Volume

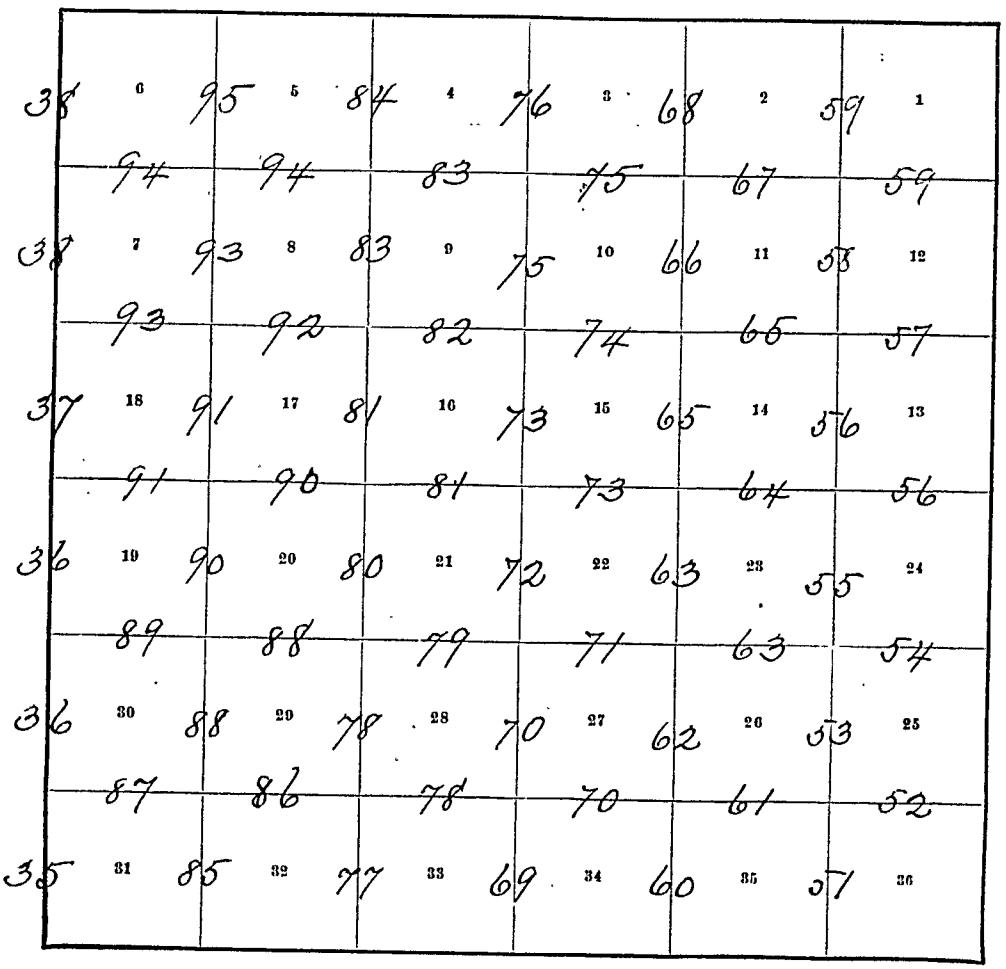
# #

R0311

BOOK A-311

INDEX DIAGRAM.

Township 4 N., *Range* 5 W.



Meanders Page.....

Ref. A-31

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

_____

_____

BOOK A-311

INDEX DIAGRAM.

Township 5 N., *Range* 5 W.

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

107 106 106 105

26 ~~24~~ 25 23 22 21

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

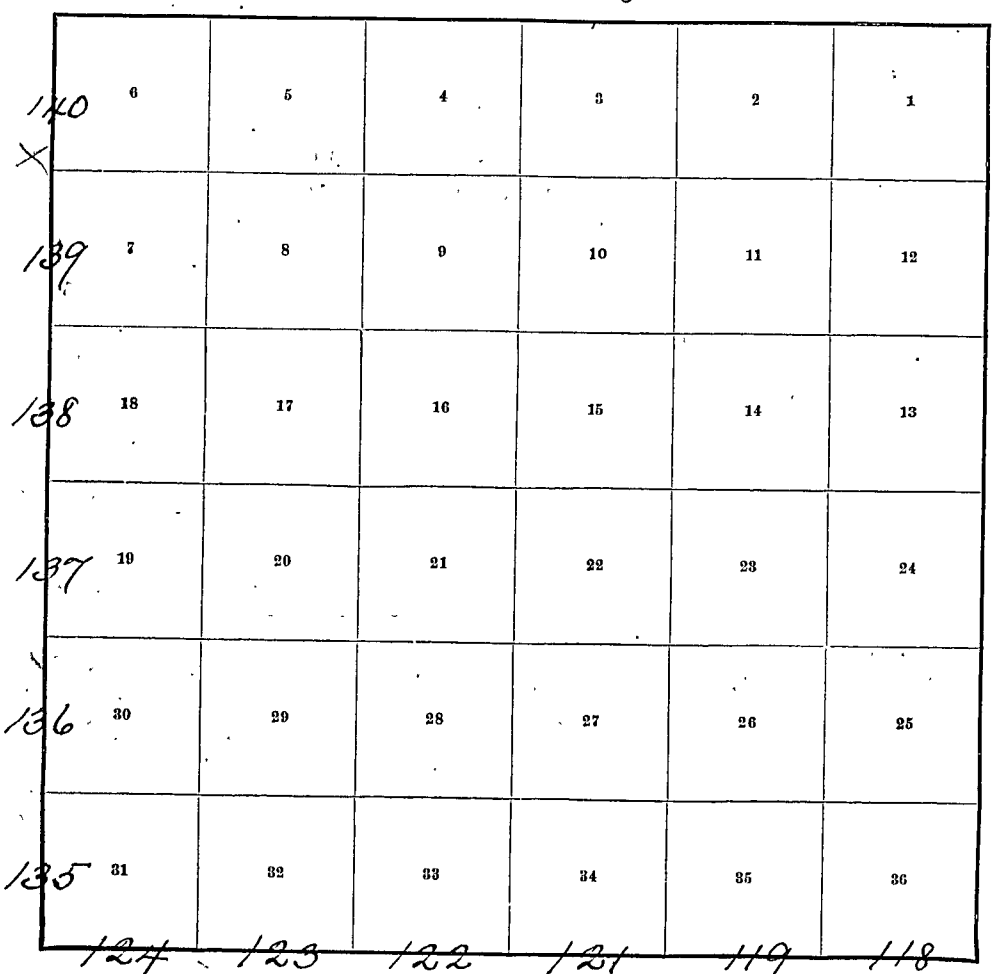
_____

_____

BOOK A-311

INDEX DIAGRAM.

Township 1 N., *Range* 8 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 may set 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 monumen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

.....

....., *Monument.*

....., *Monument.*

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.*

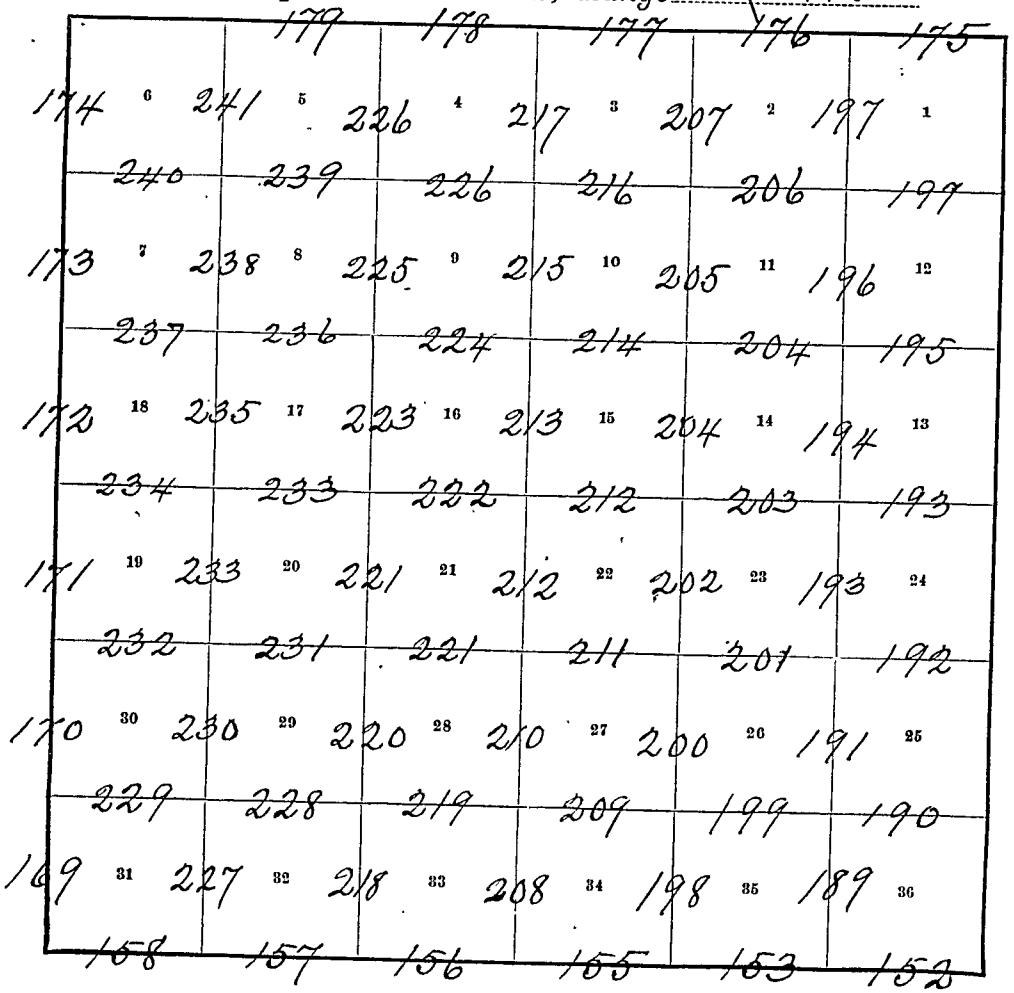
Subscribed and sworn to before me this .....
day of ....., 190

SEAL

BOOK A-311

INDEX DIAGRAM.

Township 1 N., *Range* 9 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

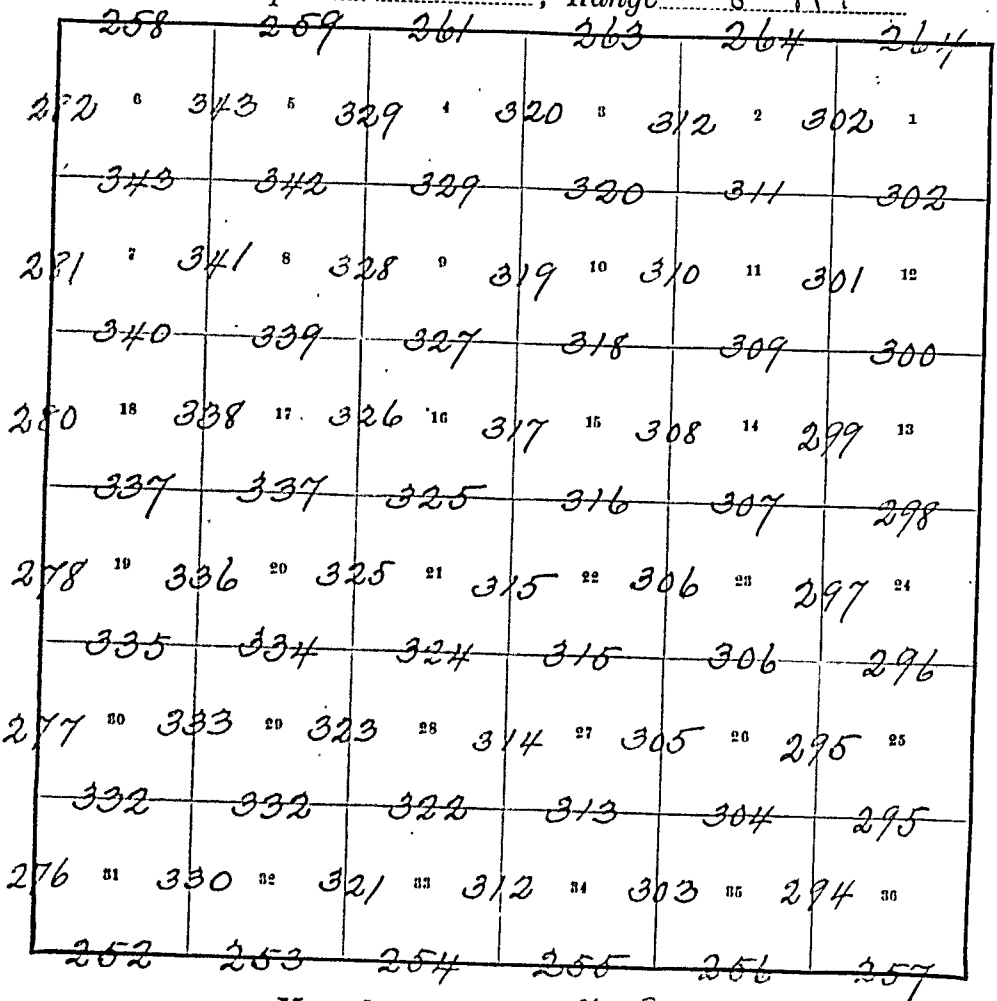
_____

_____

BOOK A-311

INDEX DIAGRAM.

Township 2 N., *Range* 8 W.



Meanders Page 347-9

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

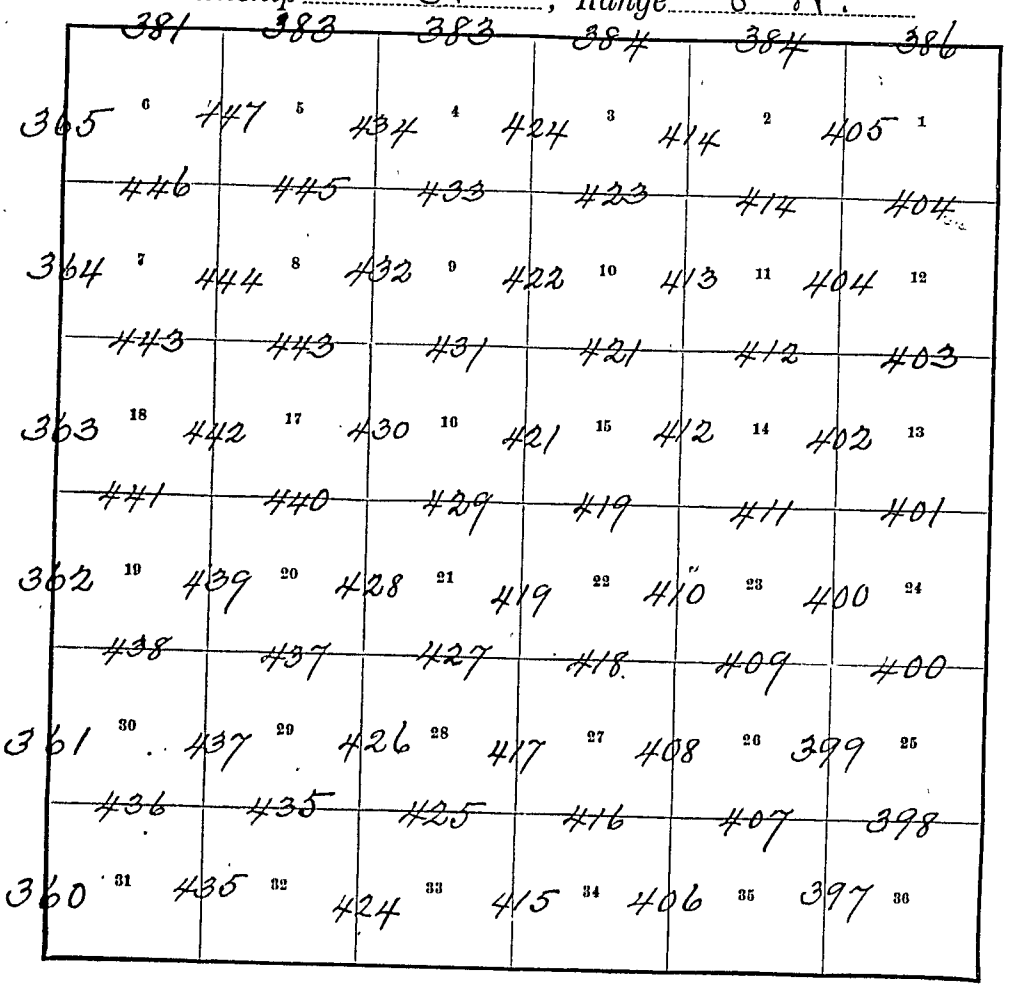
_____

_____

BOOK A-311

INDEX DIAGRAM.

Township 3 N., *Range* 8 W.



Meanders Page 449

PRELIMINARY OATHS OF ASSISTANTS.

We, ... and .....

do severally swear that we will well and faithfully execute the duties of chainmen; that we will level the ..... and plumb the tally pins, either by sticking or dropping the same; that ..... to all suitable objects, and the true lengths of all lines that we assist in ..... 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 severally 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 severally swear that we will well and truly perform the duties of axmen in the establishment of corners and bearing trees, 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 .....

....., *Flagman.*

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

.....

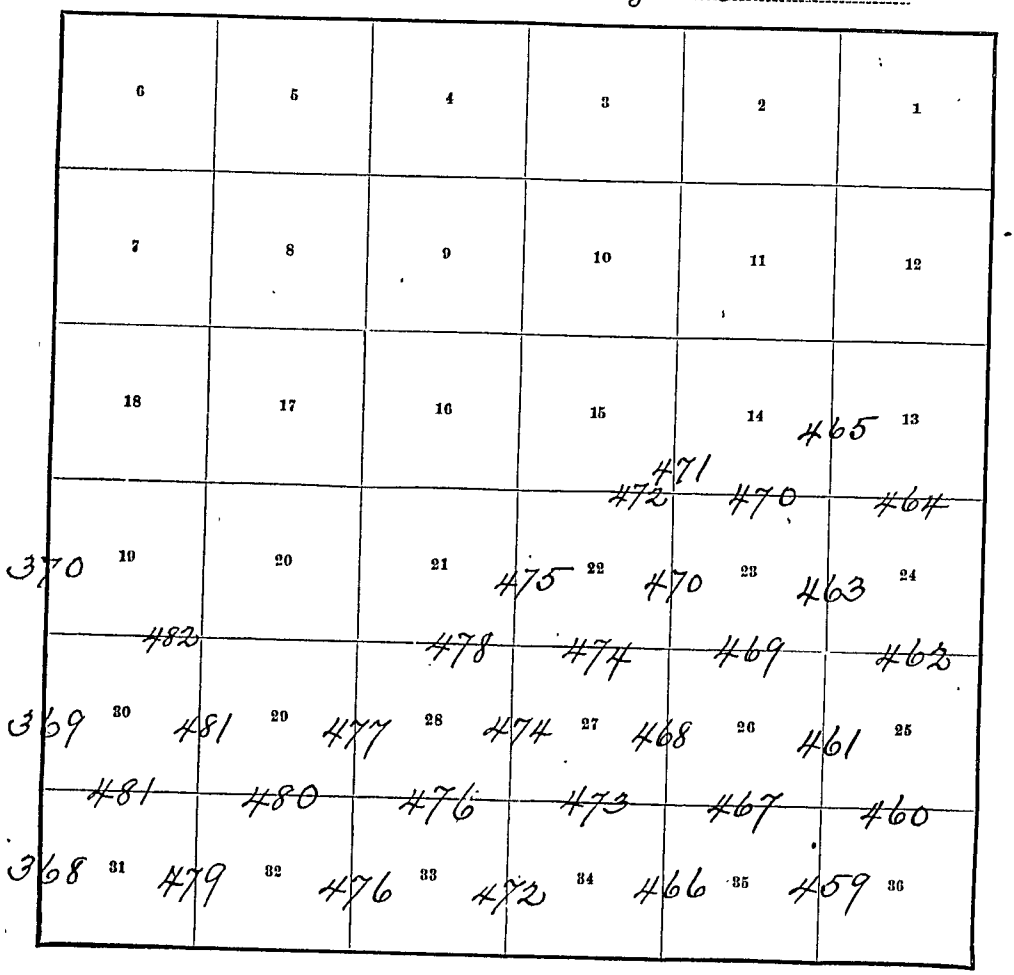
.....

SEAL

BOOK A-311

INDEX DIAGRAM.

Township 4 N. , *Range* 8 W.



Meanders Page.....

BOOK A-311

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

_____, *Axman*

_____, *Axman*

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

_____

SEAL

_____

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

_____, *Flagm*

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

_____

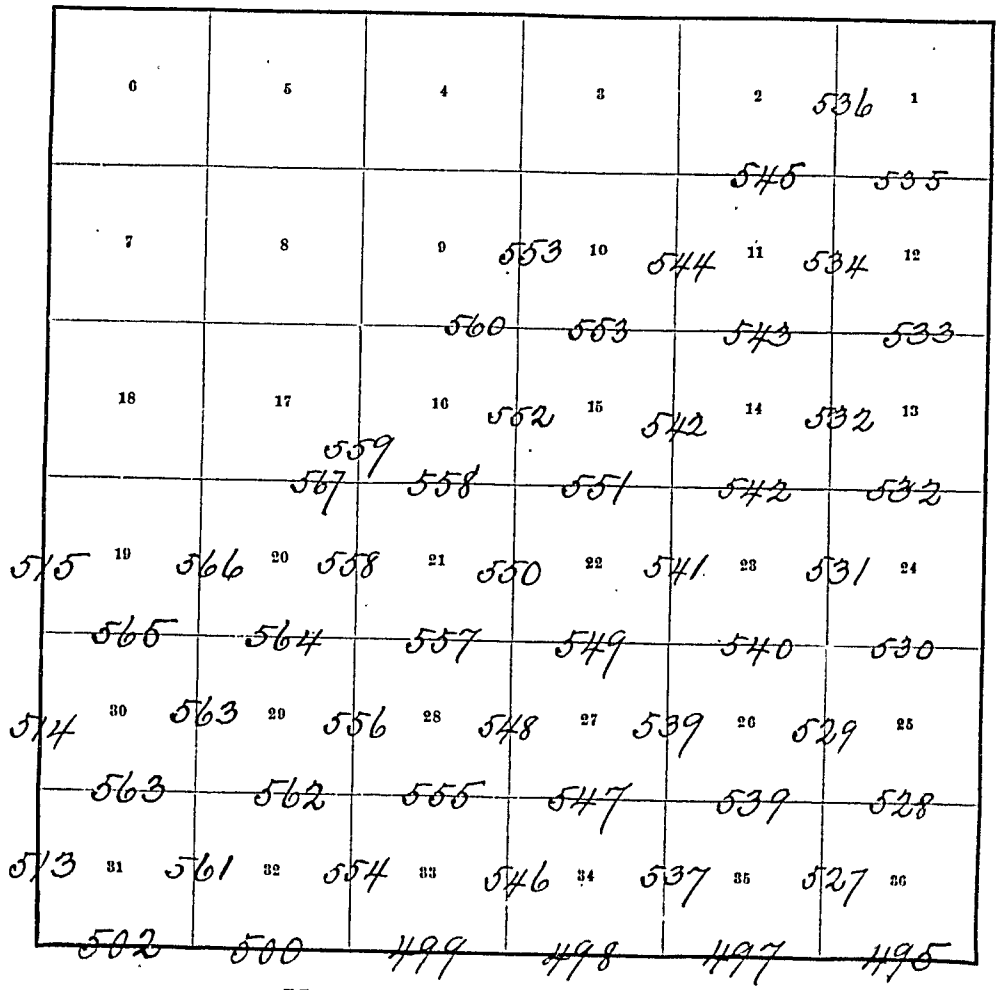
SEAL

_____

BOOK A-311

INDEX DIAGRAM.

Township 1 N., *Range* 10 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 _____, 189

_____

SEAL

_____

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

_____

_____, *Moundman.*

_____, *Moundman.*

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

_____

SEAL

_____

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

_____

_____, *Axman.*

_____, *Axman.*

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

_____

SEAL

_____

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

_____, *Flagman.*

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

_____

SEAL

_____

4—679.

E

BOOK A-31

FILED
AUG -4 1904

FIELD NOTES

OF THE SURVEY OF THE

FIRST STANDARD PARALLEL NORTH

THROUGH

RANGE NO. 5 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

James F. Trotter, *United States Deputy Surveyor,*

Under his Contract No. 273, *dated* July 22, *1903*

Survey commenced June 16, *1904*

Survey completed June 18, *1904.*

6—151

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

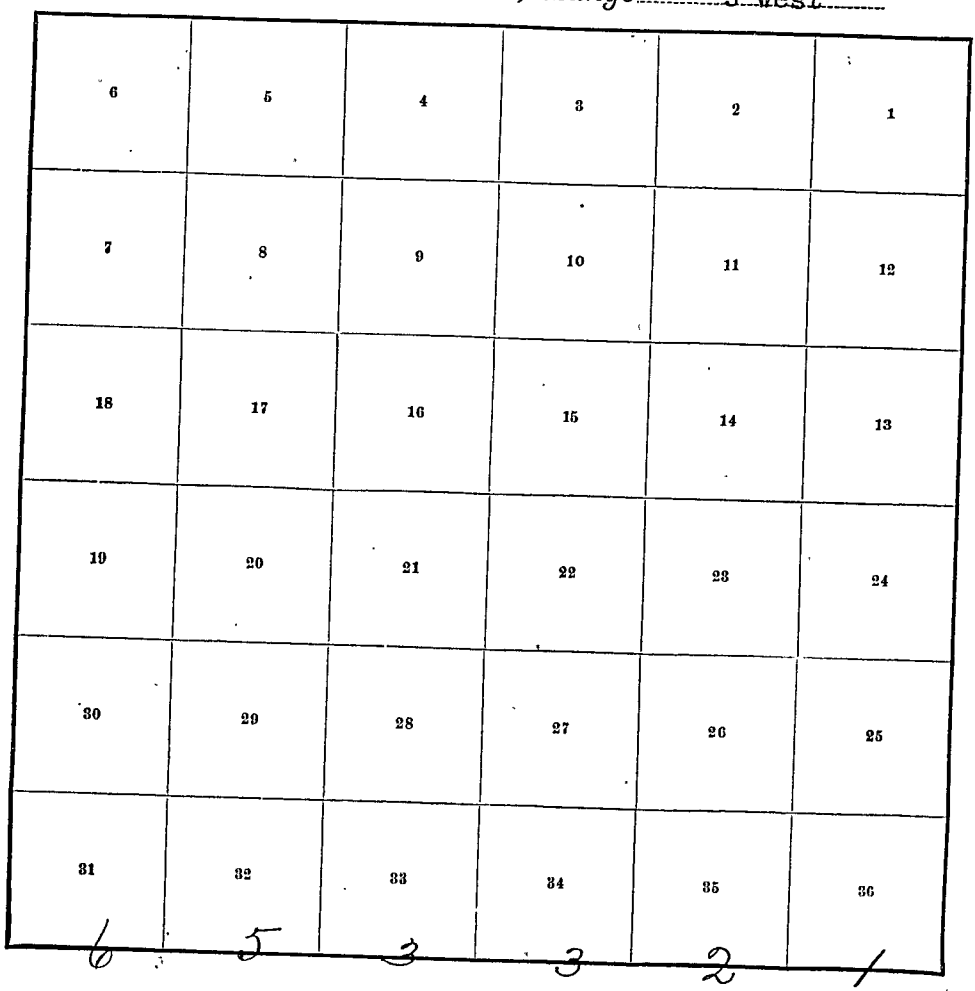
Leith Morrison	Chainman
Jay Morrison	Chainman
Foster Walker	Chainman
Lyman Judson	Chainman
Foster Walker	Moundman
Lyman Judson	Moundman
M.Brown	Flagman.

6—151

BOOK A-311

INDEX DIAGRAM.

Township 5 North, *Range* 5 West



Meanders Page

BOOK A-51

PRELIMINARY OATHS OF ASSISTANTS.

WE, Leith Morrison, Jay Morrison xxx Foster Walker and Lyman Judson 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 Range No.5 West of the Uintah Special Base and Meridian, Utah.

Leith Morrison, *Chainman.*

Jay Morrison, *Chainman.*

Subscribed and sworn to before me this 16th day of June, 1904

Foster Walker *Chainman*
Lyman Judson *Chainman*

SEAL

James F. Foster
Deputy Surveyor

WE, Foster Walker and Lyman Judson 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 First Standard Parallel North through Range No.5 West of the Uintah Special Base and Meridian, Utah.

Foster Walker, *Moundman.*

Lyman Judson, *Moundman.*

Subscribed and sworn to before me this 16th day of June, 1904

SEAL

James F. Foster
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 ....., 190 .

SEAL

I, M. Brown, 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 Range No.5 West of the Uintah Special Base and Meridian. Utah.

M Brown, *Flagman.*

Subscribed and sworn to before me this 16th day of June, 1904

SEAL

James F. Foster
Deputy Surveyor

6—151

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 5 WEST.

Survey commenced June 16,1904 and executed with a W. and L.E.Gurley light mountain transit No. ;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 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,August 20,1903.

I begin at the standard cor.of Tp.5 N.Rs.4 and 5 W., which is a sandstone 6x8x6 ins.above ground,marked and witnessed as described by Deputies Dick and Tiernan under their contract No.272;lat 40°47'N.;long.110°24'W. and at 1 h 48m.a.m.l.m.t.I observe Polaris at eastern elongation in accordance with instructions in the Manual and mark the line thus determined by a tack driven in a wooden peg set in the ground 5.00 chs.N.of my station.

At 7 h.00 m.a.m.l.m.t.I lay off the azimuth of Polaris 1°35'to the west and mark the true meridian thus determined by cutting a mark on a stone firmly set in the ground west of the point established this a.m.;the magnetic bearing of the said true meridian is N.16°35'W., which gives the magnetic declination 16°35'E.

Thence I run

West on the tangent S. of sec.36

Over mountainous land;ascending along S.E.slope.

Difference between measurements of 40.00 chs.by two sets of chainmen is 10 lks.position of middle point

By 1st set 40.05 chs.

By 2nd set 39.95 chs.;the mean of which is

40.00 N.0.21k.from the tangent,

Set a sandstone 28x14x6 ins.21 ins.in the ground,for standard, ¼ sec.cor.;marked.S.C. ¼ on N.face;and raised a mound of stones 2 ft.base 1½ ft.high N.of cor.

Pits impracticable.

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 5 WEST.

Chains.

Difference between measurements of 80.00 chs.by two sets of chainmen is 8 lks.;position of middle point

By 1st set 79.96 chs.

By 2nd set 80.04 chs.;the mean of which is

80.00 N.1 lk.from the tangent

Set a sandstone 20x8x5 ins.15 ins.in the ground,for standard cor.of secs.35 and 36;marked S C on N.,with 1 groove on E.and 5 grooves on W.face;and raise a 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.

S.29°59'W.on the tangent S.of sec.35

Over mountainous land;ascending along S.E.slope.

Difference between measurements of 40.00 chs.by two 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 N.2 lks.from the tangent,

Set a sandstone 18x6x4 ins.12 ins.in the ground,for standard ¼ sec.cor.;marked S C ¼ on N.face;and raised a mound of stones 2 ft.base 1½ ft.high N.of cor.

Pits impracticable.

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 N.3½ lks.from the tangent,

Set a sandstone 20x12x8 ins.15 ins.in the ground,for standard cor.of secs.34 and 35;marked S C on N.,with 2 grooves on E.and 4 grooves on W.face;and raise a mound of stones 2 ft.base 1½ ft.high N.of cor.Pits impracti-

FIRST STA[illegible] PARALL[illegible] NORTH THROUGH RANGE 5 WEST

Chains cable.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 80.00 chs.

June 16,1904.

June 17,1904.

S.89°58'W.on the tangent S.of sec.34

Over mountainous land;ascending along S.E.slope.

Difference between measurements of 40.00 chs.by 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 N.5½ lks.from the tangent,

Set a sandstone 14x8x5 ins.9 ins.in the ground,for standard ¼ sec.cor.;marked S C ¼ on N.face;and raised a mound of stone 2 ft.base 1½ ft.high N.of cor.

Pits impracticable.

Difference between measurements of 80.00 chs.by two sets of chainmen is 8 lks.;position of middle point

By 1st set 80.04 chs.

By 2nd set 79.96 chs.;the mean of which is

80.00 N.8 lks.from the tangent,

Set a sandstone 16x12x12 ins.11 ins.in the ground,for standard cor.of secs.33 and 34;marked S C on N.,with 3 grooves on E.and W.face;and raised a mound of stones 2 ft.base 1½ ft.high N.of cor.Pits impracticable.

Land mountainous.

Soil stony;4th rate.

No timber.

Mountainous land 80.00 chs.

S.89°58'W.on the tangent S.of sec.33

Over mountainous land;ascending along S.E.slope.

Difference between measurements of 40.00 chs.by two sets

Chains. of chainmen is 6 lks.;position of middle point

By 1st set 39.97 chs.

By 2nd set 40.03 chs.;the mean of which is

40.00 N.11 lks.from the tangent,

Set a sandstone 16x8x6 ins.11 ins.in the ground,for standard $\frac{1}{4}$ sec.cor.;marked S C $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high.N.of cor.Pits impracticable.

Difference between measurements of 44.84 chs.by two sets of chainmen is 10 lks.;position of middle point

By 1st set 44.79 chs.

By 2nd set 44.89 chs.;the mean of which is

44.84 N.12 lks.from the tangent

On top of ridge bears northeasterly and southwesterly

Intersect north boundary of Uintah Indian Reservation.

Set a sandstone 18x8x6 ins.12 ins.in the ground,for standard closing corner for Ts.4 and 5 N.R.5 W.;marked S C CUIH R 5W and 4 grooves on E.,U F R on W.face;and 4 N on S. and 5 N on N. faces; and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high E.of cor.

Pits impracticable.

From the closing corner the $33\frac{1}{2}$ mile corner on the bdy. as established by Deputies A.H.and F.M.Brown under their contract No.264,bears-S.24°15'W.19.54 chs.dist.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 44.84 chs.

June 17,1904.

June 18,1904.

From point on tangent 11 lks.S.of $\frac{1}{4}$ sec.cor.last describ d I continue S.89°58'W.on a blank line

Difference between measurements of 40.00 chs.by two sets of chainmen is 6 lks.;position of middle point

By 1st set 39.97 chs.

By 2nd set 40.03 chs.;the mean of which is

FIFTH STANDARD PARALLEL SOUTH THROUGH RANGE 5 WEST.

Chains.

40.00 To a point on tangent.

Thence I continue S.89°57'W.on a blank line, with new measurement
Difference between measurements of 50.03 chs.by two sets of chainmen is 8 lks.;position of middle point

By 1st set 49.99 chs.

By 2nd set 50.07 chs.;the mean of which is

50.03 N.19 lks.from the tangent

On top of ridge bearing northwesterly and southeasterly

Intersect north boundary of the Uintah Indian Reservation,

Set a sandstone 20x12x4 ins.15 ins.in the ground,for standard closing corner for Ts.4 and 5 N.R.5 W.;marked S C C U I R R 5 W and 2 grooves on W.;U F R on E.face;and 4 N on S. and 5 N on N. faces; and
raise a mound of stone 2 ft.base 1½ ft.high W.of cor.

From the closing corner the half-mile corner between mile posts Nos.34 and 35 on the boundary,as established by Deputies A.H.and F.M.Brown under their contract No.[illegible] bears N.77°W.80 lks.dist. [illegible] dist.

From point on tangent 19 lks.S.of closing corner last described I run

S.89°57'W.on the tangent S.of sec.32

Over mountainous land;along S.slope.

Difference between measurements of 29.97 chs. by two sets of chainmen is 4 lks.;position of middle point

By 1st set 29.99 chs.

By 2nd set 29.95 chs.;the mean of which is

29.97 N.22 lks.from the tangent

Set a sandstone 20x8x4 ins.15 ins.in the ground,for standard cor.of secs.31 and 32;marked S C on N.,with 5 grooves on E.and 1 groove on W.face;and raised a mound of stone 2 ft.base 1½ ft.high N.of cor.

Pits impracticable.

Land mountainous.

Chains.

Soil rocky;4th rate.

No timber.

Mountainous land 29.97 chs.

S.89°56'W.on the tangent S.of sec.31

Over mountainous land;ascending.

Difference between measurements of 6.35 chs.by two sets of chainmen is 2 lks.;position of middle point

By 1st set 6.36 chs.

By 2nd set 6.34 chs.;the mean of which is

6.35 N.22 lks.from the tangent,

Set a sandstone 18x12 x 4 ins.12 ins.in the ground,for standard closing corner for Ts.4 and 5 N.R.5 W.;marked U F R and 1 groove on W.; S C C Q;IRR 5 W on W.face;and 4 N on S. and 5 N on N. faces; and raise a mound of stone 2 ft.base 1½ ft.high E.of cor.

Pits impracticable.

From the closing corner the 35th mile corner on the bdy. as established by Deputies A.H.and F.M.Brown,under their contract No.264,bears N.28°30'E.0.78 chs.dist.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 6.35 chs.

June 18,1904.

June 19,1904.

For general description see notes of subdivision of Township 5 North Range 5 West.

James F. Sattler

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 James F.Trotter, 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 First Standard Parallel North through Range No.5 West of the Uintah Special Base and Meridian,Utah, showing the respective capacities in which they acted:

Leith Morrison,Chainman. Jay Morrison, *Chainman.*

Foster Walker ,Chainman. Lyman Judson, *Chainman.*

Foster Walker, *Moundman.*

Lyman Judson, *Moundman.*

[illegible], *Axman.*

, *Axman.*

M.Brown, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted James F.Trotter, United States Deputy Surveyor, in surveying all those parts or portions of the the First Standard Parallel North through Range No. 5 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.

Leith Morrison, *Chainman.*

Jay Morrison, *Chainman.*

Foster Walker, *Moundman.* Chainman

Lyman Judson, *Moundman.* Chainman

, *Axman.*

, *Axman.*

M Brown, *Flagman.*

Subscribed and sworn to before me this 4th day of Aug, 1904

James F Trotter
Ms Deputy Survey

SEAL

6-151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, James F. Trotter, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward A. Anderson United States Surveyor General for District of Utah, bearing date of the 22nd day of July, 1903 I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the First Standard Parallel North through Range No. 5 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.

James F. Trotter
United States Deputy Surveyor.

Subscribed by said James F. Trotter, and sworn to before me this 4th day of August, 1904

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, September 7, 1904

The foregoing field notes of the survey of the First Standard Parallel North through Range No. 5 West of the Uintah Special Base and Meridian, Utah,

executed by James F. Trotter under his contract No. 273, dated July 22, 1903, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward A. 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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4—679.

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BOOK A-311

FILED
AUG 4 1904

FIELD NOTES

OF THE SURVEY OF THE

WEST BOUNDARY

OF

TOWNSHIP NO. 4 NORTH

RANGE NO. 5 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH,

AS SURVEYED BY

James F. Trotter, *United States Deputy Surveyor,*

Under his Contract No. 273, *dated* July 22, 1903.

Survey commenced June 19, 1904

Survey completed June 21, 1904.

6—151

Surv. 5-17-65

Closing 18.17

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

Leith Morrison	Chainman
Jay Morrison	Chainman
W.I.Rowland	Moundman
Foster Walker	Axman
Lyman Judson	Axman
M.Brown	Flagman.

Volume
#
R0311

BOOK A-311

INDEX DIAGRAM.

Township 4 North, *Range* 5 West

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

Meanders Page

BOOK A-511

PRELIMINARY OATHS OF ASSISTANTS.

We, Leith Morrison and Jay Morrison 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 West Boundary of T.4 N.R.5 W.of the Uintah Special Base and Meridian,Utah.

Leith Morrison, Chainman.

Jay Morrison, Chainman.

Subscribed and sworn to before me this 19th day of June, 1904

SEAL

James F. Fowler
U.S. Deputy Surveyor

We, I,W.I.Rowland and ____ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the West Boundary of T.4 N.R.5 W.of the Uintah Special Base and Meridian,Utah.

W. I. Rowland, Moundman.

____, Moundman.

Subscribed and sworn to before me this 19th day of June, 1904

SEAL

James F. Fowler
U.S. Deputy Surveyor

We, Foster Walker and Lyman Judson 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 the West Boundary of T.4 N.R.5 W.of the Uintah Special Base and Meridian,Utah.

Foster Walker, Axman.

Lyman Judson, Axman.

Subscribed and sworn to before me this 19th day of June, 1904

SEAL

James F. Fowler
U.S. Deputy Surveyor

I, M.Brown, 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 West Boundary of T.4 N.R.5 W.of the Uintah Special Base and Meridian,Utah.

M. Brown, Flagman.

Subscribed and sworn to before me this 19th day of June, 1904

SEAL

James F. Fowler
U.S. Deputy Surveyor

6—151

WEST BOUNDARY T.4 N.R.5 W.

Chains.	
	Survey commenced June 19,1904,and executed with a W.and L.E.Gurley light mountain transit. 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 true meridian at Salt Lake City,found correct and was approved by the Surveyor General for Utah August 22,1903.
	At the corner of Tps.3 and 4 N.Rs.5 and 6 W.,heretofore described,lat.40°42'N.;long.110°32'W.,and at 1 h.3[illegible] m. a.m.l.m.t. I observe Polaris at eastern elongation in accordance with instructions in the Manual and mark the line thus determined by a tack driven in a wooden peg. set in the ground 5.00 chs.N.of my station.
	At 7 h.20 m.a.m.l.m.t.I lay off the azimuth of Polaris 1°36'to the west and mark the true meridian thus determined by cutting a mark on a stone firmly set in the ground west of the point established this a.m.; The magnetic bearing of the true meridian is N.16°20'W. which gives the magnetic declination 16°20'E.
	Thence I run
	North bet.secs.31 and 36
	Over mountainous land,large boulders and slide rock; descending abruptly..
32.00	Descend less abruptly.
40.00	Set a sandstone 18x8x6 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits.impracticable.
	Thence along W.slope of mountain;over heavy sandstone boulders and heavy slide rock;ascending.
80.00	Set a sandstone 14x14x7 ins.9 ins.in the ground for cor. of secs.25,30,31,and 36,marked 1 notch on S.and 5 notches on N.edges;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits. impracticable.

WEST BOUNDARY T.4 N.R.5 W.

Chains.	
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 80.00 chs.

North bet.secs.25 and 30

	Over mountainous land,sandstone ledges and heavy slide rock.
	Descending gradually over the W.slope of mountain.
21.00	Begin steep ascent.
24.00	Top of small spur projecting westerly.
	Thence gradual descent.
40.00	Set a sandstone 16x12x7 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
80.00	Set a sandstone 14x14x7 ins.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.edges;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.

June 20,1904.

June 21,1904.

North bet.secs.19 and 24

	Over mountainous land;ascending over heavy slide rock and low cliffs.
40.00	Set a sandstone 20x12x8 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.

WEST BOUNDARY T.4 N.R.5 W.

Chains.	
	Continue steep ascent,over high cliffs and over heavy slide rock.
80.00	Set a sandstone 26x7x7 ins.20 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 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 80.00 chs.

North bet.secs.13 and 18

	Over mountainous land;ascending over steep high cliffs.
17.00	Top of spur projects westerly.
	Thence along W.slope of mountain.
40.00	Set a sandstone 26x10x10 ins.20 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.
	Thence descend over heavy slide rock,over high cliffs.
80.00	Set a sandstone 20x12x12 ins.15 ins.in the grounddfor cor.of secs.7,12,13,and 18,marked witn 4 notches on S. and 2 notches on N.edges;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.

WEST BOUNDARY T.4 N.R.5 W.

Chains.	
	North bet.secs.7 and 12
	Along W.slope of mountain ;descending abruptly.
33.00	Bottom of mountain;thence ascend gradually.
40.00	Set a sandstone 22x14x5 ins.16 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.
	Pits impracticable.
	Continue gradual ascent.
48.00	Begin steep ascent over heavy slide rock.
80.00	Set a sandstone 20x20x8 ins;15 ins.in the ground for co of secs.1,6,7 and 12,marked with 5 notches on S.and 1 notch on N.edges;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 80.00 chs.

	North bet.secs.1 and 6
	Ascending over mountainous land
7.65	Intersect North Boundary of Uintah Indian Reservation on top of dividing ridge,
	Set a sandstone 24x8x6 ins.18 ins.in the ground for closing corner for Tp.4 N.Rs.5 and 6 W.;marked C C 4 N I R with 5 grooves on S.;U F R on N;6 grooves and 5 W. on E; 6 grooves and 6 W. on W.faces;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft. high S.of cor.Pits impracticable.
	From the closing corner;angle corner on the 37th mile on the boundary as established by Deputies A.H.and F.M.Brown under their contract No.264 bears N.60°E.4.17 chs.;thence N.47°15'E.

WEST BOUNDARY T.4 N.R.5 W.

Chains.

14.00 chs., to 36 mile corner:

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 7.65 chs.

GENERAL DESCRIPTION.

For general description see subdivision of this township.

James F. Salter

U.S.Deputy Surveyor.

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BOUNDARIES OF T.4 N.R.5 W.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Line Designated	True Bearing	Dist.	Latitudes		Departures	
			N.	S.	E.	
		chs.	chs.	chs.	chs.	c
First Guide Mer.W.	South	480.00	.....	480.00	.....	...
S.Bdy.T.4 N.R.5 W.	W.89°56'W.	474.46	56	.....	.....	474
W.Bdy.T.4 N.R.5 W.	North	407.65	407.65	.....	.....	...
N.Bdy.Uintah Ind.Res.	N.60°E.	4.17	2.08	.....	3.61	...
	N.47°15'E.	61.00	41.41	.....	44.79	....
	N.28°30'E.	32.22	28.32	.....	15.37	....
1st.St.Par.N.	East	36.32	.....	.....	36.32	....
N.Bdy.Uintah Ind.Res.	S.77°E.	79.20	.....	17.82	77.17	....
	N.24°15'E.	19.54	17.82		8.02	
1st.St.Par.N.	East	289.00	.....	.....	289.00	....
Convergency.			.....	.....	0.62	
Totals			497.84	497.82	474.90	474.
			497.82		474.46	
Error in lat.and dep.			.02		.44	

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BOOK A-311

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by James F.Trotter, 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 Boundary of T.4 N.R.5 W.of the Uintah Special Base and Meridian,Utah, showing the respective capacities in which they acted:

Leith Morrison, *Chainman.*

Jay Morrison, *Chainman.*

W.I:Rowland, *Moundman.*

, *Moundman.*

Foster Walker, *Axman.*

Lyman Judson, *Axman.*

M.Brown, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted James F.Trotter, United States Deputy Surveyor, in surveying all those parts or portions of the West Boundary of T.4 N.R.5 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.

Leith Morrison, *Chainman.*

Jay Morrison, *Chainman.*

W. I. Rowland, *Moundman.*

Foster Walker, ~~*Moundman.*~~ *axman*

Lyman Judson, *Axman.*

, *Axman.*

M Brown, *Flagman.*

Subscribed and sworn to before me this 4th day of Aug, 1904

SEAL

James F. Trotter
U.S. Deputy Surveyor

6—151

BOOK A-3 I

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, James F Trotter, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H Anderson United States Surveyor General for District of Utah, bearing date of the 22nd day of July, 1903, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the West Boundary of T.4 N.R.5 W. of the Uintah Special Base and Meridian

~~XXXX~~

~~XXXXXXX~~ 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.

James F Trotter
United States Deputy Surveyor.

Subscribed by said James F Trotter, and sworn to before me this 4th 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, September 7 1904

The foregoing field notes of the survey of the West Boundary of Township No.4 Nor North, Range No.5 West of the Uintah Special Base and Meridian, Utah,

executed by James F.Trotter under his contract No. 273, dated July 22, 1903, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H Anderson
United States Surveyor General.

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

_____
United States Surveyor General.

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BOOK A-311

FIELD NOTES

OF THE SURVEY OF THE

W.H.

SUBDIVISION

OF

TOWNSHIP NO. 4 NORTH

RANGE NO. 5 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

James F. Trotter, *United States Deputy Surveyor,*

Under his Contract No. 273, *dated* July 22, *1903*

Survey commenced June 23, *1904*

Survey completed July 14, *1904.*

6—151

high 59-38.97 ✓

clay 33.14 ✓

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

Leith Morrison	Chainman
Jay Morrison	Chainman
W.I.Rowland	Moundman
John Graham	Axman
Foster Walker	Axman
M.Brown	Flagman

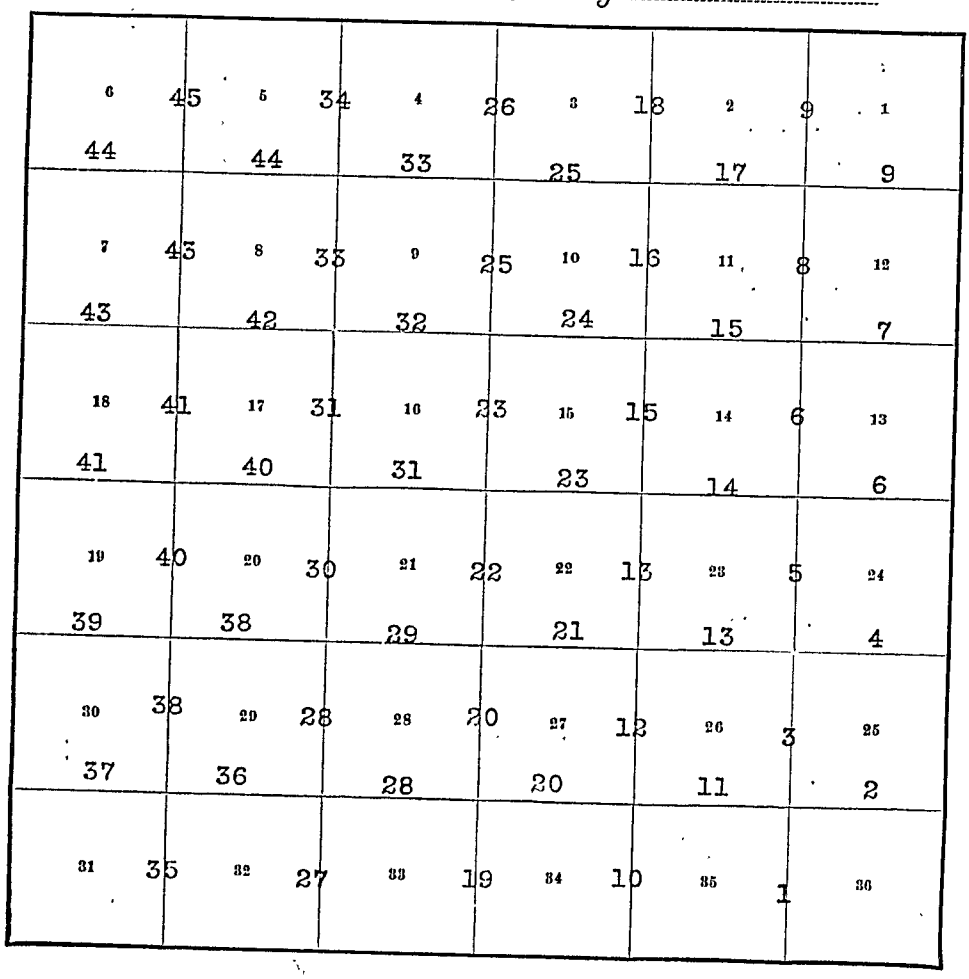
6—151

Volume
#
R0311

BOOK A-311

INDEX DIAGRAM.

Township 4 North, *Range* 5 West



Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Leith Morrison and Jay Morrison 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 Subdivisional lines of T.4 N.R.5 W.of the Uintah Special Base and Meridian,Utah.

Leith Morrison, Chainman.
Jay Morrison, Chainman.

Subscribed and sworn to before me this 23rd day of June, 1904

SEAL

James F. Trotter
U.S. Deputy

~~We,~~ I.W.I.Rowland 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 ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the Subdivisional lines of T.4 N.R.5 W.of the Uintah Special Base and Meridian,Utah.

W. I. Rowland, Moundman.
, Moundman.

Subscribed and sworn to before me this 23rd day of June, 1904

SEAL

James F. Trotter
U.S. Deputy Sr

We, John Graham and Foster Walker 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 the Subdivisional lines of T.4 N.R.5 W.of the Uintah Special Base and Meridian,Utah.

John Graham, Axman.
Foster Walker, Axman.

Subscribed and sworn to before me this 23rd day of June, 1904

SEAL

James F. Trotter
U.S. Deputy Survey

I, M.Brown, 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 Subdivisional lines of T.4 N.R.5 W.of the Uintah Spedial Base and Meridian,Utah.

M. Brown, Flagman.

Subscribed and sworn to before me this 23rd day of June, 1904

SEAL

James F. Trotter
U.S. Deputy Sr

6—P1

SUBDIVISION OF T. 4 N., R. 5 W.

Chains.	
	Survey commenced June 23, 1904, and executed with a W. and L.E.Gurley light mountain transit.No. ;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, August 20, 1903.
	I begin at the cor. of secs.1,2,35, and 36 on the S.bdy. of the Tp., set by me, and heretofore described; lat.40°42'N. long.110°26'W..and at 1h.24m.a.m.,l.m.t.I observe Polaris at eastern elongation in accordance with instructions in the Manual and mark the line thus determined by a tack driven in a wooden peg set in the ground five chains north of my station.
	At 6h.30m.a.m.l.m.t.I lay off the azimuth of Polaris 1°35' to the west and mark the true meridian thus determined by cutting a mark on a stone firmly set in the ground west of the point established this a.m.;the magnetic bearing of said true meridian is N.16°35'W.,which gives the magnetic declination 16°35'E.
	Thence I run N.0°01'E. bet.secs.35 and 36.
	Over mountainous land;descending abruptly over large boulde and slide rock.
10.00	Small draw drains S.W.;thence ascend gradually.
30.00	Point of spur projects S.W.
	Descend abruptly over slide rock and large boulders.
40.00	Set a sandstone,22x10x8 ins.16 ins.in the ground,for ¼ sec. cor.,marked ¼ on W.face,and raise a mound of stones, 2 ft.base,1½ft.high,W. of cor. Pits impracticable.
51.00	Enter dense timber,pine and aspen,bears N.E.and S.W.
	Descend gently.
70.00	S.end of lake,area about 10 acres.
	To ascertain distance across lake, I offset as follows E. 3 chs.thence N.0°01'W.10 chs.;thence W.2 chs.to E. side of lake.

SUBDIVISION OF T. 4 N., R. 5 W.

Chains

80.00 Point for corner to secs.25,26,35,and 36,falls in lake and cannot be set. Witness corners set on line bet.secs. 25 and 26, and 25 and 36.

Land, mountainous.

Soil, rocky 4th rate.

Timber pine aspen 29.00 chs.

Mountainous land or land covered with dense timber 80.00c s

From a point 1 chain E.of the point for cor.of secs.25,26, 35,and 36 on E.edge of lake I run

S.89°56'E.on a random line bet.secs.25 and 36. Measurement counted from true point for cor.secs.25,26,35 & 36

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

80.11 Intersect E.bdy.of Tp.14 lks.S.of the cor.of secs.25,30, 31,and 36,which is a sandstone 10x8x6 ins.above ground firmly set and marked and witnessed as described by Deputies J.C.Dick and Austin K.Tiernan under their contract No.272;thence I run

S.89°58'W.on a true line bet.secs.25 and 36.

Over mountainous land;descending over large sandstone boulders and heavy slide rock;along N.slope of ridge.

27.00 Descend abruptly.

40.05 Set a sandstone,14x12x7 ins.,9 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone,2 ft.base,1$\frac{1}{2}$ ft.high,N.of cor.Pits impracticable.

53.00 Begin steep descent over heavy slide rock.

65.00 Descend gradually; enter pine timber.

79.11 E.edge of lake covering about 10 acres bears N.and S. Set a sandstone,16x10x6 ins.,10 in.in the ground,for witness cor.to secs.25,26,35,and 36,marked W C on NE.face,with notch on S.and E.edges;and raise a mound of stone,2 ft. ase,1$\frac{1}{2}$ ft.high,W.of cor. Pits impracticable.

80.11 oint for cor.of secs.25,26,35,and 36. cor.not set.

Land, mountainous.

Soil,rocky;4th rate.

SUBDIVISION OF T.4 N.R.5 W.

Chains	Timber, pine. Mountainous land 80.11 chs.
	From point 1 chain N.89°58'E.of point for cor.of secs. 25,26,35,and 36,on E.edge of lake,I run N.0°01'W.on offset line 1 chain;thence S.89°58'W.1 chain to line between secs.25 and 26,and at
1.00	Set a sandstone 15x8x6 ins.10 ins.in the ground for witness corner to corner of secs.25,26,35 and 36,which I mark W C on N.E.face,with 1 notch on S.and E.edge;from which
	A pine 10 ins.diam.bears S.66°30'W.25 lks.dist. marked W C T 4 N R 5 W S 26 B T
	A pine 8 ins.diam.brs.S.31°45'E.40 lks.dist. marked W C T 4 N R 5 W S 25 B T
	No other bearing trees available;raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.Thence I run: N.0°01'W.bet.secs. 25 and 26.
4.00	Enter dense pine timber;ascend abruptly.
27.00	Top of ascent;thence descend.
30.24	Bottom of creek,5 lks.wide,drains southwesterly. Ascend.
40.00	Set a sandstone 18x12x8 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 14 ins.diam.bears N.70°E.15 lks.dist. marked ¼ S 25 B T
	A pine 12 ins.diam.bears N.76°W.30 lks.dist. marked ¼ S 26 B T
	Corner on spur projects S.W.;descend.
60.00	Head of draw drains S.W.;ascend gradually.
75.00	Leave timber bears S.E.and N.W. Top of spur projects S.W.;descend.
78.50	Descend abruptly.
80.00	Set a sandstone 14x6x6 ins.9 ins.in the ground for cor.

CHAINS	
	of secs.23,24,25 and 26;marked with 2 notches on S.and 1 notch on E.edge;and raise a mound of stones 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky 4th rate.
	Timber pine 71.00 chs.
	Mountainous land 80.00 chs.
	June 23,1904.

June 24,1904.

N.89°58'E.on a random line bet.secs.24 and 25

40.00	Set temp.¼ sec.cor.
80.08	Intersect E.bdy.of Tp.7 lks.N.of cor.of secs.19,24,25 and 30,which is a sandstone 10x8x4 ins.above ground, firmly set and marked and witnessed as described by Deputies J.C.Dick and Austin K.Tiernan,under their contract No.272.
	Thence I run
	N.89°59'W.on true line bet.secs.24 and 25
	Over mountainous land.
	Descend over steep mountain.
20.00	Enter dense pine timber.
40.04	Set a sandstone 18x12x12 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 24 ins.diam.bears S.5°E.29 lks.dist. marked ¼ S 25 B T
	A pine 10 ins.diam.bears N.4°E.24 lks.dist. marked ¼ S 24 B T
50.05	Descend over cliff 40 ft.high;leave timber.
79.00	Begin gradual descent.
80.08	The cor.to secs.23,24,25,and 26.
	Land mountainous.
	Soil rocky 4th rate.

SUBDIVISION OF T.4 N.R.5 W.

CHAINS	
	Timber pine 30.05 chs.
	Mountainous land 80.08 chs.
	N.0°01'W.bet.secs.23 and 24.
	Over mountainous land,descending.
1.50	Creek 10 lks.wide,drains S.10°W.
	Thence ascend gradually.
5.00	Enter dense pine timber bears N.E.and S.W.
14.00	Top of ridge bears N.E.and S.W.
	Thence along W.slope of ridge.
40.00	Set a sandstone 14x12x8 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 14.ins.diam.bears S.62°E.31 lks.dist. marked ¼ S 24 B T
	A pine 8 ins.diam.bears N.70°W.13 lks.dist. marked ¼ S 23 B T
80.00	Set a sandstone 14x8x6 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 12 ins.diam.bears S.49°W.25 lks.dist. marked T 4 N R 5 W S 23 B T
	A pine 10 ins.diam.bears N.63°W.32 lks.dist. marked T 4 N R 5 W S 14 B T
	A pine 12 ins.diam.bears N.59°E.37 lks.dist. marked T 4 N R 5 W S 13 B T
	A pine 14 ins.diam.bears S.74°E.36 lks.dist. marked T 4 N R 5 W S 24 B T
	Land mountainous.
	Soil rocky 4th rate.
	Timber pine 75.00 chs.
	Mountainous land 80.00 chs.
	S.89°59'E.on a random line bet.secs.13 and 24

SUBDIVISIONS OF T.4 N.R.5 W.

CHAINS

40.00 Set temp.¼ sec.cor.

80.12 Intersect E.bdy.of Tp.13 lks.N.of cor.of secs.13,18,19, and 24,which is a sandstone 10x6x5 ins.above ground, firmly set and marked and witnessed as described by Deputies J.C.Dick and Austin K.Tiernan,under their contract No.272.Thence I run

N.89°54'W.on a true line bet.secs.13 and 24

Over mountainous land;descending over large boulders and heavy slide rock and over steep mountain.

15.00 Enter heavy timber bears N.and S.

22.00 Head of gulch drains S.W.

40.06 Set a sandstone 16x12x8 ins.11 ins.inthe ground for ¼ sec.cor.,marked ¼ on N.face;from which

A pine 14 ins.diam.bears S.14°W.81 lks.dist. marked ¼ S 24 B T

A pine 16 ins.diam.bears N.76°40'E.105 lks.dist. marked ¼ S 13 B T

49.00 Small ridge bears N.E.and S.W.

Thence descend gradually.

56.00 Perpendicular cliff 40 ft.high bears N.E.and S.W.

71.00 Gradual descent.

80.12 Cor.to secs.13,14,23,and 24.

Land mountainous.

Soil rocky;4th rate.

Timber pine 65.12 chs.

Mountainous land 80.12 chs.

June 24,1904.

June 25,1904.

N.0°01'W.bet.secs.13 and 14

Descending gradually over mountainous land;through pine timber and over sandstone boulders.

26.65 Creek 5 lks.wide,drains S.W.

28.30 Creek 8 lks.wide,drains S.W.

38.50 Creek 15 lks.wide drains S.15°W.

SUBDIVISION OF T.4 N.R.5 W.

Chains.	
40.00	Set a sandstone 16x8x6 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.
	A pine 16 ins.diam.bears N.61°E.36 lks.dist. marked ¼ S 13 B T
	No other bearing trees available.
	Thence ascend gradually.
60.00	Leave timber;ascend abruptly.
80.00	Set a sandstone 16x12x8 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;and raise a mound of stones 2 ft. base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil 4th rate,rocky.
	Timber pine 60.00 chs.
	Mountainous land 80.00 chs.
	S.89°54'E.on a random line bet.secs.12 and 13
40.00	Set temp.¼ sec.cor.
80.09	Intersect E.bdy.of Tp.5 lks.S.of cor.of secs.7,12,13 and 18,which is a sandstone 8x8x5 ins.above ground,firmly set and marked and witnessed as described by Deputies J C.Dick and Austin K.Tiernan,under their contract No.272
	Thence I run
	N.89°56'W.on a true line bet.secs.12 and 13
	Ascend over mountainous land,over huge boulders and heavy slide rock.
11.00	Top of spur ridge bears N.E.and S.W.;descend.
40.04½	Set a sandstone 16x10x6 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face,and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
49.00	Creek 5 lks.wide,drains southwesterly.
61.00	Ascend gradually over small ledges.

SUBDIVISION OF T.4 N.R 5 W

CHAINS	
80.09	The cor.of secs.11,12,13,and 14.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 80.09 chs.

N.0°01'W.bet.secs.11 and 12

Ascending over mountainous land.

15.00 Enter heavy slide rock

40.00 Set a sandstone 22x14x12 ins.17 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

Ascend abruptly over rugged mountain.

60.00 Enter pine timber bears E.and W.

80.00 Set a sandstone 18x18x7 ins.13 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;from which

A pine 14 ins.diam.bears N.25°W.17 lks.dist.
marked T 4 N R 5 W S 2 B T

A pine 10 ins.diam.bears S.20°E.42 lks.dist.
marked T 4 N R 5 W S 12 B T

A pine 6 ins.diam.bears N.64°E.10 lks.dist.
marked T 4 N R 5 W S 1 B T

A pine 12 ins.diam.bears S.28°W.91 lks.dist.
marked T 4 N R 5 W S 11 B T

Land mountainous.

Soil rocky;4th rate.

Timber pine 20.00 chs.

Mountainous land 80.00 chs.

June 25,1904.

SUBDIVISION OF T.4 N.R.5 W.

CHAINS	
	June 26,1904.
	S.89°56'E.on a random line bet.sec.1 and 12
40.00	Set temp.¼ sec.cor.
80.06	Intersect E.bdy.of Tp.9 lks.S.of cor.of secs.1,6,7,and 12,which is a sandstone 8x8x6 ins.above ground,firmly set and marked and witnessed as described by Deputies J.C.Dick and Austin K.Tiernan,under their Contract No. 272.
	Thence I run
	West on a true line bet.secs.1 and 12
	Over mountainous land;descending abruptly over a mountain about 1000 ft.high.
20.00	Foot of steep descent.
40.03	Set a sandstone 12x8x6 ins.8 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.
50.00	Creek 5 lks.wide,drains S.W.
	Ascend gently over huge boulders and slide rock.
68.00	Enter pine timber bears N.and S.
80.06	The cor.to secs.1,2,11,and 12.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 12.06 chs.
	Mountainous land 80.06 chs.
	N.0°01'W.bet.secs.1 and 2
	Ascending over mountainous land
23.11	Spring branch 2 lks.wide drains.S.E.
35.11	Leave scattering pine timber.
40.00	Set a sandstone 12x12x7 ins.8 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
40.30	Spring branch 2 lks.wide drains S.W.

SUBDIVISIONS OF T.4 N.R.5 W.

CHAINS	
80.11	Intersect First Standard Parallel North 4.25 chs.E.of standard cor.of secs.35 and 36,heretofore described, Set a sandstone 26x20x12 ins.19 ins.in the ground for closing corner for secs.1 and 2,marked C C on S,1 groove on E.and 5 grooves on W.face;and raise a mound of stone 2 ft.base 1½ ft.high S.of cor.Pits impracticable. Land mountainous. Soil rocky;4th rate. Timber scattering pine 35.11 chs. Mountainous land 80.11 chs.

From the cor.of secs.2,3,34,and 35 on S.bdy.of Tp.set by me and heretofore described I run

N.0°02'W.bet.secs.34 and 35

6.00	Over mountainous land;through dense live,and fallen pine timber;descending.
32.50	Creek 5 lks.wide drains westerly; Ascend.
36.50	Point of spur projects S.W. Descend.
40.00	Set a sandstone 14x8x6 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which A pine 13 ins.diam.bears N.25°W.3 lks.dist. marked ¼ S 34 B T A pine 10 ins.diam.bears N.55°E.7 lks.dist. marked ¼ S 35 B T
41.00	Small creek 5 lks.wide,drains S.W. Ascend.
46.50	Top of spur projecting southwesterly. Descend.
70.00	Bottom of Lake Fork Creek Canon.
73.50	Lake Fork Creek,18 lks.wide,drains S.10°W.

SUBDIVISIONS OF T. 4 N., R. 5 W.

Chains	
74.00	Ascend along W.slope of Lake Fork Creek Canon.
	Leave timber bears NE.and SW..
80.00	Set a sandstone,16x10x4 ins.;11 ins.in the ground,for cor. of secs.26,27,34,and 35,marked with 2 notches on E.and 1 notch on S.edges;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 74.00 chs.
	Mountainous land 80.00 chs.
	June 26,1903.
	S.89°56'E.on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
79.00	West edge of lake bears N.and S.;thence on offset line N. 0°01'W.,1 ch.;thence E., 1.04 chs.
80.04	Intersect N.and S.line,7 lks.S.of witness corner to secs. 25,26,35,and 36, Thence I run N.89°59'W.,1.04 chs.;thence S.0°01'E.,1 ch.;thence N.89° 59'W.on true line bet.secs.26 and 35.
	Over mountainous land;ascending.
6.00	Enter dense pine timber,bears N.E.and S.W.
16.00	Top of ridge,bears N.E.and S.W.
	Descend along N.slope of ridge.
40.02	Set a sandstone,14x8x6 ins.,9 ins.in the ground,for ¼ sec. cor.,marked ¼ on N.face;from which
	A pine,8 ins.diam.,bears N.25°W.,10 lks.dist., marked ¼ S 26 B T.
	A pine, 8 ins.diam.bears S.6°E.,12 lks.dist., marked ¼ S 35 B T.
71.40	Lake Fork Creek,30 lks.wide,drains southwesterly.
76.00	Small creek,4 lks. wide,drains southeasterly.
	Ascend.
	Leave timber,bears NE.and S.W.
80.04	The cor.of secs.26,27,34,and 35.

SUBDIVISIONS OF T.4 S.,R.5 W.

Chains	
	Land,mountainous.
	Soil,rocky;4th rate.
	Timber,pine 70.00 chs.
	Mountainous land 80.04 chs.

N.0°02'W.bet.secs.26 and 27.

	Ascend over mountainous land,large boulders and slide rock.
10.00	Enter dense pine timber;continue ascent along E.slope. of Lake Fork Creek Canon.
40.00	Set a sandstone,14x10x8 ins.,9 ins.in the ground,for ¼ sec. cor.,marked ¼ on W.face;from which A pine,9 ins.diam.,bears S.44°E.,8 lks.dist., marked ¼ S 26 B T. A pine, 10 ins.diam.,bears S.37°W.,30 lks.dist.. marked ¼ S 27 B T.
48.30	Ascend abruptly over ledges.
50.00	Ascend less abruptly.
80.00	Set a sandstone,14x10x10 ins.,9 ins.in the ground,for cor.to secs.22,23,26, and 27,marked with 2 notches on E. and 2 notches on S. edges;from which A pine,10 ins.diam.,bears N.63°W.,70 lks.dist., marked T 4 N R 5 W S 22 B T. A pine,12 ins.diam.,bears N.32°E.,50 lks.dist., marked T 4 N R 5 W S 23 B T. A pine,12 ins.diam.,bears S.15°E.,50 lks.dist., marked T 4 N R 5 W S 26 B T. A pine,12 ins.diam.,bears S.69°W.,108 lks.dist., marked T 4 N R 5 W S 27 B T.
	Land, mountainous.
	Soil,rocky;4th rate.
	Timber,pine 70.00 chs.
	Mountainous land 80.00 chs.

S.89°59'E.on a random line bet.secs.23 and 26.

SUBDIVISION OF T.4 N.R.5 W.

CHAINS	
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.06	Intersect N.and S.line 17 lks.N.of cor.of secs.23,24,25 and 26.Thence I run
	✓N.89°52'W.on a true line bet.secs.23 and 26
	Over mountainous land descending.
.75	Creek 10 lks.wide drains southwesterly.
	Ascend gradually
3.00	Top of ridge bears N.E.and S.W.;thence descend gradually.
6.20	Begin steep descent;through dense pine timber.
36.50	Lake Fork Creek 15 lks.wide,drains southwesterly.
	Thence ascend gradually.
40.03	Set a sandstone 14x8x6 ins.9 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	A pine 16 ins.diam.bears S.70°W.50 lks.dist. marked $\frac{1}{4}$ S 26 B T
	A pine 8 ins.diam.bears N.40°W.32 lks.dist. marked $\frac{1}{4}$ S 23 B T
55.30	Begin steep ascent;over heavy slide rock.
70.20	Cliff 20 ft.high.
80.06	The cor.to secs.22,23,26,and 27.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 73.86 chs.
	Mountainous land 80.06 chs.
	June 27,1903.

June 28,1903.

N.0°02'W.bet.secs.22 and 23,

Over mountainous land;through dense live and dead fallen pine timber.

26.50	Descend abruptly.
40.00	Set a sandstone 15x9x7 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which

SUBDIVISION OF T.4 N.R.5 W.

CHAINS

A pine 8 ins.diam.bears N.66°W.15 lks.dist.
marked $\frac{1}{4}$ S 22 B T
A pine 12 ins.diam.bears S.67°E.24 lks.dist.
marked $\frac{1}{4}$ S 23 B T

Thence ascend gradually.

44.00 Point of spur projects E.

Descend gradually.

48.00 Head of hollow drains easterly;ascend.

80.00 Set a sandstone 12x8x8 ins.8 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 14 ins.diam.bears N.26°W.103 lks.dist.
marked T 4 N R 5 W S 15 B T
A pine 12 ins.diam.bears N.45°E.32 lks.dist.
marked T 4 N R 5 W S 14 B T
A pine 8 ins.diam.bears S.47°E.95 lks.dist.
marked T 4 N R 5 W S 23 B T
A pine 13 ins.diam.bears S.23°W.70 lks.dist.
marked T 4 N R 5 W S 22 B T

Land mountainous.

Soil rocky;4th rate.

Timber pine 80.00 chs.

Mountainous land 80.00 chs.

S.89°52'E.on a random line bet.secs.14 and 23

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

80.01 Intersect N.and S. line 4 lks.S.of cor.of secs.13,14, 23 and 24.Thence I run

N.89°54'W.on a true line bet.secs.14 and 23

Over mountainous land;through dense pine timber,over heavy slide rock,descending.

35.00 Leave dense,pine scattering timber.

40.00½ Set a sandstone 16x12x12 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone

SUBDIVISION OF T.4 N.R.5 W.

CHAINS.	
	2 ft.base 1½ ft.high N.of cor.Pits impracticable.
48.50	Lake Fork Creek 15 lks.wide,drains S.;ascend.
80.01	The cor.of secs.14,15,22 and 23.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 80.01 chs.
	Mountainous land 80.01 chs.

N.0°02'W.bet.secs.14 and 15

Over mountainous land;through scattering pine timber, descending along E.slope of ridge.

40.00	Set a sandstone 28x8x5 ins.21 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
49.00	Draw drains S.E.;ascend.
50.00	Point of spur projects S.E.;descend.
52.00	Creek 3 lks.wide drains southeasterly.
	Ascend.
74.00	Top of spur projecting northeasterly;descend.
80.00	Set a sandstone 13x12x7 ins.9 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 raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	Timber scattering pine 80.00 chs.
	Mountainous land 80.00 chs.

June 28,1903.

S.89°54'E.on random line bet.secs.11 and 14

40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line 13 lks.S.of cor.of secs.11,12,13 and 14.Thence I run

SUBDIVISION OF T.4 N.R.5 W.

CHAINS.	
	W.on a true line bet.secs.11 and 14
	Over mountainous land;
	Descend over heavy slide rock and large boulders.
21.00	Enter scattering pine timber bears N.W.and S.E.
40.06	Set a sandstone 14x12x10 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 14 ins.diam.bears S.23°E.105 lks.dist. marked ¼ S 14 B T
	A pine 18 ins.diam.bears N.57°E.107 lks.dist. marked ¼ S 11 B T
	Ascend through scattering pine timber.
50.00	Top of spur projects S.W.
	Descend.
59.00	Lake Fork Creek 10 lks.wide,drains S.E.;ascend.
80.12	The cor.of secs.10,11,14 and 15.
	Land mountainous.
	Soil rocky;4th rate.
	Timber scattering pine 59.12 chs.
	Mountainous land 80.12 chs.
	June 29,1904.

June 30,1904.

N.0°02'W.bet.secs.10 and 11

Over mountainous land,large boulders,and heavy slide rock descending.

17.66	Lake Fork Creek 10 lks.wide drains S.E.;ascend.
40.00	Set a sandstone 22x12x12 ins.17 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
41.00	Top of ridge bears N.W.and S.E.
	Descend abruptly over small ledges and huge boulders.
60.00	Descend less abruptly.
80.00	Set a sandstone 14x10x8 ins., 9 ins. in the ground for cor

SUBDIVISION OF T.4 N.R.5 W.

CHAINS	
	of secs.2,3,10,and 11,marked with 5 notches on S.and 2 notches on E.edge;raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky 4th rate.
	Nortimber.
	Mountainous land 80.00 chs.
	E.on a random line bet.secs.2 and 11
40.00	Set temp.¼ sec.cor.
80.13	Intersect N.and S.line 10 lks.S.of cor.of secs.1,2,11 and 12.Thence I run
	S.89°56'W.on true line bet.secs.2 and 11
	Over mountainous land;through scattering pine timber;
	Descend abruptly.
3.40	Creek 3 lks.wide,drains southerly.
	Thence ascend gradually;leave timber.
8.00	Top of spur projects south;descend.
12.00	Creek 5 lks.wide,drains southeasterly.
40.06½	Set a sandstone 15x12x8 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.
	Continue gradual ascent.
58.00	Enter heavy boulders.
61.00	Begin gradual descent.
80.13	Cor.of secs.2,3,10,and 11.
	Land mountainous.
	Soil rocky;4th rate.
	Timber scattering pine 3.40 chs.
	Mountainous land 80.13 chs.

SUBDIVISION OF T.4 N.R.5 W.

CHAINS.	
	N.0°02'W.between secs.2 and 3.
	Descending over mountainous land
4.00	Head of Lake Fork Creek 10 lks.wide;drains SW.
	Ascend gradually.
21.50	S.edge of small lake;offset as follows: East 2.00 chs., N.0°02'W.3½ chs.;West 2.00 chs.
25.00	N.edge of lake.
	Ascend gradually.
40.00	Point for ¼ sec.cor.falls on rock in place,a sandstone 36x36x36 ins.above ground,on which Cut a cross (X) at the corner point for ¼ sec.cor., marked ¼ on W.side of cross;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
62.00	Ascend abruptly over heavy slide rock and large boulder
80.06	Intersect First Standard Parallel North 4.16 chs.E.of standard cor.to secs.34 and 35,heretofore described, Set a sandstone 14x12x6 ins.9 ins.in the ground,for closing corner of secs.2 and 3,marked C C on S.,with 2 grooves on E.and 4 grooves on W.face,and raise a mound of stone 2 ft.base 1½ ft.high S.of cor. Pits impracticable. Land mountainous. Soil rocky;4th rate. No timber. Mountainous land 80.06 chs.

June 30,1904.

July 1,1904 at the cor.of secs.3,4,33 and 34 on S.bdy. of Tp.,established by me and heretofore described ,in lat.40°42'N.;long.110°28'W.,at 12 h.53 m.a.m.l.m.t.I observe Polaris at eastern elongation in accordance with instructions in the Manual and mark the line thus determined by a tack driven in a wooden peg set in the ground

SUBDIVISION OF T.4 N.R.5 W.

CHAINS.	
	Five chains north of corner.
	At 6 h.30 m.a.m.l.m.t.I lay off the azimuth of Polaris 1°35'to the west and mark the true meridian thus determined by cutting a mark on a stone firmly set in the ground west of the point established in the Polaris observation;the magnetic bearing of the said true meridian is N.16°35'W.,which gives the magnetic declination 16°33'E.
	Thence I run
	N.0°02'W.bet.secs.33 and 34,
	Over mountainous land;through dense pine timber;ascending gradually.
2.00	Top of ridge; bears NE. and SW. Descend.
23.00	Enter heavy slide rock.
27.00	Leave heavy slide rock.
40.00	Set a sandstone 16x10x6 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pine 12 ins.diam.bears N.65°E.6 lks.dist.
	marked $\frac{1}{4}$ S 34 B T
	A pine 14 ins.diam.bears N.63°W.11 lks.dist.
	marked $\frac{1}{4}$ S 33 B T
40.80	S.edge of lake containing about 1 acre.To ascertain distance across lake,I offset as follows: E.2.00 chs.;N.0° 02'W.3 chs.;W.2.00 chs.to
43.80	N.edge of Lake.
80.00	Set a sandstone 22x12x8 ins.17 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
	A pine 6 ins.diam.bears N.4°W.16 lks.dist.
	marked T 4 N R 5 W S 28 B T
	A pine 7 ins.diam.bears S.64°W.7 lks.dist.
	marked T 4 N R 5 W S 33 B T
	A pine 6 ins.diam.bears N.68°E.2 lks.dist.
	marked T 4 N R 5 W S 27 B T.
	A pine 14 ins.diam.bears S.60°E.42 lks.dist.
	marked T 4 N R 5 W S 34 B T

SUBDIVISION OF T.4 N.R.5 W.

CHAINS.

Land mountainous.

Soil 4th rate rocky.

Timber pine 80.00 chs.

Mountainous land 80.00 chs.

S.89°56'E.on a random line bet.secs.27 and 34

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

80.03 Intersect N.and S.line 21 lks.S.of cor.of secs.26,27, 34 and 35.Thence I run

S.89°55'W.on true line bet.secs.27 and 34

Over mountainous land,through dead and fallen timber.

Ascending.

3.00 Over large sandstone boulders.

7.00 Ascend abruptly.

40.01½ Point for $\frac{1}{4}$ sec.cor.falls on rock in place,a sandstone 36x40x24 ins.above ground,on which at exact point for $\frac{1}{4}$ sec.cor.I cut a cross (X) and mark $\frac{1}{4}$ on N.of cross;raise a mound of stone 3 ft.base 1½ ft.high N.of cor.

Pits impracticable.

41.00 Top of ridge bears N.E.and S.W.

Thence descend abruptly over slide rock and large boulders.

45.00 Descend less abruptly;

Enter pine timber bears N.and S.

80.03 The cor.to secs.27,28,33,and 34.

Land mountainous.

Soil rocky;4th rate.

Timber pine 35.03 chs.

Mountainous land 80.03 chs.

N.0°02'W.bet.secs.27 and 28

Over mountainous land,over heavy slide rock and through scattering pine timber;ascending.

SUBDIVISIONS OF T.4 N.R.5 W.

CHAINS	
34.00	Leave heavy slide rock;enter dense pine timber.
40.00	Set a sandstone 24x8x6 ins.18 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which A pine 16 ins.diam.bears S.67°E.38 lks.dist. marked $\frac{1}{4}$ S 27 B T A pine 18 ins.diam.bears S.85°W.38 lks.dist. marked $\frac{1}{4}$ S 28 B T
47.00	South bank of lake containing about 3 acres;to ascertain distance across lake I offset as follows,E.3.00 chs. N.0°02'W.7.00 chs.;W.3.00 chs.to
54.00	N.bank of lake.
	Ascend.
70.00	Leave timber bears E.and W.
80.00	Set a sandstone 22x10x6 ins.17 ins.in the ground for cor. to secs.21,22,27,and 28,marked with 2 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 rocky;4th rate.
	Timber pine 70.00 chs.
	Mountainous land 80.00 chs.
	July 1,1904.
	N.89°55'E.on a random line bet.secs.22 and 27
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.94	Intersect N.and S.line 14 lks.S.of cor.of secs.22,23, 26 and 27;thence I run S.89°49'W.on true line bet.secs.22 and 27
	Over mountainous land;ascending abruptly along southerly slope of ridge;through dense pine timber.
28.00	Top of ridge bears N.and S.
	Leave timber.
	Descend.
39.97	Set a sandstone 20x9x6 ins.15 ins.in the ground for $\frac{1}{4}$

SUBDIVISION OF T.4 N.R.5 W.

CHAINS

sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.

Pits impracticable.

Thence descend over steep cliffs,and heavy slide rock.

64.00 Descend more gradually.

79.94. The cor.of secs.21,22,27,and 28.

Land mountainous.

Soil rocky;4th rate.

Timber pine 28.00 chs.

Mountainous land 79.94 chs.

N.0°02'W.bet.secs.21 and 22

Over mountainous land;ascending.

7.00 Enter dense pine timber;descend gradually.

28.40 Small stream 5 lks.wide,drains southwesterly;

Ascend gradually.

40.00 Set a sandstone 18x8x4 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which

A pine 8 ins.diam.bears S.42°E.42 lks.dist.

marked $\frac{1}{4}$ S 22 B T

A pine 6 ins.diam.bears S.52°W.41 lks.dist.

marked $\frac{1}{4}$ S 21 B T

Continue through timber.

80.00 Set a sandstone 26x12x8 ins.20 ins.in the ground for cor. of secs.15,16,21,and 22,marked with 3 notches on S.and E.edges;from which

A pine 10 ins.diam.bears N.31°W.26 lks.dist.

marked T 4 N R 5 W S 16 B T

A pine 7 ins.diam.bears N.32°E.16 lks.dist.

marked T 4 N R 5 W S 15 B T

A pine 12 ins.diam.bears S.30°E.13 lks.dist.

marked T 4 N R 5 W S 22 B T

A pine 10 ins.diam.bears S.29°W.13 lks.dist.

marked T 4 N R 5 W S 21 B T

SUBDIVISION OF T.4 N.R.5 W.

CHAINS	
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 73.00 chs.
	Mountainous land 80.00 chs.

N.89°49'E.on a random line bet.secs.15 and 22

40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.04	Intersect N.and S.line 13 lks.N.of cor.of secs.14,15,22, and 23.Thence I run

S.89°55'W.on a true line bet.secs.15 and 22.

Over mountainous land.

Ascend abruptly over heavy slide rock,and through dense pine timber.

20.00	Top of ridge bears N.and S.

Descend abruptly over slide rock.

Leave timber bears N.and S.

40.02	Point for $\frac{1}{4}$ sec.cor.falls on slide rock,cannot be set.
52.25	Set a sandstone 32x18x10 ins.24 ins.in the ground for witness $\frac{1}{4}$ sec.cor.,marked W 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 impracticable.

Descend gradually.

57.00	Enter pine timber.
80.04	The cor.of secs.15,16,21,and 22.

Land mountainous.

Soil 4th rate;rocky.

Timber pine 53.04 chs.

Mountainous land 80.04 chs.

July 2,1904.

N.0°02'W.bet.secs.15 and 16

Over mountainous land;through heavy live pine and dead and fallen timber.

SUBDIVISION OF T.4 N.R.5 W.

CHAINS.	Ascending.
36.00	Leave pine timber bears E.and W.;continue through falle timber and over large boulders.
40.00	Set a sandstone 24x12x4 ins.18 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high W.of cor.
	Pits impracticable.
	Thence ascend gradually.
80.00	Set a sandstone 18x10x8 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;and raise a mound of stones 2 f. base 1$\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 36.00 chs.
	Mountainous land 80.00 chs.
	N.89°55'E.on a random line bet.secs.10 and 15
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.96	Intersect N.and S.line 3 lks.N.of cor.of secs.10,11,14 and 15.Thence I run
	S.89°56'W.on a true line bet.secs.10 and 15.
	Over mountainous land;ascending.
31.00	Top of ridge bears N.and S.
	Descend abruptly over slide rock.
39.98	Set a sandstone 14x8x7 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
	Thence continue over heavy slide rock;steep descent.
79.96	The cor.of secs.9,10,15,and 16.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.

SUBDIVISION OF T.4 N.R.5 W.

CHAINS.	
	Mountainous land 79.96 chs.
	N.0°02'W.bet.secs.9 and 10
	Over mountainous land;along west slope of ridge over sandstone boulders.
40.00	Set a sandstone 16x12x7 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor. Pits impracticable.
51.00	Begin steep ascent.
80.00	Set a sandstone 24x8x6 ins.18 ins.in the ground for cor. of secs.3,4,9,and 10,marked with 5 notches on S.and 3 notches on E.edges;and 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.
	July 3,1904.
	N.89°56'E.on a random line bet.secs.3 and 10
40.00	Set tramp.¼ sec.cor.
80.02	Intersect N.and S.line 1 lk.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
	Over mountainous land,heavy slide rock and large boulders.
3.00	Creek 10 lks.wide drains S.W.
22.00	E.edge of lake containing about 3 acres;to ascertain distance across lake I offset as follows: N.3.00 chs. S.89°56'W.5.00 chs.;S.3.00 chs. to
27.00	W.edge of lake.
34.00	Falls on stationary sandstone 3x2x1 ft.above ground,on

CHAINS.	
	which,I cut a cross (X) for witness cor.to ¼ sec.cor., and marked W C ¼ on N.of cross;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
34.10	Steep ascent over heavy slide rock.
40.01	Point for ¼ sec.cor.falls on slide rock and cannot be set.
80.00	Top of ridge bears N.E.and S.W.;descend.
80.02	The cor.of secs.3,4,9,and 10.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 80.02 chs..

N.0°02'W.bet.secs.3 and 4

	Over mountainous land;ascending over heavy slide rock.
40.00	Set a sandstone 20x12x12 ins.15 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.P
	Pits impracticable..
	Ascend abruptly.
80.08	Intersect First Standard Parallel North 4.20 chs.E.of standard cor.of secs.34 and 35,heretofore described. Set a sandstone 12x12x10 ins.8 ins.in the ground,for closing corner of secs.3 and 4,marked C C on S.with 3 grooves on E.and 3 grooves on W.faces;and raise a mound of stones 2 ft.base 1½ ft.high S.of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountai ous land 80.08 chs.

July 4,1904.

SUBDIVISION OF T.4 N.R.5 W.

CHAINS.	
	July 5,1904.
	From the cor.of secs.4,5,32,and 33 on S.bdy.of Tp.established by me,and heretofore described,I run
	N.0°03'W.bet.secs.32 and 33
	Over mountainous land;through dense pine timber;over large boulders;ascending.
10.00	Edge of bluff;descend.over ledges bear E.and W.
28.30	Creek 8 lks.wide,drains easterly.
37.00	Creek 7 lks.wide,drains easterly.
40.00	Set a sandstone 30x10x8 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 12 ins.diam.bears N.52°W.7 lks.dist.
	marked ¼ S 32 B T
	A pine 13 ins.diam.bears N.21°E.30 lks.dist.
	marked ¼ S 33 B T
51.00	Point of spur projects S.E.;descend.
80.00	Set a sandstone 15x8x6 ins.10 ins.in the ground,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 14 ins.diam.bears N.57°W.37 lks.dist.
	marked T 4 N R 5 W S 29 B T
	A pine 10 ins.diam.bears N.76°E.60 lks.dist.
	marked T 4 N R 5 W S 28 B T
	A pine 8 ins.diam.bears S.33°E.46 lks.dist.
	marked T 4 N R 5 W S 33 B T
	A pine 13 ins.diam.bears S.14°W.33 lks.dist.
	marked T 4 N R 5 W S 32 B T
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 80.00 chs.
	Mountainous land 80.00 chs.

S.89°56'E.on a random line bet.secs.28 and 33

SUBDIVISION OF T.4 N.R.5 W.

CHAINS	
40.00	Set temp. ¼ sec.cor.
75.00	Intersect N.and S.line f 1km.S.of cor.of secs.27,28,33 and 34.Thence I run
	West on a true line bet.secs.28 and 33.
	Over mountainous land;through dense pine timber;descending.
39.00	Set a sandstone 15x10x8 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 12 ins.diam.bears N.38°E.7 lks.dist.
	marked ¼ S 28 B T
	A pine 12 ins.diam.bears S.15°E.14 lks.dist.
	marked ¼ S 33 B T
47.50	Creek 11 lks.wide,drains southerly.
	Ascend.
57.00	Top of spur projects southeasterly;descend.
65.00	Creek 11 lks.wide,drains southeasterly;ascend.
75.00	The cor.of secs.28,29,32 and 33.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 75.00 chs.
	Mountainous land 75.00 chs.
	July 5,1904.

	N.0°53'W.bet.secs.28 and 29
	Over mountainous land;through dense pine timber;over large sandstone boulders.
5.00	Creek 10 lks.wide,drains E.
	Ascend abruptly.
12.00	Spur projects easterly;descend.
40.00	Set a sandstone 16x10x6 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 8 ins.diam.bears S.21°W.21 lks.dist.
	marked ¼ S 28 B T

SUBDIVISION OF T.4 N.R.5 W.

Chains.	
	A pine 10 ins.diam.bears N.70°E.29 lks.dist. marked ¼ S 28 B T
46.50	S.edge of lake containing about 3 acres;offset as follows: E.3 chs.;N.0°05'W.5 chs.;W.3 chs.to
51.50	N.edge of lake. Ascend.
80.00	Set a sandstone 18x8x6 ins.8 ins.in the ground for cor. of secs.20,21,28,and 29,marked with 2 notches on S.and 4 notches on E.edges;from which
	A pine 10 ins.diam.bears N.21°W.42 lks.dist. marked T 4 N R 5 W S 20 B T
	A pine 13 ins.diam.bears N.52°E.87 lks.dist. marked T 4 N R 5 W S 21 B T
	A pine 12 ins.diam.bears S.49°E.73 lks.dist. marked T 4 N R 5 W S 28 B T
	A pine 11 ins.diam.bears S.10°W.83 lks.dist. marked T 4 N R 5 W S 29 B T
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 80.00 chs.
	Mountainous land 80.00 chs.

	E.on a random line bet.secs.21 and 28
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line 9 lks.S.of the cor.of secs.21, 22,27,and 28.
	Thence I run
	S.89°56'W.on a true line bet.secs.21 and 28
	Over mountainous land;descending over large boulders, and through dead and fallen timber.
16.00	Steep bluff bears N.and S.
19.00	Small valley course N.and S.
20.50	Creek 20 lks.wide,drains southerly.
24.57	Creek 10 lks.wide,drains southerly.
27.80	Creek 8 lks.wide,drains southeasterly.

SUBDIVISION OF T.4 N.R.5 W.

Chains

. Ascend.

32.00 Leave timber.

39.99 The point for $\frac{1}{4}$ sec.cor.falls on rock in place 5x3x2 ft.above ground,on which

Cut a cross (X) at the corner point for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.side of cross;and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

60.00 Enter pine timber bears N.and S.

79.98 The cor.of secs.20,21,28,and 29.

Land mountainous.

Soil rocky;4th rate.

Timber pine 51.98 chs.

Mountainous land 79.98 chs.

N.0°03'W.bet.secs.20 and 21

Over mountainous land;through dense live pine timber, and dead and fallen timber;descending.

25.10 Creek 5 lks.wide,drains southeasterly.

Ascend.

34.00 Leave timber bears E.and W.

40.00 Set a sandstone 14x10x9 ins.9 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

Thence ascend over sandstone ledges and slide rock.

80.00 Set a sandstone 16x10x10 ins.11 ins.in the ground for cor.of secs.16,17,20,and 21;marked with 3 notches on S. and 4 notches on E.edges;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

Land mountainous.

Soil rocky;4th rate.

Timber pine 34.00 chs.

Mountainous land 80.00 chs.

July 6,1904.

SUBDIVISION OF T.4 N.R.5 W.

Chains	
	July 7,1904.
	N.89°56'E.on a random line bet.secs.16 and 21
40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line 7 lks.N.of cor.of secs.15,16,21 and 22. Thence I run
	S.89°59'W.on a true line bet.secs.16 and 21
	Over mountainous land;descending over large sandstone boulders;through dense pine timber.
34.00	Creek 10 lks.wide drains S.
39.96	Set a sandstone 14x9x5 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 10 ins.diam.bears N.75°E.86 lks.dist.
	marked ¼ S 16 B T
	A pine 10 ins.diam.bears S.22°W.79 lks.dist.
	marked ¼ S 21 B T
47.00	Leave timber.
	Ascend over slide rock.
79.92	The cor.of secs.16,17,20,and 21.
	Land mountainous.
	Soil rocky 4th.rate.
	Timber pine 47.00 chs.
	Mountainous land 79.92 chs.

	N.0°03'W.bet.secs.16 and 17
	Over mountainous land;descending over large sandstone boulders and slide rock.
12.00	S.edge of lake containing about 1 acre.offset as follows W.2 chs.;thence N.0°03'W.4.00 chs.;thence E.3.00 chs.to
16.00	N.edge of lake;ascend.
40.00	Set a sandstone 14x10x8 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Descend.

SUBDIVISION OF T.4 N.R.5 W.

Chains.	
42.00	S.edge of lake containing about 2 acres;offset as follows: W.2.00 chs.;thence N.0°03'W.6.00 chs.;thence E. 2.00 chs.to
40.00	N.edge of lake
80.00	Set a sandstone 15x10x10 ins.10 ins.in the ground,for cor.of secs.8,9,16,and 17,marked with 4 notches on E.an 4 notches on S.edges;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 80.00 chs.

N.89°59'E.on a random line bet.secs.9 and 16

40.00	Set temp.¼ sec.cor.
79.80	Intersect N.and S.line 9 lks.N.of the cor.of secs.9;10, 15,and 16.Thence I run
	N.89°57'W.on a true line bet.secs.9 and 16
	Over mountainous land;descending over large boulders an heavy slide rock.
9.20	Creek 4 lks.wide,drains southwesterly.
	Thence ascend gradually.
38.00	Begin abrupt ascent,over heavy slide rock and over larg boulders.
39.90	Set a sandstone 14x9x6 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
	Thence over broken country and large sandstone boulders and broken ledges.
72.00	Descend abruptly.
74.00	Begin gradual ascent.
79.80	The cor.of secs.8,9,16,and 17.

SUBDIVISION OF T.4 N.R.5 W.

Chains.	
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 79.80 chs.
	July 7,1904.

July 8,1904.

N.0°03'W.bet.secs.8 and 9.

	Ascending over rocky land.
12.00	A lake 6 chs.long 6 chs.wide,20 lks.W.of line.
32.00	Begin abrupt ascent.
38.35	Set a sandstone 24x8x8 ins.18 ins.in the ground for witness ¼ sec.cor.,marked W C ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Ascend over point of spur and ledge 500 ft.high projecting easterly.
40.00	Point for ¼ sec.cor.falls on ledge,cannot be set.
48.00	Lake containing about 3 acres 1 ch.E.of line.
68.00	Small lake containing about 3 acres about 4 chs.E.of line.
80.00	Set a sandstone 14x8x6 ins.9 ins.in the ground for cor. of secs.4,5,8,and 9,marked with 4 notches on E.and 5 notches on S.edges;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 80.00 chs.

S.89°57'E.on a random line bet.secs.4 and 9

40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line 7 lks.S.of cor.of secs.3,4,9,and

SUBDIVISION OF T.4 N.R.5 W.

Chains.	
	10.Thence I run
	W.on a true line bet.secs.4 and 9
	Ascend over rocky south slope.
39.99	Set a sandstone 36x24x12 ins.27 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a muund of ston 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
52.00	E.edge of lake containing about 1 acre;offset as follow : N.2.00 chs.;West 3.00 chs.;S.2.00 chs.to
55.00	W.edge of lake.
	Thence ascend abruptly.
79.98	The cor.of secs.4,5,8,and 9.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 79.98 chs.

N.0°03'W.bet.secs.4 and 5

Ascend over mountainous land,heavy slide rock and boulders.

40.00	Set a sandstone 18x10x8 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raised a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
67.49	Intersect north boundary of the Uintah Indian Reservation,
	Set a sandstone 20x10x8 ins.15 ins.in the ground,for closing corner of secs.4 and 5;marked C C U I R with 6 grooves on S. and 4 grooves on E.and U F R on N.faces; and raised a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high S.of cor.Pits impracticable.
	From the closing corner the 34th mile corner on the boundary,as established by Deputies A.H.and F.M.Brown, under their contract No.264,bears N.77°W.16.42 chs.

SUBDIVISION OF T.4 N.R.5 W.

Chains	
	dist.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 67.49 chs. July 8,1904.

July 9,1904. At the cor.of secs.5,6,31 and 32 on S.bdy. of Tp.heretofore described;lat.40°42' N.;longitude 110° 30' W. at 0 h.22 m.a.m.l.m.t.I observe Polaris at eastern elongation in accordance with instructions in the Manual and mark the line thus determined by a tack driven in a wooden peg set in the ground 5.00 chs.N.of my station.

At 7 h.0 m.a.m.l.m.t.I lay off the azimuth of Polaris 1°35'to the west and mark the meridian thus determined by cutting a mark on a stone firmly set in the ground west of the mark established this a.m.;the magnetic bearing of the said true meridian is N.16°20'W.,which gives the magnetic declination 16°20'E.

	Thence I run N.0°04'W.bet.secs.31 and 32
	Over mountainous land and sandstone boulders.
7.00	S.edge of lake containing about 20 acres;I offset as follows: West 7.00 chs.;N.0°04'W.18.00 chs.;E.7.00 chs.
25.00	N.edge of lake.
	Descend through pine timber.
40.00	The point for ¼ sec.cor.falls on a sandstone in place 24x10x8 ins.above ground,on which
	Cut a cross (X) at the corner point for ¼ sec.cor., marked ¼ on W.side of cross;from which

Chains

A pine 10 ins.diam.bears N.32°W.26 lks.dist.
marked ¼ S 31 B T
A pine 14 ins.diam.bears N.47°E.15 lks.dist.
marked ¼ S 32 B T

48.00 Spur projects S.E.

55.00 Ravine and creek 8 lks. wide, drains SE.

67.00 Ridge bears E.and W.;descend.

80.00 Point for cor.of secs.29,30,31,and 32 falls on rock in place,a sandstone 40x12x22 ins.above ground,on which Cut a cross (X) at the corner point,marked 5 notches on E.and 1 notche on S.face;from which

A pine 8 ins.diam.bears N.77°W.49 lks.dist.
marked T 4 N R 5 W S 30 B T
A pine 12 ins.diam.bears N.20°E.37 lks.dist.
marked T 4 N R 5 W S 29 B T
A pine 13 ins.diam.bears S.19°E.90 lks.dist.
marked T 4 N R 5 W S 32 B T

No other bearing trees within limits;raise a mound of stone 2 ft.base 1½ ft.high W.of corns.Pits impracticable.
Land mountainous.
Soil rocky;4th rate.
Timber pine 55.00 chs.
Mountainous land 80.00 chs.

S.89°56'E.on a random line bet.secs.29 and 32

40.00 Set temp.¼ sec.cor.

80.12 Intersect N.and S.line 16 lks.S.of cor.of secs.28,29,32 and 33.Thence I run

S.89°57'W.on a true line bet.secs.29 and 32
Over mountainous land.Ascending through dense pine timbe over sandstone boulders.

40.06 Set a sandstone 20x10x8 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

A pine 12 ins.diam.bears N.12°W.93 lks.dist.

SUBDIVISION OF T.4 N.R.5 W.

Chains	
	marked ¼ S 29 B T
	A pine 13 ins.diam.bears S.32°W.44 lks.dist.
	marked ¼ S 32 B T
	Continue through dense pines.
	Ascending gradually.
80.12	The cor.of secs.29,30,31,and 32.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 80.12 chs.
	Mountainous land 80.12 chs.

N.89°56'W.on a random line bet.secs.30 and 31

40.00	Set temp.¼ sec.cor.
74.40	Intersect N.and S.line 10 lks.N.of cor.of secs.25,30,31 and 36 on W.bdy.of Tp.,heretofore described. Thence I run
	East on a true line bet.secs.30 and 31
	Over mountainous land;ascending abruptly over ledges, heavy slide rock and large sandstone boulders.
23.00	Top of mountain ridge bears N.and S.;descend.
34.40	Set a sandstone 15x12x8 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.
46.00	Bottom of dry wash,course southeasterly;
	Lake containing about 4 acres 10 chs.S.of line.Ascend.
50.00	Ridge bears N.W.and S.E.
	Enter pine timber.
74.40	The cor.of secs.29,30,31,and 32.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 24.40 chs.
	Mountainous land 74.40 chs. July 9,1904.

SUBDIVISION OF T.4 N.R.5 W.

Chains.	
	July 10,1904.
	N.0°04'W.bet.secs.29 and 30
	Over mountainous land;through scattering pine timber;
	ascending along E.slope of ridge.
22.00	Descend over large boulders and slide rock.
40.00	Set a sandstone 14x8x6 ins.9 ins.in the ground,for ¼
	sec.cor.,marked ¼ on W.face;and raise a mound of stone
	2 ft.base 1½ ft.high W.of cor. Pits impracticable.
	A pine 10 ins.diam.bears S.32°E.30 lks.dist.
	marked ¼ S 29 B.T
45.00	Creek 5 lks.wide,drains S.E.
	Thence ascend gradually;leave scattering timber.
80.00	Set a sandstone 22x8x4 ins.17 ins.in the ground for cor.
	of secs.19,20,29,and 30,marked with 5 notches on E.and
	2 notches on S.edges;and raise a mound of stone 2 ft.
	base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	Timber scattering pine 45.00 chs.
	Mountainous land 80.00 chs.
	N.89°57'E.on a random line bet.secs.20 and 29
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line 14 lks.N.of the cor.of secs.20,
	21,28,and 29.Thence I run
	N.89°57'W.on a true line bet.secs.20 and 29
	Over mountainous land,huge sandstone boulders,heavy
	slide rock;ascending.
5.00	Enter scattering pine timber bears N.and S.
10.00	E.edge of lake containing about 15 acres;offset as fol-
	lows: North 6.00 chs.;N.89°57'W.12.00 chs.;South 6.00
	chs.
22.00	W.edge of lake
39.98	Set a sandstone 12x8x6 ins.8 ins.in the ground for ¼

SUBDIVIS [illegible] OF T.4 N.R.5 W.

Chains.	
	sec.cor.;marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
41.00	Creek 3 lks.wide,flows into the lake;course southeasterly.
65.00	Leave scattering pine timber.
79.96	The cor.to secs.19,20,29,and 30.
	Land mountainous.
	Soil rocky;4th rate.
	Timber scattering pine 65.00 chs.
	Mountainous land 79.96 chs.

West on a random line bet.secs.19 and 30

40.00	Set temp.¼ sec.cor.
74.28	Intersect W.bdy.of Tp.20 lks.N.of the cor.of secs.19,24 25 and 30,heretofore described.
	Thence I run
	N.89°51'E.on a true line bet.secs.19 and 30
	Over mountainous land,sandstone ledges and large boulders;ascending abruptly.
34.00	Top of ridge bears N.and S.;descend.
34.28	Set a sandstone 18x8x8 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.
38.00	Descend abruptly.
55.40	Lake,containing about 3 acres,2 chs.N.of line;thence d scend more gradually.
	Spring branch 3 lks.wide,drains S.E.
74.28	The cor.of secs.19,20,29,and 30.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 74.28 chs. July 10,1904.

SUBDIVISION OF T.4 N.R.5 W.

Chains.	
	July 11,1904.
	N.0°04'W.bet.secs.19 and 20
	Over mountainous land,large sandstone boulders and dead and fallen timber;ascending.
3.00	Begin gradual descent.
40.00	Set a sandstone 14x6x6 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face,and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
46.00	Creek 3 lks.wide,drains easterly.
	Thence ascend.
71.00	Point of rocky spur projects easterly.
	Thence descend.
80.00	Set a sand tone 14x6x6 ins.9 ins.in the ground for cor. of secs.17,18,19,and 20,marked with 3 notches on S.and 5 notches on E.edges;and raise a mound of stone 2 ft. base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 80.00 chs.

S.89°57'E.on a random line bet.secs.17 and 20

40.00	Set temp.¼ sec.cor.
79.99	Intersect N.and S.line 3 lks.N.of cor.of secs.16,17,20 and 21.Thence I run

N.89°56'W.on a true line bet.secs.17 and 20

	Over mountainous land,large sandstone boulders and heav slide rock;ascending.
40.00	Point for ¼ sec.cor.falls on sandstone in place,3x2x2 f . above ground on which
	Cut a cross (X) at the cor.point for ¼ sec.cor.,marked ¼ on N.side of cross,and raise a mound of stone 2 ft. base 1½ ft.high N.of cor.

Chains.	
	Pits impracticable.
79.99	The cor.of secs.17,18,19,and 20.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 79.99 chs.

S.89°51'W.on a random line bet.secs.18 and 19

40.00	Set temp.$\frac{1}{4}$ sec.cor.
74.21	Intersect W.bdy.of Tp.18 lks.S.of 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

Over mountainous land,sandstone ledges,large boulders, and heavy slide rock;ascending abruptly.

25.00	Top of ridge;bears N.and S. Thence descend abruptly.
34.21	Set a sandstone 24x5x4 ins.18 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
74.21	The cor.of secs.17,18,19,and 20.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 74.21 chs.

July 11,1904.

July 12,1904.

N.0°04'W.bet.secs.17 and 18

Over mountainous land and large sandstone boulders; ascending abruptly.

25.00	Foot of ledges;ascend.
27.00	Top of ledges bear E.and W.
	Ascend gradually.

SUBDIVISION OF T.4 N.R.5 W.

Chains	
40.00	Set a sandstone 14x10x8 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
49.00	Ascend abruptly.
80.00	Set a sandstone 24x8x7 ins.18 ins.in the ground for cor.of secs.7,8,17,and 18;marked with 5 notches on E.an 4 notches on S.edges;and raise a mound of stone 2 ft. base 1½ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 80.00 chs.

S.89°56'E.on a random line bet.secs.8 and 17

40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line 5 lks.N.of cor.of secs.8,9,16, and 17.Thence I run

N.89°54'W.on a true line bet.secs.8aand 17

	Over mountainous land,huge sandstone boulders,and heavy slide rock;ascending.
9.00	East edge of lake containing about 4 acres;offset as follows: North 4.00 chs.;N.89°54'W.5.00 chs.;S.4.00 chs.
14.00	W.edge of lake.
39.96	Set a sandstone 12x12x4 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 ftihigh N.of cor.
	Pits impracticable.
79.92	The cor.of secs.7,8,17,and 18.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 79.92 chs.

Chains.	
	S.89°57'W.on a random line bet.secs.7 and 18
40.00	Set temp.$\frac{1}{4}$ sec.cor.
74.04	Intersect W.bdy.of Tp.11 lks.S.of cor.of secs.7,12,13 and 18,heretofore described.
	Thence I run
	S.89°58'E.on a true line bet.secs.7 and 18
	Over mountainous land;ascend gradually.
15.00	Begin abrupt ascent.
34.04	Set a sandstone 12x12x6 ins.8 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high N.of cor.Pits impracticable.
	Thence ascend abruptly.
68.00	Top of ridge bears N.E.and S.W.;descend.
74.04	The cor.of secs.7,8,17,and 18.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 74.04 chs.
	July 12,1904.

July 13,1904,

N.0°04'W.bet.secs.7 and 8

Over mountainous land; ascending.

6.00	Ascend more abruptly over slide rock.
40.00	Set a sandstone 16x8x6 ins.11 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
80.00	Set a sandstone 18x10x6 ins.12 ins.in the ground for cor.of secs.5,6,7,and 8,,marked with 5 notches on E. and 5 notches on S.edge;and raise a mound of stone 2 ft. base 1$\frac{1}{2}$ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.

SUBDIVISION OF T.4 N.R.5 W.

Chains.

No timber.

Mountainous land 80.00 chs.

S.89°54'E.on a random line bet.secs.5 and 8

40.00 Set temp.¼ sec.cor.

79.90 Intersect N.and S.line 5 lks.S.of cor.of secs.4,5,8 and 9.Thence I run

N.89°56'W.on a true line bet.secs.5 and 8

Over mountainous land;ascending along S.W.slope,over slide rock and boulders.

39.95 Set a sandstone 20x8x6 ins.15 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.

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

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 79.90 chs.

July 13,1904.

July 14,1904.

N.89°58'W.on a random line bet.secs.6 and 7

40.00 Set temp.¼ sec.cor.

74.17 Intersect W.bdy.of Tp.4 lks.N.of cor.of secs.1,6,7,and 12,heretofore described.

Thence I run

East on a true line bet.secs.6 and 7

Over mountainous land;along S.E.slope of ridge;descending,over slide rock.

34.10 Set a sandstone 18x8x6 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.hign N.of cor.Pits impracticable.

74.17 The cor.of secs.5,6,7,and 8.

Mountainous land 74.17 chs.

SUBDIVISION OF T.4 N.R.5 W.

Chains.	
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 74.17 chs.

N.0°04'W.bet.secs.5 and 6

Over mountainous land;ascending along SE slope of ridge;over slide rock.

40.00 Set a sandstone 16x8x6 ins.11 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.

Pits impracticable.

79.85 Intersect First Standard Parallel North 4.11 chs.E.of standard cor.of secs.31 and 32,heretofore described.

Set a sandstone 18x6x4 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.face;and raise a mound of stone 2 ft.base 1½ ft.high S.of cor.

Pits impracticable.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 79.85 chs.

July 14,1904.

G E N E R A L D E S C R I P T I O N.

This township consists wholly of mountainous land, and is not suitable for either agricultural or grazing purposes.

There is an abundant supply of water,the head waters of Lake Fork Creek draining the eastern,and several small lakes being located in the western portion

of the township.

There is some pine timber in the southern and eastern portions of the township;but the northern part is above timber line.

There are no indications of mineral in the township.

There are no settlers in the township.

James F. Scattergood

U.S.Deputy Surveyor.

BOOK A-311

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by James F. Trotter, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisional lines of T.4 N.R.5 W. of the Uintah Special Base and Meridian, Uta showing the respective capacities in which they acted:

Leith Morrison, *Chainman.*

Jay Morrison, *Chainman.*

W.I. Rowland, *Moundman.*

, *Moundman.*

John Graham, *Axman.*

Foster Walker, *Axman.*

M. Brown, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted James F. Trotter, United States Deputy Surveyor, in surveying all those parts or portions of the the Subdivisional lines of Township 4 North, Range 5 West of the

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

Leith Morrison, *Chainman.*

Jay Morrison, *Chainman.*

W. I. Rowland, *Moundman.*

John Graham, *Moundman.*

Foster Walker, *Axman.*

, *Axman.*

M. Brown, *Flagman.*

Subscribed and sworn to before me this 16th day of August, 1904

SEAL

James F. Trotter

Chief Deputy Surveyor

6-151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, James F. Trotter, United States Deputy Surveyor, do solemnly swear that in pursuance of a contract received from Edward F. Cushman, United States Surveyor General for Indiana of Utah, bearing date of the [illegible] 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 [illegible], the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivisional lines of Township 4 North, Range 5 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 and 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 6, 1846.

James F. Trotter
United States Deputy Surveyor

Subscribed by said James F. Trotter, and sworn to before me this 14 day of August, 1904.

Edward F. Cushman
U.S. Surveyor General
for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, Septe. Dec. 7, 1904

The foregoing field notes of the survey of the Subdivisional lines of Township No. 4 North, Range No. 5 West of the Uintah Special Base and Meridian, Utah.

Surveyed by James F. Trotter

Under the contract No. 273 dated July 22, 1903, having been [illegible] and the necessary corrections and explanations made the said field notes, and the surveys thereby are hereby approved.

Edward F. Cushman
United States Surveyor General

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

United States Surveyor General

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BOOK A-311

FIELD NOTES

OF THE SURVEY OF THE

W.H.

SUBDIVISIONAL LINES

OF

TOWNSHIP NO. 5 NORTH

OF

RANGE NO. 5 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

James F. Trotter, *United States Deputy Surveyor,*

Under his Contract No. 273, *dated* July 22, *190*3.

Survey commenced July 15, *190*4

Survey completed July 17, *190*4.

6—151

high L 18.47

clog 36.09

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

Foster Walker	Chainman
Lyman Judson	Chainman
W.I.Rowland	Moundman
M.Brown	Flagman.

6—151

Volume
#
R0311

BOOK A-311

INDEX DIAGRAM.

Township 5 North, *Range* 5 West

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

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, Foster Walker and Lyman Judson 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 Subdivisional lines of Township No.5 N.Range No.5 W.of the Uintah Special Base and Meridian,Utah.

Foster Walker, *Chainman.*

Lyman Judson, *Chainman.*

Subscribed and sworn to before me this 15th day of July, 1904

SEAL

James F. Trotter
U.S. Deputy

WE, I.W.I.Rowland 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 the Subdivisional lines of Township No.5 N.Range No.5 W.of the Uintah Special Base and Meridian,Utah.

W. I. Rowland, *Moundman.*

, *Moundman.*

Subscribed and sworn to before me this 15th day of July, 1904

SEAL

James F. Trotter
U.S. Deputy Surv.

WE, [illegible] 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 [illegible] of the Uintah [illegible]

, *Axman.*

, *Axman.*

Subscribed and sworn to before me this day of , 190

SEAL

I, M.Brown, 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 Subdivisional lines of Township No.5 N.Range No.5 W.of the Uintah Special Base and Meridian,Utah.

M Brown, *Flagman.*

Subscribed and sworn to before me this 15th day of July, 1904

SEAL

James F. Trotter
U.S. Deputy Surv.

f—131

SUBDIVISION OF T.5 N.R.5 W.

Chains.

Survey commenced July 15,1904,and executed with a W. and L.E.Gurley light mountain transit No. ;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,August 20,1903.

I begin at the standard cor.of secs.35 and 36 on S.bdy. of Tp.heretofore described;lat.40°47'N.;long.110°25'W. and at 11 h.54 m.p.m.l.m.t.I observe Polaris at eastern elongation in accordance with instructions in the Manual and mark the line thus determined by a tack driven in a wooden peg set in the ground 5.00 chs.N.of my station.

July 16,1904.at 7 h.00 m.a.m.l.m.t.I lay off the azimuth of Polaris 1°35' to the west and mark the true meridian thus determined by cutting a mark on a stone firmly set in the ground west of the point established this a.m.;the magnetic bearing of said true meridian is N.16° 35'W.,which gives the magnetic declination 16°35'E.

Thence I run

North 0°01'W.bet.secs.35 and 36

Over mountainous land;ascending over slide rock

40.00 Set a sandstone 16x10x4 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

46.83 Intersect N.bdy.of Uintah Indian Reservation,on top of dividing ridge,

Set a sandstone 22x8x5 ins.16 ins.in the ground,for closing cor.of secs.35 and 36;marked C C U I R with 1 groove on S.and 1 groove on E.and U F R on N.faces;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high S.of cor.

SUBDIVISION OF T.5 N.R.5 W.

Chains.

From the closing corner the30th.mile corner on the boundary as established by Deputies A.H.and F.M.Brown, under their contract No.264,bears N.58°45'W.12.29 chs. dist.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 46.83 chs.

From the standard cor.of secs.34 and 35 on S.boundary of township,heretofore described,I run

N.0°02'W.bet.secs.34 and 35

Over mountainous land,and slide rock;ascending.

28.67 Intersect N.bdy.of Uintah Indian Reservation,on top of dividing ridge.

Set a sandstone 16x8x6 ins.11 ins.in the ground,for closing corner of secs.34 and 35;marked C C U I R with 1 groove on S.; 2 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 corner the half-mile corner bet.31st and 32nd mile corners on the boundary as established by Deputies A.H.and F.M.Brown under their contract No.264, bears S.50°45'W.12.35 chs.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 28.67 chs. July 16,1904.

July 17,1904,

From the standard cor.of secs.33 and 34 on S.bdy.of Tp. heretofore described,I run

N.0°02'W.bet.secs.33 and 34

Over mountainous land and heavy slide rock;ascending.

16.05 Intersect N.boundary of Uintah Indian Reservation,on top

SUBDIVISION.OF T.5 N.R.5 W.

Chains. of dividing ridge

Set a sandstone 18x6x5 ins.12 ins.in the ground,for closing corner of secs.33 and 34;marked C C U I R with 1 groove on S.and 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 corner.

From the closing corner,the one-half mile corner between mile posts Nos.32 and 33 on the boundary as established by Deputies A.H.and F.M.Brown,under their contract No. 264,bears N.75°30'W.1.50 chs.dist.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 16.05 chs.

From the standard corner of secs.31 and 32 on S.bdy.of Tp.,heretofore described,I run

N.0°04'W.bet.secs.31 and 32

Over mountainous land and heavy slide rock;

Ascending.

6.92 Intersect north boundary of the Uintah Indian Reservation,on top of dividing ridge,

Set a sandstone 20x8x4 ins.15 ins.in the ground,for closing corner of secs.31 and 32;marked C C U I R with 1 groove on S.and 5 grooves on E.and U F R on N.faces; and raise a mound of stone 2 ft.base 1½ ft.high S.of corner.

From the closing corner the 35th mile corner on the boundary as established by Deputies A.H.and F.M.Brown under their contract No.264,bears as follows:

N.77°W.2.35 chs.to angle corner;thence

S.28°30'W.7.70 chs.to mile post No.35,

Land mountainous.

SUBDIVISION OF T.5 N.R.5 W.

Chains.

Soil stony;4th rate.

No timber.

Mountainous land 6.92 chs.

July 17,1904.

GENERAL DESCRIPTION.

This township is composed entirely of mountainous land. It is situated on the scutheastern slope of the dividing ridge forming the north boundary of the Uintah Indian Reservation.

It is entirely destitute of water and timber.

There are no settlers,and no indications of mineral in this township.

Note:

There being no notary public,or other officer authorized to administer oaths,at the beginning or ending of this survey;therefore,in order to save time and expense,I administer the preliminary and final oaths myself.

James, F

U.S.Deputy Surveyor.

UK A-311

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by James F.Trotter, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisional lines of Township No.5 North,Range No.5 West of the Uintah Special Base and Meridian,Utah, showing the respective capacities in which they acted:

Foster Walker, *Chainman.*

Lyman Judson, *Chainman.*

W.I.Rowland, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

M.Brown, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted James F.Trotter, United States Deputy Surveyor, in surveying all those parts or portions of the the Subdivisional lines of Township No.5 North Range No.5 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.

Foster Walker, *Chainman.*

Lyman Judson, *Chainman.*

W. I. Rowland, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

M Brown, *Flagman.*

Subscribed and sworn to before me this 4th day of Aug, 1904

SEAL

James F. Trotter
U.S. Deputy Surveyor

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, James F. Trotter, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for District of Utah, bearing date of the 22nd day of July, 1903, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivisional lines of Townsh No.5 North, Range No.5 West

of the Uintah Specia 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.

James F. Trotter

United States Deputy Surveyor.

Subscribed by said James F. Trotter, and sworn to before me this 4th 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, September 7, 1904.

The foregoing field notes of the survey of the Subdivisional lines of Township No.5 North Range No.5 West of the Uintah Special Base and Meridian, Ut.

executed by James F. Trotter under his contract No. 273, dated July 22, 1903, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson

United States Surveyor General.

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

_____

United States Surveyor General.

6—151

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BOOK A-311

FILED

JUL 16 1904

FIELD NOTES

OF THE SURVEY OF THE

U-I-N-T-A-H S-P-E-C-I-A-L B-A-S-E L-I-N-E

T-H-R-O-U-G-H

R-A-N-G-E N-O. 8 W-E-S-T

Of the UINTAH SPECIAL *Meridian.*

U-T-A-H

AS SURVEYED BY

Fred Johnson, *United States Deputy Surveyor,*

Under his Contract No. 270, *dated* August 10, 1903, *190*

Survey commenced September 13, *190* 3

Survey completed September 14, *190* 3.

4—111

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

C.W.Heinecke	Chainman,
A.H.Rock	Chainman,
James E.Laughlin	Chainman,
Alf Johnson	Chainman,
Delbert Bowers	Moundman,
W.T.Muse	Axman,
Freemen Bowers	Axman,
Ralph Labrum	Flagman.

6—151

Volume
#
R0311

BOOK A-311

INDEX DIAGRAM.

Township 1 North , *Range* 8 West

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, C.W.Heinecke, A.H.Rock and James E.Laughlin and Alf John do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Uintah Special Base Line through Rs. 8 and 9 W., of the Uintah Special Meridian, Utah.

C. W. Heinecke, Chainman.
A. H. Rock
James E. Laughlin, Chainman.
Alf Johnson, Chainman.

Subscribed and sworn to before me this 17th day of September, 1903, 189

Fred Johnson
U.S. Deputy Surveyor

SEAL

WE, I, Delbert Bowers 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 Uintah Special Base Line through Rs. 8 and 9 W., of the Uintah Special Meridian, Utah.

Delbert Bowers, Moundman.
____, Moundman.

Subscribed and sworn to before me this 17th day of September, 1903 89

Fred Johnson.
U.S. Dep. Surveyor.

SEAL

WE, W.T.Muse and Freemen Bowers 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 Uintah Special Base Line through Rs. 8 and 9 W., of the Uintah Special Meridian, Utah.

W T Muse, Axman.
Freemen Bowers, Axman.

Subscribed and sworn to before me this 17th day of September, 1903. 189

Fred Johnson.
U.S. Dep. Surveyor

SEAL

I, Ralph Labrum, 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 Base Line through Rs. 8 and 9 W., of the Ui Special Meridian, Utah.

Ralph Labrum, Flagman.

Subscribed and sworn to before me this 17th day of September, 1903. 189

Fred Johnson.
U.S. Dep.

SEAL

6—151

UINTAH SPECIAL BASE LINE THROUGH RANGE 8 WEST.

Deputy Washington Jenkins not having completed the survey of the Uintah Special Base through R.8 W.,and the West Bdy.of T.1 N.R.8 W.;and not being able to do so within the present year I find it necessary,in order to proceed with the survey of T.1 N.R.9 W.to survey said lines as follows:

Survey commenced Sept.12,1903,and executed with a W.& L.E.Gurley light mountain transit with solar attachment.

The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc,which is also the least count of the verniers of the latitude and declination arcs.

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

I examine the adjustments of the transit and correct the level and collination 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 standard cor.of Tp.1 N.Rs.7 and 8 W..which is a quartzite stone 6x12x4 ins.above ground marked and witnessed as described by Deputy Francis M.Lyman Jr. under his contract No.274,in lat.40°26'20" N.;longitude 110°45'14" W.I set off 40°26'N.on the lat.arc;4°24'N.on the decl.arc;and at 3 h.00 m.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 8 h.06 m.p.m.l.m.t.I observe Polaris at eastern elongation,in accordance with Manual of Instructions and mark a point on the line thus determined on a plug driven in the ground 5 chs.N.of my station. Sept.12,1903.

UINTAH SPECIAL BASE LINE THROUGH RANGE 8 WEST.

CHAINS Sept.13,1903,at 7 h.0 m.a.m.l.m.t.I lay off the azimuth of Polaris 1°36'to the west and mark the meridian thus determined by cutting a small groove in the stone set Sept.12 on which the meridian falls 0.3 ins.west of the mark determined by the solar.

At 8 h.0 m.a.m.l.m.t.I set off 40°26'N.on lat.arc,4°07' N.on the decl.arc;and mark a point in the meridian determined with the solar by a cross on the stone already set 5 chs.N.of my station;this mark falls 0.3 ins.west of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians,respectively about 0'16" 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 true meridian at 8 h.30'a.m. is N.17°10'W.;the angle thus determined gives the mag. decl.17°10'E.

From the corner above described I run

West on the S.bdy.of sec.36

Over mountainous land;descending.

6.20 Dry wash drains S.

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

Enter scattering pine timber,and brush.

19.00 Dry wash drains S. Ascend.

22.00 Spur projects S. Descend.

38.30 Dry wash drains S.

Difference between measurements of 40.00 chs.by two sets of chainmen is 6 lks.;position of middle point

By 1st set is 40.03 chs.

By 2nd set os 39.97 chs.;the mean of which is

40.00 Set a sandstone 18x9x4 ins.12 ins.in the ground,for $\frac{1}{4}$ 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 impracticable.

From which

UINTAH SPECIAL BASE LINE THROUGH R.8 WEST.

CHAINS.	
	A pine 10 ins.diam.bears N.10°W.230 lks.dist. marked S C $\frac{1}{4}$ S B T
	No other bearing trees within limits.
48.70	Descend abruptly.
49.00	Enter heavy pine timber.
72.00	Wash drains N.W. Ascend.
79.60	Spur projects N.W.
	Difference between measurement of 80.00 chs.by two sets of chainmen is 10 lks.:position of middle point
	By 1st set is 80.05 chs.
	By 2nd set is 79.95 chs.;the mean of which is
80.00	Set a sandstone 30x20x6 ins.22 ins.in the ground for standard cor.to secs.35 and 36;marked S C on N.with 1 groove on E.and 5 grooves on W.faces;from which
	A pinon pine 8 ins.diam.bears N.59°W.54 lks.dist. marked T 1 N R 8 W S 35 B T
	A cedar 5 ins.diam.bears N.75°E.32 lks.dist. marked T 1 N R 8 W S 36 B T
	Land mountainous.
	Soil loam and rocky;2nd and 4th rates.
	Timber pine and cedar 67.50 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Sept.13,1903: At this cor.I set off 40°03'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°26'N.

West on South bdy.of sec.35

	Ascending over mountainous land;through timber.
11.00	Leave timber
12.00	Enter flat.
18.00	Enter willow brush bears N.and S.
22.00	Leave willow brush
22.10	Dry wash drains S.W.

UINTAH SPECIAL BASE LINE THROUGH RANGE 8 WEST.

CHAINS.	
	Ascend.
28.50	Spur projects S.
	Descend.
31.80	Dry wash drains S.W.
33.00	Ascend steep E.slope through dense underbrush.and scattering pine and cedar timber.
	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 sandstone 24x14x4 ins.18 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked S C $\frac{1}{4}$ on N.face;from which
	A pinon pine 30 ins.diam.bears N.54°W.38 lks.dist.
	marked S C $\frac{1}{4}$ S B T
	A cedar 16 ins.diam.bears N.35°E.83 lks.dist.
	marked S C $\frac{1}{4}$ S B T
44.00	Ridge bears N.E.and S.W. ;descend
53.00	Dry wash drains S.W.
	Difference bet.measurement of 80.00 chs.by two sets of chainmen is 16 lks.;position of middle point
	By 1st set 80.08 chs.
	By 2nd set 79.92 chs.;the mean of which is
80.00	Set a sandstone 18x12x3 ins.12 ins.in the ground,for standard cor.of secs.34 and 35;marked S C on N.face;with 2 grooves on E.and 4 grooves on W.faces;;from which
	A cedar 24 ins.diam.bears N.52°30'W.232 lks.dist.
	marked T 1 N R 8 W S 34 B T
	A cedar 30 ins.diam.bears N.5°E.240 lks.dist.
	marked T 1 N R 8 W S 35 B T
	Land mountainous.
	Soil loam and rocky;2nd and 4th rates.
	Timber pine and cedar.
	Mountainous or heavily timbered land 80.00 chs.

UINTAH SPECIAL BASE LINE THROUGH RANGE 8 WEST.

CHAINS.	
	West on south boundary sec.34
	Over mountainous land;through heavy pine timber.
40.00	Difference between measurement of 40.00 chs.by two sets of chainmen is 10 lks.;position of middle point
	By 1st set 40.05 chs.
	By 2nd set 39.95 chs.;the mean of which is
40.00	Set a sandstone 18x12x4 ins.12 ins.in the ground for standard ¼ sec.cor.marked S C ¼ on N.face;from which
	A pinon pine 12 ins.diam.bears N.12°E.156 lks.dist. marked S C ¼ S B T.
	A pinon pine 18 ins.diam.bears N.35°W.223 lks.dist. marked S C ¼ S B T
52.00	Descend.
53.00	Main wash drains S.W.;ascend.
56.00	Spur projects S.W.
76.00	Leave timber bears N.E.and S.W.
	Difference between measurement of 80.00 chs.by two sets of chainmen is 18 lks.;position of middle point
	By 1st set 79.91 chs.
	By 2nd set 80.09 chs.;the mean of which is
80.00	Set a sandstone 16x10x4 ins.11 ins.in the ground,for standard cor.of secs.33 and 34,marked S C on N. face with 3 grooves on E.and W.faces;and raised a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
	Land mountainous.
	Soil loam and rocky;2nd and 4th rate.
	Timber pine on 80.00 chs.
	Mountainous or heavily timbered land80.00 chs.
	Sept.13,1903.

Sept.14: At 8 h.0 m.a.m.l.m.t.I set off 4°26'N.on lat. arc;3°44'N.on decl.arc,and determine a true meridian with the solar at the standard cor.of secs.33 and 34. Thence I run

UINTAH SPECIAL BASE LINE THROUGH RANGE 8 WEST.

CHAINS.

West on south bdy.of sec.33

Over mountainous land;descending.

19.00 Dry wash drains S.W.

29.00 Dry wash drains S.W.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 8 lks.;position of middle point

By 1st set 39.96 chs.

By 2nd set 40.04 chs.;the mean of which is

40.00 Set a trachyte stone 20x11x8 ins.15 ins.in the ground, for standard $\frac{1}{4}$ sec.cor.,marked S C $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.

Pits impracticable.

54.60 Road bears N.and S.

62.00 Enter dense willow undergrowth.

64.00 Right Fork of Du Chesne River,50 lks.wide;drains N.

Difference between measurements of 80.00 chs.by two sets of chainmen is 20 lks.;position of middle point

By 1st set 80.10 chs.;

By 2nd set 79.90 chs.;the mean of which is

80.00 Set a granite stone 16x10x5 ins.11 ins.in the ground for standard cor.of secs.32 and 33;marked S C on N.with 4 grooves on E.and 2 grooves on W.faces;and raised a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.

Pits impracticable.

[illegible] An aspen 8 ins.diam.bears N.52°E.223 lks.dist.

marked T 1 N R 8 W S 33 B T

No other bearing trees within limits.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land or land covered with dense undergrowth

80.00 chs.

Sept.14,1903:At this cor.I set off 3°40'N.on the d cl. arc;and at 11h 56m.a.m.l.m.t.observe the sun on the meridian;the resulting lat.is 40°26'N.

. UINTAH SPECIAL BASE LINE THROUGH RANGE 8 WEST.

CHAINS.	
	West on South bdy.of sec.32
	Through dense underbrush;ascending.
10.00	Top of bench bears N.and S.
	Difference bet.measurements of 40.00 chs.by two sets of chainmen is 10 lks.;position of middle point
	By 1st set is 39.95 chs.
	By 2nd set is 40.05 chs.;the mean of which is
40.00	Set a sandstone 14x10x6 ins.9 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 stones2 ft.base $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
42.00	Ridge bears N W.and S.E. Descend.
51.50	Draw drains S.
	Ascend.
57.50	Spur projects S.;descend.
68.00	Draw drains S.E.;
	Ascend
72.50	Spur projects S.;descend
78.50	Draw drains S.E.
	Difference bet.measurements of 80.00 chs.by two sets of chainmen is 18 lks.;position of middle point
	By 1st.set is 79.91 chs.
	By 2nd set is 80.09 chs.;the mean of which is
80.00	Set a sandstone 30x10x4 ins.15 ins.in the ground for standard cor.of secs.31 and 32;marked S C on N.with 5 grooves on E.and 1 groove on W.faces;and raised a mound of stones 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land or land covered with dense undergrowth
	80.00 chs.

UINTAH SPECIAL BASE LINE THROUGH RANGE 8 WEST.

CHAINS

West on south boundary of sec.31

Over mountainous land;ascending.

3.00 Low ridge bears N.and S.

Enter dense oak brush.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 10 lks.;position of middle point

By 1st set is 39.95 chs.

By 2nd set is 40.05 chs.;the mean of which is

40.00 Set a sandstone 14x10x5 ins.9 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 stones 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.

Pits impracticable.

55.00 Divide; bears N. and S.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 20 lks.;position of middle point

By 1st set 80.10 chs.

By 2nd set 79.90 chs.;the mean of which is

80.00 Set a sandstone 24x10x8 ins.18 ins.in the ground,for base line cor.to Tp.1 N.Rs.8 and 9 W.,marked

S C 1 N.on N.

8 W.on E.and

9 W.on W.faces;;with 6 grooves on N. E. and W. face, from which

A cedar 8 ins.diam.bears N.33°30'E.18l lks.dist.

marked T 1 N R 8 W S 31 B T

No other bearing trees within limits;and raised a mound of stones 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.

Pits impracticable.

Land mountainous.

Soil stony;3rd rate.

No timber.

Mountainous land or land covered with dense undergrowth 80.00 chs.

Sept.14,1903.

UINTAH SPECIAL BASE LINE THROUGH RANGE 8 WEST.

For general description see notes of subdivision of this township.

Fred Johnson
U.S.Deputy Surveyor.

Volume
#
R0311

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

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

_____

showing the respective capacities in which they acted:

For final affidavits see book C. T.1 N., R. 9 W.

_____, *Chainma*

_____, *Chainma*

_____, *Moundm*

_____, *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 represe

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

_____, *Chainman.*

For final affidavits see book C. T. 1. N., R. 9 W.

_____, *Chainman.*

_____, *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 C. T. 1 N., R. 9 W.

_____ 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, Sept. 14, 1904.

The foregoing field notes of the survey of Uintah Special Base Line through Range 8 West, of the Uintah Special Meridian, Utah.

executed by Fred Johnson under his contract No. 276, dated August 10, 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 L. 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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PAGE

4—679.

B.

BOOK A-311

FILED
JUL 16 1904

FIELD NOTES

OF THE SURVEY OF THE

SECOND GUIDE MERIDIAN WEST

O-R

W-E-S-T B-O-U-N-D-A-R-Y

O-F

T-O-W-N-S-H-I-P N-O. 1 N-O-R-T-H

R-A-N-G-E N-O. 8 W-E-S-T

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

Fred Johndon, *United States Deputy Surveyor,*

Under his Contract No. 276, *dated* August 10, *1903*

Survey commenced Sept.15, *1903.*

Survey completed Sept.16, *1903.*

6—151

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

C.W.Heinecke	Chainman
James E.Laughlin	Chainman
A.H.Rock	Chainman
Alf Johnson	Chainman.
Delbert Bowers	Moundman
W.T.Muse	Axman
Freemen Bowers	Axman
Ralph Labrum	Flagman.

6—151

Volume
#
R0311

BOOK A-311

INDEX DIAGRAM.

Township 1 North , *Range* 8 West

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, C.W.Heinecke, James E.Laughlin and A.H.Rock and Alf Johnson 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 Second Guide Meridian West through Tps.1 and 2 North, Range 8 West of the Uintah Special Base and Meridian, Utah.

C.W.Heinecke, Chainman.
James E.Laughlin, Chainman.
A.H.Rock, Chainman.
Alf Johnson, Chainman.

Subscribed and sworn to before me this 15th day of Sept. 1903, 189

SEAL

Fred Johnson
U.S.Dep. Surveyor.

We, I, Delbert Bowers and [illegible] do solemnly swear that I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given me, to the best of my skill and ability, in the survey of the Second Guide Meridian West through Tps.1 and 2 North Range 8 West of the Uintah Special Base and Meridian, Utah.

Delbert Bowers, Moundman.
[illegible], Moundman.

Subscribed and sworn to before me this 15th day of Sept. 1903, 189

SEAL

Fred Johnson
U.S.Dep. Surveyor.

We, W.T.Muse and Freemen Bowers 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 the Second Guide Meridian West through Tps.1 and 2 North Range 8 West of the Uintah Special Base and Meridian, Utah.

W.T.Muse, Axman.
Freemen Bowers, Axman.

Subscribed and sworn to before me this 15th day of Sept. 1903, 189

SEAL

Fred Johnson
U.S.Dep. Surveyor.

I, Ralph Labrum, 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 Second Guide Meridian West through Tps.1 and 2 North, Range 8 West of the Uintah Special Base and Meridian, Utah.

Ralph Labrum, Flagman.

Subscribed and sworn to before me this 15th day of Sept. 1903, 189

SEAL

Fred Johnson
U.S.Dep. Surveyor.

6—151

SECOND GUIDE MERIDIAN WEST OR

WEST BOUNDARY OF TOWNSHIP 1 NORTH RANGE 8 WEST.

CHAINS.	
	For reasons already explained in the survey of the Uintah Special Base line through R.8 W.,I proceed to survey the west bdy.of Tp.1 N.R.8 W.
	Survey commenced Sept.15,1903;and executed with a W.& L. E.Gurley light mountain transit with solar attachment; for a description of which see book "A" of this survey. For complete test of solar apparatus see book "A" of this survey.
	Sept.15,1903,at 8 h.a.m.l.m.t.I set off 40°26'N.on lat. arc;3°21'N.on the decl.arc;and determine a meridian with the solar at the cor.of Tp.1 N.Rs.8 and 9 W.set by me and heretofore described. Thence I run
	North bet.secs.31 and 36
	Over mountainous land;ascending.
2.00	Ridge bears N.E.and S.W. ;descend.
12.00	Draw drains N.W.
	Ascend.
24.00	Spur projects N.W.
	Descend.
33.50	Dry wash drains N.E.
	Difference between measurement of 40.00 chs.by two sets of chainmen is 8 lks.;position of middle point
	By 1st set is 39.96 chs.
	By 2nd set is 40.04 chs.;the mean of which is
40.00	Set a sandstone 20x14x5 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raised a mound of stones 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.
	Pits impracticable.
45.50	Spur projects E.;descend.
49.00	Dry wash drains E.
	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

SECOND GUIDE MERIDIAN WEST,OR WEST BDY.TP.1 NORTH R.8 WEST.

CHAINS

80.00 Set a sandstone 16x10x8 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;and raised a mound of stones 2 ft. base 1½ ft.high W.of cor.Pits impracticable.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 80.00 chs.

North bet.secs.25 nnd 30

Over mountainous land;ascending.

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

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 6 lks.;position of middle point

By 1st set 39.97 chs.

By 2nd set 40.03 chs.;the mean of which is

40.00 Set a sandstone 28x10x3 ins.16 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stones 2 ft.base 1½ ft.high W.of cor.Pits impracticable.

74.00 West Fork of DuChesne River 50 lks.wide,drains N.E.

76.00 Road bears N.E.and S.W.

Difference bet.measurements of 80.00 chs.by two sets of chsinmen is 16 lks.;position of middle point

By 1st.set 79.92 chs.

By 2nd set 80.08 chs.;the mean of which is

80.00 Set a sandstone 18x14x10 ins.12 ins.in the ground for cor.of secs.19,24,25,and 30,marked with 2 notches on S. and 4 notches on N.edges;and raised a mound of stones 2 ft.base 1½ ft.hggh W.of cor.Pits impracticable.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 80.00 chs.

Sept.15,1903At this cor.I set off 3°17'N.on the decl.arc

SECOND GUIDE MERIDIAN WEST OR WEST BOUNDARY OF T.1 NORTH RANGE 8 WEST

CHAINS	
	and;at 11h.56m. a.m., l.m.t.observe the sun on the meridian;the resulting lat.is 40°27'N.
	North bet.secs.19 and 24
	Over mountainous land;ascend over steep rocky south slope.
	Difference bet.measurements of 40.00 chs.by two sets of chainmen is 6 lks.;position of middle point
	By 1st set is 39.97 chs.
	By 2nd set is.40.03 chs.;the mean of which is
40.00	Set a sandstone 24x10x6 ins.18 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raised a mound of stones 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
42.00	Dry wash drains S.E.;ascend.
60.00	Ridge bears S.E.and N.E.
	Enter heavy aspen and pine timber.
	Difference bet.measurements of 80.00 chs.by two sets of chainmen is 12 lks.;position of middle point
	By 1st set 79.94 chs.
	By 2nd set 80.06 chs.;the mean of which is
80.00	Set a sandstone 17x14x8 ins.12 ins.in the ground,for cor.of secs.13,18,19,and 24,marked with 3 notches on N. and 3 notches on S.edges;from which
	An aspen 4 ins.diam.bears S.55°E.132 lks.dist.
	marked T 1 N R 8 W S 19 B T
	An aspen 5 ins.diam.bears S.24°W.75 lks.dist.
	marked T 1 N R 9 W S 24 B T
	A pine 12 ins.diam.bears N.53°E.305 lks.dist.
	marked T 1 N R 8 W S 18 B T
	No other bearing trees within limits;raise a mound of stones 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.

SECOND GUIDE MERIDIAN WEST OR WEST BOUNDARY T.1 NORTH RANGE 8 WEST.

CHAINS.

Timber pine and aspen 20.00 chs.

Mountainous land 80.00 chs.

Sept.15,1903.

Sept.16,1903,at 8 h.30 m.a.m.l.m.t.I set off 40°29'N.on lat.arc;29 58'N.on decl.arc;and determine a true 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;descending steep rocky N.E.slope; through scattering pine timber.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 8 lks.;position of middle point

By 1st set 39.96 chs.

By 2nd set 40.04 chs.;the mean of which is

40.00 Set a sandstone 16x10x8 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which

A pine 18 ins.diam.bears S.42°E.210 lks.dist. marked $\frac{1}{4}$ S 18 B T

No other bearing trees within limits;raise a mound of stones 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.

Pits impracticable.

45.00 Dry wash drains E.

Ascend.

48.00 Spur projects E.

Enter dense undergrowth.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 18 lks.;position of middle point

By 1st set 79.91 chs.

By 2nd set 80.09 chs.;the mean of which is

80.00 Set a sandstone 16x10x7 ins.11 ins.in the ground for cor.to secs.7,12,13,and 18,marked with 2 notches on N.and 4 notches on S.edges;from which

A pine 24 ins.diam.bears S.58°W.245 lks.dist.

SECOND GUIDE MERIDIAN WEST OR WEST BOUNDARY T 1 NORTH R.8 WEST.

CHAINS.	
	marked T 1 N R 9 W S 13 B T
	No other bearing trees within limits;raise a mound of stones 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	Timber scattering pine 80.00 chs. Dense undergrowth on 32.00 chs. Mountainous land 80.00 chs.
	North bet.secs.7 and 12
	Desc nding over mountainous land.
5.00	Gulch drains E.
25.00	North Fork of Du Chesne River 30 lks.wide,drains S.E.
	Enter dense willow brush.
	Difference bet.measurements of 40.00 chs.by two sets of chainmen is 10 lks.;position of middle point
	By 1st set 40.05 chs.
	By 2nd set 39.95 chs.;the mean of which is
40.00	Set a sandstone 14x12x4 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	An aspen 4 ins.diam.bears N.38°30'W.110 lks.dist. marked ¼ S 12 B T
	An aspen 4 ins.diam.bears N.71°E.140 lks.dist. marked ¼ S 7 B T
41.00	Enter heavy aspen timber.
46.00	Leave aspen timber.
59.00	Point of knoll.
75.00	Enter cedars bear E.and W.
	Difference bet.measurements of 80.00 chs.by two sets of chainmen is 18 lks.;position of middle point
	By 1st set 79.91 chs.
	By 2nd set 80.09 chs.;the mean of which is
80.00	Set a sandstone 20x8x6 ins.15 ins.in the ground for cor. of secs.1,6,7,and 12,marked with 1 notch on N.and 5

SECOND GUIDE MERIDIAN WEST, OR WEST BOUNDARY T. 1 NORTH RANGE 8 WEST.

CHAINS	
	notches on S. edges; from which
	A cedar 36 ins. diam. bears S. 41° W. 120 lks. dist.
	marked T 1 N R 9 W S 12 B T
	A cedar 24 ins. diam. bears S. 7° E. 87 lks. dist.
	marked T 1 N R 8 W S 7 B T
	A cedar 18 ins. diam. bears N. 82° W. 168 lks. dist.
	marked T 1 N R 9 W S 1 B T
	No other suitable bearing trees within limits; raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
	Land mountainous.
	Soil rocky; 4th rate.
	Timber aspen and cedar 10.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Sept. 16, 1903, at 11h. 55m. a.m. l.m.t. sky overcast, observation for latitude impossible.
	North bet. secs. 1 and 6
	Over mountainous land; ascending.
2.00	Ridge bears N.W. and S.E.; descend.
31.50	Dry wash drains W.
	Difference bet. measurements of 40.00 chs. by two sets of chainmen is 6 lks.; position of middle point
	By 1st set is 39.97 chs.
	By 2nd set is 40.03 chs.; the mean of which is
40.00	Set a sandstone 16x12x6 ins. 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Ascend.
41.00	Spur projects W.; descend.
46.00	Dry wash drains W.; ascend.
48.00	Spur projects W.; descend.
53.00	Dry wash drains W.; descend.

SECOND GUIDE MERIDIAN WEST OR WEST BOUNDARY T.1 NORTH RANGE 8 WEST.

CHAINS.	
	Enter aspen timber.
	Difference bet.measurements of 80.00 chs.by two sets of chainmen is 12 lks.;position of middle point
	By 1st set 80.06 chs.
	By 2nd set 79.94 chs.;the mean of which is
80.00	Set a trachyte stone 18x12x10 ins.12 ins.in the ground for cor.of Tps.1 and 2 N.Rs.8 and 9 W.,marked with
	2 N on N.E.
	8 W on S.E.
	1 N on S.W.,and
	9 W on N.W.face,with 6 notches on each edge;from which
	An aspen 5 ins.diam.bears N.21°E.40 lks.dist.
	marked T 2 N R 8 W S 31 B T
	An aspen 4 ins.diam.bears N.21°W.37 lks.dist.
	marked T 2 N R 9 W S 36 B T ;and raise a mound of stones 2 ft.base 1½ ft.high S.of cor.
	Pits impracticable.
	No other bearing trees within limits.
	Land mountainous.
	Soil rocky 4th rate.
	Timber aspen 27.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Sept.16,1903.

For general description see subdivision of T.1 N.R. 9 W. U.S.B.and M.

Fred Johnson

U.S.Deputy Surveyor.

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PAGE

BOOK A-311

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.*

For final affidavits see book G. Tp. 2 N.R. 8 W. , *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

For final affidavits see book G. Tp. 2. N. R. 8 W. , *Chainman.*

....., *Chainman.*

....., *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 affidavit see book 4. Tp. 2 N. R. 8 W.

..... 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, Sept. 14, 1904.

The foregoing field notes of the survey of the Second Guide Meridian West through Township 1 North of the Uintah Special Base and Meridian, Utah,

executed by Fred Johnson under his contract No. 376, dated August 10, 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 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.

8—151

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4—679.

C.

BOOK A-311

FILED

JUL 16 1904

FIELD NOTES

OF THE SURVEY OF THE

U-I-N-T-A-H S-P-E-C-I-A-L B-A-S-E L-I-N-E

T-H-R-O-U-G-H

R-A-N-G-E 9 W-E-S-T

Of the UINTAH SPECIAL *Meridian,*

U-T-A-H.

AS SURVEYED BY

Fred Johnson, *United States Deputy Surveyor,*

Under his Contract No. 276, *dated* August 10,1903. ~~, 189~~

Survey commenced Sept.17,1903. ~~, 189~~

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

6—151

NAMES AND DUTIES OF ASSISTANTS.

C.W.Heinecke	Chainman
A.H.Rock	Chainman,
James E.Laughlin	Chainman,
Alf Johnson	Chainman,
Delbert Bowers	Moundman
W.T.Muse	Axman
Freemen Bowers	Axman
Ralph Labrum	Flagman.

For preliminary affidavits see book A, Tp.1 N., R.8 W.

BOOK A-311

INDEX DIAGRAM.

Township 1 North, *Range* 9 West

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

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

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

_____, *Chainman*

_____, *Chainma*

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

_____, *Moundman*

_____, *Moundman*

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

SEAL

_____

_____

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

_____, *Axman*

_____, *Axman.*

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

_____

_____

Survey commenced Sept. 17, 1903, and executed with a W.& L.E.Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, whcih 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, August 30, 1903.

I examine the adjustments of the transit and correct the level and collination 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 ,eridian determined by observations on Polaris I proceed as follows:

At the standard cor. of Tp.1 N.Rs.8 and 9 W., set by me (for reasons already given), and heretofore described; lat.40°26'N.; long. 110°52'W., I set off 40°26'N. on the lat.arc 2°28'N. on the decl.arc; and at 4h.0m.p.m. l.m.t. determine with the solar a true meridian and mark a point thereof on a stone firmly set in the ground 5 chs. N. of the cor.

At 7h.47m. p.m.l.m.t. I observe Polaris at eastern elongation in accordance with Manual of Instructions and mark a point on the line thus determined on a plug driven in the ground 5 chs. N. of my station.

Sept. 17, 1903.

Sept.18, 1903, at 7h.0m. a.m.l.m.t. I lay off the azimuth of Polaris 1°36' to the west and mark the meridian thus determined by cutting a small groove in the stone set Sept.17, on which the meridian falls 0.3 ins. west of the mark determined by the solar.

At 8 h.00 m.a.m.l.m.t. I set off 40°26'N. on the lat.arc

UINTAH SPECIAL BASE LINE THROUGH R.9 WEST.

82°12'N.E.on the decl.arc;and mark a point in the meridian determined with the solar by a cross on the stone already set 5 chs.N.of my station;this mark falls 0.3 ins.west of the meridian established by the Polaris observation. The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 1' 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 true meridian at 8 h.30 m. a.m.l.m.t.is N.17°10'W.;the angle thus determined gives the mag.decl.17°10'E.

From the corner above described I run

West on the S.bdy.of Sec.36

Ascending over mountainous land.

2.00 Top of ridge bears N.E.and S.W.

9.50 Enter scrub aspen timber bears N.& S.

10.00 Draw 25 ft.deep,drains N.;ascend.

16.00 Aspen timber bears N.& S.

27.00 Top of spur 250 ft.high projects N.30°E.;descend.

37.40 Enter scrub aspen bears N.and S.

38.00 Draw 100 ft.deep drains N.10°E.;ascend.

Difference between measurements of 40.00 chs.by 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 red sandstone 24x12x8 ins.18 ins.in the ground for standard ¼ sec.cor.,marked S C ¼ on N.face;from whic

An aspen 4 ins.diam.bears N.19 lks.dist. marked S C ¼ S B T

An aspen 4 ins.diam.bears N.43°E.17 lks.dist. marked S C ¼ S B T

43.00 Leave aspen timber bears N.10°E.and S.10°W.

44.00 Top of spur 80 ft.above draw,projects N.5°E.

UINTAH SPECIAL BASE LINE THROUGH R.9 WEST.

CHAINS.	
	Descend.
50.00	Enter scrub aspen timber bears N.65°E.and S.65°W.
58.00	Leave scrub aspen timber bears N.5°E.and S.5°W.
68.00	Ravine 180 ft.deep,course N.
	Enter scattering pine timber bears N.and S.
	Ascend.
73.00	Top of spur 60 ft.high bears N.4°E.and S.4°W.
77.00	Ravine 40 ft.deep,course N.8°E.
	Ascend.
	Leave scattering pine timber bears N.8°E.and S.8°W.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 10 lks.;position of middle point
	By 1st set 80.05 chs.
	By 2nd set 79.95 chs.;the mean of which is
80.00	Set a grey sandstone 24x8x4 ins.18 ins.in the ground for standard cor.of secs.35 and 36;marked S C on N., with 1 groove on E.and 5 grooves on W.faces;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
	Land mountainous.
	Soil sandy loam,gravelly and rocky;2nd and 4th rate.
	Timber pine and aspen 29.10 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Sept.18,1903:At this cor.I set off 2°07'N.on decl.arc,and at 11h 54m a.m.l.m.t.observe the sun on the meridian;the resulting lat.is 40°26'N.

West on south boundary sec.35

	Over mountainous land;through aspen timber.
4.00	Ascend through scrub aspen bears N.44°E.
8.00	Top of spur 130 ft.high projects N.10°E.
	Descend.
25.00	Ravine 110 ft.deep,drains N.4°E.;
	Ascend along steep N.slope of ridge.

UINTAH SPECIAL BASE LINE THROUGH RANGE 9 WEST.

CHAIN . Difference between measurements of 40.00 chs.by two set of chainmen is 5 lks.;position of middle point

By 1st set 40.02½chs.

By 2nd set 39.97½ chs.;the mean of which is

40.00 Set a red sandstone 18x12x4 ins.12 ins.in the ground for standard ¼ sec.cor.;marked S C ¼ on N.face;from which

An aspen 6 ins.diam.bears N.16°E.26 lks.dist. marked S C ¼ S B T

An aspen 8 ins.diam.bears N.60°W.25 lks.dist. marked S C ¼ S B T

43.00 Top of spur 40 ft.high; projects N. 15° E.

Descend.

50.00 Leave aspen timber bears N.30°E.

57.00 Ravine 180 ft.deep,course N.20°E.

Ascend along N.E.slope of ridge.

Difference between measurements of 80.00 chs.by two sets of chainmen is 12 lks.;position of middle point

By 1st set 80.06 chs.

By 2nd set 79.94 chs.;the mean of which is

80.00 Set a sandstone 16x12x4 ins.11 ins.in the ground for standard cor.of secs.34 and 35;marked S C on N.,with 2 grooves on E.and 4 grooves on W.faces;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.

Pits impracticable.

Land mountainous.

Soil sandy loam,gravelly and rocky;2nd and 4th rate.

Timber pine and aspen 50.00 chs.

Mountainous or heavily timbered land 80.00 chs.

Sept.18,1903.

Sept.19: At 8 h.0 m.a.m.l.m.t.I set off 40°26'N.on lat. arc;1°49'N.on decl.arc;and determine a meridian with the solar at the standard cor.of secs.34 and 35.

Thence I run

UINTAH SPECIAL BASE LINE THROUGH RANGE 9 WEST.

CHAINS.	
	West on S.bdy.of sec.34
	Over mountainous land;through scattering timber.
	Ascend over broken N.slope of ridge.
	Difference between measurements of 40.00 chs. by two 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	Set a porphyry stone 14x9x5 ins.9 ins.in the ground for standard $\frac{1}{4}$ sec.cor.;marked S C $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of corner.
	Pits impracticable.
	At this corner I set a flag to be seen from points west.
42.00	Top of ridge 375 ft.high bears N.25°W.and S.25°E.,divide between Sand Creek and West Fork of DuChesne River.
	Descend.
56.00	Ravine 80 ft.deep;course S.40°E.;ascend.
65.00	Small spur 40 ft.high bears S.30°W.;descend.
73.00	Ravine 70 ft.deep;course S.45°W.;ascend.
79.00	Small spur 60 ft.high projects S.35°W.
	Descend gradual slope.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 14 lks.;position of middle point
	By 1st.set 80.07 chs.
	By 2nd set 79.93 chs.;the mean of which is
80.00	Set a limestone 15x6x4 ins.10 ins.in the ground for standard cor.of secs.33 and 34;marked S C. on N.,with 3 grooves on E.and W.faces;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.
	Land mountainous and broken.
	Soil gravelly and rocky;2nd and 4th rate.
	Timber scattering aspen 80.00 chs.
	Mountainous land 80.00 chs.
	Sept.19:At this corner I set off 1°44'N.on decl.arc;and at 11h 54m a.m.l.m.t.observe the sun on the meridian;the re-

UINTAH SPECIAL BASE LINE THROUGH RANGE 9 WEST.

CHAINS

sulting lat.is 40°26'N.

West on S.bdy.of sec.33

Over mountainous land;through scattering timber;descending.

9.00 Small ravine 90 ft.deep,drains S.50°W.;ascend.

20.00 Spur 150 ft.high;projects S. 40° W. Descend.

25.00 Enter aspen and scattering pine timber bears N.and S.

Difference between measurements of 40.00 chs.by 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 porphyry stone 15x12x6 ins.10 ins.in the ground for standard ¼ sec.cor.;marked S C ¼ on N.face;from whic

An aspen 6 ins.diam.bears N.5°W.30 lks.dist. marked S C ¼ S B T

A pine 6 ins.diam.bears N.31°E.85 lks.dist. marked S C ¼ S B T

42.50 Leave aspen and enter pine timber bears N.45°W.

51.00 Leave pine timber bears N.80°W.and S.80°E'

53.00 Ravine "Red Sandstone Hollow" 100 ft.deep.

Spring branch 3 lks.wide 4 ins.deep;clear water drains N.10°W.;ascend.

56.50 Trail bears NW. and SE.

0.00 Spur 90 ft.high projects N.50°W.

8.00 Ravine 60 ft.deep,drains N.45°W.;ascend.

6.00 Enter aspen bears S.40°E.and N.40°W.

Difference between measurements of 80.00 chs.by two sets of chainmen is 8 lks.;position of middle point

By 1st set 80.04 chs.

By 2nd set 79.96 chs.;the mean of which is

0.00 Set a limestone 14x8x4 ins.9 ins.in the ground for standard cor.of secs.32 and 33;marked S C on N.face;with 4 grooves on E.and 2 grooves on W.face;from which

An aspen 4 ins.diam.bears N.80°W.26 lks.dist.

UINTAH SPECIAL BASE LINE THROUGH RANGE 9 WEST.

CHAINS.

marked T 1 N R 9 W S 32 B T

An aspen 3 ins.diam.bears N.40°E.25 lks.dist.

marked T 1 N R 9 W S 33 B T

Land mountainous.

Soil sandy loam and rocky;2nd and 3rd rates.

Timber pine and aspen 55.00 chs.

Mountainous or heavily timbered land 80.00 chs.

Sept.19,1903.

Sept.20:At 7 h.50 m.a.m.l.m.t.I set off 40°26'N.on lat. arc;1°26'N.on decl.arc;and determine a meridian with the solar at the standard cor.of secs.32 and 33.

Thence I run

West on S.bdy.of sec.32

Over mountainous land;descending through timber.

17.00 Ravine 50 ft.deep,drains N.20°E.

22.00 Spur 40 ft.high bears N.25°E.;descend.

32.00 Leave aspen timber bears N.40°E.and S.40°E.

35.00 Ravine 70 ft.deep,course N.45°E.

Difference between measurements of 40.00 chs.by two sets of chainmen is 7 lks.;position of middle point

By 1st set 40.03½ chs.

By 2nd set 39.96½ chs.;the mean of which is

40.00 Set a limestone 16x8x4 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.

54'00. Top of spur 80 ft.high bears N.60°E.

62.00 Ravine 65 ft.deep;drains N.10°W.

72.00 Top of spur 70 ft.high projects N.20°W.

Difference between measurements of 80.00 chs.by two sets of chainmen is 16 lks.;position of middle point

By 1st set 80.08 chs.

By 2nd set 79.92 chs.;the mean of which is

UINTAH SPECIAL BASE LINE THROUGH RANGE 9 WEST.

CHAINS.	
80.00	Set a sandstone 15x10x4 ins.10 ins.in the ground for standard cor.of secs.31 and 32;marked S C on N..with 5 grooves on E.and 1 groove on W.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
	Land mountainous.
	Soil sandy loam and rocky;1st and 4th rate.
	Timber aspen 32.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Sept.20,1903:At this cor.I set off 1°21'N.on decl.arc;an at 11h 54m a.m. l.m.t.observe.the sun on the.meridian;the resulting lat.is 40°26'N.

West on S.bdy.of sec.31

	Over mountainous land;through scattering timber;ascend.
8.00	Top of spur 30 ft.above draw,projects N.40°W.
16.00	Small ravine 40 ft.deep,drains N.35°W.
19.00	Spur 40 ft.high projects N.40°W.
21.00	Ravine 60 ft.deep,Left Fork of Little Sand Creek.
	Spring branch 5 lks.wide,4 ins.deep,course N.
25.00	Enter aspen timber bears N.and S.
	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 sandstone 14x12x4 ins.9 ins.in the ground for standard ¼ sec.cor.,marked S. C ¼ on N.face;from which
	An aspen 6 ins.diam.bears N.37°W.40 lks.dist.
	marked S C.¼ S B T
	No other bearing trees within limits;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
56.00	Top of spur 70 ft.above ravine;projects S.40°E.;descend.
71.00	Leave aspen timber bears N.50°W.and S.50°E.

UINTAH SPECIAL BASE LINE THROUGH RANGE 9 WEST.

CHAINS.

Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks.; position of middle point

By 1st set 80.05 chs.

By 2nd set 79.95 chs., the mean of which is

80.00 Set a porphyry stone 24x18x6 ins. 18 ins. in the ground for standard cor. of Tps. 1 N. Rs. 9 and 10 W.; marked T. 1 N., S. C. 1 N. on N. face

9 W on E.

10 W on W. face, with 6 grooves on N.E. and W. faces; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor.

Pits impracticable.

Land mountainous.

Soil sandy loam and rocky 2nd and 4th rate.

Timber aspen 71.00 chs.

Mountainous or heavily timbered land 80.00 chs.

Sept. 20, 1903.

Sept. 20. At this cor. st 7 h. 38 m. p.m. By my watch which is 3 minutes fast of local mean time I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a wooden peg set in the ground 5 chs. N. of my station.

Sept. 21, at 7 h. 30 m. a.m. I turned off the azimuth of Polaris 1°35' to the west and marked the meridian thus determined by cutting s mark in a stone firmly set in the ground west of the mark established last night.

From the true meridian I turned to the signal erected at the standard ¼ sec. cor. on the S. bdy. of sec. 34, and read the angle as follows:

1. 89°59'00"
2. 89°59'00"
3. 89°58'30" mean 89°58'50"

UINTAH SPECIAL BASE LINE THROUGH RANGE 9 WEST.

The observed bearing is N.89°58'50" E.

The true bearing is N.89°58'43" E.

The difference 0° 0' 7"

is the deviation of the standard north of the true latitude curve. As the difference is probably less than the errors of observation, I consider the standard base satisfactorily established.

For general description see notes of subdivision of T.1 N.R.9 W.U.S.B.& M.

Fred Johnson.

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 Fred Johnson, 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 Base Line through Rs8 and 9 W. of the Uintah Special Meridian, Utah, showing the respective capacities in which they acted:

C.W.Heinecke, Chainman; A.H.Rock, Chainman.

James E.Laughlin Chainman. Alf Johnson, Chainman.

Delbert Bowers, Moundman.

W.T.Muse, Axman.

Freemen Bowers, Axman.

Ralph Labrum, Flagman.

, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Fred Johnson, United States Deputy Surveyor, in surveying all those parts or portions of the Uintah Special Base Line through Rs. 8. and 9 W.

of the Uintah Special 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.

James E. Laughlin, C. W. Heinecke, Chainman.

Alf Johnson, A. H. Rock, Chainman.

Delbert Bowers, Moundman.

, Moundman.

W. T. Muse, Axman.

Freemen Bowers, Axman.

Ralph Labrum, Flagman.

Subscribed and sworn to before me this 20th day of September, 1905

SEAL

Fred Johnson

U.S. Dep. Surveyor.

6-151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Fred Johnson, 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 10th day of August, 1903, xxx, 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 Base Line through Rs. 8 and 9 W.

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.

in books A & C

Fred Johnson.
United States Deputy Surveyor

Subscribed by said Fred Johnson, and sworn to before me this 16th day of July, 1904.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 14, 1904, 189

The foregoing field notes of the survey of the Uintah Special Base Line through R. 9 W.

executed by Fred Johnson under his contract No. 276, dated August 10, 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.

D.

BOOK A-311

FILED
JUL 16 1904

L.H.

FIELD NOTES

OF THE SURVEY OF THE

WEST AND NORTH BOUNDARIES

OF

TOWNSHIP NO. 1 NORTH

RANGE NO. 9 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

IN THE STATE OF UTAH

AS SURVEYED BY

Fred Johnson, *United States Deputy Surveyor,*

Under his Contract No. 276, *dated* August 10,1903. ~~190~~.

Survey commenced September 21 *1903*

Survey completed September 25 *1903.*

6—151

West Bdy Lgh Closing 5.34 58' 6.88'

North Bdy Lgh Closing 4.41.00' 6.80'

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

Chas.Walter Heinecke	Chainman,
A.H.Rock	Chainman,
Delbert Bowers	Moundman
Freemen Bowers	Axman
W.T.Muse	Axman
Ralph Labrum	Flagman.

BOOK A-311

INDEX DIAGRAM.

Township 1 North, *Range* 9 West

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Chas. Walter Heinecke and A.H.Rock do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; tha we will report the true distances to all notable objects, and the true lengths of all lines that we assist i measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey o West and North Bdys.of T.1 N.R.9 W. of the Uintah Special Base and Me dian.Utah,

Chas. Walter Heinecke, Chainman

A H Rock, Chainman

Subscribed and sworn to before me this 21st day of September, 1903, 189

Fred Johnson
U.S.Dep. Surveyor

SEAL

We, I, Delbert Bowers 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 West and North Bdys.T.1 N.R.9 W.of the Uintah Special Base and Meri- dian, Utah,

Delbert Bowers, Moundman.

, Moundman.

Subscribed and sworn to before me this 21st day of Sept. 1903, 189

Fred Johnson
U.S.Dep. Surveyor

SEAL

We, W.T.Muse and Freemen Bowers 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 West and North Bdys.of T.1 N.R.9 W.of the Uintah Special Base and Mer dian, Utah,

W T Muse, Axman.

Freemen Bowers, Axman.

Subscribed and sworn to before me this 21st day of Sept, 1903, 189

Fred Johnson,
U.S. Dep. Surveyor.

SEAL

I, Ralph Labrum, 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 West and North Bdys.of T.1 N.R.9 W.of the Uintah Special Base and Meridian, Utah,

Ralph Labrum, Flagman.

Subscribed and sworn to before me this 21st day of Sept. 1903, 189

Fred Johnson
U.S. Dep. Surveyor.

SEAL

WEST BOUNDARY OF T 1 N R 9 W

Survey commenced Sept.21,1903,and executed with a W.& L.E.Gurley Light Mountain transit,with solar attachment; for a description of which see book A of this survey. For a complete test of solar apparatus see book C of this survey.

I begin at the standard corner of Tp.1 N.Rs.9 and 10 W.,set by me and heretofore described,and run,North on true meridian established by me Sept.20,1903 in survey of Uintah Special Base,North bet.secs.31 and 36

Over mountainous land;ascending.

20.00 Top of spur 20 ft.high bears S.30°E.

Enter scrub aspen timber bears E.and W.

33.00 Leave aspen timber bears N.45°E.and S.40°W.

Descend abruptly.

40.00 Set a porphyry stone 14x11x10 ins.9 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.

Pits impracticable.

44.00 Enter scattering pines and dense brush;also scrub aspen bears E.and W.

57.00 Canon,Right Fork of Little Sand Creek

Spring branch 8 lks.wide 5 ins.deep,course E.

Leave pine and aspen timber bears E.and W.

Ascend abruptly.

73.00 Top of spur 300 ft.high projects N.75°E.

75.00 Enter pine and aspen timber bears E.and W.

80.00 Set red sandstone 16x12x8 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 16 ins.diam.bears S.66°W.22 lks.dist.
marked T 1 N R 10 W S 36 B T

A pine 14 ins.diam.bears N.61°30'W.105 lks.dist.
marked T 1 N R 10 W S 25 B T

An aspen 4 ins.diam.bears N.77°30'E.56 lks.dist.
marked T 1 N R 9 W S 30 B T

WEST BOUNDARY OF T.1 N.R.9 W

CHAINS.	
	An aspen 3 ins.diam.bears S.63°E.52 lks.dist. marked T 1 N R 9 W S 31 B T
	Land mountainous.
	Soil sandy and rocky 2nd and 4th rates.
	Timber pine and aspen 31.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Sept.21,1903: At this cor.I set off 0°58'N.on decl.arc; and at 11h.53m.a.m.l.m.t.,observe the sun on the meridia; the resulting lat.is 40°27'N.
	North bet.secs.25 and 30
	Over mountainous land;descending abruptly.
17.00	Enter willows bear S.80°W.and N.80°E.
24.00	West Fork of Du Chesne River 50 lks.wide,14 ins.deep, drains N.80°E.;clear water;rocky bottom.
26.00	Leave willows bear N.80°E.and S.80°W.
30.00	Indian or cattle trail bears E.and W.
40.00	Set red sandstone 20x14x4 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
42.00	Spur projects S.W.;descend.
55.00	Ravine 60 ft.deep,course S.60°W.
	Ascend gradually.
75.00	Top of spur 80 ft.high bears S.80°W.;descend.
80.00	Set a porphyry stone 15x7x6 ins.10 ins.in the ground for cor.of secs.19,24,25,and 30,marked with 2 notches on S.and 4 notches on N.edge;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil sandy loam and gravelly 2nd and 3rd rate.
	No timber.
	Mountainous land,or land covered with dense undergrowth 80.00 chs.

ST BOUNDARY OF T N R 9 W

CHAINS.	
	Sept.22,1903:At 8h.0m.a.m.l.m.t.I set off 40°28'N.on lat.arc0°39'N.on decl.arc;and determine a true meridian with the solar at the cor.of secs.19,24,25,and 30; Thence I run
	North bet.secs.19 and 24
	Over mountainous land;descending.
3.00	Ravine 50 ft.deep,course S.45°W.;ascend.
13.00	Enter scrub aspen and willows bear N.40°E.and S.40°W.
20.00	Enter scattering pines and aspen;leave willows bear E. and W.
40.00	Set a porphyry stone 15x6x6 ins.10 ins.in the ground, for ¼ sec.cor..marked ¼ on W.face;from which
	An aspen 4 ins.diam.bears N.74°30'W.26 lks.dist.
	marked ¼ S 24 B T
	A pine 5 ins.diam.bears N.53°E.3 lks.dist.
	marked ¼ S 19 B T
47.00	Top of spur 80 ft.high bears N.80°E.
	Enter dense pine timber bears E.and W.;descend.
55.00	Draw 80 ft.deep,course E.
	Leave pine and enter aspen timber bears E.and W.
	Ascend.
80.00	Set a porphyry stone 18x9x6 ins.12 ins.in the ground for cor.of secs.13,18,19,and 24;marked with 3 notches on S.and 3 notches on N.edges;from which
	An aspen 8 ins.diam.bears N.20°E.215 lks.dist.
	marked T 1 N R 9 W S 18 B T
	An aspen 4 ins.diam.bears N.67°W.34 lks.dist.
	marked T 1 N R 10 W S 13 B T
	An aspen 3 ins.diam.bears S.49°E.45 lks.dist.
	marked T 1 N R 19 W S 19 B T
	An aspen 3 ins.diam.bears S.42°W.53 lks.dist.
	marked T 1 N R 10 W S 24 B T
	Land mountainous.
	Soil sandy loam and rocky;3rd and 4th rate.
	Timber pine and aspen @2.00 chs.

WEST BOUNDARY T.1 N.R.9 W.

CHAINS	
	Mountainous or heavily timbered land 80.00 chs.
	Sept.22,1903 At this cor.I set off 0°34'N.on decl.arc,and at 11h 53m a.m. l.m.t.observe the sun on the meridian;the resulting lat.is 40°29'N.
	North bet.secs.13 and 18
	Over mountainous land;through aspen timber;ascend.
28.00	Top of ridge 280 ft.high bears E.and W.
	Leave aspen timber bears E.and W.
29.00	Enter dense pine timber,bears N.80°E.and S.80°W.
40.00	Set a sandstone 20x10x8 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 16 ins.diam.bears N.45°E.13 lks.dist.
	marked ¼ S 18 B T
	A pine 14 ins.diam.bears N.43°W.43 lks.dist.
	marked ¼ S 13 B T
	Descend.
72.00	Ravine,bottom of Wolf Creek Canon 350 ft.deep,course S. 80°E.;no water.
	Leave pines and enter aspen timber bears S.80°E.and N. 80°W.
75.20	Trail bears easterly and westerly.
78.00	Small dry lake 3 ch.diam.1 ch.E.of line.
80.00	Set a porphyry stone 18x6x6 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
	An aspen 10 ins.diam.bears N.36°E.29 lks.dist.
	marked T 1 N R 9 W S 7 B T
	An aspen 10 ins.diam.bears S.46°E.105 lks.dist.
	marked T 1 N R 9 W S 18 B T
	An aspen 9 ins.diam.bears S.20°W.42 lks.dist.
	marked T 1 N R 10 W S 13 B T
	An aspen 11 ins.diam.bears N.33°W.13 lks.dist.
	marked T 1 N R 10 W S 12 B T

WEST BOUNDARY T.1 N.R.9 W.

CHAINS.	
	Small mountain lake bears W.20 lks.dist.;3 chs.diam.
	Land mountainous.
	Soil sandy loam and rocky;3rd and 4th rate.
	Timber pine and aspen 80.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Sept.22,1903.
	Sept.23,1903: At 8 h.a.m.l.m.t.I set off 40°30'N.on lat. arc;0°16'N.on decl.arc;and determine a true meridian with the solar;at the cor.of secs.7,12,13 and 18.
	Thence I run
	North bet.secs.7 and 12
	Over mountainous land;ascending through dense aspen timber.
40.00	Set a sandstone 15x10x6 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	An aspen 7 ins.diam.bears S.81°W.26 lks.dist. marked ¼ S 12 B T
	An aspen 6 ins.diam.bears N.55°E.37 lks.dist. marked ¼ S 7 B T
	This ¼ sec.cor.is in dense aspen and balsam timber.
	Continue through dense pine and balsam.
80.00	Set a porphyry stone 15x10x6 ins.10 ins.in the ground for cor.of secs.1,6,7,and 12;marked with 5 notches on S. and 1 notch on N.edges;from which
	A balsam 8 ins.diam.bears N.31°E.75 lks.dist. marked T 1 N R 9 W S 6 B T
	A pine 24 ins.diam.bears S.63°E.53 lks.dist. marked T 1 N R 9 W S 7 B T
	A balsam 16 ins.diam.bears S.40°W.21 lks.dist. marked T 1 N R 10 W S 12 B T
	A balsam 6 ins.diam.bears N.34°W.37 lks.dist. marked T 1 N R 10 W S 1 B T
	Land mountainous.

WEST BOUNDARY OF T.1 N.R.9 W.

CHAINS.

Soil loam and rocky 3rd and 4th rates.

Timber aspen,pine,and balsam 80.00 chs.

Mountainous or heavily timbered land 80.00 chs.

North bet.secs.1 and 6

Over mountainous land;ascending through pine and balsam timber.

31.58 Intersect West boundary of the Uintah Indian Reservation

Set a sandstone 26x18x5 ins.19 ins.in the ground for closing corner of secs.1 and 6;marked C C U I R with 6 grooves on S.,6 grooves on E.and U.F.R.on N.faces;from which

A pine,6 ins.diam.,bears S.31°30'E.,43 lks.dist., marked T 1 N R 9 W S 6 B T.

A pine,6 ins.diam.,bears S. 4°W.,30 lks.dist., marked T 1 N R 10 W S 1 B T.

From the closing corner the half-mile corner bet.the 167th and 168th mile corners on the Uintah Reservation boundary as established by Deputies A.H.and F.M.Brown under their contract No.264,bears N.33°W.6.88 chs.

Land mountainous.

Soil sandy loam and rocky;3rd and 4th rates.

Timber pine and balsam 31.58 chs.

Mountainous land 31.58 chs. Sept.23,1903.

For general description see notes of the subdivision of this township.

NORTH BOUNDARY T.1 N.R.9 W.

CHAINS	
	Survey commenced Sept.24,1903,and executed with a W.& L.E E.Gurley light mountain transit with solar attachment, for a description of which see book"A"of this survey. For complete test of solar apparatus see book"C" of this survey.
	Knowing from previous survey of W.bdy.of Tp.that the north boundary of T.1 N.R.9 W.will intersect the West boundary of the Uintah Indian Reservation,I proceed as follows:-
	Sept.24,1903,at 8 h.15 m.a.m.l.m.t.I set off 40°32'N. on the lat.arc;0°08'S.on the decl.arc and determine a meridian with the solar at the cor.of Tps.1 and 2 N.Rs. 8 and 9 W.,heretofore described.
	Thence I run
	West on a true line bet.secs.1 and 36
	Descending abruptly over mountainous.land.
36.00	Creek 4 lks.wide,3 ins.deep,300 ft.below corner,drains S.60°W.
40.00	Set a porphyry stone 14x10x8 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
56.00	Spur projects S.E.
71.00	Enter brush and scattering pine timber bears N.10°W.and S.10°E.
79.00	North Fork of Du Chesne River 50 lks.wide and 8 ins.deep drains S.40°E. Banks about 4 ft.high;clear water.
80.00	Set sandstone 15x6x4 ins.10 ins.in the ground for cor. of secs.1,2,35,and 36,marked with 1 notch on E.and 5. notches on W.edge;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.;from which
	A pine 14 ins.diam.bears S.38°E.174 lks.dist. marked T 1 N R 9 W S 1 B T
	A pine 15 ins.diam.bears S.25°30'W.238 lks.dist. marked T 1 N R 9 W S 2 B T

NORTH BOUNDARY T.1 N.R.9 W.

CHAINS

A pine 10 ins.diam.bears N.14°W.238 lks.dist.
marked T 2 N R 9 W S 35 B T

No other trees within limits.

Land mountainous.

Soil sandy and rocky 2nd and 4th rate.

Timber pine 9.00 chs.

Mountainous land 80.00 chs.

Sept.24,1903,at this cor.I set off 0°12'S.on decl.arc;an at 11h 52m a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40°32'N.

West bet.secs.2 and 35

Over mountainous land through scattering pine timber.

4.00 Leave pine timber bears N.45°W.and S.45°E.

Ascend abruptly.

11.00 Enter scrub aspen,bears N.and S.

40.00 Set red sandstone 15x10x5 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.;from which

An aspen 3 ins.diam.bears N.5°W.19 lks.dist.
marked $\frac{1}{4}$ S 35 B T

An aspen 3 ins.diam.bears S.16°W.30 lks.dist.
marked $\frac{1}{4}$ S 2 B T

42.00 Descend.

65.00 Small draw 40 ft.deep.drains N.25°E.

Enter dense aspen timber;

Ascend abruptly.

79.00 Spur 80 ft.high bears N. and S.

80.00 Set porphyry stone 16x9x4 ins.11 ins.in the ground for cor.of secs.2,3,34,and 35,marked with 2 notches on E. and 4 notches on W.edges;from which

An aspen 6 ins.diam.bears N.47°E.16 lks.dist.
marked T 2 N R 9 W S 35 B T

A pine 5 ins.diam.bears S.10°E.33 lks.dist.

NORTH BOUNDARY T.1 N.R.9 W.

CHAINS	
	marked T 1 N R 9 W S 2 B T
	An aspen 4 ins.diam.bears S.64°W.104 lks.dist.
	marked T 1 N R 9 W S 3 B T
	An aspen 3 ins.diam.bears N.47°W.29 lks.dist.
	marked T 2 N R 9 W S 34 B T
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	Timber aspen and pine 73.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Sept.24,1903.
	Sept.25: At 8 h.30 m a.m.l.m.t.I set off 40°32'N.on lat. arc;0°32'S.on decl.arc;and determine a true meridian with the solar at the cor.of secs.2,3,34,and 35.
	Thence I run
	West bet.secs.3 and 34
	Descending through aspen timber.
1.00	Leave aspen bears N.and S.
5.00	Enter dense pine timber bears N.10°E.and S.10°W.
40.00	Set sandstone 15x10x6 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 7 ins.diam.bears N.15°E.38 lks.dist.
	marked ¼ S 34 B T
	A pine 14 ins.diam.bears S.6°W.7 lks.dist.
	marked ¼ S 3 B T
43.00	Draw 60 ft.deep,drains N.20°E.
	Ascend abruptly.
60.00	Ridge 120 ft.high bears S.E.and N.W.;divide between North and West Forks of Du Chesne River.
73.00	Leave dense pine and aspen timber bears S.40°E.and N.40° W.
80.00	Set a porphyry stone 15x9x8 ins.10 ins.in the ground for cor.of secs.3,4,33,and 34,marked with 3 notches on E. and 3 notches on W.edges;and raise a mound of stone 2

NORTH BOUNDARY T.1 N.R.9 W.

CHAINS.

ft.base 1½ ft.high W.of cor.;from which

An aspen 6 ins.diam.bears N.56°E.46 lks.dist.
marked T 2 N R 9 W S 34 B T

An aspen 6 ins.diam.bears N.13°W.105 lks.dist.
marked T 2 N R 9 W S 33 B T

No other suitable bearing trees within limits.

A grove of small aspen bears N.50 lks.dist.

Spring brars N.W.40.00 chs.dist.

Land mountainous.

Soil loam and rocky;2nd and 4th rate.

Timber aspen and pine 69.00 chs.

Mountainous or heavily timbered land 80.00 chs.

West bet.secs.4 and 33

3.00 Rhodes'Canon wagon road bears N.W.and S.E.

4.00 Draw,bottom of Right Fork of Rhodes' Canon,bears S.
Ascend.

17.00 Enter pine timber bears N.W.and S.E.

40.00 Set a sandstone 15x10x4 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

A pine 6 ins.diam.bears S.48°E.70 lks.dist.
marked ¼ S 4 B T

A pine 5 ins.diam.bears N.56°W.58 lks.dist.
marked ¼ S 33 B T

Ascend.

47.00 Spur 70 ft.high projects S.40°E.;descend.

71.00 Draw 60 ft.deep,drains S.85°E.
Leave timber;ascend.

80.00 Set a limestone 20x8x4 ins.15 ins.in the ground for cor of secs.4,5,32 and 33;marked with 4 notches on E.and 2 notches on W.edge;and raise a mound of stone 2 ft.base 1½ ft.high W.of corner.Pits impracticable.

Cor.on flat about 6 chs.wide and 10 chs.long.

No [illegible] within limits.

NORTH BOUNDARY T.1 N.R.9 W.

CHAINS.	
	Land mountainous.
	Soil loam and rocky;2nd and 4th rate.
	Timber pine 54.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Sept.25:Sky overcast;observation for lat.impossible.
	West bet.secs.5 and 32
	Ascend through scattering pine timber.
40.00	Set a quartzite stone 15x8x6-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.61°E.60 lks.dist.
	marked 1/4 S 32 B T
	A pine 10 ins.diam.bears S.48°30'W.84 lks.dist.
	marked 1/4 S 5 B T
41.00	Intersect West Boundary of the Uintah Indian Reservation,
	Set a sandstone 24x18x9 ins.18 ins.in the ground for closing cor.of secs.5 and 32,marked C C U I R with 5 grooves on E.,6 grooves on S.,and UFR on W.faces;from which
	A pine,5 ins.diam.,bears N.29°E.,27 lks.dist.,
	marked T 2 N R 9 W S 32 B T.
	A pine,12 ins.diam.,bears S.37°30'E.,26 lks.dist..
	marked T 1 N R 9 W S 5 B T.
	From the closing cor.the 170th mile cor.on the reservation boundary,as established by Deputies A.H.and F.M. Brown bears as follows:
	N.4°30'W.4.80 chs.;thence
	N.83°45'E.1.50 chs.to mile post No.170.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine 41.00 chs.
	Mountainous land 41.00 chs.
	Sept.25,1903.

NORTH BOUNDARY T.1 N.R.9 W.

For general description see subdivisions of this township.

Fred Johnson.
U.S.Deputy Surveyor.

Latitudes, Departures, and Closing Errors.

Line Designated	True Bearing	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs
Uintah Special Base through R.9 W.	West	480.00	.....	.....	.....	80.0
W.bdy.T.1 N.R.9 W.	North	431.58	431.58	.....	.....	....
W.Bdy.Uintah Indian Res.	S.33°E.	8.42	.....	7.06	4.58	....
	S.46°E.	7.30	.....	5.07	5.25	....
	S.7°15'E.	8.90	.....	8.83	1.12	....
	S.69°15'E.	28.40	.....	10.06	26.56	....
	N.89°15'E.	20.10	..0.26	.....	20.10	....
	N.56°30'E.	77.60	42.83	.....	64.71	....
	N.4°30'W.	36.10	35.99	.....	.....	2.8
N.Bdy.T.1 N.R.9 W.	East	361.00	.....	.....	361.00	....
E.Bdy. T.1 N.R.9 W.	South	480.00	.....	480.00	.....	....
Convergency ...					0.62	
Totals			510.66	511.02	483.94	482.8
				510.66	482.83	
Error in lat.and dep				.36	1.11	

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Fred. Johnson, 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 and North Bdys. of T.1 N.R.9 W. of the Uintah Special Base and Meridian, Utah, showing the respective capacities in which they acted:

Chas. Walter Heinecke, *Chainman.*

A.H. Rock, *Chainman.*

Delbert Bowers, *Moundman.*

, *Moundman.*

Freemon Bowers, *Axman.*

W. T. Huse, *Axman.*

Ralph Labrum, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Fred Johnson, United States Deputy Surveyor, in surveying all those parts or portions of the West and North Bdys. of T.1 N.R.9 W of the Uintah Special Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Chas. Walter Heinecke, *Chainman.*

A.H. Rock, *Chainman.*

, *Moundman.*

Delbert Bowers, *Moundman.*

W. T. Huse, *Axman.*

Freemon Bowers, *Axman.*

Ralph Labrum, *Flagman.*

Subscribed and sworn to before me this 25th day of Sept. 1903, 189

SEAL

Fred Johnson
U.S. Dep. Surveyor.

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Fred Johnson, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Elrard H.Anderson United States Surveyor General for Utah, bearing date of the 10th day of August,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 West and North Bdys.of T.1 N., R.1 W.

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

Fred Johnson
United States Deputy Surveyor.

Subscribed by said Fred Johnson, and sworn to before me this 16th day of July 1904

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City,Utah.Sept. 14, 1904 190

The foregoing field notes of the survey of the West and North Bdys.of T.1 N.R.1 W. of the Uintah Special Base and Meridian, Utah,

executed by Fred Johnson under his contract No. 276, dated August 10,1903, 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 is has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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FILED

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BOOK A-311

FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-I-V-I-S-I-O-N

O-F

T-O-W-N-S-H-I-P N-O. 1 N-O-R-T-H

R-A-N-G-E N-O. 9 W-E-S-T

Of the UINTAH SPECIAL BASE AND *Meridian,*

I-N T-H-E S-T-A-T-E O-F U-T-A-H

AS SURVEYED BY

Fred Johnson, *United States Deputy Surveyor,*

Under his Contract No. 276, *dated* August 10,1903, ~~190~~

Survey commenced September 26, *1903*

Survey completed October 16, *1903.*

6—151

High 57-14-17

Clearings

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

Chas.Walter Heinecke	Chainman
A.H.Rock	Chainman,
Delbert Bowers	Moundman
W.T.Muse	Axman
Freemen Bowers	Axman
Ralph Labrum	Flagman.

6—151

BOOK A-311

INDEX DIAGRAM.

Township 1 North, *Range* 9 West

6 53 52	5 38 51	4 29 38	3 19 28	2 9 18	1 9
7 50 49	8 37 48	9 27 36	10 17 26	11 8 16	12 7
18 47 46	17 35 45	16 25 34	15 16 24	14 6 15	13 5
19 45 44	20 33 43	21 24 33	22 14 23	23 5 13	24 4
30 42 41	29 32 40	28 22 31	27 12 21	26 3 11	25 2
31 39	32 30	33 20	34 10	35 1	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Chas. Walter Heinecke and A.H.Rock

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 Subdivisional lines of T.1 N.R.9 W., of the Uintah Special Base an Meridian, Utah.

Chas. Walter Heinecke, Chainman.

A H Rock, Chainman.

Subscribed and sworn to before me this 26th day of September, 1903.

Fred Johnson
U.S. Dep. Surveyor.

SEAL

We, I, Delbert Bowers 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 my skill and ability, in the survey of the Subdivisional lines of T.1 N.R.9 W. of the Uintah Special Base and Meridian, Utah.

Delbert Bowers, Moundman.

, Moundman.

Subscribed and sworn to before me this 26th day of September, 1903

Fred Johnson
U.S. Dep. Surveyor

SEAL

We, W.T.Muse and Freemen Bowers

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 the Subdivisional lines of T.1 N.R.9 W. of the Uintah Special Base and Meridian, Utah.

W T Muse

, Axman.

Subscribed and sworn to before me this 26th day of September, 1903

Fred Johnson
U.S. Dep. Surveyor.

SEAL

I, Ralph Labrum, 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 Subdivisional lines of T.1 N.R.9 W. of the Uintah Special Base and Meridian, Utah.

Ralph Labrum, Flagman.

Subscribed and sworn to before me this 26th day of September, 1903

Fred Johnson
U.S. Dep. Surveyor.

SEAL

6—151

SUBDIVISION OF T.1 N.R.9 W.

Chains.	
	Survey commenced Sept.26,1903,and executed with a W.& L.E.Gurley Light Mountain transit,with solar attachment, for a complete description of which see book "A"
	For complete test of solar apparatus see book "C" of this survey.
	Sept.26,1903,at 8 h.00 m.a.m.l.m.t.I set off 41°26'N.on the lat.arc,0°55'S.on the decl.arc,and determine a meridian with the solar at the standard cor.of secs.35 and 36 on the Uintah Special Base line,heretofore described.
	Thence I run
	N.0°01'W.bet.secs.35 and 36
	Over mountainous land;through scattering pine timber;descending along E.slope.
14.00	Ravine 40 ft.deep,drains E.;ascend.
19.50	Top of spur 50 ft.high bears easterly.
	Descend.
	Leave scattering pine timber.
30.00	Enter aspen timber bears E.and W.
32.00	Draw 30 ft.deep,drains S.80°E.
	Leave aspen.
40.00	Set red sandstone 16x8x4 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of corner.Pits impracticable. This ¼ sec.cor.stands on bare side of ridge,sloping S.E. 70 ft.above bottom of draw.
41.00	Top of ridge 25 ft.above cor.bears N.80°W.and S.80°E.
	Descend.
53.00	Enter small aspen bears E.and W.
56.00	Draw 40 ft.deep,course N.50°E.
57.50	Top of spur 40 ft.high bears N.60°E.
61.00	Ravine 60 ft.deep,drains N.85°E.;ascend.
80.00	Set a sandstone 16x6x4 ins.11 ins.in the ground for cor. of secs.25,26,35,and 36,marked with 1 notch on S.and E.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS edge;and raise a mound of stone 2 ft.base 1½ ft.high W. of cor.Pits impracticable.

An aspen 4 ins.diam.bears N.70°30'W.1.75 chs.dist. marked T 1 N R 9 W S 26 B T

No other bearing trees in limits.

Land mountainous.

Soil sandy loam;gravelly,and rocky;2nd and 4th rates.

Timber pine and aspen 38.50 chs.

Mountainous or heavily timbered land 80.00 chs.

Sept.26,1903: I set off 0°59'S.on decl.arc;and at 11h. 52m.a.m.I'm.t.; observe the sun on the meridian;the resulting lat. is 40°27'N.

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

40.00 Set temp.¼ sec.cor.

80.02 Intersect E.bdy.of Tp.9 lks.S.of cor.of secs.25,30,31, and 36,heretofore described.Thence I run

S.89°56'W.on a true line bet.secs.25 and 36

Over mountainous land;along rocky south slope of ridge. Descend.

27.50 Enter aspen timber bears N.and S.

32.50 Leave aspen.

40.01 Set a sandstone 30x12x5 ins.15 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 corner.

Pits impracticable.

46.40 Small red sandstone cliff 25 ft.high.

48.50 Trail bears S.E.and N.

Descend abruptly.

49.50 Bottom of Deep Gulch,600 ft.below ¼ sec.cor.,drains N.

Ascend abruptly over cliffs.

64.00 Top of cliffs 100 ft.high.

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

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	Land mountainous.
	Soil rocky 2nd and 4th rates.
	Timber aspen on 35.00 chs.
	Mountainous land 80.02 chs.
	N.0°01'W.bet.secs.25 and 26
	Over mountainous land;ascending.
7.84	Top of ridge 900 ft.high bears E.and W.
10.50	Cliffs 100 ft.high;descend abruptly.
32.00	Creek bottom;foot of steep descent.
36.00	West Fork of Du Chesne River,50 lks.wide,16 ins.deep, drains E.
38.00	Wagon road from Rhodes Canon bears N.85°E.and S.85°W. Ascend abruptly.
40.00	Set a limestone 18x10x6 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
50.00	Top of bluff 200 ft.high bears N.80°E.and S.80°W.;ascend gradually.
66.50	Foot of steep ascent;ascend abruptly.
80.00	Set a porphyry stone 20x6x6 ins.15 ins.in the ground for cor.of secs.23,24,25,and 26,marked with 2 notches on S. and 1 notch on E.edge;and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil sandy loam and rocky;2nd and 4th rate.
	No timber.
	Mountainous land 80.00 chs.
	Sept.26,1903.

September 27,1903,at 8 h.a.m.l.m.t.I set off 40°28'N. on lat.arc;1°18'S.on decl.arc;and determine a meridian at the cor.of secs.23,24,25,and 26.Thence I run

SUBDIVISION OF T.1 N.R.9 W.

CHAINS. N.89°56'E.on a random line bet.secs.24 and 25

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

79.89 Intersect E.bdy.of Tp.1 lk.S.of cor.of secs.19,24,25,an 30,heretofore described.Thence I run S.89°56'W.on a true line bet.secs.24 and 25 Over mountainous land;descending.

15.50 Bottom of gulch 200 ft.deep,drains S.18°E.;ascend.

25.50 Top of ridge 180 ft.high bears N.10°W.and S.10°E.; Descend.

39.90 Gulch 150 ft.deep,drains S.

39.94 Set a sandstone 20x10x5 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of corner. Pits impracticable.

46.00 Cliffs 30 ft.high,on the east.side of which gilsonite and asphaltum seaps out,with indications of some little workings. Ascend.

50.05 Top of ridge 80 ft.high bears N.20°W.and S.20°E.;descend.

62.50 Bottom of gulch 100 ft.deep,drains S.20°E. Ascend.

67.00 Ridge spur 60 ft.high bears N.10°W.and S.10°E.;descend.

74.00 Gulch 50 ft.deep,drains S.20°E.;ascend.

78.00 Top of ridge spur 70 ft.high bears N.5°W.and S.5°E.

79.89 The cor.of secs.23,24,25,and 26.

Land mountainous.

Soil loam and rocky 2nd,and 4th rate.

No timber.

Mountainous land 79.89 chs.

Sept.27: At this cor.I set off 1°23'S.on decl.arc;and at 11h 52m.a.m.I observe the sun on the meridian; the resulting lat.is 40°28'N.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	N.0°01'W.bet.secs.23 and 24
	Over mountainous land;ascending along top of ridge.
40.00	Set a red sandstone 16x8x6 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Corner situated in small patch of brush.
60.00	Ridge bears N.W.and S.E.
65.00	Draw,drains S.E.
80.00	Set a gray sandstone 18x6x6 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;and raise a mound of stone 2 ft. base 1½ ft.high W.of cor.Pits impracticable.
	Corner situated on the bare face of the south slope.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	No timber.
	Mountainous land 80.00 chs.
	N.89°56'E.on a random line bet.secs.13 and 24
40.00	Set temp.¼ sec.cor.
79.92	Intersect E.bdy.of Tp.2½ lks.N.of cor.of secs.13,18,19 and 24,heretofore described.
	Thence I run
	S.89°57'W.on a true line bet.secs.13 and 24
	Over mountainous land: ascending.
12.00	Top of ridge, bears NW. and SE.
31.00	Bottom of deep gulch drains S.;ascend.
39.96	Set a gray sandstone 18x10x4 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
43.15	Top of spur 100 ft.high projects S.;descend.
52.00	Bottom of draw 90 ft.deep,drains S.10°E.
	Ascend.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS

55.60 Top of small spur 50 ft.high projects S.20°E.;descend.

62.70 Draw 120 ft.deep,drains S.E.

Ascend through brush.

79.20 Point of spur projects S.E.;descend.

79.92 The cor.of secs.13,14,23,and 24.

Land mountainous.

Soil gravelly and rocky;3rd and 4th rate.
No timber.
Mountainous land 79.92 chs.

Sept.27,1903.

Sept.28,1903;at 8 h.30 m.a.m.l.m.t.I set off 1°42'S.on decl.arc;40°29'N.on lat.arc;and determine a meridian wit the solar at the cor.of secs.13,14,23,and 24.Thence I run

N.0°01'W.bet.secs.13 and 14

Over mountainous land;ascending.

3.50 Top of spur projects S.E.;descend.

10.00 Enter aspen ,bears E.and W.

30.00 Draw 20 ft.deep,drains S.E.

Ascend.

35.00 Leave aspen grove bears N.80°E.and S.80°W.

40.00 Set quartzite stone 22x10x5 ins.16 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.

Pits impracticable.

Corner situated on bare hillside sloping S.W.

62.00 Ascend abruptly.

67.00 Top of ridge bears N.40°W.and S.60°E.,being the dividing ridge between the N.and W.forks of the Du Chesne River.

Descend along E. slope of ridge;through aspen and pine timber.

80.00 Set a quartzite stone 24x10x7 ins.18 ins.in the ground for cor.of secs.11,12,13,and 14,marked with 4 notches o S.and 1 notch on E.edge;and raise a mound of stone 4 ft.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	base 3 ft.high W.of cor.;on account of being in slide rock a small mound could not be seen.
	From the corner
	An aspen 6 ins.diam.bears S.15°E.27 lks.dist. marked T 1 N R 9 W S 13 B T
	An aspen 5 ins.diam.bears N.75°W.40 lks.dist. marked T 1 N R 9 W S 11 B T
	No other trees within limits.
	Land mountainous.
	Soil loam and rocky 3rd and 4th rate.
	Timber pine and aspen 38.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
	N.89°57'E.on a random line bet.secs.12 and 13
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.95	Intersect E.bdy.of Tp.3 lks.N.of cor.of secs.7,12,13,and 18,herefofore described.
	Thence I run
	S.89°58'W.on a true line bet.secs.12 and 13
	Over mountainous land;ascending.
36.00	Top of cliffs on W.side of West Fork of Du Chesne River, 300 ft.high.
39.97½	Set red sandstone 16x10x5 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
	About 4 chs.above and south of bottom of gulch draining E.
	Ascend long slope to E.;over slide rock and through brush and fallen timber.
60.00	Steeper ascent over slide rock.
79.95	The cor.of secs.11,12,13 and 14.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.

CHAINS.	
	Mountainous land,or land covered with fallen timber and brush 79.95 chs.
	Sept.28,1903:At this cor.I set off 1°46'S.on decl.arc; and at 11h.51m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40°30'N.

N.0°01'W.bet.secs.11 and 12.

	Over mountainous land;descending over slide rock.
11.00	Bottom of a slide rock gulch 75 ft.below corner;drains E. Ascend.
13.00	Enter aspen timber bears N.80°W.and S.80°E.
19.19	Point of spur 80 ft.high projects S.80°E.
	Descend abruptly;through brush and over slide rock and fallen timber.
40.00	Set a porphyry stone 16x8x4 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	About 4 chs.W.of small basin.
	No trees suitable for marking,within limits.
	Descend through aspen bears E.and W.
51.00	Bottom of canon 400 ft.below ridge,drains E. A little water in places,but none running.
	Ascend abruptly over cliffs 90 ft.high.
54.00	Top of cliffs;ascend less abruptly.
80.00	Set a gray sandstone 20x8x6 ins.15 ins.in the ground for cor.of secs.1,2,11,and 12,marked 5 notches on S.and 1 notch on E.edge and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	Timber aspen 67.00 chs.
	Mountainous land,or land covered with timber or heavy dense undergrowth 80.00 chs. Sept.28,1903.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS	
	Sept.29,1903: At 8 h.a.m.l.m.t.I set off 2°05'S.on decl. arc;40°31'N.on lat.arc;and determine a true meridian with the solar at the cor.of secs.1,2,11,and 12.Thence I run
	N.89°58'E.on a random line bet.secs.1 and 12
40.00	Set temp.¼ sec.cor.
79.98	Intersect E.bdy.of Tp.3 lks.N.of the cor.of secs.1,6,7, and 12,heretofore described.Thence I run
	S.89°59'W.on a true line bet.secs.1 and 12
	Over mountainous land;descending abruptly.
7.00	Bottom of steep descent.
	Trail down to forks of Du Chesne River bears N.W.and S.E.
12.50	North Fork of Du Chesne River about 40 lks.wide and 9 ins. deep,clear water;drains S.20°E.
	Ascend.
39.99	Set a gray quartzite stone 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.
45.00	Cliffs 350 ft.high running N.10°W.and S 10°E.
	Ascend abruptly.
64.15	Top of cliffs.
71.80	Cliffs 90 ft.high.
	Ascend to cor.along top of small ridge.
79.98	The cor.of secs.1,2,11,and 12.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	No timber.
	Mountainous land 79.98 chs.
	Sept.29,1903,at 11h.51m.a.m.l.m.t.sky overcast and observations for lat.impossible.

	N.0°01'W.on a random line bet.secs.1 and 2
40.00	Set temp.¼ sec.cor.
79.55	Intersect N.bdy.of Tp.5 lks.E.of cor.of secs.1,2,35,and

CHAINS.	
	36,heretofore described.Thence I run
	S.0°3'E.on a true line bet.secs.1 and 2.
	Over mountainous land;ascend.
20.00	Top of ridge 120 ft.high bears E.and W.;descend.
30.40	Bottom of gulch 80 ft.deep,drains E. A little water in places.
	Ascend.
39.55	Set a red sandstone 20x15x8 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Ascend through pine and aspen timber and brush and over slide rock.
67.89	Top of small ridge 180 ft.above ¼ sec.cor.bears E.and W. Descend.
70.50	Head of draw 60 ft.deep,drains S.80°E.;ascend.
77.30	Ridge 90 ft.high bears N.80°W.and S.80°E.
	Descend;leave timber.
79.55	The cor.of secs.1,2,11,and 12.
	Land mountainous.
	Soil gravel and rocks;3rd and 4th rate.
	Timber aspen and pine 77.30 chs.
	Mountainous land,heavily timbered or covered with dense undergrowth 79.55 chs.
	Sept.29,1903.

Sept.30:At 10 h.a.m.l.m.t.I set off 40°26'N.on the lat. arc;2°31'S.on the decl.arc;and determine a meridian with the solar at the cor.of secs.34 and 35 on the Uintah Special Base line,heretofore described.

Thence I run

N.0°02'W.bet.secs.34 and 35

Over mountainous land;descend abruptly.

4.00	Enter pine timber and second growth of aspens,bears N.E and S.W.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
15.00	Draw 90 ft.deep,drains N.50°E.
	Leave pine and aspen timber;
	Ascend.
27.00	Spur 80 ft.high projects N.45°E.
	Descend.
34.00	Draw 60 ft.deep,drains N.40°E.
	Leave timber;ascend.
40.00	Set red sandstone 16x8x5 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
60.00	Spur 100 ft.high bears N.E.
	Descend.
68.00	Draw 60 ft.deep,drains N.50°E.;ascend.
74.00	Spur 50 ft.high projects N.65°E.;descend.
80.00	Set a limestone 18x9x5 ins.12 ins.in the ground for cor. of secs.26,27,34,and 35,marked 1 notch on S.and 2 notches on E.edges;and raise a mound of stone 2 ft.base 1½ ft. high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	Timber pine and aspen 11.00 chs.
	Mountainous land,or heavily timbered land 80.00 chs.

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

40.00	Set temp.¼ sec.cor.
79.95	Intersect N.and S.line 18 lks.N.of cor.of secs.25,26,35, and 36.Thence I run
	N.89°52'W.on a true line bet.secs.26 and 35
	Over mountainous land;ascend along S.slope of ridge.
6.66	Top of small ridge spur 60 ft.above cor.projects S.
	Descend.
17.00	Bottom of small draw 40 ft.deep,drains S.10°E.;ascend.

SUBDIVISION OF T.1 N.R 9 W

CHAINS

25.00 Enter scattering aspen timber bears N.and S.

39.97½ Set a grey limestone 20x11x4 ins.15 ins.in the ground fo 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.

Corner set on top of ridge bears N.W.and S.E.

Descend.

52.30 Canon 200 ft.deep,drains N.10°E.;dry,but has a large drainage area.

Ascend very abruptly.

60.00 Top of spur 190 ft.high,projects N. 5° E.

Descend abruptly.

68.00 Ravine 120 ft.deep,drains N.5°E.

Ascend.

Leave aspen timber.

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

Land mountainous.

Soil sandy loam and rocky;2nd and 4th rates.

Timber scattering aspen 43.00 chs.

Mountainous land 79.95 chs..

Sept.30,1903:At this cor.I set off 2°33'S.on decl.arc, and at 11h 50m a.m.l.m.t.,observe the sun on the meridian;the resulting lat:is 40°27'N.

N.0°02'W.bet.secs.26 and 27.

Over mountainous land;descend abruptly.

10.00 Small draw 60 ft.deep,drains N.E.;ascend.

15.00 Small spur 50 ft.high bears N.E.;

20.00 Descend abruptly.

22.00 Bottom of West Fork Du Chesne River,50 lks.wide,9 ins.de deep,course N.80°E.

Ascend gradually through dense brush.

38.00 Leave brush bears E.and W.

[illegible] Indian trail bears E.and W.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
38.50	Bottom of Woolf Creek drains S.30°E.15 lks.wide 8 ins. deep;fine clear water.
40.00	Set a limestone 16x8x4 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of corner.Pits impracticable.
41.00	Rhodes Canon wagon road bears N.E.and S.W.
	Ascend abruptly.
53.00	Top of abrupt ascent;thence gradual ascent.
70.00	Top of spur projects S.E.;thence along E.slope.
80.00	Set a porphyry stone 15x6x6 ins.10 ins.in the ground for cor.of secs.22,23,26,and 27,marked 2 notches on S.and 2 notches on E.edge;and raise a mound of stone 2 ft.base 1½ ft.high W.of corner.Pits impracticable.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	No timber.
	Mountainous land or land covered with dense undergrowth 80.00 chs.
	Sept.30,1903.

Oct.1,1903; At 8 h.0 m.a.m.l.m.t.I set off 40°28'N.on lat.arc;2°51'S.on decl.arc;and determine a true meridian with the solar at the cor.of secs.22,23,26,and 27.

Thence I run

S.89°52'E.on a random line bet.secs.23 and 26

40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line 4 lks.S.of the cor.of secs.23,24, 25 and 26.Thence I run
	N.89°54'W.on a true line bet.secs.23 and 26
	Over mountainous land;descending.
20.50	Bottom of gulch 90 ft.deep,drains S.5°E.;ascend.
25.00	Top of ridge 80 ft.high bears N.10°W and S.10°E.
	Descend.
38.00	Descend more abruptly.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
39.98	Set a brown sandstone 16x10x6 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
40.50	Bottom of gulch 100 ft.deep,drains S.20°E.
	Ascend.
53.00	Top of small ridge 60 ft.high bears N.45°W.and S.10°E.
	Descend.
59.00	Head of draw 40 ft.deep,drains S.;ascend.
65.00	Spur 40 ft.high projects S.20°E.;descend.
70.00	Draw 70 ft.deep,drains S.25°E.;ascend.
79.96	The cor.of secs.22,23,26,and 27.
	Land mountainous.
	Soil sandy loam;gravelly and rocky;3rd and 4th rates.
	No timber.
	Mountainous land 79.96 chs.

N.0°02'W.bet.secs.22 and 23

	Ascending along E.slope.
14.00	Head of draw 30 ft.deep,drains S.20°E.;ascend.
26.00	Spur 80 ft.high projects S.20°E.
	Descend.
40.00	Set a porphyry stone 16x8x4 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
44.00	Head of draw,drains S.E.;ascend.
60.00	Spur 70 ft.high projects S.20°E.;ascend along ridge.
80.00	On ridge bearing N.E.and S.W.,
	Set a porphyry stone 18x8x5 ins.12 ins.inthe ground for cor.of secs.14,15,22,and 23,marked with 3 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.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	Land.mountainous.
	Soil sandy,gravelly and rocky;3rd and 4th rate.
	No timber.
	Mountainous land 80.00 chs.
	Oct.1,1903:At this cor.I set off 2°56'S.on decl.arc,and at 11h 50 m.a.m.L.m.t., observe the sun on the meridian; the resulting lat.is 40°29'N.
	S.89°54'E.on a random line bet.secs.14 and 23
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.03	Intersect N.and S.line 2 lks.N.of cor.of secs.13,14,23, and 24.Thence I run
	N.89°53'W.on a true line bet.secs.14 and 23
	Over mountainous land;descending.
5.00	Head of hollow drains S.E.;ascend.
9.85	Ridge bears N.W.and S.E.
	Descend abruptly.
25.50	Bottom of gulch 90 ft.deep,drains S.;ascend.
31.50	Top of small ridge 100 ft.high bears N.and S.;descend.
36.00	Draw 60 ft.deep,drains S.;ascend.
40.01$\frac{1}{2}$	Set a sandstone 18x6x4 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high N.of cor.Pits impracticable. Corner set among large stones on point of spur 40 ft.high and about 6 chs.N.from the junction of two draws from the north.
45.00	Draw 50 ft.deep,course S.40°E.;ascend.
58.00	Ridge 120 ft.high bears N.15°W.and S.15°E.;descend.
70.00	Lowest place in slope to S..
	Ascend to cor.
80.03	The cor.of secs.14,15,22,and 23.
	Land mountainous.
	Soil sandy,gravelly and rocky;3rd,and 4th rates.
	No timber.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS

Mountainous land 80.03 chs.

N.0°02'W.bet.secs.14 and 15

Over mountainous land;ascending along the top of ridge and steep west slope over rocky ground.

40.00 Set a quartzite stone 18x10x4 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ftlhigh W.of cor.

Pits impracticable.

57.00 Enter aspen and scattering pine timber,bears E.and W.

80.00 Set a porphyry stone 18x7x7 ins.12 ins.in the ground for cor.of secs.10,11,14,and 15,marked with 4 notches on S.and 2 notches on E.edge;from which

A pine 12 ins.diam.bears N.20°E.34 lks.dist.
marked T 1 N R 9 W S 11 B T

An aspen 5 ins.diam.bears S.34°E.19 lks.dist.
marked T 1 N R 9 W S 14 B T

An aspen 6 ins.diam.bears S.13°W.37 lks.dist.
marked T 1 N R 9 W S 15 B T

A pine 16 ins.diam.bears N.41°30'W.38 lks.dist.
marked T 1 N R 9 W S 10 B T

Land mountainous.

Soil gravelly and rocky;3rd and 4th rates.

Timber aspen and pine 23.00 chs.

Mountainous &m.heavily timbered land 80.00 chs.

Oct.1,1903.

Oct.2,1903: At 8 h.a.m.l.m.t.I set off 3°15'S.on decl. arc;40°30'N.on lat.arc;and determine a true meridian with the solar at the cor.of secs.10,11,14,and 15.

Thence I run

S.89°53'E.on a random line bet.secs.11 and 14

40.00 Set temp.¼ sec.cor.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
79.95	Intersect N.and S.line 2 lks.N.of the cor of secs.11,12, 13 and 14.Thence I run
	N.89°52'W.on a true line bet.secs.11 and 14
	Over mountainous land;ascending over slide rock and through scattering pine and aspen timber bears N.and S.
10.23	Enter dense pine timber ;leave aspens.
11.50	Top of ridge 160 ft.above cor.bears N.and S.,being the divide between North and West Forks of Du Chesne River. Descend.
13.00	Leave pine and enter scattering aspen timber bears N.W. and S.E.;over fallen timber.
38.00	Bottom of gulch;drains S.
39.97½	Set a quartzite stone 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. Being in the head of the first draw E.of Rhodes Canon, and about 10 chs.S.of saddle on the divide.
46.00	Ascend through aspen and pine timber.
55.00	Two springs in a little grassy flat sloping east,about 1 ch.S.of line.
72.00	Top of ridge 190 ft.high bears N.15°E.and S.5°W.;descend.
79.95	The cor.of secs.10,11,14,and 15.
	Land mountainous.
	Soil loam and rocky;2nd and 4th rates.
	Timber aspen and pine,69.72 chs.
	Mountainous,or heavily timbered land 79.95 chs.

	N.0°02'W.bet.secs.10 and 11
	Over mountainous land;ascending through pine and aspen timber.
15.00	Head of draw 50 ft.deep,drains S.50°W.;ascend.
19.00	Leave pine and aspen timber bears E.and W.
28.00	Enter fallen timber and scattering line pine timber.
40.00	Set a porphyry stone 16x10x6 ins.11 ins.in the ground

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.;from which
	A pine 7 ins.diam.bears S.50°E.34 lks.dist.
	marked ¼ S 11 B T
	A pine 14 ins.diam.bears N.40°W.25 lks.dist.
	marked ¼ S 10 B T
43.00	Top of ridge 90 ft.high bears N.W.and S.E.;
	Descend.
53.00	Bottom of head of canon 100 ft.deep,drains E.;ascend.
68.00	Spur 120 ft.high projects S.80°E.;descend.
80.00	Set a porphyry stone 16x8x5 ins.11 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
	An aspen 4 ins.diam.bears N.61°E.25 lks.dist.
	marked T 1 N R 9 W S 2 B T
	An aspen 3 ins.diam.bears S.18°E.46 lks.dist.
	marked T 1 N R 9 W S 11 B T
	An aspen 3 ins.diam.bears S.41°W.42 lks.dist.
	marked T 1 N R 9 W S 10 B T
	An aspen 3 ins.diam.bears N.61°W.30 lks.dist.
	marked T 1 N R 9 W S 3 B T
	Land mountainous.
	Soil sandy loam and rocky;2nd and 4th rate.
	Timber pine and aspen 71.00 chs.
	Mountainous land 80.00 chs.
	Oct.2: At 11h.50m.a.m.l.m.t., sky is overcast and observation for lat.impossible.

	S.89°52'E.on a random line bet.secs.2 and 11
40.00	Set temp.¼ sec.cor.
79.80	Intersect N.and S.line 2 lks.S.of the cor.of secs.1,2,11 and 12.Thence I run
	N.89°53'W.on a true line bet.secs.2 and 11
	Over mountainous land;ascending through brush along S.

SUBDIVISION OF T.1 N.R. 9 W.

CHAINS.	
	slope of ridge..
38.00	Enter scattering pine and aspen timber bears N.W.and S.E.
	Head of gulch drains S.E.;ascend.
39.90	Set limestone 16x6x6 ins.11 ins.in the ground for ¼.
	sec.cor.,marked ¼ on N.face;from which
	A pine 7 ins.diam.bears N.10°E.35 lks.dist.
	marked ¼ S 2 B T.
	An aspen 6 ins.diam.bears S.80°E.65 lks.dist.
	marked ¼ S 11 B T
58.00	Spur projects S.20°E.;descend.
66.00	Draw drains S.25°E.;ascend.
79.80	The cor.of secs.2,3,10 and 11.
	Land mountainous.
	Soil loam and rocky;2nd and 4th rates.
	Timber pine and aspen 41.80 chs.
	Mountainous land,79.80 chs.

N.0°02'W.on a random line bet.secs.2 and 3

40.00	Set temp.¼ sec.cor.
79.50	Intersect N.bdy.of Tp.16 lks.W.of cor.of secs.2,3,34,and
	35 heretofore described.
	Thence I run
	S.0°05'W.on a true line bet.secs.2 and 3
	Over mountainous land;through dense pine timber.
	Ascending along W.slope of spur.
21.00	Top of spur 100 ft.high projects S.5°W.;descend.
35.00	Enter aspen timber bears E.and W.
39.50	Set a porphyry stone 16x8x6 ins.11 ins.in the ground for
	¾ sec.cor.,marked ¼ on W.face;from which
	An aspen 8 ins.diam.bears S.30°E.12 lks.dist.
	marked ¼ S 2 B T
	An aspen 9 ins.diam.bears S.70°W.25 lks.dist.
	marked ¼ S 3 B T
42.00	Draw 60 ft.deep,drains N.80°E.;ascend.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS

60.00 Ridge 80 ft.high bears E.and W..

Descend.

74.00 Draw 90 ft.deep,drains S.85°W.;ascend.

79.50 The cor.of secs.2,3,10,and 11.

Land mountainous.

Soil rocky;4th rate.

Timber pine and aspen 79.50 chs.

Mountainous,or heavily timbered land 79.50 chs.

October 2,1903.

October 3: At 3 h.0 m.p.m.l.m.t.I set off 40°26'on the lat.arc;3°45'S.on the decl.arc;and determine a true meridian with the solar at the standard cor.of secs.33 and 34 on the Uintah Special Base line,heretofore described. Thence I run

N.0°2'W.bet.secs.33 and 34

Ascend over mountainous land.

11.25 op of ridge 200 ft.above cor.bears E.and W.

Descend.

37.00 Draw 240 ft.deep,drains N.70°W.;ascend.

40.00 Set red sandstone 30x12x4 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft. ft.base 1½ ft.high W.of cor.Pits impracticable.

42.00 Spur 90 ft.high projects N.80°W.

Descend.

54.00 Draw 60 ft.deep,drains W.;ascend.

65.00 Spur 80 ft.high projects W.

Enter scrub aspen bears N.10°E,and S.10°W.

Descend.

80.00 Set sandstone 15x10x8 ins.10 ins.in the ground for cor. of secs.27,28,33,and 34,marked with 1 notch on S.and 3 notches on E.edge;and raise a mound of stone 2 ft.base 1.. ft.high W.of cor.;from which

An aspen 3 ins.diam.bears N.34°E.32 lks.dist.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS	
	marked T 1 N R 9 W S 27 B T
	An aspen 3 ins.diam.bears S.72°W.54 lks.dist.
	marked T 1 N R 9 W S 33 B T
	An aspen 3 ins.diam.bears N.60°W.5 lks.dist.
	marked T 1 N R 9 W S 28 B T
	No trees in sec.34.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rates.
	Timber scrub aspen 15.00 chs.
	Mountainous land;heavily timbered 80.00 chs.
	Oct.3,1903.
	Oct.4,1903,at 8 h.0 m.a.m.l.m.t.I set off 4°01'S.on decl.arc;40°27'N.on lat.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.$\frac{1}{4}$ sec.cor.
79.82	Intersect N.and S.line 4 lks.N.of the cor.of secs.26,27, 34 and 35.Thence I run
	N.89°58'W.on a true line bet.secs.27 and 34
	Over mountainous land.ascending.
13.00	Spur 100 ft.high projects N.20°W.
	Descend.
27.00	Draw 90 ft.deep,drains N.15°W.;ascend.
32.00	Spur 140 ft.high projects N.30°W.;descend.
39.91	Set red sandstone 18x14x5 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.
48.50	Ravine 180 ft.deep,drains N.10°W.
	Spring branch 2 lks.wide,2 ins.deep;ascend.
49.00	Enter scrub aspen,bears N.and S.
55.00	Spur 120 ft.high projects N.W.
	Descend.
[illegible]	[illegible]

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
79.82	The cor.of secs.27,28,33,and 34.
	Land mountainous.
	Soil rocky;4th rate.
	Timber scrub aspen 30.82 chs.
	Mountainous,or heavily timbered land 79.82 chs.

N.0°02'W.bet.secs.27 and 28

Over mountainous land;descend.

2.00 Leave aspen bears N.45°W,and S.45°E.

8.00 Enter dense willows in bottom of DuChesne basin.

15.00 West Fork Du Chesne River 50 lks.wide,8 ins.deep,drains N.85°E.

20.00 Leave willows bear E.and W.

Ascend.

30.00 Top of bench 90 ft.high bears N.80°E.and S.80°W.

33.00 Indian or cattle trail bears N.80°E.and S.80°W.

40.00 Set a porphyry stone 20x10x6 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.

Pits impracticable.

55.00 Bottom of wash drains S.E.;also leave bench and ascend gradually.

80.00 Set limestone 15x10x5 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;and raise a mound of stone 2 ft. base 1½ ft.high W.of cor.Pits impracticable.

Land mountainous.

Soil sandy loam and rocks;2nd and 4th rate.

Timber scrub aspen 2.00 chs.

Brush and willows 12.00 chs.

Mountainous land,heavily timbered,or covered with dense undergrowth 80.00 chs.

Oct.4: At this cor.I set off 4°06'S.on decl.arc;and at 11h.49m.a.m.l.m.t.,observe the sun on the meridian; the

SUBDIVISION OF T 1 N R.9 W

CHAINS.	
	resulting lat.is 40°28'N.
	S.89°58'E.on a random line bet.secs.22 and 27
40.00	Set temp.¼ sec.cor.
79.89	Intersect N.and S.line 15 lks.N.of the cor.of secs.22,23, 26 and 27.Thence I run
	N.89°52'W.on a true line bet.secs.22 and 27
	Over mountainous land;ascending.
7.00	Top of spur projects S.E.
8.00	Descend abruptly.
29.40	Rhodes Canon wagon road bears N.20°W.and S.20°E.
	Descend less abruptly.
37.00	Woolf Creek Trail bears N.W.and S.E.
39.95	Set a sandstone 16x10x5 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 3 ft.base 1½ ft.high N.of cor.Pits impracticable.
40.45	Bottom of Woolf Creek Canon,drains S.E.
	Creek 15 lks.wide 8 ins.deep,drains S.E.
	Ascend abruptly.
59.56	Top of cliffs 70 ft.high bear N.60°W.and S.60°E.
	Descend along S.slope.
79.89	The cor.of secs.21,22,27,and 28.
	Land mountainous.
	Soil loam and rocks;2nd and 4th rate.
	No timber.
	Mountainous land 79.89 chs.
	Oct.4,1903.
	Oct.5,1903 at 8 h.a.m.l.m.t.I set off 4°24'S.on decl. arc;40°28'N.on lat.arc,and determine a true meridian with the solar at the cor.of secs.21,22,27,and 28.Thence I run
	N.0°02'W.bet.secs.21 and 22

SUBDIVISION OF T.1 N.R.9 W.

CHAINS

Over mountainous land;ascending.

12.14 Brow of Woolf Creek Cliffs 70 ft.high bear N.60°W,and S.60°E.;descend among big boulders and small brush.

40.00 Set a sandstone 15x10x5 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.

Pits impracticable.

On slope to N.E.in sagebrush,and about 5 chs.W.from Woolf Creek.

48.30 Woolf Creek 240 ft.below cliffs,15 lks.wide,30 ins.deep, drains S.40°E. Bottom of canon about 4 chs.wide.

51.00 Foot of steep ascent.

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

70.00 Top of little spur 120 ft.above creek projects S.10°W.

80.00 Set a sandstone 16x8x7 ins.11 ins.in the ground for cor. of secs.15,16,21,and 22,marked

T 1 N on N.E.

9 W on S.E.face,with 3 notches on S.and E.edge;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.

Pits impracticable.

On the steep W.slope of a ridge.

Land mountainous.

Soil rocky;4th rate;

No timber.

Mountainous land 80.00 chs.

Oct.5.1903:At this cor.I set off 4°29'S.on decl.arc;and at 11h 49m a.m.l.m.t.observe the sun on the meridian;the resulting lat.is 40°29'N.

S.89°52'E.on a random line bet.secs.15 and 22

40.00 Set temp.¼ sec.cor.

79.92 Intersect N.and S.line 27 lks.S.of the cor.of secs.14, 15,22,and 23;Thence I run

SUBDIVISION OF T 1 N R 9 W

CHAINS.	
	S.89°56'W.on a true line bet.secs.15 and 22
	Over mountainous land;
	Descend.
17.00	Bottom of Rhodes Canon,160 ft.deep,drains S.5°E.
	Wagon road bears N.5°W.and S.5°E.
17.50	Dry creek bed drains S.
	Ascend.
39.96	Set a sandstone 16x8x5 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
	On top of spur projects SE.220 ft.high,and about 50 lks.S.of grove of small aspen.
41.00	Descend.
49.80	Enter aspen timber bears N.and S.
60.00	Top of spur 90 ft.high projects S.
	Descend.
68.00	Gulch 80 ft.deep,drains S.;ascend.
76.00	Ridge 100 ft.high bears N.5°E.and S.5°W.
	Descend.
79.92	The cor.of secs.15,16,21,and 22.
	Land mountainous.
	Soil rocky;4th rate.
	Timber aspen 30.12 chs.
	Mountainous or heavily timbered land 79.92 chs.

N.0°02'W.bet.secs.15 and 16

Over mountainous land;ascending along W.slope

19.00	Enter small aspen and thick brush bears N.65°E.and S.65° W.
40.00	Set white sandstone 28x10x8 ins.21 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.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS	
65.00	Enter pine timber bears N.20°W.and S.20°E.
77.00	Ridge 160 ft.above ¼ sec.cor.bears N.10°W and S.10°E. Descend.
80.00	Set a sand tone 15x8x7 ins.10 ins.in the ground for cor. of secs.9.10.15.and 16,marked with 4 notches on S.and 3 notches on E.edge;and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.;from which
	An aspen 10 ins.diam.bears N.39°E.28 lks.dist. marked T 1 N R 9 W S 10 B T
	A pine 14 ins.diam.bears S.31°E.38 lks.dist. marked T 1 N R 9 W S 15 B T
	A pine 8 ins.diam.bears S.21°W.14 lks.dist. marked T 1 N R 9 W S 16 B T
	No trees in sec.9 suitable for marking.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	Timber aspen and pine 61.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Oct.5,1903.

Oct.6: At 8 h.30 m.a.m.l.m.t.I set off 4°48'S.on decl. arc;40°30'N.on lat.arc;and determine a true meridian with the solar at the cor.of secs.9,10,15,and 16.
Thence I run

N.89°56'E.on a random line bet.secs.10 and 15

40.00	Set temp.¼ sec.cor.
79.88	Intersect N.and S.line 5 lks.S.of cor.of secs.10,11,14 and 15.Thence I run

S.89°54'W.on a true line bet.secs10 and 15
Over mountainous land;descending abruptly through aspen and scattering pine timber.

30.00	Leave pine timber bears N.40°E.and S.40°W.
39.94	Set a porphyry stone 17x9x4 ins.12 ins.in the ground

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	for $\frac{1}{4}$ sec.cor.,marked 1 on N.face;from which
	An aspen 6 ins.diam.bears N.59°W.40 lks.dist.
	marked $\frac{1}{4}$ S 10 B T
	An aspen 9 ins.diam.bears S.15°E.140 lks.dist.
	marked $\frac{1}{4}$ S 15 B T
42.00	[illegible]
49.00	Bottom of Rhodes Canon drains S.30°E.;no water.
	Wagon road bears N.W.and S.E.;ascend.
	Spring 5.00 chs.S.of line.
50.00	Enter dense pine and aspen timber.
79.88	The cor.of secs.9,10,15,and 16.
	Land mountainous.
	Soil loam and rocky;2nd and 4th rate.
	Timber pine and aspen 79.88 chs.
	Mountainous land or heavily timbered land 79.88 chs.
	Oct.6: At 11h.48m.a.m.l.m.t.sky overcast,observations t. for lat.impossible.

N.0°02'W.bet.secs.9 and 10

	Over mountainous land;descending along E.slope of ridge; over slide rock and through dense pine timber.
35.00	Leave dense pine;enter scattering aspen timber.
38.40	Trail in bottom of gulch 180 ft.below sec.cor.,bears S. 80°E.;ascend.
40.00	Set a sandstone 30x10x5 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base,1½ ft.high W.of cor.
	Pits impracticable.
	In scattering aspen and pine timber,but no bearing trees within limits.
	Thence over boulders and slide rock.
60.10	Foot of steep ascent.
	Ascending along the foot of cliffs 80 ft.high bear N. and S.,facing E.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.

80.00 A pine 8 ins.diam.for cor.of secs.3,4,9,and 10,which I mark

T.1 N.S 3 on N.E.

R 9 W S 10 on S.E.

S 9 on S.W.;and

S 4 on N.W.side;with 5 notches on S.and 3 notches on E.side;and raise a large mound of stone 3½ ft.base 3 ft.high on W.on account of moving slide rock all aroun.

No bearing trees within limits.

Tree corner about 20 ft.from foot of cliffs 50 ft.high on W.

Land mountainous.

Soil rocky;4th rate.

Timber pine and aspen 80.00 chs.

Mountainous or heavily timbered land 80.00 chs.

Oct.6,1903.

Oct.7,1903,at 8 h.a.m.l.m.t.I set off 5°10'S.on decl. arc;40°31'N.on lat.arc,and determine a true meridian with the solar at the cor.of secs.3,4,9,and 10.

Thence I run

N.89°54'E.on a random line bet.secs.3 and 10

40.00 Set temp.¼ sec.cor.

79.92 Intersect N.and S.line 3 lks.N.of the cor:of secs.2,3, 10 and 11.Thence I run

S.89°55'W.on a true line bet.secs.3 and 10

Over mountainous land;ascending through pine and aspen timber.

22.00 Ridge 260 ft.above cor.,bears N.10°W.and S.10°E.The divide between West Fork of Du Chesne and North Fork of Du Chesne River;

Descend abruptly.

39.96 Set red sandstone 15x10x4 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone

SUBDIVISION OF T.1 N.R.9 W.

CHAINS	
	2 ft.base 1½ ft.high N.of cor. Being on the E.side of small basin at the foot of steep descent 160 ft.below top of ridge.
	No bearing trees within limits;descend.
55.00	Bottom of steep descent 120 ft.below ¼ sec.cor.Rhodes Canon,course N.and S.
61.00	Wagon road down the canon bears N.and S.
62.00	Creek 5 lks.wide 4 ins.deep,clear water,flows S.5°E.
	Ascend over slide rock and boulders.
71.50	Foot of steep ascent over slide rock.
79.92	The cor.of secs.3,4,9,and 10.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine and aspen 79.92 chs.
	Mountainous or heavily timbered land 79.92 chs.
	Oct.7,1903:At this cor.I set off 5°15'S.on decl.arc;and at 11h.48m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40°31'N.
	N.0°02'W.on a random line bet.secs.3 and 4
40.00	Set temp.¼ sec.cor.
79.55	Intersect N.bdy.of Tp.30 lks.W.of the cor.of secs.3,4,33 and 34,heretofore described.Thence I run
	S.0° 11'W.on a true line bet.secs.3 and 4
	Over mountainous land;gradually descending.
3.00	Two springs E.of line distant 2 and 6 chs.respectively.
5.10	Enter pine and aspen timber bears E.and W.
	Spring branch 2 lks.wide 3 ins.deep,drains S.W.
9.40	Leave pine and aspen timber bears N.60°E.and S.60°W.
18.90	Enter pine and aspen timber bears N.70°E.and S.70°W.
34.00	Leave pine and aspen timber bears E.and W.
39.55	Set a limestone 15x12x8 ins.10 ins.in the ground,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft. high W.of cor.Pits impracticable.

SUBDIVISION OF T. 9

CHAINS.

41.40 Road bears N.20°W:and S.20°E.

44.30 Enter aspen timber bears N.80°W.and S.80°E.

53.00 Bottom of gulch 120 ft.deep,course S.40°E.;ascend throug pine and aspen timber.

75.00 Leave pine timber bears E.and W.

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

Land mountainous.

Soil loam and rocky;2nd and 4th rate.

Timber pine and aspen 49.10 chs.

Mountainous or heavily timbered land, 79.55 chs.

Oct.7,1903.

Oct.8,1903:At 8 h 00 m.a.m.l.m.t.I set off 5°33'S.on decl.arc;40°26'N.on lat.ard,and determine a true meridian with the solar at the standard cor.to.Secs.32and 33 on the Uintah Special Base line,heretofore described.

Thence I run

N.0°03'W.bet.secs.32 and 33

Over mountainous land;descending through aspen timber,

8.55 Gulch 90 ft.below cor.drains E.;

Ascend;leave aspen timber bears E.and W.

34.10 Top of ridge 160 ft.high bears E.and W.;descend.

40.00 Set a red sandstone 18x7x4 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.;marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

On side of slope N.E.,and near a big red sandstone boulder on W.

56.50 Foot of steep descent.

74.00 Top of brow of slope,S.side of West Fork of Du Chesne River.

Descend abruptly.

80.00 Set a slate stone 20x8x5 ins.15 ins.in the ground for cor.of secs.28,29,32,and 33,marked with 1 notch on S.and 4 notches on E.edge;and raise a mound of stone 2 ft.base

SUBDIVISION OF T.1 N.R.9 W.

CHAINS	
	.1½ ft.high W.of cor.Pits impracticable.
	About 1 ch.S.of bottom of canon.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	Timber aspen 8.55 chs.
	Mountainous or heavily timbered land 80.00 chs.
	East on a random line bet.secs.28 and 33
40.00	Set temp.¼ sec.cor.
80.05	Intersect N.and S.line 16 lks.N.of the cor.of secs.27,28 33 and 34.Thence I run
	N.89°53'W.on a true line bet.secs.28 and 33.
	Over mountainous land;descending gradually through aspen timber.
2.00	Leave aspen timber bears N.10°E.and S.10°W.
16.00	Draw 80 ft.deep,drains N.
	Ascend along N.slope.
35.00	Enter aspen timber bears N.80°E and S.80°W.
40.02½	Set a sandstone 18x12x8 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	An aspen 3 ins.diam.bears N.50°W.57 lks.dist.
	marked ¼ S 28 B T
	An aspen 3 ins.diam.bears S.42°W.22 lks.dist.
	marked ¼ S 33 B T
	On S.bank of West Fork of Du Chesne River 50 lks.wide,10 ins.deep,drains N.85°E.
	Thence along river bottom through dense willows and over rocks;ascending.
45.00	Trail, bears NE. and SW.
80.05	The cor.of secs.28,29,32,and 33.
	Land mountainous.
	Soil loam and rocky 2nd and 4th rate.
	Timber aspen.
	Mountainous land or heavily timbered land 80.05 chs.
	Oct.8,1903:At this cor.I set off 5°38'S.on decl.arc;and

SUBDIVISION OF T.1 N.R.9 W.

CHAINS

at 11h.48m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40°27'N.

N.0°03'W.bet.secs.28 and 29

Over mountainous land;descending:

1.00 Bottom of bluff 110 ft.high bears E.and W.

Enter thick willows bear E.and W.

6.00 West Fork of Du Chesne River,50 lks.wide,12 ins.deep, drains E.

9.00 Leave willows bear E.and W.

12.00 Foot of bluff bears E.and W.

Ascend.

20.50 Top of bluff 90 ft.high descend gradually.

38.00 Creek 3 lks.wide,4 ins.deep,drains S.40°E.

39.50 Trail bears E.and W.

40.00 Into open about 1 chain E.of where trail crosses the cree Set a boulder stone 12x8x8 ins.8 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.

Pits impracticable.

Ascend gradually.

65.00 Steeper ascent.

71.00 Top of small ridge 50 ft.high bears N.75°W.and S.75°E.

Descend.

80.00 Set a sandstone 15x9x4 ins.10 ins.in the ground for cor. of secs.20,21,28,and 29,marked 2 notches on S.and 4 notches on E.edge;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

Land mountainous.

Soil gravelly and rocky;3rd and 4th rate.

No timber.

Mountainus land,or land covered with dense undergrowth 80.00 chs.

SUBDIVISION OF T 1 N ; 9 W

CHAINS	
	S.89°53'E.on a random line bet.secs.21 and 28
40.00	Set temp.¼ sec.cor.
79.86	Intersect N.and S.line 30 lks.S.of the cor.of secs.21,22 27 and 28.Thence I run
	S.89°54'W.on a true line bet.secs.28 and 28
	Over mountainous land;descending along slope to S.W.
32.00	Head of draw 130 ft.deep,course S.15°E.;ascend.
39.93	Set a porphyry stone 24x9x4 ins.18 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
	At foot of steep descent through brush. Ascend.
59.50	Top of ridge 120 ft.above head of draw bears N.10°W.and S.10°E.;descend.
79.86	The cor.of secs.20,21,28,and 29.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	No timber.
	Mountainous land or land covered with dense undergrowth 79.86 chs.
	October 8, 1903.

N.0°03'W.bet.secs.20 and 21

	Over mountainous land;ascending along slope to S.W.
40.00	Set a porphyry stone 18x7x5 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.
42.85	Top of ridge bears N.70°W.and S.70°E.
43.00	Brow of Woolf Creek Ridge 400 ft.above creek bears N.70° W.and S.70°E.;descend very abruptly,through dense pines and brush.
57.00	Woolf Creek 15 lks.wide,10 ins.deep,drains S.85°E.
	Leave pines and enter willows.
62.20	Leave willows,bear E.and W.
	Trail bears E.and W.
	Ascend abruptly.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS

67.55 Top of spur 60 ft.above creek projects S.E.;enter brush.

74.80 Bottom of gulch 50 ft.deep,drains S.5°E.

Ascend along creek.

80.00 Set a sandstone 24x12x5 ins.18 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;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.

Being about 20 ft.above and 50 lks.W.of creek.

Land mountainous.

Soil gravelly loam and rocky;2nd and 4th rate.

Timber pine 14.00 chs.

Mountainous land,or land heavily timbered or covered wit dense undergrowth 80.00 chs.

N.89°54'E.on a random line bet.secs.16 and 21

40.00 Set temp.¼ sec.cor.

79.98 Intersect N.and S. line 35 lks.N.of the cor.of secs.15, 16.21.and 22.Thence I run

N.89°51'W.on a true line bet.secs.16 and 21

Over mountainous land;descending.

8.00 Draw 70 ft.below sec.cor.,drains S.;ascend.

11.00 Spur 30 ft.high projects S.

Descend.

21.00 Draw 20 ft.deep,drains S.10°W.;ascend.

28.00 Top of spur 40 ft.high projects S.10°W.;descend.

34.00 Draw 50 ft.deep,drains S.;ascend.

39.99 Set a sandstone 24x7x5 ins.18 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.

On spur projects S.;descend.

42.00 Gulch 40 ft.deep,drains S.;ascend.

50.00 Top of spur 60 ft.high projects S.

55.00 Flat draw drains S.;ascend.

65.60 Spur 100 ft.high projects S.

CHAINS.	
	Descend in second growth of aspen timber.
79.50	Leave aspen timber,
	Gulch 140 ft.deep;creek 2 lks.wide.3 ins.deep,course S. 5°E.
	Ascend.
79.98	The cor.of secs.16,17,20,and 21.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	Timber aspen 13.90 chs.
	Mountainous or heavily timbered land 79.98 chs.
	Oct.9,1903:At 11h.48m.a.m.l.m.t. sky overcast,observation for latitude impossible.
	Oct.9,1903,at 2 h.00 m.p.m.l.m.t.I set off 6°03'S.on decl. arc;40°29'N.on lat.arc,and determine a true meridian with the solar at the cor.of secs.16,17,20,and 21,
	Thence I run
	N.0°03'W.bet.secs.16 and 17
	Over mountainous land;ascending along W.side of gulch.
3.50	Enter pine and aspen timber bears E.and W.
11.00	Gulch from W. ,spring branch 2 lks.wide 3 ins.deep, drains S.5°E.
	Gulch from N.15°E.joins here.
	Leave pine timber.
	Ascend W.side of gulch,through small aspen timber.
40.00	Set a sandstone 24x12x3 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.
	No suitable bearing trees within limits.
	About half way between gulch on E.and ridge on W.
	Continue ascending through brush and scrub aspen.
70.00	Top of ridge 350 ft.above sec.cor.bears N.20°E.and S.20° W.:leave aspen timber.
	Ascend over slide rock on W.slope of ridge.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS

80.00 Set a limestone 20x10x7 ins.15 ins.in the ground for cor.of secs.8,9,16,and 17,marked with 4 notches on S.and 4 notches on E.edges;and raise a mound of stone 2 ft. base 1½ ft.high W.of cor.Pits impracticable.

Land mountainous.

Soil gravelly and rocky;3rd and 4th rate.

Timber aspen and pine 70.00 chs.

Mountainous or heavily timbered land 80.00 chs.

Oct.9,1903.

Oct.10,1903,at 8 h.0 m.a.m.l.m.t.I set off 6°19'S.on decl.arc;40°30'N.on lat.arc;and determine a true meridian with the solar at the cor.of secs.8,9,16,and 17.

Thence I run

S.89°51'E.on a random line bet.secs.9 and 16

40.00 Set temp.¼ sec.cor.

80.07 Intersect N.and S.line 31 lks.S.of cor.of secs.9,10,15 and 16.Thence I run

S.89°56'W.on a true line bet.secs.9 and 16

Over mountainous land;ascending in dense pine timber.

3.00 Ridge 40 ft.above sec.cor.bears N.10°W.and S.10°E.

Descend.

31.00 Gulch 90 ft.deep,drains S.5°E.

Ascend;leave timber.

40.03½ Set a porphyry stone 24x10x3 ins.18 ins.in the ground for ¼ sec.cor.marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.

Pits impracticable.

On top of a ridge 160 ft.above draw,bears N.10°W.and S.10°E.;descend.

46.00 Enter aspen timber bears N.20°W.and S.20°E.

60.00 Gulch 200 ft.deep,drains S.5°W.;ascend.

72.00 Top of ridge 190 ft.high bears N.10°E.and S.10°W.

Leave timber,bears N.and S.;descend.

SUBDIVICION OF T.1 N.R.9 W.

CHAINS	
80.07	The cor.of secs.8,9,16,and 17.
	Land mountainous.
	Soil gravelly;4th rate.
	Timber pine and aspen 47.00 chs.
	Mountainous or heavily timbered land 80.07 chs.

N.0°03'W.bet.secs.8 and 9

	Over mountainous land;ascending steep slope.
3.30	Enter aspen timber bears E.and W.
31.50	Leave aspen timber bears N.70°E.and S.70°W.
36.50	Top of ridge 160 ft.above sec.cor.bears E.and W.
	Descend gradually.
33.80	Enter dense pine timber bears E.and W.;descend more abruptly.
40.00	Set porphyry stone 20x12x5 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	No suitable bearing trees within limits.
50.00	South side of open in timber;a draw 120 ft.deep,drains S.80°E.
55.00	North side of opening;ascend through dense brush and pines.
80.00	Set a sandstone 16x10x6 ins.10 ins.in the ground for cor. of secs.4,5,8,and 9,marked with 5 notches on S.and 4 notches on E.edge;from which
	An aspen 10 ins.diam.bears N.30°E.24 lks.dist. marked T 1 N R 9 W S 4 B T
	A pine 11 ins.diam.bears S.31°E.22 lks.dist. marked T 1 N R 9 W S 9 B T
	An aspen 10 ins.diam.bears S.52°W.48 lks.dist. marked T 1 N R 9 W S 8 B T
	An aspen 9 ins.diam.bears N.45°W.51 lks.dist. marked T 1 N R 9 W S 5 B T
	Land mountainous.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS

Soil loam,gravelly and rocky;3rd and 4th rate.

Timber aspen and pine 60.40 chs.

Mountainous or heavily timbered land 80.00 chs.

Oct.10,1903: At this corner I set off 6°24'E.on decl.arc and at 11h.47m.a.m.l.m.t.observe the sun on the meridian the resulting lat.is 40°31'N.

N.89°56'E.on a random line bet.secs.4 and 9

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

80.09 Intersect N.and S.line 8 lks.S.of the cor.of secs.3,4, 9 and 10.Thence I run

S.89°53'W.on a true line bet.secs.4 and 9

Over mountainous land;ascending over cliffs and through scattering pine timber

3.00 Top of ridge 60 ft.above sec.cor.,bears N.and S.

Descend.

20.00 Draw 60 ft.deep,drains S.30°W.;ascend.

40.04$\frac{1}{2}$ Set a sandstone 22x10x8 ins.16 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

Ascend gradually in scattering pine timber bears N.and S

73.50 Top of flat ridge spur 50 ft.high projects S.

Descend.

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

Land mountainous.

Soil loam and rocky;2nd and 4th rate.

Timber pine 80.09 chs.

Mountainous land 80.09 chs.

N.0°03'W.on random line bet.secs.4 and 5

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

79.42 Intersect N.bdy.of Tp.at the cor.of secs.4,5,32 and 33, heretofore described.Thence I run

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	S.0°3'E.on a true line bet.secs.4 and 5
	Over mountainous land;ascending in scattering pine and aspen timber.
14.00	Enter dense timber bears E.and W.
28.00	Begin abrupt ascent.
37.00	Top of ascent 270.ft.high.bears N.40°W.and S.40°E.
	Descend abruptly.
39.42	Set a red sandstone 15x10x6 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 10 ins.diam.bears N.80°E.30.1lks.dist. marked ¼ S 4 B T
	A pine 12 ins.diam.bears N.56°W.38 1lks.dist. marked ¼ S 5 B.T
	Corner in a draw 40 ft.deep,drains S.85°E.
	Ascend.
60.00	Top of spur 90 ft.high projects N.50°W.
	Descend.
70.00	Leave pine timber and enter aspen in head of small draw drains N.60°W.
	Ascend.
72.00	Ridge 80 ft.high bears E.and W.;descend.
79.42	The cor.of secs.4,5,8,and 9.
	Land mountainous.
	Soil loam and rocky;3nd and 4th rate.
	Timber aspen and pine 70.00 chs.
	Mountainous or heavily timbered land 79.42 chs.
	Oct.10,1903.

October 11: At 8 h.30 m.a.m.l.m.t.I set off 6°42'S.on decl.arc;40°26'N.on lat.arc;and determine a true meridian with the solar at the standard cor.of secs.31 and 32 on Uintah Special Base line,heretofore described.

Thence I run

N.0°04'W.bet.secs.31 and 32

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.

Over mountainous land;through scattering aspen timber; Ascending.

25.00 Leave aspen timber.

40.00 Set a limestone 17x9x4 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.

Pits impracticable.

Ascend.

70.00 Ridge 130 ft.above ¼ sec.cor.bears S.80°W.and N.80°E.

Descend.

71.00 Enter scattering pine and aspen timber;bears E.and W.

80.00 Set a red sandstone 20x8x6 ins.15 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 6 ins.diam.bears N.53°30'E.48 lks.dist. marked T.1 N R 9 W S 29 B T

An aspen 5 ins.diam.bears S.44°E.25 lks.dist. marked T 1 N R 9 W S 32 B T

A pine 24 ins.diam.bears S.39°30'W.63 lks.dist. marked T 1 N R 9 W S 31 B T

A pine 10 ins.diam.bears N.45°W.123 lks.dist. marked T 1 N R.9 W S 30 B T

Land mountainous.

Soil gravelly and rocky;3rd and 4th rate.

Timber pine and aspen 34.00 chs.

Mountainous land 80.00 chs.

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

40.00 Set temp.¼ sec.cor.

80.06 Intersect N.and S.line 19 lks.N.of cor.of secs.28,29,32 and 33.Thence I run

N.89°52'W.on a true line bet.secs.29 and 32

Over mountainous land;through willows and brush and over rocks at the bottom of bluff on the S.side of West Fork

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	of Du Chesne River.bottom.
38.00	Gulch 50 ft.deep,drains N.15°E.;ascend.
40.03	Set a red sandstone 18x10x5 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.
	Corner 9 chs.S.of river.
51.00	Top of spur 60 ft.above ¼ sec.cor.projects N.10°E.
	Descend along north side of ridge over slide rock and through brush.
68.00	Small ravine 40 ft.deep,course N.10°E.
80.06	The cor.of secs.29,30,31,and 32.
	Land mountainous.
	Soil rocky;4th rate;
	No timber.
	Mountainous land 80.06 chs.
	Oct.11:At this cor.I set off 6°47'S.on decl.arc;and at 11h 47m.a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 40°27'N.

West on a random line bet.secs.30 and 31

40.00	Set temp.¼ sec.cor.
80.30	Intersect the W.bdy.of the Tp.15 lks.N.of the cor.of secs.25,30,31,and 36 heretofore described.Thence I run

N.89°54'E.on a true line bet.secs.30 and 31

Over mountainous land;ascending through underbrush, pines and aspen timber.

40.30	Set sandstone 15x9x5 ins.10 ins.in the ground for ¼ sec. cor.;marked ¼ on N.face;from which

An aspen 6 ins.diam.bears N.40°W.31 lks.dist. marked ¼ S 30 B T

A pine 7 ins.diam.bears S.E.29 lks.dist. marked ¼ S 31 B T

Ascend abruptly.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
45.00	Spur 60 ft.above ¼ sec.cor.projects N.50°E.;
	Descend abruptly.
53.00	Canon 260 ft.deep,drains N.15°E.
	Little Sand Creek 4 lks.wide,3 ins.deep,drains same.
	Ascend through scattering aspen and pine timber;along
	N.slope.
80.30	The cor.of secs.29,30,31,and 32.
	Land mountainous.
	Soil gravel and rock;3rd and 4th rate.
	Timber pine and aspen 80.30 chs.
	Mountainous or heavily timbered land 80.30 chs.

October 11, 1903.

N.0°04'W.bet.secs.29 and 30

	Over mountainous land;
	Descend in aspen and pine timber.
9.00	Leave aspen and pine bears E.and W.
14.00	Bottom of West Fork DuChesne River,course S.85°E.52 lks.
	wide 10 ins.deep.
	Ascend.
20.00	Edge of bench 60 ft.high bears N.80°W.and S.80°E.
37.50	Indian trail bears E.and W.;ascend abruptly.
40.00	Set porphyry stone 19x12x5 ins.14 ins.in the ground for
	¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone
	2 ft.base 1½ ft.high W.of cor.Pits impracticable.
45.00	Spur 100 ft.high projects S.E.;descend.
67.00	Draw 40 ft.deep,drains S.80°E.;ascend.
70.00	Spur 40 ft.high, projects SE.;
	Descend.
79.00	Willows bear N.W.and S.E.
79.50	"Hoy's Corral Hollow" 30 ft.deep.
	Gulch branch 5 lks.wide 3 ins.deep,drains S.E.;
	Ascend.
80.00	Set a porphyry stone 18x8x4 ins.12 ins.in the ground

SUBDIVISION OF T.1 N.R.9 W.

CHAINS	
	for cor.of secs.19,20,29,and 30,marked 2 notches on S. and 5 notches on E.edge;and raise a mound of stone 3 ft. base 1½ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil sandy loam and rocky;3rd and 4th rate.
	Timber pine and aspen 9.00 chs.
	Mountainous or heavily timbered land 80.00 chs.
	Oct.12: At 11h 47m.a.m.l.m.t. sky overcast; observation for.lat.impossible.
	Oct.12:At the cor.of secs.19,20,29,and 30 at 2 h.p.m.l. m.t.I set off 7°11'S.on the decl.arc;40°28'N.on lat.arc and determine a meridian with the solar.
	Thence I run
	S.89°52'E.on a random line bet.secs.20 and 29
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line 5 lks.N.of the cor.of secs.20,21 28 and 29.Thence I run
	N.89°50'W.on a true line bet.secs.20 and 29
	Over mountainous land;descend through thin scrub aspen.
20.00	Draw 70 ft.deep,drains S.20°E.
	Spring branch 7 lks.wide,6 ins.deep.
	Ascend;leave aspen.
40.05	Set a limestone 16x8x6 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
43.00	Spur 80 ft.high projects S.20°E.;descend.
50.00	Draw 75 ft.deep,drains S.E.;ascend.
54.00	Spur 40 ft.high projects S.E.;descend.
80.10	The cor.of secs.19,20,29,and 30.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	Timber aspen 20.00 chs.
	Mountainous land 80.10 chs.
	Oct.12,1903.
	Oct.13,1903,At 8 h.a.m.l.m.t.I set off 7°27'S.on decl. arc;40°28'N.on lat.arc,and determine a meridian with the solar at the cor.of secs.19,20,29,and 30,
	Thence I run
	S.89°54'W.on a random line bet.secs.19 and 30
40.00	Set a temp.$\frac{1}{4}$ sec.cor.
80.30	Intersect the W.bdy.of the Tp.5 lks.N.of cor.of secs.19 24.25.and 30,heretofore described.
	Thence I run
	N.89°52'E.on a true line bet.secs.19 and 30
	Over mountainous land;ascend.
15.00	Top of spur 80 ft.high bears N.60°E.and S.60°W.
	Descend.
25.00	Head of draw 60 ft.deep,drains S.40°W.;ascend.
38.00	Ridge 100 ft.high bears N.W.and S.E.;descend.
40.30	Set sandstone 16x9x4 ins.11 ins.in the ground for $\frac{1}{4}$ sec cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
44.00	Draw 60 ft.deep,drains S.30°E.;ascend.
48.00	Spur 40 ft.high projects SE.
	Descend.
65.00	Draw 50 ft.deep,drains S.35°E.;ascend.
70.00	Spur 50 ft.high projects S.E.
	Descend.
79.20	Enter willows bear N.W.and S.E.
79.75	Hoy's Corral Hollow.
	Spring branch 3 lks.wide,2 ins.deep,drains S.E.
80.30	The cor.of secs.19,20,29,and 30.
	Land mountainous.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	Soil sandy loam;gravelly and rocky;3rd and 4th rate.
	No timber.
	Mountainous land or land covered with dense undergrowth on 80.30 chs.
	Oct.13: At this cor.I set off 7°32'S.on decl.arc;and at 11h.47m.a.m.l.m.t., observe the sun on the meridian;the resulting lat.is 40°28'N.
	N.0°04'W.bet.secs.19 and 20
	Over mountainous land;through willows.
1.00	Leave willows bear N.W.and S.E.
	Ascend.
35.00	Ridge 180 ft.high bears N.40°W.and S.40°E.;descend.
40.00	Set a sandstone 15x7x4 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	In a draw 60 ft.deep,drains S.40°E.
	Ascend long slope to S.W.
80.00	Set a limestone 18x8x8 ins.12 ins.in the ground for cor. of secs.17,18,19,and 20,marked with 3 notches on S.and 5 notches on E.edge;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate;
	No timber.
	Mountainous land 80.00 chs.
	Oct.13,1903.
	Oct.14,1903:At 8 h.a.m.sky overcast observation for meridian impossible.
	S.89°50'E.on a random line bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
80.05	Intersect N.and S.line 34 lks.S.of the cor.of secs.16,17

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	20 and 21.Thence I run
	S.89°55'W.on a true line bet.secs.17 and 20
	Over mountainous land;ascending.
10.00	Top of spur projects S.E.;descend.
16.00	Enter aspen timber bears N.40°W.and S.40°E.
22.00	Leave aspen bears N.65°W.and S.65°E.
37.00	Trail bears N.W.and S.E.
38.00	Enter willows and aspens bear N.40°W.and S.40°E.
40.02½	Set sandstone 15x9x7 ins.10 ins.in the ground for ¼ sec. cor.,marked ¼ on N.face;from which
	An aspen 9 ins.diam.bears N.44°W.42 lks.dist. marked ¼ S 17 B T
	An aspen 8 ins.diam.bears S.67°E.39 lks.dist. marked ¼ S 20 B T
42.00	Bottom of Wolf Creek Canon;creek 8 lks.wide,5 ins.deep, drains S.70°E.;ascend.
43.20	Enter dense pine timber bears N. 80°W.and S.80°E.
76.70	Leave timber.
78.00	Top of Wolf Creek Ridge 220 ft.high bears S.70°E.and N.50°W.
80.05	The cor.of secs.17,18,19,and 20.
	Land mountainous.
	Soil gravelly loam and rocks;3rd and 4th rate.
	Timber pine and aspen 44.70 chs.
	Mountainous or heavily timbered land 80.05 chs.
	Oct.14:At this cor.I set off 7°54'S.on decl.arc;and at 11h.46m.a.m.l.m.t.observe the sun on the meridian;the resulting lat.is 40°29'N.
	S.89°52'W.on a random line bet.secs.18 and 19
40.00	Set temp.¼ sec.cor.
80.25	Intersect W.bdy.of Tp.at the cor.of secs.13,18,19,and 24,heretofore described.
	Thence I run

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	N.89°52'E.on a true line bet:secs.18 and 19
	Over mountainous land;ascending long slope to S.W.;through aspen timber.
28.00	Ridge 130 ft.high bears S.E.and N.W.
	Descend and leave.aspen timber.
39.00	Draw 90 ft.deep,drains S.40°E.;ascend.
40.25	Set a limestone 15x10x4 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.
	Ascend long slope to S.W.
80.25	The cor.of secs.17,18,19,and 20.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	Timber aspen 28.00 chs.
	Mountainous or heavily timbered land 80.25 chs.

N.0°04'W.bet.secs.17 and 18

	Ascending over mountainous land.
0.60	Top of Woolf Creek Ridge bears N.W.and S.E.
	Descend abruptly.
3.60	Enter dense pine timber bears E.and W.
10.00	Leave dense pine timber.bears N.30°W.and S.30°E.
11.00	Bottom of Woolf Creek Canon 200 ft.deep;creek 6 lks.wide 5 ins.deep,course S.40°E.
	Ascend through aspen timber.
30.00	Small ridge 110 ft.high bears N.35°Wand S.35°E.
	Descend gradually.
35.00	Woolf Creek Trail bears N.40°W.and S.40°E.
40.00	Set a sandstone 18x8x4 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	An aspen 6 ins.diam.bears S.87°E.105 lks.dist. marked ¼ S 17 B T
	An aspen 5 ins.diam.bears N.58°W.60 lks.dist.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS

marked $\frac{1}{4}$ S 18 B T

Ascend gradually.

60.00 Spur 130 ft.high projects S.15°W.

Descend.

70.00 Draw 80 ft.deep,drains S.18°W.;ascend.

80.00 Set a porphyry stone 20x9x7 ins.15 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

An aspen 5 ins.diam.bears N.75°E.28 lks.dist. marked T 1 N R 19 W S 8.B T

An aspen 7 ins.diam.bears S.53°E.84 lks.dist. marked T 1.N R 9 W S.17.B T

An aspen 6 ins.diam.bears S.65°W.88 lks.dist. marked T 1 N R 9 W S 18 B T

An aspen 5 ins.diam.bears N.52°W.64 lks.dist. marked T 1 N R 9 W S 7 B T

Land mountainous.

Soil gravelly and rocky;3rd and 4th rate.

Timber pine and aspen 75.40 chs.

Mountainous or heavily timbered land 80.00 chs.

Oct.14,1903.

Oct.15,1903;At 8h.30m a.m.t.l.m.t.I set off 8°12'S.on decl.arc;40°30'N.on lat.arc;and determine a true meridian with the solar at the cor.of secs.7,8,17 and 18. Thence I run

N.89°55'E.on a random line bet.secs.8 and 17

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

79.95 Intersect N.and S.line 5 lks.N.of the cor.of secs.8,9, 16 and 17.Thence I run

S.89°57'W.on a true line bet.secs.8 and 17

Over mountainous land;descending through scattering aspe timber.

12.00 Bottom of gulch 90 ft.deep,drains S.10°W.;ascend.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
23.00	Ridge 85 ft.high bears N.and S.
	Leave timber;ascend.
36.00	Gulch 80 ft.deep,drains S.
	Ascend through scattering timber bears N.and S.
39.97½	Set a sand-stone 30x8x7 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.
	On E.side of ridge in a little swale on open spot,in timber.
43.00	Ridge 60 ft.high bears N.and S.
	Descend.
52.00	Draw 50 ft.deep,drains S.20°W.
	Ascend.
60.00	Spur 40 ft.high projects S.30°W.
	Descend.
70.00	Draw 40 ft.deep,drains S.25°W.;ascend.
79.95	The cor.of secs.7,8,17,and 18.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	Timber scattering aspen 23.00 chs.
	Mountainous land 79.95 chs.

S.89°52'W.on a random line bet.secs.7 and 18

40.00	Set temp.¼ sec.cor.
80.20	Intersect W.bdy.of Tp.26 lks.S.of cor.of secs.7,12,13, and 18 heretofore described.
	Thence I run
	S.89°57'E.on a true line bet.secs.7 and 18
	Over mountainous land.
	Ascending through aspen timber.
3.00	Dry lake bed 3 chs.S.of line;3 chs.diam.
35.00	Spur 120 ft.high projects S.10°E.;descend.
40.20	Set a sandstone 16x10x4 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

SUBDIVISION OF T.1 N.R 9 W.

CHAINS

An aspen 6 ins.diam.bears N.30°E.30 lks.dist. marked ¼ S 7 B T

An aspen 7 ins.diam.bears S.75 lks.dist. marked ¼ S 18 B T

45.00 Draw 90 ft.deep,drains S.;ascend.

58.00 Spur 100 ft.high projects S.15°E.;descend.

68.00 Draw 80 ft.deep,drains S.15°E.;ascend.

70.10 Leave heavy aspen and enter scattering aspen timber bear N.and S.

80.20 The cor.of secs.7,8,17,and 18.

Land mountainous.

Soil loam and rocky 3rd and 4th rate.

Timber aspen 80.20 chs.

Mountainous or heavily timbered land 80.20 chs.

Oct.15:At 11h 46m a.m.l.m.t., sky overcast,observation for lat.impossible.

N.0°04'W.bet.secs.7 and 8

Ascending through scattering aspen timber;along W.slope of spur.

35.00 Head of draw drains S.20°W.

40.00 Set a porphyry stone 17x8x8 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which

An aspen 7 ins.diam.bears N.75°E.48 lks.dist. marked ¼ S 8 B T

An aspen 8 ins.diam.bears S.80°W.35 lks.dist. marked ¼ S 7 B T

43.00 Leave aspen timber bears N.40°W.and S.40°E.

56.00 Ridge 190 ft.above ¼ sec.cor.bears N.30°W.and S.30°E.

Enter heavy pine timber,bears with ridge.

Descend.

75.00 Draw 120 ft.deep,drains S.60°E.

Ascend.

80.00 Set a sandstone 16x10x4 ins.11 ins.in the ground for

CHAINS.

cor.of secs.5,6,7,and 8,marked with 5 notches on S.and 5 notches on E.edge;from which

A pine 10 ins.diam.bears N.22°E.42 lks.dist. marked T 1 N R 9 W S 5 B T

A pine 9 ins.diam.bears S.56°E.33 lks.dist. marked T 1 N R 9 W S 8 B T

A pine 8 ins.diam.bears S.39°W.109 lks.dist. marked T 1 N R 9 W S 7 B T

A pine 11 ins.diam.bears N.76°W.98 lks.dist. marked T 1 N R 9 W S 6 B T

Land mountainous.

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

Timber pine and aspen,67.00 chs.

Mountainous or heavily timbered land 80.00 chs.

Oct.15,1903.

Oct.16,1903,at 8 h.o m.a.m.l.m.t.I set off 8°34'S.on decl.arc;40°31'N.on lat.arc,and determine a true meridian with the solar at the cor.of secs.5,6,7,and 8.

Thence I run

N.89°57'E.on a random line bet.secs.5 and 8

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

80.20 Intersect N.and S.line 5 lks.N.of the cor.of secs.4,5, 8 and 9.Thence I run

S.89°59'W.on a true line bet.secs.5 and 8

Along S.slope in thick pines.

23.00 Head of draw 110 ft.deep,drains S.20°E.;ascend through aspen and pine timber.

34.00 Ridge 120 ft.high bears N.70°W.and S.70 E.;descend.

40.10 Set a sandstone 15x8x6 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which

A pine 6 ins.diam.bears N.39°E.28 lks.dist. marked $\frac{1}{4}$ S 5 B T

A pine 15 ins.diam.bears S.10°30'W.34 lks.dist.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.	
	marked ¼ S 8 B T
	Descend along S.slope of ridge;through dense pine timber
80.20	The cor.of secs.5,6,7,and 8.
	Land mountainous.
	Soil loam and rocky;3rd and 4th rate.
	Timber pine and some aspen 80.20 chs.
	Mountainous,or heavily timbered land 80.20 chs.
	Oct.16,1903:At this cor.I set off 8°39'E.on decl.arc; and at 11h.46m.a.m.l.m.t., observe the sun on the meridian; the resulting lat.is.40°31'N.
	N.89°57'W.on a random line bet.secs.6 and 7
40.00	Set temp.¼ sec.cor.
80.16	Intersect W.bdy.of Tp.3 lks.S.of the cor.of secs.1,6,7 and 12,heretofore described.Thence I run
	S.89°56'E.on a true line bet.secs.6 and 7
	Ascending over mountainous land;through dense pine timber.
5.00	Leave pine timber bears S.80°E.and N.80°W.
10.00	Small draw drains S. E.
23.00	Enter dense pine timber bears N.80°W.and S.80°E.
40.16	Set a sandstone 15x10x6 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 9 ins.diam.bears S.47°W.47 lks.dist. marked ¼ S 7 B T
	A pine 12 ins.diam.bears N.17°E.20 lks.dist. marked ¼ S 6 B T
41.00	Ridge 120 ft.high bears N.65°W.and S.65°E.
	Descend through pines bear N.80°W.and S.80°E.
70.00	Draw 90 ft.deep,drains S.60°E.
	Ascend.
80.16	The cor.of secs.5,6,7,and 8.
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.

Timber pine 62.16 chs.

Mountainous or heavily timbered land 80.16 chs.

Knowing that the line bet.secs.5 and 6 will intersect the West boundary of the Uintah Indian Reservation, I run

N.0°04'W.on a true line bet.secs.5 and 6

Ascending through dense pine timber.

15.65 Intersect W.Bdy.of Uintah Indian Reservation

Set a sandstone 24x15x8 ins.18 ins.in the ground for closing corner for secs.5 and 6,marked C C U I R with 5 grooves on E. 5 grooves on S.and UFR on N.faces;from which

A pine,14 ins.diam.,bears S.17°W.,85 lks.dist., marked T 1 N R 9 W S 6 B T.

A pine,12 ins.diam.,bears S.19°E.,113 lks.dist., marked T 1 N R 9 W S 5 B T.

From the closing corner the 169th mile corner on the boundary as established by Deputies A.H.and F.M.Brown bears N.56°30'E.13.20 chs.dist.

Land mountainous.

Soil rocky 4th rate.

Timber pine 15.65 chs.

Mountainous land heavily timbered 15.65 chs.

Oct.16,1903.

G-E-N-E-R-A-L D-E-S-C-R-I-P-T-I-O-N.

.....ooo.....

This township might easily be called entirely mountainous,with the exception of a few small flats lying N.of the West Fork of the Du Chesne River.

The soil is gravelly and rocky mostly;there being but little sand or loam.

Along the canons are cliffs of red sandstone,porphy-

SUBDIVISION OF T.1 N.R.9 W.

CHAINS.

ry and limestone.

The northern and northwestern portions of the Tp. are heavily timbered with pine, while the southern and western portions are mostly aspen. The undergrowth consists of mostly all kinds of brush; also willows.

The drainage of the whole township is into the West Fork of the Du Chesne River and Woolf Creek, with the exception of a few sections in the northeastern part which drain into the North Fork of the Du Chesne River.

Some parts of the township might be called good grazing land, but in no large areas does the grass grow very abundantly. The western and southern portions are used for grazing sheep.

There are no doubt several historical Indian graves in this township, but we were unable to locate same.

There are no indications of mineral in this township, except two or three little streaks of asphaltum in secs. 25 and 26 on the north side of the West Fork, as previously mentioned in these notes.

No Indians inhabit this township and no wonder they don't.

The occupants of this township are a few horses belonging to some Indians living below the Forks of the Du Chesne River; a few deer, sage hens, porcupines, bears and wild cats.

Fred Johnson

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 Fred Johnson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisional lines of T.1 N.R.9 W.,of the Uintah Special Base and Meridian, Utah.
showing the respective capacities in which they acted:

Chas.Walter Heinecke, *Chainman.*

A.H.Rock, *Chainman.*

Delbert Bowers, *Moundman.*

, *Moundman.*

W.T.Muse, *Axman.*

Freemen Bowers, *Axman.*

Ralph Labrum, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Fred Johnson, United States Deputy Surveyor, in surveying all those parts or portions of the the Subdivisional lines of T.1 N.R.9 W. of the Uintah Special Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Chas. Walter Heinecke, *Chainman.*

A. H. Rock, *Chainman.*

Delbert Bowers, *Moundman.*

, *Moundman.*

W T Muse, *Axman.*

Freemen Bowers, *Axman.*

Ralph Labrum, *Flagman.*

Subscribed and sworn to before me this 16th day of October, 1903

SEAL

Fred Johnson
U.S. Dep. Surveyor.

0—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Fred Johnson, 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 10th day of August, 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 Subdivisional lines of Townsh 1 N.R.9 W.,

of the Uintah Special Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and tha 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 1846.

Fred [illegible]
ited States De ut Surveyor.

Subscribed by said Fred Johnson, and sworn to before me this 16th day of July 1904

Edward [illegible]
U.S.Surveyor-General

SEAL

for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 14, 1904.

The foregoing field notes of the survey of the Subdivisional lines of T.1 N.R.9 W., of the Uintah Special Base and Meridian, Utah

executed by Fred Johnson under his contract No. 276, dated August 10, 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.

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 Genera

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BOOK A-311

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FILED
SEP 30 1904

FIELD NOTES

OF THE SURVEY OF THE

SOUTH AND NORTH BOUNDARIES

OF

TOWNSHIP NO. 2 NORTH

RANGE NO. 8 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

Fred Johnson, *United States Deputy Surveyor,*

Under his Contract No. 276, *dated* Aug. 10, *190*3.

Survey commenced October 17, *190*3

Survey completed October 27, *190*3.

6—151

S Bdy high 5.79.80'
OL " " 5.79.28

NAMES AND DUTIES OF ASSISTANTS.

Chas. Walter Heinecke	Chainman.
A.H.Hock	Chainman.
Delbert Bowers	Roundman.
W.F.Muse	Axman
Freeman Bowers	Axman
Ralph Labrum	Flagman.

BOOK A-311

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, CHARLES WALTER HEINECKE and A. H. ROCK 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 N. bdys. of Tps. 1-2 and 3 N., R. 8 W., Uintah Special Base and Meridian, U

Chas. Walter Heinecke, Chainman.

A. H. Rock, Chainman.

Subscribed and sworn to before me this 15th day of June 1904 189

Fred Johnson
U.S. Dep.

SEAL

We, Delbert Bowers 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 my skill and ability, in the survey of N. bdys. of Tps. 1-2-and 3 N., R. 8 W., of Uintah Special Base and Meridi Utah.

Delbert Bowers, Moundman.

, Moundman.

Subscribed and sworn to before me this 15th day of June 1904 189

Fred Johnson
U.S. Dep.

SEAL

We, W. T. Muse and Freemen Bowers 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 N. bdys. of Tps. 1-2-3 N., R. 8 W., of Uintah Special Base and Meridian, U

W. T. Muse, Axman.

Freemen Bowers, Axman.

Subscribed and sworn to before me this 15th day of June 1904, 189

Fred Johnson
U.S. Dep. Surv.

SEAL

I, Ralph Labrum, 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 N. bdys., Tps. 1-2-3 N., R. 8 W., of Uintah Special Base and Meridian,

Ralph Labrum Flagman.

Subscribed and sworn to before me this 15th day of June 1904, 189

Fred Johnson
U.S. Dep.

SEAL

6—151

SOUTH BOUNDARY OF T. 2 N. R. 8 W.

Chains. Deputy Washington Jenkins not having established the South boundary of T.2 N.R.8 W.;and not being able to do so within the present year I find it necessary,in order to proceed with the survey of T.2 N.R.8 W.to survey said line as follows:

Survey commenced Oct.17,1903,and executed with a W.and L.E.Gurley light mountain transit with solar attachment. The horizontal limb is provided with two 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 August 20,1903.

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

At the cor.of Tps.1 and 2 N.Rs.7 and 8 W.,which is a sandstone 8x5x6 ins.above ground,firmly set and marked and witnessed as described by Deputy Francis M.Lyman Jr. under his contract No.274,in latitude 40°32'N.;long.110° 45'W.,I set off 40°32'N.on the lat.arc;9°03'S.on the decl.arc;and at 3 h.0 m.p.m.l.m.t.determine with the solar a true meridian and mark a point thereof on a stone firmly set in the ground 5 chs.N.of the cor.

At 11 h.43 m.p.m.l.m.t.I observe Polaris at upper culmination in accordance with instructions in the Manual, and mark a point in the meridian thus determined on the stone already set 5 chs.N.of my station,on which the meridian falls 0.3 ins.W.of the mark determined by the solar.

Oct.17,1903.

SOUTH BOUNDARY T. 2 N. R. 8 W.

Chains

Oct.18,1903,at 8 h.0 m.a.m.l.m.t.I set off 40°32'N.on the lat.arc;9°18'S.on the decl.arc;and mark a point in the meridian determined with the solar by a cross on the stone already set 5 chs.N.of my station;this mark falls 0.3 ins.west of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridian respectively about 0'16" E.and 0' 16" W.of the meridian established by the Polaris obs.; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h.30 m. a.m.is N.17°00'W.;the angle thus determined gives the mag.decl.17°00'E.

From the corner above described I run west on a random line along N.bdy.of T.2 N.R.8 W.,setting temp.$\frac{1}{4}$ sec.and sec.cors.at intervals of 40.00 chs.and at 479.90 chs.intersect the Second Guide Meridian West 69 lks.S.of the cor.of Tps.1 and 2 N.Rs.8 and 9 W.,heretofore described. The falling answers to a correction of 0°05',or 12 lks. N.per mile counting from the NE.cor.of the Tp.

Oct.19,1903,at 8 h.0 m.a.m.l.m.t.I set off 9°40'S.on decl.arc;40°32'N.on lat.arc and determine a true meridian with the solar.

From said corner of Tps.1 and 2 N.Rs.8 and 9 W.I run

S.89°55'E.on a true line bet.secs.6 and 31

Over mountainous land through heavy pine and aspen timber;along S.slope of spur,projecting E.;ascending.

9.90 Set a limestone 16x10x8 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which

A pine 5 ins.diam.bears S.50°E.19 lks.dist. marked $\frac{1}{4}$ S 6 B T

A pine 10 ins.diam.bears N.60°W.72 lks.dist. marked $\frac{1}{4}$ S 31 B T

5.00 Top of ridge bears N.and S.

SOUTH BOUNDARY OF T 2 N.R.8 W.

Chains	
79.90	Set a sandstone 18x12x5 ins.12 ins.in the ground for cor.of secs.5,6,31,and 32,marked with 1 notch on W.and 5 notches on E.edge;from which A pine 4 ins.diam.bears S.21°W.80 lks.dist. marked T 1 N R 8 W S 6 B T A pine 5 ins.diam.bears N.7°W.103 lks.dist. marked T 2 N R 8 W S 31 B T A pine 4 ins.diam.bears S.63°E.70 lks.dist. marked T 1 N R 8 W S 5 B T A pine 4 ins.diam.bears N.20°E.138 lks.dist. marked T 2 N R 8 W S 32 B T Land mountainous. Soil rocky;4th rate. Timber pine and aspen. Mountainous land heavily timbered 79.90 chs.
	S.89°55'E.bet.secs.5 and 32 Descending through dense pine and aspen timber over mountainous land along S.slope of spur projecting E.
32.00	Leave dense;enter scattering pine and aspen timber bears NW and SE. Dry gulch drains SW.;ascend.
40.00	Set a sandstone 12x14x4 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which A pine 18 ins.diam.bears N.30°W.240 lks.dist. marked ¼ S 32 B T No other bearing trees within limits;raise a mound of stone 2 ft.base 1½ft.high N.of cor.Pits impracticable.
80.00	Set a sandstone 14x10x8 ins.9 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 5 ins.diam.bears S.46°W.230 lks.dist. marked T 1 N R 8 W S 5 B T A pine 4 ins.diam.bears N.43°W.164 lks.dist. marked T 2 N R 8 W

Chains.

marked T 2 N R 8 W S 32 B T

A pine 8 ins.diam.bears N.30°E.95 lks.dist.

marked T 2 N R 8 W S 33 B T

A pine 8 ins.diam.bears S.30°E.60 lks.dist.

marked T 1 N R 8 W S 4 B T

Land mountainous.

Soil rocky;4th rate.

Timber pine and aspen.

Mountainous or heavily timbered land 80.00 chs.

Oct.19,1903,at this cor.I set off 9°45'S.on the decl.arc and at 11h.45m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40°32'N.

S.89°55'E.bet.secs.4 and 33

Over mountainous land,through heavy pine and aspen timber;ascending.

25.80 Ridge bears NW.and SE.;descend gradually.

40.00 Set a limestone 16x10x8 ins.11 ins.in the ground,for 1/4 sec.cor.;marked 1/4 on N face; from which

A pine 10 ins.diam.bears S.22°E.198 lks.dist.

marked 1/4 S 4 B T

A pine 5 ins.diam.bears N.3°E.170 lks.dist.

marked 1/4 S 33 B T

61.00 Spur projects SE.;descend abruptly.

80.00 Set a sandstone 18x12x5 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 20 ins.diam.bears N.3°W.25 lks.dist.

marked T 2 N R 8 W S 33 B T

A pine 12 ins.diam.bears N.34°E.26 lks.dist.

marked T 2 N R 8 W S 34 B T

A pine 24 ins.diam.bears S.5°E.30 lks.dist.

marked T 1 N R 8 W S 3 B T

A pine 24 ins.diam.bears S.44°W.46 lks.dist.

marked T 1 N R 8 W S 4 B T

SOUTH BOUNDARY T.2 N.R.8 W.

Chains	
	Land mountainous.
	Soil stony; 4th rate.
	Timber pine and aspen.
	Mountainous land, scattering timber 80.00 chs.
	S.89°55'E.bet.secs.5 and 54
	Descending through dense pine timber; over mountainous land
24.50	Dry wash drains SE.; ascend.
27.00	Spur projects SE.; descend.
32.50	Dry wash drains south; ascend.
36.50	Spur projects S.; descend.
40.00	Set a sandstone 16x8x6 ins. 11 ins. in the ground for ¼ sec.cor., marked ¼ on N.face; from which
	A pine 5 ins.diam.bears N.8°W.25 lks.dist.
	marked ¼ S 34 B T
	A pine 10 ins.diam.bears S.33°W.94 lks.dist.
	marked ¼ S 3 B T
42.00	Dry wash drains SW.; ascend.
80.00	Set a sandstone 16x8x6 ins, 11 ins. in the ground for cor. of secs.2,3,34, and 35, marked with 2 notches on E. and 4 notches on W. edges; from which
	A pine 10 ins.diam.bears N.7°W.38 lks.dist.
	marked T 2 N R 8 W S 34 B T
	A pine 9 ins.diam.bears N.16°E.103 lks.dist.
	marked T 2 N R 8 W S 35 B T
	A pine 8 ins.diam.bears S.12°W.142 lks.dist.
	marked T 1 N R 8 W S 3 B T
	A pine 10 ins.diam.bears S.12°E.178 lks.dist.
	marked T 1 N R 8 W S 2 B T
	Land mountainous.
	Soil rocky; 4th rate.
	Timber pine and aspen.
	Mountainous land heavily timbered 80.00 chs.
	Oct.19,1903.

SOUTH BOUNDARY OF T.2 N.R.8 W.

Chains	
	Oct.20,1903,at 8 h.00 m.a.m.l.m.t.I set off 10°01'3.on the decl.arc;40°32'N.on the lat.arc,and determine a true meridian with the solar at the cor.of secs.2,3,34,and 35
	Thence I run
	S.89°55'E.bet.secs.2 and 35
	Over mountainous land,ascending through scattering pine timber.
10.00	Point of spur projects SW.;descend.
16.00	Dry wash drains SW.;ascend.
40.00	Set a sandstone 18x10x5 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 10 ins.diam.bears S.20°W.17 lks.dist.
	marked ¼ S 2 B T
	A pine 6 ins.diam.bears N.35°W.23 lks.dist.
	marked ¼ S 35 B T
45.00	Spur projects south.
68.00	Dry wash drains SW.;ascend:
80.00	Set a sandstone 22x12x5 ins.16 ins.in the ground for cor.of secs.1,2,35,and 36,marked with 1 notch on E.and 5 notches on W.edges;from which
	A pine 5 ins.diam.bears S.38°E.103 lks.dist.
	marked T 1 N R 8 W S 1 B T
	A pine 8 ins.diam.bears N.26°W.151 lks.dist.
	marked T 2 N R 8 W S 35 B T
	A pine 10 ins.diam.bears S.8°W.215 lks.dist.
	marked T 1 N R 8 W S 2 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 mountainous.
	Soil, rocky;4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.

SOUTH BOUNDARY OF T.2 N.R.8 W.

Chains.	
	S.89°55'E.bet.secs.1 and 36
	Over mountainus land;through scattering timber.
15.00	Leave timber;ascend abruptly over rocky NW.slope of mesa.
28.00	Top of rocky mesa.
40.00	Set a sandstone 24x12x5 ins.18 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
49.00	Descend.
62.00	Head of dry gulch,drains S.
80.00	The cor.of Tps.1 and 2 N.Rs.7 and 8 W.
	Land mountainous.
	Soil rocky 4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.
	Oct.20,1903.

For general description see notes of subdivision of T.2 N.R.8 W.

O RY T 2 N R 8 W

Chain .

Survey commenced Oct.25,1903,and executed with the instrument described in book"A"of this survey.

From recent test made Oct.22,1903 at the cor.of Tps.1 and 2 N.Rs.8 and 9 W.,and recorded in book"G" of this survey,I know the instrument to be in adjustment.

At the cor.of Tps.2 and 3 N.Rs.7 and 8 W..which is a quartz stone,12x12x6" ins.above ground firmly set and marked and witnessed as described by Deputy Lyman under his contract No.274,at 8 h.00 m.a.m.l.m.t.I set off 40°37'N. on lat.arc,11°48'S.on decl.arc and determine a true meridian with the solar.Thence I run

West,W.on a random line along N.bdy.of T.2 N.R.8 W.,setting temp.$\frac{1}{4}$ sec.and sec.cors.at intervals of 40.00 chs.and at 479.28 chs.intersect the Second Guide Meridian West135 lks.S.of the cor.of Tps.2 and 3 N.Rs.8 and 9 W.,heretofore described. The falling answers to a correction of 0°20' or 23 lks.N.per mile counting from the NE.cor.of the township.

October 25,1903.

Oct.26,1903.at 8 h.00 m.a.m.l.m.t.I set off 12°09'S.on decl.arc;40°37'N.on lat.arc,and determine a true meridian with the solar at the cor.of Tps.2 and 3 N.Rs.8 and 9 W. Thence I run

S.89°50'E.on a true line bet.secs.6 and 31

Over mountainous land and loose slide rock;ascending abruptly;

21.00 Top of ridge bears NW.and SE.;descend.

22.00 Begin abrupt descent.

39.28 Point for $\frac{1}{4}$ sec.cor.falls on rock in place,a sandstone 3x2x2 ft .above ground,on which

Cut a cross (X) at the corner point for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ N.of cross;and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

NORTH BOUNDARY OF T.2 N.R.8 W.

Chains.	
	Descend gradually.
79.28	Point for corner falls on sandstone boulder in place, 4x3x1 ft.above ground,on which Cut a cross (X) at point for corner of secs.5,6,31,and 32,marked 5 grooves E.and 1 groove W.of cross;and raise a mound of stone 3 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 79.28 chs.
	S.89°50'E.bet.secs.5 and 32
	Over mountainous land;descending over loose slide rock.
6.80	Shore of lake, Set a sandstone 16x10x8 ins.11 ins.in the ground for meander cor.for fracl.secs.5 and 32,marked MC on E. T 3 N S 32 on N. T 2 N S 5 on S. R 8 W on W.face, with 1 groove on W.face;dig pit 36x36x12 ins.8 ft.dist. W.of stone;and raise a mound of earth 4 ft.base 2 ft. high W.of cor.
	To pass lake I offset as follows: S.3°W.7.50 chs.; thence S.89°50'E.27.90 chs.;at 19.50 chs.inlet to lake 15 lks.wide;thence N.3°E.7.50 chs.to
34.70	E.shore of lake, Set a sandstone 15x8x8 ins.10 ins.in the ground for meander cor.for fracl.secs.5 and 32,marked MC on W. T 3 N S 32 on N. T 2 N S 5 on S. R 8 W and 5 grooves on E.face;dig pit 36x36x12 ins. 8 ft.dist.E.of stone,and raise a mound of earth 4 ft.base 2 ft.high E.of cor.

NORTH BOUNDARY OF T.2 N.R.8 W.

Chains.	
40.00	Set a sandstone 18x12x5 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft. ft.base 1½ ft.high N.of cor.Pits impracticable. Ascend abruptly.
55.00	High rocky spur projects N.;descend abruptly.
70.00	Enter dense pine timber bears N.and S.
72.00	W.side of large lake, Set a sandstone 15x8x6 ins.10 ins.in the ground for meander cor.of fracl.secs.5 and 32;marked M C on E. T 3 N S 32 on N. ;T 2 N S 5 on S. R 8 W and 2 grooves on W.face;from which A pine 10 ins.diam.bears N.27°W.53 lks.dist.marked T 3 N R 8 W S 32 M C B T A pine 8 ins.diam.bears S.66°W.74 lks.dist. marked T 2 N R 8 W S 5 M C B T
	To pass lake offset as follows: N.4.50 chs.;thence S. 89°50'E.8.00 chs.;thence S.4.50 chs.to
80.00	Set a sandstone 18x8x5 ins.12 ins.in the ground for meander cor.and corner of secs.4,5,32,and 33;marked M C and 2 grooves on W. T 3 N on N. T 2 N on S. R 8 W and 4 grooves on E.face;from which A pine 12 ins.diam.bears N.4°W.100 lks.dist. marked T 3 N R 8 W S 32 M C B T A pine 11 ins.diam.bears N.64°E.33 lks.dist. marked T 3 N R 8 W S 33 M C B T A pine 8 ins.diam.bears S.60°E.60 lks.dist. marked T 2 N R 8 W S 4 M C B T dig a pit 36x36x12 ins.8 ft.E.of stone;and raise a mound of earth 4 ft.base 2 ft.high E.of cor. Land mountainous. Soil rocky;4th rate. Timber pine.

NORTH BOUNDARY OF T.2 N.R.8 W.

Chains.	
	Mountainous land 80.00 chs.
	Oct.36,1903,at this cor.I set off 12°14' S.on decl.arc;and at 11h.44m.a.m.,l.m.t.observe the sun on the meridian;the resulting lat.is 40°37'N.
	S.89°50'E.bet.secs.4 and 33
	Over mountainuus land;ascending through dense pine timber.
10.00	Low spur projects S.;descend.
30.00	Large lake 50 lks.S.of line;ascend.
40.00	Set a sandstone 12x10x6 ins.8 ins.in the ground for ¼ sec.cor.;marked ¼ on N.face;from which A pine 13 ins.diam.bears N.43°E.46 lks.dist. marked ¼ S 33 B T A pine 14 ins.diam.bears S.36°E.46 lks.dist. marked ¼ S 4 B T
42.00	Top of spur projects SE.;descend.
51.95	Point falls on large boulder 3x2x2 ft.above ground,on W.side of lake,on which I cut a cross (X) at the corner point for meander cor. for fracl secs.4 and 33,marked M C [illegible]E., T 3 N S 33 on N. T 2 N S 4 on S. R 8 W and 3 grooves on W.face;from which A pine 10 ins.diam.bears N.60°W.75 lks.dist. marked T 3 N R 8 W S 33 M C B T A pine 6 ins.diam.bears S.20°W.46 lks.dist. marked T 2 N R 8 W S 4.M C B T To cross lake I prolong direction S.89°50'E.bet.secs.4 and 33 and set flag on E.side of lake;to determine dist. to flag I lay off a base S 0°10'W.5.11 chs.to a point,at which the angle between flag and meander cor.meaures 43°15'. From the flag the base line subtends an angle of 46°45';sum of which is 90°00',and dist.across lake is

NORTH BOUNDARY OF T 2 N R.8 W

Chains.	
	5.11 chs. x tang.43°15',equals 4.81 chs.;from said meander across lake
56.76	In place of flag I set a sandstone 12x10x8 ins.8 ins.in the ground for meander.cor.for fracl.secs.4 and 33, marked M C on W.,
	T 3 N S 33 on N.
	T 2 N S 4 on S.
	R 8 W and 3 grooves on E.face;from which
	A pine 10 ins.diam.bears N.18°E.43 lks.dist.
	marked T 3 N S 33 M C B T
	A pine 8 ins.diam.bears S.71°E.18 lks.dist.
	marked T 2 N S.4 M C B T
	Ascend abruptly.
72.00	Top of timbered bench;ascend gradually.
80.00	Set a sandstone 15x10x8 ins.10 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 10 ins.diam.bears N.64°W.24 lks.dist.
	marked T 3 N R 8 W S 33 B T
	A pine 12 ins.diam.bears N.69°E.52 lks.dist.
	marked T 3 N R 8 W S 34 B T
	A pine 13 ins.diam.bears S.26°E.44 lks.dist.
	marked T 2 N R 8 W S 3 B T.
	A pine 8 ins.diam.bears S.62°W.16 lks.dist.
	marked T 2 N R 8 W S 4 B T
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land,heavily timbered 80.00 chs.

NORTH BOUNDARY OF T.2 N.R.8 W.

Chains.	
	S.89°50'E.bet.secs.3 and 34
	Descending gradually over mountainous land through dense pine timber.
26.00	Descend abruptly.
29.00	Lake area about 2 acres 2 chs.S.of line.
40.00	Set a sandstone 16x12x5 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which A pine 12 ins.diam.bears N.54°W.17 lks.dist. marked ¼ S 34 B T A pine 9 ins.diam.bears S.60°E.14 lks.dist. marked ¼ S 3 B T
	Corner located 1.50 chs.N.of lake containing about 3 acres;ascend abruptly.
50.00	Descend abruptly.
61.00	SW.edge of lake containing about 10 acres being 18 chs. long N.and S. To determine distance across lake I offset as follows: South 3.00 chs.;S.89°50'E.6.00 chs.;N. 3.00 chs.
67.00	SE.edge of lake;ascend abruptly.
74.00	Top of abrupt ascent;ascend gradually.
80.00	Set a sandstone 15x10x6 ins.10 ins.in the ground for cor.to secs.2,3,34,and 35,marked with 2 notches E.and 4 notches on W.edge;from which A pine 9 ins.diam.bears N.80°W.12 lks.dist. marked T 3 N R 8 W S 34 B T A pine 8 ins.diam.bears N.62°E.17 lks.dist. marked T 3 N R 8 W S 35 B T A pine 8 ins.diam.bears S.80°E.40 lks.dist. marked T 2 N R 8 W S 2 B T A pine 7 ins.diam.bears S.73°W.27 lks.dist. marked T 2 N R 8 W S 3 B T
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land,heavily timbered 80.00 chs.

NORTH BOUNDARY OF T.2 N R.8 W.

Chains. Oct..26,1903.

October 27,1903.

S.89°50'E.bet.secs.2 and 35

Ascending over mountainous land;through dense pine timber.

32.00 Ascend abruptly over large boulders and slide rock. Leave timber.

40.00 Set a sandstone 24x18x10 ins.18 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

45.00 Top of knoll;descend.

53.00 Enter dense pine timber.

78.00 Begin abrupt descent.

80.00 Set a sandstone 15x8x8 ins.10 ins.in the ground for cor. of secs.1,2,35,and 36,marked with 1 notch on E.and 5 notches on W.edges;from which

A pine 11 ins.diam.bears N.26°W.33 lks.dist. marked T 3 N R 8 W S 35 B T

A pine 12 ins.diam.bears N.19°E.14 lks.dist. marked T 3 N R 8 W S 36 B T

A pine 8 ins.diam.bears S.37°E.27 lks.dist. marked T 2 N R 8 W S 1 B T

A pine 9 ins.diam.bears S.4°W.15 lks.dist. marked T 2 N R 8 W S 2 B T

Land mountainous.

Soil rocky;4th rate.

Timber pine.

Mountainous land 80.00 chs.

S.89°50'E.bet.secs.1 and 36

Descending abruptly through pine timber,over mountainous land.

NORTH BOUNDARY OF T.2 N. R.8 W.

Chains	
4.00	Descend gradually.
29.00	Begin abrupt descent.
40.00	Set a sandstone 15x8x6 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 12 ins.diam.bears N.28°E.23 lks.dist.
	marked ¼ S 36 B T
	A pine 8 ins.diam.bears S.41°W.14 lks.dist.
	marked ¼ S 1 B T.
67.00	Bottom of West Fork of Rock Creek 50 lks.wide drains SE. Ascend.
80.00	The corner Tps.2 and 3 N.Rs.7 and 8 W.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land 80.00 chs.
	The sky was overcast during the entire day;solar observations impossible.
	October 27,1904.

For general description see notes of subdivision of T.2 N.R.8 W.

BOUNDARIES OF T.2 N.R.8 W.

LATITUDES, DEPARTURES AND CLOSING ERRORS.

Line designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
N.bdy.T.2 N.R.8 W.	S.89°50'E.	479.28	.....	1.39	479.28	.....
E.bdy.T.2 N.R.8 W.	South	486.90	.....	486.90	.....	.....
S.bdy.T.2 N.R.8 W.	N.89°55'W.	479.90	.70	.....	.....	479.90
2d G.Mer.W.or W.						
Bdy.T 2 N.R8.W.	North	486.90	486.90	.....	.....	.....
Totals			487.60	488.29	479.89	479.90
				487.60		479.89
Error in lat.and dep.				.69	-	.01

Fred Johnson,
U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

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

For final affidavits see book "J" T.3 N R.8 W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

For final affidavits see book "J" T.3 N.R.8 W. ....., *Chainman.*

....., *Chainman.*

....., *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 affidavit see book "J" T.3 N.R.8 W.

.....

.....

.....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 19, 190 4.

The foregoing field notes of the survey of the South and North Boundaries of Township No.2 North, Range No.8 West of the Uintah Special Base and Meridian, Utah,

.....

executed by Fred Johnson under his contract No. 276, dated August 10,1903; ~~190~~ xxx, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward D. McCarthy

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.

"G"
BOOK A-311

FILED
SEP 30 1904

FIELD NOTES

OF THE SURVEY OF THE

SECOND GUIDE MERIDIAN WEST

OR

WEST BOUNDARY

OF

TOWNSHIP NO. 2 NORTH

RANGE NO. 8 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

Fred Johnson, *United States Deputy Surveyor,*

Under his Contract No. 276, *dated* August 10, *190*3.

Survey commenced October 22, *190*3

Survey completed October 24, *190*3

6—151

Sheets 6-06-90

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

C.W.Heinecke	Chainman
James E.Laughlin	Chainman
A.H.Rock	Chainman
Alf Johnson	Chainman
Delbert Bowers	Moundman
W.T.Muse	Axman
Freemen Bowers	Axman
Ralph Labrum	Flagman.

For preliminary affidavits see book "B" Tp.1 N.R.8 W.

6—151

BOOK A-311

INDEX DIAGRAM.

Township 2 North, *Range* 8 West

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

_____

_____

SECOND GUIDE MERIDIAN WEST THROUGH TP.2 NORTH

Survey commenced Oct.22,1903,and executed with a W.& L. E.Gurley lightmountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc,which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined,tested on the true meridian at Salt Lake City,found correct and was approved by the Surveyor General for Utah August 21,1903.

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

At the standard cor.of Tps.1 and 2 N.Rs.8 and 9 W.,heretofore described,latitude 40°32'N.;longitude 110°52'03"W. I set off 40°32'N.on the lat.arc 10°48'S.on the decl. arc and at 3 h.00 m.p.m.l.m.t.determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

At 11 h.24 m.p.m.l.m.t.I observe Polaris at upper culmination in accordance with instructions in the Manual, and mark a point in the meridian thus determined on the stone already set 5.00 chs.N.of my station,on which the meridian falls 0.3 ins.west of the mark determined by the solar.

Oct.22,1903.

Oct.23,1903,at 8 h.00 m.a.m.l.m.t.I set off 40°32'N.on the lat.arc;11°05'S.on the decl.arc;and mark a point in the meridian determined with the solar by a cross on the stone already set 5.00 chs.N.of my station;this mark falls 0.3 ins.west of the meridian established by the Polaris observation.

SECOND GUIDE MERIDIAN WEST THROUGH TP.2 NORTH.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'16" 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 true meridian at 8 h.30' a.m.is N.17°10'W.;the angle thus determined gives the mag.decl.17°10'E.

From the township corner above described I run

North bet.secs.31 and 36

Over mountainous land;descending along steep W.slope, through scrub aspen [illegible].

30.00 Draw 180 ft.deep;spring branch 4 lks.wide and 5 ins.dee , course S.20°W.;ascend.

33.00 Spur 60 ft.high,projects S.20°W.

38.00. Draw 70 ft.deep;spring branch 4 lks.wide 3 ins.deep, course S.20°W.;ascend.

Difference between measurements of 40.00 chs.by two set of chainmen is 12 lks.;position of middle point

By 1st set 40.06 chs.

By 2nd set 39.94 chs.,the mean of which is

40.00 Set a porphyry stone 18x7x4 ins.12 ins.in the ground fo ¼ sec.cor.,marked ¼ on W.face;from which

An aspen 5 ins.diam.bears N.17°E.26 lks.dist. marked ¼ S 31 B T

An aspen 5 ins.diam.bears S.57°W.21 lks.dist. marked ¼ S 36 B T

Corner located in small basin.

43.00 Leave aspen bears N.20°E.and S.20°W.

Begin steep ascent.

65.00 Spur 200 ft.high projects S.35°W.

Descend.

74.00 Head of draw 100 ft.deep,drains S.30°W.;

Ascend.

78.00 Enter aspen bears N.30°E.and S.30°W.

SECOND GUIDE MERIDIAN WEST THROUGH TP.2 NORTH

Chains.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 18 lks.;position of middle point

By 1st set 80.09 chs.

By 2nd set 79.91 chs.the mean of which is

80.00 Set a limestone 18x10x4 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

An aspen 5 ins.diam.bears N.64°E.7 lks.dist.

marked T 2 N R 8 W S 30 B T

An aspen 4 ins.diam.bears S.28°E.16 lks.dist.

marked T 2 N R 8 W S 31 B T

An aspen 5 ins.diam.bears S.52°W.19 lks.dist.

marked T 2 N R 9 W S 36 B T

An aspen 6 ins.diam.bears N.41°W.12 lks.dist.

marked T 2 N R 9 W S 25 B T

Land mountainous.

Soil gravelly and rocky;3rd and 4th rate.

Timber aspen.

Mountainous or heavily timbered land 80.00 chs.

Oct.23,1903,at this cor.I set off 11°10'S.on decl.arc; and at 11h 45m a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40°32'N.

North bet.secs.25 and 30

Over mountainous land.

7. 0 Over mountainous land.

7.00 Enter scattering pine timber bears N.20°W.and S.20°E.

13.00 Leave pines and enter scrub aspen and fallen timber.

30.00 Spur 180 ft.high projects S.70°W.;descend.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 22 lks.;position of middle point

By 1st.set 40.11 chs.

By 2nd set 39.89 chs.,the mean of which is

SECOND GUIDE MERIDIAN WEST THROUGH TP.2 NORTH.

Chains	
40.00	Set a limestone 15x7x5 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	An aspen 6 ins.diam.bears S.41°E.72 lks.dist.
	marked ¼ S 30 B T
	An aspen 5 ins.diam.bears S.79°W.71 lks.dist.
	marked ¼ S 25 B T
43.00	Draw 90 ft.deep,drains S.80°W.
	Ascend.
47.00	Spur 110 ft.high projects S.70°W.
	Descend along steep W.slope.
	Difference bet.measurements of 80.00 chs.by two sets of chainmen is 14 lks.;position of middle point
	By 1st set 80.07 chs.
	By 2nd set 79.93 chs.,the mean of which is
80.00	Set a sandstone 15x14x6 ins.10 ins.in the ground for cor.of secs.19,24,25,and 30,marked 2 notches on S.and 4 notches on N.edge;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.;from which
	An aspen 2 ins.diam.bears N.33°E.30 lks.dist.
	marked T 2 N R 8 W S 19 B T
	An aspen 3 ins.diam.bears S.70°E.12 lks.dist.
	marked T 2 N R 8 W S 30 B T
	An aspen 3 ins.diam.bears S.30°W.18 lks.dist.
	marked T 2 N R 9 W S 25 B T
	An aspen 4 ins.diam.bears N.74°W.17 lks.dist.
	marked T 2 N R 9 W S 24 B T
	Land mountainous.
	Soil rocky and gravelly;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.

North bet.secs.19 and 24

Over mountainous land;

Ascending through scrub aspen.

12.00

SECOND GUIDE MERIDIAN WEST THROUGH TP.2 NORTH.

Chains.	
10.00	Spur 210 ft.high projects S.70°W.
	Descend;leave aspen and enter dense pine timber bearing E.and W.
	Difference bet.measurements of 40.00 chs.by two sets of chainmen is 16 lks.;position of middle point
	By 1st set 40.08 chs.
	By 2nd set 39.92 chs.,the mean of which is
40.00	Set a limestone 15x10x5 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	An aspen 9 ins.diam.bears N.64°E.12 lks.dist. marked ¼ S 19 B T
	A pine 8 ins.diam.bears N.56°W.13 lks.dist. marked ¼ S 24 B T
60.00	Bottom of canon 400 ft.deep,
	Creek 15 lks.wide 10 ins.deep,drains S.W.
	Thence ascend abruptly over slide rock and through dense timber.
	Difference bet.measurements of 80.00 chs.by two sets of chainmen is 20.1lks.;position of middle point
	By 1st set 80.10 chs.
	By 2nd set 79.90 chs.,the mean of which is
80.00	The point for sec.cor.falls on a large rock in place,14 x14x12 ft.above ground,on which
	Cut a cross (X) at the corner point for secs.13,18,19, and 24 marked with 3 notches on N.and S.sides of cross from which
	A pine 7 ins.diam.bears N.29°E.40 lks.dist. marked T 2 N R 8 W S 18 B T
	A pine 16 ins.diam.bears S.20°E.46 lks.dist. marked T 2 N R 8 W S 19 B T
	A pine 17 ins.diam.bears S.64°W.80 lks.dist. marked T 2 N R 9 W S 24 B T
	An aspen 9 ins.diam.bears N.76°W.78 lks.dist. marked T 2 N R 9 W S 13 B T
	Land mountainous.

SECOND GUIDE MERIDIAN WEST THROUGH TP.2 NORTH.

Chains.

Soil rocky;4th rate.

Timber pine and aspen.

Mountainous and heavily timbered land,80.00 chs.

Oct.25,1903.

Oct.24,1903 at 8 h.a.m.l.m.t.I set off 40°34'W.on lat. arc;11°27'S.on decl.arc and determine a true meridian w 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 dense pine and aspen timber;[illegible].

25.00 Cliffs bearing E.and W.,80 ft.high.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 24 lks.;position of middle point

By 1st set 40.12 chs.

By 2nd set 39.88 chs.;the mean of which is

40.00 Set a porphyry stone 17x15x4 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which

A pine 16 ins.diam.bears S.4°E.130 lks.dist.

marked ¼ S 18 B T

A pine 8 ins.diam.bears S.31°W.155 lks.dist.

marked ¼ S 13 B T

42.00 Top of spur 300 ft.high projects S.W.;descend.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 10 lks.;position of middle point

By 1st set 80.05 chs.

By 2nd set 79.95 chs.,the mean of which is

80.00 Set a sandstone 18x7x6 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 14 ins.diam.bears N.60°E.38 lks.dist.

marked T 2 N R 8 W S 7 B T

A pine 5 ins.diam.bears S.23°E.80 lks.dist.

SECOND GUIDE MERIDIAN WEST THROUGH TP.2 NORTH.

Chains	
	marked T 2 N R 8 W S 18 B T
	A pine 18 ins.diam.bears S.41°W.64 lks.dist.
	marked T 2 N R 9 W S 13 B T
	A pine 6 ins.diam.bears N.53°W.22 lks.dist.
	marked T 2 N R 9 W S 12 B T
	Land mountainous.
	Soil gravelly and rocky;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.

North bet.secs.7 and 12

Descending through dense pine and over rocks.

10.00 Head of draw 80 ft.deep,drains S.60°W.

Ascend.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 15 lks.;position of middle point

By 1st set 40.07½ chs.

By 2nd set 39.92½ chs.,the mean of which is

40.00 Set a porphyry stone 24x10x6 ins.18 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which

A pine 11 ins.diam.bears S.38°E.119 lks.dist.

marked ¼ S 7 B T

A pine 9 ins.diam.bears N.2°W.62 lks.dist.

marked ¼ S 12 B T

On top of high spur 260 ft.high projects S.80°W.

Descend.

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

50.00 Descend abruptly over slide rock.

70.00 Ravine 160 ft.deep,drains S.80°W.

Enter dense pine timber bears E.and W.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 18 lks.;position of middle point

By 1st set 80.09 chs.

By 2nd set 79.91 chs.,the mean of which is

SECOND GUIDE MERIDIAN WEST THROUGH EP.2 NORTH

Chains.

80.00 Set a porphyry stone 19x9x5 ins.15 ins.in the ground for cor.of secs.1,6,7,and 12,marked with 5 notches on S and 1 notch on N.edge;from which

A pine 12 ins.diam.bears N.36°E.74 lks.dist. marked T 2 N R 8 W S 6 B T

A pine 16 ins.diam.bears S.54°E.36 lks.dist. marked T 2 N R 8 W S 7 B T

A pine 19 ins.diam.bears S.46°W.17 lks.dist. marked T 2 N R 9 W S.12 B T

A pine 8 ins.diam.bears N.40°W.67 lks.dist. marked T 2 N R 9 W S 1 B T

Land mountainous.

Soil rocky;4th rate.

Timber pine.

Mountainous land and heavily timbered 80.00 chs.

Oct.24,At this cor.I set off 11°32'S.on the decl.arc, and at 11h.44m a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40°36'N.

North bet.secs.1 and 6

Ascending through pine timber.~~and over limestone,~~

Over mountainous land.

8.00 Lake 50 lks.E.of line 7 chs.E.and W.,and 4 chs.N.and S. Difference bet.measurements of 40.00 chs.by two sets of chainmen is 13 lks.;position of middle point

By 1st set 40.06½ chs.

By 2nd set 39.93½ chs.,the mean of which is

40.00 Set a porphyry stone 16x10x8 ins.11 ins.in the ground, for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.

No bearing trees within limits,in opening in timber.

51.00 Ridge 300 ft.high bears S.70°W.and N.70°E.;

Descend.

66.00 Draw 140 ft.deep,drains S.60°W. Ascend.

SECOND GUIDE MERIDIAN WEST THROUGH TP.2 NORTH.

Chains.

Difference bet.measurements of 86.90 chs.by two sets of chainmen is 12 lks.;position of middle point

By 1st set 86.84 chs.

By 2d set 86.96 chs, the mean of which is 86.90

86.90 Set a sandstone 18x18x8 ins. 8 ins.in the ground for cor.of Tps.2 and 3 N.Rs.8 and 9 W.,marked

3 N on NE.

8 W on SE.

3 N on SW,and 9 W on NW.face, with 6 notches on each edge; and raise a mound of stone 2'ft.base 1½ ft.high S.of cor.No bearing trees within limits.

Land mountainous.

Soil rocky;with pine.

Timber pine.

Mountainous land and heavily timbered 80.00 chs.

October 24.1902.

GENERAL DESCRIPTION.

For general description see notes of subdivision of T.2 N.R.8 W.

Fred Johnson.

U.S.Deputy Surveyor.

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BOOK A-311

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Fred Johnson, 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 Second Guid. Meridian West through Tps1 and 2 North bet.Rs.8&9 W. of the Uintah Spe tal Base and Meridian, Utah, showing the respective capacities in which they acted:

A.H.Rock Chainman. C.W.Heinecke, *Chainman.*

Alf Johnson, Chainman. James E.Laughlin, *Chainman.*

Delbert Bowers, *Moundman.*

, *Moundman.*

W.T.Muse, *Axman.*

Freemen Bowers, *Axman.*

Ralph Labrum, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Fred Johnson, United States Deputy Surveyor, in surveying all those parts or portions of the the Second Guide Meridian West through Tps.1 and 2 North between Ranges 8 and 9 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.

James E Laughlin, C W. Heinecke, *Chainmen.*

Alf Johnson, A.H. Rock, *Chainmen.*

Delbert Bowers, *Moundman.*

, *Moundman.*

W T Muse, *Axman.*

Freemen Bowers, *Axman.*

Ralph Labrum, *Flagman.*

Subscribed and sworn to before me this 24th day of Oct 1903, 189

SEAL

Fred Johnson
U. S. Dep Surveyor

6—151

BOOK A-311

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Fred Johnson, 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 10th day of August,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 Second Guide Meridian West th through Tps.1 and 2 North between Ranges 8 and 9 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 in books "B" and "C" 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.

Fred Johnson
United States Deputy Surveyor.

Subscribed by said Fred Johnson, and sworn to before me this 16th day of July 1904

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City,Utah Nov.19, 1904 189

The foregoing field notes of the survey of the Second Guide Meridian West,or West Boundary of Township No. 2 North,Range No.8 West,of the Uintah Special Base and Meridian,Utah,

executed by Fred Johnson under his contract No. 276, dated August 10,1903; ~~XXX~~ , 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-311

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FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 2 NORTH

RANGE NO. 8 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

Fred Johnson, *United States Deputy Surveyor,*

Under his Contract No. 276, *dated* August 10, *1903.*

Survey commenced October 28, *1903.*

Survey completed November 17, *1903.*

6—151

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BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

Chas.Walter Heinecke	Chainman
A.H.Rock	Chainman.
Delbert Bowers	Moundman.
W.T.Muse	Axman.
Freemen Bowers	Axman.
Ralph Labrum	Flagman.

6—151

Volume
#
R0311

BOOK A-311

INDEX DIAGRAM.

Township 2 North, *Range* 8 West

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

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PRELIMINARY OATHS OF ASSISTANTS.

We, CHARLES WALTER HEINECKE and A.H.ROCK.
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; tha
we will report the true distances to all notable objects, and the true lengths of all lines that we assist i
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey o
SUBDIVISIONS OF TPS.2N.,3N., and 4 N.,R.8 W.,of the
UINTAH SPECIAL BASE AND MERIDIAN,UTAH.

Chas. Walter Heinecke, Chainman
A. H. Rock, Chainman

Subscribed and sworn to before me this 15th day of June 1904

SEAL

Fred Johnson
U.S. Dep. Surveyor

We, Delbert Bowers 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 o
Subs.of Tps.2,3,and 4 N.,R.8 W.,of Uintah Special Base and Meridian.
Utah.

Delbert Bowers, Moundman.
, Moundman.

Subscribed and sworn to before me this 13th day of June 1904

SEAL

Fred Johnson
U.S. Dep. Surveyor

We W.T.Muse and Freeman Bowers
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
Subs.Tps.2,3 and 4 N.,R.8 W.,of Uintah Special Base and Meridian,Utah

W. T. Muse, Axman.
Freemen Bowers, Axman.

Subscribed and sworn to before me this 15th day of June 1904

SEAL

Fred Johnson
U.S. Dep. Surveyor

I, Ralph Labrum, 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 Subs.Tps.2,3,and 4 N.,R.8 W.,of Uintah Special Base and Merid-
ian,Utah.

Ralph Labrum, Flagman.

Subscribed and sworn to before me this 15th day of June 1904

SEAL

Fred Johnson
U.S. Dep. Surveyor

* 14

SUBDIVISION OF T.2 N.R.8 W.

Survey commenced Oct.28,1903,and executed with a W.& L.E. Gurley ligh mountain transit with solar attachment,for a description of which see book "A" of this survey.

I examine the adjustments of the transit and correct the level and collination 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 the cor.of secs.1,2,35,and 36 on S.bdy.of Tp.,heretofore described in latitude 40°32'N.;longitude 110°46' W.,I set off 40°32'N.on the lat.arc;12°54'S.on the decl. arc and at 3 h.30 m.p.m.l.m.t.determine with the solar a meridian and mark a point thereof onoa stone firmly set in the ground 5 chs.N.of cor.

At 11 h.00 m.p.m.l.m.t.I observe Polaris at upper culminaiion in accordance with instructions in the Manual and mark a point on the meridian thus determined on the stone already set 5 chs. N.of cor.; the meridian falls 0.2 ins.west of the mark determined by the solar.

October 28,1903.

Oct.29,1903,at 8 h.00 m.a.m.l.m.t.I set off 40°32'N.on the lat.arc;13°10'S.on the decl.arc and mark a point on the meridian determined with solar by a cross on the stone already set 5 chs.N.of my station;this mark falls 0.3 ins.west of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridian respectively about 0'11"E.and 0' 16" W.of the meridian establisjed by the Polaris observations;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h.30 m.a.

SUBDIVISION OF T.2 N.R.8 W.

Chains. l.m.t.is N.17°00'W.;the angle thus determined gives the mag.decl.17°0'E.

From the cor.of secs.1,2,35,and 36 on S.bdy.of Tp.heretofore described I run

N.0°01'W.bet.secs.35 and 36

Across rocky slope to W.

24.28 Top of small divide 80 ft.above cor.bears E.and W.

Leave slide rock.

Descend gradually across flat.

40.00 Set a slate rock 30x10x5 ins.22 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of corner.Pits impracticable.

Corner situated on flat and about 6 chs.E.of dense pine timber,and 7 chs.W.of top of abrupt descent.

51.50 South edge of gulch drains SW.

Descend through dense pines.

51.75 Stump of large pine tree cut from line.

Descend abruptly.

64.00 Gulch 90 ft.deep,drains S.85°W.;ascend.

80.00 Set a slate rock 18x10x5 ins.12 ins.in the ground for cor.of secs.25,26,35,and 36,marked with 1 notch on S.and 1 notch on E edge;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

A pine 6 ins.diam.bears S.48°30'E.55 lks.dist.

marked T 2 N R 8 W S 36 B T

A pine 10 ins.diam.bears N.74°W.43 lks.dist.

marked T 2 N R 8 W S 26 B T

No other bearing trees within limits.

Land mountainous.

Soil gravel and rocky 3d and 4th rate.

Timber pine.

Mountainous or heavily timbered land 80.00 chs.

Oct.28,1903.

October 29,1903,at 8h.10m.a.m.l.m.t.I set off 40°32'N.

SUBDIVISION OF T.2 N.R.8 W.

Chains	
	lat.arc;13°09'S.on decl.arc,and determine a true meridian with the solar at the cor.of secs.25,26,35,and 36; Thence I run
	S.89°55'E.on a random line bet.secs.25 and 36
40.00	Set temp.$\frac{1}{2}$ sec.cor.
79.89	Intersect E.bdy.of Tp.2.35 chs.N.of the witness cor.for cor.of secs.25,30,31,and 36,which is a sandstone 18x8x8 ins.above ground firmly set and marked and witnessed as described by Deputy Francis M.Lyman Jr.,under his contract No.274;said witness corner being 2.30 chs.S.of true point for corner. Thence I run
	N.89°53'W.on a true line bet.secs.25 and 36
	Over slide rock;descending.
26.00	Draw 200 ft.deep,drains NE.
	Ascend through scattering pines.
39.94½	Set a porphyry stone 20x8x5 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
57.55	Head of small draw drains NE.
	Ascend through scattering pine timber.
64.00	Brow of mesa;descend gradually.
79.89	The cor.of secs.25,26,35,and 36.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land 79.89 chs.

	N.0°01'W.bet.secs.25 and 26
	Ascending through scattering pine timber.
8.00	Top of mesa;descend gently.
25.00	Bottom of basin,drains W.:ascend gradually.
39.15	Top of small ridge bears E.and W.
40.00	Set a porphyry stone 20x9x5 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;raise a mound of stone 2

Chains	
	ft.base 1½ ft.high W.of cor.Pits impracticable.
	Descend.
49.00	Small basin drains E.
	Ascend.
68.70	Ridge bears N.80°W.and S.80°E.
	Descend.
80.00	Set a quartzite stone 18x9x7 ins.12 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 22 ins.diam.bears S.40°E.20 lks.dist.
	marked T 2 N R 8 W S 25 B T
	A pine 18 ins.diam.bears S.5°W.15 lks.dist.
	marked T 2 N R 8 W S 26 B T
	A pine 18 ins.diam.bears N.25°W.59 lks.dist.
	marked T 2 N R 8 W S 23 B T
	No other bearing trees within limits;raise a mound of stone 3 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil sandy and gravelly;3d and 4th rate.
	Timber pine.
	Mountainous or heavily timbered land 80.00 chs.
	Oct.29,1903,at this cor.I set off 13°14'S.on decl.arc, and at 11 h.44 m.a.m.l.m.t.observe the sun on the meridian the resulting lat.is 40.33'N.

S.89°53'E.on a random line bet.secs.24 and 25

40.00	Set temp.¼ sec.cor.
80.02	Intersect E.bdy.of Tp.8 lks.S.of cor.of secs.19,24,25, and 30,which is a quartzite stone 12x10x6 ins.above ground,firmly set and marked and witnessed as described by Deputy Lyman under his contract No.274;thence I run

N.89°56'W.on a true line bet.secs.24 and 25

Descending through scattering pine timber.

20.00	Gulch 180 ft.deep,drains N.40°E.:ascend.

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
40.01	Set a porphyry stone 19x7x7 ins.14 ins.in the ground fo ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
65.00	Leave pine timber bears N.and S.
75.80	Bottom of cliffs 100 ft.high bear N.55°W.and S.55°E.
76.20	Bottom of cliffs 50 ft.high bear N.55°W.and S.55°E.
78.10	Top of little ridge bears N.50°W.and S.55°E.
	Descend to
80.02	The cor.of secs.23,24,25,and 26.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land=80.02 chs. Arable land 80.02 chs.
	Oct.29,1903.
	Oct.30,1903,at 9 h.00 m.a.m.l.m.t.I set off 40°33' on the lat.arc;13°32'S.on the decl.arc,and determine a true meridian with the solar at the cor.of secs.23,24, 25 and 26.thence I run
	N.0°01'W.bet.secs.23 and 24
	Descend over slide rock.
6.00	Bottom of ravine 190 ft.deep,drains S.80°E.
	Ascend.
19.25	Top of ridge 250 ft.high bears N.85°W.and S.85°E.
	Descend gradually.
30.15	Edge of very abrupt descent. Set a flag.
	Cliffs 300 ft.high on both sides,bear E.and W.
	Descend over slide rock.
40.00	Set a sandstone 15x6x5 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
46.50	Enter spruce and pine timber bears N.40°W,and S.40°E.
50.00	Enter dense pine timber;begin steep descent.
69.00	Descend gradually
78.20	

SUBDIVISION OF T.2 N.R.8 W.

Chains
78.10 South Fork of Rock Creek 20 lks.wide 26 ins.deep,course S.75°E.;900 ft.below flag left on cliffs.

80.00 Set a sandstone 20x12x8 ins.15 ins.in the ground for cor.of secs.13,14,23,and 24,marked with 3 notches on S. and 1 notch on E.edge;from which

A pine 18 ins.diam.bears N.56°E.42 lks.dist.
marked T 2 N R 8 W S 13 B T

A pine 24 ins.diam.bears S.39°E.55 lks.dist.
marked T 2 N R 8 W S 24 B T

A pine 14 ins.diam.bears S.72°W.53 lks.dist.
marked T 2 N R 8 W S 23 B T

A pine 20 ins.diam.bears N.19°W.58 lks.dist.
marked T 2 N R 8 W S 14 B T

Land mountainous.

Soil rocky;4th rate.

Timber spruce and pine.

Mountainous land, [illegible] 80.00 chs. [illegible] chs.

Oct.30,1903,at the noon hour the sky was overcast,observations for lat.impossible.

S.89°56'E.on a random line bet.secs.13 and 24

40.00 Set temp.¼ sec.cor.

79.91 Intersect E.bdy.of Tp.5 lks.N.of the cor.of secs.13,18, 19,and 24,which is a quartzite stone 12x10x6 ins.above ground,firmly set and marked and witnessed as described by Deputy Lyman under his contract No.274;thence I run

N.89°56'W.on a true line bet.secs.13 and 24

Ascending through pine timber;over mountainous land.

20.00 Ridge 180 ft.high bears N.35°W.and S.35°E.

Descend.

35.00 Begin gradual descent.

39.95½ Set a sandstone 16x12x7 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

A pine 10 ins.diam.bears S.46°E.23 lks.dist.

SUBDIVISION OF T.2 N.R.8 W.

Chains	
	marked ¼ S 24 B T
	A pine 12 ins.diam.bears N.6°30'W.20 lks.dist.
	marked ¼ S 13 B T
41.35	Small stream 3 lks.wide,4 ins.deep,course S.
	Ascend abruptly.
51.00	Ridge 180 ft.high bears N.and S.
	Descend abruptly.
58.30	Small stream 3 lks.wide,4 ins.deep,course S.5°E.;ascend.
60.00	Spur 50 ft.high projects S.15°E.
	Descend through fallen timber;also live timber and over broken ground to
79.91	The cor.of secs.13,14,23.and 24.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous,or heavily timbered land 79.91 chs.

N.0°01'W.bet.secs.13 and 14

	Ascending over large boulders and through pine timber.
30.00	Leave dense pine timber bears N.40°W.and S.40°E.;thence through scattering pine timber.
40.00	Set a sandstone 18x12 x10 ins.12 ins.in the ground for ¼ sec.cor..marked ¼ on W.face;from which
	A balsam 12 ins.diam.bears N.83°E.22 lks.dist.
	marked ¼ S 13 B T
	A balsam 10 ins.diam.bears N.60°W.25 lks.dist.
	marked ¼ S 14 B T
	Ascend gradually.
52.00	Steep ascent over slide rock.
80.00	Set a sandstone 18x16x10 ins.12 ins.in the ground for cor.of secs.11,12,13,and 14,marked 4 notches on S.and 1 notch on E.edge;from which
	A pine 16 ins.diam.bears N.84°E.165 lks.dist.
	marked T 2 N R 8 W S 12 B T
	A pine 14 ins.diam.bears S.41°30'E.205 lks.dist.

SUBDIVISION OF T 2 N R 8 W

Chains	
	marked T 2 N R 8 W S 13 B T
	A pine 18 ins.diam.bears S.5°W.180 lks.dist.
	marked T 2 N R 8 W S 14 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 mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous or heavily timbered land 80.00 chs.
	October 30,1903.

	October 31,1903.
	S.89°54'E.on a random line bet.secs.12 and 13
40.00	Set temp.¼ sec.cor.
80.00	Intersect E.bdy.of Tp.10 lks.S.of cor of secs.7,12,13, and 18,which is a quartzite stone 14x10x6 ins.above ground firmly set and marked and witnessed as described by Deputy Lyman under his contract No.274;thence I run
	N.89°58'W.on a true line bet.sec.12 and 13
	Descending over slide rock.
10.00	Ascend abruptly alongside of ridge.
37.00	Cliffs 50 ft.high bear N.70°W.and S.70°E.
40.00	Set a sandstone 14x10x7 ins.9 ins.in the ground for ¼ sec.cor. marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
	Begin slight ascent over rocks.
44.25	Top of ridge bears N.80°W.and S.80°E.
	Descend over rocks.
50.00	Enter pine timber bears N.W.and SE.
80.00	The cor.of secs.11,12,13,and 14.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land 80.00 chs.

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
	Oct.31,1903,at 10 h.0 m.a.m.l.m.t.I set off 40°35'N.on the lat.arc;13°52'S.on the decl.arc,and determine a true meridian with the solar at the cor.of secs.11,12,13,and 14;thence I run
	N.0°01'W.bet.secs.11 and 12
	Ascending over slide rock.
8.60	Top of ascent 1100 ft.above West Fork of Rock Creek, bears N.80°W.and S.80°E.
	Thence across rocky flat.
40.00	Point for $\frac{1}{4}$ sec.cor.falls on flat rock in place,8 ft. N.and S.,15 ft.E.and W.;upon which I cut a cross (X) at the corner point for $\frac{1}{4}$ sec.cor.,ma marked $\frac{1}{4}$ on W.of cross,and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
48.75	Brow of ridge bears W.and N.70°E.
	Descend abruptly over rocks,a succession of cliffs.
69.00	Bottom of gulch 600 ft.deep,drains NE.
72.00	Small lake 2 chs.long $1\frac{1}{2}$ chs.wide.
	Thence ascend gradually among large boulders.
80.00	Set a sandstone 16x10x8 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 pine 24 ins.diam.bears N.88°E.6 lks.dist. marked T 2 N R 8 W S S 1 B T
	A pine 13 ins.diam.bears S.40°W.57 lks.dist. marked T 2 N R 8 W S 11 B T
	No other bearing trees within limits;raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land 80.00 chs.
	Oct.31,1903,at this corner I set off 13°54'S.on decl.arc; and,at 11h.44m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40°36'N.

SUBDIVISION OF T.2 N.R.8 W.

Chains	
	S.89°58'E.on a random line bet.secs.1 and 12.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.01	Intersect E.bdy.of Tp.7 lks.N.of cor.of secs.1,6,7,and 12,which is a sandstone 12x12x9 ins.above ground firmly set and marked and witnessed as described by Deputy Lyman under his contract No.274;thence I run
	N.89°55'W.on a true line bet.secs.1 and 12
	Ascending through scattering pine timber over slide rock.
40.00½	Set a sandstone 18x10x8 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	A pine 12 ins.diam.bears N.16°E.20 lks.dist. marked $\frac{1}{4}$ S 1.B T
	A pine 13 ins.diam.bears S.35°E.11 lks.dist. marked $\frac{1}{4}$ S 12 B T
	Thence across boulders and through dense pine timber.
65.50	Leave pine timber bears N.40°W.and S.40°E. Ascend.
70.00	Small lake, bears N. 5.00 chs.
75.40	Enter pine timber bears N.and S.
80.01	The cor.of secs.1,2,11,and 12.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land or land heavily timbered 80.01 chs.

	N.0°01'W.on a random line bet.secs.1 and 2
40.00	Set temp.$\frac{1}{4}$ sec.cor.
86.64	Intersect N.bdy.of Tp.8 lks.W.of cor.of secs.1,2,35, and 36 heretofore described;thence I run
	S.0°02'E.on a true line bet.secs.1 and 2
	Over mountainous land through dense pine timber;descending.
13.00	Begin abrupt descent.
27.00	Creek 10 lks.wide course easterly;ascend.

SUBDIVISION OF T.2 N.R.8 W.S

Chains.	
40.00	Leave timber;ascend abruptly over broken ledges and slide rock.
46.64	Set a sandstone 18x10x8 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
70.00	Small draw, bears N. about 6 chs.
74.00	Point of rocky spur projects E.
	Descend abruptly.
81.00	Descend gradually;enter scattering pine timber bears NE.and SW.
86.64	The cor.of secs.1,2,11,and 12.
	Land mountainous.
	Soil rocky 4th rate.
	Timber pine.
	Mountainous land 86.64 chs.
	Oct.31,1903.

November 1,1903,at 3 h.0 m.p.m.l.m.t.I set off 40°32' N.on the lat.arc;14°14'S.on decl.arc,and determine a true 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 rolling ground over W.slope through heavy pinertimber.

37.00	Gulch drains S.70°W.190 ft.deep.
	Ascend;leave timber.
40.00.	Set a porphyry stone 18x8x4 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.
	Pits impracticable.
47.00	Small ridge 90 ft.high bears S.60°W.and N.60°E.
	Descend.
54.50	Gulch 120 ft.deep,drains S.65°W.;ascend.
67.00	Top of small cliffs 60 ft.high bear S.65°W.and N.65°E.
	Spur projects S.70°E.;descend.

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
73.60	Gulch 60 ft.deep,drains SE. Ascend.
80.00	Set a porphyry stone 15x10x10 ins.10 ins.in the ground for cor.of secs.26,27,34,and 35,marked with 1 notch on S.and 2 notches on E.edge;and raise a mound of stone 2 t.base 1½ ft.high W.of cor.
	Corner on top of small bench on NE.side of gulch.
	Land mountainous.
	Soil loam,gravelly and rocky;3d and 4th rate.
	Timber pine.
	Mountainous or heavily timbered land 80.00 chs.
	November 1,1903.

November 2,1903,at 8 h.30 m.a.m.l.m.t.I set off 40°32' on lat.arc;14°28'S.on decl.arc,and determine a true meridian with the solar at the cor.of secs.26,27,34,and 35;thence I run

S.89°55'E.on a random line bet.secs.26 and 35

40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line 26 lks.S.of the cor.of secs.25,26 35 and 36;thence I run
	S.89°54'W.on a true line bet.secs.26 and 35
	Through pine timber,
10.64	Edge of bluff bears N.and S.
	Descend.
14.00	Bottom of gulch 100 ft.deep,course S.10°E.
	Thence across flat.
34.50	Bluff 90 ft.high bears N.15°W.and S.15°E.;descend.
39.00	Small bench at foot of bluff;leave pines.
40.03	Set a porphyry stone 30x10x7 ins.22 ins.in the ground for ¼ sec.cor.,marked ¼ on N,face and raise a mound of stone 2 ft.base 1½ ft.high E.of cor.
	Pits impracticable.
43.00	Draw 80 ft.deep,drains S.10°E.
	Ascend over rocks.
52.00	Top of steep ascent.

SUBDIVISION OF T.2 N.R.8 W.

Chains.

Ascend gradually.

68.00 Begin ascending along S.slope.

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

Land mountainous.

Soil loam and rocky;3d and 4th rate.

Timber pines.

Mountainous land or heavily timbered 80.06 chs.

N.0°02'W.bet.secs.26 and 27

Ascending through shattering pine timber.

5.60 Top of steep ascent 100 ft.above cor.bears N.20°W.and S.20°E.;continue across rolling ground.

16.00 Dry lake bed on line 150 lks.diameter.

23.50 Ridge 60 ft.high bears E.and W.

Descend.

27.00 Gulch 50 ft.deep,drains S.70°E.

Ascend.

40.00 Set a porphyry stone 16x8x6 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.

Pits impracticable.

Corner on slope to S.

Ascend over rolling flat and through small bunches of pine timber.

78.00 Old prospect hole 8 ft.deep,evidently dug for gold ore.

80.00 Set a porphyry stone 18x10x8 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.edge;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

In head of small basin,drains SE.

Land mountainous.

Soil gravelly and rocky,3d and 4th rate.

Timber pine.

SUBDIVISION OF T.2 S.R.8 W.

Chains.	
	Mountainous land 80.00 chs.
	Nov.2,1903,at this cor.I set off 14°32'S.on decl.arc,and at 11 h.44 m.a.m.l.m.t.observe the sun on the meridian the resulting lat.is 40°33'N.
	N.89°54'E.on a random line bet.secs.23 and 26
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.06	Intersect N.and S.line 30 lks.N.of the cor.of secs.23, 24,25,and 26;thence I run
	N.89°53'W.on a true line bet.secs.23 and 26
	Ascending through pine timber.
3.90	Top of small cliffs 40 ft.high,bears NW.and SE.
	Thence over rolling flat and through small bunches of pine.timber.
38.10	Leave pine.timber.
40.03	Set porphyry stone 18x10x7 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
	In open flat.
45.00	Enter pine timber bears N.and S.
60.00	Beginning of descent into gulch.
77.00	Head of small gulch 40 ft.deep,drains S.
80.06	The cor.of secs.22,23,26and 27
	Land rolling.
	Soil sandy and rocky;2d and 4th rate.
	Timber pine.
	Mountainous,or heavily timbered land 80.06 chs.
	November 2,1903.
	November 3,1903.
	N.0°02'W.bet.secs.22 and 23
	Ascend over rolling land.

SUBDIVISION OF T.2 N.R.8 W.

Chains.

5.00 Rim of basin,drains SE.

12.00 Top of little divide 50 ft.above cor.;descend.

23.00 Draw 60 ft.deep,drains E.

Ascend long slope to the N.

40.00 Set a quartzite stone 20x12x8 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face,and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.

Pits impracticable.

On top of ascent 100 ft.above draw,and bearing N.80°W. and S.80°E.

Descend gradually.

62.00 Brow of ridge and cliffs standing at a perpendicular height of 300 ft;and thence over slide rock.

80.00 Set a limestone 18x10x7 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.edge;and raise a mound of stone 2 ft. base 1½ ft.high W.of cor.Pits impracticable.

Land mountainous.

Soil gravelly and rocky 3d and 4th rate.

Timber pine.

Mountainous land 80.00 chs.

Nov. 3,1903,at 10 h.0 m.a.m.l.m.t.I set off 40°34'N.on lat.arc;14°50'S.on decl.arc and determine a true meridian with the solar at the cor.of secs.14,15,22,and 23; Thence I run

S.89°53'E.on a random line bet.secs.14 and 23

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

80.07 Intersect N.and S.line 33 lks.S.of the cor.of secs.13, 14,23,and 24;thence I run

S.89°53'W.on a true line bet.secs.14 and 23

Descend through pine and over fallen timber and sandstone boulders.

2.65 Creek 15 lks.wide and 3 ft.deep,course S.75°E.

SUBDIVISION OF T 2 N R.8 W.

Chains	
	This creek is the South Fork of Rock Creek.
	Thence along side of north slope.
28.00	Leave timber bears N.and S.
	Over slide rock.
36.00	Enter timber bears NE.and SW.
40.03½	Set a limestone 16x12x6 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 26 ins.diam.bears N.30°E.45 lks.dist.
	marked ¼ S 14 B T
	A pine 10 ins.diam.bears S.45°E.200 lks.dist.
	marked ¼ S 23 B T
	Thence across slide rock and boulders to
80.07	The cor.of secs.14,15,22,and 23.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land, slide rock,or heavy timber 80.07 chs.
	Nov.3,1903,at the noon hour the sky was overcast,observation for lat.impossible.

N.0°02'W.bet.secs.14 and 15

	Descending abruptly over slide rock.
4.00	Enter dense pine timber bears E.and W.
10.60	Creek 15 lks.wide,30 ins.deep,course S.75°E.
	Ascend abruptly.
14.75	Ridge 100 ft.high bears N.80°W.and S.80°E.
	Thence over steep descent.
18.90	Creek 12 lks.wide 24 ins.deep,course E.,90 ft.below ridge;ascend gradually.
40.00	Set a sandstone 15x10x8 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 10 ins.diam.bears N.56°E.33 lks.dist.
	marked ¼ S 14 B T

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
	A pine 10 ins.diam.bears S.69°W.24 lks.dist. marked $\frac{1}{4}$ S 15 B T
40.40	Small creek 2 lks.wide 2 ins.deep,course S.30°E. Ascend.
44.10	Ridge 90 ft.high bears N.30°W.and S.30°E. Descend gradually.
67.00	Gulch 60 ft.deep,drains SE.
77.85	Ridge 70 ft.high bears NW.and SE.Descend gradually.
79.00	Creek 4 lks.wide 5 ins.deep,course S.25°E.;ascend.
80.00	Set a sandstone 15x18x6 ins.10 ins.in the ground for cor.of secs.10,11,14,and 15,marked with 4 notches on S. and 2 notches on E.edge;from which
	A pine 8 ins.diam.bears N.20°E.30 lks.dist. marked T 2 N R 8 W S 11 B T
	A pine 12 ins.diam.bears S.60°E.40 lks.dist. marked T 2 N R 8 W S 14 B T
	A pine 14 ins.diam.bears S.65°W.22 lks.dist. marked T 2 N R 8 W S 15 B T
	A pine 18 ins.diam.bears N.53°W.98 lks.dist. marked T 2 N R 8 W S 10 B T
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land heavily timbered 80.00 chs.

November 3,1903.

Nov.4,1903,at 8 h.0 m.a.m.l.m.t.I set off 40°35'N.on the lat.arc;15°06'S.on decl.arc;and determine a true meridian with the solar at the cor.of secs.10,11,14,and 15. Thence I run

	N.89°53'E.on a random line bet.secs.11 and 14
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.02	Intersect N.and S.line 9 lks.N.of the cor.of secs.11,12, 13 and 14;thence I run
	S.89°57'W.on a true line bet.secs.11 and 14

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
	Along south slope of hill;over large boulders and through scattering pine timber.
31.50	Steep descent to draw 90 ft.deep,drains S.Ascend.
40.01	Set a sandstone 18x16x7 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 18 ins.diam.bears N.28°E.110 lks.dist. marked ¼ S 11 B T
	A pine 20 ins.diam.bears S.34°W.40 lks.dist. marked ¼ S 14 B T
	Descend abruptly over slide rock and through scattering pine timber.
53.00	Gradual descent.
65.50	Small stream 2 lks.wide 3 ins.deep,course S.
	Thence over comparatively level land;through dense pine timber.
80.02	The cor.of secs.10,11,14,and 15.
	Land mountainous, and level.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land or heavily timbered land 80.02 chs.
	Nov.4,1903,at this cor.I set off 15°10'S.on decl.arc;and at 11 h.44 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40°35'N.

N.0°02'W.bet.secs.10 and 11

	Ascend gradually through dense pine timber and over sandstone boulders.
14.30	Steep ascent through scattering pines.
24.00	Abrupt ascent over large cliffs 500 ft.high.
31.90	Top of cliffs bear N.60°W.and S.60°E.
	Ascend gradually over boulders.
40.00	Set a sandstone 20x18x10 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 12 ins.diam.bears N.80°E.160 lks.dist. marked ¼ S 11 B T

SUBDIVISION OF T.2 N.R.8 W.

A pine 10 ins.diam.bears S.60°W.53 lks.dist. marked $\frac{1}{4}$ S 10 B T

Chains

Ascend gradually over boulders and through scattering pine timber.

48.00 Leave pine timber bears E.and W.

62.00 Thence across level top of ridge of rocks and boulders.

71.00 Edge of cliffs 250 ft.high bear NW.and SE. Descend.

80.00 Set a sandstone 24x9x8 ins.18 ins.in the ground for cor.of secs.2,3,10,and 11,marked with 5 notches on S. and 2 notches on E.edge;and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

Land mountainous.

Soil rocky;4th rate.

Timber pine.

Mountainous land 80.00 chs.

N.89°57'E.on a random line bet.secs.2 and 11

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

80.05 Intersect N.and S.line 24 lks.N.of cor.of secs.1,2,11, and 12;thence I run

N.89°53'W.on a true line bet.secs.2 and 11

Ascend over large boulders and through scattering pine timber.

12.00 Foot of cliffs 260 ft.high bear N.50°E.and S.50°W. Leave timber.

23.50 Top of cliffs;thence across top of rocky ridge.

36.00 Descend through scattering pine timber and over boulders

40.62½ Set a sandstone 20x11x9 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.

Pits impracticable.

Thence across rolling slide rock to

80.05 The cor.of secs.2,3,10,and 11.

Land mountainous.

Soil rocky;4th rate.

SUBDIVISION OF T.2 N.R.8 W.

Chains	
	Timber pine.
	Mountainous land 80.05 chs. Nov.4,1903.

Nov.5,1903,at 8 h.0 m.a.m.l.m.t.I set off 40°36'N.on lat.arc;15°24'S.on decl.arc,and determine a true meridian with the solar at the cor.of secs.2,3,10,and 11, Thence I run

N.0°02'W. on a random line bet.secs.2 and 3

40.00	Set temp.$\frac{1}{4}$ sec.cor.
86.60	Intersect N.bdy.of Tp.5 lks.W.of cor.of secs.2,3,34, and 35,heretofore described;thence I run

South on a true line bet.secs.2 and 3

Over mountainous land;through dense pine timber.

12.50	Descend abruptly.
37.00	Creek 10 lks.wide ;course easterly;ascend.
42.00	Ascend abruptly over slide rock;leave timber.
46.60	Set a sandstone 15x10x8 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
86.60	The cor.of secs.2,3,10,and 11.
	Land mountainous.
	Soil rocky 4th rate.
	Timber pine.
	Mountainous land 86.60 chs.

Nov.5,1903.

Nov.6,1903,at 8 h.10 m.a.m.l.m.t.I set off 40°32'N.on lat.arc;15°44'S.on decl.arc;and determine a true meridian with the solar at the cor.of secs.3,4,33,and 34,on S.bdy.of Tp.,heretofore described;thence I run

N.0°02'W.bet.secs.33 and 34

Descending through dense pine timber.

3.10	Draw 60 ft.below cor.drains E.
	Ascend.

Chains.	
11.00	Top of spur 150 ft.high projects S.80°E.;descend.
20.00	Bottom of gulch 140 ft.deep,drains S.70°E.;ascend.
36.10	Ridge 180 ft.high bears N.70°W.and S.70°E.
	Leave dense pine timber and scattering timber.
39.50	Descend abruptly.
40.00	Set a porphyry stone 15x12x8 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable. Corner about 30 lks.NE.of small cliff on steep descent to North
47.40	Ravine 180 ft.deep,course S.75°E.
	Ascend through pine and aspen timber.
72.10	Saddle between two ridges 350 ft.above ravine bears E.and W. connecting spurs one projecting S.10°W.,other S.25°E.
80.00	Set a limestone 20x6x6 ins.15 ins.in the ground for cor. of secs.27,28,33,and 34,marked with 1 notch on S.and 3 notches on E.edges;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil loam and rocky 2d and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.

S.89°55'E.on a random line bet.secs.27 and 34

40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.90	Intersect N.and S.line 2 lks.S.of the cor.of secs.26,27 34 and 35;thence I run

N.89°56'W.on a true line bet.secs.27 and 34

Descending along side of gulch.

9.70	Gulch 60 ft.below sec.cor.drains SE.;ascend over rocks.
19.75	Ridge 110 ft.high bears N.W.and SE.;descend.
26.00	Head of draw 80 ft.deep,drains S.10°E.
39.00	Ridge 100 ft.high bears N.and S.
39.95	Set a porphyry stone 18x7x6 ins.12 ins.in the ground for

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
	¼ sec.cor.,marked ¼ on N.face;raise a mound of stone.2 ft.base 1½ ft.high N.of cor.Pits impracticable.
	Enter head of draw drains S.85°W.and then turns S.
54.00	Gulch 180 ft.deep,drains S.;ascend.
72.00	Ridge 200 ft.high bears N.and S.25°E.
	Descend to
79.90	The cor.of secs.27,28,33,and 34.
	Land mountainous.
	Soil loam and rocky;2d and 4th rate.
	Timber pine.
	Mountainous land 79.90 chs.
	Nov 6,1903,at this cor.I set off 15°47'S.on decl.arc, and at 11 h.44.m.a.m.l.m.t.observe the sun on the meridian;the resulting lat.is 40°32'N.

N.0°02'W.bet.secs.27 and 28

	Ascending through scattering pine timber along E.side of small gulch.
13.00	Head of gulch drains S.5°W.
	Leave pine timber.
	Ascend through long draw,draining S.
	Pines along the line about 2 chs.to the right bearing N.and S.
34.00	Leave draw and enter pine timber bears.N.10°W.and S.10° E.
36.00	Leave pine timber bear E.and W.
40.00	Set a limestone 15x10x4 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Dry lake bed 1½ chs.W.of cor.
	Thence over rolling flat.
77.00	Small draw drains W.
80.00	Set limestone 20x12x7 ins.15 ins.in the ground for cor. of secs.21,22,27,and 28,marked with 2 notches on S.and

Chains.	
	3 notches on E.edge;and raise a mound of stone 2.ft.base 1½ ft.high W.of cor.Pits impracticable.
	In little basin drains SW.
	Land mountainous.
	Soil loam and gravelly and rocky 2d and 4th rate.
	Timber pine.
	Mountainous land 80.00 chs.

S.89°56'E.on a random line bet.secs.22 and 27

40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line 17 lks.S.of the cor.of secs.22,23 26,and 27;thence I run

S.89°57'W.on a true line bet.secs.22 and 27

	Over rolling ground and through scattering pine timber.
2.00	Ascend out of basin.
24.50	Sink hole 1 ch.E.and W.2 chs.N.and S.,10 ft.deep.
39.96	Set a limestone 18x12x4 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high.N.of cor.Pits impracticable.
	On brow of dry lake bed being about 7 chs.wide N.and S.
55.00	Leave lake bed;ascend.
79.92	The cor.of secs.21,22,27,and 28,
	Land rolling.
	Soil sandy and rocky;2d and 4th rate.
	Timber pine.
	Mountainous land 79.92 chs.

November 6,1903.

November 7,1903,

N.0°02'W.bet.secs.21 and 22

	Ascend gradually.
12.00	Top of raise 30 ft.high bears N.40°W.and S.40°E.
30.00	Top of ascent 90 ft.high bears E.and W.;descend.
34.00	Draw 80 ft.deep,drains E.and then NE.into West Fork of Rock Creek.
40.00	Set a limestone 30x8x4 ins.22 ins.in the ground for ¼

SUBDIVISION OF T.2 N.R.8 W.

Chains	
	sec.cor.,marked $\frac{1}{2}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
56.00	Top of ridge 140 ft.high bears N.70°W and S.70°E.
	Descend.
71.30	Edge of cliffs or break in semicircle of cliffs;
	Descend over slide rock.
	7 chs.W.of this point cliffs are 400 ft.high and 5 chs. E.cliffs are 300 ft.high.
80.00	Set a porphyry stone 20x9x7 ins.15 ins.in the ground for cor.of secs.15,16,21,and 22,marked 2 N on NE.
	2N on NE.
	8 W on SE.
	with 3 notches on S.and 3 notches on E.edge;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil loam and rocky;2d and 4th rate.
	Timber pine.
	Mountainous land 80.00 chs.

Nov.7,1903,at 10 h.15 m.a.m.l.m.t.I set off 40°34'N.on lat.arc;16°03'S.on decl.arc and determine a true meridian with the solar at the cor.of secs.15,16,21,and 22.

Thence I run

N.89°57'E.on a random line bet.secs.15 and 22

40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.11	Intersect N.and S.line 30 lks.N.of the cor.of secs.14, 15,22,and 23;thence I run

N.89°50'W.on a true line bet.sec .15 and 22

Across slide rock from cliffs on S.

40.05½	Set a sandstone 30x16x5 ins.22 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.

SUBDIVISION OF T.2 N.R.8 W.

Chains

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

Land mountainous.

Soil stony 4th rate.

No timber.

Mountainous land 80.11 chs.

Nov.7,1903,at the noon hour the sky is overcast,observation for lat.impossible.

N.0°02'W.bet.secs.15 and 16

Descending abruptly over slide rock.

5.60 Enter pine timber,dense,bears E.and W.

15.00 Creek 10 lks.wide 14 ins.deep,course S.85°E.400 ft.below top of cliffs.

Ascend gradually.

29.85 Steep ascent through sandstone boulders.

40.00 Set a sandstone 18x10x8 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which

A pine 8 ins.diam.bears S.48°E.27 lks.dist.
marked ¼ S 15 B T

A pine 18 ins.diam.bears S.80°30'W.37 lks.dist.
marked ¼ S 16 B T

46.00 Lake about 12 chs.W.of line;area about 4 acres.

Gradual ascent through dense pine timber and over sandstone boulders to

80.00 Set a sandstone 16x12x10 ins.11 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 pine 12 ins.diam.bears N.53°E.62 lks.dist.
marked T 2 N R 8 W S 10 B T

A pine 8 ins.diam.bears S.31°E.48 lks.dist.
marked T 2 N R 8 W S 15 B T

A pine 18 ins.diam.bears S.49°30'W.42 lks.dist.
marked T 2 N R 8 W S 16 B T

A pine 14 ins.diam.bears N.37°45'W.27 lks.dist.

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
	marked T 2 N R 8 W S 9 B T
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land heavily timbered 80.00 chs.
	November 7,1903.
	November 8,1903,at 8 h.a.m.l.m.t.I set off 40°35'N.on lat.arc16°20'S.on decl.arc and determine a true meridian with the solar at the cor.of secs.9,10,15,and 16,
	Thence I run
	S.89°50'E.on a random line bet.secs.10 and 15
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.08	Intersect N.and S.line 37 lks.S.of the cor.of secs.10,11 14,and 15;thence I run
	S.89°54'W.on a true line bet.secs.10 and 15
	Descend through pine timber.
1.50	Creek 3 lks.wide,12 ins.deep,course SE.
	Ascend.
20.00	Leave pine timber bears N.40°W.and S.40°E.
	Ascend over slide rock.
40.04	Point for $\frac{1}{4}$ sec.cor.falls on slide rock,cannot be set.
48.00	Cliffs 400 ft.high bear N.and S.
51.00	Top of cliffs,
	Set a sandstone 18x18x7 ins.12 ins.in the ground for witness cor.to the $\frac{1}{4}$ sec.cor.,marked WC$\frac{1}{4}$ on N.face,and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
	Thence continue over slide rock.
55.00	Enter dense timber bears N.30°E.and S.30°W.
	Descending gradually over fallen timber and boulders.
80.08	The cor.of secs.9,10,15,and 16.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.

SUBDIVISION OF T.2 N.R.8 W.

Chains

Mountainous land 80.08 chs.

Nov.8,1903,at this cor.I set off 16°24'S.on decl.arc; and at 11 h.44 m.a.m.l.m.t.observe the sun on the meridian the resulting lat.is 40°35'N.

N.0°02'W.bet.secs.9 and 10

Ascending through dense pine timber and over fallen timber and sandstone boulders.

6.50 Ridge 100 ft.above cor.,bears N.70°W.and S.70°E.

Descend abruptly.

12.25 Descend gradually.

14.00 Thence over comparatively level land.

23.75 Gulch 300 ft.below ridge drains S.75°E.;ascend.

40.00 Set a sandstone 18x16x10 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which

A pine 8 ins.diam.bears S.71°E.23 lks.dist. marked ¼ S 10 B.T

A pine 12 ins.diam.bears S.64°W.26 lks.dist. marked ¼ S 9 B T

Ascend.

58.00 Leave timber bears E.and W.

Ascend abruptly.

69.50 Top of abrupt ascent

Large cliffs 500 ft.high bear N.40°W,and S.40°E.

Thence across rocks to

80.00 Set a sandstone 19x7x6 ins.15 ins.in the ground for cor. of secs.3,4,9,and 10,marked with 5 notches on S.and 3 notches on E.edge;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.

Land mountainous.

Soil gravelly and rocky;3d and 4th rate.

SUBDIVISION OF T.2 N.R.8 W.

Chains	
	Timber pine.
	Mountainous or heavily timbered land 80.00 chs.
	N.89°54'E.on a random line bet.secs.3 and 10
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.88	Intersect N.and S.line 5 lks.N.of the cor.of secs.2,3, 10,and 11;thence I run
	S.89°56'W.on a true line bet.secs.3 and 10
	Ascending over slide rock on N.side of ridge.
32.00	Ridge 360 ft.above cor.,bears N.70°W.and S.70°E.
	Thence across top of ridge.
39.94	Set a sandstone 18x10x9 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor,Pits impracticable.
	Descend over rocks on S.slope to.
79.88	The cor.of secs.3,4,9,and 10.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 79.88 chs.
	November 8,1903.
	November 9,1903,at 8 h.a.m.l.m.t.I set off 40°36'N.on lat.arc;16°35'S.on decl.arc,and determine a true meridian with the solar at the cor.of secs.3,4,9,and 10;
	Thence I run
	N.0°02'W.on a random line bet.secs.3 and 4
40.00	Set temp.$\frac{1}{4}$ sec.cor.
86.50	Intersect N.bdy.of Tp.at the cor.of secs.3,4,33,and 34 heretofore described;thence I run
	S.0°02'E.on a true line bet.secs.3 and 4
	Over mountainous land;ascending along top of bench, through dense pine timber.

Chains

36.00 Descend along E.slope of spur projecting N.

46.50 Set a sandstone 15x10x10 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which

A pine 8 ins.diam.bears N.70°E.17 lks.dist. marked ½ S 3 B T

A pine 7 ins.diam.bears S.12°W.28 lks.dist. marked ¼ S 4 B T

Ascend.

70.00 Ridge bears NW.and SE.

Leave timber;thence over slide rock to

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

Land mountainous.

Soil rocky;4th rate.

Timber pine.

Mountainous land 86.50 chs.

November 9,1903.

Nov.10,1903,at 8 h.10 m.a.m.l.m.t.I set off 40°32'N.on lat.arc;16°53'S.on decl.arc;and determine a true meridian with the solar at the cor.of secs.4,5,32,and 33 on S.bdy.of Tp.,heretofore described;

Thence I run

N.0°03'W.bet.secs.32 and 33

Ascending through dense pine timber;

5.50 Ridge 100 ft.high bears E.and W.

Descend.

20.00 Gulch 90 ft.deep;drains S.60°E.;ascend.

37.00 Ridge 240 ft.high bears E.and W.

Descend.

0.00 Set a sandstone 18x10x4 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which

A pine 8 ins.diam.bears S.29°E.52 lks.dist. marked ½ S 33 B T

SUBDIVISION OF T.2 N.R.8 W.

Chains	
	A pine 16 ins.diam.bears S.80°W.20 lks.dist. marked ¼ S 32 B T
	Descend.
58.50	Saddle bears N.and S.;drainage both E.and W.;leave timber;ascend along side and near top of ridge.
76.00	Ridge 130 ft.above ¼ sec.cor.,bears N.5°W.and S.5°E.
80.00	Set a limestone 20x10x6 ins.15 ins.in the ground for cor.of secs.28,29,32,and 33,marked with 1 notch on S.and 4 notches on E.edges;and raise a mound of stone 2 ft. base 1½ ft.high W.of cor.Pits impracticable.
	About 2½ chs.W.of small gulch,drains SE.
	Land mountainous.
	Soil loam and gravel 2d and 3d rate.
	Timber pine.
	Mountainous land 80.00 chs.
	S.89°55'E.on a random line bet.secs.28 and 33
40.00	Set temp.¼ sec.cor.
79.91	Intersect N.and S.line 22 lks.S.of the cor.of secs.27,28 33 and 34;thence I run
	S.89°56'W.on a true line bet.secs.28 and 33
	Descend through scattering pine timber.
4.00	Gulch 80 ft.deep,drains S.25°W.
	Ascend over little spur.
11.00	Spur 40 ft.high projects S.
	Descend.
20.50	Gulch 60 ft.deep,drains S.5°E.;ascend over rocks.
31.00	Ridge 60 ft.high bears N.and S.;descend.
35.50	Gulch 70 ft.deep,drains S.and then SE.
	Ascend over rocks and through scattering pine timber.
39.95½	Set a sandstone 20x8x5 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.
	Ascend over rolling slope.

SUBDIVISION OF T.2 N.R.8 W.

Chains	
52.00	Ridge 90 ft.above $\frac{1}{4}$ sec.cor.bears N.20°W.and S.20°E.
	Descend.
77.40	Small draw drains S.25°E.;ascend.
79.91	The cor.of secs.28,29,32,and 33.
	Land mountainous.
	Soil loam and rocky;2d and 4th rate.
	Timber pine.
	Mountainous land 79.91 chs.
	Nov.10,1903,at this cor.I set off 16°58'S.on decl.arc;and at 11h 44m a.m.l.m.t.observe the sun on the meridian the resulting lat.is 40°32'N.

N.0°03'W.bet.secs.28 and 29

	Over rolling ground.
5.50	Draw 30 ft.deep,drains S.25°E.;ascend.
16.00	Top of round knoll 60 ft.high.
	Ascend along slope to the SW.
40.00	Set a quartzite stone 20x8x6 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	Ascend gradually.
57.00	Top of slope 90 ft.high bears S.80°W and N.80°E.;thence SE. Descend.
0.50	Bottom of saddle 40 ft.below ridge drainage both E.and W.;ascend.
80.00	Set a sandstone 18x10x6 ins.12 ins.in the ground for cor.of secs.20,21,28,and 29,marked with 2 notches on S. and 4 notches on E.edge;and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.high W.of cor.Cor.on bare slope to SE.
	Sheep herder's monument bears NW.about 12 chs.,on top of bare knoll.
	Monument on top of [illegible];
	This monument is stone 4 ft.base 5 ft.high but has no marks on it.
	Land mountainous.

Chains.	
	Soil sand and gravelly 2d and 3d rate.
	No timber.
	Mountainous land 23.00 chs.
	N.89°56'E.on a random line bet.secs.21 and 28
40.00	Set. temp.$\frac{1}{4}$ sec.cor.
80.06	Intersect N.and S.line 5 lks.S.of the cor.of secs.21,22, 27,and 28;thence I run
	S.89°54'W.on a true line bet.secs.21 and 28
	Ascending over mountainous land.
4.00	Edge of basin;small draw starts S.
	Descend.
24.00	Draw 80 ft.deep,drains S.10°E.
	Ascend through scattering timber.
40.03	Set a sandstone 18x8x8.ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$.on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.
	On brow of ridge bears N.and S.
42.00	Ridge 130 ft.above bottom of draw bears N.15°W.and S.15° E.;descend.
53.00	Draw 80 ft.deep,drains S.
	Ascend.
58.00	Spur 70 ft.high projects S.30°E.;descend.
65.00	Big draw 130 ft.deep,drains S.25°E.;ascend through small bunches of pine.
80.06	The cor.of secs.20,21,28,and 29,about 130 ft.above draw.
	Land mountainous.
	Soil gravelly loam and rocky;3d and 4th rate.
	Timber pine.
	Mountainous land 80.06 chs.
	Nov.10,1903.

SUBDIVISION OF T.2 N.R.8 W.

November 11,1903.

N.0°03'W.bet.secs.20 and 21

Over mountainous land along E.side of knoll.

22.00 Gulch 40 ft.deep,drains S.30°E.;ascend along W.side of ridge.

40.00 Set a sandstone 18x6x6 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.

On W.side of ridge and 2½ chs.E.from draw.

Ascending gradually over rocks and gravel on W.side of ridge bears N.and S.,on E.side of draw draining S.

80.00 Set a limestone 20x7x6 ins.15 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;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.

In bottom of saddle drainage N.and S.and 3½ chs.S.of edg of very deep gulch draining into West Fork of Rock Creek.

Land mountainous.

Soil gravelly and rocky;3d and 4th rate.

No timber.

Mountainous land 80.00 chs.

Nov.11,1903.At 9 H.50 m.a.m.l.m.t.I set off 40°34'N.on lat.arc;17°14'S.on decl.arc,and determine a true meridian with the solar at the cor.of secs.16,17,20,and 21; Thence I run

N.89°54'E.on a random line bet.secs.16 and 21

40.00 Set temp.¼ sec.cor.

80.18 Intersect N.and S.line 22 lks.N.of the cor.of secs.15, 16,21,and 22;thence I run

N.89°57'W.on a true line bet.secs.16 and 21

Over slide rock.

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
3.00	Cliffs 180 ft.high bear N.and S.
7.00	Cliffs 200 ft.high bear N.15°E.and S.15°W.
	This being a point of cliffs projecting N.10°E.
	Thence across slide rock.
35.40	Ascend over cliffs 170 ft.high bearing NW.and SE.
	These cliffs are perpendicular with slide rock starting
	from the base of cliffs and sloping N.
40.09	Set a porphyry stone 16x9x7 ins.11 ins.in the ground
	for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of
	stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
	Descend over rocks.
43.00	Gulch 60 ft.depp,drains N.30°W.;ascend.
58.00	Ridge 180 ft.high bears N.15°E.and S.15°W.;descend.
70.00	Draw 90 ft.deep,drains N.20°W. to edge of cliffs.
	Ascend to
80.18	The cor.of secs.16,17,20,and 21.
	Land mountainous.
	Soil rocky 4th rate.
	No timber.
	Mountainous land 80.18 chs.
	Nov.11,1903,at this corner I set off 17°14'S.on decl.arc;
	and,at 11h 44m a.m.l.m.t.observe the sun on the meridian
	The resulting lat.is 40°34'N.

N.0°03'W.bet.secs.16 and 17

3.50	Cliffs 50 ft.high bear E.and W.
	Descend over slide rock.
21.00	Bottom of rocky gulch 400 ft.below top of cliffs,drains
	E.into South Fork of Rock Creek.
	Ascend over rocks.
76.10	[illegible] cliffs 180 ft.high [illegible]

SUBDIVISION OF T.2 N.R.8 W.

Chains	
38.50	Top of ridge on N.side of gulch 390 ft.high bears N.60° and S.60°W.;cross rocks.
40.00	Set a sandstone 15x9x6 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	On a little level spot on highest point on line on the ridge.
	Descend gradually over rocks and boulders.
68.00	Steep descent over boulders;top edge bearing E.and W.
73.00	Descend more gradually.
80.00	Set a sandstone 18x12x12 ins.12 ins.in the ground for cor.of secs.8,9,16,and 17,marked with 4 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.

S.89°57'E.on a random line bet.secs.9 and 16

40.00	Set temp.¼ sec.cor.
80.13	Intersect N.and S.line 2 lks.N.of the cor.of secs.9,10, 15,and 16;thence I run

N.89°56'W.on a true line bet.secs.9 and 16

	Descending through timber and over slide rock sloping S.
22.00	Bottom of descent;ascend abruptly.
28.00	Ridge 130 ft.high bears N.5°E.and S.5°W.
	Leave timber.
	Descend over slide rock.
40.06½	Set a sandstone 20x12x6 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.

Chains.	
	Descend over rocks.
60.20	Steep descent over boulders;bear N.10°E.and S.10°W.
73.70	Bottom of abrupt descent. Ascend.
80.13	The cor.of secs.8,9,16,and 17.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land 80.13 chs.
	November 11,1903.

November 12,1903,at 9 h.00 m.a.m.l.m.t.I set off 40°35' on the lat.arc;17°28'S.on the decl.arc,and determine a true meridian with the solar at the cor.of secs.8,9, 16,and 17. Thence I run

N.0°03'W.bet.secs.8 and 9

	Descending over slide rock.
5.20	Enter dense pine timber bears E.and W.
	Bottom of descent.
	Draw 90 ft.below sec.cor.,drains N.60°W.;ascend.
15.30	Leave pine timber bears N.48°W.and S.48°E.
	Ascend abruptly over rocks.
23.55	Sandstone cliffs 50 ft.high and scattering pine timber on top of cliffs.
31.00	Leave pine timber bears N.W.and SE.
	Ascend over slide rock.
40.00	Set a sandstone 16x12x8 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Continue ascent over slide rock.
71.32	Ridge 700 ft.high above draw bears NW.and SE.
	Descend over slide rock
80.00	Set a sandstone 19x7x7 ins.15 ins.in the ground for cor. of secs.4,5,8,and 9,marked with 5 notches on S.and 4

Chains 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.

Mountainous land 80.00 chs.

November 12,1903,at the noonhhour the sky was overcast observation for lat.impossible.

S.89°56'E.on a random line bet.secs.4 and 9

40.00 Set temp.¼ sec.cor.

79.84 Intersect N.and S.line 9 lks.N.of the cor.of secs.3,4, 9and 10;thence I run

N.89°52'W.on a true line bet.secs.4 and 9

Cross rocky slope to S.

29.00 Small ridge 80 ft.high bears N.25°E.and S.25°W.

Descend.

39.92 Set a sandstone 15x7x5 ins.10 ins.in theground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.

Ascend over rocks.

65.00 Top of ridge 300 ft.high bears NW.and SE. Descend to

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

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 79.84 chs.

N.0°02'W.on a random line bet.secs.4and 5

40.00 Set temp.¼ sec.cor.

62.00 Set temp.meander cor.on shore of lake;then offset as follows: West 3.30 chs.;thence N.0°03'W.11.50 chs.; thence west 5.20 chs.;thence N.0°03'W.18.20 chs.;thence E.8.50 chs.;thence S.0°05'E.5.25 chs.

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
86.45	Intersect N.bdy.of Tp.at cor.of secs.4,5,32,and 33; heretofore described. Thence I run on offset line N.0°05'W.5.25 chs.;thence W.8.50 chs.;thence S. 0°03'E.18.20 chs.;thence E.5.20 chs.;thence S. 0°03'E.11.50 chs.;thence E.3.30 chs.to
24.45	S.edge oflake
	Set a sandstone 18x12x6 ins.12ins.in the ground for meander cor.for fracl.secs.4 and 5;marked MC on N.with 4 grooves on E.face;and raise a mound of stone 2 ft.base 1½ ft.high S.of cor.Pits impracticable.
30.00	Ascend abruptly over loose slide rock.
46.45	Set a sandstone 18x12x10 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound ofstone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
66.00	Top of ridge bears NW.and SE.
	Descend over slide rock.
86.45	The cor.of secs.4,5,8,and 9
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 86.45 chs. November 12,1903.

November 13,1903,at 10 h.0 m.a.m.l.m.t.I set off 40°32' N.on the lat.arc;17°45'S.on the decl.arc;and determine a true meridian with the solar at the cor.of secs.5,6, 31 and 32 on S.bdy.of Tp.,heretofore described;thence I run

N.0°04'W.bet.secs.31 and 32

Ascend through pine and aspen timber.

6.50	Ridge 100 ft.high bears E.and W.
	Descend gradually.

SUBDIVISION OF T.2 N.R.8 W.

Chains	
20.50	Begin steep descent bears E.and W.
30.60	Ravine 250 ft.deep,drains W.
	Ascend over rocks and timber on steep slope to SW.
40.00	Set a sandstone 16x8x6 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	On top of spur projects W.,90 ft.above ravine.
	Descend.
50.40	Ravine 180 ft.deep,drains S.60°W.
	Ascend over succession of small cliffs.
65. 00	Top of cliff spur 400 ft.high projects S.40°W.
	Descend over small cliffs and over slide rocks.
72.00	Bottom of descent.200 ft.deep;ascend.
78.50	Cliffs 200 ft.high bear N.40°W,and S.40°E.
80.00	Set a limestone 30x12x8 ins.22 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 $1\frac{1}{2}$ ft.high W.of cor.;from which

A pine 8 ins.diam.bears S.33°E.42 lks.dist.
marked T 2 N R 8 W S 32 B T

A pine 6 ins.diam.bears S.21°W.58 lks.dist.
marked T 2 N R 8 W S 31 B T

A balsam 9 ins.diam.bears N.10°W.34 lks.dist.
marked T 2 N R 8 W S 30 B T

No other bearing trees within limits;

Land mountainous.

Soil rocky;4th rate.

Timber pine and aspen.

Mountainous land 80.00 chs.

Nov.13,1903,at this corner I set off 17°47'S.on decl.arc and at 11h.44m.a.m. l.m.t. observe the sun on the meridian;the resulting lat.is 40°32'N.

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
	S.89°55'E.on a random line bet.secs.29 and 32
40.00	Set temp.¼ sec.cor..
80.15.	Intersect N.and S.line 19 lks.S.of the cor.of secs.28,29 32 and 33;thence I run
	S.89°57'W.on a true line bet.secs.29 and 32
	Ascending over mountainous land.
9.00	Ridge 60 ft.high bears N.25°W.,S.75°E.and [illegible]
	Thence across flat.
29.00	Brow of gulch 130 ft.deep,drains S.
	Descend.
40.07½	Set a limestone 15x9x5 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.
	Descend.
42.00	Gulch 130 ft.deep,drains S.;
	Ascend.
55.50	Ridge 140 ft.high bears N.10°E.and S.10°W.
	Descend gradually.
60.00	Enter pine timber bears N.20°E.and S.20°W.
80.15	The cor.of secs.29,30,31,and 32.
	Land mountainous.
	Soil gravelly and rocky;4th rate.
	Timber pine.
	Mountaincus or heavily timbered land 80.15 chs.

	N.89°55'W.on a random line bet.secs.30 and 31
40.00	Set temp.¼ sec.cor.
80.02	Intersect W.bdy.of Tp.7 lks.N.of the cor.of secs.25,30, 31,and 36,heretofore described;thence I run
	S.89°58'E.on a true line bet.secs.30 and 31
	Descending through aspen timber and over rocks.
5.00	Head of draw 40 ft.deep,drains S.40°W.;ascend.
11.30	Ridge 90 ft.high bears N.and S.40°W.;descend.
25.00	Draw 70 ft.deep,drains S.35°W.

SUBDIVISION OF T.2 N.R.8 W.

Chains	
	Leave timber;ascend over rocks.
40.02	Set limestone 15x7x4 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.
	On top of ridge 140 ft.high bears N.10°E.and S.10°W.
	Descend.
44.00	Draw 90 ft.deep,drains S.5°W.;ascend.
50.00	Spur 100 ft.high projects S.25°W.
	Descend;enter pine timber.
53.00	Draw 60 ft.deep,drains S.30°W.;ascend over rocks.
74.00	Leave pine timber bears N.10°E.and S.10°W.
79.50	Top of ascent and cliffs 170 ft.above draw.
80.02	The cor.of secs.29,30,31,and 32.
	Land mountainous.
	Soil gravelly and rocky;3d and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.02 chs.

November 13,1903.

Nov.14.1903,at 8 h.0 m.a.m.l.m.t.I set off 40°32'N.on lat.arc;17°59'S.on decl.arc;and determine a true meridian with the solar at the cor.of secs.29,30,31,and 32;

Thence I run

N.0°04'W.bet.secs.29 and 30

	Descending through pines along rocky W.slope.
15.60	Draw 140 ft.deep,drains S.80°W.
	Ascend over little raise and descend
28.00	Bottom of gulch 70 ft.below last gulch,drains SW.;ascend.
37.00	Ridge 160 ft.high bears SW.
	Descend.
39.00	Small draw 30 ft.deep,drains S.60°W. Ascend
40.00	Set a quartzite stone 15x12x8 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of ston~

Chains	
	stone 2 ft.base 1½ ft.high W.of cor.;on ridge bears NW. and SE;descend.
50.50	Gulch 120 ft.deep,drains S.50°E.
	Ascend along W.side of gulch drains S.
75.50	Leave timber and ascend.abruptly.
80.00	Set a limestone 24x8x8 ins.18 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;and raise a mound of stone 2 ft. base 1½ ft.high W.of cor.Pits impracticable.
	Corner about half way up S.slope of ridge.
	Land mountainous.
	Soil gravelly and rocky;3d and 4th rate.
	Timber line.
	Mountainous land 80.00 chs.

N.89°57'E.on a random line bet.secs.20 and 29.

40.00	Set temp.¼ sec.cor.
79.83	Intersect N.and S.line 20 lks.N.of the cor of secs.20, 21,28,and 29;thence I run

N.89°54'W.on a true line bet.secs.20 and 29

	Ascending.
6.50	Top of ascent 40 ft.above cor.bears N.and S.
	Descend gradually.
27.00	A pine hedge bears N.10°E.and S.10°W.,on top of steep slide rock;descend.
32.00	Bottom of slide rock.
33.50	Small dry pond.
39.91½	Set a limestone 14x8x6 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.
	On the south point of a small ridge or spur projecting S.10°W.
48.00	Small draw 40 ft.below ¼ sec.cor.drains S.15°W.
	Ascend.

SUBDIVISION OF T.2 N.R.8 W.

Chains

52.00 Spur 40 ft.high projects.S.20°W.;descend.

60.00 Ravine 110 ft.d ep,drains S.40°W.

Ascend over rocks across S.slope of ridge

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

Land mountainous.

Soil gravelly and rocky;3d and 4th rate.

Timber a few pines.

Mountainous land.79.83 chs.

Nov.14,1903,at the noon hour the sky was overcast,observation for lat.impossible.

N.89°58'W.on a random line bet.secs.19 and 30

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

79.88 Intersect W.bdy.of Tp.8 lks.S.of the cor.of secs.19,24, 25 and 30,heretofore described;thence I run

S.89°55'E.on a true line bet.secs.19 and 30

Ascending through aspen timber and over slide rock on gradual slope to N.

22.00 Leave timber bears N.60°E.and S.60°W.

Continue over slide rock under cliffs.

39.00 Bottom of cliffs.

39.88 Set a limestone 18x8x4 ins.12 ins.in the rocks for $\frac{1}{4}$ sec cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

On top of cliffs 200 ft.high and bearing N.85°E.and S. 85°W.

Thence across cliff points.

45.50 Cliffs south of line.

50.00 Bottom of saddle bears N.25°E.and S.25°W.,drainage SE. andNW.

Descend through pines.

55.50 Draw 60 ft.deep,drains S.20°W.;ascend.

68.50 Ridge 90 ft.high bears N.20°E.and S.20°W.;leave timber. Descend.

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
79.88	The cor.of secs.19,20,29,and 30.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine and aspen.
	Mountainous land 79.88 chs.

N.0°04'W.bet.secs.19 and 20

	Ascend abruptly over mountainous land.
4.90	Edge of steep ascent bears N.70°E.and S.70°W.
	Ascend through little patches of brush.
18.75	Last bunch of timber,pines.
	Ascend gradually across open flat.
29.22	Brow of flat ridge 250 ft.above sec.cor.bears N.85°E. and S.70°W.;also edge of cliffs 100 ft.high.
	Descend over slide rock at base of cliffs.
40.00	Set a sandstone 20x11x6 ins.15 ins.in the rocks for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Descend over slide rock
48.00	Enter pine timber bears E.and W.
56.00	Draw 450 ft.deep,drains.N.50°W.
	Ascend over rocks and through pine timber.
72.00	Leave pine timber,bears E.and W.;cross rocks.
80.00	Set a sandstone 18x12x8 ins.12 ins.in the ground for cor.of secs.17,18,19,and 20,marked with 3 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 gravelly and rocky;3d and 4th rate.
	Timber pine.
	Mountainous land 80.00 chs.

November 14,1903.

SUBDIVISION OF T.2 N.R.8 W.

Chains.

Nov.15,1903.

S.89°54'E.on a random line bet.secs.17 and 20

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

79.84 Intersect N.and S.line 5 lks.S.of the cor.of secs.16,17 20 and 21;thence I run

N.89°56'W.on a true line bet.secs.17 and 20

Ascend over rocks.

16.00 Ridge 190 ft.high bears N.10°W.and S.

Descend gradually.

23.00 Swale 30 ft.deep,drains N.

Ascend gradually.

30.00 Rocky ridge 60 ft.high bears N.10°W.and S.10°E.

Descend.

39.92 Set a limestone 20x12x8 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

Descend over slide rock.

41.50 Cliffs 150 ft.high bears N.15°E.and S.15°W.

Descend over slide rock at bottom of cliffs.

— 79.84 The cor.of secs.17,18,19,and 20.

Being about 300 ft.below top of cliffs.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 79.84 chs.

Nov.15,1903,at 10 h.o m.a.m.l.m.t.I set off 40°34'N.on 1st.arc;18°17'S.on decl.arc,and determine a true meridian with the solar at the cor.of secs.17,18,19,and 20; Thence I run

N.89°55'W.on a random line bet.secs.18 and 19

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

79.84 Intersect W.bdy.of Tp.4 lks.N.of the cor.of secs.13,18,

Chains.	
	19,and 24 heretofore described;thence I run
	S.89°57'E.on a true line bet.secs.18 and 19
	Descend through dense pine timber.
34.20	Creek 290 ft.below Tp.corner,12 lks.wide,14 ins.deep, course S.70°W.
	Leave timber and ascend over rocks.
39.84	Set a limestone 15x9x8 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.
	In gulch from SE.drains into main canon.
	Ascend over rocks.
79.84	The cor.of secs.17,18,19,and 20.
	Land mountainous.
	Soil rocky 4th rate.
	Timber pine and aspen.
	Mountainous land 79.84 chs.
	Nov.15,1903,at this cor.I set off 18°19'S.on decl.arc and at 11 h.45 m.a.m.l.m.t.observe the sun on the meridian the resulting lat.is 40°34'N.

	N.0°04'W.bet.secs.17 and 18
	Over rocky mountainous land.
7.00	Enter pine timber bears E.and W.
29.00	Begin steep descent.
30.00	Draw 180 ft.below sec.cor.drains W.
32.15	Creek 10 lks.wide 8 ins.deep,course S.42°W.
	Ascend over rocks.
40.00	Set a limestone 15x11x10 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	Ascend along side of slope to SE.
66.00	Ridge 240 ft.high bears S.30°W.and N.30°E.
	Descend through dense pine timber.
80.00	Set a sandstone 16x12x8 ins.11 ins.in the ground for cor.

SUBDIVISION OF T.2 N.R.8 W.

Chains

of secs.7,8,17,and 18,marked with 4 notches on S.and 5 notches on E.edges;from which

A pine 16 ins.diam.bears N.53°E.45 lks.dist. marked T 2 N R 8 W S 8 B T.

A pine 20 ins.diam.bears S.40°E.36 lks.dist. marked T 2 N R 8 W S 17 B T

A pine 6 ins.diam.bears S.72°30'W.53 lks.dist. marked T 2 N R 8 W S 18 B T

A pine 24 ins.diam.bears N.22°W.92 lks.dist. marked T 2 N R 8 W S 7 B T

Land mountainous.

Soil rocky 4th rate.

Timber pine.

Mountainous land 80.00 chs.

November 15,1903.

Nov.16,1903,at 8 h.a.m.l.m.t.I set off 40°35'N.on lat. arc;18°29'S.on decl.arc,and determine a true meridian with the solar at the cor.of secs.7,8,17,and 18;thence I run

S.89°56'E.on a random line bet.secs.8 and 17

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

79.91 Intersect N.and S.line 24 lks.S.of the cor.of secs.8,9, 16,and 17;thence I run

S.89°54'W.on a true line bet.secs.8 and 17

Descend abruptly over slide rock.

5.15 Enter dense pine timber.

Descend gradually.

37.20 Begin abrupt descent.

39.50 Bottom of abrupt descent.

39.95½ Set a sandstone 15x8x6 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which

A pine 12 ins.diam.bears N.16°E.49 lks.dist. marked $\frac{1}{4}$ S 8 B T

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
	A pine 14 ins.diam.bears S.10°E.42 lks.dist. marked ¼ S 17 B T
42.00	Draw 60 ft.deep,drains N.20°E.
	Ascend gradually.
48.60	Ridge 100 ft.high bears N.25°E.and S.25°W.
	Descend abruptly.
50.90.	Bottom of steep descent.
54.20	Creek 9 lks.wide 5 ins.deep,course S.30°W.
	Ascend abruptly.
66.00	Top of abrupt ascent 220 ft.high bears N.25°E.and S.25° W.
	Ascend gradually.
79.91	The cor.of secs.7,8,17,and 18.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land heavily timbered 79.91 chs.

N.89°57'W.on a random line bet.secs.7 and 18

40.00	Set temp.¼ sec.cor.
79.87	Intersect the W.bdy.of Tp.12 lks.N.of the cor.of secs. 7,12,13,and 18,heretofore described,;thence I run
	N.89°58'E.on a true line bet.secs.7 and 18
	Ascending over rocks and through dense pine timber.
38.00	Enter scattering pine timber.
39.87	Set a limestone 19x8x5 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.
	No suitable bearing trees within limits.
	Corner on ridge bears NE.and SW.;descend over rocks.
48.00	Bottom of steep descent;descend gradually,through heavy pine timber.
69.00	Begin ascent.

Chains	
79.87	The cor.of secs.7,8,17,and 18.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land 79.87 chs.
	Nov.16,1903,at this cor.I set off 18°34'S.on decl.arc; and at 11 h.45 m.a.m.l.m.t.observe the sun on the meridian the resulting lat.is 40°35'N.

N.0°04'W.bet.secs.7 and 8

	Ascending gradually through dense pine timber.
4.20	Steep ascent.
6.00	Top of ascent 140 ft.above sec.cor.,bears E.and W.
	Ascend gradually.
40.00	Set a sandstone 16x13x8 ins.11 ins.in the ground for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A spruce 8 ins.diam.bears N.79°E.45 lks.dist. marked 1/4 S 8 B T
	A spruce 30 ins.diam.bears N.65°30'W.27 lks.dist. marked 1/4 S 7 B T
	Ascend gradually.
57.30	Cliffs 300 ft.high bear N.70°W.and S.70°E.
	Leave timber.
	Ascend over rocks.
80.00	Set a sandstone 30x7x7 ins.15 ins.in the ground for cor.of secs.5,6,7,and 8,marked with 5 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 and spruce.
	Mountainous land 80.00 chs.

November 16,1903.

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
	Nov.17,1903,at 8 h.30 m.a.m.l.m.t.I set off 40°36'N.on lat.arc;18°45'S.on decl.arc and determine a true meridian with the solar at the cor.of secs.5,6,7,and 8;thence I run
	N.89°54'E.on a random line bet.secs.5 and 8
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.19	Intersect N.and S.line 19 lks.N.of the cor.of secs.4,5, 8 and 9;thence I run
	N.89°58'W.on a true line bet.secs.5 and 8
	Descending gradually on N.slope.
9.00	Descend abruptly.
	Enter pine timber bears NE.and SW.
14.40	Foot of steep descent;descend gradually.
26.00	Draw 250 ft.below sec.cor.Grains S.10°W.
	Ascend.
32.00	Ascend abruptly;leave timber;bears N.and S.
40.09½	Set a sandstone 15x12x5 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
	Ascend over rocks.
47.00	Ascend gradually;enter pine timber bears N.30°E.and S. 30°W.
73.00	Leave pine timber bears N.and S.
	Foot of steep ascent.
74.00	Top of ascent 100 ft.high bears N.and S.
80.19	The cor.of secs.5,6,7,and 8.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine and spruce.
	Mountainous land 80.19 chs.
	Nov.17,1903,at this cor.I set off 18°49'S.on decl.arc and at 11 h.45 m.a.m.l.m.t.observe the sun on the meridian;the resulting lat.is 40°36'N.

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
	S.89°58'W.on a random line bet.secs.6 and 7
40.00	Set temp.¼ sec.cor.
79.90	Intersect W.bdy.of Tp.5 lks.N.of the cor.of secs.1,6, 7,and 12,heretofore described;thence I run
	N.89°56'E.on a true line bet.secs.6 and 7
	Descending through dense pine timber.
9.00	Draw 130 ft.deep,drains S.
	Ascend gradually over rocks.
13.00	Descend along slope to S.
38.00	Draw 90 ft.deep,drains S.70°W.
	Ascend;leave pine timber.
38.90	Set a sandstone 15x9x6 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 3 ft.base 1½ ft.high N.of cor.Pits impracticable.
	Ascend gradually.
46.50	Enter pine timber bears NE.and SW.
54.00	Ascend abruptly over rocks.
60.00	Top of abrupt ascent;begin gradual ascent.
67.00	Ascend abruptly.
72.00	Top of ascent 110 ft.high bears N.35°E.and S.35°W.
	Leave timber.
	cross rocks to
79.90	The cor.of secs.5,6,7,and 8.
	Land mountainous.
	Soil rocky 4th rate
	Timber pine.
	Mountainous land 79.90 chs.

	N.0°04'W.on a random line bet.secs.5 and 6
40.00	Set temp.¼ sec.cor.
86.70	Intersect N.bdy.of Tp. 8 lks.E.of cor.of secs.5,6,31, and 32,heretofore described;thence I run
	S.0°07'E.on a true line bet.secs.5 and 6
	Over mountainous land,covered with loose slide rock;

SUBDIVISION OF T.2 N.R.8 W.

Chains.	
	Ascending.
46.70	Set a sandstone 15x10x8 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Corner located on top of high rocky ridge bears NW.and SE.
	Descend along W.slope of high peak.
61.00	Ascend.
85.00	Top of ridge bears NE.and SW.;descend.
86.70	The cor.of secs.5,6,7,and 8.
	Land mountainous.
	Soil rocky;4th rate.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountaincus land 86.70 chs.

November 17,1903.

GENERAL DESCRIPTION.

This township is composed mostly of gravel and rocks;there being very little rich loam;the south one-third being the only part possible for agricultural purposes of any kind. The balance of the township is mostly cliffs,canons and slide rock,not even showing any signs of mineral;and being so rough that it has been practically unexplored.

The timber in the southern part is mostly pine and scattering bunches of scrub pines;also some aspen and brush;that of the northern part being dense pine forests and covering almost all except the cliffs and rocky range tops.

SUBDIVISION OF T.2 N.R.8 W.

There are some indications of mineral on the high lands in the southern part,but nonerapparent in the northern sections,though not enough to warrant returning any portion as mineral land.

The southern part is not well watered,but the northern part is well watered by creeks and lakes draining both to the east and west of the township.The largest stream is the South Fork of Rock Creek in the bottom of a canon approximately a mile and a half wide. The water is clear and cold and good for all purposes.

The entire township is uninhabited,and only a small portion of the southern sections are used for grazing purposes,the grazing being very poor even for sheep.

There are numerous signs of deer,elk,and bear and mountain sheep were seen several times in herds of four and six.

The northern two-thirds of this township is good for nothing except to keep out of as even the timber it affords would be almost impossible to get on account of the rough character of the country.

There are no settlers in the township.

Fred Johnson,

U.S.Deputy Surveyor.

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PAGE

Meanders in T.2 N.,R.8 W.

Meanders of lake in sec.5

Oct.27,1903.

I commenceat the meander cor.of fracl.secs.5 and 32 on the N.bdy.of the Tp.,6.80 chs.S.89°50'E.of the cor.of secs.5-6-31 and 32,and run with meanders in sec.5.

S.3°00'W.,	4.00 chs.		Over mountainous land in heavy slide rock.
S.72°E.,	11.10	"	
N.75°30'E.,	6.60	"	To inlet creek,15 lks.wide, 8 ins.deep,course N.
N.75°30'E.,	5.90	"	
		"	
N.43°30'E.,	5.20	"	To meander cor.of fracl.secs. 5 and 32.,on E.shore of lake.

Land,mountainous.

Soil;rocky,4th rate.

No timber.

Mountainous land on 34.80 chs.

Oct.27,1903.

Meanders of lake in secs.4 and 5

NOV.12,1903.

I commence at the meander cor.of fracl.secs.5 and 32, 8.00 chs.N.89°50'W.of the cor.of secs.4-5-32 and 33, on the N.bdy.of the Tp.,and run with meanders in sec. 5.

Over mountainous land through heavy pine timber.

S.8°W.,	7.25 chs.		
S.42°30'E.	8.40	"	
S.1° E.,	6.00	"	
S.45°E.,	1.70	"	Leave heavy timber. Enter slide rock.
S.1°45'W.	3.00	"	
S.80°E.,	1.44	"	To meander cor.of fracl.secs. 4 and 5 ,on S.shore of lake.

Land,mountainous.

Soil;rocky,4th rate.

Timber,pine.

Mountainous land or heavily timbered land on 28.39 chs.

Thence in sec.4.

over mountainous land over heavy slide rock.

S.80°E.,	2.40 chs.	
S.20°E.,	2.00 "	
S.15°W.,	5.90 "	
S.55°E.,	5.80 "	
S.43°E.,	3.30	
S.1°W.,	3.00	
S.18°W.,	6.80	
S.67°45'E.	9.60	
S.52°15'E.,	3.40	
S.41°E.	6.90	
N.85°30'E.,	9.50	
N.8°15'E.,	7.20	
N.28°30'W.,	6.30	
N.50°15'E.,	21.80	
N.26°45'W.,	8.60	Leave slide rock. Enter heavy pine timber,bearing NE.and SW.
N.7°15'E.,	8.90	To outlet creek,35 lks.wide,10 ins.deep course NE.
N,7°15'E	1.10	
N.40°W.,	7.80	
N.7°15'E.,	4.50	
N.65°30'W.,	8.00	
S.80°W.,	3.80	
S.47°15'W.,	4.50	
S.76°W.,	8.00	
S.22°30'W.,	14.00	
N.26°30'W.,	15.00	
N.49°30'W.,	7.70	To meander cor.,which is also the cor.of secs.4-5-32 and 33,on the north shore of lake.

Land,mountainous.

Soil;rocky,3rd and 4th rate.

Timber,pine,

Mountainous or heavily timbered land on 185.80 chs.

----------o---- Nov.12,1903.

Meanders of lake. in sec.4.

Oct.27,1903'

I commence at the meander cor.of fracl.secs.4 and 33,S.89°50'E.,46.84 chs.dist.from the cor.of secs. 4-5-32 and 33.on the W.shore of lake,and run with meanders in sec.4.

Over mountainous land through heavy pine timber.

S.13°15'E., 9.30 chs. Inlet creek,30 lks.wide,course NE.
S.13°15'E., 3.40 "
N.78°E., 5.30 "

N.22°W., 8.90 "

N.1°15'E., 3.00 " To meander cor.of fracl.secs. 4 and 33,on the E.shore of lake.

Land,mountainous.

Soil;rocky,3rd and 4th rate.

Timber,pine.

Mountainous land or heavily timbered on 29.90 chs.

Oct.27,1903.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

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

.....

owing the respective capacities in which they acted:

....., *Chainman.*

For final affidavits see book "L"T.4 N.R.8 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

part or portions of the .....

.....

.....

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

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

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

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

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

neral for

For final affidavits see book "L" T.4 N.R.8 W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

bscribed and sworn to before me this .....

day of ....., 190

SEAL

.....

.....

6-151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ... United States Deputy Surveyor, d
solemnly swear that, in pursuance of a contract received from ..... .
United States Surveyor General for ..... , bearing date of th
..... day of ..... , 190 , I have well, faithfully, and truly, in my ow
proper person, and in strict conformity with the instructions furnished by the United States Surveyo
General for ..... , the Manual of Surveying Instructions, and the laws of th
United States, surveyed all those parts or portions of .....
For final affidavits see book "L" T.4 N.R.8 W.
..... 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 1, 190 4.

The foregoing field notes of the survey of the Subdivisional lines of Township No 2 North, Range No.8 West of the Uintah Special Base and Meridian, Utah,
executed by Fred Johnson
under his contract No. 276, dated August 10, 190 3, 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.

6—151

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4—679.

BOOK A-311

I.

FILED

SEP 30 1904

FIELD NOTES

OF THE SURVEY OF THE

SECOND GUIDE MERIDIAN WEST

OR

WEST BOUNDARIES OF

TOWNSHIP NO.3 and NO.4 NORTH,

between

RANGES NO.8 AND 9 WEST.

Of the Uintah Special Base and ..... *Meridian,*

In the state of Utah.

AS SURVEYED BY

Fred Johnson ..... , *United States Deputy Surveyor,*

Under his Contract No. 376 , *dated* August 10,1903,

Survey commenced June 14,1904,

Survey completed July 8,1904.

6—151

T3N
T4N

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

Chas Walter Heinecke	Chairman
James E Laughlin	"
Alf Johnson	"
A.H.Rock	"
Delbert Bowers	Mountman.
W.T.Muse	Axman.
Freemen Bowers	"
Ralph Labrum	Flagman.

BOOK A-311

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We Alf Johnson, A. H. Rock and Charles Walter Heinecke, James E. Laughlin 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 Second Guide Meridian West through Tps. 3 and 4 N., between Rs. 8 and 9 W., Uintah Special Base and Meridian, Utah.

Alf Johnson, Chas. Walter Heinecke, Chainman.
A. H. Rock, James E. Laughlin, Chainman.

Subscribed and sworn to before me this 15th day of June 1904.

SEAL

Fred Johnson
U. S. Dep. Sur.

We, Delbert Bowers 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 Second Guide Meridian West through Tps. 3 and 4 N., between Rs. 8 and 9 West, of Uintah Special Base and Meridian, Utah.

Delbert Bowers, Moundman.
____, Moundman.

Subscribed and sworn to before me this 15th day of June 1904.

SEAL

Fred Johnson
U. S. Dep. Sur.

We, W. T. Muse and Freemen Bowers 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 Second Guide Meridian West, through Tps. 3 and 4N., between Rs. 8 and 9 West, of Uintah Special Base and Meridian, Utah.

W. T. Muse, Axman.
Freemen Bowers, Axman.

Subscribed and sworn to before me this 15th day of June 1904.

SEAL

Fred Johnson
U. S. Dep. Surveyor

I, Ralph Labrum, 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 Second Guide Meridian West through Tps. 3 and 4 N., between survey of Rs. 8 and 9 W., of the Uintah Special Base and Meridian, Utah.

Ralph Labrum, Flagman.

Subscribed and sworn to before me this 15th day of June 1904.

SEAL

Fred Johnson
U. S. Dep. S.

6—151

CHAINS

Survey commenced June 14,1904,and executed with the instrument described in book "G" of this survey.
At the cor.of Tps.2 and 3 N.,Rs.7 and 8 W.,heretofore described,in approximate latitude 40° 37'N.,longitude 110° 52'W.,at 3h p.m.,l.m.t..I set off 40° 37'N.on the lat.arc;23° 18'N.on the decl.arc;and determine with the solar a meridian,and mark a point thereof,on a stone firmly set in the ground,5 chs.N.of the cor.

June 14,1904.

June 15:At 1h 52m 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 this determined on a peg driven in the ground,5 chs.N.of my station.
At 7h a.m.,I lay off the azimuth of Polaris,1° 35'to the west,and mark the meridian thus determined by cutting a small groove in the stone set early this morning,on which the meridian falls 0.4 ins.east of the mark determined by the solar.
At 8h a.m.,l.m.t.,I set off 40° 37'N.on the lat.arc; 23° 20'N.on the decl.arc;and mark a point in the meridian determined with the solar ,by a cross on the stone, already set 5 chs.N.of my station;this mark falls 0.3 ins.east of the meridian established by the Polaris observation.
the solar apparatus,by p.m.and a.m.observations,defines positions for meridians,respectively about 0'31" 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 is N.17°00' E. W.;the angle thus determined gives the magnetic decl. 17°00' E.
From the township cor.,already described,I run

CHAINS	
	North,bet.secs.31 and 36.
	Over mountainous land through heavy slide rock,ascend.
31.00	Top of ridge bears NW.and SE.
	Descend.
	Difference bet.measurements of 40.00 chs.,
	by two sets of chainmen is 18 lks.;position of middle point
	By 1st set,40.09 chs.,
	By 2nd set,39.91 chs.,the mean of which is
40.00	Set a sandstone,18x10x6 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable. Ascend.
53.00	Top of high rocky ridge bears NE.and SW.
	Descend.
	Difference bet.measurements of 80.00 chs.by two sets of chainmen is 14 lks.;position of middle point
	By 1st set,80.07 chs.,
	By 2nd set,79.93 chs.,the mean of which is
80.00	Set a sandstone,15x14x6 ins.,10 ins.in the ground,for cor.of secs.25-30-31 and 36,marked with 1 notch on the S. and 5 notches on N.edges;raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil;rocky,4th rate.
	No timber.
	Mountainous land on 80.00 chs.
	June 15:At this cor.,I set off 23° 20' N.on the decl.arc; and at 12h M.,observe the sun on the meridian;the resulting lat.is 40° 38' N.

MAINS

North bet.secs.25 and 30.

Descend over slide rock.

10.00 Enter heavy pine timber,bearing NE.and SW.

Difference bet.measurements of 40.00 chs.,by two sets of chainmen is 8 lks.;position of middle point

By 1st,40.04 chs.,

By 2nd set,39.96 chs.,the mean of which is

40.00 Set a sandstone,15x8x6 ins.,10 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which

A pine,10 ins.diam.,bears N.13°E.,42 lks.dist., marked $\frac{1}{4}$ S 30 B T.

A pine,8 ins.dia m.,bears S.60°W.,70 lks.dist., marked $\frac{1}{4}$ S 25 B T.

Difference bet.measurements of 80.00 chs.,by two sets of chainmen is 12 lks.;position of middle point

By 1st.set,80.06 chs.,

By 2nd set,79 94 chs.,the mean of which is

80.00 Set a sandstone,15x10x10 ins.,10 ins.in the ground,for cor.of secs.19-24-25 and 30,marked with 2 notches on the S.and 4 notches on the N.edge;from which

A pine,12 ins.diam.,bears N.7°E.,19 lks.dist., marked T 3 N R 8 W S 19 B T.

A pine,6 ins.diam.,bears S.22°E.,15 lks.dist., marked T 3 N R 8 W S 30 B T.

A pine,8 ins.diam.,bears S.53°W.,40 lks.dist., marked T 3 N R 9 W S 25 B T.

A pine,8 ins.diam.,bears N.12°30'W.,38 lks.dist., marked T 3 N R 9 W S 24 B T.

Land,mountainous.

Soil;rocky,3rd and 4th rate.

Timber,pine.

Mountainous or heavily timbered land on 80.00 chs.

CHAINS	
	North bet.secs.19 and 24.
	Over mountainous land descend through heavy pine timber.
35.00	Creek,12 lks.wide,4 ins.deep,in bottom of gulch,500 ft. deep,course NW.
	Ascend.
	Difference bet.measurements of 40.00 chs.,by two sets of chainmen is 10 lks.;position of middle point
	By 1st set,40.05 chs.,
	By 2nd set,39.95 chs.,the mean of which is
40.00	Set a sandstone,18x8x4 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pine,9 ins.diam.,bears S.40°E.,87 lks.dist., marked $\frac{1}{4}$ S 19 B T.
	A pine,8 ins.diam.,bears S.52°W.,45 lks.dist., marked $\frac{1}{4}$ S 24 B T.
	Leave timber.
	Difference bet.measurements of 80.00 chs.by two sets of chainmen is 14 lks.;position of middle point
	By 1st set,80.07 chs.,
	By 2nd set,79.93 chs.,the mean of which is
80.00	Set a sandstone,14x12x6 ins.,9 ins.in the ground,for cor.of secs.13-18-19 and 24,marked with 3 notches on the N.and S.edges;and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.00 chs.
	---------- June 15,1904.

CHAINS

June 16,1904:At 8h a.m.,l.m.t.,I set off 40°39'N.on the lat.arc;23°22'N.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.

Ascend over loose rock slide and scattering pine timber.

10.50 Top of spur projects NW.

Descend.

12.00 Enter heavy pine timber,bearing E.and W.

Difference bet.measurements of 40.00 chs.,by two sets of chainmen is 16 lks.;position of middle point

By 1st set,40.08 chs.,

By 2nd set,39.92 chs.,the mean of which is

40.00 Set a sandstone,18x6x6 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which

A pine,6 ins.diam.,bears N.80°W.,0.35 chs.dist., marked ¼ S 13 B T.

A pine,8 ins.diam.,bears S.12°E.,70 lks.dist., marked ¼ S 18 B T.

55.00 Head of gulch course E.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 16 lks.;position of middle point

By 1st set,80.08 chs.,

By 2nd set,79.92 chs.,the mean of which is

80.00 Set a sandstone,20x8x8 ins.,15 ins.in the ground,for cor.of secs.7-12-13 and 18,marked with 4 notches on the S.and 2 notches on the N.edge;from which

A pine,16 ins.diam.,bears N.15°E.,1.34 chs.dist., marked T 3 N R 8 W S 7 B T.

A pine,5 ins.diam.,bears S.28°30'E.,20 lks.dist., marked T 3 N R 8 W S 18 B T.

A pine,30 ins.diam.,bears S.15°W.,24 lks.dist., marked T 3 N R 9 W S 13 B T.

A pine,12 ins.diam.,bears N.21°30'W.,1.32 chs.dist., marked T 3 N R 9 W S 12 B T.

CHAINS

Land,mountainous.

Soil;rocky,3rd and 4th rate.

Timber,pine.

Mountainous or heavily timbered land on 80.00 chs.

June 16:At this cor.,I set off 23°22'N.on the decl arc;and at 12 M.,observe the sun on the meridian;the resulting lat.is 40°40'N.

North bet.secs.7 and 12.

Over mountainous land ascend through heavy pine timber.

6.00 Top of spur projects NE.

Descend.

22.50 East fork of North fork of DuChesne River,30 lks.wide, 10 ins.deep, [illegible] in bottom of canon,300 ft. deep,course SW.

35.00 Top of spur projects SW. Descend.

Difference bet.measurements of 40.00 chs.by two sets of chainmen is 18 lks.;position of middle point

By 1st set,40.09 chs.,

By 2nd set,39.91 chs.,the mean of which is

40.00 Set a sandstone,15x10x10 ins.,10 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which

A pine,7 ins.diam.,bears S.41°E.,30 lks.dist., marked ¼ S 7 B T.

A pine,8 ins.diam.,bears S.53°30'W.,19 lks.dist., marked ¼ S 12 B T.

Difference bet.measurements of 80.00 chs.by two sets of chainmen is 20 lks.;position of middle point

By 1st set,80.10 chs.,

By 2nd set,79.90 chs.,the mean of which is

80.00 Set a sandstone,18x12x6 ins.,12 ins.in the ground,for cor.of secs.1-6-7 and 12,marked with 5 notches on the S.and 1 notch on the N.edge;from which

A pine,10 ins.diam.,bears N.18°E.,34 lks.dist.,

CHAINS	
	marked T 3 N R 8 W S 6 B T.
	A pine,8 ins.diam.,bears S.84°E.,17 lks.dist.,
	marked T 3 N R 8 W S 7 B T.
	A pine,12 ins.diam.,bears S.8°W.,15 lks.dist.,
	marked T 3 N R 9 W S 12 B T.
	A pine,14 ins.dim.,bears N.34°W.,22 lks.dist.,
	marked T 3 N R 9 W S 1 B T.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 80.00 chs.

	North bet.secs.1 and 6.
	Over mountainous land descend through heavy pine timber.
2.00	Bottom of gulch,300 ft.deep,course SW.
	Creek,10 lks.wide,5 ins.deep,course SW.,in bottom of gulch.
	Ascend.
21.00	Top of spur projects SW.
	Descend.
	Difference bet.measurements of 40.00 chs.by two sets of chainmen is 22 lks.;position of middle point
	By 1st set,40.11 chs.,
	By 2nd set,39.69 chs.,the mean of which is
40.00	Set a sandstone,18x6x6 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pine,8 ins.diam.,bears S.42°30'E.,52 lks.dist.,
	marked $\frac{1}{4}$ S 6 B T.
	A pine,6 ins.diam.,bears S.17°W.,27 lks.dist.,
	marked $\frac{1}{4}$ S 1 B T.
58.00	Bottom of gulch,100 ft.deep,course SW.
	Ascend.
73.00	Top of spur projects SW.

West BDY.OF T.3 N.,R.8 W.,or 2nd GUIDE MERIDIAN WEST.

CH.INS	
	Difference bet.measurements of 80.00 chs.,by two sets of chainmen is 24 lks.;position of middle point
	By 1st set,80.12 chs.,
	By 2nd set,79.88 chs.,the mean of which is
80.00	Set a sandstone,16x8x6 ins.,12 ins.in the ground,for cor.of Tps.3 and 4 N.,Rs.8 and 9 W.,marked with 6 notches on the N.,S.,E.,and W.edges;from which
	A pine,16 ins.diam.,bears N.73°E.,28 lks.dist., marked T 4 N R 8 W S 31 B T.
	A pine,20 ins.diam.,bears S.16°30'E.,48 lks.dist., marked T 3 N R 8 W S 6 B T.
	A pine,18 ins.diam.,bears S.27°W.,32 lks.dist., marked T 3 N R 9 W S 1 B T.
	A pine,16 ins.diam.,bears N.76°W.,35 lks.dist., marked T 4 N R 9 W S 36 B T.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 80.00 chs.
	June 16,1904.
	For general description,see notes of subdivisions of this township.

Fred Johnson
US.Deputy Surveyor.

CHAINS

Survey commenced July 7,1904,and executed with the instrument described in book "G" of this survey.

At the cor.of Tps. 3 and 4 N.,RS.8 and 9 W.,heretofore described,in approximate lat.40°42'N.,longitude 110°45'14" W.,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 4 h p.m.,l.m.t.,I set off 40°42'N.on the lat.arc; 22°35'N.on the decl.arc;and determine with the solar a meridian,and mark a point thereof,on a stone,firmly set in the ground,5 chs.N.of the cor.

July 7,1904.

At 12h30 m a.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.

At 6 h a.m.,I lay off the azimuth of Polaris,1°35'to the west,and mark the meridian thus determined by cutting a small groove in the stone,set early this morning, on which the meridian falls 0.4 ins.east of the mark determined by the solar.

At 7h a.m.,l.m.t.,I set off 40°42'N.on the lat.arc; 22° 31 'N.on the decl.arc;and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station;this mark falls 0.3 ins.east of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.am observations defines positions for meridians,respectively about 0'21" west, and 0'16" east of the meridian determined by the

CHAINS	
	Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetis bearing of the true meridian is N.17°00'W. which gives the magnetic decl. N.17°00'E.
	From the Tp.cor., already described I run
	North, on the Guide Meridian, bet.secs.31 and 36.
	Descend over mountainous land through heavy pine timber.
23.00	Creek, 5 lks.wide, 3 ins.deep, in bottom of hollow, 150 ft. deep, course SW.
	Ascend.
	Difference bet.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 sandstone, 14x12x7 ins., 9 ins.in the ground, for ¼ sec.cor., marked ¼ on W.face; from which
	A pine, 12 ins.diam., bears N.84°E., 92 lks.dist., marked ¼ S 31 B T.
	A pine, 10 ins.diam., bears S.87°W., 85 lks.dist., marked ¼ S 36 B T.
60.00	Top of spur projects SW.
	Descend.
	Difference bet.measurements of 80.00 chs.by two sets of chainmen is 10 lks.; position of middle point
	by 1st set, 80.05 chs.,
	By 2nd set, 79.95 chs., the mean of which is
80.00	Set a sandstone, 12x8x6 ins., 8 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.edge; from which
	A pine, 13 ins.diam., bears N.72°E., 59 lks.dist., marked T 4 N R 8 W S 30 B T.
	A pine, 12 ins.diam., bears S.23°E., 34 lks.dist., marked T 4 N R 8 W S 31 B T.
	A pine, 14 ins.diam., bears S.19°W., 52 lks.dist.,

CHAINS

marked T 4 N R 9 W S 36 B T.

A pine, 16 ins. diam., bears N.2°W., 47 lks. dist., marked T 4 N R 9 W S 25 B T.

Land, mountainous.

Soil; rocky, 3rd and 4th rate.

Timber, pine.

Mountainous and heavily timbered land on 80.00 chs.

North bet. secs. 25 and 30.

Descend over mountainous land through heavy pine timber.

20.00 Creek, 10 lks. wide, 5 ins. deep, in bottom of hollow, 200 ft. deep, course SW.

Ascend . Leave timber.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is 10 lks.; position of middle point

By 1st set, 40.05 chs.,

By 2nd set, 39.95 chs., the mean of which is

40.00 Set a sandstone, 12x10x6 ins., 8 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Pits impracticable.

Begin abrupt ascent over rock slide.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 14 lks.; position of middle point

By 1st set, 80.07 chs.,

By 2nd set, 79.93 chs., the mean of which is

80.00 Set a sandstone, 18x9x8 ins., 12 ins. in the ground, for cor. of secs. 19-24-25 and 30, marked with 2 notches on the S. and 4 notches on the 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.

CHAINS

Mountainous or heavily timbered land on 80.00 chs.

North bet.secs.19 and 24.

Ascend abruptly over rock slide.

9.40 Intersect North Boundary of Uintah Indian Reservation.

Set a sandstone,18x10x7 ins.,12 ins.in the ground,for closing cor.of secs.19 and 24,marked

C C U I R with 2 grooves on the S.,

U F R with one and 2 grooves on the E.and W.faces; raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.

From the closing cor.,the ½ mile cor.,bet the 58 mile and 59 mile cors.,which is a sandstone,16x8x7 ins.above ground,marked as described by Deputies A.H.and F.M.Brown, bears S.50°30'E.,13.68 chs.dist.

Land,mountainous.

Soil;rocky,4th rate.

No timber.

Mountainous land on 9.40 chs.

July 8,1904.

For general description see notes of the subdivision of T.4 N.R.8 W.

2ND GUIDE MERIDIAN WEST OR W.BDY.OF T.4 N.,R.6W.

BOUNDARIES OF T.4 N.,R.6 W.

Latitudes, Departures and closing errors.

Line designated.	True bearing	Dist.	Latitudes.		Departures.		
			N.	S.	E.	W.	
N.Bdy.of Uintah Indian Reservation through R.6 W.		chs.	chs.	chs.	chs.	chs.	
	N.78°30'W.,	11.96	2.36			11.72	
	S.48°15'W.,	33.50		22.30		24.99	
	West	11.50				11.50	
	N.64°30'W.	46.20	19.90			41.70	
	S.70°00'W.	56.90		19.46		53.47	
	S.49°45'W.,	54.80		35.40		41.83	
	S.70°W.,	13.0		4.45		12.22	
	S.74°30'W.	28.50		7.61		27.46	
	S.30°30'W.	7.70		6.64		3.91	
	S.53°30'W.,	303.40		182.32		167.51	
	N.50°30'W.	111.68	71.04			86.17	
2nd Guide Meridian West or W.bdy.,T.4 N.,R.6 W.	South	169.40		169.40			
E.bdy.,of T.3 N., R.6 W.	S.89°54'E.	478.40		0.84	478.40		
W.bdy.,T.4 N.,R.7 W.	North	292.55	292.55				
Convergency						0.30	
			385.27	387.08	478.40	478.76	
				385.27		478.46	
Error in lat.and dep.				1.81		.38	

Fred Johnson

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 Fred Johnson, 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 Second Guide Meridian West, through Tps. 3 and 4 N., between Rs. 8 and 9 W., of Uintah Special Base and Meridian, Utah showing the respective capacities in which they acted:

Alf Johnson, and A. H. Rock, Chainman.

Chas. Walter Heinecke and James E. Laughlin, Chainman.

Delbert Bowers, Moundman.

....., Moundman.

W. T. Muse, Axman.

Freemen Bowers, Axman.

Ralph Labrum, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Fred Johnson, United States Deputy Surveyor, in surveying all those parts or portions of the Second Guide Meridian West, through Tps. 3 and 4 North, between Rs. 8 and 9 West, of the Uintah Special Base and meridian, in the State of Utah, which are represented on the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Chas. Walter Heinecke James E. Laughlin, Chainman.

Alf. Johnson A. H. Rock, Chainman.

Delbert Bowers, Moundman.

....., Moundman.

W. T. Muse, Axman.

Freemen Bowers, Axman.

Ralph Labrum, Flagman.

Subscribed and sworn to before me this 8th day of July, 1904.

SEAL

Fred Johnson
U. S. Dep. Surveyor.

9—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Fred Johnson, 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 10th day of August, 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

Second Guide Meridian West, through Tps. 3 and 4 N., Between Rs. 8 and 9 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.

Fred Johnson
United States Deputy Surveyor.

Subscribed by said Fred Johnson, and sworn to before me this 23rd day of September, 1903

Jno. M. Nichols
Clerk U.S. Dist. Ct.
D. of Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah Nov. 19, 1903.

The foregoing field notes of the survey of the Second Guide Meridian West or W. Bdys. of Townships No. 3 and 4 North, between Ranges No. 8 and 9 West of the Uintah Special Base and Meridian, Utah,

executed by Fred Johnson under his contract No. 276, dated August 10, 1903, XXX, 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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4—670.

BOOK A-311

J.

FILED

SEP 30 1904

Get C.C. initials

FIELD NOTES

OF THE SURVEY OF THE

NORTH BOUNDARY

OF

TOWNSHIP NO. 3 NORTH

RANGE NO. 8 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

Fred Johnson, *United States Deputy Surveyor,*

er his Contract No. 276, *dated* August 10, 190 3.

ey commenced June 18, 190 4.

ey completed June 20, 190 4.

4—311

Freight 5.78.40

BOOK A-311

NAMES AND DUTIES OF ASSISTANTS.

Chas.Walter Heinecke	Chainman.
A.H.Rock	Chainman.
Delbert Bowers	Moundman
W.T.Muse	Axman.
Freemen Bowers	Axman
Ralph Labrum	Flagman.

For preliminary affidavits see book "F" T,2 N.R.8 W.

6—151

BOOK A-311

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

N.BDY.OF T.3 N.,R.8 W.

CHAINS

Survey commenced June 18,1904,and executed with the instrument described in book "C" of this survey.
I know the instruement to be in adjustment from recent observations made June 14 and described in book "I" of this survey.
At 8h a.m.,l.m.t.,I set off 40°42'N.on the lat.arc; 23°25'N.on the decl.arc;and determine a meridian with the solar at the cor.of Tps.3 and 4 N.,Rs.7 and 8 W.,which is a sandstone rock in place 24x12x6 ins.above ground,- marked and witnessed as described by Washington Jenkins D.S., under his contract No.275
Thence I run
N.89°50'W.on a random line along the north boundary of the township,setting temp.¼ sec.and sec.cors.at intervals of 40.00 chs.,and at 478.40 chs.,intersect the W.bdy. of the Tp.,55 lks.N.of the cor.of Tps.3 and 4 N.,Rs. 8 and 9 W.,heretofore described. The falling answers to a correction of 0°04'or 9 lks.S.per mile.
Therefore I run S.89°54'E.,on a true line along the N.bdy.of the Tp.

June 18,1904.

June 19:At 8h a.m.,l.m.t.,I set off 40°42'N.on the lat.arc;23°27'N.on the decl.arc;and determine a meridian with the solar at the cor.of tps.3 and 4 N.,Rs.8 and 9 W. heretofore described.
Thence I run
S.89°54'E.,bet.secs.6 and 31.
Over mountainous land through heavy pine timber,ascend.

10.50 Top of spur projects SW.
Descend,
16.00 Head of hollow,course SW.
Ascend.
21.00 Top of spur projects SW.

CHAINS

Descend.

38.40 Set a sandstone,14x12x7 ins.,9 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which

A pine,6 ins.diam.,bears N.87°W.,4 lks.dist., marked $\frac{1}{4}$ S 31 B T.

A pine,14 ins.diam.,bears S.48°W.,8 lks.dist., marked $\frac{1}{4}$ S 6 B T.

47.00 Creek,10 lks.wide,3 ins.deep,in bottom of ravine,200 ft. deep,course west to SW.

Thence along bottom of ravine,

55.00 Leave creek and bottom of ravine,course SW.to west

Ascend.

78.40 Set a sandstone,15x8x4 ins.,10 ins.in the ground,for cor.of secs.5-6-31 and 32,marked with 1 notch on the W.and 5 notches on the E.edge;from which

A pine,6 ins.diam.,bears N.89°30'E.,27 lks.dist., marked T 4 N R 8 W S 32 B T.

A pine,15 ins.diam.,bears S.3°E.,20 lks.dist., marked T 3 N R 8 W.S 5 B T.

A pine,10 ins.diam.,bears S.81°30'W.,33 lks.dist., marked T 3 N R 8 W S 6 B T.

A pine,13 ins.diam.,bears N.5°W., 24 lks.dist., marked T 4 N R 8 W S 31 B T.

Land,mountainous.

Soil;rocky,3rd and 4th rate.

Timber,pine.

Mountainous and heavily timbered land on 78.40 chs.

June 19:At this cor.,I set off 23°26'N.on the decl.arc;and at 0 h.01m.p.m.l.m.t.,observe the sun on the meridian;the resulting lat.is 40°42'N.

NORTH BDY.OF T.3 N.,R.8 W.

CHAINS	
	S.89°54'E.,bet.secs.5 and 32.
	Over mountainous land ascend through heavy pine timber.
25.00	Top of spur projects SW.
	Descend.
40.00	Set a sandstone,14x6x6 ins.,9 ins.in the ground,for $\frac{1}{2}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	A pine,32 ins.diam.,bears N.37°E.,98 lks.dist., marked $\frac{1}{4}$ S 32 B T.
	A pine,10 ins.diam.,bears S.16°W.,59 lks.dist., marked $\frac{1}{4}$ S 5 B T.
76.00	Creek,10 lks.wide,3 ins.deep,in bottom of gulch,100 ft. deep,course S.
	Ascend.
80.00	Set a sandstone,15x8x6 ins.,10 ins.in the ground,for cor.of secs.4-5-32 and 33,marked with 2 notches on the W.and 4 notches on the E.edge;from which
	A pine,18 ins.diam.,bears N.33°E.,10 lks.dist., marked T 4 N R 8 W S 33 B T.
	A pine,22 ins.diam.,bears S.52°E.,1.12 chs.dist., marked T 3 N R 8 W S 4 B T.
	A pine,36 ins.diam.,bears S.71°W.,93 lks.dist., marked T 3 N R 8 W S 5 B T.
	A pine,24 ins.diam.,bears N.70°W.,75 lks.dist., marked T 4 N R 8 W S 32 B T.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily ~~timbered~~ land on 80.00 chs.

	S.89°54'E.,bet.secs.4 and 33.
	Over mountainous land ascend through heavy pine timber.
22.00.	Top of ridge bears NE.and SW.
	Descend.

NORTH BDY. OF T.3 N.,R.6 W.

CHAINS	
40.00	Set a sandstone,15x10x6 ins.,10 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face:from which A pine,18 ins.diam.,bears N.28°E.,33 lks.dist., marked ¼ S 33 B T. A pine,12 ins.diam.,bears S.6°E.,1.00 ch.dist., marked ¼ S 4 B T.
70.00	Spring branch,5 lks.wide,2 ins.deep,in bottom of hollow, 75 ft.deep,course S. Begin abrupt ascent.
73.00	Top of spur projects S. Descend abruptly.
76.50	Creek,10 lks.wide,5 ins.deep,in bottom of canon 150 ft. deep. Ascend.
80.00	Set a sandstone,14x8x6 ins.,9 ins.in the ground,for cor.of secs.3-4-33 and 34,marked with 3 notches on the E.and W.edges;from which A pine,10 ins.diam.,bears N.40°E.,49 lks.dist., marked T 4 N R 6 W S 34 B T. A pine,10 ins.diam.,bears S.38°30'E.,52 lks.dist., marked T 3 N R 6 W S 3 B T. A pine,14 ins.diam.,bears S.41°30'W.,15 lks.dist., marked T 3 N R 6 W S 4 B T. A pine,10 ins.diam.,bears N.10°W.,32 lks.dist., marked T 4 N R 6 W S 33 B T.
	Land,mountainous.
	Soil:rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 80.00 chs.

CHAINS	
	S.89°54'E.,bet.secs.3 and 34.
	Over mountainous land ascend through heavy pine timber.
34.00	Leave timber,bearing N.and S.
40.00	Set a sandstone,12x8x8 ins.,8 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
48.00	Top of abrupt ascent bears NW.and SE.
	Thence over high rocky plateau.
69.00	Descend abruptly over broken ledges;bearing NW.and SE.
75.00	Begin abrupt ascent over broken sandstone ledges,bearing NE.and SW.
78.50	Top of abrupt ascent bears NE.and SW.
	Begin gradual ascent.
80.00	Set a sandstone,18x10x6 ins.,12.ins.in the ground,for cor.of secs.2-3-34 and 35,marked with 4 notches on the W.and 2 notches on the E.edges;and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.00 chs.
	June 19,1904.

	June 20:At 8h a.m.,l.m.t.,I set off 40°42'N.,on the lat. arc;23°27'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.2-3-34 and 35.
	Thence I run
	S.89°54'E.,bet.secs.2 and 35.
	Over mountainous land ascend over heavy slide rock.
5.00	Top of spur projects NE.
13.00	Begin abrupt descent bearing NE.and SE.

CHAINS	
40.00	Set a sandstone, 15x10x8 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
55.00	Enter scattering pine timber.
80.00	Set a sandstone, 16x8x6 ins., 11 ins. in the ground, for cor. of secs 1-2-35 and 36, marked with 5 notches on the W. and 1 notch on the E. edge; from which
	A pine, 14 ins. diam., bears S. 71° W., 47 lks. dist., marked T 3 N R 8 W S 2 B T.
	A pine, 36 ins. diam., bears N. 39° E., 52 lks. dist., marked T 4 N R 8 W S 36 B T.
	A pine, 32 ins. diam., bears S. 48° E., 30 lks. dist., marked T 3 N R 8 W S 1 B T.
	A pine, 30 ins. diam., bears N. 51° W., 45 lks. dist., marked T 4 N R 8 W S 35 B T.
	Land, mountainous.
	Soil; rocky, 3rd and 4th rate.
	Timber, pine.
	Mountainous land on 80.00 chs.

	S. 89° 54' E., bet. secs. 1 and 36.
	Over rocky land through scattering pine timber, descend.
7.00	Creek, 5 lks. wide, 2 ins. deep, in bottom of ravine, 100 ft. deep, course NE.
	Ascend.
12.00	Enter heavy pine timber, bearing NE. and SW.
	Descend.
20.00	Creek, 10 lks. wide, 4 ins. deep, in bottom of hollow, at mouth, 100 ft. deep, course NE.
	Leave timber.
38.00	Enter heavy pine timber, bearing NW. and SE.
40.00	Set a sandstone, 18x14x7 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from whcih

NORTH BDY. OF T.3 N., R.8 W.

CHAINS	
	A pine, 15 ins. diam., bears N.70°W., 15 lks. dist., marked $\frac{1}{4}$ S 36 B T.
	A pine, 14 ins. diam., bears S.14°W., 65 lks. dist., marked $\frac{1}{4}$ S 1 B T.
	Descend.
52.90	Creek, 10 lks. wide, 4 ins. deep, in bottom of hollow, 75 ft. deep, course SE. Ascend.
61.00	Descend.
73.00	Same creek, course NE.
	Ascend.
80.00	The cor. of Tps. 3 and 4 N., Rs. 7 and 8W.
	Land, mountainous.
	Soil; rocky, 3rd and 4th rate.
	Timber, pine.
	Mountainous or heavily timbered land on 80.00 chs.
	June 20, 1904.

BOUNDARIES OF T.3 N., R.8 W.

Latitudes, departures and closing errors.

Line designated	true bearing	Dist.	Latitudes. N.	Latitudes. S.	Departures. E.	Departures. W.
		chs.	chs.	chs.	chs.	chs.
N. bdy., T.3 N., R.8 W.	N.89°54'W.	478.40	0.84			478.40
W. bdy., T.3 N., R.8 W.	South	480.00		480.00		
N. bdy., T.2 N., R.8 W.	S.89°50'E.	479.28		1.40	479.28	
W. bdy., T.3 N., R.7 W.	North	480.00	480.00			
Convergency						0.63
			480.84	481.40	479.28	479.03
Error in lat. and dep.			480.84		479.03	
			0.56		0.25	

For general description, see subdivisions of this Tp.

Fred Johnson

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 Fred Johnson

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

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

.bdys. of Tps. 1-2-3 N., R. 8 W., of the Uintah Special Base and Meridian

tah.

wing the respective capacities in which they acted:

harles Walter Heinecke, *Chainman.*

.H. Rock, *Chainman.*

lbert Bowers, *Moundman.*

, *Moundman.*

T. Muse, *Axman.*

eemen Bowers, *Axman.*

ph. Labrum, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Fred Johnson

, United States Deputy Surveyor, in surveying all

e parts or portions of the N. Bdys. of Tps. 1-2-3 N., R. 8 W., of Uintah

ecial Base and Meridian, Utah.

of the Uintah

ecial Base and meridian, in state of Utah., which are represented

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

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

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

eral for Utah.

Chas. Walter Heinecke, *Chainman.*

A. H. Rock, *Chainman.*

Delbert Bowers, *Moundman.*

, *Moundman.*

W. T. Muse, *Axman.*

Freemen Bowers, *Axman.*

Ralph Labrum, *Flagman.*

scribed and sworn to before me this 5th

day of August 1904, 189

SEAL

Fred Johnson

U. S. Dep. Surveyor

-161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Fred Johnson, 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 10th day of August, 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 N. bdys. of Tps. 1-2-3 N., R. 8 W.

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

in books "F" and "J"

Fred Johnson
United States Deputy Surveyor.

Subscribed by said Fred Johnson, and sworn to before me this 25 day of September, 1904

Jno. M. Nickols
Clerk U.S. Dist. Court
W. D. W. D. of Mo.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah Nov. 19, 1904.

The foregoing field notes of the survey of the North Boundary of Township No. 3 North, Range No. 8 West of the Uintah Special Base and Meridian, Utah,

executed by Fred Johnson under his contract No. 276, dated August 10, 1903, XXX, 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.

"K"
BOOK A-311

FILED
SEP 30 1904

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 3 NORTH

RANGE NO. 8 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

Fred Johnson, *United States Deputy Surveyor,*

Under his Contract No. 276, *dated* August 10, *190*3.

Survey commenced June 21, *190*4.

Survey completed July 6, *190*4.

6—151

high 59.75 09
Meridian high 2.15 27

NAMES AND DUTIES OF ASSISTANTS.

Chas.Walter Heinecke	Chainman.
A.H.Rock	Chainman
Delbert Bowers,	Moundman.
W.T.Muse	Axman.
Freemen Bowers	Axman.
Ralph Labrum	Flagman.

For preliminary affidavits see book "H" T.2 N.R.8 W.

C—151

Volume
#
R0311

BOOK A-311

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

_____

_____

SUBDIVISIONS OF T.3 N.,R.8 W.

CHAINS	
	SURVEY commenced June 21,1904,and executed with the instrument described in book "G" of this survey.
	I know the instrument to be in adjustment from recent observations made June 14,and recorded in book "I" of this survey.
	At 8h a.m.,l.m.t.,I set off 40°37'N.on the lat.arc;23°28' N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.1-2-35 and 36,heretofore described on the S.bdy.of the Tp.
	Thence I run
	N.0°01'W.,bet.secs.35 and 36.
	Over mountainous land descend through heavy pine timber.
25.00	Begin abrupt descent bearing E.and W.
40.00	Set a sandstone,18x8x4 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pine,10 ins.diam.,bears N.71°E.,26 lks.dist., marked $\frac{1}{4}$ S 36 B T.
	A pine,13 ins.diam.,bears S.80°W.,23 lks.dist., marked $\frac{1}{4}$ S 35 B T.
42.75	Creek,10 lks.wide,4 ins.deep,in bottom of gulch at mouth,400 ft.deep,course E.
	Begin gradual ascent.
43.50	Begin gradual descent.
45.50	West Fork of Rock Creek 50 lks.wide,in bottom of canon 400 ft.deep,course SE.
	Ascend.
80.00	Set a sandstone,12x10x8 ins.,8 ins.in the ground,for cor.of secs.25-26-35 and 36,marked with 1 notch on the S.and E.edges;from which
	A pine,13 ins.diam.,bears N.65°E.,26 lks.dist., marked T 3 N R 8 W S 25 B T.
	A pine,7 ins.diam.,bears S.44°E.,15 lks.dist , marked T 3 N R 8 W S 36 B T.
	A pine,6 ins.diam.,bears S.35°W.,20 lks.dist., marked T 3 N R 8 W S 35 B T.

CHAINS	
	A pine,6 ins.diam.,bears N.75°W.,30 lks.dist., marked T 3 N R 8 W S 26 B T.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 80.00 chs.

	S.89°50½E.,on a random line bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
80.12	Intersect E.bdy.of the Tp.,5 lks.S.of the cor.of secs. 25-30-31 and 36,which is a granite stone 4x6x8 ~~ins.~~ ins.above ground,marked and witnessed as described by Washington Jenkins,D.S.,under his cont.,No.275
	Thence I run
	N.89°52'W.,on a true line bet.secs.25 and 36.
	Over mountainous land through heavy pine timber
	Descend.
7.00	Creek 10 lks.wide,course SE.;ascend.
40.06	Set a sandstone,14x12x6 ins.,9 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine,10 ins.diam.,bears N.14°E.,16 lks.dist., marked ¼ S 25 B T.
	A pine,8 ins.diam.,bears S.45°W.,25 lks.dist., marked ¼ S 36 B T.
43.00	Top of spur projects SE.
	Descend.
60.00	Bottom of hollow,100 ft.deep,course S.
	Ascend.
80.12	The cor.of secs.25-26-35 and 36.
	Land,mountainous.
	Soil,rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous land and heavily timbered land on 80.12 chs.

CHAINS

June 21:At this cor.,I set off 23°27'N.on the decl.arc: and at 0 h 01m p.m.,l.m.t.,observe the sun on the meridian: the resulting lat.is 40°38'N.

N.0°01'W.,bet.secs.25 and 26.

Ascend abruptly over mountainous land through heavy pine timber.

8.00 Top of spur projects SW.

Descend.

40.00 Set a sandstone,14x8x6 ins.,9 ins.in the ground,for ¼ sec.cor.,marked-¼ on W.face;from which

A pine,12 ins.diam.,bears S.37°E.,29 lks.dist., marked ¼ S 25 B T.

A pine,10 ins.diam.,bears S.25°W.,18 lks.dist., marked ¼ S 26 B T.

80.00 Set a sandstone,24x16x8 ins.,18 ins.in the ground,for cor.of secs.23-24-25 and 26,marked with 2 notches on the S.and 1 notch on the E.edge;from which

A pine,7 ins.diam.,bears N.58°E.,9 lks.dist., marked T 3 N R 8 W S 24 B T.

A pine,8 ins.diam.,bears S.49°E.,22 lks.dist., marked T 3 N R 8 W S 25 B T.

A pine,5 ins.diam.,bears S.37°W.,29 lks.dist., marked T 3 N R 8 W S 26 B T.

A pine,12 ins.diam.,bears N.75°W.,7 lks.dist., marked T 3 N R 8 W S 23 B T.

Land,mountainous.

Soil;rocky,3rd and 4th rate.

Timber,pine.

Mountainous and heavily timbered land on 80.00 chs.

CHAINS	
	S.89°52'E.on a random line bet.secs.24 and 25.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.88	Intersect E.bdy.of the Tp.,7 lks.S.of the cor.of secs. 19-24-25 and 30,which is a granite rock in place 3x2x1 ft.aboye ground,marked and witnessed as described by Deputy Washington Jenkins under his contract No.275;
	Thence I run
	N.89°55'W.,on a true line
	bet.secs.24 and 25.
	Ascend over mountainous land through heavy pine timber.
39.94	Set a sandstone,15x10x6 ins.,10 ins in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	A pine,10 ins.diam.,bears N.50°W.,22 lks.dist., marked $\frac{1}{4}$ S 24 B T.
	A pine,6 ins.diam.,bears S.8°E.,12 lks.dist., marked $\frac{1}{4}$ S 25 B T.
46.50	Top of ridge bears NE.and SW.
	Descend.
79.88	The cor.of secs.23-24-25 and 26.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 79.88 chs.
	June 21,1904.

	June 22:At 8 h .am.,l.m.t.,I set off 40°39'N.,on the lat.arc;23°28'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.23-24-25 and 26.
	Thence I runN.0°01'W.,bet.secs.23 and 24.
	Descend over mountainous land th rough heavy pine timber.
36.00	Bottom of gulch,300 ft.deep,course SW.
	Ascend.

SUBDIVISIONS OF T.3 N.,R.8 W.

CHAINS	
40.00	Set a sandstone,16x8x8 ins.,11 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which A pine,6 ins.diam.,bears N.50°E.,35 lks.dist., marked $\frac{1}{4}$ S 24 B T. A pine,8 ins.diam.,bears N.42°W.,70 lks.dist., marked $\frac{1}{4}$ S 23 B T.
74.00	Top of spur projects SW.
	Descend. Leave timber.
80.00	Set a sandstone,20x6x6 ins.,15 ins.in the ground,for cor.of secs.13-14-23 and 24,marked with 3 notches on the S.and 1 notch on the E.edge;and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.00 chs.

	S.89°55'E.on a random line bet.secs.13 and 24.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.92	Intersect E.bdy.of the Tp.,12 lks.N.of the cor.of secs. 13-18-19 and 24,which is a sandstone,6 x10x 6 ins., above ground,marked and witnessed as described by Washington Jenkins,D.S.,under his contract No.275.
	Thence I run N.89°50'W.,on a true line bet.secs.13 and 24.
	Over mountainous land ascend through heavy pine timber.
37.00	Top of ridge bears N.and S.
	Descend. Leave timber.
39.96	Set a sandstone,18x11x5 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of

CHAINS	
	stone,2 ft.base,1½ ft.high,N.of cor.
52.00	Bottom of gulch,200 ft.deep,course SW.
	Ascend.
75.00	Top of ridge bears NE.and SW.
	Descend.
79.92	The cor.of secs.13-14-23 and 24.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 79.92 chs.
	June 22:At this cor.,I set off 23°27'N.on the decl.arc; and at 0h 02m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 40°39'N.
	N.0°01'W.,bet.secs.13 and 14.
	Over mountainous land descend over heavy slide rock.
33.00	Bottom of hollow,100 ft.deep,course SW. Ascend.
40.00	Point for ¼ sec.cor.,falls on a sandstone boulder,36x30x 8 ins.,above ground;cut a cross (x) at exact cor.point for ¼ sec.cor.,marked ¼ on W.side of cross;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
80.00	Set a sandstone,15x10x6 ins.,10 ins.in the ground,for cor.of secs.11-12-13 and 14,marked with 4 notches on the S.and 1 notch on the 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 on 80.00 chs.

CHAINS	
	S.89°50'E.on a random line bet.secs.12 and 13.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.06	Intersect E.bdy.of the Tp.,5 lks.N.of the cor.of secs. 7-12-13 and 18,which is a sandstone,10 x 6 x 5 ins.above ground,marked and witnessed as described by Washington Jenkins,D.S.,under his contract No.375.
	Thence I run
	N.89°48'W.,on a true line
	bet.secs.12 and 13.
	Ascend abruptly over rocky land through heavy pine timber.
30.00	Leave timber.
49.03	Set a sandstone,18x8x6 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
53.00	Top of ridge bears NW.and SE.
	Descend.
64.00	Begin more abrupt descent.
78.00	Top of perpendicular sandstone cliffs bearing NW.and SE.
	Descend gradually.
80.06	The cor.of secs.11-12-13 and 14.
	Mountainous land.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.06 chs.
	June 22,1904.

	June 23:At 8h a.m.,l.m.t.,I set off 40°40'N.on the lat. arc;23°27'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.11-12-13 and 14.
	Thence I run

CHAINS	
	N.0°01'W.,bet.secs.11 and 12.
	Over mountainous land,ascend over heavy rock slide.
3.00	Perpendicular sandstone cliffs bear NW.and SE.
	Continue ascent along the west slope of high mountain ridge.
40.00	Set a sandstone,22x12x8 ins.,16 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
80.00	Set a sandstone,36x10x4 ins.,27 ins.in the ground,for cor.of secs.1-2-11 and 12,marked with 5 notches on the S.and 1 notch on the E.edge;and raise a mound of stone, 2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil;rocky,4th rate.
	No timber.
	Mountainous land on 80.00 chs.

	S.89°48'E.on a random line bet.secs.1 and 12.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.10	Intersect E.bdy.of the Tp.,23 lks.S.of the cor.of secs.1-6-7 and 12,which is a sandstone,10 x 8 x 5 ins.above ground,marked and witnessed as described by Washington Jenkins,D.S.,under his cont.,No.275.
	Thence I run
	N.89°58'W.,on a true line bet.secs.1 and 12
	Descending along S.slope of spur projecting SE.
	Over mountainous land through heavy pine timber;
38.50	Head of gulch drains S.E.;ascend.
40.05	Set a sandstone,18x9x7 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	A pine,14 ins.diam.,bears N.87°E.,15 lks.dist.,

CHAINS	
	marked $\frac{1}{4}$ S 1 B T.
	A pine,20 ins.diam.,bears S.76°W.,25 lks.dist.,
	marked $\frac{1}{4}$ S 12 B T.
	Begin more abrupt ascent.
47.50	Leave timber.
74.00	Top of rocky ridge bears NW.and SE.
	Descend.
80.10	The cor.of secs.1-2-11 and 12.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.10 chs.
	June 23:At this cor.,I-set-off 23°27'N.on the decl. arc;and at 0h 02m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 40°41'N.

	N.0°01'W.,on a random line bet.secs.1 and 2.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.86	Intersect N.bdy.of the Tp.,5 lks.E.of the cor.of secs. 1-2-35 and 36,heretofore described.
	Thence I run
	S.0°03'E.,on a true line
	bet.secs.1 and 2.
	Descend over mountainous land through scattering pines.
4.00	Spring branch,5 lks.wide,2 ins.deep,in bottom of hollow,100 ft.deep,course NE.
	Ascend.
20.00	Leave scattering pine timber.
	Continue ascent,over very loose slide rock.
39.86	Point for $\frac{1}{4}$ sec.cor.,falls on loose slide rock and cannot be set.
46.85	Top of high rocky spur projects E.

CHAINS	
	Set a sandstone,22x12x8 ins.,16 ins.in the ground,for witness cor.to ¼ sec.cor.,marked W C ¼ on W.face; and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Thence along top of mountain.
	Ascend.
60.00	Top of ridge bears NW.and SE.
	Descend.abruptly over rock slide.
79.86	The cor.of secs.1-2-11 and 12.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 79.86 chs.

June 23,1904.

June 24: At 7h a.m.,l.m.t.,I set off 40°37'N.on the lat. arc;23°27'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.34 and 35,on the S. bdy.of the Tp.,heretofore described.

Thence I run

N.0°02'W.,bet.secs.34 and 35.

	Descend through scattering pine timber.
7.00	South shore of lake,area about 5 acres,bears NE.and SW,
	To pass lake,I offset as follows:
	N.89°58'E.,4.00 chs.,
	N.0°02'W.,on the offset line,7.00 chs.to
14.00	S.89°58'W.,4.00 chs.to true line.
	N.shore of lake bears E.and SW.
24.00	Creek,10 lks.wide,4 ins.deep,in bottom of hollow,100 ft.deep,course E.
	Ascend.
36.50	Top of mesa.land bears NE.and SW.

CHAINS

Begin gradual ascent over mesa.

40.00 Set a sandstone,24x8x6 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.hihg,W.of cor.

Pits impracticable.

57.00 Leave mesa,bearing E.and W.

Descend,over slide rock. Leave timber.

72.00 Leave slide rock. Enter heavy pine timber,bearing E.and W.

75.00 South Fork of Rock Creek 50 lks.wide,in bottom of canon 300 ft.deep,course SE.

Begin abrupt ascent.

80.00 Set a sandstone,18x13x8 ins.,12 ins.in the ground,for cor.of secs.26-27-34 and 35,marked with 2 notches on the N.and 1 notch on the S.edge;from which

A pine,10 ins.diam.,bears N.42°W.,8 lks.dist., marked T 3 N.R 8 W S 27 B T.

A pine,8 ins.diam.,bears N.71°E.,28 lks.dist., marked T 3 N R 8 W S 26 B T.

A pine 8 ins.diam.bears S.4°E.30 lks.dist. marked T 3 N R 8 W S 35 B T.

A pine,10 ins.diam.,bears S.25°W.,35 lks.dist., marked T 3 N R 8 W S 34 B T.

Land,mountainous.

Soil;rocky,3rd and 4th rate.

Timber pine

Mountainous or heavily timbered land on 80.00 chs.

S.89°50'E.on a random line bet.secs.26 and 35.

40.00 Set temp.¼ sec.cor.

79.98 Intersect N.and S.line,9 lks.S.of the cor.of secs. 25-26-35 and 36.

Thence I run

N.89°54'W.,on a true line bet.secs.26 and 35.

CHAINS	
	Descend over mountainous land through heavy pine timber.
5.00	Top of spur projects SW.
	Descend.
16.00	Creek,30 lks.wide,8 ins.deep,in bottom of canon,350 ft. deep,course S.
	Begin abrupt ascent.
27.00	Top of spur projects SE.
	Descend.
39.99	Set a sandstone,22x12x4 ins.,16 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine,12 ins.diam.,bears N.4°E.,27 lks.dist., marked ¼ S 26 B T.
	A pine,18 ins.diam.,bears S.51°W.,17 lks.dist., marked ¼ S 35 B T.
79.98	The cor.of secs.26-27-34 and 35.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 79.98 chs.

	N.0°02'W.,bet.secs.26 and 27.
	Ascend over mountainous land through heavy pine timber.
20.00	Top of ridge bears NW.and SE.
	Descend.
	Leave pine timber.
40.00	Set a sandstone,24x16x14 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.
63.50	Creek,20 lks.wide,8 ins.deep,in bottom of canon, 300 ft.deep,course SE.
	Ascend.
80.00	Set a sandstone,24x10x8 ins.,18 ins.in the ground,for cor.of secs.22-23-26 and 27,marked with 2 notches on the S.and E.edges;and raise a mound of stone,2 ft.base,

CHAINS	
	1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.00 chs.
	June 24:At this cor.,I set off 23°26'N.on the decl.arc;
	and at 0h 02m p.m.,l.m.t.,observe the sun on the meridian;
	the resulting lat.is 40°39'N.

	S.89°54'E.on a random line bet.secs.23 and 26.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,7 lks.S.of the cor.of secs.
	23-24-25 and 26,
	Thence I run
	N.89°57'W.,on a true line
	bet.secs.23 and 26.
	Descend over mountainous land through heavy pine timber.
40.01	Set a sandstone,20x10x5 ins.,15 ins.in the ground,for
	¼ sec.cor.,marked ¼ on N.face;from which
	A pine,8 ins.diam.,bears N.22°W.,23 lks.dist.,
	marked ¼ S 23 B T.
	A pine,10 ins.diam.,bears S.2°E.,7 lks.dist.,
	marked ¼ S 26 B T.
49.50	Creek,20 lks.wide,8 ins.deep,in bottom of canon,300 ft.
	deep,course SE.
	Begin abrupt ascent.
75.00	Top of spur projects SE.
	Descend. Leave timber.
80.02	The cor.of secs.22-23-26 and 27.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.

CHAINS	
	Mountainous or heavily timbered land on 80.02 chs.
	June 24,1904.

	June 25:At 7h a.m.,l.m.t.,I set off 40°39'N.on the lat. arc;23°25'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.22-23-26 and 27.
	Thence I run
	N.0°02'W.,bet.secs.22 and 23.
	Ascend over mountainous land .
12.50	Top of spur projects SE.
	Descend. Enter heavy pine timber,bearing NW.and SE.
40.00	Set a sandstone,17x12x10 ins.,11 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pine,9 ins.diam.,bears N.65°E.,11 lks.dist., marked $\frac{1}{4}$ S 23 B T.
	A pine,10 ins.diam.,bears S.73°W.,9 lks.dist., marked $\frac{1}{4}$ S 22 B T.
67.00	Creek,15 lks.wide,5 ins.deep,in bottom of gulch,200 ft. deep,course SE.
	Ascend.
80.00	Set a sandstone,22x12x5 ins.,16 ins.in the ground,for cor.of secs.14-15-22 and 23,marked with 3 notches on the S.and 2 notches on the E.edge;from which
	A pine,12 ins.diam.,bears N.33°E.,25 lks.dist., marked T 3 N R 8 W S 14 B T.
	A pine,14 ins.diam.,bears S.78½°E.,6 lks.dist., marked T 3 N R 8 W S 23 B T.
	A pine,16 ins.diam.,bears S.42°W.,1.22 chs.dist., marked T 3 N R 8 W S 22 B T.
	A pine,10 ins.diam.,bears N.24°W.,13 lks.dist., marked T 3 N R 8 W S 15 B T.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.

CHAINS	
	Mountainous or heavily timbered land on 80.00 chs.
	m
	S.89°57'E.on a random line bet.secs.14 and 23.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.20	Intersect N.and S.line,3 lks.N.of the cor.of secs. 13-14-23 and 24.
	Thence I run
	N.89°56'W.,on a true line
	bet.secs.14 and 23.
	Descend over mountainous land.
21.75	Spring branch,4 lks.wide,2 ins.deep,in bottom of hollow, 100 ft.deep,course SE.
	Ascend.
32.00	Descend.
	Enter heavy pine timber,bearing N.and S.
40.10	Set a sandstone,18x11x6 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	A pine,7 ins.diam.,bears N.27°E.,9 lks.dist., marked $\frac{1}{4}$ S 14 B T.
	A pine,14 ins.diam.,bears S.22°W.,13 lks.dist., marked $\frac{1}{4}$ S 23 B T.
48.50	Creek,15 lks.wide,6 ins.deep,in bottom of canon,300 ft. deep,course S.
	Begin abrupt ascent.
64.50	Top of spur projects S.
	Descend.
80.20	The cor.of secs.14-15-22 and 23.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 80.20 chs.
	June 25:At this cor.,I set off 23°24'N.on the decl.arc; and at 0h 02m p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 40°39'N.

CHAINS	
	N.0°02'W.,bet.secs.14 and 15.
	Ascend over mountainous land,through heavy pine timber.
28.00	Top of ridge bears NW.and SE.
	Descend.
	Leave timber
40.00	Set a sandstone,20x12x6 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
55.50	Creek,10 lks.wide,4 ins.deep,in bottom of canon, 200 ft.deep,course SE.
	Ascend,along the east side of canon.
80.00	Set a sandstone,20x14x8 ins.,15 ins.in the ground for cor.of secs.10-11-14 and 15,marked with 4 notches on the S.and 2 notches on the E.edge;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 on 80.00 chs.

	S.89°56'E.on a random line bet.secs.11 and 14.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N.and S.line,9 lks.N.of the cor.of secs. 11-12-13 and 14.
	Thence I run
	N.89°52'W.,on a true line bet.secs.11 and 14.
	Descend gradually over rocky land.
40.04	Set a sandstone,22x12x8 ins.,16 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.
80.08	The cor.of secs.10-11-14 and 15.

CHAINS	
	Land, mountainous.
	Soil; rocky, 3rd and 4th rate.
	Timber, pine.
	Mountainous or heavily timbered land on 80.08 chs.
	June 25, 1904.

	June 26: At 7h a.m., l.m.t., I set off 40°40'N. on the lat. arc; 23°24'N. 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., bet. secs. 10 and 11.
	Descend over mountainous land along the east side of canon.
11.50	Creek, 6 lks. wide, 4 ins. deep, in bottom of canon, 200 ft. deep, course SW.
	Ascend.
30.00	Top of spur projects SE
	Descend.
40.00	A lake, area about 6 acres, bears E., 7.00 chs. dist.
	Set a sandstone, 18x10x7 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.
60.00	S. shore of small lake, area about 4½ acres, bears E. and W.
	To pass lake, offset as follows:
	N.89°58'E., 6.00 chs.,
	N.0°02'W., on offset line, 6.00 chs., to
66.00	S.89°58'W., 6.00 chs. to true line.
	N. shore of lake, bears NW. and SE.
	Ascend.
71.00	Perpendicular sandstone cliffs bear NW. and SE.
	Begin more abrupt ascent.
80.00	Set a sandstone, 24x15x4 ins., 18 ins. in the ground, for cor. of secs. 2-3-10 and 11, marked with 2 notches on the E. and 5 notches on the S. edges; and raise a mound of

CHAINS	
	stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,none.
	Mountainous land on 80.00 chs.

	S.89°52'E.on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,7 lks.S.of the cor.of secs. 1-2-11 and 12.
	Thence I run
	N.89°55'W.,on a true line
	bet.secs.2 and 11.
	Descend abruptly over slide rock.
23.00	Begin more gradual descent.
39.98	Set a sandstone,18x9x5 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.
79.96	The cor.of secs.2-3-10 and 11.
	Land,mountainous.
	Soil;rocky,4th rate.
	No timber.
	Mountainous land on 79.96 chs.
	June 26:At this cor.,I set off 23°22'N.on the decl.arc; and at 0h 03m p.m.,l.m.t.,observe the sun on the meridian; the resulting lat.is 40°41'N.

	N.0°02'W.,on a random line bet.secs.2 and 3.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.bdy.of the Tp.,7 lks.W.of the cor.of secs. 2-3-34 and 35,heretofore described.
	Thence I run

CHAINS	
	S.0°01'W., on a true line
	bet. secs. 2 and 3.
	On top of plateau descend gradually through heavy pine timber.
3.00	Leave timber.
40.02	Set a sandstone, 30x14x3 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
52.50	Leave plateau.
	Descend abruptly over slide rock.
65.00	Begin more gradual descent.
80.02	The cor. of secs. 2-3-10 and 11.
	Land, mountainous.
	Soil; rocky, 4th rate.
	Timber, pine.
	Mountainous or heavily timbered land on 80.02 chs.
	June 26, 1904.

	June 27: At 7h a.m., l.m.t., I set off 40°37'N. on the lat. arc; 23°21'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3-4-33 and 34, on the S. bdy. of the Tp., heretofore described.
	Thence I run
	N.0°02'W., bet. secs. 33 and 34.
	Ascend gradually over bench over rocky land.
40.00	Point for ¼ sec. cor., falls on a sandstone boulder, 6x 4x1 ft. above ground; cut a cross (x) at exact cor. point, for ¼ sec. cor., marked ¼ on W. side of cross; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
62.00	Leave bench.
	Descend.
	Enter heavy pine timber, bearing E. and W.

CHAINS	
80.00	Set a sandstone,18x8x4 ins.,12 ins.in the ground,for cor.of secs.27-28-33 and 34,marked with 1 notch on the S.and 3 notches on the E.edge;from which A pine,24 ins.diam.,bears N.31°E.,68 lks.dist., marked T 3 N R 8 W S 27 B T. A pine,8 ins.diam.,bears S.23°E.,12 lks.dist., marked T 3 N R 8 W S 34 B T. A pine,8 ins.diam.,bears S.61°W.,50 lks.dist., marked T 3 N R 8 W S 33 B T. A pine,12 ins.diam.,bears N.67°W.,12 lks.dist., marked T 3 N R 8 W S 28 B T. Land,mountainous. Soil;rocky,3rd and 4th rate. Timber,pine. Mountainous or heavily timbered land on 80.00 chs.

	S.89°50'E.on a random line bet.secs.27 and 34.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.18	Intersect N.and S.line,19 lks.S.of the cor.of secs. 26-27-34 and 35. Thence I run N.89°58'W.,on a true line bet.secs.27 and 34. Descend over mountainous land through heavy pine timber.
12.00	West Fork of Rock Creek,50 lks. wide,in bottom of canon 350 ft.deep,course SE.from the west. Ascend along bottom of canon.
29.00	Leave bottom of canon,course E.from the NW. Same creek,50 lks.wide,11 ins.deep,course E.from the NW. Ascend along the south side of canon.
40.09	Set a sandstone,22x12x4 ins.,16 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which A pine,12 ins.diam.,bears N.4°E.,6 lks.dist., marked $\frac{1}{4}$ S 27 B T.

CHAINS	
	A pine,18 ins.diam.,bears S.51°W.,17 lks.dist., marked ¼ S 34 B T.
80.18	The cor.of secs.27-28-33 and 34.
	Land,mountainous.
	Soil:rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 80.18 chs.
	June 27:At this cor.,I set off 23°20'N.on the decl.arc; and at 0h 03m p.m.,l.m.t.,observe the sun on the meridian; the resulting lat.is 40°38'N.

	N.0°02'W.,bet.secs.27 and 28.
	Descend.over mountainous land through heavy pine timber.
12.00	West Fork of Rock Creek 40 lks.wide,in bottom of canon 300 ft.deep,course E.
	Begin abrupt ascent.
21.00	Begin more gradual ascent.
38.75	Top of ridge bears NW.and SE. Descend.
40.00	Set a sandstone,28x10x4 ins.,21 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;
	from which
	A pine,18 ins.diam.,bears S.89°E.,17 lks.dist., marked ¼ S 27 B T.
	A pine,16 ins.diam,bears N.47°W.,45 lks.dist., marked ¼ S 28 B T.
62.10	Creek,10 lks.wide,3 ins.deep,in bottom of hollow,100 ft.deep,course,E.to a lake,area about 10 acres,bearing E.,1.00 ch.from line.
	Ascend.
	Leave timber.
80.00	Set a sandstone,26x14x4 ins.,19 ins.in the ground,for cor.of secs.21-22-27 and 28,marked with 2 notches on the S.and 3 notches on the E.edge;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

CHAINS	
	Pits impracticable.
	Land, mountainous.
	Soil; rocky, 3rd and 4th rate.
	Timber, pine.
	Mountainous or heavily timbered land on 80.00 chs.

	S.89°58'E. on a random line bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.86	Intersect N. and S. line, 19 lks. N. of the cor. of secs. 22-23-26 and 27,
	Thence I run
	N.89°50'W. on a true line
	bet. secs. 22 and 27.
	Descend over mountainous land.
21.10	Creek, 20 lks. wide, 6 ins. deep, in bottom of canon, 300 ft. deep, course SE.
	Ascend.
39.93	Set a sandstone, 22x6x4 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
51.50	Descend.
63.55	Creek, 10 lks. wide, 4 ins. deep, in bottom of hollow, 150 ft. deep, course NE.
	Ascend.
79.86	The cor. of secs. 21-22-27 and 28.
	Land, mountainous.
	Soil; rocky, 3rd and 4th rate.
	No timber.
	Mountainous land on 79.86 chs.
	June 27, 1904.

CHAINS	
	June 28:At 7h a.m.,l.m.t.,I set off 23°19'N.on the decl.arc;40°39'N.on the lat.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.,bet.secs.21 and 22.
	Ascend over mountainous and rocky land.
18.00	Top of spur projects E.
	Descend.
40.00	Set a sandstone,16x10x6 ins.,11 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
47.30	Creek,15 lks.wide,7 ins.deep,in bottom of small canon, 200 ft.deep,course SE.
80.00	At junction of spur,projecting,NE.,SE.,and SW. Point for cor.falls on a sandstone boulder in place, 4x3x2 ft.above ground;cut a cross (X) at exact cor.point for cor.of secs.15-16-21 and 22,marked
	3 N on N.E.
	8 W on SE,with 3 grooves on the S.and E.sides of cross;and raise a mound of stone,2 ft.base,1½ ft.high, W.of cor.
	Pits impractic ble.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	No timber.
	Mountainous land on 80.00 chs.

	S.89°50'E.on a random line bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,7 lks.S.of the cor.of secs. 14-15-22 and 23.
	Thence I run

CHAINS	
	N.89°53'W.,on a true line.
	bet.secs.15 and 22.
	Descend over rocky mountainous land,through heavy pines.
4.00	Creek,15 lks.wide,6 ins.deep,in bottom of hollow,100 ftdeep,course S.
	Ascend.
36.00	Top of ridge bears NW.and SE.
	Descend.
40.05	Set a sandstone,18x8x6 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine,10 ins.diam.,bears N.46°E.,31 lks.dist., marked ¼ S 15 B T.
	A pine,12 ins.diam.,bears S.11°W.,9 lks.dist., marked ¼ S 22 B T.
60.20	East shore of small lake,area about 4 acres,bears NW. and SE.
	To pass lake,offset as follows:
	N.,3.00 chs.
	N.89°53'W.,on offset line,5.05 chs.,to
65.25	S.,3.00 chs.to true line.
	West shore of lake bears NE.and SW.
69.30	Creek,5 lks.wide,2 ins.deep,in bottom of hollow,100 ft. deep,course S.
	Ascend.
	Leave timber.
80.10	The cor.of secs.15-16-21 and 22.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.10 chs.
	June 28:At this cor.,I set off 23°17'N.on the decl.arc; and at 0h 03 m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 40°39'N.

CHAINS	
	N.0°02'W., bet.secs.15 and 16.
	Descend over rocky land.
30.00	S.shore of small lake, area about 3 acres, bears E.and W.
	To pass lake, offset as follows:
	W., 3.50 chs.,
	N.0°02'W., on off set line, 3.55 chs.to
33.55	E., 3.50 chs.to true line
	N.shore of lake bears E.and W. Ascend.
	Enter heavy pine timber, bearing E.and W.
40.00	Set a sandstone, 20x10x8 ins., 15 ins.in the ground, for ¼ sec.cor., marked ¼ on W.face; from whcih
	A pine, 9 ins.diam., bears N.68°E., 26 lks.dist., marked ¼ S 15 B T.
	A pine, 10 ins.diam., bears N.63°W., 11 lks.dist., marked ¼ S 16 B T.
63.00	Leave timber.
80.00	Set a sandstone, 18x10x7 ins., 12 ins.in the ground, for cor.of secs.9-10-15 and 16, marked with 4 notches on the S.and 3 notches on the E.edge; 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 on 80.00 chs.

	S.89°53'E. on a random line bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
79.90	Intersect N.and S.line, 9 lks.S.of the cor.of secs. 10-11-14 and 15.
	Thence I run
	N.89°57'W., on a true line
	bet.secs.10 and 15.
	Descend over rocky land.

CHAINS	
10.50	Creek,6 lks.wide,3 ins.deep,in bottom of canon,200 ft. deep,course S.
	Ascend.
13.50	Descend.
16.40	Spring branch.4 lks.wide,2 ins.deep,at mouth of hollow, course SE.
	Ascend.
39.95	Set a sandstone,20x9x7 ins.,15 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
57.00	Top of ridge bears N.and S.
	Descend.
79.90	The cor.of secs.9-10-15 and 16.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	No timber.
	Mountainous land on 79.90 chs.
	June 28,1904.
	June 29:At 7h a.m.,l.m.t.,I set off 40°40'N.on the lat. arc;23°16'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°02'W.,bet.secs.9 and 10.
	Ascend over rock slide.
21.25	Top of ridge bears NE.and SW.
	Descend. Enter heavy pine timber,bearing NE.and SW.
40.00	Set a sandstone,18x10x7 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pine,24 ins.diam.,bears N.52E.,13 lks.dist., marked $\frac{1}{4}$ S 10 B T.
	Pine,26 ins.diam.,bears N.85°W.,21 lks.dist., marked $\frac{1}{4}$ S 9 B T.
54.00	Bottom of hollow,100 ft.deep,course SW.

CHAINS	
	Ascend.
	Leave timber.
80.00	Set a sandstone,17x8x6 ins.,11 ins.in the ground,for cor.of secs.3-4-9 and 10,marked with 5 notches on the S.and 3 notches on the E.edge;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 on 80.00 chs.

	S.89°57'E.on a random line bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,5 lks.S.of the cor.of secs. 2-3-10 and 11.
	Thence I run
	N.89°59'W.,on a true line
	bet.secs.3 and 10.
	Ascend over rocky land.
40.02	Set a sandstone,18x12x8 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
42.50	Top of ridge bears N.and S.
	Descend.
60.00	Bottom of hollow,100 ft.deep,course SW.
	Ascend.
80.04	The cor.of secs.3-4-9 and 10.
	Land,mountainous.
	Soil:rocky,3rd and 4th rate.
	No timber.
	Mountainous land on 80.04 chs.

CHAINS	
	June 29:At this cor.,I set off 23°14'N.on the decl.arc; and at 0h 03 m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 40°41'N.

	N.0°02'W.,on a random line bet.secs.3 and 4.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.bdy.of the Tp.,5 lks.W.of the cor.of secs. 3-4-33 and 34,heretofore described.
	Thence I run
	South on a true line
	bet.secs.3 and 4.
	Ascend over mountainous land.
39.96	Set a sandstone,38x26x20 ins.,28 ins.in the ground,for ¼ sec.cor.,marked ¼on W.face;and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
69.00	Top of ridge bears NE.and SW.
	Descend.
79.96	The cor.of secs.3-4-9 and 10.
	Land,mountainous.
	Soil;rocky,4th rate.
	No timber.
	Mountainous land on 79.96 chs.
	June 29,1904.

	June 30:At 7h a.m.,l.m.t.,I set off 40°37'N.on the lat. arc;23°13'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.4-5-32 and 33,here tofore described on the S.bdy.of the Tp.
	Thence I run
	N.0°03'W.,bet.secs.32 and 33.
	Ascend over mountainous land through heavy pine timber.
3.55	South shore of a small lake,area about 1½ acres,bears E.and NW.
9.10	North shore of lake,bears S.W.and SE.

CHAINS	
11.50	Top of low ridge bears E. and W. Descend.
20.25	Bottom of hollow, 100 ft. deep, course E. Ascend.
40.00	Set a sandstone, 14x8x5 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pine, 9 ins. diam., bears N. 3° E., 33 lks. dist., marked $\frac{1}{4}$ S 33 B T. A pine, 10 ins. diam., bears N. 60° W., 38 lks. dist., marked $\frac{1}{4}$ S 32 B T.
41.50	Top of low broad spur projects NE.
	Descend.
58.00	Creek, 30 lks. wide, 10 ins. deep, in bottom of gulch, 200 ft. deep, course NE.
	ascend.
80.00	On top of spur projecting SW. set a sandstone, 14x8x4 ins., 9 ins. in the ground, for cor. of secs. 28-29-32 and 33, marked with 1 notch on the S. and 4 notches on the W. edge; from which A pine, 12 ins. diam., bears N. 1° E., 35 lks. dist., marked T 3 N R 8 W S 28 B T. A pine, 9 ins. diam., bears S. 72° E., 20 lks. dist., marked T 3 N R 8 W S 33 B T. A pine, 14 ins. diam., bears West, 20 lks. dist., marked T 3 N R 8 W S 32 B T., on S. side of tree. " T 3 N R 8 W S 29 B T.," N. " " " Land, mountainous Soil; rocky, 3rd and 4th rate. Timber, pine, Mountainous and heavily timbered land on 80.00 chs.
	S. 89° 50' E. on a random line bet. secs. 28 and 33.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line, 14 lks. S. of the cor. of secs. 27-28-33 and 34.

CHAINS	
	Thence I run
	N.89°56'W., on a true line
	bet. secs. 28 and 33.
	Descend over rocky land through heavy pine timber.
40.05	Set a sandstone, 24x6x4 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A pine, 14 ins. diam., bears N.61°E., 10 lks. dist., marked ¼ S 28 B T.
	A pine, 13 ins. diam., bears S.25°W., 21 lks. dist., marked ¼ S 33 B T.
46.15	E. shore of lake, area about 7 acres, bears NE. and SW.
	To pass lake, offset as follows:
	N.43°E., 10.00 chs.,
	N.89°56'W., on offset line, 6.85 chs., to
	S.43°W. 10.00 chs. to true line.
53.00	W. shore lake bears NE. and SW.
	Ascend.
80.10	The cor. of secs. 28-29-32 and 33.
	Land, mountainous.
	Soil; rocky, 3rd and 4th rate.
	Timber, pine.
	Mountainous and heavily timbered, on 80.10 chs.
	June 30: At this cor., I set off 23°11'N. on the decl. arc; and at 0h 03 m p.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
	Descend over rocky land through heavy pine timber.
20.15	Bottom of hollow, 100 ft. deep, course SW.
	Ascend.
40.00	Point for ¼ sec. cor. falls on a sandstone rock in place, 24x24x12 ins. above ground; cut a cross (x) at exact cor. point, for ¼ sec. cor., marked ¼ on W. side of cross; from which
	A pine, 8 ins. diam., bears N.67°W., 17 lks. dist.,

CHAINS

marked $\frac{1}{4}$ S 29 B T.

A pine,14 ins.diam.,bears S.38°E.,28 lks.dist.,

marked $\frac{1}{4}$ S 28 B T.

45.80 Top of ridge bears E.and W.

Descend.

68.20 S.shore of lake,area about 5 acres,bears NW.and SE.

72.30 N.shore of lake,bears NE.and SW.

80.00 Set a sandstone,24x9x5 ins.,18 ins.in the ground,for cor.of secs.20-21-28 and 29,marked with 2 notches on the S.and 4 notches on the E.edge;from whcih

A pine,8 ins.diam.,bears N.3½°E.,82 lks.dist.,

marked T 3 N R 8 W S 21 B T.

A pine,15 ins.diam.,bears S.54°E.,43 lks.dist.,

marked T 3 N R 8 W S 28 B T.

A pine,24 ins.diam.,bears S.66½°W.,1.05 chs.dist.,

marked T 3 N R 8 W S 29 B T.

A pine,9 ins.diam.,bears N.60°W.,95 lks.dist.,

marked T 3 N R 8 W S 20 B T.

Land,mountainous.

Soil;rocky,3rd and 4th rate.

Timber,pine.

Mountainous and heavily timbered land on 80.00 chs.

S.89°56'E.on a random line bet.secs.21 and 28.

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

80.14 Intersect N.and S.line,9 lks.S.of the cor.of secs. 21-22-27 and 28.

Thence I run

West on a true line

bet.secs.21 and 28.

Descend over mountainous land.

26.50 E.shore of lake,area about 7 acres,bears NW.and S.

To pass lake offset as follows:

N.,5.00 chs.,

West on offset line,8.00 chs.to

CHAINS	
34.50	S.,5.00 chs.to true line
	W.shore of lake bears N.and S.
	Ascend. Leave timber.
40.07	Set a sandstone,22x6x4 ins.,16 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
51.00	Perpendicular sandstone ledge bears NW.and SE.
80.14	The cor.of secs.20-21-28 and 29.
	Land,mountainous.
	Soil:rocky,3rd and 4th rate.
	Timber ,pine.
	Mountainous or heavily timbered land on 80.14 chs.

	N.0°03'W.,bet.secs.20 and 21.
	Ascend over mountainous land through heavy pine timber.
11.50	Top of ridge bears E.and W.
	Descend.
28.75	Enter broad hollow,150 ft.deep,course E.
40.00	Leave hollow.
	Set a sandstone,20x9x6 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine,18 ins.diam.,bears S.72°E.,28 lks.dist., marked ½ S 21 B T.
	A pine,18 ins.diam.,bears S.75°W.,62 lks.dist., marked ¼ S 20 B T.
55.00	Top of spur projects E.
	Descend.
80.00	Set a sandstone,14x12x10 ins.,9 ins.in the ground,for cor.of secs.16-17-20 and 21,marked with 3 notches on the S.and 4 notches on the E.edge;from which
	A pine,12 ins.diam.,bears N.37°E.,25 lks.dist.,

CHAINS

marked T 3 N R 8 W S 16 B T.

A pine,13 ins.diam.,bears S.48°E.,78 lks.dist.,

marked T 3 N R 8 W S 21 B T.

A pine,12 ins.diam.,bears S.58°W.,1.17 chs.dist.,

marked T 3 N R 8 W S 20 B T.

A pine,8 ins.diam.,bears N.71°W.,1.40 chs.dist.,

marked T 3 N R 8 W S 17 B T.

Land,mountainous.

Soil:rocky,3rd and 4th rate.

Timber,pine.

Mountainous and heavily timbered land on 80.00 chs.

June 30,1904.

July 1:At 7h a.m.,l.m.t.,I set off 40°39'N.on the lat. arc;23°9'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.16-17-20 and 21.

Thence I run

N.on a random line bet.secs.16 and 21.

40.00 Set temp.¼ sec.cor.

80.80 Intersect N.and S.line,23 lks.S.of the cor.of secs. 15-16-21 and 22.

Thence

S.89°50'W.,on a true line

bet.secs.16 and 21.

Descend over rocky and broken land.

36.65 Enter bottom of canon,bearing NW.and SE.

Enter scattering pine timber.

40.10 Point for ¼ sec.cor.,falls on a sandstone rock in place 12x12x10 ins.above ground;cut a cross(x) at exact cor. point,for ¼ sec.cor.,marked ¼ on N.side of cross;and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.

CHAINS	
	Pits impracticable.
45.20	Creek,15 lks.wide,5 ins.deep,in bottom of canon,200 ft. deep,course SE.
55.00	Leave bottom of canon,bearing NW.and SE.
	Begin abrupt ascent.
80.20	The cor.of secs.16-17-20 and 21.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous land on 80.20 chs.

	N.0°03'W.,bet.secs.16 and 17.
	Descend over rocky land through heavy pine timber.
40.00	Point for ¼ sec.cor.,falls on a sandstone rock in place, 2x1x1 ft.above ground;cut a cross(x) at exact cor.point for ¼ sec.cor.,marked ¼ on W.side of cross;from which
	A pine,9 ins.diam.,bears N.58°E.,15 lks.dist marked ¼ S 16 B T.
	A pine,24 ins.diam.,bears S.33°W.,21 lks.dist., marked ¼ S 17 B T.
58.00	South shore of small lake,area about 8 acres,bears NE.and NW.
	To pass lake,offset as follows:
	W.,3.50 chs.,
	N.0°03'W.,on offset line,16.00 chs.to
74.00	E.,3.50 chs.to true line
	N.shore of lake bears E.and SW.
	Ascend.
80.00	Set a sandstone,14x10x7 ins,9 ins.in the ground,for cor.of secs.8-9-16 and 17,marked with 4 notches on the S.and E.edges;from which
	A pine,18 ins.diam.,bears N.49°E.,61 lks.dist.,

SUBDIVISIONS OF T.3 N.,R.8 W.

CHAINS

marked T 3 N R 8 W S 9 B T.

A pine,15 ins.diam.,bears S.12°E.,38 lks.dist.,

marked T 3 N R 8 W S 16 B T.

A pine,18 ins.diam.,bears S.48°W.,34 lks.dist.,

marked T 3 N R 8 W S 17 B T.

A pine,20 ins.diam.,bears N.64°W.,55 lks.dist.,

marked T 3 N R 8 W S 8 B T.

Land,mountainous. Soil:rocky,3rd and 4th rate. Timber pine. Mountainous and heavily timbered land on 80.00 ch..

July 1:At this cor.,I set off 23°7'N.on the decl.arc; and at 0 h 04m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 40°40'N.

N.89°50'E.on a random line bet.secs.9 and 16.

40.00 Set temp.¼ sec.cor.

80.22 Intersect N.and S.line,16 lks.N.of the cor.of secs. 9-10-15 and 16.

Thence I run

S.89°57'W.,on a true line bet.secs.9 and 16.

Descend over mountainous and rocky land.

7.50 Bottom of hollow,100 ft.deep,course SW.

Ascend. Enter heavy pine timber,bearing NE.and SW.

40.11 Set a sandstone,20x12x4 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼on N.face;from which

A pine,6 ins.diam.,bears N.74°E.,20 lks.dist., marked ¼ S 9 B T.

A pine,12 ins.diam.,bears S.33°W.,13 lks.dist., marked ¼ S 16 B T.

42.40 Top of ridge bears N.and S.

Descend.

75.00 Bottom of holloe,200 ft.deep,course SW.

Ascend.

80.22 The cor.of secs.8-9-16 and 17.

SUBDIVISIONS OF T.3 N.,R.8 W.

CHAINS	
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber pine.
	Mountainous or heavily timbered land on 80.22 chs.

	N.0°03'W.,bet.secs.8 and 9.
	On top of spur projecting SE.,
	Descend over rocky and mountainous land through heavy pine timber.
21.00	Ascend.
37.50	Top of ridge bears NE.and SW.
	Descend.
40.00	Set a sandstone,12x8x6 ins.,8 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pine,7 ins.diam.,bears N.53°E.,25 lks.dist., marked $\frac{1}{4}$ S 9B T.
	A pine,13 ins.diam.,bears N.79°W.,38 lks.dist., marked $\frac{1}{4}$ S 8 B T.
68.20	Spring branch,4 lks.wide,2 ins.deep,in bottom of hollow, 100 ft.deep,course NW.
	Ascend.
80.00	Set a sandstone,14x6x6 ins.,9 ins.in the ground,for cor.of secs.4-5-8 and 9,marked with 5 notches on the S. and 4 notches on the E.edge;from whcih
	A pine,12 ins.diam.,bears N.72°E.,38 lks.dist., marked T 3 N R 8 W S 4 B T.
	A pine,8 ins.diam.,bears S.79°E.,89 lks.dist., marked T 3 N R 8 W S 9 B T.
	A pine,12 ins.diam.,bears S.63°W.,22 lks.dist., marked T 3 N R 8 W S 8 B T.
	A pine,8 ins.diam.,bears N.25° W.,19 lks.dist., marked T 3 N R 8 W S 5 B T.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.

CHAINS	
	Timber,pine.
	Mountainous and heavily timbered land on 80.00 chs.
	July 1,1904.

	July 2:At 7h a.m.l.m.t.,I set off 40°41'N.on the lat. arc;23°5'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.4-5-8 and 9.
	Thence I run
	N.89°57'E.on a random line bet.secs.4 and 9.
80.10	Intersect N.and S.line,14 lks.N.of the cor.of secs. 3-4-9 and 10.
	Thence I run
	N.89°57'W.,on a true line
	bet.secs.4 and 9.
	Ascend abruptly over rock slide.
12.50	Top of ridge bears NE.and SW.
	Descend over rock slide.
31.00	Head of hollow,course N.
	Ascend through heavy pine timber,bearing N.and S.
40.05	Set a sandstone,16x10x4 ins.,11 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine,14 ins.diam.,bears N.58°W.,16 lks.dist., marked ¼ S 4 B T.
	A pine,26 ins.diam.,bears S.79°W.,41 lks.dist., marked ¼ S 9 B T.
52.30	Top of ridge bears NW.and SE.
	Descend.
80.10	The cor of secs.4-5-8 and 9.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.10 chs.

CHAINS	
	N.0°03'W.,on a random line bet.secs.4 and 5.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.bdy.of the Tp.,7 lks.E.of the cor.of secs. 4-5-32 and 33,heretofore described.
	Thence I run
	S.0°06'E.,on a true line
	bet.secs.4 and 5.
	Ascend through heavy pine timber over mountainous land.
38.00	Top of spur projects SW. Descend.
40.04	Set a sandstone,20x11x4 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine,12 ins.diam.,bears S.18°E.,40 lks.dist., marked ¼ S 4 B T.
	A pine,11 ins.diam.,bears N.63 °W.,16 lks.dist., marked ¼ S 5 B T.
59.50	Creek,20 lks.wide,10 ins.deep,in bottom of gulch,200 ft.deep,course SW.
	Ascend.
75.00	Top of spur projects W.
	Descend.
80.04	The cor.of secs.4-5-8 and 9.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 80.04 chs.
	July 2,1904.

July 3:At 7h a.m.,l.mt.,I set off 40°37'N.on the lat. arc;23°00'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs. 5-8-31 and 32,hereto fore described on the S.bdy.of the Tp.

Thence I run

CHAINS

N.0°04'W.,bet.secs.31 and 32.

Descend over rocky and mountainous land.

24.50 Bottom of hollow,100 ft.deep,course SE.

Ascend.

40.00 Set a sandstone,24x10x5 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.

47.00 Top of spur projects SE.

Descend over slide rock.

72.15 Bottom of hollow,200 ft.deep,course SE.

Ascend..

80.00 Set a sandstone,24x11x9 ins.,18 ins.in the ground,for cor.of secs.29-30-31 and 32,marked with 1 notch on the S.and 5 notches on the E.edge;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.

No timber.

Mountainous land on 80.00 chs.

S.89°50'E.on a random line bet.secs.29 and 32.

40.00 Set temp.¼ sec.cor.

79.94 Intersect N.and S.line,5 lks.S.of the cor.of secs. 28-29-32 and 33.

Thence I run

N.89°52'W.,on a true line

bet.secs.29 and 32.

Descend over mountainous land through heavy pine timber.

12.20 Bottom of hollow,100 ft.deep,course SW.

Ascend.

39.97 Set a sandstone,12x8x8 ins.,8 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which

A pine,9 ins.diam.,bears S.4°E.,11 lks.dist.,

CHAINS	
	marked $\frac{1}{4}$ S 32 B T.
	A pine,8 ins.diam.,bears N.16°W.,50 lks.dist.,
	marked $\frac{1}{4}$ S 29 B T.
55.00	Top of spur projects SE.
	Descend,over rock slide.
	Leave timber.
79.94	The cor.of secs.29-30-31 and 32.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate. Timber,pine.
	Mountainous or heavily timbered land on 79.94 chs.
	July 3:At this cor.,I set off 22°58'N.on the decl.arc;
	and at 0h 04m p.m.,l.m.t.,observe the sun on the meridi-
	an;the resulting lat.is 40°38'N.

	N.89°50'W.on a random line bet.secs.30 and 31.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.12	Intersect W.bdy.of the Tp.,12 lks.N.of the 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.
	Begin abrupt ascent over rock slide.
39.12	On top of high rocky ridge,bearing NE.and SW.,
	Set a sandstone,32x12x6 ins.,24 ins.in the ground,
	for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of
	stone,2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
	Descend.
72.50	Head of hollow,course SE.
	Ascend.
79.12	The cor.of secs.29-30-31 and 32.
	Land,mountainous.
	Soil;rocky,4th rate.
	No timber.

CHAINS	
	Mountainous land on 79.12 chs.

	N.0°04'W.,bet.secs.29 and 30.
	Over mountainous land ascend over rock slide.
29.30	Junction of spur,projecting SE.,with ridge bearing NE.and SW.
	Descend over rock slide along brow of the ridge.
40.00	Set a sandstone,19x8x5 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.
50.00	Ascend.
68.50	Top of ridge bears NW.and SE.
	Descend.
80.00	Point for cor.falls on a sandstone rock,4x3x3 ft.above ground;cut a cross(x)at exact cor.point,for cor.of secs. 19-20-29 and 30,marked with 2 grooves on the S.and 5 grooves on the E.side of cross;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 on 80.00 chs.
	July 3,1904.

	July 4:At 7h a.m.,l.m.t.,I set off 40°39'N.on the lat. arc;22°55'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.19-20-29 and 30.
	Thence I run
	S.89°52'E.on a random line bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,9 lks.S.of the cor.of secs.

CHAINS	
	20-21-28 and 29.
	Thence I run
	N.89°56'W., on a true line
	bet.secs.20 and 29.
	Ascend over mountainous land through heavy pine timber.
14.50	Top of spur projects SE.
	Descend.
33.00	Creek, 8 lks.wide, 6 ins.deep, in bottom of hollow, 150 ft. deep, course SE.
	Ascend.
	Leave timber.
40.01	Set a sandstone, 16x10x4 ins., 11 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, N.of cor.
	Pits impracticable.
55.00	Lake, area about 20 acres, bears N., 14.00 chs.dist.
	Begin more abrupt ascent over rock slide.
80.02	The cor.of secs.19-20-29 and 30.
	Land, mountainous.
	Soil; rocky, 3rd and 4th rate.
	Timber, pine.
	Mountainous or heavily timbered land on 80.02 chs.

	N.89°55'W., on a random line bet.secs.19 and 30.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.01	Intersect W.bdy.of the Tp., 12 lks.S.of the cor.of secs.19-24-25 and 30, heretofore described.
	Thence I run
	S.89°50'E., on a true line
	bet.secs.19 and 30.
	Descend over mountainous land.
16.00	Creek, 8 lks.wide, 4 ins.deep, in bottom of hollow, 200 ft. deep, course NW.

CHAINS	
	Begin abrupt ascent over rock slide and sandstone boulders.
39.01	Point for ¼ sec.cor.,falls on a sandstone boulder, 4x3x3 ft.above ground;cut a cross (x) at exact cor.point, for ¼ sec.cor.,marked ¼ on N.side of cross;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
69.00	Top of high rocky ridge bears NW.and SE.
	Descend abruptly over rock slide.
79.01	The cor.of secs.19-20-29 and 30.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	No timber.
	Mountainous land on 79.01 chs.
	July 4:At this cor.,I set off 22°53'N.on the decl.arc; and at 0h 04m p.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.
	Descend over rock slide along the east slope of a high mountain.
20.30	Bottom of hollow,100 ft.deep,course E.
	Begin abrupt ascent over rock slide.
40.00	On top of ridge bearing NE.and SW.
	Set a sandstone,20x12x5 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Descend.
80.00	Set a sandstone,24x8x8 ins.,18 ins.in the ground,for cor.of secs.17-18-19 and 20,marked with 3 notches on the S.,and 5 notches on the E.edge;from which
	A pine,14 ins.diam.,bears N.62°E.,29 lks.dist., marked T 3 N R 8 W S 17 B T.

CHAINS	
	A pine,14 ins.diam.,bears S.36°E.,1.00 ch.dist., marked T 3 N R 8 W S 20 B T.
	A pine,14 ins.diam.,bears S.78°W.,42 lks.dist., marked T 3 N R 8 W S 19 B T.
	A pine,5 ins.diam.,bears N.32°W.,40 lks.dist., marked T 3 N R 8 W S 18 B T.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous land or heavily timbered on 80.00 chs.
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	S.89°56'E.on a random line bet.secs.17 and 20.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.80	Intersect N.and S.line,9 lks.S.of the cor.of secs. 16-17-20 and 21.
	Thence I run
	West on a true line
	bet.secs.17 and 20.
	Ascend over rocky land through heavy pine timber.
35.00	Leave timber.
39.90	Point for $\frac{1}{4}$ sec.cor.,falls on a sandstone rock in place 66x66x30 ins.above ground;cut a cross(x) at exact cor. point for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.side of cross;and raise a mound of stone,2 ft.base,1$\frac{1}{2}$ ft.high,N.of cor. Pits impracticable.
42.50	Top of spur projects NE.
	Descend. Enter heavy pine timber,bearing NE.and SW.
79.50	Head of hollow,course NE.
79.80	The cor.of secs.17-18-19 and 20.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 79.80 chs.
	July 4,1904.

CHAINS	
	July 5,1904:At 7h a.m.,l.m.t.,I set off 40°39'N.on the lat.arc;22°50'N.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.89°50'W.on a random line bet.secs.18 and 19.
40.00	Set temp.¼ sec.cor.
78.83	Intersect W.bdy.of the Tp.13 lks.N.of the cor.of secs. 13-18-19 and 24,heretofore described.
	Thence I run
	S.89°56'E.on a true line bet.secs.18 and 19.
	Ascend over rocky land through scattering pine timber.
5.00	Top of ridge.bears NW.and SE.
	Descend .
18.00	Head of hollow,course N.
	Begin abrupt ascent over slide rock.
	Leave timber.
37.00	Top of ridge bears N.and S. Descend
38.83	Set a sandstone,24x10x8 ins.,18 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor. Pits impracticable.
48.50	Enter heavy pine timber,bearing N.and S.
78.83	The cor.of secs.17-18-19 and 20.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 78.83 chs.

SUBDIVISIONS OF T.3 N.,R.8 W.

CHAINS	
	N.0°04'W.,bet.secs.17 and 18.
	Descend gradually over snadstone ledges and boulders through scattering pine timber.
36.50	Lake,area,about 5 acres bears E.,1.50 chs.dist.
	Ascend.
40.00	Set a sandstone,12x10x4 ins.,8 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine,15 ins.diam.,bears N.78°E.,50 lks.dist., marked ¼ S 17 B T.
	A pine,10 ins.diam.,bears S.75°W.,39 lks.dist., marked ¼ S 18 B T.
45.10	Top of spur projects SE.
	Descend.
70.25	Head of hollow,course SE.
	Ascend.
80.00	Set a sandstone,14x8x6 ins.,9 ins.in the ground,for cor.of secs.7-8-17 and 18,marked with 4 notches on the S. and 5 notches on the E.edge;from which
	A pine,7 ins.diam.,bears N.24°E.,75 lks.dist., marked T 3 N R 8 W S 8 B T.
	A pine,9 ins.diam.,bears S.77°E.,43 lks.dist., marked T 3 N R 8 W S 17 B T.
	A pine,7 ins.diam.,bears S.7°W.,30 lks.dist., marked T 3 N R 8 W S 18 B T.
	A pine,13 ins.diam.,bears N.59°W.,1.05 chs.dist., marked T 3 N R 8 W S 7 B T.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous land on 80.00 chs.
	July 5:At this cor.,I set off 22°47'N.on the decl.arc; and at 0h 04m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 40°48'N.

CHAINS	
	E.on a random line bet.secs.8 and 17.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.96	Intersect N.and S.line,5 lks.S.of the cor.of secs. 8-9-16 and 17.
	Thence I run
	S.89°58'W.,on a true line
	bet.secs.8 and 17.
	Descend over mountainous and rocky land through heavy pine timber.
17.45	Head of hollow,course S.
	Begin gradual ascent. Leave heavy,enter scattering pines.
39.98	Set a sandstone,24x16x4 ins.,18 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	A pine,14 ins.diam.,bears N.10°E.,37 lks.dist., marked $\frac{1}{4}$ S 8 B T.
	A pine,24 ins.diam.,bears S.10°E.,45 lks.dist., marked $\frac{1}{4}$ S 17 B T.
79.96	The cor.of secs.7-8-17 and 18.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 79.96 chs.

	N.89°56'W.on a random line bet.secs.7 and 18.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
78.75	Intersect W.bdy.of the Tp.,5 lks.N.of the cor.of secs. 7-12-13 and 18,heretofore described.
	Thence I run
	S.89°58'E.on a true line
	bet.secs.7 and 18.
	Descend over rocky land through heavy pine timber.
34.50	Bottom of hollow,150 ft.deep,course NE.
	Begin abrupt ascent.
38.75	Set a sandstone,12x8x6 ins.,8 ins.in the ground,for

CHAINS	
	¼ sec.cor.,marked ¼ on N.face;from which
	A pine,13 ins.diam.,bears N.69°E.,1.55 chs.dist.,
	marked ¼ S 7 B T.
	A pine,13 ins.diam.,bears S.55°E.,1.30 chs.dist
	marked ¼ S 18 B T.
49.50	Top of ridge bears NE.and SW.;descend.
52.50	Bottom of hollow,100 ft.deep,course NE. Ascend.
69.00	Top of ridge bears NE.and SW.
	Descend.
78.75	The cor.of secs.7-8-17 and 18.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 78.75 chs.
	July 5,1904.

	July 6:At 7h a.m.,l.m.t.,I set off 40°40'N.on the lat.
	arc;22°44'N.on the decl.arc;and determine a meridian
	with the solar at the cor.of secs.7-8-17 and 18.
	Thence I run
	N.0°04'W.,bet.secs.7 and 8.
	Ascend over rocky land through scattering pine timber.
9.20	Top of ridge bears NE.and SW.
	Descend.
23.50	Bottom of hollow,100 ft.deep,course NE.
	Ascend.
40.00	Set a sandstone,12x12x10 ins.,8 ins.in the ground,for
	¼ sec.cor.,marked ¼ on W.face;from which
	A pine,12 ins.diam.,bears S.42°W.,37 lks.dist.,
	marked ¼ S 7 B T.
	A pine,13 ins.diam.,bears S.65°E.,8 lks.dist.,
	marked ¼ S 8 B T.
57.00	Top of spur projects NE.
	Descend.
78.00	Creek,20 lks.wide,10 ins.deep,in bottom of gulch,300

CHAINS	
	ft. deep, course W.
	Ascend.
80.00	Set a sandstone, 15x9x5 ins., 10 ins. in the ground, for cor. of secs. 5-6-7 and 8, marked with 5 notches on the S. and E. edges; from which
	A pine, 4 ins. diam., bears N. 5° E., 14 lks. dist., marked T 3 N R 8 W S 5 B T.
	A pine, 5 ins. diam., bears S. 14° E., 20 lks. dist., marked T 3 N R 8 W S 8 B T.
	A pine 4 ins. diam., bears N. 52° W., 23 lks. dist., marked T 3 N R 8 W S 6 B T.
	No other trees within limits; 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 land on 80.00 chs.

	N. 89° 58' E. on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 4-5-8 and 9.
	Thence I run
	N. 89° 58' W., on a true line
	bet. secs. 5 and 8.
	Descend over rocky land through heavy pine timber.
16.00	Creek, 4 lks. wide, 2 ins. deep, in bottom of hollow, 100 ft. deep, course NW., at mouth of hollow.
	Ascend.
21.00	Descend.
28.40	Creek, 20 lks. wide, 9 ins. deep, in bottom of gulch, 250 ft. deep, course SW.
	Ascend.

CHAINS	
39.95	Set a sandstone,24x24x18 ins.,18 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which A pine,4 ins.diam.,bears N.45°W.,18 lks.dist., marked ¼ S 5 B T. A pine,8 ins.diam.,bears S.77°W.,11 lks.dist., marked ¼ S 8 B T.
79.90	The cor.of secs.5-6-7 and 8. Land,mountainous. Soil;rocky,3rd and 4th rate. Timber,pine. Mountainous and heavily timbered land on 79.90 chs. July 6:At this cor.,I set off 22°42'N.on the decl.arc; and at 0h 04m p.m.,l.m.t.,observe the sun on the meridian; the resulting lat.is 40°41'N.

	N.89°58'W.on a random line bet.secs.6 and 7.
40.00	Set temp.¼ sec.cor.
78.62	Intersect W.bdy.of the Tp.,3 lks.N.of the cor.of secs.1-6-7 and 12,heretofore described.
	Thence I run S.89°59'E.,on a true line bet.secs.6 and 7.
	Ascend over mountainous land through heavy pine timber.
28.30	Top of ridge bears NE.and SW.
	Descend. Leave timber.
38.62	Set a sandstone,14x10x10 ins.,9 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
51.00	Enter heavy scattering pine timber.
57.25	Spring branch,4 lks.wide,2 ins.deep,in bottom of hollow, course SW.
	Ascend.
78.62	The cor.of secs.5-6-7 and 8.

CHAINS

Land,mountainous.

Soil:rocky,3rd and 4th rate.

Timber,pine.

Mountainous or heavily timbered land on 78.62 chs.

N.0°04'W.,on a random line bet.secs.5 and 6.

40.00 Set temp.¼ sec.cor.

80.10 Intersect N.bdy.of the Tp.,7 lks.E.of the cor.of secs. 5-6-31 and 32,heretofore described.

Thence I run

S.0°07'E.,on a true line

bet.secs.5 and 6.

Ascend over rocky land through heavy pine timber.

17.00 Top of ridge bears NE.and SW.

Descend.

40.10 Set a sandstone,12x7x7 ins.,8 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which

A pine,12 ins.diam.,bears N.13°E.,25 lks.dist., marked ¼ S 5 B T.

A pine,16 ins.diam.,bears N.84°W.,15 lks.dist., marked ¼ S 6 B T.

45.00 Spring branch,3 lks.wide,2 ins.deep,in bottom of hollow, 50 ft.deep,course SW.

Ascend.

66.50 Top of spur projects SW.

Descend.

80.10 The cor.of secs.5,6,7,and 8.

Land,mountainous.

Soil:rocky,3rd and 4th rate.

Timber,pine.

Mountainous and heavily timbered land on 80.10 chs.

July 6,1904.

GENERAL DESCRIPTION.

This township is mountainous throughout, and of sandstone formation.

The western portion lies along a high rocky ridge, covered with slide rock in the higher altitudes.

There are many streams and spring branches in all portions of the township, which courses are covered with a heavy growth of pines, and a moderate growth of nutritious grasses, but of not sufficent abundance to warrant good grazing.

On account of the high altitude, this township is not suitable for agricultural purposes.

There are no settlers in this township.

There is no mineral found in this township.

Meanders of lake.

October 27,1903.

I commence at the meander cor.of fracl.secs.4 and 33 S.89°50'E.,51.65 chs.dist.from the cor.of secs. 4-5-32 and 33,on the E.shore of lake,and run with meanders in sec.33.
Over mountainous land through heavy pine timber.

N.1°15'W.,	18.30 chs.	
N.36°15'W.,	10.60	
S.76°W.,	2.10	To outlet creek,30 lks.wide,10 ins. deep,course N.
S.76°W.,	1.10	
S.23°W.,	10.50	
S.23°30'E.,	11.00	
S.29°45'E.,	3.10	
S.41°E.,	4.80	To meander cor.of fracl.secs. 4 and 33,on the W.shore of lake.

Land,mountainous.

Soil;rocky,3rd and 4th rate.

Timber,pine.

Mountainous and heavily timbered land on 61.50 chs.

Meanders of lake.

I commence at the cor.of fracl.secs.5 and 32,which is also the cor.of secs.4-5-32 and 33,on the N.shore of Lake,and run with meanders in sec.32.
Over mountainous land through heavy pine timber.

N.36°45'W.,	6.00 chs.	
S.69°15'W.,	4.60	
S.2°W.,	3.15 chs.	To meander cor.of fracl.secs. 5 and 32,on W.shore of lake.

Land,mountainous.

Soil;rocky,3rd and 4th rate.

Timber,pine.

Mountainous and heavily timbered land on 13.75 chs.

Meanders in T.3 N.,R.8 W.

Meander of lake.

I commence ath the cor.of fracl.secs.5 and 32,on the N.bdy.of the Tp.,and the E.shore of lake,S.89°50'E. 34.70 chs.dist.from the cor.of secs.5-6-31 and 32,and run.with meanders in sec.32.

Over mountainous land and heavy rock slide.

N.43°30'E.,	4.40	chs.	
N.58°45'E.,	5.60	"	
N.6°30'E.,	6.90	"	
N.33°E.,	10.70	"	To outlet creek,20 lks.wide,8 ins. deep,course NE.
N.33°E.,	0.30	"	
N.73°W.,	8.40	"	
N.23°30'W.,	13.15	"	
S.69°30'W.,	12.00	"	
S.38°30'W.,	28.00	"	
S.3°W.,	10.57	"	To meander cor.of fracl.secs.5 and 32,on the W.shore of lake.

Land,mountainous.

Soil;rocky,4th rate.

No timber.

Mountainous land on 100.02 chs.

October,27,1903.

Fred Johnson

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

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

.....

ng the respective capacities in which they acted:

For final affidavits see book "L" T.4 N.R.8 W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

parts or portions of the .....

.....

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

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

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

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

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

al for .....

For final affidavits see book "L" T.4 N.R.8 W. ..... *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

ribed and sworn to before me this .....

ay of ....., 190

SEAL

.....

.....

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of the _____ day of _____, 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 affidavit see book "L" T.4 N.R.8 W.

_____

_____ 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 19 1904.

The foregoing field notes of the survey of the subdivisional lines of Township No. 3 North, Range No. 8 West of the Uintah Special Base and Meridian, Utah,

_____

_____

_____

_____

_____

executed by Fred Johnson

under his contract No. 276, dated August 10, 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 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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BOOK A-311
"L".

FILED
SEP 30 1904

FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N

O F

T O W N S H I P N O. 4 N O R T H

R A N G E N O. 8 W E S T

Of the UINTAH SPECIAL BASE AND *Meridian,*

U T A H

AS SURVEYED BY

Fred Johnson *United States Deputy Surveyor,*

nder his Contract No. 276 *dated* August 10 *190* .

rvey commenced July 9 *190* 4.

rvey completed July 15 *190* 4.

4-411

Ref 24-76-36
cly

5-8-09

BOOK A-3

NAMES AND DUTIES OF ASSISTANTS.

Chas.Walter Heinecke	Chainman.
A.H.Rock	Chainman.
Delbert Bowers	Moundman.
W.T.Muse	Axman.
Freemen Bowers	Axman.
Ralph Labrum	Flagman.

For preliminary affidavits see book "H" T.2 N.R.8 W.

BOOK A-311

INDEX DIAGRAM.

Township 4 North , *Range* 8 West

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

_____

_____

SUBDIVISIONS OF T.4 N.,R.8 W.

CHAINS	
	Survey commenced July 9,1904,and executed with the instrument described in book "G" of this survey. I know the instrument to be in adjustment from recent observations made July 7,1904,and recorded in book "I" of this survey.
	At 7h a.m.,l.m.t.,I set off 40°42'N.on the lat.arc.; 22°24'N.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 Tp. heretofore described.
	Thence I run
	N.0°01'W.,bet.secs.35 and 36.
	Ascend over rocky land through heavy pine timber.
10.00	Top of ridge bears E.and W.
	Descend.
19.50	Creek,5 lks.wide,2 ins.deep,course NE.
	Ascend.
33.00	Top of spur projects NE.
	Descend.
40.00	Point for ¼ sec.cor.falls on a sandstone boulder,4x3x3 ft.above ground;cut a cross (x) at exact cor.point for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine,5 ins.diam.,bears S.60°E.,15 lks.dist., marked ¼ S 36 B T.
	A pine,2 ins.diam.,bears N.80°W.,40 lks.dist., marked ¼ S 35 B T.
46.25	Creek,20 lks.wide,7 ins.deep,in bottom of gulch,200 ft. deep,course NE.
	Ascend.
65.00	Top of spur projects NE.
	Descend.
76.75	S.edge of lake,area about 6 acres,bears E.and W.
	Set a sandstone,18x12x5 ins.,12 ins.in the ground,for

CHAINS	
	witness cor.to cor.of secs.25-2635 and 36,marked W C on NE.,with 1 notch on the S.and E.edges;from which
	A pine,12 ins.diam.,bears N.76°E.,14 lks.dist., marked W C T 4 N R 8 W S 36 B T.
	A pine,10 ins.diam.,bears S.63°W.,32 lks.dist., marked W C T 4 N R 8 W S 35 B T.
80.00	Point for sec.cor.falls in lake and cannot be set.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 80.00 chs

	From witness cor.to cor.of secs.25-26-35 and 36,set 3.25 chs.S.0°01'E.of sec.cor.I offset as follows:
	S.89°54'E.,6.25 chs.,
	N.0°01'W.,3.25 chs.,to
6.25	On random line bet.secs.25 and 36.
	E.edge of lake.
	S.89°54'E.on a random line bet.secs.25 and 36.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.24	Intersect E.bdy.of the Tp.,19 lks.S.of the cor.of secs. 25-30-31 and 36,which is a sandstone,10x5x5 ins.above ground,marked and witnessed as described by Washington Jenkins,D.S.,under his cont.,No.275. Thence I run S.89°58'W.,on a true line bet.secs.25 and 36.
	Descend over mountainous land through heavy pine timber.
11.00	Creek,20 lks.wide,7 ins.deep,in bottom of gulch,300 ft. deep,course SE.
	Ascend.
40.12	Set a sandstone,14x8x6 ins.,9 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	A pine,15 ins.diam.,bears N.20°W.,35 lks.dist., marked $\frac{1}{4}$ S 25 B T.
	A pine,12 ins.diam.,bears S.33°W.,12 lks.dist., marked $\frac{1}{4}$ S 36 B T.

CHAINS	
55.00	Ridge bears NW.and SE.
62.00	E.edge of lake bears N.and S. To pass lake I offset as follows: N.,5.00 chs.,
	S.89°58'W.,4.00 chs.,on offset line.to
66.00	S.,5.00 chs.to true line.W.edge of lake bears N & S.
71.00	Spur projects S.E. Mound S.
73.99	To W.edge of lake,bearing N.and S.
80.24	Point for cor.of secs.25-26-35 and 36 falls in lake and cannot be set.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,Pine.
	Mountainous and heavily timbered land on 80.24 chs.

	From witness cor.,set 3.25 chs.S.0°01'E.of true point for cor.of secs.25-26-35 and 36,I offset as follows:
	W.,2.00 chs.
	N.0°01'W.,5.25 chs.on offset line to
2.00	E.,2.00 chs to true line,bet.secs.25 and 26.
	N.edge of lake bears E.and SW. Thence I run
	N.0°01'W.,bet.secs.25 and 26.
	Ascend over rocky land through heavy pine timber.
18.00	Top of ridge bears NW.and SE.
	Descend,
40.00	Set a sandstone,16x10x8 ins.,11 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pine,15 ins.diam.,bears S.81°E.,75 lks.dist.,
	marked $\frac{1}{4}$ S 25 B T.
	A pine,10 ins.diam.,bears N.85°W.,27 lks.dist.,
	marked $\frac{1}{4}$ S 26 B T.
44.50	Creek,5 lks.wide,3 ins.deep,in bottom of hollow,
	750 ft.deep,course E.
	Lake ,area about 1½ acres,bears N.10°W.,2.95 chs.,
	to outlet of lake.
	Ascend.

CHAINS	
52.50	Top of spur projects E.
	Descend.
70.00	Creek, 10 lks. wide, 5 ins. deep, course E.
	Lake area about 6 acres, bears E., 3.20 chs. dist.
	Ascend.
80.00	On top of spur projecting SE.
	Set a sandstone, 12x8x6 ins., 8 ins. in the ground, for cor. of secs. 23-24-25 and 26, marked with 2 notches on the S. and 1 notch on the E. edge; from which
	A pine, 16 ins. diam., bears N.37°30'E., 38 lks. dist., marked T 4 N R 8 W S 24 B T.
	A pine, 10 ins. diam., bears S.42°E., 96 lks. dist., marked T 4 N R 8 W S 25 B T.
	A pine, 12 ins. diam., bears S.49°W., 26 lks. dist., marked T 4 N R 8 W S 26 B T.
	A pine, 40 ins. diam., bears N.22°W., 4 lks. dist., marked T 4 N R 8 W S 23 B T.
	Land, mountainous.
	Soil; rocky, 3rd and 4th rate.
	Timber, pine.
	Mountainous and heavily timbered land on 80.00 chs.
	July 9: At this cor., I set off 22°22'N. on the decl. arc; and at 0h 05m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 40°44'N.

	N.89°58'E. on a random line bet. secs. 24 and 25.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.16	Intersect E. bdy. of the Tp., 14 lks. N. of the cor. of secs. 19-24-25 and 30., which is a sandstone, 8x6x5 ins. above ground, marked and witnessed as described by Washington Jenkins, D.S., under his contract, No. 275.
	Thence I run
	N.89°56'W., on a true line
	bet. secs. 24 and 25.

CHAINS	
	Descend over mountainous land through heavy pine timber.
10.00	Bottom of hollow,150 ft.deep,course SW.
	Ascend.
24.00	Top of spur projects SW.
	Descend.
32.40	Creek,10 lks.wide,6 ins.deep,in bottom of gulch,200 ft.deep,course SE.
	Ascend.
40.08	Set a sandstone,16x8x6 ins.,11 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	A pine,18 ins.diam.,bears N.16°W.,1.05 chs.dist., marked $\frac{1}{4}$ S **24** B T.
	A pine,24 ins.diam.,bears S.82°W.,29 lks.dist., marked $\frac{1}{4}$ S **25** B T.
45.25	Top of spur projects SE.
	Descend.
65.75	Creek,5 lks.wide,3 ins.deep,in bottom of hollow,100 ft.deep,course SE.
	Ascend abruptly.
80.16	The cor.of secs.23-24-25 and 26.
	Land,mountainous.
	Soil;rocky,3rd rate and 4th rate.
	Timber,pine.
	Mountainous and heavily timbered land on 80.16 chs.
	July 9,1904.
	July 10:At 7h a.m.,l.m.t.,I set off 40°44'N.on the lat.arc;22°17'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°01'W.,bet.secs.23 and 24.
	Descend over mountainous land through heavy pine timber.
13.50	Creek,5 lks.wide,2 ins.deep,in bottom of hollow,100 ft. deep,course SE.
	Ascend.

CHAINS	
40.00	Set a sandstone,18x12x8 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pine,24 ins.diam.,bears N.87°E.,65 lks.dist., marked $\frac{1}{4}$ S 24 B T.
	A pine,26 ins.diam.,bears S.70°W.,19 lks.dist., marked $\frac{1}{4}$ S 23 B T.
50.00	Top of ridge bears NW.and SE.
	Descend.
61.00	S.edge of lake,area about 24 acres,bears NE.and SW.
	To pass lake,I offset as follows:
	E.,5.00 chs.,
	N.0°01'W.,on offset line,17.00 chs.,to
78.00	W.,5.00 chs.to true line.
	NE.edge of lake bears NW.and SE.
	Ascend abruptly over rock slide. Leave timber.
80.00	Set a sandstone,26x12x6 ins.,19 ins.in the ground,for cor.of secs.13-14-23 and 24,marked with 3 notches on the S.and 1 notch on the E.edge;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 on 80.00 chs.

	S.89°56'E on a random line bet.secs.13 and 24.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.88	Intersect E.bdy.of the Tp.,5 lks.S.of the cor.of secs. 13,18-19 and 24,which is a sandstone,rock in place,10x6 x1 ft.above ground;marked and witnessed as described by Deputy Jonkins.,under his cont.,No.275.
	Thence I run
	N.89°58'W.,on a true line
	bet.secs.13 and 24.

Chains.	
	Ascend over rock slide.
31.80	Top of spur projects S.
	Descend.
	Enter scattering pine timber.
39.94	Set a sandstone, 16x8x6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
	A pine, 14 ins. diam., bears N. 23° W., 42 lks. dist., marked $\frac{1}{4}$ S 13 B T.
	A pine, 20 ins. diam., bears S. 10° E., 55 lks. dist., marked $\frac{1}{4}$ S 24 B T.
58.60	Creek, 10 lks. wide, 5 ins. deep, in bottom of hollow, 200 ft. deep, course S.
	Ascend.
66.75	Top of spur projects S.
	Descend.
79.88	The cor. of secs. 13-14-23 and 24.
	Land, mountainous.
	Soil; rocky, 3rd and 4th rate.
	Timber, pine.
	Mountainous land on 79.88 chs.
	July 10: At this cor., I set off 22° 14' N. on the decl. arc; and at 0h 05m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 40° 45' N.

N. 0° 01' bet. secs. 13 and 14.

Ascend abruptly over rock slide.

40.00	Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
47.65	Intersect North Boundary of Uintah Indian Reservation.
	Set a sandstone, 28x9x8 ins., 21 ins. in the ground, for closing cor. of secs. 13 and 14, marked
	C C U I R with 4 grooves on the S.,
	1 groove on the E., and

CHAINS

U F R on the N.faces;and raise a mound of stone, 2 ft.base,1½ ft.high,S.of cor.

Pits impracticable. Corner on top of ridge.

From the closing cor.,the ½ mile cor.,bet .the 52 mile and 53 mile cor.,which is a sandstone,10x8x7 ins.above ground,marked and witnessed as described by Deps.A.H.and F.M.Brown,bears S.64°30'E.,6.50 chs.dist.

Land,mountainous.

Soil;rocky,4th rate.

Timber,none.

Mountainous land on 47.65 chs.

July 10,1904.

July 11:At 7h a.m.,l.m.t.,I set off 22°9'N.on the decl. arc;40°42'N.on the lat.arc;and determine a meridian with the solar at the cor.of secs.2-3-34 and 35,heretofore described on the S.bdy.of the Tp.

Thence I run

N.0°02'W.,bet.secs.34 and 35.

Descend over mountainous land along the steep east slope of a high ridge.

11.75 Head of hollow,course NE.

Begin abrupt ascent over rock slide.

24.00 Top of high rocky plateau,bearing NE.and SW.

Begin gradual ascent.

40.00 Set a sandstone,24x8x5 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. Descend.

61.00 Begin abrupt descent from top of plateau,bearing NW.and SE.

80.00 Set a sandstone,22x11x6 ins.,16 ins.in the ground,for cor.of secs.26-27-34 and 35,marked with 1 notch on the S.and 2 notches on the E.edge;and raise a mound of stone,

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

	S.89°54'E.on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
78.08	W.edge of lake.
	I offset as follows:
	S.0°01'E.,3.25 chs.,
	S.89°54'E.,on random offset line,2.00 chs.to
80.08	Intersect N.and S.line,9 lks.S.of the witness cor.to
	cor.of secs.25-26-35 and 36,at S.edge of lake.
	Thence I run on true offset line as follows:
	N.89°58'W.,2.00 chs.
	N.0°01'W.,3.35 chs.to
2.00	W.edge of lake,bears NE.and S.
	Set a sandstone 16x12x8 ins.,11 ins.in the ground,for
	witness cor.to cor.of secs.25-26-35 and 36,marked WC on NE
	face,with 1 notch on the S.and E.edges;from which
	A pine,20 ins.diam.,bears S.2°E.,1.43 chs.dist.,
	marked W C T 4 N R 8 W S 35 B T.
	A pine,14 ins.diam.,bears N.6°E.,27 lks.dist.,
	marked W C T 4 N R 8 W S 26 B T.
	Thence I run
	N.89°58'W.,on a true line
	bet.secs.26 and 35.
	Over mountainous land along the S.side of a hollow,ascend.
	through scattering pine timber.
40.04	Set a sandstone,20x12x5 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.

CHAINS	
	Pits impracticable.
54.00	Begin more abrupt ascent. Leave timber.
80.08	The cor.of secs.26-27-34 and 35.
	Land,mountainous.
	Soil;rocky,4th rate.
	Timber pine.
	Mountainous land on 80.08 chs.
	July 11:At this cor.,I set off 22°6'N.on the decl.arc; and at 0h 05m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 40°43'N.

	N.0°02'W.,bet.secs.26 and 27.
	Descend along the east slope of a high rocky ridge.
26.15	Bottom of hollow,100 ft.deep,course SE.
	Spring branch in bottom of hollow,5 lks.wide,2 ins.deep, course SE.
	Ascend.
40.00	Point for $\frac{1}{4}$ sec.cor.,falls on a sandstone boulder, 5x4x3 ft.above ground;cut a cross (x) at exact cor. point for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
61.00	Top of ridge bears NW.and SE.
	Descend.
80.00	Set a sandstone,15x7x6 ins.,10 ins.in the ground,for cor.of secs.22-23-26 and 27,marked with 2 notches on the S.and E.edges;and raise a mound of stone,2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil;rocky,4th rate.
	No timber.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.4 N.,R.8 W.

CHAINS	
	S.89°58'E.on a random line bet.secs.23 and 26.
79.90	Intersect N.and S.line,5 lks.S.of the cor.of secs. 23-24-25 and 26.
	Thence I run
	West on a true line
	bet.secs.23 and 26.
	Descend over mountainous land through heavy pine timber.
15.60	Creek,5 lks.wide,3 ins.deep,in bottom of hollow,100 ft.deep,course SE.
	Ascend.
27.00	Top of spur projects SE.
	Descend.
39.50	Creek,5 lks.wide,3 ins.deep,in bottom of hollow,150 ft.deep,course SE.
39.95	Set a sandstone,20x14x7 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine,24 ins.diam.,bears N.17°E.,27 lks.dist., marked ¼ S 23 B T.
	A pine,20 ins.diam.,bears S.5°E.,98 lks.dist., marked ¼ S 26 B T.
59.00	Leave timber.
	Begin abrupt ascent over rock slide.
79.90	The cor.of secs.22-23-26 and 27.
	Land,mountainous.
	Soil;rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 79.90 chs.
	July 11,1904.

CHAINS	
	July 12:At 7h. a.m.,l.m.t.,I set off 40°44'N.on the lat.arc;22°01'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.22-23-26 and 27.
	Thence I run
	N.0°02'W.,bet.secs.22 and 23.
	Descend over rock slide along the east slope of a high rocky ridge.
34.00	Bottom of hollow,100 ft.deep,course SE.
	Ascend over rock slide.
40.00	Set a sandstone,18x16x9 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.
47.00	Top of ridge bears NW.and SE.
	Descend.
67.50	Bottom of hollow,100 ft.deep,course SE.
	Ascend abruptly over rock slide.
80.00	Set a sandstone,15x8x5 ins.,10 ins.in the ground,for cor.of secs.14-15-22 and 23,marked with 3 notches on the S.and 2 notches on the 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 on 80.00 chs.

	East on a random line bet.secs.14 and 23.
40.00	Set temp.¼ sec.cor.
79.82	Intersect N.and S.line,7 lks.S.of the cor.of secs. 13-14-23 and 24.
	Thence I run S.89°57'W.,on a true line
	bet.secs.14 and 23.
	Descend over mountainous land t[illegible]

SUBDIVISION OF T.4 N.R.8 W.

Chains.	
2.80	N.E.edge of lake bears NW.and SE.
	To pass lake offset as follows:
	N.4.00 chs.
	S.89°57'W.8.50 chs.on offset line to
11.30	S.4.00 chs.to true line,
	NW.edge of lake bears NE.and SW.;ascend.
39.91	set a sandstone 16x12x5 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable.
54.30	Top of ridge bears NW.and SE.;descend.
79.82	The cor.of secs.14,15.22,and 23.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 79.82 chs.
	July 12:At the noon hour sky overcast observation for lat.impossible.

N.0°02'W.bet.secs.14 and 15

Over mountainous land.

19.50 Intersect North boundary of Uintah Indian Reservation, Set a sandstone 20x12x4 ins.15 ins.in the ground for closing cor.of fracl.secs.14 and 15,marked CCUIR with 3 grooves on S.;2 grooves on E.and UFR on N.face;and raise a mound of stone 2 ft.base 1½ ft.high S.of cor.

Pits impracticable.

Corner on top of dividing ridge.

From the closing cor.the ½ mile cor.bet.the 53d and 54th mile cors.on the bdy.,which is a sandstone 18x10x7 ins. above ground marked and witnessed as described by Deps. A.H.and F.M.Brown bears N.49°45'E.15.70 chs.dist.

Land mountainous.

Soil rocky 4th rate.

No timber.

Mountainous land on 19.50 chs.

Chains.	
	Knowing the line bet.secs.15 and 22 will intersect the North Bdy.of Uintah Indian Reservation within 80.00 chs. I run from the cor.of secs.14,15,22,and 23
	N.89°59'W.on a true line bet.secs.15 and 22
	Over mountainous land covered with loose slide rock;descending.
9.00	Head of gulch drains S.E.;Ascend.
23.05	Intersect N.Bdy.of Uintah Indian Reservation;
	Set a sandstone 20x8x8 ins.15 ins.in the ground for closing cor.for fracl.secs.15 and 22;marked CCUIR with 2 grooves on E.;3 grooves on S.;and UFR on W.faces;and raise a mound of stone 2 ft.base 1½ ft.high E.of cor.
	From the closing corner the 54th mile cor.on the boundary ry as established by Deputies A.H.and F.M.Brown bears N.49°45'E.5.90 chs.dist.
	Corner on top of dividing ridge.
	Land mountainous.
	Soil rocky;4th rate.
	No timber.
	Mountainous land 23.05 chs. July 12,1904.

	July 13:At 7 h.0 m.a.m.l.m.t.I set off 40°42'N.on the lat.arc;21°52'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.3,4,33,and 34 on S. bdy.of Tp.,heretofore described. Thence I run
	N.0°02'W.bet.secs.33 and 34
	Descend over mountainous land through scattering pine timber.
8.75	Creek 15 lks.wide,7 ins.deep,in bottom of hollow 100 ft. deep,course SW.Ascend along E.slope of ridge.
40.00	Set a sandstone 12x8x6 ins.8 ins.in the ground for ¼ sec. cor.,marked ¼ on W.face;and raise a mound of stone 2 ft. base 1½ ft.high W.of cor.Pits impracticable.
80.00	Set a sandstone 20x12x6 ins.15 ins.in the ground for cor. of secs.27,28,33,and 34,marked with 1 notch on S.and 3

Chains.	
	notches on the E.edge;from which
	A pine 14 ins.diam.bears N.58°E.65 lks.dist.
	marked T 4 N R 8 W S 27 B T
	A pine 12 ins.diam.bears S.65½°E.30 lks.dist.
	marked T 4 N R 8 W S 34 B T
	A pine 36 ins.diam.bears S.30½°W.32 lks.dist.
	marked T 4 N R 8 W S 33 B T
	A pine 18 ins.diam.bears N.39½°W.50 lks.dist.
	marked T 4 N R 8 W S 28 B T
	Land mountainous.
	Soil rocky;3d and 4th rate.
	Timber pine.
	Mountainous land on 80.00 chs.

	S.89°54'E.on a random line bet.secs.27 and 34
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line 14 lks.S.of the cor.of secs.26-27-34,and 35. Thence I run
	West on a true line bet.secs.27 and 34
	Ascend over rock slide.
20.00	The brow of a high rocky ridge bears NW.and SE.
37.00	The west brow of the ridge bears N.and S.
	Begin abrupt descent over slide rock.
40.06	Point for ¼ sec.cor.falls on a sandstone boulder 4x3x3 ft.above ground,cut across (X) at exact cor.point for ¼ sec.cor.,marked ¼ on N.side of cross;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
69.20	Creek 10 lks.wide 5 ins.deep,in bottom of hollow 200 ft. deep,course SE. Ascend.
80.12	The cor.of secs.27,28,33,and 34.
	Land mountainous.
	Soil rocky;3rd and 4th rate.
	No timber.
	Mountainous land on 80.12 chs.

Chains.	
	July 13,: At this cor.I set off 21°50'N.on the decl.arc and at 0 h.05 m.p.m.l.m.t.observe the sun on the meridian;the resulting lat.is 40°43'N.
	N.0°02'W.bet.secs.27 and 28
	Ascend over rocky land through scattering pine timber.
12.00	Begin descent.
27.00	S.edge of lake;area about 4 acres bears NW.and SE.
	To pass lake offset as follows: W.3.50 chs.
	N.0°02'W.on offset line 6.00 chs.to
33.00	E.3.50 chs.to true line.N.edge of lake bears E.and W. Ascend over rocky land. Leave timber.
40.00	Set a sandstone 16x9x7 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
80.00	Set a sandstone 14x8x6 ins.9 ins.in the ground for cor. of secs.21,22,27,and 28,marked with 2 notches on the S. and 3 notches on the E.edges;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land on 80.00 chs.
	East on a random line bet.secs.22 and 27
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.50	Intersect N.and S.line 3 lks.N.of the cor.of secs.22,23, 26 and 27.Thence I run
	N.89°59'W.on a true line bet.secs.22 and 27
	Ascend over rock slide and sandstone boulders.
12.00	Begin more abrupt ascent.
40.25	Set a sandstone 18x6x6 ins.8 ins.in the ground for $\frac{1}{4}$ sec. cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

CHAINS	
	This cor.falls on top of rocky ridge bearing N.and S. Begin abrupt descent over rock slide.
80.00	The cor.of secs.21,22,27,and 28.
	Land mountainous.
	Soil rocky;3d rate.
	No timber.
	Mountainous land on 80.50 chs.

	N.0°02'W.,bet.secs.21 and 22.
	Ascend abruptly over rock slide.
40.00	Set a sandstone,18x14x5 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
50.80	Intersect North Boundary of Uintah Indian Reservation.
	Set a sandstone,28x10x10 ins.,21 ins.in the ground,for closing cor.of secs.21 and 22,marked
	C C U I R with 3 grooves on the S.,
	3 grooves on the E.,and
	U I R on the N.faces;and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,S.of cor.
	Pits impracticable.Corner on top of dividing ridge.
	From the closing cor.,the 55 mile cor.,which is a sandstone,14x9x8 ins.above ground,marked and witnessed as described by Deputies A.H.and F.M.Brown bears S.53°30'W.7.05 chs.
	Land,mountainous.
	Soil;rocky,4th rate.
	No timber.
	Mountainous land on 50.80 chs.
	July 13,1904.

	July 14:At 7h a.m.,l.m.t.,I set off 40°42'N.on the lat. arc;21°43'N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.4-5-32 and 33,heretofore described on the S.bdy.of the Tp.
	Thence I run

CHAINS	
	N.0°03'W.,bet.secs.32 and 33.
	Descend over rocky land through heavy pine timber.
6.00	Creek,10 lks.wide,6 ins.deep,in bottom of hollow,100 ft.deep,course S.to SW.
	Thence ascend along bottom of hollow.
16.20	Leave creek,course SW.to S.
	Ascend. Leave timber.
36.60	Set a sandstone,12x8x6 ins.,8 ins.in the ground,for witness cor.to ¼ sec.cor.,marked W C ¼ on W.face;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
40.00	Point for ¼ sec.cor.,falls on a perpendicular sandstone ledge,and cannot be set.
	Begin abrupt ascent over broken sandstone ledges.
80.00	Set a sandstone,14x8x6 ins.,9 ins.in the ground,for cor.of secs.28-29-32 and 33,marked with 1 notch on the S.and 4 notches on the E.edge;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 on 80.00 chs.

	S.89°54'E.on a random line bet.secs.28 and 33.
40.00	Set temp.¼ sec.cor.
79.94	Intersect N.and S.line,9 lks.S.of the cor.of secs. 27-28-33 and 34,
	Thence I run
	N.89°58'W.,on a true line
	bet.secs.28 and 33.
	Ascend over rocky land over huge sandstone boulders and slide rock.
13.00	Top of ridge bears N.and S.

CHAINS	
	Descend.
21.00	E.edge of lake,area about 2½ acres,bears N.and SW.
	To pass lake offset as follows:
	N.,4.00 chs.,
	N.89°58'W.,on offset line,0.50 chs.,to
27.50	Thence S.4.00 chs.to true line.
	E.edge of lake bears N.and S. Enter scattering pines.
39.97	Set a sandstone,14x8x6 ins.,9 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine,24 ins.diam.,bears S.10°E.,20 lks.dist., marked ¼ S 33 B T.
	A pine,26 ins.diam.,bears N.50°W.,50 lks.dist., marked ¼ S 28 B T.
56.50	Top of ridge bears N.and S.
	Descend abruptly,over rock slide.
	Leave timber.
79.94	The cor.of secs.28-29-32 and 33.
	Land,mountainous.
	Soil;rocky,4th rate.
	Timber,pine.
	Mountainous land on 79.94 chs.
	July 14:At this cor.,I set off 21°41'N.on the decl.arc: and at 0h 06m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 40°43'N.

	N.0°03'W.,bet.secs.28 and 29.
	Ascend over rock slide along the west slope of a high rocky ridge.
40.00	Set a sandstone,18x11x5 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
71.54	Intersect North Boundary of Uintah Indian Reservation.
	Set a sandstone,16x12x8 ins.,11 ins.in the ground,for closingcor.of secs.28 and 29,marked

CHAINS	
	C C U I R with 2 grooves on the S.,
	4 grooves on the E.,
	U F R on the N.face; and raise a mound of stone,
	2 ft. base, 1½ ft. high, S. of cor.
	Pits impracticable. Corner on top of dividing ridge.
	From the closing cor., the 56 mile cor., a sandstone 12x10 x8 ins. above ground, marked and witnessed as described by Deputies A.H. and F.M. Brown, bears N.53°30'E., 12.55 chs. dist.
	Land, mountainous.
	Soil; rocky, 4th rate.
	No timber.
	Mountainous land on 71.54 chs.

	Knowing the line bet. secs. 21 and 28 intersects the North Boundary of Uintah Indian Reservation, at the west end of the line, I commence at the cor. of secs. 21-22-27 and 28, and run
	N.89°58'W., on a true line
	bet. secs. 21 and 28.
	Descend gradually along a steep rocky south slope, over rock slide and sandstone boulders.
31.00	Bottom of guloh, 150 ft. deep, course SE.
	Ascend abruptly over rock slide.
40.00	Set a sandstone, 18x12x5 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.
68.65	Intersect N.Bdy. of Uintah Indian Reservation,
	Set a sandstone, 20x16x8 ins., 15 ins. in the ground, for closing cor. of secs. 21 and 28, marked
	CCUIR with 4 grooves on the E.,
	2 grooves on the SW, and on the S.,
	UFR on W.face; N.face;

CHAINS	
	and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.
	Pits impracticable.Corner on top of dividing ridge.
	From the closing cor.,the 56 mile cor.,which is a sand-stone,12x10x8 ins.above ground,marked and witnessed as described.by Deputies A.H.and F.M.Brown bears S.53°30'W.
	1.65 chs.dist.
	Land,mountainous.
	Soil:rocky,4th rate.
	No timber.
	Mountainous land on 68.66 chs.
	July 14,1904.

	July 15:At 7h a.m.,l.m.t.,I set off 21°34'N.on the decl. arc;40°42'N.on the lat.arc;and determine a meridian with the solar at the cor.of secs.5-6-31 and 32,here tofore described on the S.bdy.of the Tp.
	Thence I run
	N.0°04'W.,bet.secs.31 and 32.
	Descend over mountainous land through heavy pine timber.
17.20	Bottom of hollow,200 ft.deep,course SW.
	Ascend.
31.00	Leave timber.
	Begin abrupt ascent over slide rock.
40.00	Set a sandstone,34x14x8 ins.,25 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.
66.00	Top of abrupt ascent bears NE.and SW.
	Ascend over top of high plateau.
80.00	Set a sandstone,17x10x7 ins.,11 ins.in the ground,for cor.of secs.29-30-31 and 32,marked with 5 notches on the E.and 1 notch on the S.edge;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.

CHAINS	
	Land,mountainous.
	Soil:rocky,3rd and 4th rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.00 chs.

	S.89°54'E.on a random line bet.secs.29 and 32.
40.00	Set temp.¼ sec.cor.
79.86	Intersect N.and S.line,7 lks.S.of the cor.of secs. 28-29-32 and 33.
	Thence I run
	N.89°57'W.,on a true line
	bet.secs.29 and 32.
	Descend over rocky land.
19.00	Bottom of hollow,200 ft.deep,course S.
	Begin abrupt ascent over slide rock.
39.93	Set a sandstone,28x12x6 ins.,21 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.
54.50	Top of abrupt ascent bears NE.and SW.
	Ascend over top of a high plateau.
79.86	The cor.of secs.29-30-31 and 32.
	Land,mountainous.
	Soil:rocky 4th rate.
	No timber.
	Mountainous land on 79.86 chs.
	July 15:At this cor.,I set off 21°31'N.on the decl.arc; and at 0h 06m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 40°43'N.

SUBDIVISION OF T.4 N.R.8 W.

Chains.	
	N.89°54'W.on a random line bet.secs.30 and 31
40.00	Set temp.¼ sec.cor.
78.30	Intersect W.bdy.of Tp.9 lks.N.of the cor.of secs.25,30 31 and 36,heretofore described.
	Thence I run
	S.89°58'E.on a true line bet.secs.30 and 31
	Ascend over mountainous land;through scattering pine timber.
25.50	Leave timber.
	Begin abrupt ascent over slide rock.
38.30	Set a sandstone 16x12x5 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
46.50	Top of abrupt ascent bears NE.and SW.
	Ascend over high plateau.
78.30	The cor.of secs.29,30,31,and 32.
	Land mountainous.
	Soil rocky;4th rate.
	Timber pine.
	Mountainous land on 78.30 chs.

	N.0°04'W.bet.secs.29 and 30
	Ascending abruptly over mountainous land covered with loose slide rock
24.95	On top of dividing ridge,intersect North Boundary Uintah Indian Reservation
	Set a sandstone 20x10x8 ins.15 ins.in the ground for closing cor. to secs.29 and 30;marked CCUIR with 1 groove on S.;5 grooves on E.,and U F R on N.face;and raise a mound of stone 2 ft.base 1½ ft.high S.of cor.
	Pits impracticable.
	From the closing cor.the half-mile cor.between the 57th.

Chains. and 58th.mile cor.on the boundary as established by Deputies A.H.and F.M.Brown under their contract No.264 bears N.50°30'W.7.62 chs.dist.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land 24.95 chs.

Knowing that the line bet.secs.19 and 30 will intersect the north boundary of the Uintah Indian Reservation,I commence at the cor.of secs.19,24,25,and 30 on W.bdy.of Tp.,heretofore described,and run

S.89°58'E.on a true line bet.secs.19 and 30

Ascending over slide rock.

11.42 Intersect North boundary of Uintah Indian Reservation on top of dividing ridge.

Set a sandstone 18x10x6 ins.12 ins.in the ground for closing cor.of secs.19 and 30,marked C C U I R with 1 groove on W.;2 grooves on S.,and U F R on E.faces;and raise a mound of stone 2 f[illegible].base 1½ ft.high W.of cor.

Pits impracticable.

From the closing cor.the half-mile cor.between the 58th and 59th mile cor.on the boundary as established by Deputies A.H.and F.M.Brown under their contract No.264, bears N.50°30'W.1.12 chs.dist.

Land mountainous.

Soil rocky;4th rate.

No timber.

Mountainous land on 11.42 chs.

July 15,1904.

GENERAL DESCRIPTION.

This township is mountainous throughout,and badly broken with rocky ridges and gulches and hollows. The

SUBDIVISION OF T.4 N.R.8 W.

Chains.

northern portion of the township lies along the steep southern slope of a high mountain range forming the N. bdy.of the Uintah Indian Reservation,which is covered with slide rock and is destitue of vegetation. The altitude of this range is about 13,500 ft.above sea level. The southern portion of the township lies in a lower altitude and is well watered with mountain creeks and spring branches and covered with a heavy growth of pine timber.

On account of the high altitude of this township, it is unsuitable for agricultural or grazing purposes.

The formation is wholly sandstone.I found no trace of mineral in the township.

There are no settlers in the township.

Fred Johnson.

U.S.Deputy Surveyor.

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There being no Notary Public or other officer authorized to administer oaths within a reasonable distance, at the beginning or ending of this survey; therefore, in order to save time and expense, I administer the preliminary and final oaths myself.

Fred Johnson.

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 Fred Johnson, United States Deputy Surveyor, to assist in running, measuring, and king the lines and corners described in the foregoing field notes of the survey of ubs. of Tps. 2-3-and 4 N., R. 8 W., Uintah Special Base and Meridian, Utah. ving the respective capacities in which they acted:

has. Walter Heinecke ..... *Chainman.*

.H. Rock ..... *Chainman.*

elbert Bowers ..... *Moundman.*

..... *Moundman.*

. T. Muse ..... *Axman.*

reemen Bowers ..... *Axman.*

alph Labrum ..... *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Fred Johnson United States Deputy Surveyor, in surveying all se parts or portions of the Subs. of Tps. 2-3-and 4 N., R. 8 W., of the Uintah ecial Base and meridian, in the state of Utah, which are represented the foregoing field notes as having been surveyed by him and under his direction; and that said survey s been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the ner monuments established, according to the instructions furnished by the United States Surveyor neral for Utah.

Chas. Walter Heinecke ..... *Chainman.*

O. H. Rock ..... *Chainman.*

Dilbert Bowers ..... *Moundman.*

..... *Moundman.*

W. T. Muse ..... *Axman.*

Freemen Bowers ..... *Axman.*

Ralph Labrum ..... *Flagman.*

.....

ubscribed and sworn to before me this 5th day of August 1904

SEAL

Fred Johnson

U. S. Dep. Surveyor

6-181

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Fred Johnson, United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from Edward H Anderson United States Surveyor General for Utah., bearing date of 10th day of August, 1903., 189 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surve General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of subs. of Tps. 2-3-and 4 N., R. 8

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

Fred Johnson
United States Deputy Surve

Subscribed by said Fred Johnson, and sworn to before me this 23rd day of September, 1904

Jno. M. Nicholls
Clerk U S Dist Cou
W D W D of Mo

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah November 19, 1904

The foregoing field notes of the survey of the Subdivisional lines of Townsh No. 4 North, Range No. 8 West of the Uintah Special Base and Meridian, Utah,

executed by Fred Johnson under his contract No. 276, dated August 10, 1903, , having be critically examined, and the necessary corrections and explanations made, the said field notes, and t surveys they describe, are hereby approved.

Edward H Anderson
United States Surveyor Gene

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

United States Surveyor Gen

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BOOK A-311
"A".

FILED
SEP 30 1904

FIELD NOTES

OF THE SURVEY OF THE

UINTAH SPECIAL BASE LINE

THROUGH

RANGE NO. 10 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

John W. McKim, *United States Deputy Surveyor,*

Under his Contract No. 277, *dated* July 22, *190*3.

Survey commenced September 20, *190*3

Survey completed September 23, *190*3.

6—151

NAMES AND DUTIES OF ASSISTANTS.

George Russell	Chainman.
William A.Wall	Chainman.
Ray Streeper	Chainman.
Lyman Haymond	Chainman.
John Streeper	Roundman
Henry W.Curtis	Axman.
James S.Houtz	Flagman.

BOOK A-311

INDEX DIAGRAM.

Township 1 North , *Range* 10 West

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

George Russell, Ray Streeper,
We, William A. Wall, and Lyman Haymond

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Uintah Special Base Line, through ranges 10 and 11 W. of the Uintah Special Base and Meridian, Utah.

George Russell, Chainman.
William A Wall Ray C Streeper, Chainman.
Lyman Haymond, Chainman.

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

SEAL

John W. McKinnon
U.S. Deputy Surveyor

I, We, John Streeper 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 Uintah Special Base Line, through ranges 10 and 11 W. of the Uintah Special Base and Meridian, Utah.

John C Streeper, Moundman.
, Moundman.

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

SEAL

John W. McKinnon
U.S. Deputy Surveyor

I, We, Henry W. Curtis, 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 Uintah Special Base Line, through ranges 10 and 11 W. of the Uintah Special Base and Meridian, Utah.

Henry W. Curtis, Axman.
, Axman.

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

SEAL

John W. McKinnon
U.S. Deputy Surveyor

I, James S. Houtz, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Uintah Special Base Line, through ranges 10 and 11 W. of the Uintah Special Base and Meridian, Utah.

James S Houtz, Flagman.

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

SEAL

John W. McKinnon
U.S. Deputy Surveyor

6—151

Chains.

Survey commenced September 20,1903,and executed with a C.L.Berger and Sons mining transit No.4283,the horizontal limbs having two double verniers placed opposite to each other and reading to 1' 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 August 20,1903.

I begin at the standard corner of townships 1 north, ranges 9 and 10 west,which is a porphyry stone 6x18x6 ins. above ground firmly set and marked and witnessed as described by Deputy Johnson under his contract No.276.

At a point 2.83 ft.south of said standard corner,in latitude 40°26.3' N.,longitude 110°59'W.,at 7 h.31.6 m.p.m. l.m.t by my watch which is 3 minutes slow of local mean time, I observe Polaris at eastern elongation in accordance with instructions in the Manual,and mark the line thus determined by a tack driven in a wooden peg set in the ground 6.00 chs.N.of my station.

September 20,1903.

---

l.m.t.,

September 21,1903,at 7 h.a.m.I lay off the azimuth of Polaris 1°35.5'to the west and mark the true meridian thus determined by cutting a mark on a stone in place west of the point established last night;the magnetic bearing of said true meridian is N.16°55'W.,which gives the magnetic declination 16°55'E.

At this station,i.e.the point 2.83 ft.S.of the standard corner,I turn off from the meridian an angle of 89°57' 45" toward the west and run

N.89°58'W.on the secant S.of sec.36

Over mountainous land;ascending along the north slope of the high ridge south of the West Fork of the DuChesne River'

UINTAH SPECIAL BASE LINE THROUGH RANGE 10 WEST.

Chains.	
1.00	Enter scrub fire-killed aspen timber;bears N.and S.
7.00	Leave fire-killed and enter live aspen timber,bears N. and S.
15.00	Head of ravine,course S.80°E. Ascend.
19.00	Leave aspen and enter scattering pine timber bears N.W. and S.E.
23.00	Leave pine timber,bears N.W.and S.E.
31.50	Top of spur 150 ft.above corner,bears N.and S. Descend abruptly.
	Difference between measurements of 40.00 chs.by two sets of chainmen is 4 lks.;position of the middle point
	By 1st set 40.02 chs.
	By 2nd set 39.98 chs.,the mean of which is
40.00	N.1.27 ft.from the secant,
	Set a sandstone 20x8x4 ins.15 ins.in the ground,for standard $\frac{1}{4}$ sec.cor.,marked S C $\frac{1}{4}$ on the N.face;from which
	An aspen 3 ins.diam.bears N.60°E.30 lks.dist.,
	marked S C $\frac{1}{4}$ S 36 B T
	No other bearing tree within limits;raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
48.50	Bottom of Right Fork of Little Sand Creek,200 ft.below spur. The creek is a clear mountain stream 6 lks.wide, 5 ins.deep,bottom sandy and rocky,drains N.2°E.
	Thence ascend over fallen timber and through scattering live pine and scrub aspen.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 11 lks.:position of middle point
	By 1st set 79.94½ chs.
	By 2nd set 80.05½ chs.,the mean of which is
80.00	On top of ridge 400 ft.above Little Sand Creek bears N. 15°E.and S.15°W.
	Set a sandstone 16x11x3 ins.11 ins.in the ground for standard corner for secs.35 and 36,marked S C on N.face, with 1 groove on the E.and 5 grooves on the W.face;from

Chains.	
	which
	A pine 7 ins.diam.bears N.48°30' E.110 lks.dist.
	marked T 1 N R 10 W S 36 B T
	A pine 7 ins.diam.bears N.65°W.140 lks.dist.
	marked T 1 N R 10 W S 35 B T
	Land mountainous.
	Soil sandy and stony;2nd and 4th rate.
	Timber pine and aspen.
	Mountainous or heavily timbered land 80.00 chs.
	N.89°58'W.on the secant through sec.35
	Descending abruptly through scattering pine timber.
1.00	Leave pine timber bears N.10°E.and S.10°W.
20.00	Ravine 80 ft.deep,course N.15°E.
	Ascend.
36.00	Top of spur 300 ft.high bears N.40°W.;descend.
	Difference between measurements of 40.00 chs.by two sets of chainmen is 12 lks.;position of middle point
	By 1st set 39.94 chs.
	By 2nd set 40.06 chs.,the mean of which is
40.00	S.1.00 ft.from the secant.
	Set a porphyry stone 16x7x7 ins.11 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.
50.00	Enter aspen timber bears N.41°W.and S.41°E.
58. 00	Small ravine course N.30°W.;ascend.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 6 lks.;position of middle point
	By 1st set 80.03 chs.
	By 2nd set 79.97 chs.,the mean of which is
80.00	S.1.71 ft.from the secant
	Set a porphyry stone 18x12x10 ins.12 ins.in the ground, for standard corner of secs.34 and 35,marked S C on N.

UINTAH SPECIAL BASE LINE THROUGH RANGE 10 WEST.

Chains.	
	face,with 2 grooves on the E.and 4 grooves on the W.faces from which
	An aspen 5 ins.diam.bears N.65°E.108 lks.dist. marked T 1 N R 10 W S 35 B T
	An aspen 5 ins.diam.bears N.67°W.85 lks.dist. marked T 1 N R 10 W S 34 B T
	Land mountainous.
	Soil sandy and stony;2nd and 4th rate.
	Timber pine and aspen.
	Mountainous or heavily timbered land 80.00 chs.
	September 21,1903.
	September 22,1903.
	N.89°59'W.on the secant through sec.34
	Ascending through burned pine timber and scattering aspen timber.
4.00	Top of spur 80 ft.high bears N.3°E.and S.3°W.;descend
9.00	Ravine 100 ft.deep,also spring branch 3 lks.wide and 2 ins.deep,course N.2°E.;ascend.
	Difference between measurements of 40.00 chs.by two sets of chainmen is 3 lks.;position of middle point
	By 1st set 40.01½ chs.
	By 2nd set 39.98½ chs.,the mean of which is
40.00.	S.2.13 ft.from the secant
	Set a porphyry stone 18x9x4 ins.12 ins.in the ground, for standard ¼ sec.cor.,marked S C ¼ on N.face;from which
	An aspen 3 ins.diam.bears N.51°W.57 lks.dist. marked S C ¼ S 34 B T
	No other bearing tree within limits;raise a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
81.00	Top of spur 60 ft.high bears N.and S.;descend.
	Difference between measurements of 80. 0 chs.by two sets

Chains.	
	of chainmen is 12 lks.;position of middle point
	By 1st set 80.06 chs.
	By 2nd set 79.94 chs.,the mean of which is
80.00	S.2.28 ft.from the secant .
	Set a porphyry stone 22x13x5 ins.16 ins.in the ground
	for standard corner of secs.33 and 34,marked S C on the
	N.face,with 3 grooves on the E.and W.faces;from which
	An aspen 3 ins.diam.bears N.73°E.240 lks.dist.
	marked T 1 N R 10 W S 34 B T
	An aspen 3 ins.diam.bears N.52°W.84 lks.dist.
	marked T 1 N R 10 W S 33 B T
	Land mountainous.
	Soil sandy and stony;2nd and 4th rate.
	Timber aspen.
	Mountainous land 80.00 chs.
	West on the secant through sec.33
	Descending through aspen timber.
4.00	Enter scattering pine timber bears N.and S.
13.00	Left fork of Canon Creek,clear mountain stream 10 lks.
	wide 6 ins.deep;bottom rocky;course N.30°W.
	Enter heavy pine timber bears N.30°W.and S.30°E.;ascend.
18.50	Top of spur 100 ft.high bears N.15°W.;descend.
31.00	Ravine and Right Fork of Canon Creek;clear mountain stream
	5 lks.wide,3 ins.deep,course N.;ascend.
38.00	Leave pine and enter aspen timber bears N.and S.
	Difference between measurements of 40.00 chs.by two sets
	of chainmen is 10 lks.;position of middle point
	By 1st set 39.95 chs.
	By 2nd set 40.05 chs.,the mean of which is
40.00	S.2.13 ft.from the secant .
	Set a porphyry stone 16x8x5 ins.11 ins.in the ground
	for standard ¼ sec.cor.,marked S C ¼ on N.face;from which
	An aspen 12 ins.diam.bears N.19°E.33 lks.dist.

Chains	
	marked S C ¼ S 33 B. T
	No other bearing trees within limits; raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
76.00	Top of spur 300 ft. above right fork of Canon Creek bears N.5°E. Descend.
78.50	Enter heavy pine and aspen timber bears N. and S.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 20 lks.; position of middle point
	By 1st set 80.10 chs.
	By 2nd set 79.90 chs.; the mean of which is
80.00	S.1.71 ft. from the secant
	Set a porphyry stone 17x12x4 ins. 12 ins. in the ground, for standard cor. of secs. 32 and 33, marked S C on N. face with 4 grooves on E. and 2 grooves on W. faces; from which
	An aspen 15 ins. diam. bears N.23°E. 55 lks. dist.
	marked T 1 N R 10 W S 33 B T
	A pine 12 ins. diam. bears N.47°W. 70 lks. dist.
	marked T 1 N R 10 W S 32 B T
	Land mountainous.
	Soil sandy and stony; 2nd and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.; heavy timber 67.00 chs.
	September 22, 1903.
	Note:- I erect a signal at this corner for a test sight from one of the high points visible to the west.

	September 23, 1903.
	S.89°59'W. on the secant through sec. 32
	Descending through thick heavy pine timber.
21.00	Ravine 200 ft. deep; spring branch in bottom 3 lks. wide, 2 ins. deep, course north.
	Thence over rolling ground.
23.00	Leave heavy pine timber and enter fallen timber bears N 5°E. and S.5°W.

UINTAH SPECIAL BASE LINE THROUGH RANGE 10 WEST.

Chains.	
	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	S.1.00 ft.from the secant
	Set a sandstone 16x6x6 l s.11 ins.in the ground,for standard $\frac{1}{4}$ sec.cor.,marked S C $\frac{1}{4}$ on the N.face;from which
	A pine 4 ins.diam.bears N.30°E.30 lks.dist.
	marked S.C $\frac{1}{4}$ S.32 B T
	No other bearing trees within limits;raise a mound of stone 3 ft.base $1\frac{1}{2}$ ft.high N.of cor.
	Pits impracticable.
48.00	Small ravine 40 ft.deep,course N.6°W.;ascend.
60.00	Top of spur 40 ft.high bears N.and S.
	Descend.
68.50	Ravine 60 ft.deep,spring branch in the bottom 2 lks.wide 3 ins.deep,course N.;ascend.
75.00	Leave fallen timber and enter heavy live pine timber bears N.10°W.and S.10°E.
	Difference between measure ents of 80.00 chs.by two sets of chainmen is 8 lks.;position of middle point
	By 1st set 80.04 chs.
	By 2nd set 79.96 chs.,the mean of which is
80.00	Set a sandstone 16x9x8 ins.11 ins.in the ground,for standard cor.of secs.31 and 32,marked S C on the N.face, with 5 grooves on the E.and 1 groove on W.face;from which
	A pine 30 ins.diam.bears N.45°E.10 lks.dist.
	marked T 1 N R.10 W S 32 B T
	A pine 8 ins.diam.bears N.56°W.47 lks.dist.
	marked T 1 N R 10 W S 31 B T
	Land mountainous.
	Soil sandy and stony;2nd and 4th rate.
	Timber pine.
	Mountainous or heavily timbered land on 80.00 chs.

UINTAH SPECIAL BASE LINE THROUGH RANGE 10 WEST.

Chains	
	S.89°58'W.on the secant S.of sec.31
	Ascending through heavy pine timber and fallen timber.
1.00	Leave pine and enter small aspen timber bears N.and S.
6.00	Top of spur 50 ft.hightprojects N.30°E.
	Descend.
33.00	Ravine 60 ft.deep,spring branch 2 lks.wide 2 ins.deep, course N.20°W.ascend.
38.00	Top of spur projects N.W.;descend.
	Leave aspen timber bears N.and S.
	Difference between measurements of 40.00 chs.by two sets of chainmen is 3 lks.;position of middle point
	By 1st set 39.98½ chs.,
	By 2nd set 40.01½ chs.,the mean of which is
40.00	N.1.27 ft.from the secant
	Set a sandstone 16x10x6 ins.11 ins.in the ground,for standard ¼ sec.cor.,marked S C ¼ on the N.face;raise a mound of stone 2 ft.base 1½ ft.high N.of corner.
	Pits impracticable.
55.00	Ravine 30 ft.deep,course N.70°W.
	Ascend.
62.00	Top of spur 40 ft.high bears N.20°W.;descend.
70.00	Enter heavy aspen timber bears N.30°W.and S.30°E.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 10 lks.;position of middle point
	By 1st set 80.05 chs.
	By 2nd set 79.95 chs.,the mean of which is
80.00	N.2.83 ft.from the secant
	Set a porphyry stone 16x8x6 ins.11 ins.in the ground for standard corner of Tps.1 N.Rs.10 and 11 W.,marked S C on N.face,with 6 grooves on N.E.and W.faces;from which
	An aspen 12 ins.diam.bears N.60°E.,25 lks. dist. marked T 1 N R 10 W S 31 B T
	An aspen 14 ins.diam.bears N.40°W.28 lks.dist. marked T 1 N R 11 W S 36 B T
	Land mountainous.

UINTAH SPECIAL BASE LINE THROUGH RANGE 10 WEST.

Chains.

Soil sandy 2nd rate.

Timber pine and aspen.

Mountainous land 80.00 chs.

September 23,1903.

For general description see subdivision of this township.

John W. McKinnon
U.S.Deputy Surveyor.

Volume
#
R0311

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

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

.....

owing the respective capacities in which they acted:

....., *Chainman.*

For final affidavits see book "O" T.1 N.R.11 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

ose parts or portions of the .....

.....

.....

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

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

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

eneral for .....

or final affidavits see book "O" T.1 N.R.11 W. ....., *Chainman.*

....., *Chainman.*

....., *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 afridavit see book "O" T.1 N.R.11 W.

_____ 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, December 12th, 1904.

The foregoing field notes of the survey of the Uintah Special Base Line through Range No.10 West of the Uintah Special Base and Meridian, Utah,

executed by John W. McKim under his contract No. 277, dated July 22, 1903, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward A. 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.

6-171

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PAGE

4—679.

BOOK A-311

"B"

FILED

SEP 30 1904

FIELD NOTES

OF THE SURVEY OF THE

WEST BOUNDARY

OF

TOWNSHIP NO. 1 NORTH

RANGE NO. 10 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

John W. McKim, *United States Deputy Surveyor,*

er his Contract No. 277, *dated* July 22, *190*3.

ey commenced September 26, *190*3

ey completed October 11, *1903.*

6—151

Sketch 2.26.18 r

Closing 2.18

NAMES AND DUTIES OF ASSISTANTS.

Ray Streeper	Chainman.
Lyman Haymond	Chainman.
John Streeper	Moundman.
Henry W.Curtis	Axman
George Russell	Axman.
James S.Houtz	Flagman.

6—161

Volume

#

R0311

BOOK A-311

INDEX DIAGRAM.

Township 1 North, *Range* 10 West.

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

3
2
1

Meanders Page.....

6—121

PRELIMINARY OATHS OF ASSISTANTS.

WE, Ray Streeper and Lyman Haymond

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 W bdy of T 1N R 10 W, W & N bdys of T 2 N R 9 W and N bdy of T 3 N R 9 W of the Uintah Special Base and Meridian Utah

Ray Streeper, Chainman.

Lyman Haymond, Chainman.

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

SEAL

John W McKim
U.S. Deputy Surveyor

I, John Streeper, 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 W bdy of T 1N R 10 W, W & N bdys of T 2 N R 9 W and N bdy of T 3 N R 9 W of the Uintah Special Base and Meridian Utah

John Streeper, Moundman.

, Moundman.

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

SEAL

John W McKim
U.S. Deputy Surveyor

WE, Henry W. Curtis and George Russell,

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 W bdy of T 1N R 10 W, W & N bdys of T 2 N R 9 W and N bdy of T 3 N R 9 W of the Uintah Special Base and Meridian Utah

Henry W. Curtis, Axman.

George Russell, Axman.

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

SEAL

John W McKim
U.S. Deputy Surveyor

I, James S. Houtz, 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 W bdy of T 1N R 10 W, W & N bdys of T 2 N R 9 W and N bdy of T 3 N R 9 W of the Uintah Special Base and Meridian Utah

James S. Houtz, Flagman.

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

SEAL

John W McKim
U.S. Deputy Surveyor

C—151

WEST BOUNDARY OF T.1 NORTH R.10 WEST.

Chains

Survey commenced September 26 1903, and executed with a C.L.Berger and Sons transit for description of which see book "A" of this survey.

I begin at the standard cor. of Tps.1 N.Rs.10 and 11 W. heretofore described, in latitude 40°26.3'N., longitude 111°05.7'W., at 4 h.38.7 m.a.m. by my watch which is 3 minutes slow of l.m.t. I observe Polaris in position in accordance with instructions in the Manual and mark the line thus determined by a tack driven in a wooden peg set in the ground 7.00 chs.N. of my station.

Astron. time of obs. Sept.25..... .....16 h.31.7 m.

Astron. time U.C. Polaris Sept.15, 13 h.49.0 m

Reduced to Sept.25, subtract 39.3

13 h.09.7 m.

Subtract..... 13 09.7

Time argument 3 22.0

Azimuth of Polaris at obs..... 1° 15'W.

At 7.30 a.m. I lay off the azimuth of Polaris 1°15' to the east and mark the meridian thus determined by a cross on a stone set firmly in the ground east of the point established this a.m.

The magnetic bearing of the true meridian is N.16°55'W. which gives the magnetic declination 16°55'E.

From the standard corner above mentioned I run

North bet.secs.31 and 36

Ascending through aspen timber.

7.00 Leave aspen timber bears N.20°W. and S.20°E.

7.50 Top of spur 30 ft. above cor. bears N.60°W.; descend through pine and aspen timber standing fire-killed pine timber and fallen pine timber.

40.00 Set a sandstone 18x6x5 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 S.58°E. 30 lks. dist.

WEST BOUNDARY OF TP.1 N.R.10 W.

Chains.	
	marked ¼ S 31 B T
	A pine 30 ins.diam.bears S.60°W.125 lks.dist.
	marked ¼ S 36 B T.
41.00	Ravine 100 ft.deep,course N.35°E.
	Leave timber bears N.48°E.and S.48°W.
	Ascend.
63.00	Top of spur 130 ft.high projects N.40°E.;thence abrupt descent toward West Fork of the DuChesne River.
70.00	Enter scattering pine timber bears N.43°E.and S.43°W.
80.00	Set a red sandstone 20x10x6 ins.15 ins.in the ground for cor.of secs.25,30,31,and 36,marked with 5 notches on N. and 1 notch on S.edge and raise a mound of stone 2 ft. base 1½ ft.high W.of corner,from which
	A pine 18 ins.diam.bears N.30°E.55 lks.dist.
	marked T 1 N R 10 W S 30 B T
	An aspen 5 ins.diam.bears N.34°W.20 lks.dist.
	marked T 1 N R 11 W S 25 B T
	No other bearing trees within limits; [illegible]
	Pits impracticable.
	Land mountainous.
	Soil sandy and rocky;2nd and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.

North bet.secs.25 and 30

	Descending through scattering pine and aspen timber and over slide rock.
12.00	Leave timber and slide rock,bears E.and W.
15.00	West Fork of DuChesne River,clear mountain stream 25 lks wide,6 ins.deep,course E.
	Ascend.
25.50	Indian trail from Heber City to White Rock Indian Agency

Chains.	
	bears E.and W.
26.00	Enter aspen timber bears E.and W.
40.00	Set a sandstone 15x8x5 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which An aspen 8 ins.diam.bears N.8°E.51 lks.dist. marked ¼ S 30 B T An aspen 8 ins.diam.bears N.21°W.31 lks.dist. marked ¼ S 25 B T
48.00	Top of spur 50 ft.above DuChesne River projects S.35°E. Descend.
60.00	Ravine 20 ft.deep;also spring branch 1 lk.wide,2 ins.deep course S.60°E.;ascend.
77.00	Leave aspen timber bears N.30°W.and S.30°E.
79.50	Top of spur projects S.40°E.
80.00	Set a sandstone 18x10x6 ins.12 ins.in the ground for cor. of secs.19,24,25,and 30,marked with 4 notches on N.and 3 notches on S.edge;raise a mound of stone 2 ft.base 1½ ft.high W.of corner;from which An aspen 7 ins.diam.bears N.61°E.84 lks.dist., marked T 1 N R 10 W S 19 B T An aspen 8 ins.diam.bears S.66°W.242 lks.dist. marked T 1 N R 11 W S 25 B T No other bearing trees within limits. Pits impracticable. Land mountainous. Soil sandy and stony;3nd and 4th rate. Timber pine and aspen. Mountainous land 80.00 chs. On account of N. bdy. not surveyed I discontinue here.

September 26, 1903.

Oct. 11, 1903. Beginning at the corner of secs.19, 24, 25, 30, I run North bet.secs.19 and 24

	Ascending along N.E.slope through scattering pine and aspen timber.
7.00	Leave aspen and enter pine timber bears E.and W.
8.00	Small spring on line.
12.00	Leave pine timber bears E.and W.

Chains.	
	Thence ascend abruptly
26.58	Top of dividing ridge bears N.E. and S.W.
	Intersect the W. boundary of the Uintah Indian Reservation
	Set a sandstone 24x18x8 ins. 18 ins. in the ground for closing corner for Tps. 1 N. Rs. 10 and 11 W., marked C C U I R with 2 grooves on S. & 6 grooves on the E. and W. faces; and U F R on N. face; and raised a mound of stone 2 ft. base 1½ ft. high S. of cor. Pits impracticable.
	From this closing corner the half-mile cor. between mile posts Nos. 158 and 159 on the boundary as established by Deputies A.H. and F.M. Brown under their contract No. 264 bears S. 82 15 W. 2.18 chs. dist. from half-mile corner bet. mile posts Nos. 158 and 159.
	Land mountainous.
	Soil sandy 3rd rate.
	Timber pine and aspen.
	Mountainous land 26.58 chs.
	Oct. 11, 1903.

For general description see notes of subdivision of T.1 N.R.10 W.

John W. McKinnon
U.S. Deputy Surveyor.

LATITUDES, DEPARTURES AND CLOSING ERRORS.

Line designated	True bearing	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
E.bdy.T.1 N., R. 10 W.	SOUTH	431.58	.....	431.58	.....	.....
Uintah Special Base) through R. 10 W.)	West	480.00	.....	.....	.....	480.00
W.bdy.T.1 N.,R.10 W.	North	186.58	186.58	.....	.....	.....
W.bdy.U.I.R.	N.82°15'E.	26.82	3.62	.....	26.57	.....
	N.18°15'E.	21.00	19.93	.....	6.57	.....
	N.56°00'E.	15.00	8.39	.....	12.43	.....
	N.73°45'E.	15.00	4.20	.....	14.40	.....
	N.83°15'E.	80.00	9.40	.....	79.44	.....
	N.45°15'E.	11.60	8.16	.....	8.24	.....
	N.64°45'E.	13.10	5.59	.....	11.84	.....
	N.78.15'E.	25.30	5.15	.....	24.77	.....
	N.19°15'W.	30.00	28.32	.....	.....	9.89
	N. 8°30'E.	40.00	39.56	.....	5.91	.....
	N.40°45'E.	10.00	7.57	.....	6.53	.....
	N.70°00'E.	4.90	1.68	.....	4.60	.....
	N.83°45'E.	44.90	4.90	.....	44.63	.....
	N.50°15'E.	48.20	30.83	.....	37.05	.....
	N.81°15'E.	36.30	5.53	.....	35.88	.....
	S.66°00'E.	10.70	.....	4.35	9.77	.....
	N.70°15'E.	4.50	1.52	.....	4.23	.....
	N. 6°45'E.	14.00	13.90	.....	1.64	.....
	N.19°00'E.	18.00	17.01	.....	5.85	.....
	N. 5°00'W.	21.00	20.92	.....	.....	1.83
	N. 9°45'E.	25.20	24.83	.....	4.27	.....
	N. 7°15'W.	2.30	2.28	.....	.....	0.29
	N. 0°15'E.	17.40	17.39	.....	.09	.....
	N.65°30'E.	14.60	6.06	.....	13.29	.....
	S.63°00'E.	27.10	.....	12.31	24.14	.....
	S.84°00'E.	27.90	.....	2.91	27.75	.....
	N. 4°45'W.	13.50	13.46	.....	.....	1.12
	N.54°00'E.	10.50	6.17	.....	8.49	.....
	N.78°30'E.	21.80	4.35	.....	21.35	.....
	S.82°30'E.	8.20	.....	1.07	8.13	.....
	S.53°30'E.	9.70	.....	5.77	7.79	.....
	S.36°30'E.	25.60	.....	20.58	15.23	.....
	S.83°30'E.	6.20	.....	.69	6.16	.....
	S.55°45'E.	6.20	.....	3.49	5.13	.....
	S.33°00'E.	18.18	.....	15.25	9.91	.....
					.46	
Convergency						
Totals			497.30	498.00	492.54	493.13
				497.30		492.54
Error in lat.				.70		
Error in dep.						.59

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

For final affidavits see book "J" T.3 N.R.9 W., *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

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

For final affidavits see book "J" T.3 N.R.9 W., *Chainman.*

_____, *Chainman.*

_____, *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" T.3 N.R. 9 W.

_____ 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.

_____
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, December 12th, 1904.

The foregoing field notes of the survey of the West Boundary of Township No.1 North, Range No.10 West of the Uintah Special Base and Meridian, Utah,

executed by John W. McKim under his contract No. 277, dated July 22 1903, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward Kaufmann
United States Surveyor General.

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

_____
United States Surveyor General.

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4—679.

BOOK A-311
"C".

FILED
SEP 30 1904

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 1 NORTH

RANGE NO. 10 WEST

Of the UINTAH SPECIAL BASE AND *Meridian,*

UTAH

AS SURVEYED BY

John W. McKim, *United States Deputy Surveyor,*

nder his Contract No. 277, *dated* July 22, *190*3.

rvey commenced September 26, *190*3

rvey completed October 11, *190*3.

6—151

[illegible] 12-12-61 ✓

[illegible] 1-35-62 ✓

NAMES AND DUTIES OF ASSISTANTS.

Ray Streeper	Chainman.
Lyman Haymond	Chainman.
John Streeper	Moundman.
Henry W.Curtis	Axman.
George Russell	Axman.
James S.Houtz	Flagman.

6—151

Volume
#
R0311

BOOK A-311

INDEX DIAGRAM.

Township 1 North, *Range* 10. West

6	5	4	3	2 10 19	1 9
7	8	9 27 34	10 18 27	11 8 17	12 7
18	17 33 41	16 26 33	15 16 25	14 6 16	13 6
19 40 39	20 32 38	21 24 31	22 15 23	23 5 14	24 4
30 37 37	29 30 36	28 22 29	27 13 31	26 3 13	25 2
31 35	32 28	33 20	34 11	35 1	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Ray Streeper and Lyman Haymond,

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.1N.,R.10W; T.1N.,R.11W; T.2N.,R.9W; T.2N.,R.10W; T.3N.,R.9W and T.4N.,R.9W of the Uintah Special Base and Meridian, Utah.

Ray Streeper, Chainman.

Lyman Haymond, Chainman.

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

SEAL

John W. McKinnon
U.S. Deputy Surveyor

I, WE, John Streeper, and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the subdivision of T.1N.,R.10W; T.1N.,R.11W; T.2N.,R.9W; T.2N.,R.10W; T.3N., and T.4N.,R.9W of the Uintah Special Base and Meridian, Utah.

John Streeper, Moundman.

, Moundman.

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

SEAL

John W. McKinnon
U.S. Deputy Surveyor

WE, Henry W. Curtis, and George Russell,

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 the subdivision of T.1N.,R.10W; T.1N.,R.11W; T.2N.,R.9W, T.2N.,R.10W; T.3N.,R. and T.4N.,R.9W of the Uintah Special Base and Meridian, Utah.

Henry W. Curtis, Axman.

George Russell, Axman.

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

SEAL

John W. McKinnon
U.S. Deputy Surveyor

I, James S. Hautz, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision of T.1N.,R.10W.,T.1N.R.11W., T.2N.R.9W.;T.2N.R.10W.;T.3N. and T.4N.,R.9W. of the Uintah Special Base and Meridian, Utah.

James S. Hautz, Flagman.

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

SEAL

John W. McKinnon
U.S. Deputy Surveyor

6—151

SUBDIVISION OF T.1 NORTH

Chains

Survey commenced September 26,1903,and executed with a C.L.Berger and Sons transit,for a description of which see book "A" of this survey.

I examine the adjustments of the instrument and find the correct.

I begin at the standard corner of secs.35 and 36 on the S. S.bdy.of the Tp.,heretofore described,lat.40°26N.long. 111°0'.W.

At this corner at 7 h.11 m.p.m.l.m.t.I observe Polaris at eastern elongation in accordance with instructions in the Manual,and mark the line thus determined by a tack driven in a woodon plug set in the ground 5 chs.N.of cor.

Sept.26,1903.

Sept.27,1903,at 7 h.10 m.a.m.l.m.t.I lay off the azimuth of Polaris 1°35.5' to the W.;and mark the true meridian thus determined by cutting a mark on the stone set 5 chs. N.of corner.

The magnetic bearing of the meridian thus determined is N.16°55'W.,which gives the magnetic decl.16°55'E.

From the corner above described I run

N.0°01'W.bet.secs.35 and 36

Descending along west slope of high spur projecting N.

38.00 Gulch 350 ft.below cor.course N.30'E.

40.00 Set a sandstone 14x8x6 ins.9 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base 1$\frac{1}{2}$ ft.high W.of corner

Pits impracticable.

Ascend.

SUBDIVISION OF T.1 N.R.10 W.

Chains	
55.0	Top of ridge 70 ft.high above gulch bears E.and W.;
	Descend along E.slope of ridge.
56.00	Enter heavy pine and aspen timber bears E.and W.
79.50	Gulch 100 ft.deep,course E.
	Ascend abruptly.
	Leave timber bears E.and W.
80.00	Set a quartzite stone 14x6x6 ins.9 ins.in the ground for cor.of secs.25,26,35,and 36,marked with 1 notch on S.and E.edges;raise a mound of stone 2 ft.base 1½ ft. high W.of corner.Pits impracticable.
	The corner is situated near the edge of cliff to the east.
	Land mountainous.
	Soil sandy and rocky;2nd and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.
	September 27,1903.

September 28,1903.

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

40.00	Set temp.¼ sec.cor.
79.87	Intersect E.bdy.of Tp.13 lks.N.of cor.of secs.25,30,31 and 36,which is a red sandstone 8x13x5 ins.above ground marked and witnessed as described by Deputy Johnson under his contract No.276.
	Thence I run
	N.89°55'W.on a true line bet.secs.25 and 36
	Over mountainous land along N.slope of ridge,th[illegible] dense underbrush and over slide rock. Descend.
39.93½	Set a sandstone24x12x10 ins. 18 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.
44.00	Ravine 60 ft.deep,course N.;ascend.
47.77	Top of a red sandstone cliff;ascend.

SUBDIVISION OF T.1 N.R.10 W.

Chains

69.90 Top of spur 100 ft.high projects N.
Descend abruptly.

78.90 Ravine 100 ft.deep.course N.
Ascend abruptly.

79.83 Top of perpendicular cliff 70 ft.high. Descend.

79.87 The cor.of secs.25,26,35,and 36.
Land mountainous.
Soil sandy and rocky;3rd and 4th rate.
No timber.
Mountainous land covered with dense undergrowth 79.87 chs.

N.0°01'W.bet.secs.25 and 26

Descending through small aspen timber and dense under-brush.

17.20 Brow of south bluff of West Fork of DuChesne River.
Descend abruptly.

22.75 Bottom of bluff bears E.and W.

23.85 West Fork of DuChesne River 10 lks.Wide 10 ins.deep, course E.

31.00 Across creek bottom and foot of bluff on the north;
Ascend.

38.90 Top of sharp hogback.
Trail Heber City to White Rock Agency bears E.and W.
Descend.

40.00 Set a red sandstone 14x10x4 ins.9 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.
Pits impracticable.

42.00 Ravine 30 ft.deep,course S.80°E.
Ascend.

68.20 Top of spur 80 ft.high projects SE. Descend.

73.10 Gulch 40 ft.deep,small creek 2 lks.wide,3 ins.deep, course S.30°E.;ascend.

SUBDIVISION OF T.1 N.R.10 W.

Chains	
80.00	Set a sandstone 12x8x6 ins.8 ins.in the ground for cor. of secs.23,24.25,and 26,marked with 2 notches on S.and 1 notch on E.edge;raise a mound of stone 3 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.
	No timber.
	Mountainous land covered with dense undergrowth 80.00 chs.

S.89°55'E.on a random line bet.secs.24 and 25

40.00	Set temp.¼ sec.cor.
79.76	Intersect E.bdy.of Tp.9 lks.N.of cor.of secs.19,24,25 and 30,which is a porphyry stone 6x7x5 ins.above ground marked and witnessed as described by Deputy Johnson under his contract No.276.Thence I run

N.89°51'W.on a true line bet.secs.24 and 25

	Over mountainous land through aspen timber;and dense
[illegible]	undergrowth;descending.
35.00	Draw drains SW.;ascend.
39.50	Top of spur 40 ft.high projects SE. Descend
39.88	Set a red sandstone 18x8x4 ins.12 ins.in the ground for ¼ sec.cor..marked ¼ on N.face;from which

An aspen 9 ins.diam.bears N.32°E.19 lks.dist. marked ¼ S 24 B T

An aspen 7 ins.diam.bears S.65°E.210 lks.dist.. marked ¼ S 25 B T

45.00	Draw 60 ft.deep,course S.38°E.;ascend.
72.00	Leave aspen timber bears N.45°W.and S.45°E.
75.00	Top of spur projects S.40°E.. Descend.
79.76	The cor.of secs.23,24,25,and 26.
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.

SUBDIVISION OF T.1 N.R.10 W.

Chains

Timber aspen.

Mountainous land,heavily timbered or covered with dense undergrowth 79.76 chs.

September 28,1903.

September 29,1903.

N.0°01'W.bet.secs.23 and 24

Ascending along west slope of spur.

10.00 Enter dense undergrowth and aspen timber bears NW and SE.

40.00 Set a sandstone 17x9x5 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which

An aspen 8 ins.diam.bears N.35°E.90 lks.dist. marked $\frac{1}{4}$ S 24 B T

An aspen 3 ins.diam.bears N.89°W.56 lks.dist. marked $\frac{1}{4}$ S 23 B T

55.00 Spur 40 ft.high projects S.E. Descend

80.00 Head of draw,course S.E.

Set a red sandstone 16x8x6 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

An aspen 7 ins.diam.bears N.53°E.99 lks.dist. marked T 1 N R 10 W S 13 B T

An aspen 6 ins.diam.bears S.40°E.136 lks.dist. marked T 1 N R 10 W S 24 B T

An aspen 10 ins.diam.bears S.86°W.5 lks.dist. marked T 1 N R 10 W S 23 B T

An aspen 10 ins.diam.bears N.68°W.107 lks.dist. marked T 1 N R 10 W S 14 B T

Land mountainous.

Soil sandy and stony 2nd and 4th rate.

Timber aspen.

Mountainous land 80.00 chs.

SUBDIVISION OF T.1 N.R.10 W.

Chains.	
	S.89°51'E.on a random line bet.secs.13 and 24
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.80	Intersect E.bdy.of Tp.5 .lks.N.of cor.of secs.13,18,19 and 24,which is a porphyry stone 6x9x6 ins.above ground firmly set and marked and witnessed as described by Deputy Johnson under his contract No.276.
	Thence I run
	N.89°49'W.on a true line bet.secs.13 and 24
	Over mountainous land;through heavy aspen timber;
	Descend.
15.00	Draw 60 ft.deep,course S.70°E.;ascend.
28.00	Spur 40 ft.high bears S.50°E.;descend.
35.00	Draw course S.;small spring bears N.2.00 chs.Ascend.
39.90	Set a porphyry stone 16x12x4 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	An aspen 10 ins.diam.bears N.66°W.168 lks.dist. marked $\frac{1}{4}$ S 13 B T
	An aspen 5 ins.diam.bears S.12°E.60 lks.dist. marked $\frac{1}{4}$ S 24 B T
45.00	Spur projects S.;descend.
60.00	Draw 80 ft.deep,course SE;ascend.
75.00	Spur 70 ft.high projects SE.;descend.
79.80	The cor.of secs.13,14,23 and 24.
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.
	Timber aspen.
	Mountainous land,heavily timbered 79.80 chs.

	N.0°01'W.bet.secs.13 and 14
	Ascending through heavy aspen timber.
15.00	Spur projects S.E.;descend.
19.00	Head of draw course S.E. ;ascend.
	Leave aspen timber bears E.and W.
24.00	Wolf Creek Ridge bears N.85°E.and S.85°W.;descend.

S U B D I V I S I O N O F T.1 N.R.10 W.

Chains

25.00 Enter heavy pine and aspen timber bears E.and W.

40.00 Set a sandstone 25x15x4 ins.19 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which

An aspen 5 ins.diam.bears S.50°E.28 lks.dist. marked ¼ S 13 B T

An aspen 7 ins.diam.bears S.34°W.16 lks.dist. marked ¼ S 14 B T

55.00 Leave timber bears NW. and SE.

60.00 Bottom of ravine 70 ft.deep,course N.40°E.

Ascend.

67.00 Enter aspen timber bears E.and W.

78.00 Spur projects SE. Descend.

80.00 Head of draw course SE.

Set a porphyry stone 30x10x8 ins.15 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 6 ins.diam.bears N. 34°E.80 lks.dist. marked T 1 N R 10 W S 12 B T

An aspen 9 ins.diam.bears S.74°E.41 lks.dist. marked T 1 N R 10 W S 13 B T

An aspen 9 ins.diam.bears S.36°W.56 lks.dist. marked T 1 N R 10 W S 14 B T

An aspen 8 ins.diam.bears N.22°W.56 lks.dist. marked T 1 N R 10 W S 11 B T

Land mountainous.

Soil sandy and stony;3rd and 4th rate.

Timber pine and aspen.

Mountainous land 80.00 chs.

September 29,1903.

September 30,1903.

S.89°49'E.on a random line bet.secs.12 and 13

40.00 Set temp.¼ sec.cor.

Chains	
79.76	Intersect E.bdy.of Tp.4 lks.N.of cor.of secs.7,12,13, and 18,which is a porphyry stone 6x6x6 ins.above ground firmly set and marked and witnessed as described by Deputy Johnson under his contract No.276.
	Thence I run
	N.89°47'W.on a true line bet.secs.12 and 13
	Over mountainous land through aspen timber. Descending.
0.25	Enter dry lake,bears N.and S.
2.80	Leave dry lake bears N.and S. Ascend.
10.00	Spur 20 ft.high projects S.E. Descend.
13.00	Wolf Creek Trail bears E.and W.
17.00	Bottom of Wolf Creek,no water,drains S.85°E. Ascend.
	Leave aspen timber and enter heavy pine timber bears NW and SE.
39.88	Set a porphyry stone 20x13x6 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 6 ins.diam.bears N.41°E.20 lks.dist.
	marked ¼ S 12 B T
	A pine 8 ins.diam.bears S.30°E.29 lks.dist.
	marked ¼ S 13 B T
40.50	Bottom of ravine course NE.;ascend.
57.00	Leave pine and enter aspen timber bears NE and SW.
65.00	Draw course NE;ascend.
70.00	Spur 40 ft.high projects SE;descend.
78.00	Draw course SE.Ascend.
79.76	The cor.of secs.11,12,13,and 14.
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land heavily timbered on 79.76 chs.

	N.0°01'W.bet.secs.11 and 12
	Ascending through heavy aspen timber.
10.00	Spur projects S.85°E.;descend.
11.00	Leave aspen and enter pine timber bears E.and W.
	Descend.

SUBDIVISION OF T.1 N.R.10 W.

Chains

36.00 Bottom of Left Fork of Wolf Creek,no water,drains E.

Ascend.

38.50 Wolf Creek Trail bears E.and W.

Leave pine and enter aspen timber bears E.and W.

40.00 Set a porphyry stone 17x10x4 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which

An aspen 5 ins.diam.bears S.87°E.18 lks.dist.

marked ¼ S 12 B T

An aspen 7 ins.diam.bears N.55°W.31 lks.dist.

marked ¼ S 11 B T

42.00 Spur projects SE;descend.

47.00 Draw course SE.;ascend.

53.00 Spur projects SE.;descend.

62.00 Bottom of Middle Fork of Wolf Creek,no water,drains SE.

Ascend through scattering pine and aspen timber and over slide rock.

80.00 Set a porphyry stone 13x8x5 ins.9 ins.in the ground for cor.of secs.1,2,11,and 12;marked with 5 notches on S. and 1 notch on E.edge;from which

A pine 10 ins.diam.bears N.19°E.34 lks.dist.

marked T 1 N R 10 W S 1 B T

A pine 6 ins.diam.bears S.38°E.30 lks.dist.

marked T 1 N R 10 W S 12 B T

An aspen 4 ins.diam.bears S.29°W.45 lks.dist.

marked T 1 N R 10 W,S,11 B T

A pine 6 ins.diam.bears N.70°W.33 lks.dist.

marked T 1 N R 10 W S 2 B T

Land mountainous.

Soil sandy and rocky;3d and 4th rate.

Timber pine and aspen.

Mountainous land heavily timbered 80.00 chs.

S.89°47'E.on a random line bet.secs.1 and 12

40.00 Set temp.¼ sec.cor.

79.80 Intersect E.bdy.of Tp.12 lks.S.of cor.of secs.1,6,7,

Chains.	
	and 12,which is a porphyry stone 6x10x5 ins.above ground firmly set and marked and witnessed as described by Deputy Johnson under his contract No.276. Thence I run
	N.89°52'W.on a true line bet.secs.1 and 12
	Descending through thick,heavy pine timber.
33.00	Leave heavy pine and enter scattering pine and aspen timber bears N.and S.
39.90	Set a porphyry stone 19x9x5 ins.14 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	An aspen 10 ins.diam.bears N.51°W.33 lks.dist. marked ¼ S 1 B T
	An aspen 11 ins.diam.bears S.11°W.67 lks.dist. marked ¼ S 12 B T
47.00	Bottom of Right Fork of Wolf Creek,clear mountain stream, 4 lks.wide,4 ins.deep,gravelly bottom,drains S.10°E.
52.00	Ascend over slide rock bears NE.and SW .
68.00	Top of spur 500 ft.high projects SE.;descend.
79.80	The cor.of secs.1,2,11,and 12.
	Land mountainous.
	Soil sandy and rocky;3d and 4th rate.
	Timber pine and aspen.
	Mountainous,land heavily timbered,79.80 chs.
	West Bdy.of Uintah Reservation,not having been established N.of this point I abandon further survey north at this date. September 30,1903.
	October 20,1903: Knowing that the line bet.secs.1 and 2 will intersect the W.Bdy.of the Uintah Indian Reservation,I run,from the cor.of secs.1,2,11,and 12
	N.0°01'W.bet.secs.1 and 2 on true line
	Ascending through scattering pine and aspen timber,and over slide rock.
24.00	Top of spur 300 ft.high projects S.20°E.;descend.
36.00	Draw course SE.;ascend.
40.00	Set a sandstone 25x6x4 ins.19 ins.in the ground for ¼

SUBDIVISION OF T.1 N.R.10 W.

sec.cor.;marked 1/4 on W.face;from which,

Chains.

A pine 8 ins.diam.bears N.64°E.50 lks.dist.

marked 1/4 S 1 B T

A pine 9 ins.diam.bears N.63°W.73 lks.dist.

marked 1/4 S 2 B T

Ascend.

69.64 Top of dividing ridge bears NE and SW.

Intersect west boundary of the Uintah Indian Reservation,

Set a sandstone 24x18x8 ins.18 ins.in the ground for closing corner for secs.1 and 2 marked CCUIR with 6 grooves on S.,1 groove on E.and UFR on N.faces;from whi which

A pine 10 ins.diam.bears S.43°E.14 lks.dist.

marked T 1 N R 10 W S 1 B T

A pine 30 ins.diam.bears S.27°W.35 lks.dist.

marked T 1 N R 10 W S 2 B T

From this closing corner the 166th mile corner on the boundary as established by Deputies A.H.and F.H.Brown under their contract No.264 bears as follows:

S.54°00'W.2.80 chs.;thence

S.4°45'E.13.50 chs.;thence

N.84°00'W.7.00 chs.to mile post No.166

Land mountainous.

Soil sandy and rocky 3rd and 4th rate.

Timber pine and aspen.

Mountainous land 69.64 chs.

October 20,1903.

October 1,1903.

From the standard corner of secs.34 and 35 on S.bdy.of Tp.,heretofore described I run

N.0°02'W.bet.secs.34 and 35

Descending through thick fallen timber and scattering

SUBDIVISION OF T.1 N.R.10 W.

Chains.	
	live scrub aspen timber.
20.00	Small draw course NE;ascend.
27.00	Small spur projects NE;descend.
30.00	Enter thick scrub aspen timber bears E.and W.
40.00	Set a porphyry stone 16x14x8 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which An aspen 4 ins.diam.bears S.69°E.29 lks.dist. marked $\frac{1}{4}$ S 35 B T An aspen 3 ins.diam.bears N.53°35'W.10 lks.dist. marked $\frac{1}{4}$ S 34 B T.
54.00	Draw,spring branch in bottom 5 lks.wide,3 ins.deep, rocky bottom course N.15°E.;ascend.
60.00	Spur 20 ft.high projects NE.;descend.
63.00	Small canon,creek 7 lks.wide 5 ins.deep,clear mountain stream,rocky bottom,course N.10°W.;ascend.
69.00	Spur of rocks projects west;Descend.
76.00	Small canon creek 7 lks.wide,3 ins.deep,course N.10°E.Asc.
80.00	Set a sandstone 16x10x6 ins.11 ins.in the ground for cor.of secs.26,27,34,and 35,marked with 1 notch on S.and 3 notches on E.edge;from which An aspen 3 ins.diam.bears N.68°E.16 lks.dist. marked T 1 N R 10 W S 26 B T An aspen 3 ins.diam.bears S.40°E.15 lks.dist. marked T 1 N R 10 W S 35 B T An aspen 3 ins.diam.bears S.3°W.17 lks.dist. marked T 1 N R 10 W S 34 B T An aspen 3 ins.diam.bears N.7°W.70 lks.dist. marked T 1 N R 10 W S 27 B T
	Land mountainous.
	Soil sandy and rocky;2nd and 4th rate.
	Timber aspen.
	Mountainous land covered with live and fallen timber 80.00 chs.

SUBDIVISION OF T.1 N.R.10 W.

Chains	
	East on a random line bet.secs.26 and 35
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line 3 lks.N.of the cor.of secs.25,26 35 and 36;thence I run
	N.89°59'W.on a true line bet.secs.26 and 35
	Along north slope of the ridge south of West Fork of DuChesne River;
	Ascend through dense underbrush,over mountainous land.
5.00	Top of point;ascend.
6.50	Enter aspen timber bears N.and S.
28.00	Leave aspen timber.
	Top of spur projects NE.
	Enter fallen timber;descend.
39.98	Set a quartzite stone 18x9x7 ins.12 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. Descend.
76.50	Creek 4 lks.wide,in bottom of small canon,course NE.Ans.
79.96	The corner of secs.26,27,34,and 35.
	Land mountainous.
	Soil sandy and rocky;3rd and 4th rate.
	Timber aspen.
	Mountainous land,heavily timbered,covered with dense undergrowth or fallen timber 79.96 chs.
	N.0°02'W.bet.secs.26 and 27
	Ascending through small aspen timber.
15.00	Spur projects NE;descend.
	Enter scattering pine timber bears NE and SW.
26.00	Leave pine timber bears E.and W.
32.00	Bottom of West Fork of DuChesne River 30 lks.wide,10 ins.deep,course E.;ascend.
35.00	Indian trail Heber City to White Rock Indian Agency bears E.and W.
40.00	Set a sandstone 18x12x6 ins.12 ins.in the ground for cor.

Chains	
	¼ sec.cor.,marked ¼ on W.face;raise a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
50.00	Spur projects SE;descend.
63.00	Draw course S.E.;ascend.
80.00	Set a sandstone 18x6x6 ins.12 ins.in the ground for cor.of secs.22,23,26,and 27,marked with 2 notches on S. and E.edges;raise a mound of stone 2 ft.base 1½ ft.high W.of corner.Pits impracticable.
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.
	October 1,1903.

Oct.2,1903.

S.89°59'E.on a random line bet.secs.23 and 26

40.00	Set temp.¼ sec.cor.
79.90	Intersect N.and S.line 2 lks.S.of cor.of secs.23,24,25 and 26;thence I run
	West on a true line bet.secs.23 and 26
	Over mountainous land;descend.
6.00	Draw course S.E.
	Spring branch 4 lks.wide,2 ins.deep,course S.E.
	Enter aspen and scattering pine timber bears N.W.and SE; Ascend.
39.95	Set a sandstone 14x12x4 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which
	An aspen 6 ins.diam.bears N.35°E.28 lks.dist. marked ¼ S 23 B T
	An aspen 7 ins.diam.bears S.37°E.45 lks.dist. marked ¼ S 26 B T
56.50	Spur projects SE; descend.
	Leave aspen and pine timber bears NW and SE.
63.00	Draw course SE;ascend.

SUBDIVISION OF T.1 N.R.10 W.

Chains

70.00 Spur projects SE; descend.

79.90 The cor.of secs.22,23,26,and 27.

Land mountainous.

Soil sandy and stony;3rd and 4th rate.

Timber pine and aspen.

Mountainous land 79.90 chs.

N.0°02'W.bet.secs.22 and 23

Ascend through dense undergrowth.

14.00 Top of ascent;thence steep descent through fire killed pine timber.

2[illegible].00 Dry wash course west;ascend through fallen timber.

34.00 Enter scattering pine and aspen timber bears E.and W.

40.00 Set a sandstone 24x12x12 ins.18 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which

An aspen 10 ins.diam.bears N.54°E.30 lks.dist. marked $\frac{1}{4}$ S 23 B T

An aspen 10 ins.diam.bears N.21°30'W.57 lks.dist. marked $\frac{1}{4}$ S 22 B T

60.00 Enter dense underbrush bears E.and W.

Ascend abruptly;leave aspen timber bears E.and W.

80.00 Set a quartzite stone 24x14x12 ins.18 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;raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of corner.

Pits impracticable.

Land mountainous.

Soil sandy and stony;3rd and 4th rate.

Timber aspen.

Mountainous land covered with dense undergrowth or fallen timber 80.00 chs.

SUBDIVISION OF T 1 N R 10 W

Chains	
	East on a random line bet.secs.14 and 23
40.00	Set temp.$\frac{1}{4}$ sec:cor.
79.94	Intersect N.and S.line 5 lks.N.of the cor.of secs.13,14 23,and 24;thence I run
	N.89°58'W.on a true line bet.secs.14 and 23
	Ascending through aspen timber.
15.00	Top of spur projects S.20°E.;descend.
32.00	Draw course S.30°E.;ascend.
39.97	Set a sandstone 18x9x5 ins:12 ins:in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	An aspen 11 ins.diam.bears S.52°E.148 lks.dist: marked $\frac{1}{4}$ S 23 B T
	An aspen 8 ins.diam.bears N.84°W.44 lks.dist. marked $\frac{1}{4}$ S 14 B T
52.00	Top of spur projects SE;descend.
70.00	Draw course SE;
	Begin steep ascent.
79.94	The cor.of secs.14,15,22,and 23.
	Land mountainous.
	Soil sandy and stone;3rd and 4th rate.
	Timber aspen.
	Mountainous land 79.94 chs.

	North 0°02'W.bet.secs.14 and 15
	Steep ascent through dense undergrowth.
30.00	Summit of Wolf Creek Ridge bears E and W.;descend.
40.00	Set a sandstone 22x14x12 ins.16 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pine 10 ins.diam.bears N.74°W.26 lks.dist. marked $\frac{1}{4}$ S 15 B T
	A pine 8 ins.diam.bears S.10°E.32 lks.dist. marked $\frac{1}{4}$ S 14 B T
	Enter heavy pine timber bears E.and W.
	Descend abruptly.

SUBDIVISION OF T.1 N.R.10 W.

Chains

67.00 Bottom of very steep descent,bears E.and W.

75.80 Left Fork of Wolf Creek,,5 lks.wide,3 ins.deep;sandy bottom;very little water;course N.85°E.Ascend.

Leave pine and enter heavy aspen timber.

77.00 Trail bears NE.and SW.

80.00 Set a sandstone 20x12xG ins.15 ins.in the ground for cor.of secs.10,11,14,and 15;marked with 4 notches on S. and 3 notches on E.edge;from which

An aspen 10 ins.diam.bears N.45°E.50 lks.dist. marked T 1 N R 10 W S 11 B T

An aspen 10 ins.diam.bears S.54°E.42 lks.dist. marked T 1 N R 10 W S 14 B T

An aspen 8 ins.diam.bears S.41°W.54 lks.dist. marked T 1 N R 10 W S 15 B T

An aspen 10 ins.diam.bears N.66°W.28 lks.dist. marked T 1 N R 10 W S 10 B T

Land mountainous.

Soil sandy and stony;3d and 4th rate.

Timber pine.

Mountainous land,heavily timbrred or covered with dense undergrowth 80.00 chs. October 2,1903.

October 3,1903.

S.89°58' E.on a random line bet.secs.11 and 14

40.00 Set temp.¼ sec.cor.

79.98 Intersect N.and S.line 5 lks.S.of the cor.of secs.11, 12,13,and 14;thence I run

West on a true line bet.secs.11 and 14

Ascending through heavy aspen timber.

4.00 Top of spur projects SE.;thence along S.slope of spur.

23.00 Spur projects N.80°E.

Leave aspen and enter heavy pine timber bears N.80°E. and S.80°W. Descend.

25.00 Descend abruptly along steep N.slope toward Wolf Creek.

39.92 Set a porphyry stone 15x10x4 ins.10 ins.in the ground,

SUBDIVISION OF T.1 N.R.10 W.

Chains.	
	for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine 6 ins.diam.bears N.32°W.38 lks.dist.
	marked ¼ S 11 B T
	A pine 12 ins.diam.bears S.34°W.18 lks.dist.
	marked ¼ S 14 B T
71.00	Bottom of Left Fork of Wolf Creek, Stream 4 lks.wide 2 ins.deep;course N.80°E.
	Leave pine and enter aspen timber;bears N.80°E.and S. 80°W.;ascend.
75.00	Trail bears NE.and SW.
79.98	The cor.of secs.10,11,14,and 15.
	Land mountainous.
	Soil sandy and stony;3d and 4th rate.
	Timber pine and aspen.
	Mountainous land heavily timbered 79.98 chs.
	West Bdy.of Uintah Indian Reservation not having been established N.of this point,I abandon further survey N. at this date. October 3,1903.
	October 20,1903.
	From the cor.of secs.10,11,14,and 15 I run
	N.0°02'W.bet.secs.10 and 11
	Ascend through heavy aspen and pine timber.
40.00	Set a sandstone 18x10x10 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	An aspen 6 ins.diam.bears N.36°20'E.21 lks.dist.
	marked ¼ S 11 B T
	An aspen 8 ins.diam.bears N.25°40'W.27 lks.dist.
	marked ¼ S 10 B T
44.71	Intersect West Bdy.of Uintah Indian Reservation on top of dividing ridge bears NE.and SW.
	Set a limestone 30x12x6 ins.22 ins.in the ground for closing cor.of secs.10 and 11;marked CCUIR with 5 g grooves on S.;2 grooves on E.and UFR on N.face;from which
	A balsam 12 ins.diam.bears S.63°45'E.94 lks.dist.

SUBDIVISION OF T.1 N.R.10 W.

Chains.

marked T 1 N R 10 W S 11 B T

An aspen 13 ins.diam.bears S.61°15'W.83 lks.dist.

marked T 1 N R 10 W S 10 B T

From this closing corner th 164th mile corner on the boundary,as established by Deputies A.H.and F.M.Brown under their contract No.264 bears as follows:

N.70°15'E.4.29 chs.;thence

N.6°45'E.0.50 chs.to mile post No.164.

Land mountainous.

Soil sandy and rocky 3rd and 4th rate.

Timber pine and aspen.

Mountainous land heavily timbered 44.71 chs.

Knowing that the line bet.secs.2 and 11 will intersect the west boundary of the Uintah Indian Reservation I run from the cor.of secs.1,2,11 and 12

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

Descending through scattering pine and aspen timber;fallen timber and slide rock.

10.00 Leave slide rock bears NW and SE.

20.00 Bottom of middle fork of Wolf Creek,no water,course SE; Ascend.

30.00 Spur projects SE.;descend.

35.00 Small lake bears S.3.00 chs.dist.,6.00 chs.long,5.00 chs.wide.

Leave timber bears NW and SE.

40.00 Set a porphyry stone 20x8x8 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

A pine 5 ins.diam.bears N.55°E.20 lks.dist.

marked ¼ S 2 B.T

A pine 12 ins.diam.bears S.17°W.162 lks.dist.

marked ¼ S 11 B T

44.00 Begin steep ascent bears NW and SE.

Chains.	
53.00	Top of steep ascent bears N.and S.
	Enter heavy pine timber bears N.and S.
68.62	On top of dividing ridge bears N.and S.
	Intersect westn boundary of the Uintah Indian Reservation,
	Set a limestone 30x16x10 ins.22 ins.in the ground for closing corner for secs.2 and 11,marked CCUIR with 2 grooves on E.,5 grooves on S.and UFR on W.faces;from which
	A pine 16 ins.diam.bears N.45°15'E.23 lks.dist. marked T 1 N R 10 W S 2 B T
	A pine 14 ins.diam.bears S.50°E.50 lks.dist. marked T 1 N R 10 W S 11 B T
	From this closing corner the half-mile corner between the 164th and 165th mile post on the boundary as established by Deputies A.H.and F.H.Brown under their contract No.264 bears N.5°00'W.6.25 chs.dist.
	Land mountainous.
	Soil sandy and rocky;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land 68.62 chs.
	October 20,1903.

October 3,1903.

From the standard cor.of secs.33 and 34 on S.bdy.of the township,heretofore described,I run

N.0°02'W.bet.secs.33 and 34

	Descending through dead and scattering live aspen timber.
8.00	Begin ascent.
13.00	Top of small spur projects NW.
	Descend over rolling ground.
36.00	Leave timber bears E.and W.
40.00	Set a sandstone 20x12x8 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of corner.

SUBDIVISION OF T.1 N.R.10 W.

Chains.

Pits impracticable.

42.00 Top of spur projects N.40°W. [illegible].

Descend over rolling land.

48.00 Enter pine timber bears E.and W.

53.00 Enter fallen timber.

67.00 Ascend.

71.00 Top of small ridge bears E.and W.;descend.

80.00 Set a sandstone 16x12x10 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.edge;from which

A pine 8 ins.diam.bears N.19°45'E.184 lks.dist. marked T 1 N R 10 W S 27 B T

An aspen 6 ins.diam.bears S.34°30'E.38 lks.dist. marked T 1 N R 10 W S 34 B T

A pine 10 ins.diam.bears S.63°45'W.214 lks.dist. marked T 1 N R 10 W S 33 B T

A pine 10 ins.diam.bears N.64°40'W.140 lks.dist. marked T 1 N R 10 W S 28 B T

Land mountainous.

Soil sandy and stony;3rd and 4th rate.

Timber pine and aspen.

Mountainous land 80.00 chs.

October 3,1903.

October 4,1903.

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

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

79.84 Intersect N.and S.line 4 lks.N.of the cor.of secs.26,27 34 and 35;thence I run

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

Ascending abruptly through small aspen timber and dense undergrowth.

30.00 Top of spur 150 ft.high bears N.45°E.

Ddscend;leave dense aspen.

Chains	
38.00	Enter scattering pine timber,bears NE and SW.
39.92	Set a porphyry stone 20x18x6 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	A pine 6 ins.diam.bears N.49°E.42 lks.dist.
	marked $\frac{1}{4}$ S 27 B T
	A pine 4 ins.diam.bears S.116 lks.dist.
	marked $\frac{1}{4}$ S 34 B T
50.00	Head of draw course N.10°E.;ascend.
54.00	Enter heavy pine timber bears NE and SW.
75.00	Top of spur projects N.;descend.
	Leave pine timber.
79.50	Enter pine and aspen timber bears N.and S.
79.84	The cor.of secs.27,28,33,and 34.
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land 79.84 chs.

N.0°02'W.bet.secs.27 and 28

	Descending through pine and aspen timber.
3.00	Leave aspen and pine timber bears E.and W.
4.00	Enter scattering pine timber bears E.and W.
20.00	Leave pine timber bears E.and W.
23.50	West Fork of the DuChesne River 25 lks.wide,12 ins.deep, bottom rocky,course E.;ascend abruptly.
27.00	Indian trail Heber City to White Rock Indian Agency bears E.and W.
40.00	Set a sandstone 28x18x12 ins.21 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	An aspen 6 ins.diam.bears S.85°W.24 lks.dist.
	marked $\frac{1}{4}$ S 28 B T
	An aspen 6 ins.diam.bears S.30°E.17 lks.dist.
	marked $\frac{1}{4}$ S.27 B T
64.00	Enter scattering pine timber bears E.and W.

SUBDIVISION OF T.1 N.R.10 W.

Chains.

70.00 Top of spur 800 ft.high projects S. Descend.

80.00 Set a porphyry stone 30x6x6 ins.15 ins.in the ground for corner of secs.21,22,27,and 28,marked with 2 notches on the S.and 3 notches on the E.edge;from which

An aspen 6 ins.diam.bears N.31°E.18 lks.dist. marked T 1 N R 10 W S 22 B T

An aspen 5 ins.diam.bears S.26°E.34 lks.dist. marked T 1 N R 10 W S 27 B T

An aspen 6 ins.diam.bears S.60°W.53 lks.dist. marked T 1 N R 10 W S 28 B T

An aspen 5 ins.dia .bears N.62°W.13 lks.dist. marked T 1 N R 10 W S 21 B T.

Land mountainous.-

Soil sandy and stony;3rd and 4th rate.

Timber pine and aspen.

Mountainous land 80.00 chs.

S.89°58'E.on a random line bet.secs.22 and 27

40.00 Set temp.¼ sec.cor.

79.80 Intersect N.and S.line 30 lks.N.of the cor.of secs.22, 23,26,and 27;thence I run

N.89°45'W.on a true line bet.secs.22 and 27

Ascending over mountainous land.

6.00 Enter scattering aspen timber bears N.and S.

13.00 Abrupt descent;also enter pine timber bears N.and S:

16.50 Bottom of gulch course S.;small creek,clear water,sandy bottom 4 lks.wide,3 ins.deep,course S.

Ascend.

Leave pine timber,bears N.and S.

18.00 Enter scattering aspen timber bears N.and S.

39.90 Set a sandstone 18x12x10 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

An aspen 12 ins.diam.bears N.45°W.69 lks.dist. marked ¼ S 22B T

Chains.	
	An aspen 10 ins.diam.bears S.38°E.41 lks.dist. marked ¼ S 27 B T
60.00	Ascend abruptly.
79.80	The c r.of secs.21,22,27,and 28.
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land 79.80 chs.
	October 4,1903.

Oct.5,1903.

N.0°02'W.bet.secs.21 and 22

Ascending through aspen timber.

5.00	Leave aspen timber bears NE and SW.
11.00	Top of spur projects E.;descend.
23.00	Head of draw course E.;ascend.
38.00	Small spur projects E.;descend;
	Enter scattering pine timber bears NW and SE.
40.00	Set a porphyry stone 18x12x6 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 4 ins.diam.bears S.70°E.16 lks.dist. marked ¼ S 22 B T
	A pine 4 ins.diam.bears S.35°W.32 lks.dist. marked ¼ S 21 B T
45.00	Enter burnt pine timber bears NW and SE.
75.00	Bottom of small canon;spring branch 2 lks.wide 1 in.deep, course SE;
	Leave burned pine and enter heavy live pine and aspen timber bears NW and SE.
	Ascend.
80.00	Set a porphyry stone 17x9x6 ins.12 ins.in the ground for corner of secs.15,16,21.and 22,marked with 3 notches on S.and E.edges;from which
	An aspen 7 ins.diam.bears N.70°30'E.41 lks.dist. marked T 1 N R 10 W S 15 B T

SUBDIVISION OF T.1 N.R.10 W.

Chain .

An aspen 5 ins.diam.bears S.65°30'E.38 lks.dist.
marked T 1 N R 10 W S 22 B T
An aspen 10 ins.diam.bears S.63°W.62 lks.dist.
marked T 1 N R 10 W S 21 B T
A pine 8 ins.diam.bears N'25°W.28 lks.dist.
marked T 1 N R 10 W S 16 B T

Land mountainous.
Soil sandy and stony;3rd and 4th rate.
Timber pine and aspen.
Mountainous land 80.00 chs.

S.89°45'E.on a random line bet.secs.15 and 22

40.00 Set temp.¼ sec.cor.

79.55 Intersect N.and S.line 12 lks.N.of the cor.of secs.14,1 22 and 23;thence I run

N.89°40'W.on a true line bet.secs.15 and 22

Descending over mountainous land.

8.00 Bottom of descent;enter aspen timber bears N.and S.

Ascend.

32.00 Top of small spur projects S.;descend.

39.77½ Set a quartzite stone 24x10x8 ins.18 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

An aspen 6 ins.diam.bears N.10°W.5 lks.dist.
marked ¼ S 15 B T
An aspen 6 ins.diam.bears S.18 lks.dist.
marked ¼ S 22 B T

49.00 Begin ascent bears NW and SE.

62.00 Spur projects SE.;descend.

72.00 Enter heavy pine and fallen timb r.

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

Land mountainous.
Soil sandy and stone;3rd and 4th rate.
Timber pine and aspen.
Mountainous land 79.55 chs.

SUBDIVISION OF T.1 N.R.10 W.

Chains.	
	N.0°02'W.bet.secs.15 and 16
	Ascending through scattering pine and aspen timber.
8.00	Leave timber bears E.and W.
24.00	Summit of Wolf Creek Ridge 400 ft.high bears E.and W.
	Descend.
25.00	Enter dense pine timber bears E.and W.
40.00	Set a sandstone 16x8x8 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A white pine 14 ins.diam.bears N.62°E.26 lks.dist. marked ¼ S 15 B T
	A white pine 8 ins.diam.bears S.63°W.20 lks.dist. marked ¼ S 16 B T
52.00	Leave pine timber bears N.80°E.and S.80°W.
55.00	Left Fork of Wolf Creek;[illegible] 3 lks.wide,4 ins. deep,sandy bottom,course N.88°E.,700 ft.below ridge.
56.00	Wolf Creek Trail bears E.and W.;ascend.
66.00	Top of ascent;thence rolling ground.
78.00	Enter pine timber bears E.and W.
80.00	Set a sandstone 18x12x10 ins.12 ins.in the ground for corner of secs.9,10,15 and 16,marked with 4 notches on S.and 3 notches on E.edge;from which
	A balsam 7 ins.diam.bears N.8°30'E.102 lks.dist. marked T 1 N R 10 W S 10 B T
	A balsam 6 ins.diam.bears S.58°30'E.18 lks.dist. marked T 1 N R 10 W S 15 B T
	A balsam 8 ins.diam.bears S.27°15'W.40 lks.dist. marked T 1 N R 10 W S 16 B T
	A balsam 7 ins.diam.bears N.69°45'W.39 lks.dist. marked T 1 N R 10 W S 9 B T
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.
	Timber pine.
	Mountainous land 80.00 chs.
	October 5,1903.

SUBDIVISION OF T.1 N.R.10 W.

Chains.	
	Oct.6,1903 .
	S.89°40'E.on a random line bet.secs.10 and 15
40.00	Set temp.¼ sec.cor.
79.50	Intersect N.and S.line 3 lks.S.of the cor.of secs.10, 11,14,and 15:thence I run
	N.89°41'W.on a true line bet.secs.10 and 15
	Ascending through aspen timber.
4.00	Top of spur projects SE.;thence over rolling ground.
5.00	Leave aspen timber bears N.and S.
27.00	Small creek 4 lks.wide,2 ins.deep,bottom sandy,course S.
31.00	Enter pine timber bears N.and S.
34.00	Leave pine timber bears N.and S.
38.50	Small creek 3 lks.wide,2 ins.deep,sandy bottom,course S.
39.75	Set a quartzite stone 18x6x5 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone 3 ft.base 1½ ft.high N.of cor.Pits impracticable.
44.00	Enter pine timber bears NE.and SW.
52.00	Leave pine timber bears NE.and SW.
70.00	Enter pine timber bears N.and S.
77.50	The cor.of secs.9,10,15,and 16.
	Land mountainous.
	Soil sandy and stony;3d and 4th rate.
	Timber pine and aspen.
	Mountainous land 79.50 chs.
	West Bdy.of Uintah Indian Reservation not having been established N.of this point,I abandon further survey north at this date. October 6,1903.

	Oct.20,1903: From the cor.of secs.9,10,15,and 16 I run
	N.0°02'W.bet.secs.9 and 10
	Over mountainous land.
9.00	Begin very steep ascent,bears E.and W.
14.00	Top of ridge bears E.and W.
14.72	Intersect West Bdy.of Uintah Indian Reservation,

SUBDIVISION OF T.1 N.R.10 W.

Chains. Set a quartzite stone 30x10x6 ins.23 ins.in the ground for closing corner for secs.9 and 10,marked CCUIR with 4 grooves on S.;3 grooves on E.and UFR on N.face;and raise a mound of stone 2 ft.base 1½ ft.high S.of cor. From this closing corner the 163d mile corner on the boundary as established by Deputies A.H.and F.M.Brown under their contract No.264,bears N.50°15'E.15.63 chs.dist.

Land mountainous.

Soil sandy and rocky;3d and 4th rate.

No timber.

Mountainous land 14.72 chs.

October 20,1903.

October 6,1903:At the standard cor.of secs.32 and 33 on S.bdy.of Tp.,heretofore described at 6 h.32 m.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 by a tack set in a wooden peg driven in the ground 5 chs.N.of my station,which is in lat.40° 26.3'N.;long.111°03.3'W.

Oct.7:At 7 h.30 m.a.m.l.m.t.I lay off the azimuth of Polaris 1°35.5'to the west;and mark the meridian thus determined by cutting a cross in a rock in place west of the wooden peg previously set.

Fromthis meridian I turn 0°3'toward the W.and run

N.0°03'W.bet.secs.32 and 33

Descending over mountainous land through heavy balsam timber.

5.00 Leave balsam;enter fallen aspen timber bears NE.and SW.

20.00 Enter scattering pine timberbears NE.and SW.

32.00 Leave pine and continue inaspen timber bears E.and W.

40.00 Set a sandstone 18x12x8 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which

Anaspen 4 ins.diam.bears N.20°E.8 lks.dist. marked ¼ S 35 B T

SUBDIVISION OF T.1 N.R.10 W.

Chains	
	An aspen 4 ins.diam.bears N.45°W.5 lks.dist.
	marked $\frac{1}{4}$ S 32 B T
55.00	Bottom of gulch 400 ft.below the corner;spring branch
	2 lks.wide,2 ins.deep,course N.1°E.;ascend.
65.00	Top of spur projects N.E.;descend.
80.00	Set a sandstone 18x6x5 ins.12 ins.in the ground for cor.
	of secs.28,29,32,and 33,marked with 1 notch on S.and 4
	notches on E.edge;from which
	A pine 3 ins.diam.bears N.48°30'E.31 lks.dist.
	marked T 1 N R 10 W S 28 B T
	An aspen 3 ins.diam.bears S.31°50'E.76 lks.dist.
	marked T 1 N R 10 W S 33 B T
	A pine 4 ins.diam.bears S.27°W.52 lks.dist.
	marked T 1 N R 10 W S 32 B T
	A pine 12 ins.diam.bears N.44°W.83 lks.dist.
	marked T 1 N R 10 W S 29 B T
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land,covered with heavy timber,fallen tim-
	ber or dense undergrowth 80.00 chs.

East on a random line bet.secs.28 and 33

40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.06	Intersect N.and S.line 2$\frac{1}{2}$ lks.N.of the cor.of secs.27,28
	33 and 34;thence I run
	N.89°59'W.on a true line bet.secs.28 and 33.
	Descend over mountainous land.
11.00	Canon Creek,3 lks.wide,4 ins.deep,course N.20°W.;
	Ascend.
14.00	Enter scattering aspen and fallen timber bears N.and S.
	over rolling ground.
24.50	Descend abruptly;leave aspen timber.
31.00	West Fork of DuChesne River 30 lks.wide 14 ins.deep,
	rocky bottom,course N.80°E.

SUBDIVISION OF T.1 N.R.10 W.

Chains	
38.00	Ascend from creek.
40.03	Set a sandstone 30x18x10 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.
42.00	Dry wash drains SE.
45.00	West Fork of DuChesne River 30 lks.wide;course S.80°E.Asc.
46.00	Cliff 50 ft.high bears S.80°E.
49.00	Top of cliff;descend.
56.00	Small gulch 40 ft.deep,creek 30 lks.wide 3 ins.deep, course N.;ascend.
80.06	The corner of secs.28,29,32,and 33.
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.
	Timber aspen.
	Mountainous land 80.06 chs.

N.0°03'W.bet.secs.28 and 29

	Ascend over mountainous land.
3.00	Top of cliff bears E.and W.;descend.
6.50	West Fork of DuChesne River 25 lks.wide,14 ins.deep, course S.88°E.;ascend.
8.00	Indian trail Heber City to White Rock Indian Agency bears E.and W.
11.00	Enter dense sagebrush.
20.00	Leave sagebrush and enter dense scrub aspen timber bears NW and SE.
40.00	Set a sandstone 16x12x10 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.
80.00	Set a sandstone 21x12x5 ins.16 ins.in the ground for corner of secs.20,21,28,and 29,marked with 2 notches on S.and 4 notches on E.edge;from which
	An aspen 6 ins.diam.bears N.59°E.21 lks.dist.

SUBDIVISION OF T.1 N.R.10 W.

Chains

marked T 1 N R 10 W S 21 B T

An aspen 5 ins.diam.bears S.41°E.60 lks.dist.

marked T 1 N R 10 W S 28 B T

An aspen 4 ins.diam.bears S.11°W.99 lks.dist.

marked T 1 N R 10 W S 29 B T

An aspen 7 ins.diam.bears N.37°W.98 lks.dist.

marked T 1 N R 10 W S 20 B T

Land mountainous.

Soil sandy and stony 4th rate.

Timber aspen.

Mountainous land 80.00 chs.

October 7,1903.

October 8,1903.

S.89°59'E.on a random line bet.secs.21 and 28

40.00 Set temp.¼ sec.cor.

80.00 Intersect N.and S.line 3 lks.S.of the cor.of secs.21,22, 27 and 28;thence I run

West on a true line bet.secs.21 and 28

Over mountainous land;ascending through aspen timber.

6.00 Top of high spur projects S.

Descend.

28.00 Draw 200 ft.deep,course S.;ascend.

33.00 Top of narrow spur projects S.;descend.

40.00 Set a red sandstone 20x13x6 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

An aspen 5 ins.diam.bears N.21°W.26 lks.dist.

marked ¼ S 21 B T

An aspen 5 ins.diam.bears S.6°W.29 lks.dist.

marked ¼ S 28 B T

47.00 Bottom of canon,dry wash,course S.;ascend.

75.00 Top of spur 160 ft.high projects S.10°E.

Descend.

80.00 The cor.of secs.20,21,28 and 29.

Land mountainous.

SUBDIVISION OF T.1 N.R.10 W .

Chains.	Soil sandy and stony;3rd and 4th rate.
	Timber aspen.
	Mountainous land 80.00 chs.

N.0°03'W.bet.secs.20 and 21

	Ascending through heavy aspen timber over mountainous land.
20.00	Top of spur projects NW.
	Descend;leave timber bears NW and SE.
23.00	Bottom of descent.
38.00	Ascend.
39.25	Top of spur projects E.
39.50	Enter heavy pine timber bears E.and W.
40.00	Set a porphyry stone 14x8x6 ins.9 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 14 ins.diam.bears E.2 lks.dist.
	marked ¼ S 21 B T
	A pine 5 ins.diam.bears N.59°W.18 lks.dist.
	marked ¼ S 20 B T
50.00	Leave live and enter burned pine timber bears E.and W.
59.00	Leave burned pine timber bears NE and SW.
68.00	Head of canon course SE.;ascend.
80.00	Set a sandstone 30x8x8 ins.15 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;and raise a mound of stone 2 ft.base 1½ ft.high W.of cor.Pits impracticable.
	Land mountainous.
	Soil sandy and stony;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.

East on a random line bet.secs.16 and 21

40.00	Set temp.¼ sec.cor.

SUBDIVISION OF T.1 N.R.10 W.

Chains.

79.80 Intersect N.and S.line 2 lks.S.of the cor.of secs.15, 16,21,and 22;thence I run

S.89°59'W.on a true line bet.secs.16 and 21

Descending through heavy aspen and pine timber.

7.50 Bottom of cañon;spring branch 2 lks.wide,1,in.deep;E. course.SE. Ascend.

25.00 Top of spur 80 ft.high,projects S.20°E. Descend.

39.90 Set a porphyry stone 18x15x5 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

A pine 16 ins.diam.bears N.35°W.32 lks.dist.

marked ¼ S 16 B T

A pine 9 ins.diam.bears S.55°E.50 lks.dist.

marked ¼ S 21 B T

42.00 Head of draw,course S.;ascend.

48.00 Top of spur projects S.;descend.

60.00 Draw course S.;ascend. Leave timber.

79.80 The cor.of secs.16,17,20,and 21.

Land mountainous.

Soil sandy and stony;3d and 4th rate.

Timber pine and aspen.

Mountainous land 79.80 chs.

West Bdy.of Uintah Indian Reservation not having been established,I abandon further survey north at this date

October 8,1903.

October 20,1903:

From the cor.of secs.16,17,20,and 21 I run

N.0°03'W.bet.secs.16 and 17

Ascending toward the bdy.of the Uintah Indian Reservation.

5.15 Top of dividing ridge,bears NE.and SW.

Intersect W.bdy.of Uintah Indian Reservation,

Set a sandstone 24x18x8 ins.18 ins.in the ground for closing cor.for secs.16 and 17,marked 'CCUIR with 3 grooves on S.,4 grooves on E.and UFR on N.face;and raise

Chains.	
	a mound of stone 2 ft.base 1½ ft.high S.of cor.
	Pits impracticable.
	From this closing cor.the 161st.mile cor.on the bdy.
	as established by Deputies A.H.and F.M.Brown,under
	their contract No.264,bears as follows:
	N.64°45'E.0.03 chs.;thence
	N.78°15'E.15.30 chs.to mile post No.161.
	Land mountainous.
	Soil sandy and stony;3d and 4th rate.
	No timber.
	Mountainous land 5.15 chs.
	Knowing that the line bet.secs.9 and 16 will intersect
	the W.bdy.of the Uintah Indian Reservation I run from
	the cor.of secs.9,10,15,and 16
	S.89°59'W.on a true line bet.secs.9 and 16
	over rolling ground.
37.00	Enter heavy pine. [illegible]
40.00	Set a sandstone 16x6x5 ins.11 ins.in the ground for ¼
	sec.cor.;marked ¼ on N.face;from which
	An aspen 16 ins.diam.bears N.33°E.43 lks.dist.
	marked ¼ S 9 B T
	A pine 12 ins.diam.bears S.25°W.38 lks.dist.
	marked ¼ S 16 B T
43.00	Leave timber bears N.and S.
54.00	Enter dead timber bears NE.and SW.
57.04	Top of dividing ridge bears NE.and SW.[illegible]
	Intersect W.bdy.of Uintah Indian Reservarion,
	Set a limestone 20x10x8 ins.15 ins.intthe ground for
	closing cor.for secs.9 and 16;marked CCUIR with 4 grooves
	on E.,4 grooves on S.and UFR on W.face;from which
	A balsam 14 ins.diam.bears S.40°E.101 lks.dist.
	marked T 1 N R 10 W S 16 B T
	A balsam 6 ins.diam.bears N.66°E.148 lks.dist.

SUBDIVISION OF T.1 N.R.10 W.

Chains	
	marked T 1 N R 10 W S 2 B T
	From this closing corner the 162d mile post on the boundary as established by Deputies A.N.and F.H.Brown under their contract No.264 bears S.40°45'W.3.07 chs. dist.
	Land mountainous.and rolling.
	Soil sandy and rocky;3rd and 4th rate.
	Timber pine and aspen
	Mountainous land,heavily timbered 57.04 chs.
	October 201903.
	October 9,1903.
	From the standard cor.of secs.31 and 32 on the S.bdy.of the township,heretofore described,I run
	N.0°04'W.bet.secs.31 and 32
	Descending over north slope;through scattering pine and fallen timber.
10.00	Enter aspen timber bears E.and W.
16.00	Leave aspen and enter heavy pine timber bears NE and SW.
23.00	Leave timber.bears.E.and W.
32.00	Enter aspen and fallen timber bears NE.and SW.
	Begin steep descent.
40.00	Set a sandstone 16x12x10 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	A pine 8 ins.diam.bears S.40°E.40 lks.dist. marked ¼ S 32 B T
	An aspen 3 ins.diam.bears S.5°W.30 lks.dist. marked ¼ S 31 B T
61.00	Draw course NE;ascend abruptly.
63.00	Top of ascent bears NE and SW.
65.00	Begin descent.
71.00	Leave timber bears E.and W.
80.00	Set a sandstone 24x12x8 ins.18 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;raise a mound of stone 3 ft. base 1½ ft.high W.of cor.
	P

Chains	
	Pits impracticable.
	Land mountainous.
	Soil sandy and rocky;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.
	East on a random line bet.secs.29 and 32
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.08	Intersect N.and S.line 3 lks.N.of the cor.of secs.28,29 32 and 33;thence I run
	N.89°59'W.on a true line bet.secs.29 and 32
	Ascending over mountainous land;through aspen timber.
8.00	Top of spur projects N.;descend.
20.00	Ravine 60 ft.deep and small creek 3 lks.wide 6 ins.deep, course N.;ascend.
25.00	Top of spur projects N.3°E.;descend.
38.00	Ravine with creek 4 lks.wide,4 ins.deep,course N.;ascend.
40.04	Set a sandstone 14x10x8 ins.9 ins.in the ground for.$\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;from which
	An aspen 3 ins.diam.bears N.20°W.36 lks.dist. marked $\frac{1}{4}$ S 29 B T
	An aspen 4 ins.diam.bears S.35°W.44 lks.dist. marked $\frac{1}{4}$ S 32 B T
40.25	Enter heavy pine and aspen and fallen timber bears NW and SE.
50.00	Spur projects NE;descend abruptly.
56.00	Leave timber bears NE and SW.
70.00	Draw course N.;ascend abruptly;through dense underbrush.
80.08	The cor.of secs.29,30,31,and 32.
	Land mountainous.
	Soil clay and rocky;3rd and 4th rate.
	Timber pine and aspen.
	Mountainous land 80.08 chs.

SUBDIVISION OF T.1 N.R.10 W.

Chains.

West on a random line bet.secs.30 and 31

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

79.96 Intersect W.bdy.of Tp.7 lks.N.of the cor.of secs.25,30, 31,and 36,heretofore described.

Thence I run

N.89°57'E.on a true line bet.secs.30 and 31

Descending through pine and aspen timber;over mountainous land,along north slope.

12.00 Leave timber bears N.and S.

Ravine 60 ft.deep;small creek 4 lks.wide,6 ins.deep, rocky bottom,course N.;ascend abruptly.

15.00 Enter pine,aspen and fallen timber bears N.and S.

23.00 Top of abrupt ascent bears N.and S.

37.00 Begin descent and leave timber bears N.and S.

39.96 Set a sandstone 24x10x8 ins.18 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

46.00 Ravine 80 ft.deep,course N.;ascend.abruptly over loose rock.

58.00 Top of spur 100 ft.high projects N.;descend over cliffs.

67.00 Bottom of cliffs bear N.and S.

79.96 The cor.of secs.29,30,31,and 32.

Land mountainous.

Soil rocky;4th rate.

Timber pine and aspen.

Mountainous land 79.96 chs.

October 9,1903.

October 10,1903.

N.0°04'W.bet.secs.29 and 30

Descending abruptly over slide rock.

14.00 Bottom of very steep descent;thence descend gradually bearing E.and W.

Enter aspen timber bears E.and W.

Chains	
22.00	West Fork of Duchesne River 10 lks.wide,14 ins.deep, rocky bottom,clear water,course E.
	Leave timber bears E.and W.
25.00	Ascend.Trail Heber City to White Rock Indian Agency bears E.and W.
40.00	Point for ¼ sec.cor.falls on rock in place 4x4x2 ft. above ground.
	Cut a cross (X) at the corner point for ¼ sec.cor., marked ¼ on W.of cross,and raise a mound of stone 3 ft. base 1½ ft.high W.of cor.Pits impracticable.
60.00	Begin steep ascent bears NW and SE.
65.00	Enter aspen timber bears SE and NW.
80.00	Set a porphyry stone 16x8x6 ins.11 ins.in the ground for cor.of secs.19,20,29,and 30,marked with 3 notches on S.and 3 notches on E.edge;From which
	An aspen 8 ins.diam.bears N.54°E.33 lks.dist. marked T 1 N R 10 W S 20 B T
	An aspen 6 ins.diam.bears S.38°E.13 lks.dist. marked T 1 N R 10 W S 29 B T
	An aspen 12 ins.diam.bears S.63°W.39 lks.dist. marked T 1 N R 10 W S 30 B T
	An aspen 4 ins.diam.bears N.40°W.15 lks.dist. marked T 1 N R 10 W S 19 B T
	Land mountainous.
	Soil sandy and stony:3rd and 4th rate.
	Timber aspen.
	Mountainous land 80.00 chs.

	S.89°30'E.on a random line bet.secs.20 and 29
41.67	Set temp.¼ sec.cor.
79.33	Intersect N.and S.line 3 lks.E.of the cor.of secs.20,21 28 and 29;thence I run
	West on a true line bet.secs.20 and 29
	Descending through heavy aspen timber.
22.00	Small creek 40 ft.deep;creek 3 lks.wide 3 ins.deep,course

SUBDIVISION OF T.1 N.R.10 W.

Chains.

SE;ascend abruptly.

39.00 Top of spur projects SE;descend.

39.96 Set a porphyry stone 19x6x6 ins.14 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

An aspen 7 ins.diam.bears N.25°E.61 lks.dist. marked ¼ S 20 B T

An aspen 4 ins.diam.bears S.85°E.29 lks.dist. marked ¼ S 29 B T

Descend abruptly.

51.00 Bottom of abrupt descent bears NW and SE.

Thence over rolling ground;descend

68.00 Draw,course SE;ascend.

75.00 Top of spur projects SE;descend.

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

Land mountainous.

Soil sandy and stony;3rd and 4th rate.

Timber aspen.

Mountainous land heavily timbered 79.92 chs.

S.89°57'W.on a random line bet.secs.19 and 30

40.00 Set temp.¼ sec.cor.

80.00 Intersect W.bdy.of Tp.7 lks.S.of the cor.of secs.19,24, 25,and 30;thence I run

East on a true line bet.Secs.19 and 30

Descending through heavy aspen timber and dense under-growth.

12.00 Bottom of draw;creek 3 lks.wide 2 ins.deep,course SE. Ascend.

38.00 Spur projects SE;descend.

40.00 Set a sandstone 20x15x6 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;from which

An aspen 6 ins.diam.bears N.20°E.36 lks.dist. marked ¼ S 19 B T [illegible] B T

SUBDIVISION OF T.1 N.R.10 W.

Chains	
	An aspen 4 ins.diam.bears S.10°W.33 lks.dist. marked ¼ S 30 B T [illegible]
45.00	Draw,course SE;ascend.
58.00	Spur projects SE;descend.
61.00	Draw;creek 6 lks.wide 3 ins.deep,course SE;ascend.
80.00	The cor.of secs.19,20,29,and 30.
	Land mountainous.
	Soil sandy and stony 3rd and 4th rate.
	Timber aspen.
	Mountainous land,heavily timbered 80.00 chs.
	Oct.10,1903.
	October 11,1903.
	N.0°04'W.bet.secs.19 and 20
	Ascending through heavy aspen timber and dense undergrowth.
39.00	Enter scattering pine among the aspen timber.
40.00	Set a sandstone 17x11x9 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;from which
	An aspen 6 ins.diam.bears N.61°E.18 lks.dist. marked ¼ S 20 B T
	A pine 8 ins.diam.bears S.72°W.20 lks.dist. marked ¼ S 19 B T
48.00	Leave timber bears E.and W.
50.00	Head of draw,course SW.;ascend.
64.55	Top of dividing ridge,bears E.and W.
	Intersect the west boundary of the Uintah Indian Reservation,
	Set a sandstone 20x8x6 ins.15 ins.in the ground for closing corner for secs.19 and 20,marked CCUIR with 3 grooves on the S.,5 grooves on E.and UFR on N.faces;and raise a mound of stone 2 ft.base 1½ ft.high S.of cor.
	Pits impracticable.
	From this closing corner the 160th mile corner on the

Chains. boundary as established by Deputies A.H.and F.M.Brown under their contract No.264 bears N.83°15'E.19.90 chs.

Land mountainous.

Soil sandy and stony;3rd and 4th rate.

Timber pine and aspen.

Mountainous land 64.55 chs.

Knowing that the line bet.secs.17 and 20 will intersect the west boundary of the Uintah Indian Reservation,I run from the cor.of secs.16,17,20,and 21

West on a true line bet.secs.17 and 20

Ascending over mountainous land,through scattering pine timber,

10.99 On top of dividing ridge bears E.and W.

Intersect the west boundary of the Uintah Indian Reservation,

Set a sandstone 20x10x8 ins.15 ins.in the ground for closing corner for secs.17 and 20,marked CCUIR with 4 grooves on the E.,3 grooves on S.and UFR on W.faces; from which

A pine 12 ins.diam.bears S.40°W.30 lks.dist.

marked T 1 N R 10 W S 20 B T

No other bearing trees within limits;raise a mound of stone 3 ft.base 1½ ft.high E.of cor.

Pits impracticable.

From this closing corner the 161st mile corner on the boundary as established by Deputies A.H.and F.M.Brown under their contract No.264 bears as follows:

N.64°45'E.12.05 chs.;thence

N.78°15'E.15.30 chs.to mile post No.161.

Land mountainous.

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

SUBDIVISION OF T.1 N.R.10 W.

Chains.

Timber pine.

Mountainous land 10,90 chs.

October 11,1903.

GENERAL DESCRIPTION.

This township is all mountainous land. The canon of the West Fork of the DuChesne River runs entirely through it from west to east. This stream is a clear mountain stream with rocky bottom and ratner rapid current. It is fed by numerous small branches both from the north and south. There are some mountain trout in the stream. The ground rises both ways from this river and is cut by many draws and ravines.

There is considerable heavy pine and aspen timber and most of the township is covered with timber of different sizes.

The soil is sandy and would naturally be covered with a thick growth of grasses and weeds,and is so covered where no sheep have grazed.

Wolf Creek heads in the north-central part of this township,i.e.in sec.16 and runs in a general northeast course;it is separated from the West Fork of the DuChesne River by a high well defined ridge bearing in a general easterly and westerly direction. There is water in only part of the course.

There are no settlers in the township. I found no indications of mineral in the township.

John W. McKinnon

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

showing the respective capacities in which they acted:

For final affidavits see book "L" T.2 N.R.10 W. _____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

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

For final affidavits see book "L" T.2 N.R.10 W. _____, *Chainman.*

_____, *Chainman.*

_____, *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 affidavit see book "L" T.2 N.R.10 W.

of the meridian, in the of , which are represented on 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 of said survey; and that the foregoing are the original field notes of such survey; and that any fraud so detected, I will make 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, January , 190 4.

The foregoing field notes of the survey of the Subdivisional lines of Township 1 North, Range No.10 West, of the Utah Principal Meridian, Utah,

executed by John T. Merlin under his contract No. 277, dated July 22, 1903, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

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