Volume

#

R0284

BOOK A-284

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Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; the
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
.....

..... *Chainma*

..... *Chainma*

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

SEAL

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

..... *Moundm*

..... *Moundm*

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

SEAL

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

..... *Axm*

..... *Axm*

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

SEAL

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

..... *Flagm*

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

SEAL

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6—161

PRELIMINARY OATHS OF ASSISTANTS.

We, ... and .....

[illegible] that we will well and faithfully execute the duties of chainmen; that we will level t[illegible] [illegible] uneven ground, and plumb the tally pins, either by sticking or dropping the same; th[illegible] [illegible] true distances to all notable objects, and the true lengths of all lines that we assist [illegible] [illegible] best of our skill and ability, and in accordance with instructions given us, in the survey [illegible]

....., *Chainma*

....., *Chainma*

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

SEAL

We, ... and .....

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

....., *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 [illegible]

....., *Axman.*

....., *Axman.*

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

SEAL

I ....., do solemnly swear that I will well and truly [illegible] according to instructions given me, to the best of my skill and ability, in the [illegible]

....., *Flagman.*

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

SEAL

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Township 26 S., *Range* 23 E.

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6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman.*

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

SEAL

.....

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

.....

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

.....

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

....., *Flagman.*

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

SEAL

.....

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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.

J.

BOOK A-284

FIELD NOTES

OF THE re SURVEY OF THE

Colorado Guide
Meridian
through
Township No. 29 South
between
Ranges Nos. 23 and 24 East

Of the Salt Lake base and Meridian.
In the State of Utah

AS SURVEYED BY

Hubert D. Page. United States Deputy Surveyor,

Under his Contract No. 247, dated November 11th, 1901

Survey commenced February 2nd 1902

Survey completed February 6th 1902

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high 5-70-00 ✓
low 10-00 ✓

BOOK A-284

NAMES AND DUTIES OF ASSISTANTS.

Jay Morrison	Chainman
Peter Meyer	"
Edward Cannell	"
Hale Cherry	"
Joseph Rasmussen	Groundman
Geo Lyman	Axman
John Baker	Flagman

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BOOK A-284

INDEX DIAGRAM.

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Meanders Page.....

6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, Jay Morrison, Peter Meyer and Edward Cannell & Hale Cl[illegible]

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Colorado Guide Meridian in Ng S between Rs 23 & 24 E of the Salt Lake Meridian, in the state of Utah.

Jay Morrison, Peter Meyer, Chainmen.

Edward Cannell, Hale Cl[illegible], Chainmen.

Subscribed and sworn to before me this 26th day of December 1901

Hubert D. Page
U.S. Deputy Surveyor

We, I Joseph Rasmussen

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 Colorado Guide Meridian in Ng S, Rs 23 & 24 E, of the Salt Lake Base Meridian, in the State of Utah.

Joseph Rasmussen, Moundman.

, Moundman.

Subscribed and sworn to before me this 26th day of December 1901

Hubert D. Page
U.S. Deputy Surveyor

We, I Vern Lyman 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 the Colorado Guide Meridian in Ng S, Rs 23 & 24 E, of the Salt Lake Base Meridian, in the State of Utah.

Vern Lyman, Axman.

, Axman.

Subscribed and sworn to before me this 26th day of December 1901

Hubert D. Page
U.S. Deputy Surveyor

I, John Baker, 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 Colorado Guide Meridian in Ng S, Rs 23 & 24 E, of the Salt Lake Base Meridian, State of Utah.

John Baker, Flagman.

Subscribed and sworn to before me this 26th day of December 1901

Hubert D. Page
U.S. Deputy Surveyor

Resurvey of the
Colorado Guide Meridian, through Tps. 29 - S. Rs. 25 & 24.

Survey commenced, Feb. 2, 1901 and executed with A.W. and L.C. Gurley light mountain transit No. - with solar attachment.
The horizontal limb being provided with two opposite verniers 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, September 28, 1901.
I examine the adjustments of the instrument and correct the level and collimation errors: then to test the solar apparatus by comparing its indications resulting from solar observations made during A.M., and P.M. hours with a true meridian determined by observations on Polaris:
I proceed as follows:
At my camp, on Hatch Wash. in approximate latitude 38°15' N. longtitude 109°27' W.
At 4 P.M., l.m.t., I set off 38°15' N. on the latitude arc: 16°48' S on the declination arc: and determine a true meridian with the solar, and mark the line thus determined by a cross on a stone, firmly set in the ground, 5 chs. north of the instrument.
At 10h 29m P.M., l.m.t. I observe Polaris at western elongation in accordance with instructions in the Manual and mark the line, thus

determined by a tack driven in a wooden plug, set in the ground 5 chs. north of my station.
February 2, 1902.

Feb. 3: At 7 A.M. I lay off the azimuth of Polaris, 1°33' to the east and mark the True Meridian thus determined by cutting a small groove in the stone, set last Evening, on which the true meridian falls 0.2 ins. east of the mark determined by the Solar.
At 8 A.M. L.M. I set off 38°15' N. on the lat. arc, 16°37' S. on the decl. arc, and mark the line meridian determined with the Solar, by a cross on the stone, already set, 5 chs. north of my station.
This mark falls 0.2 ins. east of the line meridian established by the Polaris observation.
The solar apparatus by p.m. and A.M. observations defines positions for line meridians about 0'11" west and east of the meridian established by the Polaris observation, therefore I conclude that the adjustments of the instrument are satisfactory.
The magnetic bearing of the true meridian at 8 A.M. is N. 15°10' W. the angle thus determined reduced by the table, page 100, gives the mean magnetic declination 15°08' E.
I now search for the established corner of Tps. 29 and 30 S. Rs. 23 and 24 E. on the Colorado Guide Meridian, but can find no trace thereof, no trace can be found of the Cor. of secs. 2, 2, 34 and 35 on the S.

bdy. of T. 29 S., R. 23 E. and no
Cors. along the entire S.
bdy. can be found.
Therefore I conclude to search
for the Colorado Guide Meridian
along the N. bdy. of this Tp.
I begin at the established
Cor. of Secs. 1, 2, 35 and 36, Tps. 28 and 29 S.
Rs. 23 E. which is a sandstone
8 x 10 x 8 ins. above the ground,
marked and witnessed as
described by the Surveyor
General,
I run East, on a random line,
along the N. bdy. of Sec. 1.
at 40.00 chs. a sandstone 10 x 10 x 8
ins. above ground, marked ¼ S.
on N. with 2 bearing trees,
properly marked, I run S. 15° W.
30 chs. dist. and at 79.75 chs.
find a large mound of stone.
The surrounding country does
not correspond with the
description as given by the
Surveyor General, and no trace
of any Cors. can be found N.
or S. of this point, I conclude
the mound of stone found
is not on the Colorado
Guide Meridian.
Not being able to find the
Colorado Guide Meridian, by
running lines in from the
West, and knowing the
Colorado Guide Meridian was
established by a line from
the east, running between
Tps. 28 and 29 S. R. 24 E. S. to trace
east of the S. bdy. of T. 28 S. R. 24 E.
February 3, 1902.

Resurvey of the
Colorado Guide Meridian through Tps 29 S. Continued

Feb. 5. From the relacement
of the S. bdy. of T. 28 S. R. 24 E.
I find the established Cor. of
Tps. 28 & 29 S. Rs. 23 & 24 E. on
the Colorado Guide Meridian,
which is a sandstone 12 x 8 x 3 ins.
loosely set, in a mound of
stone, marked as described
by the surveyor general.
From this point the Cor. of
secs. 1, 2, 35 & 36 on the N. bdy.
of T. 29 S., R. 23 E. bears S. 56° 02' W.
137.80 chs. dist. At this point
I reëstablish the Cor. of Tps. 28 & 29
S., Rs. 23 & 24 E., as follows:
Set a * sandstone 20 x 12 x 10 ins.
15 ins. in the ground, for
reëstablished Cor. of Tps. 28 & 29 S.
Rs. 23 & 24 E. marked with
6 notches on the N. S. E. and W.
edges: from which
A cedar, 12 ins. diam., bears
S. 44° W. 53 lks. dist., marked
T. 29 S. R. 23 E. S. 1. B. T.
A cedar, 6 ins. diam., bears
N. 87° W. 52 lks. dist., marked
T. 28 S. R. 23 E. S. 36. B. T.
I do other lines within limits
and raise a mound of stone
2 ft. base, 1½ ft. high, W. of Cor.
Pits impracticable.
The new cor. destroys all
trace of the old Cor.
To find the location of the
S. E. Cor. of this Tp. I run
South on a blank line
along the Colorado Guide
Meridian, with two sets
of chainmen, and at
40.00 chs. I find the ¼ sec. cor.

Resurvey of the Colo. Guide Mer. through Tps. 29 S. Cont.

S. 10° E. 36 lks. dist., and at 80.00 chs. the Sec. cor. bears S. 42° 08' E. 1.42 chs. dist., I continue my line, finding no part of the Colorado Guide Meridian in alinement, and no trace of line or corners in the last 3 miles. the Cor. of Tps. 29 and 30 S., Rs. 23 and 24 cannot be found.
As the townships have not been subdivided I resurvey the Colorado Guide Meridian as follows:
February 5, 1902

Feb. 6: At 8 A. M., l. m. t. I set off 38° 20' N. on the lat. arc: 15° 43' S on the decl. arc: and determine a true meridian
Resurv. at the Frontier Cor. of Tps. 28 and 29 S. Rs. 23 and 24 E. on the Colorado Guide Meridian, (see opposite page of [illegible] *
heretofore described.
Thence I run
South,
bet. secs. 1 and 6.
Over stony land, ascend through dense artimesa.
7.00 Top of ridge, bears E. and W.
Descend.
8.00 Enter heavy cedar and pinion timber., bears E. and W.
22.00 Begin abrupt descent.
27.00 Bottom of ravine, course W. 200 ft. deep, ascend.
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 porphyry stone, 14×10×5 ins.
10 ins. in the ground for
reëstablished ¼ sec cor.
marked ¼ S. on W. face
from which
A cedar, 12 ins. diam., bears N. 10° W., 8
lks. dist. marked ¼ S. 1. B.T.
A pinion, 6 ins. diam. bears S. 40° E., 16 lks.
dist. marked ¼ S. 6. B.T.
From this point the old ¼ sec.
Cor., which is a gray sandstone
6×10×4 ins. above the ground,
marked and witnessed as
described by the Surveyor General
bears S. 40° E. 36 lks. dist.
I destroy all traces of the cor.
and obliterate all marks on
the bearing trees.
44.00 Top of spur, projects W.
Descend.
46.00 Leave timber, bears N. W. and S. E.
64.00 Bottom of ravine, 100 ft. deep.
Course W. ascend.
72.00 Top of spur, projects W.
Descend.
73.00 Leave stony land, enter
bottom land, bearing N. W.
and S. E.
Cliff bet. measurements of 80.00 chs.;
My two sets of chainmen is 10 lks.
By 1st set 79.95 chs.
By 2nd set 80.05 chs. the mean
of which is
80.00 Set a porphyry stone, 15×8×6 ins.
10 ins. in the ground for
reëstablished Cor. of Secs. 1, 6, 7 & 12
marked with 5 notches on the

Chains

S. and 1 notch on the N. edges:
And raise a mound of stone,
2 ft. base, 1½ ft. high, N. of cor.
Pits impracticable.
From this point the old cor.
which is a basalt stone
8 x 8 x 5 ins. above the ground.
marked as described by the
Surveyor general, bears
S. 42° 38' E. 1.42 chs. dist.
I destroy all traces of the
old cor.
Land, mountainous.
Soil stony and bottom land,
2nd and 3rd Rate.
Timber, cedar and pinion.
Heavily timbered, dense
undergrowth on Mountainous
land. 80.00 Chs.

South.
bet. Secs. 7 and 12.
Over level bottom land,
through dense artimesia.
3.00 Wash, 15 ft. wide, 15 ft. deep,
Course N. 20° W.
11.50 Leave bottom land, ascend,
over stony land.
22.00 Top of spur, trends E.
Descend abruptly over
Sandstone ledges, bearing E. and W.
34.00 Foot of abrupt descent.
36.00 Wash, 8 ft. wide, 10 ft. deep,
Course N. E.
Leave stony land, ascend.
37.00 Road, bears N. E. and S. W.
Difference bet. measurements of
40.00 Chs. by two sets of chainmen.

Resurvey of the Colorado - Guide
Meridian, through Tps. 29 S., Ret. Rs. 23 and 24 E. Con

Chains

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, 24 x 12 x 10 ins.
18 ins. in the ground, for
re-established 1/4 sec. cor. marked
1/4 S. on W. face: and raise a
mound of stone, 2 ft. base,
1½ ft. high, W. of cor.
Pits impracticable.
From this point the old 1/4
sec. cor. which is a sandstone
6 x 10 x 6 ins. above the ground,
marked as described by the
Surveyor general, bears S. 17° 06' E.
1.94 chs. dist.,
I destroy all traces of the old
cor.
62.50 Road from La Sal post-office
to Moab, bears E. and W.
62.75 Wire fence, bears E. and W.
Difference of measurements of
80.00 chs., by two sets of
Chainmen is 4 lks.
position of middle point
By 1st Set. 80.02 chs.
By 2nd Set 79.98 chs.
The mean of which is
80.00 Set a porphyry stone, 16 x 12 x 4
ins. 11 ins. in the ground,
for re-established Cor. of Secs.
7, 12, 13 and 18 marked with 4
notches on S. and 2 notches
on W. edges: dig pits 18 x 18 x 12
ins. in each Sec. 5½ ft. dist.,
and raise a mound of earth
4 ft. base, 2 ft. high,
W. of Cor.
From this point the old sec.

Resurvey of the Colorado Guide
Meridian, through Tps. 29 S., bet. Rs. 23 and 24 E. Continued

Chains	
	Cor., which is a sandstone 8×12×4 ins. above the ground, marked as described by the surveyor general, bears S. 20°40' E., 2.95 chs. dist.
	I destroy all signs of the old cor.
	Land, bottom land and rolling.
	Soil, stony and loam.
	2nd and 3rd Rate.
	No timber.
	dense undergrowth, 80.00 chs.
	South,
	bet. secs. 13 and 18.
	Gradually ascending through dense artimesa.
10.30	Wash. 8 ft. wide, 2 ft. deep, Course N. W.
17.00	Enter cultivated land. bears E. and W.
27.00	Leave cultivated land.
	Wire fence, bears E. and W.
	Enter dense artimesa.
	difference bet. measurements of 40.00 chs., by two sets of chainmen is 2 lks.
	position of middle point
	By 1st set 79.99 chs.
	By 2nd set 80.01 chs.
	The mean of which is
40.00	Set a porphyry stone 18×6×6 ins. 12 ins. in the ground for reëstablished ¼ sec. cor. marked ¼ S on W. face: dig pits 18×18×12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base.

1½ ft. high. W. of cor.
After diligent search no
trace of the old ¼ sec. cor.
can be found.
79.00 Wash. 8 ft. wide, 3 ft. deep.
Course N. E.
Difference bet. measurements
of 80.00 chs. by two sets of
chainmen, is 4 lks.
position of middle point
By 1st Set 80.02 chs.
By 2nd Set 79.98 chs.:
the mean of which is
80.00 Set a sandstone, 15×8×8 ins.
10 ins. in the ground, for
reestablished cor. of secs.
70.00 / 10.00 13, 18, 19 and 24 marked with
3 notches on the N. and S.
edges: dig pits 18×18×12 ins.
in each sec. 5½ ft. dist.,
and raise a mound of earth,
4 ft. base, 2 ft. high. W. of cor.
From this point the old
cor. which is a sandstone
8×9×8 ins. above the ground
marked as described by the
surveyor general, bears
S. 20° 09' E. 3.10 chs. dist.
I destroy all traces of the
old cor.
Land, rolling.
Soil, loam. 2nd Rate.
No timber.
Dense undergrowth, 70.00 chs.
Feb. 6: At this cor. I set off 15° 42' S.
on the decl. arc: and at 8h 14m p.m.
l.m.t. observe the sun on the
meridian the resulting lat.
is 38° 17' N.

Resurvey of the Colorado Guide Meridian through Tps. 29 S. bet. Rs. 23 and 24 E. Continued

Chains	
	South.
	bet. Secs. 19 and 24.
	Gradual ascent through
	dense artimesa.
	Difference between measurements
	of 40.00 chs., by 2 sets of chainmen
	is 4 lks.: position of middle point:
	By 1st set. 39.98 chs.
	By 2nd set. 40.02 chs.:
	the mean of which is
40.00	Set a pinion post, 3 ft. long, 3 ins. sq. with marked stone, 24 ins. in the ground, for
	reestablished ¼ Sec. cor., marked
	¼ S. 24, on W. and 19 on E. faces:
	Dig pits 18 × 18 × 12 ins. W. and S. of
	post, 3 ft. dist, and raise a
	mound of earth, 3½ ft. base,
	1½ ft. high, W. of cor.
	After diligent search, no
	trace of old ¼ sec. cor. can be
	found.
43.00	Enter heavy cedar and pinion
	timber, bears E. and W.
47.75	Top of ridge, bears E. and W.
	Descend over rocky land.
72.50	Bottom of chasm, 60 ft. deep,
	Course S. W.
	Ascend.
	Difference bet. measurements of
	80 chs. by two sets of chainmen is
	10 lks.: position of middle point,
	By 1st set, 79.95
	By 2nd set, 80.05
	the mean of which is
80.00	Set a sandstone 20 × 10 × 3 ins.
	15 ins. in the ground, for
	reestablished cor. of Secs.
	19, 24, 25 and 30, marked with
	2 notches on S. and 4 notches
	on W. edges:

Resurvey of the Colorado Guide
Meridian through Tps. 29 S. bet. Rs. 23 & 24 E. Con

	Chains	from which
		A cedar, 24 ins. diam., bears
		N. 28° 30' E., 30 lks. dist., marked
		T. 29 S., R. 24 E., S. 19, B. T.
		A cedar, 20 ins. diam., bears
		S. 55° E., 27 lks. dist., marked
		T. 29 S., R. 24 E., S. 30, B. T.
		A pinion, 24 ins. diam., bears
		S. 4° W., 26 lks. dist., marked
		T. 29 S., R. 23 E., S. 25, B. T.
		A pinion, 6 ins. diam., bears
		N. 34° W., 79 lks. dist., marked
		T. 29 S., R. 23 E., S. 24, B. T.
		After diligent search no trace
		of old Cor. can be found.
		Land, rolling and mountainous.
		Soil, 1st 48.00 chs. loam, 2nd Rate
		Rest, rocky, 4th Rate.
		Timber cedar and pinion.
		Mountainous land, heavily
		timbered or dense
		undergrowth, 80.00 chs.
		South.
		bet. secs. 25 and 30.
		Ascend, through heavy cedar
		and pinion timber.
	.50	Top of spur, projects S. W.
		Descend.
	8.00	Begin abrupt descent over
		sandstone ledges, bearing
		S. W. and N. E.
	15.00	Bottom of ravine, 150 ft. deep.
		Course S. W.
		Ascend.
	33.00	Top of rocky ridge, bears
		N. E. and S. W.
		Descend.

Resurvey of the Colorado Guide Meridian, through Tps. 29 S. bet. Rs. 23 & 24 E. Continued

Chains	
35.00	From this point a circular gray sandstone castle, 200 ft. base, 250 ft. high, bears N. 50 lks. dist.
	Difference bet. measurements of 40.00 chs. by two sets 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	Falls on smooth sandstone ledge. I cut a cross (X) at exact cor. point for re-establishment, Sec. Cor. and mark ¼ S. on W. side of cross: from which
	A pinion, 5 ins. diam., bears N. 8° E. 20 lks. dist., marked T. 29 S. R. 24 E. S. 30 B. T.
	A pinion, 6 ins. diam., bears N. 88° W., 60 lks. dist., marked T. 29 S. R. 23 E. S. 25. B. T.
	After diligent search, no trace of old Cor. can be found.
55.00	Bottom of ravine, 200 ft. deep, course S. W. Leave timber.
	Abrupt ascent:
62.60	Top of sandstone spur ridge projecting S. W.
	Begin abrupt descent:
79.25	Bottom of canon, 700 ft. deep, course S. W.
	Ascend
	Difference bet. measurements of 80.00 chs. of 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 36 x 24 x 10 ins.

Resurvey of the Colorado Guide Meridian, through Tps. 29 S., bet. Rs. 23 and 24 E. Cont.

Chains	
	27 ins in the ground, for reestablished Cor. of secs. 25, 30, 31 and 36. marked with 1 notch on the S. and 5 notches on the W. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W of Cor.
	Pits impracticable.
	After diligent search, no trace of old Corner, can be found.
	Land, mountainous.
	Soil, stony. 4th Rate.
	Timber, Cedar and pinion.
	Mountainous land, 80.00 chs.
	South,
	bet. secs. 31 and 36.
	Over sandstone ledges.
	ascend abruptly.
18.50	Top of spur ridge, projects S. W.
	Descend abruptly.
32.00	Bottom of Canon, 500 ft deep.
	Course S. W.
	Enter scattering Cedar and pinion timber.
	Abrupt ascent.
38.00	Top of spur ridge, projects S. W.
	Descend.
	Difference bet. measurements of 40.00 chs. by two sets of Chainmen is 22 lks.
	position of middle point.
	By 1st Set 39.89 chs.
	By 2nd Set 40.11 chs.
	the mean of which is
40.00	Set a sandstone 20×10×4 ins. 15 ins. in the ground, for

Resurvey of the Colorado - Inside Meridian, through Tps. 29 S., bet. Rs. 23 and 24 E. Cont.

Chains	
	Reestablished ¼ Sec. Cor., marked ¼ S. on W. face: and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of cor.
	Pits impracticable.
	After diligent search, no trace of old Cor. can be found.
70.50	Bottom of Cañon, 300 ft. deep.
	Course S. W.
	Ascend abruptly.
76.50	Top of spur ridge, projects S. W.
	Entire heavy cedar and pinion timber.
	Descend.
	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 26 x 14 x 4 ins. 19 ins. in the ground for reestablished Cor. of Tps. 29 and 30 S., Rs. 23 and 24 E. marked with 6 notches on the N. S. E. and W. edges:
	from which
	A pinion, 14 ins. diam., bears N. 47° E., 92 lks. dist., marked T. 29 S., R. 24 E., S. 31., B. T.
	A pinion, 12 ins. diam., bears S. 72° E., 68 lks. dist., marked T. 30 S., R. 24 E., S. 6., B. T.
	A cedar, 24 ins. diam., bears S. 30° W., 50 lks. dist., marked T. 30 S., R. 23 E., S. 1, B. T.
	A pinion, 10 ins. diam., bears N. 39° W., 27 lks. dist., marked

Resurvey of the Colorado - Guide
Meridian, through Tps. 29 S., Rs. 23 & 24 E. Concluded

T. 29 S., R. 23 E., S. 36 B. T.
After diligent search no trace
of old Tp. Cor. can be found.
Land, mountainous.
Soil, rocky, 4th Rate.
Timber, Cedar and pinion.
Mountainous land, 80 00 chs.
February 6. 1902.

For General Description see subdivision
notes of this township.

Hubert D. Page
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 Hubert D. Page, 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 Colorado Guide Meridian through T. 29 S. between Rs. 23 and 24 E. of the Salt Lake base and meridian in the state of Utah.

showing the respective capacities in which they acted:

Jay Morrison, Peter Meyer, Chainman.
Edward Cannell, Hale Cherry, Chainman.
Joseph Rasmussen, Moundman.
, Moundman.
Vern Lyman, Axman.
, Axman.
John Baker, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, United States Deputy Surveyor, in surveying all those parts or portions of the Colorado Guide Meridian through T. 29 S. between Rs. 23 and 24 E., of the Salt Lake base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by 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.

Jay Morrison, Peter Meyer, Chainman.
Edward Cannell, Hale Cherry, Chainman.
Joseph Rasmussen, Moundman.
, Moundman.
Vern Lyman, Axman.
, Axman.
John Baker, Flagman.

Subscribed and sworn to before me this 8th day of March, 1902.

Hubert D. Page
U.S. Deputy Surveyor.

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page, 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 the 11th day of November, 1901, 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 Colorado Guide Meridian Tp. 29 S. Between Rs 23 & 24 E.

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

Hubert D. Page
United States Deputy Surveyor.

Subscribed by said Hubert D. Page, and sworn to before me this 11th day of March, 1902

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Mar. 25, 1902, 189

The foregoing field notes of the survey of the Colorado Guide Meridian Township 29 South between Ranges 23 & 24 East of the Salt Lake Base and Meridian, Utah

executed by Hubert D. Page under his contract No. 247, dated November 11, 1901, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

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

.....
United States Surveyor General.

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BOOK A-284

FIELD NOTES

OF THE SURVEY OF THE

R.3.B.

North and South Boundaries

of

Township 2 South Range 23 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Herbert J. Page, United States Deputy Surveyor,

Under his Contract No. 24, dated November 11 1901, 189

Survey commenced February 7 1902, 189

Survey completed " 9 1902, 189

6—151

N. Bdry - high 1-00-00 ✓
S. " " 2-00-00 ✓

B[illegible] [illegible]84

NAMES AND DUTIES OF ASSISTANTS.

Pete Meyer	Chairman
Jay Morrison	"
Joseph Rasmussen	Mundman
Van Leyman	Ceremonial
John Baker	Stagemaker

For preliminary affidavit see book F 731 S R 93

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BOOK A-284

INDEX DIAGRAM.

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....

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

.....

....., *Chainm*

....., *Chain*

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

SEAL

.....

WE, ... and .....

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

.....

....., *Moundma*

....., *Moundma*

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

SEAL

.....

WE, ... and .....

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

.....

....., *Axma*

....., *Axma*

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

SEAL

.....

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

.....

....., *Flagma*

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

SEAL

.....

Survey of the S. bdy. of T. 29 S. R. 23 E.

Survey Commenced, February 7. 1902 and executed with a H. and L. E. Gurley light mountain transit - No. - with solar attachment.
The horizontal limb being provided with two opposite verniers reading to single minutes of arc.
I know from recent observations taken February 2 and 3. 1902, at my Camp on Hatch Wash, and recorded in book, J.
of this survey, the instrument to be in adjustment.
I begin at the ascertained Cor. of Tps. 29 and 30 S. Rs. 23 and 24 E. heretofore described, on the Colorado Guide Meridian.
At 8 A. M. L. M. T. I set off 38° 15' N. on the lat. arc: 15° 24' S on the decl. arc: and determine a true meridian with the solar.
Thence I run
West, on a random line, along the S. bdy. of secs. 35 and 36, setting temp. 1/4 secs. and sec. cors. at intervals of 40.00 chs. and at 160.00 chs. the Cor. of Secs. 2, 3, 34 and 35 - Cannot be found.
I continue my random line, and find no trace of the S. bdy. of T. 29 S. R. 23 E., and at 47.94 chs. allowing for Convergency of Meridians I set a temp. Cor. for the Cor. of Tps. 29 and 30 S., Rs. 22 and 23 E.
Note:
The permanent Cor. is set, during the resurvey of the S. bdy. of T. 29 S. R. 23 E, described in book of this survey.

Survey of the S. bdy. of T. 29 S. R. 23 E. Continued

Chains

As no trace can be found of the Cor. of secs. 2, 3, 34 and 35, I proceed to survey the S. bdy. of secs. 35 and 36 as follows:

I begin at the reestablished Cor. of Tps. 29 and 30 S., Rs. 23 and 24 E., heretofore described, on the Colorado Guide Meridian.

February 7: At 2 P. M., L. M. T. I set off 38°15' N on the lat. arc; 15°21' S. on the decl. arc: and determine a true meridian with the Solar.

Thence I run,

West,

Along the S. bdy.

Bet. secs. 1 and 36.

Over stony land, ascend through heavy cedar and pinion timber.

1.50 Foot of Sandstone ledges, bear N. E. and S. W.

8.00 Top of Sandstone ledges, 150 ft. high, bear N. E. and S. W.

15.00 Top of ridge, bears N. E. and S. W. descend.

22.00 Bottom of Canon, 250 ft. deep, Course S. W. ascend.

29.00 Top of Sandstone spur projects N. E. Leave timber.

descend over sandstone ledges.

40.00 Falls on a smooth sandstone ledge, I cut a cross (X) at exact point for ¼ Sec. Cor. and mark ¼ S. on N. side of cross: raise a mound of stone, 2½ ft. base, 1½ ft. high, N. of Cor.

Pits impracticable.

40.25 Foot of Sandstone ledges, bear N. E. and S. W.

Enter bottom land and dense timber.

49.00 Wash, 10 ft. deep, 10 ft. wide, Course S. W.

57.00 Leave bottom land.

Foot of Sandstone ledges, bear N. E. and S. W.

Ascend.

Survey of the S. bdy. of T. 29 S., R. 23 E. Continued.

Chains	
75.00	Top of rocky spur, projects S.
	Descend, over sandstone ledges.
80.00	Point for Cor. falls on a smooth sandstone ledge: I cut a cross (x) at exact point for corner of secs. 1, 2, 35 and 36. and mark 5 grooves on N. and 1 groove on E. side of cross: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of Cor.
	Pits impracticable.
	Land mountainous.
	Soil, bottom land and rocky, 2nd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous land, 80.00 chs.
	West, along the S. bdy. of Tp. bet. secs. 2 and 35.
	Descend over sandstone ledges.
2.50	Draw, 30 ft. deep, Course S. ascend.
10.00	Top of Spur, 250 ft. above sec. cor. projects S.
	Descend through scattering timber.
40.00	Set a sandstone 26×12×6 ins. 19 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of Cor.
	Pits impracticable.
43.00	Top of sandstone ledges, bear N. E. and S. W.
	Begin abrupt descent.
49.00	Bottom of ravine, 150 ft. deep, Course S. W. ascend.
66.00	Top of ridge, bears N. and S. descend.
80.00	Set a sandstone, 16×14×4 ins, 11 ins. in the ground for reëstablished Cor. of secs. 2, 3, 34 and 35. marked with

Survey of the S. bdy. of T. 29 S. R. 23 E. Co

Chains

4 notches on the W. and 2 notches on the E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high.
W. of Cor.
Pits — impracticable.
No trace of old Cor. can be found.
Land, mountainous.
Soil, rocky, 4th Rate.
Timber, cedar and pinion.
Mountainous land, 80.00 chs.
Febuary 7. 1902.

Survey of the W. bdy. of T. 29 S. R. 23 E.

I begin at the established Cor. to Tps. 28 and 29 S., R. 23 and 24 E. heretofore described on the Colorado Guide Meridian.
Febuary 9: At 2 p. m., l. m. t. I set off 38° 20' W. on the lat. arc: 14° 44' S on the decl. arc: and determine a true meridian with the solar.
Thence I run
West, on a random line, along the W. bdy. of Sec. 1, setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs. and at 80.00 chs. the Cor. of secs. 1, 2, 35 and 36, which is a sandstone 10 x 8 x 8 ins. above ground, marked and witnessed as described by the surveyor general, bears S. 24° W., 34.27 chs. dist.
I dig all traces of the cor. and obliterate the marks on the bearing trees.

Survey of the N. bdy. of T. 29 S. R. 23 E. Continued

Chains	
	I continue my random line, and find no cors. of the N. bdy. of T. 29 S., R. 23 E. and at 478.80 chs., fall 14 lks. N. of the Cor. of Tps. 28 and 29 S., R. 22 and 23 E. heretofore described.
	The following answers to a Correction of 0°01' or 2⅓ lks. S. per mile, Counting from the N. E. cor. of the Tp.
	I return to the Cor. of Tps. 28 and 29 S., Rs. 23 and 24 E. heretofore described, on the Colorado Guide Meridian.
	Thence I run S. 89°59' W. along the N. bdy. of Tp. bet. Secs. 1 and 36.
	Over rolling land, ascend through dense artemisia and scattering Cedar and pinon timber.
14.00	Top of ridge, bears N. and S.
	Descend.
18.00	Enter heavy Cedar and pinon timber, bears N. and S.
33.00	Begin abupt descent, through Scrub timber, over rocky land.
40.00	Set a sandstone 30×14×3 ins., 23 ins in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face: from which
	A Cedar, 5 ins. diam., bears S. 79° W., 22 lks. dist., marked ¼ S. 1, B. T.
	A Cedar, 3 ins. diam., bears N. 85° W., 24 lks. dist., marked ¼ S. 36, B. T.
	From this Cor., a Sandstone 16×10×5 ins. above the ground, marked ¼ S. on N. face: with two bearing trees, properly marked, bears W., 85 lks. dist.

Survey of the N. bdy. of T 29 S. R 23 E. Conclu

Chains	
	I destroy all traces of this cor. and obliterate marks on the bearing trees.
41.50	Foot of abrupt descent, bears N and S. leave rocky land, leave timber bears N and S. descend through dense artemisia.
58.50	Wash, 75 lks. wide, 30 ft deep. Course N.W. ascend.
60.00	Enter scattering timber.
70.00	Enter heavy timber, bears N.W. and S.E.
73.50	Leave timber, bears N.E and S.W.
[illegible].00	Set a sandstone, 24 [illegible] ins. 18 ins. in the ground, for reestablished Cor. of secs 1, 2, 35 and 36, marked with 1 notch on E. and 5 notches on W. edges; and raise a mound of stone, 2 ft base, 1½ ft. high, W of cor. Pits impracticable.

Land, rolling.
Soil, sandy, stony and rocky, 3rd and 4th Rate.
Timber, cedar and pinon.
Heavily timbered or dense undergrowth, 80.00 Chs.
February 9. 1902.

In General Description see subdivisional notes of this township.

Hubert D. Page
U.S. Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

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

Original appointed for Lock F. Page

.....
United States Deputy Survey

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov 25, 1902, 189

The foregoing field notes of the survey of the North & South Boundaries of Township 2 South Range 3 East of the Salt Lake Ba W. Meridian Utah

executed by Herbert S. Page under his contract No. 247, dated November 11 1901, 189, having be critically examined, and the necessary corrections and explanations made, the said field notes, and t surveys they describe, are hereby approved.

Edward Henderson
United States Surveyor Gen

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

.....
United States Surveyor Gene

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BOOK A-284

FIELD NOTES

OF THE SURVEY OF THE

South, West and North

boundaries.

of

Township No. 29 South

Range No. 23 East

Of the Salt Lake base and Meridian,

In the State of Utah

AS SURVEYED BY

Hubert S. Page, United States Deputy Surveyor,

Under his Contract No. 249, dated November 11th, 1901

Survey commenced February 8th 1902

Survey completed " 10th 1902

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Resurvey N-Bdry-Light 4-78-80 ✓

W- " " 6-00-00 ✓

S " " 3-79-44 ✓

BOOK A-284

NAMES AND DUTIES OF ASSISTANTS.

Peter Meyer Chainman.
Jay Morrison "
Joseph Rasmussen Moundman
Vern Lyman Axman
John Baker Flagman.

For preliminary affidavits see book A. Tp. 34 S R 24 E.

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Meanders Page.....

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BOOK A-284

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... *Chain*

..... *Chain*

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

SEAL

.....

.....

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

.....

..... *Mound*

..... *Mound*

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

SEAL

.....

.....

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

.....

..... *Axm*

..... *Axm*

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

SEAL

.....

.....

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

..... *Flag*

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

SEAL

.....

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6—151

Resurvey of the S. bdy. of T. 29 S., R. 23 E.

Chains	
	Survey Commenced, February 8, 1902 and executed with a H. and L. E. Gurley, light mountain transit No. — with solar attachment. The horizontal limb being provided with two opposite veniers reading to single minutes of arc: I know from recent observations taken February 2 and 3, 1902, at my Camp on Hatch Wash, and recorded in book J of this survey, the instrument to be in adjustment. No part of the S. bdy. of T. 29 S., R. 23 E. can be found, I therefor proceed to Resurvey the S. bdy. as follows: I begin at the ascertained Cor. of secs. 2, 3, 34 and 35. heretofore described.
	February 8: At 8 A. M. l. m. t. I set off 38°15' N. on the lat. arc: 15°05' S on the decl. arc: and determine a true meridian with the solar. Thence I run West. along the S. bdy. of the Tp. bet. Secs. 3 and 34.
	Descend, over sandstone ledges.
2.00	Foot of sandstone ledges, bear N. and S. Over level land, through dense artemisia
6.00	Leave level land, begin abrupt ascent over sandstone ledges, bear N. and S.
8.00	Top of sandstone ledges, 150 ft. high. bear N. and S. descend.
16.00	Bottom of ravine, 150 ft. deep, Course S. Ascend.
22.00	Top of rocky ridge, bears N. and S. Descend over sandstone ledges.

Resurvey of the S. bdy. of T. 29 S. R. 23 E. Cont.

Chains	
31.00	Foot of ledges, bear N.E. and S.W. Enter bottom land and dense artemisia.
36.00	Wash, 8 ft. wide, 6 ft. deep, Course S.W.
40.00	Set a Sandstone 20×8×6 ins. 15 ins. in the ground, for reëstablished ¼ Sec. Cor. marked ¼ S. on N. face: dig pits 18×18×12 ins. E. and W. of Stone, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of Cor. No trace of old Cor. Can be found.
45.00	Foot of Sandstone ledges, bear N. and S. Begin abrupt ascent.
47.00	Top of Sandstone ledges, 100 ft. high, bear N. and S. Over rolling land, ascend.
63.00	Enter scattering Cedar and pinon timber and dense artemisia.
68.00	Leave timber.
75.00	Top of ridge, bears N. and S. descend.
80.00	Set a Sandstone 18×10×7 ins. 12 ins. in the ground, for reëstablished Cor. of Secs. 3, 4, 33 and 34 marked with 3 notches on the E. and W. edges: dig pits 18×18×12 ins. in each Sec; 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, N. of Cor. No trace of old Cor. Can be found. Land, rolling and mountainous. Soil, Stony and rocky, 3rd. and 4th. Rate. Timber, Scattering Cedar and pinon. Mountainous land or dense undergrowth, 80.00 chs.

West,
along the S. bdy. of the Tp. bet. Secs. 4 and 33.
descend through dense Artemisia
1.10 Bottom of ravine, 75 ft. deep.

Resurvey of the S. bdy. of T. 29 S., R. 23 E. Continued

Chains	
	Course S. ascend.
30.00	Perpendicular sandstone ledges, 25 ft. high, bears N. and S. ascend.
35.00	Top of ridge, bears N.E. and S.W. Descend over rolling land.
40.00	Set a sandstone 26×6×6 ins. 19 ins. in the ground, for reëstablished ¼ Sec. Cor. marked ¼ S. on N. face: dig pits 18×18×12 ins. E. and W. of stone, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of Cor. No trace of old Cor. can be found.
80.00	Set a sandstone, 12×10×5 ins., 8 ins. in the ground, for reëstablished Cor. of Secs. 4, 5, 32 and 33, marked with 4 notches on N. and 2 notches on E. edges: dig pits 18×18×12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, N. of Cor. No trace of old Cor. can be found. Land, rolling. Soil, stony and gravel, 3rd and 4th Rate. No timber. Dense undergrowth. 80.00 chs.
	West. Along S. bdy. of Tp. bet. Secs. 5 and 32. Over rolling land, descend through dense artemisia.
12.00	Top of sandstone ledges, bear N.W. and S.E. Begin abrupt descent.
20.00	Foot of sandstone ledges, bear N.W. and S.E. Enter bottom land.
24.00	Hudson's Wash, 15 ft. deep, 50 ft. wide, now dry, Course N.W.
40.00	Set a sandstone 24×10×5 ins., 18 ins. in the ground, for reëstablished ¼ Sec.

Resurvey of the S. bdy. of T. 29 S. R. 23 E. Con

Chains

Cor., marked ¼ S. on W. face: dig pits 18×18×12 ins. E. and W. of Stone, 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of Cor.
No trace of old Cor. can be found.

45.00 Foot of perpendicular sandstone ledges, 100 ft. high, bear W. W. and S. E. ascend.

47.00 Leave. Sandstone ledges over stony land.

78.00 Top of perpendicular sandstone ledges, 150 ft. high, bear N. E. and S. W. descend.

80.00 In a Cove of Hudson Wash.
Set a red Sandstone, 24×12×12 ins., 18 ins. in the ground, for reëstablished Cor. of secs. 5, 6, 31 and 32, marked with 1 notch on the W. and 5 notches on the E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor.
Pits impracticable.
This Cor. is 20 lks. north of a Cove in perpendicular sandstone ledges, 150 ft. high, from this Cove the ledges bear N. E. and N. W.
No trace of old Cor. can be found.
Land, rolling and mountainous.
Soil, stony and rocky, 3rd. and 4th. Rate.
No timber.
Mountainous land or dense undergrowth, 80.00 chs.

West,
along the S. bdy. of Tp.
bet. secs. 6 and 31.
Over stony land, through dense Artemisia.

2.00 Foot of perpendicular sandstone ledges, 150 ft. high, bear W. W. and S. E. ascend.

3.50 Top of sandstone ledges,

Resurvey of the S. bdy. of T. 29 S., R. 23 E. Concluded.

Chains

Descend over stony land.

19.00 Road from Moab to Monticello, bears N. and S.
Enter broken and rolling sandstone ledges, bearing N. and S.

40.00 Falls on a smooth sandstone ledge, I cut a cross (x) at exact point for reestablished ¼ sec. cor. marked ¼ S. on N. side of cross, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of Cor.
Pits impracticable.
No trace of old Cor. can be found.

60.00 Bottom of ravine, 150 ft. deep, Course N.
Descend over sandstone ledges.

79.44 Point for Cor. falls on a smooth sandstone ledge, I cut a cross (x) at exact point for reestablished Cor. of Tps. 29 and 30 S., Rs. 23 and 22 E., and mark 6 grooves on the N. S. E. and W. sides:
from which
A pinon, 12 ins. diam., bears S. 4° 30' E., 2.38 Chs. dist., marked T. 30 S. R. 23 E., S. 6. B. T.
The north edge of Hatch Rock, bears N. 88° W., 55.00 Chs. dist.
No other bearing objects within limits.
and raise a mound of stone, 2½ ft. base, 1½ ft. high, S. of Cor.
Pits impracticable.
No trace can be found of the old Tp. Cor.
Land, mountainous.
Soil, stony and rocky, 3rd. and 4th. Rate.
No timber
Mountainous land. 79.44 Chs.
Feb. 8: At this cor. I set off 15° 54' S. on the decl. arc: and at 0h 14m p.m., l. m. I observe the sun on the meridian: the resulting lat. is 38° 15' N.

Resurvey of the W. bdy. of T. 29 S., R. 23 E.

Chains

A. No trace can be found of the S. bdy. or the S.W. Cor. of the Tp. I therefore resurvey the W. bdy. as follows:
Beginning at the reëstablished Cor. of Tps. 29 and 30 S., Rs. 22 and 23 E. heretofore described.
I run North on a true line, along the W. bdy. of Tp.
bet. secs. 31 and 36.
Ascend over sandstone ledges.

3.00 Leave ledges, bear N.E. and S.W. over sandy land, through scattering artemisia and bunch grass, ascend.

33.00 Top of ridge, bears E. and W. descend.

35.00 Enter scattering cedar and pinion timber.

38.50 Descend over sandstone ledges, bearing E. and W.

40.00 Falls on a sandstone ledge, I cut a cross (x) at exact point for reëstablished ¼ sec. cor. marked ¼ S. on W. side of cross.
from which
A cedar, 5 ins. diam., bears N. 7° E. 65 lks. dist. marked ¼ S. 31. B. T.
A cedar, 6 ins. diam., bears S. 73° W. 105 chs dist. marked ¼ S. 36. B. T.
No trace of old Cor. can be found.

47.00 Perpendicular sandstone ledges, 125 ft. high, bear N.W. and S.E.
Leave timber. descend.

48.00 Leave sandstone ledges
Enter bottom land and dense artimesa.

61.00 Elbow of Hudson's Wash Creek, 5 lks. wide, 4 ins. deep, pure water, in a wash, 5 chs. wide, 40 ft. deep, Course from S.E. to N.E.

78.20 Leave bottom land.
Ascend over sandstone ledges, bearing N.E. and S.W.

Resurvey of the W. bdy. of T. 29 S. R. 23 E. Continued.

Chains	
79.35	Top of sandstone spur, projecting N. E. Descend over sandstone ledges.
80.00	Point for Cor. falls on a smooth sandstone ledge, I cut a cross (X) at exact point for reestablished Cor. of secs. 25, 30, 31 and 36. and mark 1 groove on S. and 5 grooves on N. side of cross: And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable. No trace of old Cor. can be found. Land, mountainous. Soil, rocky, stony and loam. 2nd, 3rd and 4th Rate. Timber, Cedar and pinion. Mountainous land or dense undergrowth. 80.00 chs.
	North. along W. bdy of Tp. bet. secs. 25 and 30. Descend abruptly over sandstone ledges.
4.00	Hudson Wash, Creek, 5 lks. wide, pure water, 4 ins. deep, in a wash, 4.50 chs. wide, 50 ft. deep, Course N. W. Leave sandstone ledges, Ascend.
7.00	Over bottom land, through dense artimesia.
18.00	Leave bottom land, ascend over sandstone ledges, bearing E. and W. Enter scattering timber.

Resurvey of the W. bdy. of T. 29 S. R. 23 E. Con

Chains	
23.00	Road to Hatch Ranch, bears N.E. and S.W.
30.00	Leave sandstone ledges and timber, bear E. and W.
33.00	Top of ridge, bears E. and W. Descend.
34.25	Begin abrupt descent over sandstone ledges.
35.25	Bottom of ravine, 150 ft. deep, Course W. Abrupt ascent over sandstone ledges.
40.00	Point for Cor. falls on a steep slope and cannot be set.
40.50	Top of rocky spur, projects W. Set a sandstone 30 x 12 x 4 ins. 23 ins. in the ground, for witness Cor. to reëstablished 4 sec. cor. marked W. E. 4 S. on W. face and raise a mound of stone 2 ft. base, 12 ft. high, W. of Cor. Pits impracticable. No trace of old Cor. can be found.
41.25	Bottom of ravine, 100 ft. deep, Course W. Ascend over broken sandstone ledges, through scattering cedar and pinion timber.
68.00	Leave sandstone ledges, bear N.E. and S.W. Over sandy land.
72.00	Top of ridge, bears N.E. and S.W. Leave timber. Descend.
80.00	Set a sandstone, 20 x 10 x 6 ins. 15 ins. in the ground for reëstablished Cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges. Dig pits 18 x 18 x 12

Resurvey of the W. bdy. of T. 29 S., R. 23 E. continued

Chains	
	ins. in each sec. 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. No trace of old cor. can be found. Land, Mountainous and rolling. Soil, Sandy and rocky. 3rd and 4th Rate. Timber, Cedar and pinion. Mountainous land, or dense undergrowth, 80.00 lks.
	North, along W. bdy. of Tp., bet. secs. 19 and 24. Descend, through dense
14.00	Enter heavy cedar and pinion timber, bears E. and W.
14.50	Draw, 30 ft. deep, course S. W. Ascend.
37.50	Top of ridge, bears E. and W. Leave heavy timber, bears E. and W. Enter scattering timber. Descend.
40.00	Set a sandstone 24×6×6 ins. 18 ins. in the ground, for sec. tablished ¼ sec. cor. Marked ¼ S. on the W. face; from which A cedar, 12 ins. diam., bears W. 74° E., 25 lks. dist., marked ¼ S. 19. B. T. No other trees within limits.

Resurvey of the W. bdy. of T. 29 S. R. 23 E. Con

Chains

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

48.00 Begin abrupt descent over sandstone ledges, bearing N. E. and S. W.

58.00 Bottom of ravine, 300 ft. deep. Course S. W.

Begin abrupt ascent.

67.00 Top of steep ascent, leave timber, ascend gradually.

80.00 Set a sandstone 22 x 8 x 4 ins. 17 ins. in the ground, for reestablished cor. of Secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges; dig pits 18 x 18 x 12 ins. in each Sec., 5½ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

No trace of old cor. can be found.

Land, rolling and mountainous.

Soil, sandy and rocky.

3rd and 4th Rate.

Timber, cedar and pinion.

Mountainous land, dense undergrowth or heavily timbered. 80.00 chs.

North.

Along the W. bdy. of Tp.

bet. Secs. 13 and 18.

Ave. gradual ascent, through dense artimisa.

6.50 Wash, 20 ft. wide, 10 ft. deep. Course W.

10.00 Enter heavy cedar and pinion timber. Bears E. and W.

Resurvey of the W. bdy. of T. 29 S. R. 23 E. Continued

Chains	
32.00	Wash, 15 ft. wide, 10 ft. deep Course S. E. Ascend over broken Sandstone ledges.
40.00	Falls on a Sandstone ledge. I cut a cross (x) at exact point for reëstablished ¼ sec. cor. and mark ¼ S. on W. side of cross: from which A cedar, 10 ins. diam., bears S. 25° W., 22 lks. dist., marked ¼ S. 13. B. T. A cedar, 6 ins. diam., bears W. 38° E., 47 lks. dist., marked ¼ S 18. B T. No trace of old cor. can be found.
80.00	Set a Sandstone 24 x 15 x 6 ins. 18 ins. in the ground, for reëstablished cor. of secs. 7, 12, 13 and 18. marked with 4 notches on S. and 2 notches on W. edges: from which A pinion, 6 ins. diam., bears W. 19° E., 31 lks. dist., marked T. 29 S., R. 23 E., S. 7. B. T. A cedar, 10 ins. diam., bears S. 77° 30' E., 23 lks. dist., marked T. 29 S., R. 23 E., S. 18. B. T. A pinion, 15 ins. diam., bears S. 51° W., 9 lks. dist., marked T. 29 S., R. 22 E., S. 13. B. T. A cedar, 4 ins. diam., bears W. 57° W., 67 lks. dist., marked T. 29 S., R. 22 E., S. 12. B. T. No trace of old cor. can be found. Land, rolling. Soil, Sandy and rocky. 3rd and 4th Rate.

Resurvey of the W. bdy. of T. 29 S. R. 23 E. Contd.

Chains	
	Timber, Cedar and pinion. Heavily timbered or dense undergrowth. 80.00 Chs. February 8, 1902.
	Feb. 9: At 8 A.M., C.M.T. I set off 38°18' N. on the lat. arc: 14°46' S. on the decl. arc: and determine a true meridian with the Solar, at the Cor. of Secs. 7, 12, 13 and 18. Thence I run North, along the W. bdy. of Tp. bet. Secs. 7 and 12. Over rocky land, ascend through heavy Cedar and pinion timber.
4.00	Top of ridge, bears N.W. and S.E. Descend through dense artimesa.
13.00	Leave timber, bears N.W. and S.E.
40.00	Set a Sandstone 18 × 12 × 8 ins 12 ins. in the ground, for reëstablished ¼ Sec. Cor. marked ¼ S on W face: dig hits 18 × 18 × 12 ins., N. and S. of stone, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. No trace of old Cor. can be found.
41.25	Bottom of ravine, 150 ft. deep, Course W., ascend.
56.50	Top of Spur, projects W. Descend.
74.00	Clean, 25 ft. deep, Course S.W. Ascend.
80.00	Set a Sandstone 18 × 12 × 8 ins. 12 ins. in the ground, for reëstablished Cor. of Secs.

Survey of the W. bdy. of T. 22 S., R. 23 E. Continued.

Chains	
	1, 6, 7 and 12. marked with 5 notches on S. and 1 notch on N. edges: dig pits 18×18×12 ins. in each Sec. 5½ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. No trace of old cor. can be found. Land, rolling. Soil, Stony and rocky, 3rd and 4th Rate. Timber, Cedar and pinion. Heavily timbered or dense undergrowth. 80.00 chs.
	North, Along W. bdy. of Tp. bet. Secs. 1 and 6. Over rolling land, ascend through dense artinesia.
13.00	Top of rocky spur, projects W. Descend.
40.00	Set a sandstone 20×14×3 ins. 15 ins. in the ground, for reestablished ¼ Sec. Cor., marked ¼ S. on W. face: dig pits 18×18×12 ins. N. and S. of stone, 3 ft. dist. and raise a mound of stone, 3½ ft. base, 1½ ft. high, W. of cor. No trace of old Cor. can be found.
46.00	Wash, 25 ft. wide, 10 ft. deep, Course E. Ascend.
60.00	Top of rocky spur, projects S. E. Descend, though scattering timber.
71.00	Coyote Creek, now dry, in ravine, 150 ft. deep, Course W. Ascend.

Resurvey of the W. bdy. of T. 29 S. R. 23 E. Cond.

	Chains	
—	80.00	Set a sandstone 16 × 14 × 10 ins 12 ins. in the ground for reestablished Cor. of Tps. 28 and 29 S., Rs. 22 and 23 E. marked with 6 notches on the N. S. E. and W. edges: from which A pinion, 4 ins. diam., bears N. 42° 30' E., 86 lks. dist., marked T. 28 S., R. 23 E., S. 31, B. T. A cedar, 10 ins. diam., bears S. 32° E., 50 lks. dist., marked T. 29 S., R. 23 E., S. 6, B. T. A pinion, 6 ins. diam., bears S. 45° W., 65 lks. dist., marked T. 29 S., R. 22 E., S. 1, B. T. A cedar, 8 ins. diam., bears N. 18° W., 55 lks. dist., marked T. 28 S., R. 22 E., S. 36, B. T. No trace can be found of the old Tp. Cor. Land, rolling Soil, sandy and stony Timber, cedar and pinion. Dense undergrowth. 81.00 chs February 9: At this cor I set off 14° 45' S on the decl. arc: and at 6h 14m p.m., l.m.t. observe the sun on the meridian. The resulting lat. is 38° 20' N.

Resurvey of the N. bdy. of T. 29 S., R. 23 E.

February 10: At 8 A.M. l.m.t.
I set of 38° 25' N. on the
lat. arc: 14° 27' S. on the
decl. arc: and determine a
true meridian with the Solar.
at the reëstablished Cor. of
Secs. 1, 2, 35 and 36.
heretofore described.

* Thence I run
S. 89° 59' W. as indicated by random line see note Survey of Natl. Bdy. Bed K
along the N. bdy. of the Tp.
bet. secs. 2 and 35.
Descend, through dense
artemisia.

.75 Coyote Creek, now dry, in a wash.
60 ft. wide, 35 ft. deep.
Course S. W.
Ascend.

17.00 Enter heavy cedar and pinon timber,
bears N. and S.
Begin abrupt ascent, over rocky
land.

40.00 Set a porphyry stone, 15×10×5 ins.
10 ins. in the ground, for
reëstablished ¼ sec. Cor
marked ¼ S. on N. face:
from which
A cedar, 5 ins. diam., bears
N., 14 lks. dist., marked
¼ S., 35. B. T.
A cedar, 8 ins. diam., bears
S. 8° W., 12 lks. dist., marked
¼ S. 2. B. T.
No trace of the old Cor. can
be found.

59.00 Top of rocky spur, projecting S.
700 ft. above the Cor. of Secs.
1, 2, 35 and 36.
Descend.

Resumed of the W. bdy. of T. 29 S. R. 23 E. Continued

Chains	
75.50	Begin abrupt descent.
	Bears N. W. and S. E.
	Leave heavy timber.
	Bears N. W. and S. E. on lev
	Scattering timber.
80.00	Set a porphyry stone, 30 x 14 x 8 ins. 24 ins. in the ground, for reëstablished Cor. of Secs. 2, 3, 34 and 35, marked with 2 notches on the E. and 4 notches on the W. edges: and raise a mound of stone, 3 ft. base, 1½ ft. high. W. of Cor.
	Pits impracticable.
	Trace of the old Cor. can be found.
	Land, mountainous.
	Soil, sandy and rocky.
	3rd, 2nd & 4th Rate
	Timber, cedar and pinon.
	Mountainous land. 80.00 chs.
	S. 89° 59' W.
	along the W. bdy. of Tp.
	bet. Secs. 3 and 34
	Over rocky land, descend
	abruptly through scattering
	Cedar and pinon timber.
20.00	Bottom of ravine, 600 ft. deep.
	Course S.
	Ascend.
40.00	Set a porphyry stone, 18 x 14 x 8 ins., 12 ins. in the ground, for reëstablished ¼ Sec. Cor.

Resurvey of the N. bdy. of T. 29 S. R. 23 E. Continued

Chains	
	marked ¼ S. on N. face: from which A cedar, 8 ins. diam., bears N. 15° W., 25 lks. dist., marked ¼ S. 34. B. T. A pinion, 7 ins. diam., bears S. 20° W., 70 lks. dist., marked ¼ S. 3. B. T.
	No trace of old Cor. can be found.
68.00	Top of rocky spur, projects S. W.
	Begin abrupt descent.
79.00	Bottom of ravine, 500 ft. deep, course S. W.
	Ascend.
80.00	Set a porphyry stone, 24×12×5 ins. 18 ins. in the ground, for reestablished Cor. of secs. 3, 4, 33 and 34 marked with 3 notches on E. and W. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trace of old Cor. can be found. Land, mountainous. Soil, rocky, 4th Rate. Timber, cedar and pinion. Mountainous land, 80.00 chs. Feb. 10: At this Cor. I set off 14° 26' S. on the decl. cra: and at 0h. 14m. p. m., l. m. t. observe the sun on the meridian, the resulting lat. is 38° 20' N.
	S. 89° 59' W. along the N. bdy. of Tp.

Resurvey of the W. bdy of T. 29 S. R. 23 E. Cont'd

Chains	
	Bet. secs. 4 and 33.
	Over rocky land, ascend
	through scattering cedar and
	pinion timber.
3.00	Top of rocky spur, projects
	S. W.
	Enter heavy cedar and pinion
	timber, bears W. E. and S. W.
	Descend.
40.00	Set a proprietary stone, 30 x 8 x 5
	ins. 23 ins. in the ground
	for reëstablished ¼ Sec. Cor.
	Marked ¼ S. on W. face:
	from which
	A pinion, 7 ins. diam., bears
	S. 49° W., 41 lks. dist., marked
	¼ S. 4. B. T.
	A pinion, 6 ins. diam., bears
	W. 18 W., 22 lks. dist., marked
	¼ S. 33. B. T.
	No trace of old cor. can be found.
56.00	Bottom of ravine, 100 ft. deep,
	600 ft. below Cor. of secs.
	3, 4, 33 and 34. Course S. W.
	Leave rocky land.
	Ascend.
59.00	Leave heavy timber, bears
	W. and S., enter dense
	aritinsia and scattering
	timber.
71.00	Top of ridge, bears W. and S.
	Descend.
	Leave timber.
80.00	Set a sandstone 18 x 10 x 8 ins.
	12 ins. in the ground, for
	reëstablished Cor. of Secs.
	4, 5, 32 and 33, marked with
	4 notches on E. and 2 notches
	on W. edges, and raise a
	mound of stone 2 ft. base.

Resurvey of the N. bdy. of T. 29 S. R. 23 E. Continued

Chains	
	1½ ft. high, N. of cor. Pits impracticable. No trace of old Cor. can be found. Land, rolling and mountainous Soil, sandy and rocky. 3rd and 4th Rate. Timber, cedar and pinion. Mountainous land, dense undergrowth or heavily timbered. 80.00 Chs.
	S. 89° 59' W. Along the N. bdy. of Tp. bet. secs. 5 and 32. Over rolling land, descend gradually, through dense undergrowth.
33.60	Road, from Moab to Monticello, bears N. W. and S. E.
40.00	Set a sandstone 18×10×4 ins. 12 ins. in the ground, for reëstablished ¼ Sec. Cor., marked ¼ S. on N. face: dig pits 18×18×12 ins. E. and W. of Stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. No trace of old Cor. can be found.
80.00	Set a trachyte stone 20×8×6 ins., 15 ins. in the ground for reëstablished Cor. of secs. 5, 6, 31 and 32 marked with 5 notches on the E. and 1 notch on the W. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

Resurvey of the N. bdy. of T. 29 S. R. 23 E. Cont.

Chains	No trace of old Cor. can be found.
	Land, rolling.
	Soil, sandy loam. 2nd Rate
	No timber.
	Dense undergrowth. 80.00 chs.
	S. 89° 59' W.
	Along the N. bdy. of Tp.
	bet. secs. 6 and 31.
	Cross rolling land, descend
	through dense artimesia.
3.50	Enter scattering cedar and
	pinion timber.
6.00	Sandstone ledges. 20 ft. high,
	bear N. and S. descend
	Cross rocky, broken land,
	along the N. side of Coyote
	Cañon.
9.50	Enter heavy timber, bears
	N. and S.
40.00	Set a sandstone 18 x 12 x 4 ins.
	12 ins. in the ground, for
	reestablished ¼ sec. cor.
	marked ¼ S. on N. face;
	from which
	10 pinion 5 ins diam. bears
	N. 5° E. 20 lks. dist. marked
	¼ S. 31. B. T.
	No other trees within limits.
	And raise a mound of stones
	2 ft. base, 1½ ft. high N. of cor.
	Pits impracticable
	No trace of old cor. can
	be found.
78.80	The reestablished cor. of
	Tps. 28 and 29 S. Rs. 22 and 23 E.
	thus to fore described
	Land, rolling and mountainous

Resurvey of the N. bdy. of T. 29 S. R. 23 E. Continued.

Soil, sandy, stony and rocky, 3rd and 4th Rate.
Timber, cedar and pinion.
Mountainous land, heavily timbered or dense undergrowth. 78.80 chs.
February 10. 1902.

Boundaries of T. 29 S., R. 23 E.

Latitudes, departures and closing errors.

Line designation	True bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs.	Chs.	Chs.	Chs.	Chs.
Colorado Guide Meridian	South	480.00		480.00		
S. bdy. T. 29 S. R. 23 E.	West.	479.44				479.44
N. bdy. T. 29 S. R. 23 E.	North	480.00	480.00			
N. bdy. T. 29 S. R. 23 E.	N. 89°59' E.	478.80	.14		478.80	
Convergency					.56	
Totals			480.14	480.00	479.36	479.44
			480.00			479.36
Error in lat.			.14	Error in dep.		.08

Herbert D. Pagin
U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by ....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of .....

showing the respective capacities in which they acted:

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

FINAL OATH OF ASSISTANTS.

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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

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

SEAL

6—151

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

.....

.....

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

For final office [illegible] Lee Cook N. Tp 29 S R 22 E

.....
United States Deputy Su...

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah Nov 25, 1902, 18

The foregoing field notes of the ~~survey~~ re of the South West & North Bounda Township 29 South Range 23 East of the Salt Lake Base and Meridian Utah

executed by Herbert S Page under his contract No. 247, dated November 11, 1901, ~~189~~, having critically examined, and the necessary corrections and explanations made, the said field notes, an re surveys they describe, are hereby approved.

Edward H Anderson
United States Surveyor Ge...

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

.....
United States Surveyor Gen

6--151

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4—679.

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BOOK A-284

FIELD NOTES

OF THE SURVEY OF THE

Subdivision

of

Township No. 29 South.
Range No. 23 East

Of the Salt Lake Base and Meridian,

In the State of Utah

AS SURVEYED BY

Hubert D. Page, United States Deputy Surveyor,

Under his Contract No. 247, dated Nov 11th, 1901

Survey commenced February 11th 1892

Survey completed " 20th 1892

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high 50-56-63 ✓
low 9-20-32 ✓

54 76 95

BOOK A-284

NAMES AND DUTIES OF ASSISTANTS.

Peter Meyer	Chainman
Jay Morrison	
Joseph Rasmussen	Moundman
Wm Lyman	Axeman
John F. Baker	Flagman

For preliminary affidavits see book B. Tp 34 S R 24 E

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Volume

#

R0284

BOOK A-284

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainma*

....., *Chainma*

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

SEAL

.....

.....

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

.....

....., *Moundma*

....., *Moundma*

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

SEAL

.....

.....

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

.....

....., *Axma*

....., *Axma*

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

SEAL

.....

.....

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

....., *Flagma*

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

SEAL

.....

.....

Subdivision of T. 29 S., R. 23 E.

Chains	
	Survey commenced February 11, 1902 and executed with a W. and L. E. Gurley, light-mountain transit, No. —, with solar attachments. The horizontal limb being provided with two opposite verniers, reading to single minutes of arc: I know from recent observations taken February 2nd and 3rd, 1902, at my camp, on Hatch Wash, and recorded in book K of this survey, the instrument to be in adjustment. I begin at the ascertained cor. of secs. 1, 2, 35 and 36, heretofore described, on the S. bdy. of the Tp. At 8 a. m., l. m. t., I set off 38° 15' W. on the lat. arc: 14° 69' S. on the decl. arc: and determine a true meridian with the solar. Thence I run N. 0° 1' W. bet. secs. 35 and 36. Ascend. over sandstone ledges.
18.00	Top of sandstone ridge, 150 ft. above the sec. cor. bears N. E. and S. W. Descend, enter scattering timber.
26.00	Bottom of ravine, 200 ft. deep. Course S. W. Ascend.
40.00	Falls on a smooth sandstone ledge, I cut a cross (×) at exact point for ¼ sec. cor. and mark ¼ S. on W. side of cross: and raise a mound

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable
48.00	Top of spur ridge, projects S.W. Descend.
54.00	Bottom of ravine, 250 ft. deep. Course S.W. Ascend.
64.00	Top of rocky ridge, bears S.W. and N.E. Descend.
75.00	Bottom of ravine, 150 ft. deep. Course S.W. Ascend.
80.00	Top of rocky spur, projects S.W. Set a sandstone 16×10×4 ins. 11 ins. in the ground, for Cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges: and raise a mound of earth, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 4th Rate. Timber, Cedar and pinion. Mountainous land, 80.00 chs.
	East, on a random line, bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect Colorado Guide Meridian, at the reestablished Cor. of secs. 25, 30, 31 and 36. heretofore described. Thence I run West, on a true line,

Subdivision of T. 29 S., R. 23 E. Continued.

	Bet. secs. 25 and 36
	Over rocky land. descend
	through scattering cedar
	and pinion timber.
1.35	Bottom of Canon, 700 ft. deep,
	Course S. W.
	Ascend over sandstone ledges.
21.00	Top of sandstone ridge,
	bears N. E. and S. W.
	Descend.
30.00	Bottom of ravine, 300 ft. deep,
	Course S. W.
40.05	Falls on a smooth sandstone
	ledge, I cut a cross 'x' at
	exact point for ¼ sec. cor.
	and mark ¼ S. on N. side
	of cross: and raise a mound
	of stone, 2 ft. base, 1½ ft.
	high, N. of cor.
	Pits impracticable.
58.00	Top of rocky ridge, bears N.E. and S. W.
	Descend.
75.00	Bottom of ravine, 125 ft. deep,
	Course S. W.
	Ascend.
80.10	Top of spur, projects S. W.
	The cor. of Secs. 25, 26, 35 and 36.
	Land mountainous
	Soil, rocky, 4th Rate.
	Timber, cedar and pinion.
	Mountainous land, 80.10 chs.
	Feb. 11: At this cor. I set
	off 14° 06' S. on the decl. arc:
	and at 0h. 14m. p. m. l. m. t.
	observe the sun on the
	meridian, & the resulting
	lat. is 38° 16' N.

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	N. 0°1' W. bet. Secs. 25 and 26.
	Over broken sandstone ledges
	descend through scattering
	cedar and pinion timber.
15.00	Bottom of ravine, 300 ft. deep.
	Course S. W.
36.00	Top of sandstone knoll. bears
	N. E. and S. W.
	Descend.
40.00	Falls on a smooth sandstone
	ledge. I cut a cross (x) at exact
	point for ¼ Sec. Cor. mark ¼ S.
	on W. side of cross: and
	raise a mound of stone 2 ft.
	base, 1½ ft. high. W. of cor.
	Pits impracticable.
51.00	Bottom of ravine, 100 ft. deep.
	Course S. W.
	Ascend.
68.00	Begin abrupt ascent over
	sandstone ledges bear E. and W.
72.00	Top of mesa, 600 ft. above
	Cor. of secs. 25, 26, 35 and 36.
	Enter heavy cedar and pinion
	timber. bears E. and W.
	Over nearly level land.
80.00	Set a sandstone, 24×12×6 ins.
	18 ins. in the ground, for
	Cor. of Secs. 23, 24, 25 and 26.
	marked with 2 notches on
	S. and 1 notch on E. edges:
	from which
	A cedar, 10 ins. diam., bears
	N. 12° E., 23 lks. dist., marked:
	T. 29 S. R. 23 E. S. 24. B. T.
	A cedar, 12 ins. diam., bears
	S. 33° E., 16 lks. dist., marked
	T. 29 S. R. 23 E. S. 25. B. T.
	A pinion, 6 ins. diam., bears
	S. 60° W., 2 lks. dist., marked

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	T. 29 S., R. 23 E., S. 26. B. T. A pinion, 6 ins. diam., bears N. 42° W., 30 lks. dist., marked T. 29 S. R. 23 E., S. 23. B. T. Land. mountainous. Soil. rocky. 4th Rate. Timber. Cedar and pinion. Mountainous land or heavily timbered. 80.00 chs.
	Cont. on a random line, bet. Secs. 24 and 25.
40.00	Set temp. ¼ sec cor.
40.08.	Intersect Colorado Guide Meridian, 7 lks. S. of the reestablished Cor. of Secs. 19, 24, 25 and 30. heretofore described. Thence I run S. 89° 57' W. on a true line, bet. Secs. 24 and 25. Descend, over rolling land through heavy cedar and pinion timber.
17.00	Bottom of ravine, 250 ft. deep. Course S. Leave heavy timber, bears N. and S. Enter scattering timber. Ascend over broken sandstone ledges.
28.00	Begin abrupt. ascent.
32.00	Top of mesa, 500 ft. above Cor. of secs. 19, 24, 25 and 30. edge of mesa bears N. and S. Enter heavy timber bears N. and S. Over gradually ascending

Subdivision of T. 29 S., R. 23 E. Continued.

Chains	
	land.
40.04	Set a sandstone, 18×10×4 ins: 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face:
	from which
	A pinion, 6 ins. diam., bears N. 15 W., 19 lks. dist., marked ¼ S. 24. B. T.
	A pinion 6 ins. diam., bears S. 13 lks dist., marked ¼ S. 25, B. T.
80.08	The Cor. of Secs. 23, 24, 25 and 26. Land, rolling and mountainous Soil, sandy, stony and rocky 3rd and 4th Rate. Timber, Cedar and pinion. Mountainous land or heavily timbered. 80 08 chs.
	N. 0° 1' W. bet. Secs. 23 and 24. Over rolling land, ascend through heavy cedar and pinion timber.
40.00	Set a sandstone 18×12×8 ins. 12 ins. in the ground, for ¼. Sec. Cor., marked ¼ S. on N. face:
	from which
	A pinion, 8 ins. diam., bears N. 18° E., 21 lks. dist., marked ¼ S. 24, B. T.
	A cedar, 10 ins. diam., bears N. 38° W., 28 lks. dist. marked ¼ S. 23. B. T.
55.00	Top of ridge, bears N. E. and S. W. Descend.
75.50	Bottom of draw, 30 ft. deep.

Subdivision of T. 29 S., R. 23 E. Continued

Chains

Course S. W.
Ascend.
80.00 Set a porphyry stone, 18 × 10 × 6 ins.; 12 ins. in the ground, for cor. of Secs. 13, 14, 23 and 24. marked with 3 notches on S. and 1 notch on E. edges:
from which
A cedar, 10 ins. diam., bears N. 73° E., 33 lks. dist., marked T. 29 S., R. 23 E., S. 13. B. T.
A pinion, 7 ins. diam., bears S. 12° E., 41 lks. dist., marked T. 29 S., R. 23 E., S. 24, B. T.
A pinion, 8 ins. diam., bears S. 19° W., 69 lks. dist., marked T. 29 S., R. 23 E., S. 23. B. T.
A pinion, 6 ins. diam., bears N. 71° 30' W., 56 lks. dist., marked T. 29 S., R. 23 E., S. 14, B. T.
Land, rolling.
Soil, sandy and stony, 3rd Rate.
Timber: cedar and pinion.
Heavily timbered. 80.00 Chs.
February 11, 1902.

Feb. 12: At 8 A. M., L. M. T. I set off 38° 17' N. on the lat arc: 13° 48' S. on the decl. arc: and determine a true meridian, with the solar, at the cor. of Secs. 13, 14, 23 and 24.
Thence I run
N. 89° 57' E. on a random line, bet. Secs. 13 and 24.
40.00 Set temp. ¼ sec. cor.
80.00 Intersect Colorado Guide

Subdivision of T. 29 S., R. 23 E. Continued.

Chains	
	Meridian, 7 lks. N. of the reestablished Cor. of Secs. 13, 18, 19 and 24. heretofore described. Thence I run West, on a true line, bet. Secs. 13 and 24.
	Descend, through dense underwood.
.50	Bottom of ravine, 25 ft. deep, Course N. E.
	Cross rolling land, ascend.
40.00	Set a cedar post, 3 ft. long, 3 ins. sq. with marked stone, 24 ins in the ground, for ¼ Sec. Cor., marked ¼ S. 13, on N. and 24 on S. faces:
	from which
	A bone cedar, 18 ins. diam., bears N. 85° W., 1.60 chs. dist., marked ¼ S. 13. B. T.
	No other trees within limits. dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of Cor.
55.00	Enter heavy cedar and pinion timber, bears N. and S.
58.00	Begin abrupt ascent over Sandstone ledges, bearing N. E. and S. W.
62.00	Top of sandstone ledges and abrupt ascent, 150 ft. above the Cor. of Secs. 13, 18, 19 and 24.
	Ascend over stony land.
74.00	Top of ridge, bears N. and S. Descend.
79.15	Bottom of draw, 30 ft. deep, Course S. ascend.
80.00	The Cor. of Secs. 13, 14, 23 and 24.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	Land, rolling.
	Soil, loam, stony and rocky.
	2nd, 3rd and 4th Rate.
	Timber, cedar and pinion.
	Heavily timbered or dense
	undergrowth, 80.00 chs.
	N. 0° 1' W. bet. secs. 13 and 14.
	Over stony land, ascend
	through heavy cedar and
	pinion timber.
8.00	Top of ridge, bears E. and W.
	Descend.
15.00	Top of sandstone ledges, 60 ft.
	high, bear E. and W.
	Descend abruptly.
16.20	Foot of sandstone ledges, bear
	E. and W.
	Leave rocky land.
	Descend over rolling land.
26.00	Bottom of draw, 30 ft. deep,
	Course N. E.
	Ascend.
27.00	Leave timber, bears E. and W.
	enter dense artimesa,
	Begin descent.
40.00	Bottom of draw, 25 ft. deep.
	Course N. E.
	Set a pinion post, 3 ft. long 4 ins. sq.
	with marked stone, 24 ins. in the
	ground, for ¼ sec. cor., marked
	¼ S. 14. on W. and 13 on E. faces
	from which
	A lone pinion, 12 ins. diam. bears
	N. 61° W., 99 lks. dist., marked
	¼ S. 14. B. T.
	No other trees within limits
	dig pits 18×18×12 ins. N. and S. of

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	post, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of Cor.
	Ascend
50.00	Top of ascent, bears E. and W.
	Descend
80.00	Set a cedar post, 3 ft. long, 4 ins. sq. with marked stone, 24 ins. in the ground for Cor. of Secs. 11, 12, 13 and 14, marked T. 29 S., S. 12, on N. E. R. 23 E., S. 13 on S. E. S. 14 on S. W. and S. 11 on N. W. faces: with 4 notches on S. and 1 notch on E. edges. Dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of Cor.
	Land, rolling
	Soil, loam and stony
	2nd, 3rd and 4th Rate
	Timber, cedar and pinon.
	Heavily timbered or dense undergrowth. 80.00 chs.
	East, on a random line,
	bet. Secs. 12 and 13.
40.00	Set temp. ¼ Sec. cor.
80.00	Intersect Colorado Divide Meridian at the reestablished Cor. of Secs. 7, 12, 13 and 18
	mentioned described
	Thence I run
	West, on a true line,
	bet. Secs. 12 and 13.
	over rolling land, ascend
	through dense artemesia
3.20	Wash, 8 ft. wide, 6 ft. deep
	Course N.

Subdivision of T. 29 S. R. 23 E. Continued.

Chains	
12.70	Wire fence, bears N. 20° E. and S. 20° W.
40.00	Set a cedar post, 3 ft. long, 3 ins. sq. with marked stone, 24 ins. in the ground, for ¼ sec. cor. Marked ¼ S. 12, on N. and 13 on S. faces: dig pits 18×18×12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
80.00	The Cor. of secs. 11, 12, 13 and 14. Land, rolling. Soil, loam. 2nd Rate. No timber. Dense undergrowth, 80.00 chs. Feb. 12: At this Cor. I set off 13° 46' S. on the decl. arc: and at 0h 14m p. m., l. m. t., observe the sun on the meridian, the resulting lat. is 38° 18' N.
	N. 0° 1' W. bet. secs. 11 and 12. Over rolling land, descend through dense ashmesa.
29.00	Enter heavy cedar and pinion timber, bears N. E. and S. W.
33.00	Begin abrupt descent over sandstone ledges, bearing N. W. and S. E.
37.00	Leave sandstone ledges.
40.00	Set a sandstone 18×14×4 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face: from which A pinion, 6 ins. diam., bears N. 52° E., 43 lks. dist., marked ¼ S. 12, B. T.

Subdivision of T. 29 S., R. 23 E. Continued.

Chains	
	A pinion, 6 ins. diam., bears S. 88° W., 27 lks. dist., marked 4 S. 11. B. T.
44.50	Road from La Sal post-office to Moab, bears N. W. and S. E.
47.10	Bottom of ravine, 300 ft. deep, Course N. W.
	Ascend, over rocky land.
61.00	Top of spur, projects W.
	Descend.
64.00	Bottom of ravine, 100 ft. deep, Course W.
	Ascend.
80.00	Top of spur, projects W.
	Set a sandstone 26×10×6 ins. 19 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: from which
	A pinion, 6 ins. diam., bears N. 26° E., 34 lks. dist., marked T. 29 S. R. 23 E., S. 1. B. T.
	A pinion, 6 ins. diam., bears S. 47° 45' E., 13 lks. dist., marked T. 29 S. R. 23 E., S. 12. B. T.
	A pinion, 6 ins. diam., bears S. 65° W., 67 lks. dist., marked T. 29 S., R. 23 E., S. 11. B. T.
	A pinion, 6 ins. diam., bears N. 42° W., 35 lks. dist., marked T. 29 S., R. 23 E., S. 2. B. T.
	Land, rolling and mountainous
	Soil, loam, stony and rocky. 2nd, 3rd and 4th Rate.
	Timber, cedar and pinion. Heavily timbered, dense undergrowth on mountainous land. 81.00 chs.

Subdivision of T. 29 S., R. 23 E. Continued.

Chains	
	East, on a random line, bet. Secs. 1 and 12.
40.00	Set temp. ¼ Sec. cor.
79.90	Intersect Colorado Guide Meridian, 12 lks. N. of the reëstablished Cor. of Secs. 1, 6, 7 and 12. heretofore described. Thence I run N. 89° 55' W. on a true line, bet. Secs. 1 and 12. Over level bottom land, though dense artimesa.
1.00	Wash, 15 ft. wide, 15 ft. deep, Course N. W. Ascend over rolling land.
9.00	Enter heavy Cedar and pinion timber, bears N. and S.
39.95	Set a porphyry stone, 18 x 8 x 6 ins., 12 ins. in the ground, for ¼ Sec. Cor. marked. ¼ S. on N. face: from which. A pinion, 3 ins. diam., bears S. 15 lks. dist., marked. ¼ S. 12, B. T. A cedar, 6 ins. diam., bears N. 20° E., 19 lks. dist. marked ¼ S. 1. B. T.
41.00	Top of Spur, projects N. E. Descend.
48.00	Bottom of ravine, 150 ft. deep, Course N. E. Ascend.
62.00	Top of ridge, bears N. E. and S. W. Descend, over Spur ridge, projecting W.
79.90	The cor. of Secs. 1, 2, 11 and 12. On top of Spur, projecting W. Land, rolling. Soil, sandy and stony, 3rd and 4th Rate. Timber, cedar and pinion.

Subdivision of T. 29 S. R. 23 E. Cont'd

Chains	
	Heavily timbered or dense undergrowth 79.90 chs.
	N. 0° 1' W. on a random line, bet. secs. 1 and 2.
40.00	Set temp. ¼ Sec. Cor.
79.92	Intersect N. bdy. of Tp. at the reestablished Cor. of secs. 1, 2, 35 and 36. heretofore described. Thence I run S. 0° 1' E. on a true line bet. secs. 1 and 2. Over rolling land, ascend through dense artimisa.
3.50	Enter heavy cedar and pinion timber bears E. and W. Over stony land.
15.00	Top of Spur, projects W. Descend.
16.50	Bottom of ravine, 60 ft. deep, Course N. W. Ascend.
39.00	Top of ridge, bears S. E. and N. W. Descend.
39.92	Set a sandstone 36 x 12 x 5 ins. 27 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face: from which The cedar, 6 ins. diam., bears N. 14° W., 29 lks. dist., marked ¼ S. 2, 23. T. A cedar, 5 ins. diam., bears S. 42° E., 17 lks. dist., marked ¼ S. 1, 23. T.
44.15	Bottom of ravine, 100 ft. deep, Course N. W.

Subdivision of T. 29 S., R. 23 E. Continued.

Chains	
	Ascend.
50.00	Top of spur, projects N. W.
	Descend.
55.00	Bottom of ravine, 125 ft. deep,
	Course N. W.
	Ascend.
79.92	On top of spur, projects W.
	The Cor. of Secs. 1, 2, 11 and 12.
	Land, rolling and mountainous.
	Soil, sandy and stony
	3rd and 4th Rate.
	Timber, cedar and pinion,
	dense undergrowth, heavily
	timbered on mountainous
	land. 79.92 chs.
	February 12, 1902.

Feb. 13: At 8 A. M., L. M. M. I set off 38° 15' N. on the lat. arc: 13° 28' S on the decl. arc: and determine a true meridian with the Solar, on the S. bdy. of the Tp. at the re-established Cor. of Secs. 2, 3, 34 and 35. heretofore described. Thence I run N. 0° 1' W. bet. Secs. 34 and 35. Over stony land, ascend through dense ceanothus and scattering cedar and pinion timber.

4.00	Top of ridge, bears E. and W.
	Descend.
12.00	Bottom of ravine, 75 ft. deep,
	Course S. W. ascend.
40.00	Top of a sandstone ridge.
	bears N. E. and S. W.
	Point for Cor. falls on a

Subdivision of T. 29 S. R. 23 E. Continued

Chains

smooth sandstone ledge, I cut a cross (X) at exact point for ¼ Sec. Cor. mark ¼ S. on W. side of cross and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor.
Pits impracticable.
Descend.

55.00 Bottom of ravine 150 ft. deep. Course S. W.
Begin abrupt ascent over sandstone ledges.

59.00 Top of spur, projecting S. from a mesa, 600 ft. above the cor. of Secs. 2, 3, 34 and 35.
Enter heavy cedar and pinion timber, bears E. and W.
Cross rolling stony land.

80.00 Set a sandstone 20 x 12 x 8 ins. 15 ins. in the ground, for Cor. of Secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edges, from which
A pinion, 6 ins. diam., bears N. 38° E., 19 lks. dist., marked T. 29 S., R. 23 E., S. 26. B. T.
A cedar, 10 ins. diam., bears S. 20° E., 24 lks. dist., marked T. 29 S., R. 23 E., S. 35, B. T.
A cedar, 12 ins. diam., bears S. 78° W., 32 lks. dist., marked T. 29 S., R. 23 E., S. 34, B. T.
A pinion, 8 ins. diam., bears N. 43° W., 26 lks. dist., marked T. 29 S., R. 23 E., S. 27, B. T.
Land rolling and mountainous
Soil sandy, stony and rocky
3rd and 4th Rate

Subdivision of T. 29 S., R. 23 E., Continued.

Chains	
	Timber. Cedar and pinion. Mountainous land or heavily timbered 80.00 chs.
	Cast, on a random line, bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 5 lks. S. of the Cor. of secs. 25, 26, 35 and 36.
	Thence I run
	S. 89° 58' W. on a true line, bet. secs. 26 and 35.
	Over stony land, descend through scattering cedar and pinion timber.
5.00	Enter bottom land, bears S. W. and N. E., enter dense artimesia.
10.00	Wash, 10 ft. wide, 5 ft. deep, Course S. W.
19.00	Leave bottom land, bears S. W. and N. E.
	Ascend.
30.00	Top of ridge, bears N. E. and S. W.
	Descend.
35.00	Bottom of ravine, 100 ft. deep, Course S. W.
	Ascend, over sandstone boulders.
40.05	Falls on a sandstone boulder 10 x 8 x 6 ft. above the ground. I cut a cross (x) at exact point for ¼ sec. cor., mark ¼ S. on N. side of cross: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
41.00	Begin abrupt ascent over

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	Sandstone ledges.
44.00	Top of mesa, 600 ft. above the Cor. of Secs 25, 26, 35 and 36.
	edge of mesa bears N. and S.
	Enter heavy Cedar and pinion timber, bears N. and S.
	Over rolling, stony land.
80.10	The Cor. of Secs. 26, 27, 34 and 35.
	Land mountainous.
	Soil, stony and rocky.
	3rd and 4th Rate.
	Timber, Cedar and pinion.
	Mountainous land or heavily timbered. 80.10 chs.
	February 13: At this Cor. I set off 13°26' S. on the decl. arc: and at 0h 14m p.m., l.m.t. observe the sun on the meridian, the resulting lat. is 38°16' N.
	N. 0°1' W. bet. Secs. 26 and 27
	Over stony land, through heavy Cedar and pinion timber.
40.00	Set a sandstone 20×10×10 ins. 15 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face:
	from which
	A pinion, 6 ins. diam., bears N. 18° E., 22 lks. dist., marked ¼ S. 26. B. T.
	A cedar, 12 ins. diam., bears N. 22° W., 9 lks. dist., marked ¼ S. 27., B. T.
50.00	Descend abruptly over sandstone ledges, bearing

Subdivision of T. 29 S., R. 23 E. Continued.

Chains	
	N. E. and S. W.
	Leave heavy timber, bears
	N. E. and S. W.
	Thence along the foot of
	sandstone ledges, bearing
	N. and S. descending over
	boulders, through
	scattering cedar and pinion
	timber.
72.00	Leave sandstone ledges,
	bear N. E. and S. W.
	Enter dense artimesia,
	Leave timber.
80.00	Set a sandstone 16×12×5 ins.
	11 ins. in the ground, for
	Cor. of Secs. 22, 23, 26 and 27,
	marked with 2 notches on
	S. and E. edges: dig pits
	18×18×12 ins. dis each sec.
	5½ ft. dist., and raise a
	mound of earth, 4 ft.
	base, 2 ft. high. W. of cor.
	Land, rolling and mountainous.
	Soil, sandy and rocky,
	3rd and 4th Rate.
	Timber, cedar and pinion.
	Heavily timbered, dense
	undergrowth on
	mountainous land. 80.00 Ch.

	N. 89° 58' E. on a random line,
	bet. Secs. 23 and 26.
40.00	Set temp. ¼ Sec. cor.
80.12	Intersect N. and S. line, at
	the Cor. of Secs. 23, 24, 25 and 26.
	Thence I run
	S. 89° 58' W. on a line line,
	bet. Secs. 23 and 26.

Subdivision of T. 22 S. R. 23 E. Continued

Chains	
	Descend gradually, through heavy cedar and fir timber.
12.50	Foot of sandstone ledges, 500 ft. high, bear N. and S. Leave heavy timber, bears N. and S., enter scattering timber.
	Begin abrupt descent.
16.00	Foot of abrupt descent, bears N.E. and S.W. Descend over rocky land and boulders.
40.06	Falls on a sandstone boulder 10 x 10 x 6 ft. above the ground. I cut a cross (x) at exact point for ¼ sec. cor.: mark ¼ S. on N. face: and raise a mound of stone, 2 ft. base, 12 ft. high, N. of cor. Pits impracticable.
70.00	Leave rocky land, bears N.E. and S.W. Leave timber. Enter dense artimesia
80.12	The cor. of secs. 22, 23, 26 and 27. 500 ft. below the cor. of secs. 23, 24, 25 and 26
	Land mountainous. Soil, sandy and rocky. 3rd and 4th Rate. Timber, cedar and fir. Mountainous land, heavily timbered or dense undergrowth. 80.12 chs.

N. 0°1' W. bet. secs. 22 and 23. Descend, through dense artimesia

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
10.00	Top of sandstone ledges, bear N. E. and S. W.
	Begin abrupt descent.
12.50	Bottom of ravine, 200 ft. deep. Course S. W.
	Abrupt ascent over sandstone ledges.
14.00	Top of abrupt ascent. bears N. E. and S. W.
	Enter heavy cedar and pinion timber, bears N. E. and S. W.
28.00	Begin abrupt ascent over sandstone ledges.
31.60	Top of sandstone ledges, 75 ft. high, bear N. E. and S. W.
	ascend.
33.90	Top of spur, projects S. W.
	Descend.
40.00	Set a sandstone 20 x 8 x 4 ins. 15 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face:
	from which
	A cedar, 8 ins. diam., bears N. 48° E., 33 lks. dist., marked ¼ S. 23. B. T.
	A cedar, 12 ins. diam., bears N. 42° 30' W., 16 lks. dist., marked ¼ S. 22. B. T.
43.50	Bottom of ravine, 75 ft. deep. Course S. W.
	Ascend over rocky land.
58.00	Begin abrupt ascent over sandstone ledges.
60.50	Top of abrupt ascent.
	Top of mesa, 600 ft. above the cor. of secs. 22, 23, 26 and 27, bears E. and W.
	ascend over stony land.
80.00	Set a sandstone 18 x 12 x 10 ins.

Subdivision of T. 29 S. R. 23 E. Continued

Chains

12 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. edges:
from which
A pinion, 6 ins. diam., bears N. 32° E., 18 lks. dist., marked T. 29 S., R. 23 E., S. 14. B. T.
A cedar, 12 ins diam., bears S. 9° E., 23 lks. dist., marked T. 29 S., R. 23 E., S. 23. B. T.
A pinion, 6 ins. diam., bears S. 72° W., 8 lks. dist., marked T. 29 S., R. 23 E., S. 22. B. T.
A pinion, 6 ins. diam., bears N. 15° W., 30 lks. dist., marked T. 29 S., R. 23 E., S. 15. B. T.
Land, mountainous.
Soil, stony and rocky.
3rd and 4th Rate
Timber, cedar and pinion.
Mountainous land on heavily timbered, 80.00 chs.
February 13. 1902.

Feb. 14: At 8 a. m., l. m. t. I set off 38° 17' N. on the lat. arc: 13° 08' S. on the decl. arc: and determine a true meridian with the solar, at the Cor. of Secs. 14, 15, 22 and 23.
Thence I run
N. 89° 58' E. on a random line, bet. Secs. 14 and 23.
40.00 Set temp. ¼ sec. cor.
80.12 Intersect N. and S. line, 3 lks. S. of the Cor. of Secs. 13, 14, 23 and 24:

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	Thence I run S. 89° 57' W. on a true line, bet. Secs. 14 and 23. Ascend over rocky land, through heavy Cedar and pinion timber.
6.50	Top of Sandstone ledges, 250 ft. high, bear N. W. and S. E. Begin abrupt descent. Leave heavy timber, bears N. W. and S. E. enter scattering timber.
12.00	Foot of steep descent, bears N. W. and S. E. descend.
27.00	Bottom of ravine, 300 ft. deep. Course S. Ascend over rocky land and boulders.
40.06	Set a Sandstone, 30×20×8 ins. 24 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of Cor. Pits impracticable.
43.00	Begin abrupt ascent; over Sandstone ledges, bearing, N. W. and S. E.
48.50	Top of abrupt ascent, bears N. W. and S. E. 250 ft. high. Enter heavy Cedar and pinion timber, bears N. W. and S. E. Over rolling, stony mesa, descend.
80.12	The Cor. of Secs. 14, 15, 22 and 23. Land, mountainous. Soil, stony and rocky, 3rd and 4th Rate. Timber, Cedar and pinion. Mountainous land. 80.12 chs.

Subdivision of T. 29 S., R. 23 E. Continued

Chains

N. 0° 14' W. bet. secs. 14 and 15.
Over rolling, stony land.
Ascend through heavy
Cedar and pinion timber.

40.00 Set a sandstone, 18×12×10 ins.
12 ins. in the ground, for
¼ sec. cor., marked ¼ S. on
W. face: from which,
A pinion, 8 ins. diam., bears
East, 12 lks. dist., marked
¼ S. 14. B. T.
A cedar, 12 ins. diam., bears
N. 22° W., 30 lks. dist., marked
¼ S. 15, B. T.

53.00 Top of ascent, bears E. and W.
Begin abrupt descent over
Sandstone ledges, 150 ft.
high, leave heavy timber
bears E. and W. enter scattering
timber.

65.00 Foot of steep descent, bears
E. and W. leave rocky land
and timber.
Over rolling sandy land
descend through dense
artimesia.

80.00 Set a sandstone, 16×14×4 ins.
11 ins. in the ground, for cor.
of secs. 10, 11, 14 and 15, marked
with 4 notches on S. and 2
notches on E. edges: dig pits
18, 18, 12 ins. in each sec.; 5½ ft.
dist. and raise a mound of earth,
4 ft. base, 2 ft. high, W. of cor.
Land, rolling and mountainous.
Soil, sandy, stony and rocky.
3rd and 4th Rate.
Timber, cedar and pinion.
Heavily timbered, mountainous or
dense undergrowth. 80.00 chs.

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	N. 89° 57' E. on a random line, bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 11, 12, 13 and 14. Thence I run S. 89° 59' W. on a true line, bet. secs. 11 and 14. Over rolling land, ascend through dense artimesia.
8.00	Enter heavy cedar and pinion timber, bears N. and S.
9.00	Top of ridge, bears N. and S. Descend over rocky land.
40.00	Set a sandstone 16 × 10 × 8 ins. 11 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: from which A pinion, 6 ins. diam., bears N. 36° E. 8 lks. dist., marked ¼ S. 11. 23. T. A cedar, 10 ins. diam., bears S. 14° E. 20 lks. dist. marked ¼ S. 14. 23. T.
56.00	Begin abrupt descent over sandstone ledges, 150 ft. high, bearing N. 20° E. and S. 20° W. Leave timber.
59.00	Foot of steep descent, leave rocky land. Over rolling land, descend through dense artimesia.
80.00	The cor. of secs. 10, 11, 14 and 15. Land, rolling and mountainous Soil, sandy and rocky 3rd and 4th Rate. Timber, cedar and pinion. Dense undergrowth. heavily timbered on mountainous land. 80.00 chs. February 14: At this cor I set off 13.06 W. on the dist.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	arc: and at 8h. 14m. p. m., l. m. t. observe the sun on the meridian, the resulting lat. is 38° 18' N.
	N. 0° 1' W. bet. secs. 10 and 11. Over rolling land, descend through dense aspens.
40.00	Bottom of draw, 30 ft. deep, course N. W.
	Set a cedar post, 3 ft. long 4 ins. sq., with marked stone, 24 ins. in the ground, for ¼ sec. cor. marked ¼ S. 10, on W. and 11, on E. faces: dig pits 18 × 18 × 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
68.00	Top of ridge, bears E. and W. Descend.
79.70	Road from La Sal postoffice to Moab, bears N. W. and S. E.
80.00	Set a sandstone 28 × 10 × 4 ins. 21 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on the S. and 2 notches on the E. edges: dig pits 18 × 18 × 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling. Soil, loam. 2nd Rate. No timber. Dense undergrowth. 80.00 chs.

Subdivision of T. 22 S. R. 23 E. Continued.

Chains	
	N. 89° 59' E. on a random line, bet. Secs. 2 and 11.
41.00	Set temp. ¼ Sec. cor.
79.90	Intersect - N. and S. line, 3 lks. S. of the cor. of Secs. 1, 2, 11 and 12.
	Thence down S. 89° 58' W. on a true line, bet. Secs. 2 and 11.
	Over rocky land, descend through heavy cedar and pinion timber.
34.25	Bottom of ravine, 100 ft. deep. Course N. W.
	Ascend.
36.00	Leave timber, bears N. and S. enter dense artimesa.
39.95	Set a sandstone 24 x 14 x 4 ins. 18 ins. in the ground, for ¼ Sec. cor., marked ¼ S. on N. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Begin descent.
68.75	Wash, 25 ft. wide, 25 ft. deep. Course N.
79.90	The cor. of Secs. 2, 3, 10 and 11.
	Land, rolling.
	Soil, loam and rocky 2nd and 4th Rate.
	Timber, cedar and pinion. Heavily timbered or dense undergrowth. 79.90 chs.

	N. 0° 1' W. on a random line, bet. Secs. 2 and 3.
40.00	Set temp. ¼ Sec. cor.
80.08	Intersect - N. bdy. of Tp. at the reëstablished cor.

Chains

of secs. 2, 3, 34 and 35.
heretofore described.
Thence I run
S. 0° 1' E. on a true line
bet. secs. 2 and 3.
Over broken, rocky land,
descend abruptly through
scattering cedar and
pinion timber.

40.08 Set a porphyry stone
18 × 12 × 6 ins., 12 ins in the
ground, for ¼ sec. cor.
marked ¼ S. on W. face:
and raise a mound of
stone, 2 ft. base, 1½ ft.
high, W. of cor.
Pits impracticable.

43.00 Foot of abrupt descent,
300 ft. below the cor. of
secs. 2, 3, 34 and 35, bears
E. and W. leave timber,
enter dense artimesa.
Descend.

60.50 Coyote Creek, now dry, in
bottom of ravine, 75 ft.
deep. Course W.
Ascend.

72.40 Wash, 30 ft. wide, 25 ft. deep.
Course N. W.

80.08 The cor. of secs. 2, 3, 10 and 11.
Land, rolling and
mountainous.
Soil, rocky and loam.
2nd and 4th Rate.
Timber, cedar and pinion.
Mountainous land or
dense undergrowth, 80.08 chs.
February 14, 1902.

Subdivision of T. 29 S. R. 23 E. Continued.

Chains	
	February 15: At 8 A. M. l. m. t. I set off 38° 15' N. on the lat. arc: 12° 47' S. on the decl. arc: and determine a true meridian with the Solar, on the S. bdy. of the Tp. at the reëstablished Cor. of secs. 3, 4, 33 and 34. Thence I run N. 0° 2' W. bet. secs. 33 and 34. Descend, through dense artimesa.
10.00	Wash. 50 ft. wide, 30 ft. deep, Course S. 10° W. Ascend.
40.00	Set a Sandstone, 16×10×4 ins. 11 ins. in the ground, for ¼ sec. cor. marked ¼ S. on W. face: dig pits 18×18×12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
58.00	Begin ascent over broken Sandstone ledges, bearing E. and W. enter Scattering timber.
77.00	Top of ridge, bears E. and W. Leave ledges and timber. Descend.
80.00	Set a porphyry stone, 18×14×6 ins. 12 ins. in the ground, for Cor. of secs. 27, 28, 33 and 34. marked with 1 notch on S. and 3 notches on E. edges: dig pits 18×18×12 ins. in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling.

Subdivision of T. 29 S. R. 23 E. Contin

Chains	
	Soil, loam and rocky 2nd and 4th Rate. Timber, Cedar and pinion Dense undergrowth. 80.00 chs.
	East, on a random line, bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 5 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. Descend, over stony land, through heavy cedar and pinion timber.
11.70	Top of abrupt descent over sandstone ledges, bearing N. and S. 350 ft. high. Leave heavy timber, enter scattering timber.
15.00	Foot of steep descent, bears N. and S. Descend over rocky land and boulders.
20.50	Bottom of ravine 250 ft. deep. Course S. W. Ascend.
29.50	Top of sandstone spur, projects S. W. descend.
36.00	Bottom of ravine, 150 ft. deep. Course S. W. Ascend over sandstone ledges.
40.05	Top of sandstone ridge, bears N. E. and S. W. Point for ¼ sec. cor. falls on a smooth sandstone ledge. I cut a cross (×) at exact point

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	for ¼ Sec. Cor. mark ¼ S. on N. side of cross, and raise a mound of stone, 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable. Leave sandstone ledges and timber. bear N. E. and S. W. descend over rolling land, through dense artimesa.
80.10	The Cor. of Secs. 27, 28, 33 and 34. Land, rolling and mountainous. Soil, sandy and rocky. 3rd and 4th Rate. Timber, cedar and pinion. Heavily timbered, mountainous or dense undergrowth, 80.10 chs.
	N. 0° 2' W. bet. Secs. 27 and 28. Over rolling land, descend through dense artimesa.
15.00	Bottom of draw, 30 ft. deep, Course N. ascend.
35.00	Top of ridge, bears E. and W. descend.
40.00	Set a sandstone, 18×12×5 ins. 12 ins. in the ground for ¼ Sec. cor., marked ¼ S. on W. face: dig pits 18×18×12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
56.00	Bottom of ravine, 75 ft. deep, Course S. W. ascend.
59.00	Top of sandstone spur, projects S. W. descend.
60.50	Bottom of ravine, 100 ft. deep Course S. W. ascend.

Subdivision of T. 29 S., R. 23 E. Contin

Chains	
	Ascend over rocky land.
62.50	Enter heavy cedar and pinion timber. bears N. E. and S. W.
78.60	Top of rocky ridge, bears N. E. and S. W.
	Leave heavy timber. bears N. E. and S. W. enter scattering timber. descend.
80.00	Set a porphyry stone, 18 x 8 x 5 ins., 12 ins. in the ground. for cor. of secs. 21, 22, 27 and 28 marked with 2 notches on S. and 3 notches on E. edges: from which
	A pinion, 12 ins. diam., bears S. 67° E., 25 lks. dist., marked T. 29 S., R. 23 E., S. 27. B. T.
	A pinion, 8 ins. diam., bears S. 31° W., 22 lks. dist. marked T. 29 S., R. 23 E., S. 28. 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. rolling and mountainous.
	Soil. sandy, stony and rocky. 3rd. and 4th. Rate.
	Timber. cedar and pinion.
	Mountainous land. heavily timbered or dense undergrowth. 80.00 chs.
	February 15: At this cor. I set off 12° 46' S. on the decl. arc: and at 0h. 14m. p. m. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 16' N.

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	S. 89° 58' E. on a random line, bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 22, 23, 26 and 27. Thence I run West, on a true line bet. secs. 22 and 27. Descend, through dense artimesia and scattering cedar and pinion timber.
5.70	Bottom of ravine, 50 ft. deep. Course N. W. ascend.
12.00	Top of spur, projects N. W. Descend.
32.50	Leave timber.
39.00	Bottom of ravine, 50 ft. deep. Course N. W. ascend.
40.00	Top of spur, projects N. W. Set a sandstone 24 x 10 x 4 ins. 18 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. Descend.
48.00	Bottom of ravine, 80 ft. deep Course S. W. Ascend over rocky broken land.
70.00	Top of ridge, bears N. E. and S. W. Descend.
80.00	The Cor. of secs. 21, 22, 27 and 28. Land, rolling and mountainous Soil, sandy, stony and rocky. 3rd and 4th Rate Timber, cedar and pinion. Mountainous land in dense undergrowth, 80.00 chs.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	N. 0° 2' W. bet. secs. 21 and 22. Over rocky land, descend through dense artimesia and scattering cedar and pinion timber.
8.50	Bottom of ravine, 50 ft. deep, Course S. W. ascend. Leave rocky land.
40.00	Set a sandstone 32 x 8 x 3 ins. 24 ins. in the ground, for ¼ sec. Cor., marked ¼ S. on W. face: dig pits 18 x 18 x 12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
41.00	Top of ridge, bears N. E. and S. W. Descend.
58.00	Enter heavy cedar and pinion, bears E. and W.
78.30	Bottom of ravine, 50 ft. deep, Course S. W. Ascend over sandstone ledges.
80.00	Point for cor. falls on a smooth sandstone ledge. I cut a cross (×) at exact point for cor. of secs. 15, 16, 21 and 22, marked 29 S. on S. W., 23 E. on N. W., with 3 grooves on S. and E. sides of cross: from which
	A pinion, 4 ins. diam., bears N. 41° E., 17 lks. dist., marked T. 29 S., R. 23 E., S. 15, B. T.
	A pinion, 5 ins. diam., bears S. 46° E., 36 lks. dist., marked T. 29 S., R. 23 E., S. 22, B. T.
	A pinion, 8 ins. diam., bears S. 36° W., 52 lks. dist., marked T. 29 S., R. 23 E., S. 21, B. T.
	A pinion, 11 ins. diam., bears

Subdivision of T. 29 S., R. 23 E. Continued.

Chains	
	N. 46° W., 60 lks. dist., marked T. 29 S., R. 23 E., S. 16. B. T. Land, rolling. Soil, sandy, stony and rocky. 3rd and 4th Rate. Timber, cedar and pinion: Heavily timbered or dense undergrowth, 80.00 chs. February 15, 1902.
	Feb. 16: At 8 A.M., l. m. t. I set off 38° 17' N. on the lat. arc: 12° 24' S. on the decl. arc: and determine a line meridian with the Solar, at the cor. of Secs. 15, 16, 21 and 22. Thence I run East on a random line, bet. Secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 3 lks. S. of the cor. of Secs. 14, 15, 22 and 23. Thence I run S. 89° 59' W. on a true line, bet. Secs. 15 and 22. Over stony land, descend through heavy cedar pinion timber.
5.40	Top of abrupt descent, edge of mesa, 300 ft. high, bears N. and S.
14.00	Bottom of ravine, 150 ft. deep. Course S. Ascend, abruptly over sandstone ledges.
24.00	Top of sandstone spur, projects S. W. Descend.
35.50	Bottom of ravine, 150 ft. deep.

Subdivision of T. 29 S. R. 23 E. Con't

Chains

Course S. W.
Ascend. leave stony land.
40.04 Set a sandstone 24x14x4 ins. 18 ins. in the ground, for ¼ sec. cor. marked ¼ S. on W. face: dig pits 18x18x12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
63.50 Top of ridge, bears N. and S.
Enter heavy cedar and pinion timber, bears N. and S.
Descend.
79.10 Bottom of ravine, 40 ft. deep.
Course S. W.
Ascend.
80.08 The cor. of secs. 15, 16, 21 and 22.
Land, rolling and mountainous.
Soil, sandy, stony and rocky
3rd and 4th Rate.
Timber, cedar and pinion.
Mountainous land, dense undergrowth or heavily timbered. 80.08 chains.

N. 0° 2' W. bet. secs. 15 and 16.
Over rocky land, ascend through heavy cedar and pinion timber.
9.00 Begin abrupt ascent, over sandstone ledges.
12.00 Top of mesa, 350 ft. above the cor. of secs. 15, 16, 21 and 22, bears E. & W.
Leave sandstone ledges, ascend gradually over stony land.

Subdivision of T. 29 S., R. 22 E. Continued

Chains	
40.00	Set a sandstone 18×10×6 ins. 12 ins. in the ground, for ¼ sec. Cor., marked ¼ S. on W. face: from which A pinion, 6 ins. diam., bears N. 29° E., 16 lks. dist., marked ¼ S. 15. B. T. A pinion, 6 ins. diam., bears S. 42° W., 23 lks. dist., marked ¼ S. 16. B. T.
54.00	Top of sandstone ledges, 200 ft. high, bear E. and W. Leave heavy timber, bears E. and W., begin abrupt descent.
63.50	Foot of steep descent, bears E. and W. Leave rocky land, and timber, enter dense artimesia. Gradual descent.
80.00	Set a basalt stone 15×12×6 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. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, rolling and mountainous. Soil, sandy, stony and rocky. 3rd and 4th Rate. Timber, cedar and pinion. Mountainous land, heavily timbered or dense undergrowth. 80.00 chs.
	N. 89° 59' E. on a random line, bet. secs. 10 and 15.

Subdivision of T. 29 S., R. 22 E. Continu

Chains	
40.00	Set temp. ¼ Sec. cor.
79.96	Intersect N. and S. line, 5 lks. S. of the cor. of Secs. 10, 11, 14 and 15. Thence I run S. 89° 57' W. on a true line. bet. Secs. 10 and 15. Over rolling land, descend gradually, through dense artimesia.
39.98	Set a sandstone, 16 × 8 × 5 ins. 11 ins. in the ground, for ¼ Sec. cor., marked, ¼ S. on N. face: dig pits 18 × 18 × 12 ins. E. and W. of stone, 3 ft. dist; and raise a mound of earth, 3½ ft. base, 1½ ft. high. N. of cor.
47.50	Bottom of draw, 30 ft. deep, Course N. Ascend.
79.96	The cor. of Secs. 9, 10, 15 and 16. Land, rolling. Soil, sandy loam, 3rd Rate. No timber. Dense undergrowth 79.96 chs. February 16: At this cor. I set off 12° 25' S. on the decl. arc: and at 0h. 14m. p. m., l. m. t. observe the sun on the meridian; the resulting lat. is 38° 18' N.
	N. 0° 2' W. bet. Secs. 9 and 10 Over rolling land, descend through dense artimesia:
10.50	Wash, 100 ft. wide, 40 ft. deep, Course N. E.
11.50	Wash, 100 ft. wide, 40 ft. deep, Course N. W.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
15.90	Wash, 100 ft. wide, 40 ft. deep, Course N. E.
	Leave dense artimesia, enter level flat, bears E. and W.
40.00	Set a pinion post, 3 ft. long, 4 ins. sq. with marked stone, 24 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on W. face: dig pits 18×18×12 ins., N. and S. of post, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of Cor.
46.00	Old road, bears N. E. and S. W.
60.00	Leave flat, bears N. W. and S. E. Ascend through dense Artimesia.
74.70	Top of Spur, projects S. E. Descend.
80.00	Set a sandstone 18×12×5 ins. 12 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.
35.90 / 46.10	Pits impracticable.
	Land, level and rolling.
	Soil, sandy and loam, 2nd and 3rd Rate.
	No timber
	Dense undergrowth 35.90 chs.

	N. 89° 57' E. on a random line, bet. Secs. 3 and 10.
40.00	Set temp. ¼ Sec. Cor.
80.00	Intersect N. and S. line, 7 lks. N. of the cor. of Secs. 2, 3, 10 and 11. Thence run West, on a true line,

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	bet. secs. 3 and 10.
	Cross rolling land, descend
	through dense artimesia.
40	Road from La Sal post-office
	to Moab, bears N. W. and S. E.
28.00	Wash. 40 ft. wide, 15 ft.
	deep, course N.
	Leave dense artimesia.
34.15	Old road, bears N. E. and S. W.
40.00	Set a sandstone 18 x 12 x 4
	ins. 12 ins. in the ground,
	for 1/4 sec. cor., inscribed 1/4
	S. on N. face: dig pits
	18 x 18 x 12 ins. E. and W. of stone,
	3 ft. dist. and raise a
	mound of earth, 3 1/2 ft. base,
	1 1/2 ft. high, N. of cor.
71.00	Wash. 100 ft. wide, 25 ft. deep,
	Course N.
	Ascend through dense
	Artimesia.
80.00	The cor. of secs. 3, 4, 9 and 10.
	Land, rolling.
	Soil, sandy and loam.
	2nd and 3rd Rate.
	No timber
	Dense undergrowth. 37.00 chs.

37.00 chs.

	N. 0° 2' W. on a random line,
	bet. secs. 3 and 4.
40.00	Set temp. 1/4 sec. cor.
80.12	Intersect N. bdy. of Tp.
	3 lks. W. of the ret established
	Cor. of Secs. 3, 4, 33 and 34.
	heretofore described.
	Thence I run
	S. 0° 1' E. on a true line
	bet. secs. 3 and 4.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	Descend over rocky land and boulders through scattering cedar and pinion timber.
	Bottom of ravine 500 ft. deep, course S. W.
	Ascend.
34.00	Top of spur, projects E.
	Descend.
40.12	Set a sandstone 14 x 12 x 4 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable
51.50	Bottom of ravine, 30 ft. deep. Course S. W.
	Ascend.
58.50	Top of spur, projects W.
	Descend.
59.00	Leave rocky land and timber.
	Enter dense artimesia
60.50	Road from La Sal post office to Moab, bears E. and W.
62.00	Coyote Creek, now dry, in ravine, 50 ft. deep. Course W.
	This point is 600 ft. below the Cor. of secs. 2, 3, 33 and 34 on N. bdy. of Tp.
80.12	The Cor. of Secs. 3, 4, 9 and 10.
	Land rolling and mountainous.
	Soil, sandy stony and rocky. 3rd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous or dense undergrowth. 80.12 Chs.
	February 16, 1902.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	February 17: At 8 A.M., L.M.T. I set off 38° 15' N. on the lat. arc: 12° 06' S. on the decl. arc: and determine a true meridian with the Solar, on the S. bdy. of the Tp. at the ascertained Cor. of Secs. 4, 5, 32 and 33. heretofore described
	Thence I run
	N. 0° 3' W. bet. Secs. 32 and 33.
	Over rolling land, ascend through scattering artimesa and bunch grass.
24.50	Top of spur, projects W. Descend.
35.00	Bottom of draw, 25 ft. deep. Course S.W. ascend.
40.00	Set a sandstone 18 x 14 x 3 ins. 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face: dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth. 3½ ft. base, 1½ ft. high, N. of Cor.
54.00	Top of ridge. Bears N.E. and S.W. Descend.
68.50	Ravine, 60 ft. deep. Course S.W. ascend.
80.00	Set a sandstone 12 x 12 x 6 ins. 5 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. edges: dig pits 18 x 18 x 12 ins. on each Sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high; N. of Cor.
	Land, rolling.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	Soil, sandy and loam. 2nd and 3rd Rate. No timber.
	East, on a random line, bet. secs. 28 and 33
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at the cor. of secs. 27, 28, 33 and 34. Thence I run West, on a true line, bet. secs. 28 and 33 Over rolling land, descend through scattering artimesa and bunch grass.
40.00	Set a porphyry stone 15 x 10 x 4 ins. 10 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: dig pits 18 x 18 x 12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
63.00	Bottom of ravine, 40 ft. deep. Course S. W. Ascend.
80.00	The cor. of secs. 28, 29, 32 and 33. Land, rolling. Soil, sandy and loam, 2nd and 3rd Rate. No timber
	N. 0° 3' W. bet. secs. 28 and 29. Over rolling land, ascend through scattering artimesa and bunch grass.
30.00	Top of ridge, clears E. and W.

Subdivision of T. 29 S., R. 23 E. Continu

Chains

Descend over rocky land.
Enter heavy cedar and pinion timber, bears E. and W.

40.00 Set a sandstone 18×14×4 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ S. on W. face:
from which
A pinion, 12 ins. diam., bears S. 1° W., 7 lks. dist., marked ¼ S. 29, B. T.
A pinion, 8 ins. diam., bears N. 75° E., 25 lks. dist., marked ¼ S. 28. B. T.

47.00 Bottom of ravine, 200 ft. deep. Course S. W. ascend.

56.00 Top of spur, projects S. W. Descend.

74.50 Bottom of ravine, 100 ft. deep. Course S. W.
Leave timber, bears S. W. and N. E.

80.00 Set a sandstone 18×10×6 ins. 12 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. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
Land, rolling and mountainous
Soil, sandy stony and rocky.
3rd and 4th Rate.
Timber, cedar and pinion.
Mountainous land, heavily timbered or dense undergrowth, 50.00 chs.

50.00
30.00

February 17. At this Cor. I set off 12° 04' S. on the decl. arc: and at 0h. 14m. p. m., l. m. t., observe the sun on the meridian, the resulting lat.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	is 38° 16' N.
	East, 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. N. of the cor. of Secs. 21, 22, 27 and 28. Thence I run N. 89° 59' W. on a true line, bet. Secs. 21 and 28. Over rocky land, descend through scattering cedar and pinion timber.
5.50	Bottom of ravine, 100 ft. deep. Course S. W. Ascend.
40.00	Set a sandstone 26 x 16 x 3 ins. 19 ins. in the ground, for ¼ Sec. cor., marked ¼ S. on N. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
59.00	Top of ridge, bears S. W. and N. E. Descend.
77.50	Bottom of ravine, 100 ft. deep. Course S. Ascend.
80.00	The cor. of Secs. 20, 21, 28 and 29. Land, rolling and mountainous. Soil, rocky, 4th Rate — Timber, Cedar and pinion. Mountainous land, 80.00 chs.
	N. 0° 3' W. bet. Secs. 20 and 21. Descend, through scattering

Subdivision of T. 29 S. R. 23 E. Cont

Chains

Cedar and pinion timber

5.00 Bottom of ravine, 150 ft. deep.
Course S. E.
Ascend over rolling sandstone ledges.

40.00 Point for Cor. falls on a smooth sandstone ledge
I cut a cross (x) at exact point for ¼ Sec. Cor. marked ¼ S. on W. side of cross and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of Cor.
Pits impracticable.

42.00 Begin descent

51.00 Bottom of ravine, 100 ft. deep.
Course S. W. ascend.

60.00 Top of spur projects S. W.
Descend.

70.50 Bottom of ravine, 100 ft. deep
Course S. W. ascend

74.50 Leave sandstone ledges and timber, bears E. and W.
Enter dense artimesa.

80.00 Set a sandstone 16 × 10 × 4 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: dig pits 18 × 18 × 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high. W. of Cor.
Land rolling and mountainous.
Soil, silty and rocky.
3rd & 4th Rate.
Timber, cedar and pinion.
Mountainous land or dense undergrowth, 80.00 chs.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	S. 89° 59' E. on a random line, bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, at the Cor. of secs. 15, 16, 21 and 22
	Thence I run
	N. 89° 59' W. on a true line, bet. secs. 16 and 21.
	Over broken sandstone ledges, ascend through heavy cedar and pinion timber.
22.00	Begin abrupt ascent, over sandstone ledges, bearing N. E. and S. W.
26.50	Top of sandstone ridge, 300 ft. above the cor. bears N. E. and S. W.
	Descend.
30.00	Leave sandstone ledges bear N. and S.
	Over sandy land.
40.04	Set a cedar post, 3 ft. long, 4 ins. sq. with marked stone, 24 ins. in the ground, for ¼ sec. cor., marked ¼ S. 16, on N. and 21 on S. faces: from which
	A cedar, 6 ins. diam., bears N. 5° E., 30 lks. dist., marked ¼ S. 16. B. T.
	A cedar, 14 ins. diam., bears S. 45 E., 50 lks. dist., marked ¼ S. 21, B. T.
48.70	Wash, 20 ft. wide, 8 ft. deep, Course S. W.
52.50	Wash, 8 ft. wide, 4 ft. deep, Course S.
53.00	Leave timber, bears N. and S.
	Enter dense pinion.
62.00	Ridge bears N. E. & S. W.
71.00	Bottom of ravine, 80 ft. deep,

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	Course S. W.
	Ascend.
80.08	The cor. of Secs. 16, 17, 20 and 21.
	Land, rolling and mountainous.
	Soil, Sandy and rocky
	3rd. and 4th. Rate.
	Timber, Cedar and pinion.
	Mountainous land, heavily timbered or dense undergrowth. 80.08 chs.
	February 17. 1902.

Feb. 18: At 8 A. M., L. M. L. I set off 38° 17' N. on the lat. arc: 11° 45½' S. on the decl. arc: and determine a true meridian, with the Solar, At the cor. of Secs. 16, 17, 20 and 21. Thence I run N. 0° 3' W. bet. Secs. 16 and 17. Ascend though dense altinesia.

8.00	South side of Looking Glass Rock, this rock is a prominent landmark, its length E. and W. 900 ft. breadth N. and S. 850 ft., height 250 ft. To pass this rock I offset 5.00 chs. E., Thence N. 0° 3' W. on an offset line, at
21.00	Offset 5.00 chs. W. North side of Looking Glass Rock. bears N. W. and S. E. Thence N. 0° 3' W. Enter scattering cedar and pinion timber.
25.00	Leave timber, Begin descent.

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
40.00	Set a pinion post, 3 ft. long, 4 ins. sq. with marked stone, 24 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. 17. on W. and 16. on E. faces: dig pits 18 × 18 × 12 ins. W. and S. of post. 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
60.00	Bottom of ravine, 150 ft. deep. Course W. ascend.
64.25	Wash, 25 ft. wide, 6 ft. deep, and old road. Course S. W.
65.00	Road from Moab to Monticello bears N. E. and S. W.
80.00	Set a cedar post, 4 ft. long, 5 ins. sq. with marked stone, 36 ins in the ground, for Cor. of Secs. 8, 9, 16 and 17 marked T. 29 S., S. 9. on N. E. R. 23 E., S. 16. on S. E. S. 17 on S. W. and S. 8. on N. W. faces: with 4 notches on the S. and E. edges: dig pits 18 × 18 × 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of Cor. Land, rolling. Soil, sandy and loam. Timber: cedar and pinion Dense undergrowth. 80.00 chs.
	S. 89° 59' E. on a random line, bet. Secs. 9 and 16.
40.00	Set temp. ¼ Sec. cor.
80.00	Intersect N. and S. line, 7 lks. S. of the Cor. of Secs. 9, 10, 15 and 16. Thence I run

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	S. 89° 58' W. on a true line, bet. secs. 9 and 16 over rolling land, ascend through dense artimesa.
2.00	Wash, 75 ft. wide, 35 ft. deep. Course N.
39.00	Enter scattering cedar and pinion timber.
40.00	Set a sandstone 22 × 12 × 8 ins. 16 ins. in the ground for ¼ sec. cor., marked ¼ S. on N. face: from which A pinion, 6 ins. diam., bears S. 87° W., 15 lks. dist., marked ¼ S. 16. B. T. No other lines within limits and raise a mound of stone, 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable.
41.50	Top of spur, projects N. W. Descend abruptly.
53.00	Foot of steep descent, bears N. and S., leave timber
65.00	Bottom of draw, 25 ft. deep, Course S. W. ascend.
68.00	Old road, bears N.E. and S.W.
70.00	Enter scattering cedar and pinion timber.
75.00	Top of ridge, bears N. and S. Leave timber. Descend.
78.70	Road from Moab to Monticello, bears N. and S.
80.00	The Cor. of secs. 8, 9, 16 and 17. Land, rolling. Soil sandy, stony and loam. 2nd and 3rd Rate. Timber, cedar and pinion. Dense undergrowth 80.00 chs.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	N. 0°3' W. bet. secs. 8 and 9.
	Over rolling land, ascend through scattering artimesia.
25.00	Top of ridge, bears E. and W.
	Descend.
40.00	Set a trachyte stone 20×8×5 ins. 15 ins. in the ground, for ¼ sec. cor., marked ¼ S. on the W. face: dig pits 18×18×12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high. W. of cor.
80.00	Set a trachyte stone, 18×10×5 ins. 12 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. edges: dig pits 18×18×12 ins. in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling.
	Soil, loam, 2nd Rate.
	No timber.
	February 18: At this cor. I set off 11°43' S. on the decl. arc: and at 0h. 14m. p. m., l. m. t. observe the sun on the meridian, the resulting lat. is 38°19' N.
	N. 89°58' E. on a random line, bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 3, 4, 9 and 10.
	Thence I run
	West, on a true line,

Subdivision of T. 29 S., R. 23 E. Continu

Chains	
	bet. secs. 4 and 9.
	Over rolling land, ascend through dense artimesa.
11.00	Top of low ridge, bears N.W. and S.E.
	Descend.
33.00	Wash. 5 ft. wide, 4 ft. deep, Course N.W.
	Ascend.
40.00	Set a cedar post, 3 ft. long, 4 ins. sq. with nails & tin 24 ins. in the ground, for ¼ sec. cor. marked ¼ S. 4. on N. and 9 on S. faces: dig pits 18×18×12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
48.00	Enter scattering cedar and pinion timber.
61.00	Top of ridge, bears N.W. and S.E.
	Descend.
72.00	Leave timber.
76.90	Road from Monticello to Moab bears N. and S.
	Begin ascent.
80.00	The cor. of secs. 4, 5, 8 and 9.
	Land, rolling.
	Soil, loam, 2nd Rate.
	Timber, Cedar and pinion.
	Dense undergrowth, 80.00 chs.
	N. 0° 3' W. on a random line, bet. secs. 4 and 5.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. bdy. of Tp. 3 lks. W. of the reëstablished cor.

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	of secs. 4, 5, 32 and 33 heretofore described Thence I run S. 0° 2' E. on a true line, bet. secs. 4 and 5. Over rolling land, descend through dense artimesa.
11.50	Wash, 20 ft. wide, 20 ft. deep, Course W.
17.20	Road from La Sal postoffice to Moab, bears E. and W.
39.00	Top of sandstone ledges, 30 ft. high, bears E. and W. Abrupt descent.
40.10	Set a sandstone 36 x 8 x 9 ins. 27 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
40.25	Coyote Creek, now dry, in ravine 50 ft. deep. Course N.W. ascend.
45.00	Road from Monticello to Moab, bears S. and N.W. Thence along or on road.
75.25	Leave road, bears N. and S.E.
80.10	The cor. of secs. 4, 5, 8 and 9. Land, rolling. Soil, loam and stony, 2nd & 3rd Rate. No timber. Dense undergrowth, 50.00 chs. February 18, 1902.

Feb. 19: At 8 A.M. l. m. t. I set off 38° 15' N. on the lat. arc; 11° 24' S. on the dec. arc; and determine a true

Chains	
	meridian with the Solar on the S. bdy. of the Tp. at the reëstablished Cor. of Secs. 5, 6, 31 and 32.
	Hereto for described.
	Thence I run
	N. 0° 3' W. bet. Secs. 31 and 32.
	Over level sandy land in the bottom of Hudson Wash, Canon, through dense artimesa.
20.00	Hudson Wash. 7.00 chs. wide, 15 ft. deep. Course N. W. dry at time of survey.
	There is a spring in the Wash 25.00 chs. N. W.
27.00	Begin ascent.
36.50	Ascend over sandstone ledges bearing E. and W. enter scattering cedar and pinion timber.
40.00	Falls on smooth sandstone ledge. I cut a cross (X) at exact point for ¼ sec. cor., mark ¼ S. on W. side of cross: from which
	A pinion, 4 ins. diam., bears S. 12° W. 1.60 chs. dist., marked ¼ S. 31. B. T.
	No other ties within limits. And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable
41.00	Top of sandstone spur, projects S. E. descend.
53.70	Bottom of draw, 40 ft. deep. Course S. E.
	Ascend.
73.75	Road from Monticello to Moab, bears E. and W.

Subdivision of T. 29 S., R. 23 E. Continued.

Chains	
75.00	Leave sandstone ledges; bear E. and W. leave timber.
80.00	Set a sandstone 26×8×5 ins. 19 ins. in the ground, for cor. of Secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edges: dig pits 18×18×12 ins. in each Sec. 5½ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, sandy and rocky of 3rd and 4th Rate. Timber, cedar and pinion. Dense undergrowth, 36.50 chs.
	East on a random line, bet. Secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect W. and S. line, at the Cor. of Secs. 28, 29, 32 and 33. Thence I run West, on a true line, bet. Secs. 29 and 32. Ascend through dense chaparral.
30.00	Enter scattering cedar and pinion timber.
37.00	Begin Ascent over sandstone ledges, bearing N. E. and S. W.
40.00	Falls on a smooth sandstone ledge, I cut a cross (×) at exact point for ¼ sec. cor. mark ¼ S. on W. side of cross: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
45.00	Leave sandstone ledges, bear

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	N. E. and S. W.
	Enter bottom land.
51.00	Wash, 50 ft. wide, 10 ft. deep,
	Course S. W.
64.00	Leave bottom land.
	Begin abrupt ascent, over
	sandstone ledges, bearing
	N. E. and S. W.
71.25	Top of steep ascent.
	Road from Monticello to Moab,
	bears N. and S.
	Leave sandstone ledges.
	bear N. and S. leave timber.
	Ascend.
80.00	The cor. of secs. 29, 30, 31 and 32.
	Land rolling and mountainous.
	Soil, sandy and rocky
	3rd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous land or
	dense undergrowth, 80.00 chs.

	West, on a random line,
	bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.
79.38	Intersect W. bdy. of Tp.
	3 lks. N. of the established
	Cor. of Secs. 25, 30, 31 and 36.
	heretofore described.
	Thence I run
	N. 89° 59' E. on a true line,
	bet. secs. 30 and 31.
	Descend over sandstone
	ledges.
3.50	Hudson Wash, Creek, 5 lks.
	wide, pure water 4 ins. deep,
	in a wash, 5.00 chs. wide,
	50 ft. deep, Course N. W.

Subdivision of T. 29 S., R. 23 E. Continued.

Chains	
6.00	Entr bottom land. through dense artimesa.
12.00	Begin abrupt ascent over Sandstone ledges. bearing N. and S.
14.00	Top of sandstone ledges. 100 ft. high. bear N. and S. Ascend over stony land, entr scattering cedar and pinion timber.
27.00	Top of spur. projects N. descend.
37.50	Bottom of drain. 30 ft. deep. Course N. ascend.
39.38	Set a sandstone 30×16×4 ins. 24 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: from which A cedar. 6 ins. diam., bears N. 10° E., 58 lks. dist., marked ¼ S. 30. B. T. A pinion, 10 ins. diam., bears S. 74° E., 94 lks. dist., marked ¼ S. 31. B. T.
62.00	Top of sandy ridge. bears N. E. and S. W. descend.
72.00	Leave timber.
79.38	The cor. of secs. 29, 30, 31 and 32. Land, rolling and mountainous. Soil, sandy stony and rocky. 3rd and 4th Rate. Timber, cedar and pinion. Mountainous land. or dense undergrowth, 79.38 chs.

N. 0°3' W. bet. secs. 29 and 30. Over sandy land, ascend through scattering artimesa.

Subdivision of T. 29 S., R. 23 E. Continued.

Chains	
8.00	Top of spur, projects E. Descend.
30.00	Chan. 30 ft. deep. Course E. Ascend.
40.00	Set a sandstone, 16×10×8 ins. 11 ins. in the ground, for ¼ sec. cor. marked ¼ S. on W. face: dig pits 18×18×12 ins. W. and S. of stone, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
41.00	Road from Monticello to Moab, bears N.W. and S.E.
59.00	Road from Monticello to Moab, bears N.E. and S.W.
80.00	Set a cedar post, 3 ft. long, 4 ins. sq. and 24 ins. in the ground, for cor. of Secs. 19, 20, 29 and 30, marked T. 29 S. S. 20. on N. E. R. 23 E. S. 29. on S. E., S. 30. on S. W. and S. 19 on N.W. faces: with 2 notches on S. and 5 notches on E. edges: dig pits 18×18×12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, sandy and loam. 2nd and 3rd Rate. No timber. February 19: At this cor. I set off 71°22' S. on the decl. arc: and at 0h. 14m. p. m., l. m. t., observe the sun on the meridian, the resulting lat. is 38° 16' N.
	East, on a random line, bet. Secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
80.06	Intersect N. and S. line, 3 lks. S. of the Cor. of Secs. 20, 21, 28 and 29. Thence I run S. 89° 59' W. on a line line, bet. Secs. 20 and 29. Over rolling land, ascend through scattering cedar and pinion timber, scattering artimesia and bunch grass.
20.00	Leave timber.
40.03	Set a cedar post, 3 ft. long, 4 ins. sq. with marked stone, 24 ins. in the ground, for ¼ Sec. cor., marked ¼ S. 20. on N. and 29. on S. faces: dig pits 18×18×12 ins. E. and W. of post, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
47.00	Old road, bears N. and S.
53.00	Begin gradual descent.
64.30	Road from Monticello to Moab, bears N. and S.
80.06	The cor. of Secs. 19, 20, 29 and 30. Land, rolling. Soil, loam, 2nd Rate. Timber, cedar and pinion.

	S. 89° 59' W. on a random line, bet. Secs. 19 and 30.
40.00	Set temp. ¼ Sec. cor.
79.30	Intersect W. bdy. of Tp. at the ~~sec~~ established cor. of Secs. 19, 24, 25 and 30. heretofore described. Thence I run N. 89° 59' E. on a line line, bet. Secs. 19 and 30.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	Over rolling land, ascend through scattering artimesa and bunch grass.
4.50	Enter heavy cedar and pinion timber, bears N. and S.
	Ascend over rocky land.
30.00	Top of ridge, bears N. and S.
	Leave rocky land and timber, bears N. and S.
	Descend.
39.30	Set a sandstone, 18×16×4 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: dig pits 18×18×12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high. N. of cor.
55.00	Drain, 30 ft deep, course S. W. ascend.
71.00	Road to Hatch Ranch, bears bears N. E. and S. W.
79.30	The cor. of secs. 19, 20, 29 and 30.
	Land, rolling.
	Soil, loam and rocky.
	2nd and 4th Rate.
	Timber, cedar and pinion, Heavily timbered. 25.50 chs.

25.50
53.50

	N. 0° 8' W. bet. secs. 19 and 20.
	Over rolling land, ascend through scattering artimesa and bunch grass.
4.00	Road to Hatch Ranch, bears N. E. and S. W.
34.00	Top of ridge, bears E. and W.
	Descend.
40.00	Set a sandstone, 16×12×9 ins. 11 ins. in the ground, for

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	¼ Sec. cor. marked ¼ S on W. face: And raise a mound of stone. 2 ft. base. 1½ ft high. W. of cor. Pits impracticable.
44.00	Enter heavy cedar and pinion timber. bears E. and W.
48.00	Leave timber. bears E. and W. Enter dense artimesa.
62.00	Bottom of ravine. 200 ft deep. Course W. ascend.
65.00	Begin descent.
80.00	Set a trachyte stone. 14 x 10 x 6 ins 10 ins. in the ground for Cor. of Secs. 17. 18. 19 and 20. marked with 3 notches on S. and 5 notches on E. edges: and raise a mound of stone. 2 ft base. 1½ ft. high. W. of cor. Pits impracticable. Land. rolling. Soil. loam and stony. 2nd and 3rd Rate Timber. Cedar and pinion dense undergrowth or heavily timbered. 3600 chs.
	N. 89°59' E. on a random line. bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor
80.00	Intersect W. and S. line. at the Cor. of Secs 16. 17. 20 and 21. Thence I run S 89°59' W. on a true line. bet. secs. 17 and 20. Over rolling land. ascend through dense artimesa

Subdivision of T. 29 S. R. 23 C. Continued

Chains	
23.10	Road, from Monticello to Moab, bears N. E. and S. W.
26.00	Top of low ridge, bears N. and S. Descend.
31.00	Wash. 8 ft. wide, 5 ft. deep, Course S. W.
35.00	Leave dense artimesa.
40.00	Set a sandstone, 24 x 6 x 5 ins. 18 ins in the ground, for ¼ sec. cor. marked ¼ S. on N. face: dig pits 18 x 18 x 12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high. N. of cor.
65.00	Descend abruptly over sandstone ledges. 50 ft. high, bear N. and S.
67.50	Leave ledges. bear N. and S. Enter dense artimesa.
80.00	The cor. of secs. 17, 18, 19 and 20. Land, rolling. Soil, loam and stony. 2nd and 3rd Rate. Dense undergrowth. 47.50 chs. February 19, 1902.

47.50
32.50

Feb. 20: At 8 A. M. L. M. T. I set off 38° 17' N. on the lat. arc: 11° 03' S. on the decl. arc: and determine a true meridian with the solar at the cor. of secs. 17, 18, 19 and 20. Thence I run S 89° 59' W. on a random line, bet. secs. 18 and 19.

40.00	Set temp. ¼ sec. cor.
79.26	Intersect W. bdy. of Tp. 3 lks. S. of the reestablished cor. of secs. 13, 18, 19 and 24.

Subdivision of T. 29 S. R. 25 E. Continued

Chains	
	heretofore described
	Thence I run
	East on a true line.
	bet. secs. 18 and 19.
	Over rolling land, ascend through scattering artimesa and bunch grass.
5.00	Enter scattering cedar and pinion timber.
18.00	Top of ridge. bears N. and S.
	Descend.
	Enter heavy cedar and pinion timber. bears N. and S.
34.00	Begin abrupt descent over Sandstone ledges. bearing N.E. and S.W.
37.50	Bottom of ravine, 200 ft. deep, course S.W.
	Begin abrupt ascent over Sandstone ledges.
39.26	Point for ¼ sec. cor. falls on steep sandstone slope, impossible to set.
42.11	Top of abrupt ascent. bears N.E. and S.W.
	Set a Sandstone 20×12×6 ins. 15 ins. in the ground. for witness corner to ¼ sec. cor. marked W.C. ¼ S. on N. face and raise a mound of stone. 2 ft. base. 1½ ft. high. N. of cor.
	Pits impracticable
	Ascend over Sandstone ledges.
65.00	Leave Sandstone ledges bear N. and S.
72.00	Leave timber. bears N. and S.
	Enter dense artimesa.
79.26	The cor. of secs. 17 18 19 and 20.
	Land. rolling and mountainous.

Subdivision of T. 29 S. R. 23 E. Continued

Chains	
	Soil, loam and rocky. 2nd and 4th Rate. Timber, cedar and pinion. Mountainous land, dense undergrowth or heavily timbered 60.00 Chs.
	N. 0° 3' W. bet. secs. 17 and 18. Descend through dense artimesa.
10.00	Enter heavy cedar and pinion timber, bears E. and W.
14.00	Leave heavy timber, enter scattering timber.
30.80	Bottom of ravine, 60 ft. deep. Course N. W. ascend.
38.00	Begin abrupt descent over sandstone ledges, bearing N. E. and S. W.
39.80	Mark a cross (x) on the sandstone ledge, for witness cor. to ¼ sec. cor. and mark W. C. ¼ S. on W. side of cross: from which a pinion 4 ins. diam., bears N. 87° E., 5 lks. dist. marked W. C. ¼ S. 17. B. T. No other trees within limits: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
40.00	Bottom of box ravine, 100 ft. deep. Course W. Impracticable to set ¼ sec. cor. Begin abrupt ascent over

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
	... sandstone ledges.
41.50	Top of abrupt ascent; bears N.E. and S.W.
	ascend over sandstone ledges.
57.00	Foot of abrupt ascent over sandstone ledges, bears N.W. and S.E.
60.00	Top of abrupt ascent, 150 ft. high, bears N.W. and S.E.
63.00	Leave sandstone ledges bear N.W. and S.E.
	Enter heavy timber. bears N.W. and S.E.
80.00	Set a sandstone 26 × 10 × 4 ins. 19 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. edges:
	from which
	A pinion, 8 ins. diam., bears N. 67° 30' E., 22 lks. dist., marked T. 29 S., R. 23 E., S. 8, B. T.
	A cedar, 12 ins. diam., bears S. 17° E., 1.27 chs. dist., marked T. 29 S., R. 23 E., S. 17, B. T.
	A pinion, 12 ins. diam., bears S. 61° W., 32 lks. dist., marked T. 29 S., R. 23 E., S. 18, B. T.
	A cedar, 10 ins. diam., bears N. 30° 30' W., 73 lks. dist., marked T. 29 S., R. 23 E., S. 7, B. T.
	Land rolling and mountainous. Soil loam stony and rocky. 2nd, 3rd and 4th Rate.
	Timber, cedar and pinion. Mountainous land, heavily timbered or dense undergrowth. . 80.00 chs.

Subdivision of T. 29 S. R. 23 E. Contin

Chains	
	N. 89° 59' E. on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 3 lks. N. of the cor. of 8, 9, 16 and 17. Thence I run West, on a true line, bet. secs. 8 and 17. Over rolling land, descend through dense artimesa.
13.00	Enter heavy cedar and pinion timber, bears N. and S.
40.00	Set a sandstone 32×10×5 ins. 24 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: from which A cedar, 15 ins. diam., bears S. 33° W., 19 lks. dist., marked ¼ S. 17, B. T. A cedar, 12 ins. diam., bears N. 42° 30' E., 1.39 chs. dist., marked ¼ S. 8. B. T.
51.00	Bottom of ravine, 100 ft. deep, Course S. W. Ascend over sandstone ledges.
77.00	Leave sandstone ledges, bear N. and S.
80.00	The cor. of secs. 7, 8, 17 and 18. Land, rolling. Soil, loam, sandy and rocky 2nd, 3rd and 4th Rate. Timber, cedar and pinion. Heavily timbered or dense undergrowth. 80.00 chs.
	West on a random line, bet. secs. 7 and 18.

Subdivision of T. 29 S., R. 23 E. Continued

Chains	
40.00	Set temp. ¼ Sec. cor.
79.14	Intersect W. bdy. of Tp. at the ascertained cor. of Secs. 7, 12, 13 and 18. heretofore described.
	Thence I run East on a true line, bet. Secs. 7 and 18.
	Over stony land, ascend through dense chaparral and scattering cedar and pinion timber.
11.00	Top of ridge, bears N. W. and S. E.
29.50	Bottom of ravine, 50 ft. deep, course S. ascend.
36.00	Top of spur, projects S. descend.
39.14	Set a sandstone 24×12×4 ins. 18 ins. in the ground, for ¼ Sec. cor., marked ¼ S. on N. face; dig pits 18×18×12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
41.50	Bottom of ravine, 75 ft. deep, course S.
	Ascend over rolling land.
79.14.	The cor. of Secs. 7, 8, 17 and 18.
	Land, rolling.
	Soil, sandy and stony, 3rd Rate.
	Timber, cedar and pinion.
	Dense undergrowth - 79.14 chs.
	Feb. 20: At this Cor. I set off 11°01' S. on the decl. arc; and at 0h 14m p. m., l. m. t. observe the sun on the meridian, the resulting lat. is 38°18' N.

Subdivision of T. 29 S. R. 23 E. Cont

Chains	
	N. 0° 3' W. bet. secs. 7 & 8.
	Over rolling land, ascend through heavy cedar and pinion timber.
36.00	Top of ridge, bears E. and W.
	Leave timber bears E. and W.
	Enter dense artimesa, descend.
40.00	Set a trachyte stone, 16×12×3 ins. 11 ins. in the ground for ¼ sec. cor., marked ¼ S. on W. face: dig pits 18×18×12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
45.50	Enter heavy timber, bears E. and W.
62.00	Leave timber, bears E. and W.
80.00	Set a limestone 18×12×4 ins. 12 ins. in the ground, for Cor. of secs. 5, 6, 7 and 8. marked with 5 notches on the S. and E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	Land, rolling.
	Soil, loam. 2nd Rate
	Timber, cedar and pinion.
	Heavily timbered or dense undergrowth, 80.00 chs.
	East, on a random line, bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at the Cor. of secs. 4, 5, 8 & 9.
	Thence I run

Subdivision of T. 29 S. R. 23 E. Continued.

Chains	
	West, on a line line, bet. Secs. 5 and 8. Cover rolling land, ascend through dense arbinesa.
23.00	Top of ridge, bears N. E. and S. W. Descend.
32.00	Begin ascend.
40.00	Set a trachyte stone, 22 x 12 x 5 ins. 16 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face: from which A cedar, 7 ins. diam., bears N. 39° W., 60 lks. dist., marked ¼ S. 5. B. T. A cedar, 6 ins. diam., bears S. 41° W., 38 lks. dist., marked ¼ S. 8. B. T.
40.40	Enter scattering timber.
44.00	Top of ridge, bears N. and S. Leave timber, descend.
50.00	Enter scattering timber.
53.00	Enter heavy timber, bears N. and S.
70.50	Bottom of ravine, 100 ft. deep. Course N. ascend.
75.00	Leave timber, bears N. and S.
80.00	The cor. of Secs. 5, 6, 7 and 8. Land, rolling. Soil, loam, 2nd Rate. Timber, cedar and pinion. Dense undergrowth or heavily timbered. 80.00 chs.

	West, on a random line, bet. Secs. 6 and 7.
40.00	Set temp. ¼ Sec. cor.
78.97	Intersect N. bdy. of Tp.

Subdivision of T. 29 S., R. 23 E. Con't.

Chains	
	at the reëstablished Cor. of Secs. 1, 6, 7 and 12. heretofore described. Thence I run East, on a true line, bet. Secs. 6 and 7. Over rolling land, ascend through dense arbinesa.
13.00	Top of Sandstone Spur, project N. Descend over rocky land.
38.97	Set a Sandstone, 16×12×6 ins. 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face: And raise a mound of Stone. 2 ft. base, 1½ ft. high, N. of Cor. Pits impracticable.
43.00	Bottom of ravine, 100 ft. deep Course N. W. Enter scattering timber. ascend.
58.00	Top of ridge, bears N. and S. Leave timber, descend.
78.97	The Cor. of Secs. 5, 6, 7 and 8. Land, rolling. Soil, loam and rocky. 2nd and 3rd Rate — Timber, Cedar and pinion. Dense undergrowth, 78.97 chs.
	N. 0° 3' W. on a random line, bet. Secs. 5 and 6.
40.00	Set temp. ¼ Sec. Cor.
80.18	Intersect N. bdy. of Tp. 5 lks. E. of the reëstablished Cor. of Secs. 5, 6, 31 and 32. heretofore described. Thence I run

Subdivision of T. 29 S., R. 23 E. Concluded

Chains	
	S. 0° 5' E. on a line bet. Secs. 5 and 6.
	Ave gradual ascent, through dense artimesa.
12.00	Top of ridge, bears E. and W.
	Enter scattering cedar and pinion, timber. Descend.
19.75	Top of sandstone ledges, 75 ft. high, bear N. W. and S. E.
	Begin abrupt descent.
20.50	Coyote Creek, now dry, in Ravine, 150 ft. deep. Course W. leave sandstone ledges and timber.
	Ascend
40.08	Set a sandstone 18×18×4 ins., 12 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. on N. face: dig pits, 18×18×12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of Cor.
	Descend.
40.50	Draw, 20 ft. deep. Course N. E.
	Ascend.
52.00	Enter heavy timber, bears E. and W.
58.00	Begin abrupt ascent over sandstone ledges, bearing N. W. and S. E.
67.00	Top of sandstone spur, projects N. E. leave sandstone ledges.
	Descend.
77.00	Leave timber, bears E. and W.
78.50	Draw, 30 ft. deep, Course E. ascend.
80.08	The Cor. of Secs. 5, 6, 7 and 8.
	Land, rolling and mountainous.
	Soil, sandy and rocky 3rd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous land, heavily timbered or dense undergrowth. 80.08 chs.
	February 20, 1902.

General Description of T. 29 S. R. 23 E.

This township is rough and mountainous in the eastern and southern halves, and rolling in the north western part, and the soil ranges from a rich black loam in the western part to sandstone ledges in the eastern part. Along and on top of the sandstone ledges a heavy growth of cedar and pinion timber is found, while the rest of the township is covered with a dense undergrowth of nutritious grasses making it an excellent range.
The only water in this township is a spring in the S. E. ¼ Sec. 31.
There is no mineral found in this township.
There are no settlers in this township.

Hubert D. Page
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:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

.....

.....

.....

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

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

Original offered to be bent Q.

.....

United States Deputy Surve[illegible]

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah Nov 25, 1902 189

The foregoing field notes of the survey of the Subdivisional Lines of Township 29 South Range 22 East of the Salt Lake Base and Meridian, Utah

executed by Hubert D Page under his contract No. 247, dated November 11 1901, 189 , having [illegible] critically examined, and the necessary corrections and explanations made, the said field notes, and t[illegible] surveys they describe, are hereby approved.

Edward H Anderson

United States Surveyor Gene[illegible]

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

.....

United States Surveyor Gene[illegible]

6—151

L.

4—679.

N.

BOOK A-284

FIELD NOTES

OF THE Res SURVEY OF THE

South
West and
North
boundaries
of
Township No. 29 South,
Range No. 22 East

Of the Salt Lake base and Meridian,
In the state of Utah.

AS SURVEYED BY

Hubert D. Page, United States Deputy Surveyor,

Under his Contract No. 247, dated Nov 11th, 1901

Survey commenced February 21st 1902

Survey completed " 24th, 1902

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Resurvey — S. Bdry — high 5-29-44 ✓ 50-00 ✓
" " " low —
" W — " high 6-00-00 ✓
" N — " high 5-79-00 ✓

BOOK A-284

NAMES AND DUTIES OF ASSISTANTS.

Peter Meyer	Chainman
Jay Morrison	"
Joseph Rasmussen	Mounchman
Wm Lyman	Axman
John Baker	Flagman

For preliminary affidavits see book A Tp 34 S R 24 E

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Volume

#

R0284

BOOK A-284

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman*

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

SEAL

.....

.....

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

.....

....., *Moundman*

....., *Moundman*

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

SEAL

.....

.....

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

.....

....., *Axman*

....., *Axman*

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

SEAL

.....

.....

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

....., *Flagman*

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

SEAL

.....

.....

Resurvey of the South bdy. of T. 29 S., R. 22 E.

Survey commenced
February 27. 1902.
and executed with a F. and L. E.
Gurley light-mountain transit-
No. — with solar attachments.
The horizontal limb being provided
with two opposite verniers 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 line meridian at
Salt Lake City; found correct,
and was approved by the
Surveyor General for Utah.
September 28. 1901.
I examine the adjustments
of the instrument and correct
the level and collimation errors;
then to test the solar apparatus
by comparing its indications
resulting from solar observations
made during A.M. and P.M.
hours with a line meridian
determined by observations on
Polaris: I proceed as follows:
At the re-established cor. of
Tps. 29 and 30 S., Rs. 22 and 23 E.
heretofore described, approximate
latitude 38° 15' N.
longitude 109° 28' W.
At 4 p.m., L.m.t., I set off
38° 15' N. on the latitude arc: 10° 34' S.
on the declination arc: and determine
a line meridian with the solar,
and mark the line thus determined
by a cross on a stone, firmly
set in the ground, 5 chs.
north of the instrument.

Chains

At 9h 14m p.m. L.M.T. I observe Polaris at western elongation in accordance with instructions in the Manual and mark the line thus determined by a tack driven in a wooden plug, set in the ground, 5 chains north of my station

February 21, 1902

Feb 22: At 7 A.M. L.M.T. I lay off 1°33' to the east and mark the True Meridian thus determined by cutting a small groove in the stone set last evening on which the true meridian falls 0.1 ins. east of the mark determined by the solar.

At 8 A.M. L.M.T. I set off 38°15' N. on the lat arc: 10°26' S. on the decl arc: and mark the true meridian determined with the solar, by a cross on the stone, already set 5 chs north of my station

This mark falls 0.2 ins. east of the true meridian established by the Polaris observation.

The solar apparatus by p.m. and A.M. observations defines positions for true meridians about 0°11' west and 0°05' east respectively, of the meridian established by the Polaris observation. Therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the

Resurvey of the S. bdy. of T. 29 S. R. 22 E. Continued

Chains	
	line meridian at 8 h. 30 m. a. m. is N. 15° 10' W.: the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 15° 08' E.
	I know from the resurvey of the boundaries of T. 29 S. R. 23 E. that no trace of the boundaries of T. 29 S. R. 22 E. can be be found, therefore I proceed to resurvey the S. bdy. of T. 29 S. R. 22 E. as follows:
	I begin at the reëstablished Cor. of Tps. 29 and 30 S. Rs. 22 and 23 E. heretofore described and run West.
	along the S. bdy. of Tp. bet. secs. 1 and 3 E.
	Ascend over sandstone ledges.
1.50	Leave sandstone ledges, bear N. E. and S. W.
	Cross rolling sandy bend, ascend, through scattering aspens and bunch grass.
40.00	Set a trachyte stone, 18 × 8 × 5 ins. 12 ins. in the ground, for reëstablished ¼ Sec. Cor. marked ¼ S. on N. face: dig pits 18 × 18 × 12 ins. E. and W. of stone, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of Cor. No trace of old Cor. can be found.
50.00	Enter scattering cedar and pinion timber and dense aspens.
55.00	East side of Hatch Rock. This rock is a prominent landmark, red sandstone

Resurvey of the S. bdy. of T. 29 S. R. 29 E. Con[illegible]

Chains	
	with grey sandstone capping. 18.00 chs. long E. and W. 10.00 chs. wide N. and S. 600 ft. high. to pass Hatch Rock I offset 5.00 chs. north.
80.00	Thence west on offset line at offset 5.00 chs. S. Falls on a grey sandstone spur ridge, projecting S.W. from Hatch rock. 100 ft. high 25 ft. wide.
	Set a sandstone 24x12x10. ins. 18 ins. in the ground, for reëstablished Cor. of secs. 1. 2. 35 and 36. marked with 1 notch on E. and 5 notches on W. edges. And raise a mound of stone. 2 ft. base. 1½ ft. high. W. of cor.
	Pits impracticable.
	No trace of old Cor. can be found.
	Land rolling and mountainous.
	Soil, sandy and stony.
	3rd and 4th Rate.
	Timber, Cedar and pinion.
	Mountainous land or dense undergrowth. 30.00 chs.
	West.
	along S. bdy. of Tp.
	bet. secs. 2 and 35.
	Descend over sandstone ledges.
2.50	Perpendicular precipice, 100 ft. high, bears N.E. and S.W.
	Descend.
12.00	Leave sandstone ledges bear N.E. and S.W.
	Over rolling land descend.

Resurvey of the S. bdy. of T. 29 S. R. 22 E. Continued

Chains	
	Through dense sabinosa and scattering cedar and pinion timber.
40.00	Set a sandstone 18x10x8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 S on N. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of stone. Pits impracticable. No bearing trees [illegible] found.
[illegible]	[illegible]
80.00	Set a sandstone [illegible] in the ground for cor. [illegible] marked with [illegible] Pits impracticable. [illegible]
	Timber, cedar and pinion. [illegible]
	West: along S. side of Tp. Bet. secs. 3 and 34. Ascending rolling land, [illegible] through dense sabinosa.
4.00	Enter [illegible] cedar and pinion timber, [illegible] N.E. and S.W.

Resurvey of the S. bdy. of T. 29 S. R. 22 E. Cont

Chains	
15.00	Begin ascent over sandstone ledges, bear N.W. and S.E.
22.20	Leave sandstone ledges, bear N.W. and S.E. ascend.
32.00	Top of ridge, bears N.W. and S.E. descend
34.00	Leave timber, bears N. and S. Enter dense artimesa
40.00	Set a trachyte stone 16×10×4 ins. 11 ins. in the ground, for reëstablished ¼ sec. cor. marked ¼ S. on N. face: dig pits 18×18×10 ins., E. and W. of cor. 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. No trace of old cor. can be found.
58.00	Foot of descent. Begin gradual ascent.
79.25	Enter heavy cedar and pinion timber, bears N. and S.
80.00	Set a sandstone 24×18×5 ins. 18 ins. in the ground, for reëstablished cor. of secs. 3, 4, 33 and 34 marked with 3 notches on E. and W. edges: from which
	A pinion, 12 ins. diam., bears S. 78° E., 65 lks. dist., marked T. 30 S., R. 22 E., S. 3, B. T.
	A cedar, 6 ins. diam., bears S. 41° W., 44 lks. dist., marked T. 30 S., R. 22 E., S. 4, B. T.
	A pinion, 8 ins. diam., bears N. 26° E., 20 lks. dist., marked T. 29 S., R. 22 E., S. 34, B. T.
	No other trees within limits. Dig raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. No trace of old cor. can be found. Land rolling. Soil sandy loam and rocky. 2nd, 3rd and 4th [illegible]

Remaining [illegible] Continued.

[illegible]

Discount.

[illegible]

Resurvey of the S. bdy. of T. 29 S. R. 22 E. Con.

Chains	
	on W. edges: dig pits 18×18×12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. No trace of old cor. can be found. Land, rolling. Soil sandy, loam and rocky. 2nd, 3rd and 4th Rat. Timber, cedar and pinion. Dense undergrowth. 80.00 chs.
	West. Along S. bdy. of Tp. bet. secs. 32 and 5. Over rolling land, descend through dense artimesa.
3.40	Bottom of draw, 30 ft. deep. Course N. ascend.
10.00	Enter heavy cedar and pinion timber, bears N. and S.
19.35	Top of sandstone ledges 20 ft. high, bear N. and S. Descend.
24.00	Leave timber, bears N. and S.
40.00	Set a sandstone 22×10×5 ins. 17 ins in the ground, for reestablished ¼ sec. cor. marked ¼ S. on N. face: dig pits 18×18×12 ins. E. and W. of stone. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor. No trace of old cor. can be found.
49.00	Bottom of ravine, 100 ft. deep. Course N. E. ascend.
68.00	Top of ridge, bears N. W. and S. E. Descend.
80.00	Set a sandstone 20×10×3 ins. 15 ins in the ground, for

Survey of the S. bdy. of T.24 S. R.22 E. Continued

...ns	reestablished Cor. of secs. 5, 6, 31 and 32 marked with 5 notches on E. and 1 notch on W. edges: dig pits 18×18×12 ins. in each sec. 5½ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high. W. of cor. No trace of old cor. can be found. Land, rolling. Soil, loam and stony. 2nd and 3rd Rate. Timber, cedar and pinion. Heavily timbered or dense undergrowth. 80.00 chs.
	West. along S. bdy. of Tp. bet. secs. 6 and 31. Over rolling land, descend through dense artimesa.
7.00	Begin descent over sandstone ledges, bearing W. and S. Enter heavy cedar and pinion timber, bears W. and S.
20.75	Begin abrupt descent over sandstone boulders. Leave heavy timber, bears W. and S. Enter scattering timber.
23.70	Top of sandstone ledges. 400 ft. high, bear W. and S. It is impossible to set ¼ sec. cor. therefore, on a sandstone boulder, on line, on edge of steep descent, 7×5×3 ft. above the ground, I cut a cross at exact point for witness cor. to reestablished ¼ sec. cor. mark W. C. ¼ S. on W. side of

Resurvey of the S. bdy of T. 29 S. R. 22 E. Conclu

Chains	
	Cross: from which
	A pinion, 4 ins. diam., bears
	S. 8° E., 51 lks. dist., marked
	W. C. ¼ S. 31. B. T.
	A pinion, 8 ins. diam., bears
	N. 64° 30' E., 29 lks. dist., marked
	W. C. ¼ S. 6. B. T.
40.00	Point for ¼ sec. cor. falls on
	steep slope and cannot be
	set.
	No trace of old cor. can be found.
58.00	Bottom of narrow ravine, 600
	ft. deep, course S. W.
	Begin abrupt ascent.
63.00	Top of sandstone spur,
	projects S.
	Begin abrupt descent.
70.00	Bottom of ravine, 600 ft. deep,
	course S. Begin abrupt ascent
79.44	Allowing for convergency of Meridian
	Top of sandstone spur, projects
	S. Set a sandstone 30×10×10
	ins., 23 ins. in the ground for
	reëstablished cor. of Tps.
	29 and 30 S. Rs. 21 and 22 E. marked
	with 6 notches on N. S. E. and W.
	edges, and 29 S. on N. E. 22 E. on S. E.
	30 S. on S. W. and 21 E. on N. W. faces.
	And raise a mound of stone, 2
	ft. base, 1½ ft. high S. of cor.
	Pits impracticable.
	No trace of old Tp. cor. can be found.
	Land, rolling and mountainous
	Soil, sandy and rocky.
	3rd and 4th Rate
	Timber, cedar and pinion.
	Heavily timbered. Mountainous
	land or dense
	undergrowth. 79.44 chs.
	February 22, 1902.

W

Resurvey of the W. bdy. of T. 29 S. R. 22 E.

Chains	
	February 23: At 8 A.M. l.m.t. I set off 9°58' S. on the decl. arc: 38°15' W. on the lat. arc: and determine a true meridian with the solar, at the reestablished Cor. of Tps. 29 and 30 S. Rs. 21 and 22 E.
	heretofore described.
	Thence I run
	North.
	along the W. bdy. of Tp.
	bet. secs. 31 and 36.
	Ascend abruptly on top of sandstone from, over sandstone ledges through scattering cedar and pinion timber.
35.00	Top of steep ascent.
	Leave sandstone ledges. bear N.E. and S.W.
	Ascend gradually through dense artimesia.
40.00	Set a sandstone 18×10×5 ins. 12 ins. in the ground. for reestablished ¼ sec. cor. marked ¼ S. on W. face: and raise a mound of stone 2 ft. base, 1½ ft. high. W. of cor.
	Pits impracticable.
75.00	Enter heavy timber. bears N.W. and S.E.
80.00	Top of ridge, bears N.W. and S.E.
	Set a sandstone 30×6×6 ins. 23 ins. in the ground, for reestablished Cor. of secs. 25, 30, 31 and 36. marked with 1 notch on S. and 5 notches on N. edges.
	from which
	A pinion 10 ins. diam. bears

Resurvey of the Gr. bdy. of T. 29 S. R. 22 E. Continued

Chains	N. 37° E., 16 lks. dist., marked T. 29 S., R. 22 E., S. 30, B. T.
	A pinion, 6 ins. diam., bears S. 52° E., 76 lks. dist., marked T. 29 S., R. 22 E., S. 31, B. T.
	A cedar, 12 ins. diam., bears S. 33° W., 15 lks. dist., marked T. 29 S., R. 21 E., S. 36, B. T.
	A cedar, 10 ins. diam., bears N. 85° W., 79 lks. dist., marked T. 29 S., R. 21 E., S. 25, B. T.
	No trace of old Cor. can be found. Land, rolling and mountainous. Soil, sandy and rocky. 3rd and 4th Rate.
	Timber, cedar and pinion. Mountainous land, dense undergrowth or heavily timbered, 80.00 chs.
	North. Along Gr. bdy. of Tp. Bet. Secs. 25 and 30. Cross rolling land, descend through heavy cedar and pinion timber.
25.00	Leave timber, bears E. and W. Enter dense arbutus.
31.50	Bottom of draw, 25 ft. deep. Course E. Ascend.
40.00	Set a sandstone 22 x 8 x 6 ins. 17 ins. in the ground, for reestablished ¼ Sec. Cor. marked ¼ S. 25, on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth 3 ft. base, 1½ ft.

Resurvey of the W. bdy. of T. 29 S. R. 22 E. Continued

Chains	
	high. W. of cor.
	No trace of old cor. can be found.
49.00	Top of ridge, bears E. and W.
	Descend.
70.00	Begin ascent.
80.00	Set a sandstone 22×10×4 ins., 17 ins. in the ground for reëstablished cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on W. edges; dig pits 18×18×12 ins. in each sec., 5½ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	No trace of old cor. can be found.
	Land, rolling.
	Soil, sandy and loam.
	2nd and 3rd Rate.
	Timber, cedar and pinion.
	Dense undergrowth or heavily timbered, 80.00 chs.

	North,
	along W. bdy. of T.
	bet. secs. 19 and 24.
	Cross rolling land, ascend
	through dense undergrowth.
40.00	Set a sandstone 22×10×3 ins. 16 ins. in the ground, for reëstablished ¼ sec. cor. marked ¼ S. on W. face; dig pits 18×18×12 ins. W. and S. of stone, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
	No trace of old cor. can be found.
50.00	Top of ridge, bears E. and W.
	Descend.

Resurvey of the W. bdy. of T. 29 S. R. 22 E. Cont.

Chains	
77.80	Bottom of draw, 30 ft. deep, Course E., enter scattering cedar and pinion timber.
	Ascend.
80.00	Set a sandstone 24×12×3 ins., 18 ins. in the ground, for reëstablished Cor. of Secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges: from which
	A cedar, 10 ins. diam., bears N. 36° E., 40 lks. dist., marked T. 29 S., R. 22 E., S. 18, B. T.
	A cedar, 4 ins. diam., bears S. 32° E., 17 lks. dist., marked T. 29 S., R. 22 E., S. 19, B. T.
	A cedar, 10 ins. diam., bears N. 16° W., 65 lks. dist., marked T. 29 S., R. 21 E., S. 13, B. T.
	No other trees within limits.
	And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of Cor.
	Pits impracticable
	Land, rolling.
	Soil, loam, 2nd Rate.
	Timber, cedar and pinion.
	Dense undergrowth, 80.00 chs.
	February 23: At this Cor. E set off 9° 56' S. on the decl. arc: and at 0h 14m p. m. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 17' N.
	North.
	Along N. bdy. of Tp. bet. secs. 13 and 18.
	Over rolling land, ascend.

Resurvey of the W. bdy. of T. 29 S., R. 22 E. Continued

Chains	
	through dense artimisa and scattering cedar and pinion timber.
7.00	Top of ridge, bears E. and W. descend.
8.00	Leave timber.
33.00	Begin ascent.
40.00	Set a cedar post, 3 ft. long, 4 ins. with marked stone, 24 ins. in the ground, for reëstablished ¼ Sec. Cor. marked ¼ S. 13. on W. and 18 on E. faces: dig pits 18×18×12 ins. W. and S. of post, 3 ft. dist. and raise a mound of earth 3½ ft. base, 18 ft. high, W. of Cor. No trace of old Cor. can be found.
70.00	Top of ridge, bears E. and W. descend.
80.00	Set a sandstone 24×8×4 ins., 18 ins. in the ground, for reëstablished Cor. of Secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on W. edges: dig pits 18×18×12 ins. in each Sec. 5 ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of Cor. No trace of old Cor. can be found. Land, rolling. Soil, loam, 2nd Rate. Timber, cedar and pinion. Dense undergrowth, 80.00 chs.

North.
Along W. bdy. of Tp.
bet. Secs. 7 and 12.
Over rolling land, descend through dense artimisa

Resurvey of the W. bdy. of T. 29 S. R. 22 E. Cont.

Chains	
8.00	Begin ascent.
33.00	Top of ridge, bears W. W. and S. E. Descend.
40.00	Set a sandstone 32 × 8 × 4 ins., 24 ins. in the ground, for reëstablished ¼ Sec. Cor., marked ¼ S. on W. face: dig pits 18 × 18 × 12 ins. N. and S. of stone, 3 ft. dist. and raise a mound of stone, 3½ ft. base, 1½ ft. high, W. of cor. No trace of old Cor. can be found.
45.00	Begin ascent.
80.00	Set a sandstone, 16 × 12 × 4 ins., 11 ins. in the ground for reëstablished Cor. of Secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edges: dig pits 18 × 18 × 12 ins. in each sec. 3½ ft. dist. and raise a mound of earth, 4 ft. base, 2½ ft. high, W. of cor. No trace of old Cor. can be found. Land, rolling. Soil, loam. 2nd Rate. No timber. Dense undergrowth, 80.00 chs.

North.
Along W. bdy. of Tp.
Bet. Secs. 1 and 6.
Over rolling land, ascend through dense undergrowth.

8.00	Begin ascent over sandstone ledges, bearing E. and W.
	Enter heavy cedar and pinion timber, bears E. and W.
25.00	Leave sandstone ledges and timber, bears E. and W.
40.00	Top of ridge, bears S. W. and N. E.

Resurvey of the N. bdy. of T. 29 S. R. 22 E. Continued

Chains	
	Set a sandstone 32 x 9 x 3 ins, 24 ins. in the ground for reëstablished ¼ sec. cor. marked ¼ S. on W. face: dig pits 18 x 18 x 12 ins., N. and S. of stone, 8 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. No trace of old Cor. can be found. Descend.
80.00	Set a sandstone, 32 x 8 x 4 ins. 24 ins. in the ground for reëstablished Cor. of Tps. 28 and 29 S., Rs. 21 and 22 E. marked 28 S. on N. E., 22 E. on S. E. 29 S. on S. W. and 21 E. on N. W. faces: with 6 notches on the N. S. E. and W. edges: dig pits 24 x 24 x 12 ins., on each line, N., E. and W., 4 ft., and S. of stone, 8 ft. dist., and raise a mound of earth, 5 ft. base, 2½ ft. high, S. of cor. No trace of old Cor. can be found. Land, rolling. Soil, loam, sandy and rocky. 2nd, 3rd and 4th Rate. Timber, cedar and pinion. Dense undergrowth. 80.00 chs. February 23. 1902.

Resurvey of the N. bdy. of T. 29 S. R. 22 E.

February 24: At 8 A. M., l. m. t. I set off 38° 20' N. on the lat. arc: 9° 56' S. on the decl. arc: and determine a true meridian with the solar at the Cor. of Tps. 28 and 29 S., Rs. 21 and 22 E. heretofore described.

Resurvey of the N. bdy. of T. 29 S. R. 22 E. Con

Chains

Thence I run
East, on a random line, along
the N. bdy. of T. 29 S. R. 22 E.
setting temps. ¼ sec. and sec.
cors. at intervals of 40.00 chs.
and at 479.00 chs. intersect
the N. bdy. of T. 29 S. R. 23 E. at
the reestablished Cor. of Tps.
28 and 29 S. Rs. 22 and 23 E.
heretofore described.

Thence I run
West,
along the N. bdy. of Tp.
but Secs. 1 and 36.
Ave broken, stony land.
ascend through heavy cedar
and pinion timber.

14.00 Top of spur, projects S.
descend.

20.00 Leave heavy timber; bears
N. and S., enter dense underbrush
and scattering timber.

40.00 Set a sandstone 14 x 12 x 3 ins. 10
ins. in the ground, for reestablished
¼ Sec. Cor. marked ¼ S. on N. face;
and raise a mound of stone,
2 ft. base, 1½ ft. high N. of cor.
Pits impracticable. Old Cor. cannot be found.

43.00 Bottom of ravine, 75 ft. deep,
Course S. ascend.

55.00 Top of ridge, bears N. and S.
descend.

80.00 Set a sandstone 30 x 12 x 4 ins.
23 ins. in the ground, for
reestablished Cor. of Secs.
1, 2, 35 and 36 marked with 1 notch
on E. and 5 notches on W. edges
and raise a mound of stone,
2 ft. base, 1½ ft. high W. of cor.

Resurvey of the N. bdy. of T. 29 S., R. 22 E., Continued.

Chains	
	Pits impracticable.
	No trace of old Cor. can be found.
	Land, rolling.
	Soil, stony, 3rd Rate.
	Timber, cedar and pinion.
	Dense undergrowth or heavily timbered. 80.00 chs.
	West.
	Along N. bdy. of Tp.
	bet. secs. 2 and 35.
	Over rolling, stony land descend, through dense artimesa and scattering cedar and pinion timber.
26.00	Begin abrupt descent over sandstone ledges, 100 ft. high, bear N.W. and S.E.
31.00	Coyote Creek, now dry, in a ravine, 150 ft. deep. Course N.W.
	Begin abrupt ascent over sandstone ledges.
36.00	Top of abrupt ascent.
	Leave sandstone ledges, bear N.W. and S.E.
	Ascend over stony land.
38.75	Wash, 15 ft. wide, 10 ft. deep. Course N.
40.00	Set a sandstone 24 x 14 x 3 ins., 18 ins. in the ground, for reestablished ¼ sec. Cor., marked ¼ S. on N. face:
	from which
	A cedar, 12 ins. diam., bears N. 14° W., 64 lks. dist., marked ¼ S. 35. B.T.
	A cedar, 5 ins. diam., bears S. 19° W., 63 lks. dist., marked ¼ S. 2. B.T.

Resurvey of the N. bdy. of T. 29 S. R. 22 E. Continued

Chains	
	No trace of old Cor. can be found.
42.00	Wash. 10 ft. wide, 10 ft. deep. Course W.
50.00	Enter heavy cedar and pinion timber bears N. and S.
55.00	Top of ridge, bears N. and S. Descend.
80.00	Set a sandstone 24 x 12 x 8 ins. 18 ins. in the ground for reestablished Cor. of secs. 2, 3, 34 and 35 marked with 2 notches on E. and 4 notches on W. edges: from which
	A cedar, 12 ins. diam., bears N. 66° E., 65 lks. dist. marked T. 28 S. R. 22 E., S. 35 B. T.
	A cedar, 10 ins. diam., bears S. 12° E., 1.14 chs. dist., marked T. 29 S., R. 22 E., S. 2. B. T.
	A cedar, 12 ins. diam., bears S. 17° W., 1.13 chs. dist., marked T. 29 S., R. 22 E., S. 3. B. T.
	A pinion, 10 ins. diam., bears N. 20° 30' W., 1.50 chs. dist., marked T. 28 S., R. 22 E., S. 34, B. T.
	No trace of old Cor. can be found.
	Land rolling and mountainous.
	Soil, Stony. 3rd Rate.
	Timber, Cedar and pinion.
	Mountainous land, dense undergrowth or heavily timbered. 80.00 chs.
	West.
	along N. bdy. of Tp.
	bet. secs. 31 and 34.
	Over stony land, descend through heavy cedar and pinion timber

...wey of the N. bdy of T. 24 S. R. 22 E. Continued

32.00	Top of perpendicular sandstone ledges, 600 ft. high bear N.W. and S.E. Descend, leave timber.
37.00	Hatch Creek, 6 lks. wide, pure water, 6 ins. deep, in Canon 700 ft. deep, Course N.W. Ascend over boulders.
40.00	Falls on a sandstone boulder, 10 x 8 x 6 ft. above the ground. I cut a cross at exact point for reestablished ¼ sec. cor., mark ¼ S. on N. side of cross: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. No trace of old Cor. can be found. Begin abrupt ascent.
45.00	Top of sandstone ledges, 600 ft. high, bear, N.W. and S.E. Over stony land, ascend through dense artimesa and scattering timber.
60.00	Top of spur, projects N. Descend.
80.00	Set a sandstone, 24 x 12 x 10 ins. 18 ins. in the ground, for reestablished Cor. of Secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trace of old Cor. can be found. Land, rolling and mountainous. Soil, sandy, stony and rocky. 3rd and 4th Rate. Timber, cedar and pinion. Mountainous land, heavily timbered or dense undergrowth. 8000 lbs. February 24. At this Cor. I set off

Resurvey of the N. bdy. of T. 29 S. R. 22 E. Cont.

Chains	
	9°34' S. on the decl. arc: and at 0h 14m p.m. l.m.t. observe the sun on the meridian the resulting lat. is 38°20' N.
	West.
	along the N. bdy. of Tp.
	bet. secs. 4 and 33.
	Over rocky, broken land,
	descend through dense
	artimesa and scattering
	Cedar and pinion timber.
8.00	Bottom of ravine, 150 ft. deep.
	Course N. E.
	Ascend.
26.00	Top of spur, projects N.
	Descend.
33.00	Ravine, 60 ft. deep. Course N. E.
	Ascend over rolling land.
40.00	Set a sandstone: 24×10×4 ins. 18
	ins. in the ground, for
	reëstablished ¼ sec. cor. marked
	¼ S. on N. face:
	from which
	A cedar, 10 ins. diam., bears N. 78° W. 41
	lks. dist. marked ¼ S. 33. B. T.
	No other trees within limits
	And raise a mound of stone.
	2 ft. base, 1½ ft. high. N. of cor.
	Pits impracticable.
	No trace of old cor. can be found.
68.00	Begin abrupt ascent over
	Sandstone ledges, bearing
	N. W. and S. E.
73.75	Top of Sandstone Spur, 200
	ft. high, projects S. E.
	Begin abrupt descent
78.50	Foot of steep descent

Resurvey of the N. bdy. of T. 29 S. R. 22 E. Continued

Chains	
	Leave sandstone ledges, bear N.W. and S.E.
	Over sandy land, ascend
	Enter heavy cedar and pinion timber, bears N.W. and S.E.
20.00	Set a sandstone, 22x18x7 ins 17 ins. in the ground, for reestablished Cor. of Secs. 4, 5, 32 and 33, marked with 4 notches on E. and 2 notches on W. edges:
	from which
	A cedar, 12 ins. diam., bears N. 88° E. 64 lks. dist., marked T. 28 S. R. 22 E., S. 33, B. T.
	A pinion, 12 ins. diam., bears S. 70° E. 1.25 chs. dist., marked T. 29 S., R. 22 E., S. 4, B. T.
	A cedar, 10 ins. diam., bears S. 39° W., 24 lks. dist., marked T. 29 S., R. 22 E., S. 5, B. T.
	A cedar, 24 ins. diam., bears N. 52° W., 54 lks. dist., marked T. 28 S. R. 22 E., S. 32, B. T.
	The face of old Cor. can be found.
	Land, rolling and mountainous.
	Soil, stony and rocky. 3rd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous land, or dense undergrowth, 80.00 chs.
	West.
	Along N. bdy. of Tp.
	Leave Secs. 5 and 32.
	Ascend through heavy cedar and pinion timber.
6.00	Top of ridge, bears N.E. and S.W.

Running of the N. bdy. of T. 29 S. R. 22 E. Continued.

Chains	
	Descend, over rocky land.
29.75	Bottom of ravine, 100 ft. deep.
	Course N. E.
	Ascend.
39.00	Top of spur, projects N.
	Descend.
40.00	Set a sandstone 22x7x4 ins. 17 ins. in the ground, for reëstablished ¼ sec. Cor. marked ¼ S. on N. face:
	from which
	a cedar, 21 ins. diam. bears N. 61 E. 61 lks. dist. marked ¼ S. 32. 33. T.
	a cedar, 16 ins. diam. bears S. 4 E. 6 lks. dist. marked ¼ S. 5. 33. T.
42.00	Bottom of draw, 30 ft. deep.
	Course N. E. ascend.
63.00	Top of ridge, bears N. E. 3/4 S. W.
	Leave heavy timber, bears N. E. 3/4 S. W.
	enter scattering timber.
	Leave rocky land.
	Descend.
67.50	Leave timber, enter open country.
70.00	Set a cedar post, 3 ft. long, 4 ins. sq. with marked stone, 24 ins. in the ground, for reëstablished Cor. of secs. 5, 6, 31 & 32. marked with 5 notches on the E. and 1 notch on N. edges, and with T. 28 S. S. 32. on N. E.
	R. 22 E. S. 5, on S. E.
	T. 29 S. S. 6. on S. W. and
	S. 31 on N. W. faces: dig pits 18x18x12 ins. in each sec. 5 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, W. of Cor.
	No trace of old Cor. can be found.
	Land rolling.
	Soil, loam and stony, 2nd and 3rd Rate.

of the N. bdy. of T. 29 S. R. 22 E. Concluded.

ins	Timber cedar and pinion. Heavily timbered or dense undergrowth. 80.00 chs.
	West. along N. bdy. of Tp. bet. secs. 6 and 31. Over rolling land, descent through dense artimesa.
20.00	Begin ascent
40.00	Set a cedar post, 3 ft. long 4 ins. Sq. with marked stone, 24 ins. in the ground for reestablished ¼ sec. cor. marked ¼ S. 31 on N. and 6 on S. faces: dig pits 18×18×12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. No trace of old Cor. can be found.
65.50	Top of ridge bears N. and S. W. Descend.
79.00	The cor. of Tps. 28 and 29 S., Rs. 21 and 22 E. heretofore described. Land, rolling. Soil, loam. 2nd Rate. No timber. Dense undergrowth. 79.00 chs.
	February 24, 1902
	Latitude and Departure tables on next page. For General Description see book O of subdivisions.

Boundaries of T. 29 S. R. 22 E.

Latitudes, departures and closing errors.

Line Meridianated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs.	Chs.	Chs.	Chs.	Chs.
E. bdy. T. 29 S. R. 22 E.	South	480.00		480.00		
S. bdy. T. 29 S. R. 22 E.	West	479.44				479.44
W. bdy. T. 29 S. R. 22 E.	North	480.00	480.00			
N. bdy. T. 29 S. R. 22 E.	East	479.00			479.00	
Convergency					.56	
Totals			480.00	480.00	479.56	479.44
				480.00	479.44	
Error in lat. and dep.				.00	.12	

Hubert D. Page
U.S. Deputy Surveyor

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, 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 S. and E. bdy. of T. 34 S. R. 24 E. the N. S. and W. bdy. of T. 29 S. Rs. 22 and 23 E., the S. E. and N. bdy. T. 33 S. R. 25 E. and S. bdy. of T. 31 S. R. 23 E. of the Salt Lake base and meridian, in the state of Utah, showing the respective capacities in which they acted:

Peter Meyer, *Chainman.*
Jay Morrison, *Chainman.*
Joseph Rasmussen, *Moundman.*
, *Moundman.*
Vern Lyman, *Axman.*
, *Axman.*
John Baker, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, United States Deputy Surveyor, in surveying all those parts or portions of the S. and E. bdy. of T. 34 S. R. 24 E. the N. S. and W. bdy. of T. 29 S. Rs. 22 and 23 E. the S. E. and N. bdy. of T. 33 S. R. 25 E. and S. bdy. of T. 31 S. R. 23 E., o of the Salt Lake base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Peter Meyer, *Chainman.*
Jay Morrison, *Chainman.*
Joseph Rasmussen, *Moundman.*
, *Moundman.*
Vern Lyman, *Axman.*
, *Axman.*
John Baker, *Flagman.*

Subscribed and sworn to before me this 8th day of March 1902, 189

SEAL

Hubert D. Page
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Herbert S. Page, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward Kinney United States Surveyor General for Utah, bearing date of 11th day of November 1901, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the S.E. Adj. of 1345 R.2 E. [illegible] Adj. of 1345 R.2 E. [illegible] Adj. of 1345 R.2 E. [illegible] Adj. of 1345 R.2 E. [illegible] Adj. of 1345 R.2 E. [illegible]

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

Herbert S. Page
United States Deputy

Subscribed by said Herbert S. Page and sworn to before me this 11th day of March 1902

Edward Kinney
U.S. Surveyor General
for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

[illegible]

The foregoing field notes of the survey of [illegible] Township [illegible] Range [illegible] Salt Lake Base and Meridian, Utah,

executed by Herbert S. Page under his contract No. 247, dated November 11th 1901, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward Kinney
United States Surveyor

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

United States Surveyor

1-10

4—679.

O.

BOOK A-284

FIELD NOTES

OF THE SURVEY OF THE

Subdivision
of
Township No. 29 South
Range No. 22 East

Of the Salt Lake base and Meridian,
In the state of Utah

AS SURVEYED BY

Hubert D. Page, United States Deputy Surveyor,

Under his Contract No. 247, dated November 11th, 1891

Survey commenced February 25th, 1892

Survey completed March 6th, 1892

6—151

high 52-53-153
7-23-12

59 76 65

BOOK A-284

NAMES AND DUTIES OF ASSISTANTS.

Peter Meyer, Chainman

Jay Morrison

Joseph Rasmussen Mound M

Vern Lyman Arma

John Baker Flagman

For preliminary affidavits see book B 134 S R24

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BOOK A-284

INDEX DIAGRAM.

*Township*_____, *Range*_____

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

*Meanders Page*_____

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PRELIMINARY OATHS OF ASSISTANTS.

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

_____, *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 perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of _____

_____, *Flagman.*

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

SEAL

Subdivision of T. 29 S. R. 22 E.

Chains	
	Survey commenced, February 25, 1902. and executed with a W. & L.E. Gurley light mountain transit, No. 5 with solar attachments.
	The horizontal limb being provided with two opposite verniers, reading to single minutes of arc.
	I know from recent observations taken February 21 and 22, 1902, at the cor. of T. 29 and 30 S. Rs. 22 and 23 E.,
	and recorded in book M. of this survey, the instrument to be in adjustment.
	I begin at the re-established cor. of secs. 1, 2, 35 and 36, heretofore established, on the S. bdy. of T. 29 S. R. 22 E.
	At 8 A.M. A.M.T. I set off 38° 15' N. on the lat. arc: 9° 14' S. on the decl. arc: and determine a true meridian, with the solar.
	Thence I run
	N. 0° 1' W. bet. secs. 35 and 36.
	Descend over sandstone ledges.
1.75	Perpendicular sandstone ledges, 100 ft. high, bear N.E. and S.W. Descend.
4.00	Leave sandstone ledges, bear N.E. & S.W. Enter scattering timber.
8.50	Bottom of chaw, 30 ft. deep, course W. ascend.
10.00	Top of ascent. Leave timber. Descend over rolling land, through dense artimesa.
40.00	Set a cedar post 3 ft. long, 4 ins. sq. with marked stone, 24 ins. in the ground, for ¼ sec. cor. marked ¼ S. 36. on N. and 36. on E. faces: dig pits 18x18x12 ins. N. and S. of post 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
55.00	Begin abrupt descent, over sandstone

Subdivision of T. 29 S., R. 22 E. Continued

Chains	
	ledges bearing, N. E. and S. W.
69.50	Foot of steep descent.
	Leave sandstone ledges, bear N. E. and S. W.
	Over bottom land,
73.00	Wash, 4 ft. wide, 6 ft. deep, in bottom of Hatch Wash, Canon, 200 ft. deep, Course N. E.
75.00	Leave bottom land.
	Ascend over sandstone ledges, bearing N. E. and S. W.
77.00	Top of sandstone spur, projecting E. descend.
80.00	Point for sec. cor. falls on smooth sandstone ledge: I cut a cross (x) at exact point for cor. of secs. 25, 26, 35 and 36 mark. I groove on S. and E. sides of cross: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable
	From this Cor. a log house, 15 × 30 ft. bears N. 5° E., 3.55 chs. dist. this place is known as Hatch Ranch, but is now deserted.
	A log stable, 20 × 20 ft. bears N. 85° E., 1.00 ch. dist.
	Land, rolling and mountainous.
	Soil, loam, stony and rocky, 2nd, 3rd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous land or dense undergrowth, 80.00 chs.

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

40.00	Set temp. ¼ sec. cor.
80.00	Intersect. E. bdy. of Tp.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	At the reestablished Cor. of secs. 25, 30, 31 and 36.
	heretofore described
	Thence S. run
	West, on a true line,
	bet. secs. 25 and 36.
	Ascend, over Sandstone ledges.
15.00	Leave Sandstone ledges, bear N. and S.
	Over stony land, ascend
	through scattering timber.
40.00	Set a sandstone, 22×10×8 ins., 17 ins. in the ground, for ¼ sec. cor.
	marked ¼ S. on N. face: and raise
	a mound of stone, 2 ft. base,
	1½ ft. high, N. of cor.
	Pits impracticable.
41.00	Top of spur, 400 ft. above the
	Cor. of secs. 25, 30, 31 and 36.
	projects N.
	Begin abrupt descent over
	Sandstone ledges.
72.00	Foot of steep descent, bears N. and S.
	Over bottom land, mountain.
76.00	Wash, 4 ft. wide, 3 ft. deep,
	in bottom of Hatch Hatch Canon,
	250 ft. deep, Course N.
79.00	Log stable, 20×20 ft., 5 lks. N. of line.
79.40	Leave bottom land, post
	fence, bears N. and S.
79.50	Begin ascent, over Sandstone
	ledges, bearing N. and S.
80.00	The Cor. of secs. 25, 26, 35 and 36.
	Land, mountainous.
	Soil, loam, stony and rocky.
	2nd, 3rd, and 4th Rate.
	Timber, cedar and pinion.
	Mountainous land, 80.00 chs.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	N. & W. bet. secs. 25 and 26.
	Descend over sandstone ledges.
2.25	Brush fence bears N. W. and S. E.
	Leave sandstone ledges bear
	N. W. and S. E.
	Over level bottom land.
3.50	Hatch Ranch, log house 15×30 ft.
	bears E. 20 lks. dist.
4.00	Begin abrupt ascent over
	sandstone ledges bearing N. E. & S. W.
	Enter scattering cedar and pinion timber
9.50	Top of abrupt ascent bears N. E. & S. W.
35.00	Leave timber and sandstone ledges.
	bear E. and W. enter dense artimesa.
40.00	Set a sandstone 36×10×4 ins. 27 ins.
	in the ground for ¼ sec. cor. marked
	¼ S. on W. face: dig pits 18×18×12 ins.
	N. & S. of stone, 3 ft. dist. and raise
	a mound of earth, 3½ ft. base, 1½
	ft. high, W. of cor.
55.00	Top of ridge bears E. and W.
	Descend enter scattering timber.
70.00	Begin abrupt descent over
	sandstone ledges bearing N. E. & S. W.
74.00	Bottom of ravine, 150 ft. deep.
	Course N. E. ascend.
77.00	Top of sandstone spur, projects
	N. E. descend.
80.00	Set a sandstone 18×10×8 ins. 12 ins. in
	the ground for cor. of secs. 23, 24, 25 & 26
	marked with 2 notches on S. and 1
	notch on E. edges and raise a mound
	of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	Land rolling and mountainous.
	Soil loam, stony and rocky.
	2nd, 3rd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous land or dense
	underground. 80.00 chs.

Subdivision of T. 29 S. R. 22 E. Continued.

Chains	
	February 25: At this cor. I set off 9°11' S. on the decl. arc: and at 6h 13m p.m. l.m.t. observe the sun on the meridian, the resulting lat. is 38°16' N.
	East, on a random line, bet. Secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp., at the reestablished cor. of Secs. 19, 24, 25 and 30. heretofore described.
	Thence I run
	West, on a true line, bet. Secs. 24 and 25.
	Over rolling land, descend, through scattering artimesa and bunch grass.
14.00	Bottom of ravine, 60 ft. deep. Course S.W. Ascend.
40.00	Set a sandstone 24×16×4 ins. 18 ins. in the ground, for ¼ sec. cor. marked ¼ S. on N. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
50.00	Top of ridge, bears N.W. and S.E. Descend, enter scattering timber.
62.00	Top of perpendicular sandstone ledges, 400 ft. high, bear N.W. and S.E. Descend.
75.00	Hatch Wash, creek, 5 lks. wide, pure water, 5 ins. deep, in Canon, 500 ft. deep. Course N.W. Ascend abruptly over sandstone ledges, bearing N.W. and S.E.
80.00	Top of abrupt ascent, 400 ft. above bottom of Canon.
	The cor. of Secs. 23, 24, 25 and 26.
	Land rolling and mountainous.

Subdivision of T. 29 S. R. 22 E. Cont.

Chains	
	Soil, loam, stony and rocky, 2nd 3rd and 4th Rate. Timber, Cedar and pinion. Mountainous land. 18.00 chs.
	N. 0° 1' W. bet. secs. 23 and 24. Descend abruptly over sandstone ledges, bearing N. W. and S. E.
7.00	Hatch Wash. Creek. 5 lks. wide. 5 ins. deep. in Canon. 500 ft. deep. Course N. W. Ascend abruptly.
15.00	Top of rocky spur, 300 ft. above the bottom of Canon. bears W. Descend abruptly.
20.00	Hatch Wash. Creek. 5 lks. wide, pure water, 5 ins. deep, in Canon 500 ft. deep, Course N. E. Ascend abruptly.
26.00	Top of rocky spur, projects E. Descend abruptly.
32.00	Hatch Wash. Creek. 6 lks. wide. 6 ins. deep in Canon. 550 ft. deep. Course N. W. Ascend abruptly.
35.00	Top of abrupt ascent. bears N. W. and S. E. Ascend gradually, through scattering cedar and pinion timber.
40.00	Set a sandstone 18×8×4 ins. 12 ins. in the ground, for ¼ sec. cor. marked ¼ S. on W. face. from which A cedar, 22 ins. diam. bears S. 88° E. 96 lks. dist. marked ¼ S. 24. B. T. A cedar, 10 ins. diam. bears S. 43° W. 33 lks. dist. marked ¼ S. 23. B. T.
45.25	Begin abrupt descent over

Subdivision of T. 29 S., R. 22 E. Continued.

Chains	
	Sandstone ledges.
54.00	Hatch Wash, Creek, 6 lks. wide. 6 ins. deep in Canon 550 ft. deep Course E.
	Ascend abruptly.
63.00	Top of rocky spur, projects E.
	Descend abruptly.
70.00	Hatch Wash, Creek, 6 lks. wide. 6 ins. deep, in bottom of Canon 550 ft. deep, Course W.
	Ascend abruptly.
77.00	Top of abrupt ascent. bears E. and W.
	Ascend over sandy and rocky land.
80.00	Set a Sandstone 24 x 14 x 5 ins., 10 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 pinion, 10 ins. diam., bears N. 70° E., 89 lks. dist., marked T. 29 S., R. 22 E., S. 13. B. T.
	A cedar, 7 ins. diam., bears S. 60° E., 1.23 chs. dist., marked T. 29 S., R. 22 E., S. 24. B. T.
	A cedar, 7 ins. diam. bears S. 4° W., 63 lks. dist., marked T. 29 S., R. 22 E., S. 23. B. T.
	A cedar, 10 ins. diam., bears N. 78° W., 71 lks. dist., marked. T. 29 S., R. 22 E., S. 14. B. T.
	Land, mountainous.
	Soil, rocky 4th Rate.
	Timber, Cedar and pinion
	Mountainous land, 70.00 chs.
	February 25, 1907.

Subdivision of T. 29 S. R. 22 E. Contin.

Chains	
	February 26: At 8 A.M. l.m.t. I set off 38°17' N. on the lat. arc. 8°52' S. on the decl. arc: and determine a true meridian with the solar, at the cor. of secs. 13, 14, 23 and 24.
	Thence I run
	East on a random line,
	bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. at the reëstablished cor. of secs. 13, 18, 19 and 24. heretofore described.
	Thence I run
	West, on a true line,
	bet. secs. 13 and 24.
	Over rolling land, descend through scattering artimesa and bunch grass.
12.50	Bottom of dran, 30 ft. deep. Course S.
	Ascend, enter scattering timber
40.00	Set a sandstone, 28 × 18 × 5 ins., 21 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: dig pits 18 × 18 × 12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
57.00	Top of low ridge, bears N. and S.
	Descend.
62.00	Descend over sandstone ledges, bear, N. and S.
71.00	Bottom of ravine, 80 ft. deep.
	Course S. ascend.
	Over stony land.
80.00	The cor. of secs. 13, 14, 23 and 24.
	Land, rolling.
	Soil, loam, sandy and stony.
	2nd and 3rd Rate.
	Timber, cedar and pinion.

Subdivision of T. 19 S. R. 20 E. Continued.

Chains	
	T. 0 1 N. bet. secs. 13 & 14.
	Over stony land, ascend, through scattering cedar & pinion timber.
1.25	Begin ascent over sandstone ledges, bearing E. & W.
36.00	Leave sandstone ledges, bear E. & W.
	Leave timber, enter dense [illegible].
40.00	Set a sandstone, 18 × 12 × 3 ins. 21 ins. in the ground for ¼ sec. cor. marked ¼ S. on W. face; dig pits 18 × 18 × 12 ins. W. & S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
41.00	Top of ridge, bears W. E. & S. W.
	Descend.
68.00	Bottom of ravine, 20 ft. deep, course S. W.
	Ascend over rolling land.
80.00	Set a sandstone, 20 × 10 × 4 ins. 15 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. edges; dig pits 18 × 18 × 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth, 2 ft. base, 2 ft. high, W. of cor.
	Land, rolling.
	Soil, loam, sandy & stony.
	2nd, 3rd & 4th Rat.
	Timber, cedar & pinion.
	Dense undergrowth. 44.00 Ch.
	East on a random line.
	bet. secs. 13 & 18.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. 3 Hks. N. of the reestablished cor. of secs. 7, 12, 13 & 18.

Subdivision of T. 29 S. R. 22 E. C.

Chains	
	Thence I run
	N. 79° 59' W. on a true line
	bet. secs. 12 and 13.
	Over rolling land descend
	through heavy cedar and pinion
	timber.
22.00	Leave timber, bears N.E. and S.W.
	Enter dense artimesa.
40.00	Set a sandstone 24×12×4 ins., 18 ins. in
	the ground for ¼ sec. cor. marked ¼ S.
	on N. face: dig pits, 18×18×12 ins.
	E. and W. of stone, 3 ft. dist. and
	raise a mound of earth, 3½ ft.
	base, 1½ ft. high, N. of cor.
50.40	Bottom of draw, 30 ft. deep.
	Course S.W. ascend.
80.00	The cor. of secs. 11, 12, 13 and 14.
	Land, rolling.
	Soil, loam. 2nd Rate.
	Timber, cedar and pinion.
	Heavily timbered or dense
	undergrowth. 80.00 chs.
	February 26: At this cor. I set
	off 8° 49' S. on the decl. arc
	and at 0h. 15m. p.m. l.m.t.
	observe the sun on the
	meridian, the resulting lat.
	is 38° 18' N.
	N. 0° 1' W. bet. secs. 11 and 12.
	Over rolling land, ascend through
	scattering artimesa and bunch grass.
25.00	Top of ridge, bears N.E. and S.W.
	Descend.
37.75	Bottom of draw, 30 ft. deep, course
	S.W. ascend.
40.00	Set a sandstone 14×12×3 ins., 10
	ins. in the ground for ¼ sec. cor.

Subdivision of T. 29 S., R. 22 E. Continued.

Chains	
	marked ¼ S. on on W. faces: dig pits 18×18×12 ins. N. and S. of Stone, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
70.00	Top of ridge, bears E. and W. Descend.
80.00	Set a sandstone 20×8×4 ins., 15 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on S. and 1 notch on E. edges: dig pits 18×18×12 ins. in each sec., 5½ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
	Land, rolling.
	Soil, loam. 2nd Rate.
	No timber.
	S. 89° 59' E. on a random line, bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. 3 lks. N. of the reëstablished cor. of secs. 1, 6, 7 and 12.
	heretofore described.
	Thence S. pur.
	N. 89° 58' W. on a line line, bet. secs. 1 and 12.
	Over rolling land, descend through dense chaparral.
40.00	Set a sandstone 18×10×5 ins. 12 ins. in the ground, for ¼ sec. cor. marked ¼ S. on N. face: dig pits 18×18×12 ins. E. and W. of Stone, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

Subdivision of T. 29 S., R. 22 E. Continued.

Chains	
80.00	The cor. of secs. 1, 2, 11 and 12.
	Land, rolling.
	Soil, loam, 2nd Rate.
	No timber.
	Dense undergrowth. 80.00 chs.
	N. 0° 1' W., on a random line,
	bet. secs. 1 and 2.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. bdy. of Tp. at the unestablished
	Cor. of secs. 1, 2, 35 and 36.
	Thence I run
	S. 0° 1' E. on a true line,
	bet. secs. 1 and 2.
	Over stony land, descend
	through dense chaparral and
	scattering cedar and pinion timber.
15.00	Coyote Creek, narrow dry, in bottom
	of ravine, 1.25 ft. deep. Course
	N. ascend.
40.00	Set A. Sandstone 24 x 12 x 4 ins., 18 ins. in the
	ground, for ¼ sec. cor., marked ¼ S. on
	N. face; and erise a mound of stone,
	2 ft. base, 12 ft. high. N. of cor.
	Pits impracticable.
58.00	Top of ridge, views N. W. and S. E.
	Leave stony land, descend.
64.00	Leave timber.
72.00	Begin ascent.
80.00	The cor. of secs. 1, 2, 11 and 12.
	Land, rolling and mountainous.
	Soil, loam and stony,
	2nd and 3rd Rate.
	Timber, cedar and pinion.
	Mountainous land, or dense
	undergrowth. 80.00 chs.
	February 26, 1902.

Subdivision of T. 29 S. R. 22 E. Continued.

Chains	
	February 27: At 8 A.M., L.M.T., I set off 38°15' N. on the lat. arc: 8°28' S. on the decl. arc: and determine a true meridian with the solar, on the S. bdy. of the Tp. at the reestablished cor. of Secs. 2, 3, 34 and 35.
	Heretofore described.
	Thence I run
	N. 0°1' W. bet. Secs. 34 and 35.
	Descend, through dense artimesa.
1.50	Bottom of draw, 30 ft. deep, Course E. ascend.
3.50	Enter heavy cedar and pinion timber, bears N.E. and S.W.
7.50	Leave timber, bears E. and W.
24.00	Top of ridge, bears E. and W. Descend.
33.50	Bottom of ravine, 80 ft. deep, Course E. Enter heavy timber, bears E. and W. ascend.
40.00	Set a sandstone, 20×16×3 ins., 15 ins. in the ground, for ¼ Sec. Cor. marked ¼ S. on W. face: from which
	A pinion, 12 ins. diam., bears S. 58° E., 39 lks. dist., marked ¼ S. 35, B. T.
	A cedar, 24 ins. diam., bears N. 80° W., 76 lks. dist., marked ¼ S. 34, B. T.
51.00	Leave heavy timber, bears E. and W. Enter scattering timber.
55.00	Top of ridge, bears E. and W. Descend.
79.70	Bottom of draw, 30 ft. deep, Course N. E. ascend.
80.00	Set a sandstone, 16×16×5 ins., 11 ins. in the ground, for cor. of Secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edges.

Subdivision, of T. 29 S. R. 22 E. Cor. 1

Chains	
	from which
	A cedar, 10 ins. diam. bears
	N. 85° E., 76 lks. dist. marked
	T. 29 S., R. 22 E., S. 26. B. T.
	A cedar, 12 ins. diam. bears
	S. 69° W., 1.86 chs. dist. marked
	T. 29 S., R. 22 E., S. 34. B. T.
	A cedar, 5 ins. diam. bears
	N. 33° W., 38 lks. dist. marked
	T. 29 S., R. 22 E., S. 27. 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 rolling.
	Soil, loam, 2nd Rate.
	Timber, cedar and pinion.
	Heavily timbered or dense
	undergrowth. 80.00 chs.
	East, on a random line.
	bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at the
	Cor. of secs. 25, 26, 35 and 36.
	Thence I run
	West, on a true line,
	bet. secs. 26 and 35.
	Ascend over sandstone ledges.
8.00	Leave sandstone ledges, bear
	N. W. and S. E.
	Over rolling land, ascend.
40.00	Set a sandstone 16×14×4 ins., 11 ins. in the
	ground, for ¼ sec. cor. marked ¼ S. on
	N. face; dig pits, 18×18×12 ins. E. and W.
	of stone, 3 ft. dist., and raise a
	mound of earth, 3½ ft. base, 1½
	ft. high, N. of cor.

Subdivision of T. 29 S. R. 22 E. Continued.

Chains	
72.25	Begin descent.
	Enter scattering timber.
79.25	Bottom of ditch, 30 ft. deep.
	Course N. E. ascend.
80.00	The cor. of Secs. 26, 27, 34 and 35.
	Land, rolling.
	Soil, loam and stony.
	Timber, cedar and pinion.
	N. 0° 1' W. bet. Secs. 26 and 27.
	Cross rolling land, ascend through scattering cedar and pinion timber.
37.00	Top of ridge, bears E. and W.
	Descend.
	Enter heavy timber, bears E. and W.
40.00	Set a sandstone 20 x 18 x 5 ins. 15 ins. in the ground, for ¼ Sec. Cor. marked ¼ S. on W. face: from which
	A pinion, 10 ins. diam. bears S. 41° E. 27 lks. dist. marked ¼ S. 26, B. T.
	A pinion, 12 ins. diam. bears N. 34° W. 40 lks. dist. marked ¼ S. 27, B. T.
70.00	Descend over sandstone ledges, bear N. E. and S. W.
76.00	Wash, 25 ft. wide, 15 ft. deep.
	Course N. E.
	Leave heavy timber and sandstone ledges, bear N. E. and S. W.
	Descend through scattering timber.
80.00	Set a sandstone 28 x 10 x 2 ins. 21 ins. in the ground, for Cor. of Secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edges: from which

Subdivision of T. 29 S. R. 22 E.

Chains	
	A cedar, 14 ins. diam., bears S. 70° E., 65 lks. dist. marked T. 29 S. R. 22 E. S. 26. 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, rolling
	Soil, loam and stony
	2nd and 3rd Rate
	Timber, cedar and pinion
	Heavily timbered, 42.00 chs.
	February 27: At this Cor. I set off 8° 27' S. on the decl. arc and at 0h. 13m. p. m., l. m. t. observe the sun on the meridian, the resulting lat. is 38° 16' N.
	East on a random line, bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at the Cor. of secs. 23, 24, 25 and 26.
	Thence I run
	West, on a true line, bet. secs. 23 and 26.
	Over broken sandstone ledges, ascend abruptly.
5.50	Top of steep ascent, bears N. W. and S. E. 150 ft. above the sec. Cor., leave sandstone ledges, bear N. W. and S. E.
	Over rolling land, ascend through dense artimesia and scattering cedar and pinion timber.
40.00	Top of spur projects N. Set a sandstone 18 x 1 x "

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	ins. in the ground, for ¼ sec. Cor. marked ¼ S. on N. face: from which A cedar, 6 ins. diam., bears S. 26° W., 92 lks. dist. marked ¼ S. 26. B. T. No other trees within limits. And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. Descend.
43.00	Bottom of draw 40 ft. deep, Course N. E., ascend.
64.00	Top of ridge, bears N. and S. descend.
73.00	Begin abrupt descent over Sandstone ledges, bearing N. E. and S. W.
78.00	Foot of abrupt descent. Leave sandstone ledges, bear N. E. and S. W. Descend.
79.00	Wash, 25 ft. wide, 20 ft. deep, Course N.
80.00	The Cor. of secs. 22, 23, 26 and 27. Land, rolling and mountainous. Soil, sandy, stony and rocky, Timber, 3rd and 4th Rate. Cedar and pinion. Mountainous land or dense undergrowth, 80.00 Chs.
	N. 0° 1' W. bet. secs. 22 and 23. Descend, through scattering artimesa and cedar and pinion timber.
1.40	Little Water Creek, now dry, wash, 20 ft. deep, 50 ft. wide, in bottom of ravine, 200 ft. deep.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	Course N. E. ascend
18.00	Leave timber
40.00	Set a cedar post 3 ft. long, 4 ins. sq. with marked stone, 24 ins. in the ground for ¼ sec. cor., marked ¼ S. 22 on W. and 23 on E. faces. Dig pits 18 x 18 x 12 ins., N. and S. of post 8 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high. W. of cor.
63.00	Top of sandstone ledges, bear E. and W. Enter scattering timber. Begin abrupt descent
68.00	Three Mile Creek 3 lks. wide, pure water, 4 ins. deep in bottom of ravine, 250 ft. deep. Course E. Begin abrupt ascent over sandstone ledges.
74.00	Top of steep ascent. Leave sandstone ledges, bear E. and W. Enter heavy timber, bears E. and W. ascend
80.00	Set a sandstone 24 x 16 x 4 ins., 18 ins. in the ground for cor. of Secs. 14, 15, 22 and 23, marked with 3 notches on the S. and 2 notches on E. edges; from which
	A cedar, 7 ins. diam., bears N. 42° E. 63 lks. dist., marked T. 29 S. R. 22 E. S. 14, B. T.
	A pinon, 8 ins. diam., bears S. 27° E. 16 lks. dist., marked T. 29 S. R. 22 E. S. 23, B. T.
	A pinon, 12 ins. diam., bears S. 75° W. 1.45 chs. dist., marked T. 29 S. R. 22 E. S. 22, B. T.
	A cedar, 6 ins. diam., bears N. 71° W. 77 lks. dist., marked

35.00
45.00
=

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	T. 29 S. R. 22 E. S. 15. B. T.
	Land, rolling and mountainous.
	Soil, loam, stony and rocky.
	2nd, 3rd and 4th Rate.
	Timber, cedar and pinion.
	Heavily timbered or mountainous
	Land. 35.00 Chs.
	East on a random line.
	bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect St. and S. line, at the
	Cor. of secs. 13, 14, 23 and 24.
	Thence run
	West on a true line,
	bet. secs. 14 and 23.
	Over stony hill, ascend
	through scattering cedar and
	pinion timber.
4.00	Begin abrupt ascent, over
	broken sandstone ledges,
	bear N. E. and S. W.
29.00	Top of rocky spur, prospect
	S.
	Begin abrupt descent over
	Sandstone ledges, bearing
	N. W. and S. E.
38.75	Hatch Wash, Creek 10 lks. wide
	4 ins. deep, pure water, in
	bottom of Canon, 600 ft.
	deep, course N. W.
	Ascend
40.05	Set a sandstone, 18 x 10 x 8 ins. 12
	ins. in the ground, for ¼ sec.
	Cor., marked ¼ S. on W. face;
	and raise a mound of stone,
	3 ft. base, 1½ ft. high, W. of Cor.
	Pits impracticable.

Subdivision of T. 29 S. R. 22 E. C.

Chains	
40.50	Begin abrupt ascent, over sandstone ledges.
60.00	Top of abrupt ascent. Leave sandstone ledges, bear N. W. and S. E. Enter heavy timber, bears N. W. and S. E. Over rolling land, ascend.
80.10	The cor. of secs. 14, 15, 22 and 23. Land, mountainous. Soil, stony and rocky. 3rd and 4th Rate. Timber, cedar and pinion. Mountainous land or heavily timbered. 80.10 Chs. February 27, 1902.
	Feb. 28: At 8 A.M. l.m. t. I set off 38°17' N. on the lat. arc; 8°08' S. on the decl. arc; and determine a true meridian, with the solar, at the cor. of secs. 14, 15, 22 and 23. Thence I run N. 0°1' W. bet. secs. 14 and 15. Ascend through heavy cedar and pinion timber.
5.00	Top of ridge, bears N. E. and S. W. Descend. Leave heavy timber, bears N. E. and S. W. Enter dense artimesa and scattering timber.
20.00	Begin abrupt descent, over sandstone ledges, bearing E. and W.
22.50	Bottom of ravine, 200 ft. deep. Course E. Begin abrupt ascent.
37.00	Top of sandstone spur, projecting E.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	Begin abrupt descent.
40.00	Falls on smooth sandstone ledge, I cut a cross (x) at exact point for ¼ Sec. Cor. mark ¼ S. on W. side of cross from which
	A cedar, 8 ins. diam., bears S. 43° E. 14 lks. dist. marked ¼ S. 14. B. T.
	A pinion 12 ins. diam., bears S. 12° W. 27 lks. dist. marked ¼ S. 15. B. T.
42.00	Foot of steep descent.
	Leave sandstone ledges, bear E. and W.
	Over rolling land, descend.
44.00	Leave timber.
60.00	Enter heavy timber, bears E. and W.
65.00	Begin abrupt descent over sandstone ledges, bear E. and W.
72.00	Hatch Wash, creek, 10 lks. wide, 6 ins. deep, pure water, in canon, 600 ft. deep, course W.
	Begin abrupt ascent.
	Leave heavy timber.
	Enter scattering timber.
80.00	Top of rocky spur, projects W. Set a sandstone 18×10×8 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. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land rolling and mountainous.
	Soil stony and rocky. 3rd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous land heavily timbered or dense undergrowth. 80.00 chs.

Subdivision of T. 29 S. R. 22 E. Corbin

Chains	
	East on a random line
	bet. secs. 11 and 14
40.00	Set temp. ¼ sec. cor
80.00	Intersect N. and S. line at the
	Cor. of secs. 11, 12, 13 and 14
	Thence I run
	West on a true line
	bet. secs. 11 and 14
	Over rolling land, ascend through
	dense artimesia
11.00	Top of ridge, bears N. E. and S. W.
	Descend
20.00	Bottom of ravine, 100 ft. deep. Course
	S. W. Enter scattering cedar and
	pinion timber
	Ascend, over stony land
31.50	Top of spur, projects S. W.
	Descend
35.00	Bottom of ravine, 75 ft. deep. Course
	S. W. Ascend
38.00	Top of spur, projects S. W.
	Descend
40.00	Set a sandstone 20×10×3 ins. 15 ins.
	in the ground for ¼ sec. cor.
	marked ¼ S. on N. face
	from which
	A pinion 8 ins. diam. bears S. 64 W.
	50 lks. dist. marked ¼ S. 14 B. T.
	A pinion 10 ins. diam. bears N. 65 W. 97
	lks. dist. marked ¼ S. 11 B. T.
41.00	Drain, 30 ft. deep. Course S.
	Ascend
52.00	Top of sandstone spur
	projects S.
	Descend over broken sandstone
	ledges
54.00	Drain 30 ft. deep. Course S. W.
	Ascend
80.00	Top of spur, projects N.
	The cor. of secs. 10, 11, 14 and 15

Dist.	
	Land rolling and mountainous. Soil stony, loam and rocky. 2nd, 3rd and 4th Rate. Timber cedar and pinion. Mountainous land or dense undergrowth. 80.00 chs. February 28: At this cor. I set off 8°04' S. on the decl. arc. And at 0h 13m p.m. l. m. t. observe the Sun on the meridian, the resulting lat. is 38°18' N.
	N. 0°1' W. bet. secs. 10 and 11. Descend abruptly, over Sandstone ledges, leaving N. E. and S. W.
6.00	Hatch Wash. Creek 10 lks. wide, pure water, 6 ins. deep, in Canon 600 ft. deep, Course N. E. Begin abrupt ascent.
11.50	Top of Sandstone spur, projects E. Entire scattering cedar and pinion timber. Descend abruptly.
28.00	Hatch Wash. Creek 10 lks. wide, pure water, 6 ins. deep, in Canon, 600 ft. deep. Course N. W. Begin abrupt ascent.
36.00	Top of rocky spur, projects W. Descend.
40.00	Set a sandstone, 18×12×10 ins. 12 ins. in the ground, for ¼ Sec. cor., marked ¼ S. on W. face. And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
45.00	Hatch Wash. Creek 10 lks. wide

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	pure water, 6 ins. deep, in
	Canon, 600 ft. deep, Course N. E.
	Ascend abruptly.
49.00	Top of sandstone spur,
	projects E.
	Descend abruptly.
52.50	Watch Wash. 10 lks. wide, pure
	water 6 ins. deep, in
	Canon 600 ft. deep, Course N. W.
	Ascend abruptly.
58.00	Top of spur, projects W.
	Descend abruptly.
67.00	Watch Wash. Creek. 10 lks. wide,
	pure water, 6 ins. deep, in
	Canon, 600 ft. deep, Course N. E.
	Ascend abruptly.
74.00	Top of sandstone spur,
	projects N. E.
	Descend abruptly.
77.00	Watch Wash. Creek. 10 lks. wide,
	pure water 6 ins. deep, in
	Canon, 600 ft. deep, Course W.
	Begin abrupt ascent.
79.50	Top of steep ascent.
	Loose sandstone ledges, bear
	E. and W.
	Enter heavy timber, bears E. and W.
	Over level land.
80.00	Set a sandstone 24 x 8 x 6 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. edges;
	from which
	A pinion, 12 ins. diam., bears
	N. 21° E., 39 lks. dist. marked
	T. 29 S. R. 22 E. S. 2. B. T.
	A cedar, 12 ins. diam., bears
	S. 71° E., 46 lks. dist. marked
	T. 29 S. R. 22 E. S. 11. B. T.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	A cedar, 4 ins. diam., bears S. 60° W., 56 lks. dist., marked T. 29 S. R. 22 E., S. 10, B. T.
	A cedar, 6 ins. diam., bears N. 23° W., 70 lks. dist., marked T. 29 S. R. 22 E., S. 3, B. T.
	Land, mountainous.
	Soil, rocky, 4th Rate.
	Timber, Cedar and pinion.
	Mountainous land 80.00 chs.
	East, on a random line, bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 1, 2, 11 and 12.
	Thence I run
	N. 89° 58' W. on a true line, bet. secs. 2 and 11.
	Over rolling land, descend through scattering arrimes a.
26.00	Ibeam, 30 ft. deep, Course S. W.
	Ascend.
40.00	Set a sandstone 20×10×4 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: dig pits 18×18×12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
	This cor. is on top of a ridge, bearing N. E. and S. W.
	Descend.
60.00	Enter heavy cedar and pinion timber, bears N. and S.
80.00	The cor. of secs. 2, 3, 10 and 11.
	Land, rolling.
	Soil, loam and stony.
	2nd and 3rd Rate.

Subdivision of T. 29 S. R. 22 E. Cont'd.

Chains.

Timber, cedar and pinion.
Heavily timbered. 20.00 Chs.

N. 0° 1' W. on a random line
bet. secs. 2 and 3.
40.00 Set temp. ¼ sec. cor.
80.12 Intersect N. bdy. of Tp. at the
reestablished cor. of secs. 2, 3, 34 and 35,
heretofore described.
Thence run
S. 0° 1' E. on a true line
bet. secs. 2 and 3.
Over stony land, ascend through
heavy cedar and pinion timber.
33.00 Top of sandstone spur, projects W.
descend.
40.12 Set a sandstone 28 x 8 x 4 ins. 21 ins. in
the ground, for ¼ sec. cor. marked ¼ S.
on W. face: from which
A pinion 8 ins. diam. bears S. 19° W. 79
lks. dist. marked ¼ S. 3. B. T.
A cedar 12 ins. diam. bears S. 58° E. 10
lks. dist. marked ¼ S. 2. B. T.
49.20 Begin abrupt descent over sandstone
ledges, bearing N. W. and S. E.
59.00 Cross of Hatch Wash, Creek 12 lks.
wide, fine water, 6 ins. deep in
Canon 650 ft. deep. Course from
S. W. to N. W.
Begin abrupt ascent
73.80 Top of abrupt ascent, bears N. E. and S. W.
Over nearly level land.
80.12 The cor. to secs. 2, 3, 10 and 11.
Land, rolling and mountainous
Soil, stony and rocky, 3rd and 4th Rate.
Timber, cedar and pinion.
Mountainous or heavily timbered, 80.12 Chs.
February 28, 1902.

Subdivision of T. 29 S., R. 22 E. Continued

1 ins	March 1: At 8 A.M. l.m.t. I set off 38° 15' N. on the lat. arc: 7° 44' S. on the decl. arc: and determine a true meridian with the solar on the S. bdy. of the Tp. at the reestablished Cor. of secs. 3, 4, 33 and 34. heretofore described
	Thence I run, N. 0° 2' W. bet. secs. 33 and 34. Ascend through scattering cedar and pinion timber.
1.00	Ascend over sandstone ledges bear N. E. and S. W.
1.50	Top of sandstone knoll, bears N. E. and S. W. Descend.
2.00	Leave sandstone ledges, bear N. E. and S. W. Over rolling land, descend through dense artimesa.
40.00	Set a porphyry stone, 24×12×3 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face: from which A pinion, 12 ins. diam. bears S. 65 W. 25 lks. dist., marked ¼ S. 33. B. T. No other trees within limits. And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
72.50	Bottom of ravine, 100 ft. deep, Course N. E. Ascend.
80.00	Set a sandstone 16×14×4 ins., 11 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

Subdivision of T. 29 S., R. 22 E. Con't

Chains	
	Land, rolling.
	Soil, loam and stony.
	2nd and 3rd Rate.
	Timber, cedar and timber.
	Dense undergrowth. 79.00 chs.
	East, on a random line,
	bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at
	the cor. of secs. 26, 27, 34 and 35.
	Thence due north
	West, on a true line,
	bet. secs. 27 and 34.
	Cross rolling land, ascend
	through dense arbutus and
	scattering cedar and pinion timber.
31.50	Top of ridge, bears N.E. and S.W.
	Descend.
40.00	Set a sandstone 24×16×4 ins., 18 ins.
	in the ground, for ¼ sec. cor.,
	marked ¼ S. on N. face;
	from which
	A pinion, 14 ins. diam. bears N. 17° E.,
	7.01 chs. dist., marked ¼ S. 27. B. T.
	A cedar, 18 ins. diam. bears S. 70° E., 60
	lks. dist. marked ¼ S. 34. B. T.
68.00	Bottom of ravine, 100 ft. deep,
	Course N. E.
	Ascend.
80.00	The cor. of secs. 27, 28, 33 and 34.
	Land, rolling.
	Soil, loam and stony,
	2nd and 3rd Rate.
	Timber, cedar and pinion.
	Dense undergrowth. 80.00 chs.

	N. 0° 2' W. bet. secs. 27 and 28.
	Over rolling land, ascend through
	dense chaparral and scattering
	cedar and pinion timber.
35.00	Top of ridge, bears E. and W.
	Descend.
40.00	Set a sandstone, 24 x 12 x 4 ins., 18 ins.
	in the ground, for ¼ sec. cor. marked
	¼ S. on W. face:
	from which
	A pinion, 12 ins. diam., bears N. 30° W.
	85 lks. dist., marked ¼ S. 28. B. T.
	A pinion, 6 ins. diam., bears S. 65° E.
	64 lks. dist., marked ¼ S. 27. B. T.
44.00	Little Water Creek, now dry,
	in ravine, 200 ft. deep; course
	E. ascend.
60.50	Top of ridge, bears N. E. and S. W.
	Descend.
80.00	Set a sandstone, 22 x 6 x 6 ins.,
	16 ins. in the ground, for cor.
	of secs. 21, 22, 27 and 28, marked
	with 2 notches on S. and 3
	notches on E. edges; dig pits
	18 x 18 x 12 ins. in each sec.
	5½ ft. dist., and raise a
	mound of earth, 4 ft. base,
	2 ft. high, W. of cor.
	Land rolling.
	Soil, stony and loam.
	2nd and 3rd Rate.
	Timber, cedar and pinion.
	Dense undergrowth, 8 to 10 lks.
	March 1: At this cor. I set off
	7° 41' S. on the decl. arc: and at
	0h. 15m. p. m., L. M. T. observe
	the sun on the meridian,
	the resulting lat. is
	38° 16' N.

Subdivision of T. 29 S. R. 22 E. Con.

Chains

East, on a random line,
bet. Secs. 22 and 27.
40.00 Set temp. ¼ Sec. cor.
80.00 Intersect N. and S. line,
at the cor. of Secs. 22, 23, 26 and 27.
Thence I run
West, on a true line,
bet. Secs. 22 and 27
Descend, through scattering
Cedar and pinion timber
.35 Little Water Creek, now dry,
Wash, 50 ft. wide, 20 ft. deep, in
bottom of ravine, 200 ft. deep.
Course N. E. Ascend.
4.80 Ascend abruptly over sandstone
ledges, bearing N. E. and S. W.
6.00 Top of sandstone spur, projects S.
Descend abruptly.
7.50 Bottom of ravine, 100 ft. deep.
Course S. E.
Ascend abruptly over sandstone
ledges.
20.00 Top of abrupt ascent.
Leave sandstone ledges, bear N. and S.
Enter dense artimisia.
40.00 Set a sandstone 20×10×4 ins. 15 ins. in
the ground, for ¼ Sec. Cor., marked ¼ S.
on N. face: from 20 inch
Cedar 12 ins. diam., bears S. 73° E., 32 lks.
dist., marked ¼ S. 27. B. T.
No other trees within limits.
Sig. pits 18×18×12 ins., E. and W. of stone,
3 ft. dist., and raise a mound of earth
3½ ft. base 1½ ft. high, N. of Cor.
Begin gradual descent.
55.00 Bottom of draw, 30 ft. deep,
Course N. ascend.
75.00 Top of rocky spur, projects N.
Descend.
80.00 The cor. of Secs. 21, 22, 27 and 28.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	Land, rolling and mountainous. Soil, stony, loam and rocky 2nd, 3rd and 4th Rate. Timber, cedar and pinion. Mountainous land, or dense undergrowth. 80.00 chains.
	N. 0° 2' W. bet. secs. 21 and 22. Over rolling land, descend through dense artimesa and scattering timber.
.50	Draw, 30 ft. deep; Course, N E. Ascend.
28.00	Top of ridge, bears E. and W. Descend.
36.00	Descend over sandstone ledges, bearing E. and W.
40.00	Falls on smooth sandstone ledge, I cut a cross (x) at exact point for ¼ sec. cor: mark ¼ S. on W. side of cross: from which Apinion, 10 ins. diam., bears S. 87° E., 51 lks. dist., marked ¼ S. 22. B. T. Apinion, 10 ins. diam., bears N. 55 W., 35 lks. dist., marked ¼ S. 21., B. T.
40.40	Bottom of draw, 30 ft. deep. Course W. ascend.
43.00	Top of sandstone spur, projects N. W., descend.
45.00	Leave sandstone ledges, bear E. and W.
46.50	Three mile Creek, 3 lks. wide, pure water, 4 ins. deep, in a wash, 100 ft. wide, 40 ft. deep, in bottom of ravine, 300 ft. deep. Course E. ascend.
47.50	Begin abrupt ascent, over sandstone ledges, bearing E. and W.
49.00	Top of sandstone spur, projects S. E.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	Descend.
57.00	Bottom of ravine, 150 ft. deep,
	Course S. E.
	Begin abrupt ascent.
57.50	Top of abrupt ascent.
	Leave sandstone ledges, bear
	N. W. and S. E.
	Ascend.
68.00	Top of ridge, bears E. and W.
	Leave timber.
	Descend.
80.00	Set a cedar post, 3 ft. long, 4 ins. sq.
	with marked stone, 24 ins.
	in the ground, for cor. of
	Secs. 15, 16, 21 and 22, marked
	T. 29 S. S. 15 on N. E.
	R. 22 E. S. 22 on S. E.
	S. 21. on S. W. and
	S. 16. on N. W. faces; with 3
	notches on S. and E. edges; dig
	pits 18 x 18 x 12 ins., in each Sec.
	5½ ft. dist., and raise a mound
	of earth, 4 ft. base, 2 ft.
	high, W. of cor.
	Land rolling and mountainous.
	Soil, loam, stony and rocky;
	2nd and 3rd and 4th Rate
	Timber, cedar and pinion.
	Mountainous land or
	dense undergrowth, 80.00 chs.
	East, on a random line,
	bet. Secs. 15 and 22.
40.00	Set temp. ¼ Sec. Cor.
80.00	Intersect N. and S. line,
	at the Cor. of Secs. 14, 15, 22 and 23.
	Thence I run
	West, on a true line,

Subdivision of T. 29 S. R. 22 E. Continued.

Chains	
	bet. secs. 15 and 22.
	Ascend, through heavy cedar and pinion timber.
2.00	Top of ridge, bears N.E. and S.W.
	Leave heavy timber, bears N.E. and S.W. enter dense artimesia and scattering cedar and pinion timber.
12.00	Bottom of ravine, 100 ft. deep, Course N. ascend.
21.00	Top of spur, projects N.
	Descend, over rolling land.
40.00	Set a sandstone 18×10×4 ins. 12 ins. in the ground, for ¼ sec. cor. marked ¼ S. on N. face: dig pits 18×18×12 ins. E. and W. of stone, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
43.50	Bottom of draw, 25 ft. deep, Course N.W. ascend.
50.00	Leave timber.
80.00	The cor. of secs. 15, 16, 21 and 22.
	Land, rolling.
	Soil, loam and stony.
	2nd and 3rd Rate.
	Timber, cedar and pinion.
	Dense undergrowth or heavily timbered. 80.00 Chs.
	March 1, 1902.

March 2: At 8 A.M. L.M.-t. I set off 38° 17' N. on the lat. arc: 7° 22' S. on the decl. arc; and determine a true meridian with the solar, at the cor. of Secs. 15, 16, 21 and 22.
Thence I run
N. 0° 2' W. bet. secs. 15 and 16.
Over gradual descent, through

Subdivision of T. 29 S., R. 22 E. Continued

Chains	
	Scattering mimosa and bunch grass.
40.00	Bottom of draw, 20 ft. deep, Course E.
	Set a cedar post, 3 ft. long, 4 ins. sq., 24 ins. in the ground, for ¼ sec. cor., marked ¼ S. 16. on W. and 15 on E. faces: dig pits 18 x 18 x 12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
	Ascend gradually.
55.00	Top of ridge, bears E. and W.
	Descend.
70.00	Begin abrupt descent over sandstone ledges, bearing N. E. and S. W. into scattering timber.
77.50	Bottom of ravine, 250 ft. deep, Course N. E.
	Ascend abruptly over sandstone ledges.
80.00	Set a sandstone 20 x 10 x 4 ins., 15 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. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, rolling and mountainous.
	Soil, loam, stony and rocky.
	2nd, 3rd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous land, 10.00 chs.

	East, on a random line, bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	At the cor. of secs. 10, 11, 14 and 15.
	Thence I run
	West on a true line,
	bet. secs. 10 and 15.
	Over sandstone ledges, descend
	through scattering cedar and
	pinion timber.
2.50	Begin abrupt descent;
7.00	Hatch Wash, Crek. 10 lks. wide,
	pure water 6 ins. deep, in
	Canon 600 ft. deep, Course N.
	Begin abrupt ascent.
15.00	Top of abrupt ascent.
	Leave sandstone ledges, bear
	N. and S.
	Ascend through dense
	chaparral.
37.00	Top of ridge, bears N. and S.
	Descend.
	Leave timber.
40.00	Set a sandstone 20×10×3 ins. 15 ins.
	in the ground, for ¼ Sec. Cor.
	marked ¼ S. on N. face; dig pits
	18×18×12 ins., E. and W. of stone, 3 ft.
	dist., and raise a mound of earth,
	3½ ft. base, 1½ ft. high, N. of cor.
65.00	Begin abrupt descent. Over
	sandstone ledges, bearing
	N. E. and S. W.
	Enter scattering timber.
72.00	Bottom of ravine, 250 ft. deep,
	Course N. E.
	Ascend abruptly.
80.00	The cor. of secs. 9, 10, 15 and 16.
	Land, rolling and Mountainous
	Soil, loam, stony and rocky.
	2nd, 3rd and 4th Rate.
	Timber, cedar and pinion
	Mountainous, land or dense
	undergrowth. 80.00 chs.

Subdivision of T. 29 S., R. 22 E. Continued.

Chains

N 0° 2' W. bet. secs. 9 and 10
Over sandstone ledges, ascend through scattering Cedar and pinion timber.

8.00 Leave sandstone ledges, bear E. and W.
Leave timber
Over rolling land, ascend, through dense artimesa.

37.00 Top of ridge, bears E. and W.
Descend.

40.00 Set a sandstone, 18×12×12 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Pits impracticable.

45.00 Bottom of ravine, 60 ft. deep, Course N. E. ascend.

50.00 Top of rocky spur, projects N. E.
Descend, enter scattering timber.

51.50 Bottom of ravine, 100 ft. deep, Course E.
Ascend over sandstone ledges.

60.00 Leave sandstone ledges, bear E. and W.
Leave timber.
Ascend.

80.00 Set a sandstone, 16×14×3 ins., 11 ins. in the ground, for cor. of Sec. 3.4.9.10 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, rolling and mountainous.
Soil, loam, stony and rocky.
2nd, 3rd and 4th Rate.
Timber, cedar and pinion.
Mountainous land, or dense undergrowth. 80.00 chs.
Work 2: At this cor. I set off 7°19' S. on the decl. arc: and at

Subdivision of T. 29 S. R. 22 E. Continued.

Chains	
	0h 12m p.m. l.m.t. observe the sun on the meridian, the resulting lat. is 38° 19' N.
	East: on a random line. Bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line. At the cor. of secs. 2, 3, 10 and 11. Thence I run
	West: on a true line, Bet. secs. 3 and 10. Over stony land land. descend through heavy cedar and pinion timber.
10.00	Begin abrupt descent over sandstone ledges. Leave heavy timber bears N. and S. enter scattering timber.
22.00	Latch Wash, Creek 12 lks. wide, pure water, 6 ins. deep. in Canon 650 ft. deep. Course N. E. Begin abrupt ascent.
38.00	Top of steep ascent. Leave sandstone ledges. bear N. and S. Enter dense artimesa. Over stony land. descend.
40.00	Set a sandstone 16 x 12 x 3 ins. 11 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
52.00	Bottom of ravine, 60 ft. deep. Course S. E. Ascend over sandstone ledges.
60.00	Top of sandstone ledges. bear N. W. and S. E. Descend.

Subdivision of T. 29 S., R. 22 E. Continued

Chains	
	Leave sandstone ledges.
80.00	The cor. of secs. 3, 4, 9 and 10.
	Land, rolling and mountainous.
	Soil, loam, stony and rocky, 2nd, 3rd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous or dense undergrowth or heavily timbered. 80.00 chs.

	N. 0°2' W. on a random line bet. secs. 3 and 4.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect W. bdy. of Tp. at the rec established cor. of secs. 3, 4, 33 and 34. heretofore described.
	Thence I run S. 0°2' E. on a true line, bet. secs. 3 and 4.
	Over rolling land, ascend through dense chaparral.
40.08	Set a sandstone, 18×12×10 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
55.00	Top of spur, suspect W. Descend.
80.08	The cor. of secs. 3, 4, 9 and 10.
	Land, rolling.
	Soil, loam and stony, 2nd and 3rd Rate.
	No timber.
	Dense undergrowth, 80.08 chs.

March 2, 1902.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	March 3: At 8 A.M. l.m.t. I set off 38°15' N. on the lat. arc: 6°58' S. on the decl. arc: and determine a true meridian with the solar, on the S. bdy. of the Tp. at the reëstablished Cor. of Secs. 4, 5, 32 and 33, heretofore described.
	Thence I run N. 0°3' W. bet. Secs. 32 and 33.
	Over rolling land, descend through dense arbinesa.
8.00	Enter heavy cedar and pinion timber; bears N.E. and S.W.
31.00	Bottom of ravine, 150 ft. deep. Course N.E.
	Ascend.
40.00	Set a sandstone, 20×12×6 ins., 15 ins. in the ground, for ¼ Sec. Cor. marked ¼ S. on W. face:
	from which
	A pinion, 6 ins. diam., bears N. 64 W., 14 lks. dist., marked ¼ S. 32, B. T.
	A cedar, 6 ins. diam., bears N. 63 E., 41 lks. dist., marked ¼ S. 33, B. T.
62.00	Leave timber, bears N.E. and S.W.
80.00	Set a sandstone, 24×10×4 ins. 18 ins. in the ground, for Cor. of Secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edges: dig pits 18×18×12 ins. in each Sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of Cor.
	Land, rolling
	Soil, loam and stony. 2nd and 3rd Rate.
	Timber, cedar and pinion. Heavily timbered or dense undergrowth. 80.00 chs.

Subdivision of T. 29 S. R. 22 E. Continued.

Chains

East, on a random line,
bet. secs. 28 and 33.

40.00 Set temp. ¼ sec. cor.

80.08 Intersect N. and S. line, at the
Cor. of secs. 27, 28, 33 and 34.
Thence I run
West, on a true line,
bet. secs. 28 and 33.
Over rolling land, ascend through
dense chaparral and scattering
cedar and pinion timber.

18.50 Top of ridge, bears N. and S.
Descend.

39.00 Bottom of draw, 30 ft. deep, course
S. E. Ascend.

40.04 Set a sandstone 24x12x3 ins., 18 ins. in
the ground, for ¼ sec. cor., marked ¼ S.
on N. face: from which
A pinion, 10 ins. diam., bears N. 45° E., 60
lks. dist., marked ¼ S. 28, B. T.
A cedar, 10 ins. diam., bears S. 51° E., 79 lks.
dist., marked ¼ S. 33, B. T.

65.00 Crane timber, bears N. E. and S. W.

80.08 The cor. of secs. 28, 29, 32 and 33.
Land, rolling.
Soil, loam and stony.
2nd and 3rd Rate.
Timber, cedar and pinion.
Dense undergrowth, 80.08 chs.
Match 3: At this cor. I set off
6° 56' S. on the decl. arc: and at 8h. 12m.
a. m., l. m. t., observe the sun on
the meridian, the resulting
lat. is 38° 16' N.

N. 0° 3' W. bet. secs. 28 and 29.
Over rolling land, ascend through
dense chaparral.

Subdivisions of T. 29 S. R. 22 E. Continued

Chains	
31.00	Top of ridge, bears E. and W. Descend.
40.00	Set a sandstone 22×8×4 ins., 16 ins. in the ground, for ¼ sec. cor. marked ¼ S. on W. face: dig pits 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
70.00	Bottom of ravine, 100 ft. deep, course N. W. ascend. Enter scattering timber.
71.50	Begin descent over sandstone ledges.
78.00	Set a sandstone, 28×14×4 ins., 21 ins. in the ground, for witness cor. to cor. of secs. 20, 21, 28 and 29, marked W. C. on W. face: and with 2 notches on S. and 4 notches on E. edges: from which A pinion, 7 ins. diam., bears S. 10° E., 33 lks. dist., marked W. C., T. 29 S., R. 22 E., S. 28, B. T. A pinion, 6 ins. diam., bears S. 82° W., 46 lks. dist., marked W. C., T. 29 S., R. 22 E., S. 29, B. T. No other trees within limits, and raise a mound of stone, 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Begin abrupt descent.
80.00	Point for cor. of secs. 20, 21, 28 and 29 falls on steep slope and cannot be set.

Land, rolling and mountainous.
Soil, loam, stony and rocky.
2nd, 3rd and 4th Rate.
Timber, cedar and pinion.
Mountainous land, or dense undergrowth, 80.00 chs.

Subdivision of T. 29 S., R. 22 E. Continued.

Chains	
	East on a random line, bet. secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 21, 22, 27 and 28. Thence Q. mm S. 89° 59' W. on a true line, bet. secs. 21 and 28. Descend through dense arbutus.
.40	Bottom of draw, 30 ft. deep. Course N. E. ascend.
40.03	Set a sandstone, 24 x 10 x 4 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
63.00	Top of ridge, bears N. and S. Enter heavy timber, bears N. and S. Descend.
75.00	Begin abrupt descent, over sandstone ledges, bearing N. E. and S. W. Leave heavy timber, enter scattering timber.
80.06	The point for cor. of secs. 20, 21, 28 and 29.
	Land, rolling. Soil, loam, stony and rocky. 2nd, 3rd and 4th Rate. Timber, cedar and pinion. Heavily timbered or dense undergrowth, 80.06 chs.
	N. 0° 3' W. bet. secs. 20 and 21 Descend, abruptly, over sandstone ledges.
1.50	Foot of abrupt descent, Leave sandstone ledges, bear N. E. and S. W. Over bottom land.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
4.30	Wash, 15 ft. wide, 15 ft. deep, in bottom of ravine, 200 ft. deep, Course N. E.
9.25	Leave bottom land. Begin abrupt ascent over Sandstone ledges, bearing N. E. and S. W. Enter Scattering timber.
16.00	Top of abrupt ascent. Leave Sandstone ledges, bear N. E. and S. W. Leave timber. Ascend through dense underwoods.
33.00	Top of ridge, bears E. and W. Descend.
40.00	Set a Sandstone, 18×10×8 ins. 12 ins. in the ground, for ¼ Sec. Cor. Marked ¼ S. on W. face: dig pits 18×18×12 ins., N. and S. of Stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of Cor.
45.00	Wash, 30 ft. deep, Course N. E. Ascend.
49.00	Begin descent.
55.00	Enter Scattering timber.
57.00	Bottom of ravine, 100 ft. deep, Course S. E. Ascend.
62.00	Leave timber.
76.00	Top of ridge, bears E. and W. Descend.
80.00	Set a Sandstone 20×14×3 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. edges: and raise a mound of Stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable. Land, rolling and mountainous. Soil, loam, Stony and rocky.

2nd, 3rd and 4th Rolls.

Subdivision of T. 29 S., R. 22 E. Continued

Chains	
	Timber, cedar and pinion. Mountainous land, or dense undergrowth. 80.00 chs. March 3, 1902
	March 4: At 8 A.M. l. m. t., I set off 38° 17' N. on the lat. arc: 6° 35' S. on the 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° 59' E. on a random line, bet. Secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line, 3 lks. N. of the cor. of Secs. 15, 16, 21 and 22. Thence I run West, on a true line, bet. Secs. 16 and 21. Over rolling land, ascend through dense artimesa.
28.00	Top of ridge, bears N.W. and S.E. Descend, into scattering timber.
40.02	Set a sandstone, 16 × 10 × 4 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
40.50	Bottom of ravine, 200 ft. deep. Course S.E. ascend.
52.00	Top of ridge, bears N. and S., descend.
63.00	Ravine, 25 ft. deep. Course N. Ascend. Leave timber.
80.04	The Cor. of Secs. 16, 17, 20 and 21. Land, rolling. Soil, loam and stony, 2nd and 3rd Rate. Timber, cedar and pinion. Dense undergrowth. 80.04 chs.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	N. 0°3' W. bet. secs. 16 and 17.
	Over rolling land, descend through
	dense underwood.
21.75	Bottom of ravine, 100 ft. deep,
	Course N. E. ascend.
37.00	Top of ridge, bears E. and W. descend.
40.00	Set a sandstone 16×10×5 ins. 11
	ins. in the ground, for ¼ sec. cor.
	marked ¼ S. on W. face: and raise
	a mound of stone, 2 ft. base,
	1½ ft. high, W. of cor.
	Pits impracticable.
62.50	Bottom of ravine, 150 ft. deep,
	Ascend.
66.00	A sandstone knoll, 400×300 ft.
	250 ft. high, bears W. 6 chs.
	Begin descent.
78.00	Bottom of ravine, 50 ft. deep,
	Course S. E. ascend.
80.00	Set a sandstone, 18×10×6 ins. 12
	ins. in the ground, for cor. of secs.
	8, 9, 16 and 17. marked with 4 notches
	on S. and E. edges: dig pits 18×18×12
	ins. in each sec. 5½ ft. dist.,
	and raise a mound of earth, 4 ft.
	base, 2 ft. high, W. of cor.
	Land, rolling.
	Soil, loam and stony, 2nd and 3rd Rate.
	No timber.
	Dense undergrowth. 80.00 chs.

	Cast on a random line,
	bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line, at
	the cor. of secs. 9, 10, 15 and 16.
	Thence I run
	West on a true line,

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	bet. secs. 9 and 16.
	Over sandstone ledges, ascend through scattering cedar and pinion timber.
4.50	Leave sandstone ledges, bear N.E. and S.W. Ascend.
7.00	Top of spur, projects S. E. Descend.
20.00	Begin abrupt descent over broken sandstone ledges.
39.00	Bottom of ravine, 100 ft. deep, Course S. ascend.
40.01	Falls on smooth sandstone ledge, I cut a cross (x) at exact point for ¼ sec. cor., mark ¼ S. on N. side of cross, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
41.50	Top of sandstone spur, projects S. Descend.
46.00	Bottom of ravine, 75 ft. deep, Course S. Ascend.
51.00	Top of sandstone ledges. Leave sandstone ledges, bear N.E. and S.W. Ascend, through dense artimesa.
77.00	Top of spur, projects S. descend.
80.12	The cor. of secs. 8, 9, 16 and 17. Land, rolling and mountainous. Soil, stony and rocky. 3rd and 4th Rate. No timber. Mountainous land or dense undergrowth. 80.02 chs. March 4: At this cor. I set off 6°33' S. on the decl. arc: and at 0h 12m p.m. l.m.t. observe the sun on the meridian, the resulting lat. is 38° 18' N.

Subdivision of T. 29 S., R. 22 E. Continued

Chains	
	N. 0° 3' W. bet. secs. 8 and 9.
	Over rolling land, ascend through
	dense artimesia.
40.00	Set a sandstone, 14x10x4 ins., 10 ins. in the
	ground, for ¼ Sec. Cor., marked ¼ S. 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 E. and W.
	Descend.
62.50	Bottom of ravine, 75 ft. deep, course E.
	Ascend.
	Enter scattering timber.
76.00	Top of ridge, bears E. and W.
	Leave timber.
	Descend.
80.00	Set a sandstone, 14x10x8 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. edges: dig pits 18x18x12 ins.,
	in each sec., 5½ ft. dist., and
	raise a mound of earth, 4 ft.
	base, 2 ft. high, W. of Cor.
	Land, rolling.
	Soil, loam and stony, 2nd and 3rd Rate.
	Timber, cedar and pinion.
	Dense undergrowth. 80.00 chs.

	East, on a random line,
	bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line,
	at the cor. of secs. 3, 4, 9 and 10.
	Thence I run
	West, on a true line,
	bet. secs. 4 and 9.
	Over level land, through dense artimesia.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
14.00	Wash. 10 ft. wide, 4 ft. deep. Course S.
24.25	Wash. 15 ft. wide, 5 ft. deep. Course S. Ascend.
35.00	Top of rocky spur, projects S. Descend over sandstone ledges.
37.50	Leave sandstone ledges. bear N. W. and S. E.
40.00	Set a sandstone 14 x 14 x 5 ins. 10 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face. And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
44.00	Bottom of ravine, 75 ft. deep. Course S. E. ascend.
65.00	Top of rocky spur, projects N. Descend.
75.00	Draw, 20 ft. deep. Course N. Ascend.
80.00	The cor. of secs. 4, 5, 8 and 9. Land, level and rolling. Soil, loam, stony and rocky. 2nd 3rd and 4th Rate. No timber. Dense undergrowth. 80.00 chs.

N. 0° 3' W. on a random line, bet. secs. 4 and 5.

40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. bdy. of Tp. 3 chs. W. of the reestablished Cor. of secs. 4, 5, 32 and 33. heretofore described. Thence I run. S. 0° 2' E. on a true line, bet. secs. 4 and 5. Over rolling land, descend through heavy cedar and pinion timber.

Subdivision of T. 29 S., R. 22 E. Continued.

Chains	
20.00	Bottom of chan. 30 ft. deep. Course E. Leave timber, bears N. E. and S. W. Enter dense arbinesa. Ascend.
31.00	Begin ascent; over sandstone ledges, bearing N. W. and S. E.
40.08	Set a sandstone 20 x 10 x 6 ins. 15 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
43.50	Top of sandstone spur, projects E. Begin abrupt descent.
45.75	Foot of steep descent. Leave sandstone ledges, bear E. and W. Over rolling land. Ascend.
71.50	Top of spur, projects E. Descend.
80.08	The Cor. of secs. 4, 5, 8 and 9. Land, rolling and mountainous. Soil, loam, stony and rocky. 2nd, 3rd and 4th Rate. Timber, cedar and pinion. Mountainous land, heavily timbered or dense undergrowth, 80.08 chs. March 4, 1902.

March 5: At 8 A. M. l. m. t., I set off 38° 15' N. on the lat. arc: 5° 12' S. on the decl. arc: and determine a true meridian, with the solar, on the S. bdy. of the Tp., at the reestablished cor. of secs. 5, 6, 31 and 32.

Subdivision of T. 29 S., R. 22 E. Continued.

Chains	
	heretofore described.
	Thence I run
	N. 0° 3' W. bet. secs. 31 and 32.
	Over rolling land, ascend through
	dense underbrush.
19.75	Top of ridge, bears N. W. and S. E.
	Descend.
40.00	Deposited a quart of charcoal, 12 ins.
	in the ground, for ¼ sec. cor.: dig
	pits, 18 x 18 x 12 ins., N. and S. of
	Cor., 4 ft. dist.: and raise a
	mound of earth, 3½ ft. base,
	1½ ft. high, over deposit.
	In S. pit drove a cedar stake,
	2 ft. long, 2 ins. sq., 12 ins. in
	the ground, marked
	¼ S. 31, on W. and 32 on E. faces.
67.00	Enter scattering cedar and pinion
	timber.
78.00	Sandstone ledges, bear E. and W.
80.00	Point for sec. cor. falls on a
	smooth sandstone ledge:
	I cut a cross (x) at exact point
	for cor. of secs. 29, 30, 31 and 32,
	mark. 1 groove on S. and 3
	grooves on E. sides of cross:
	And raise a mound of stone,
	2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	Land, rolling.
	Soil, loam and stony, 2nd and 3rd Rate.
	Timber, cedar and pinion.
	Dense undergrowth. 80.00 Chs.

	East on a random line,
	bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at the

Subdivision of T. 29 S., R. 22 E. Continued

Chains	
	Cor. of secs. 28, 29, 32 and 33.
	Thence S. mm.
	West, on a line line,
	bet. secs. 29 and 32.
	Over rolling land, ascend through
	dense artemesia.
29.00	Top of ridge, bears N. E. and S. W.
	Descend.
40.00	Set a pinion post, 3 ft. long, 4 ins. sq. with marked stone
	24 ins. in the ground, for ¼ sec. cor.
	marked ¼ S. 29, on N. and 32 on S. faces:
	dig pits 18 × 18 × 12 ins. E. and W. of post,
	3 ft. dist., and raise a mound of
	earth, 3½ ft. base, 1½ ft. high, N. of cor.
40.40	Bottom of draw, 25 ft. deep.
	Course N. E., ascend.
50.00	Top of spur, projects N., descend.
	Enter scattering cedar and pinion
	timber.
77.00	Sandstone ledges, bear N. and S.
80.00	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling.
	Soil, loam and stony,
	2nd and 3rd Rate.
	Timber, cedar and pinion.
	dense undergrowth. 80.00 chs.

	West, on a random line,
	bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.
79.35	Intersect W. bdy. of Tp.
	at the re-established cor.
	of secs. 25, 30, 31 and 36.
	heretofore described.
	Thence S. mm
	East, on a line line,
	bet. secs. 30 and 31.
	Over stony land, descend

Subdivision of T. 29 S., R. 22 E. Continued.

Chains

through heavy cedar and
pinion timber.
5.00 Top of sandstone ledges, 30 ft.
high, bear N. and S. descend.
5.50 Foot of sandstone ledges.
bear N. and S.
Over rolling land, descend.
37.30 Bottom of ravine, 75 ft. deep
Course N.
Leave heavy timber, bears N. and S.
Enter scattering timber and dense
chimesa.
Ascend.
39.35 Set a sandstone 18×10×6 ins., 12 ins.
in the ground, for ¼ sec. cor., marked
¼ S. on N. face:
from which
A pinion, 12 ins. diam., bears S. 22° E.,
41 lks. dist., marked ¼ S. 31, B.T.
No other trees within limits.
And raise a mound of stone, 2 ft.
base, 1½ ft. high, N. of cor.
Pits impracticable.
77.50 Over sandstone ledges, bear N. and S.
79.35 The cor. of secs. 29, 30, 31, and 32.
Land, rolling.
Soil, loam, stony and rocky.
2nd, 3rd, and 4th Rate.
Timber, cedar and pinion.
Heavily timbered or dense
undergrowth. 79.35 chs.

N. 0° 3' W. bet. secs. 29 and 30.
Descend gradually over
sandstone ledges.
4.00 Leave sandstone ledges, bear
E. and W.
Over rolling land, descend through

Subdivision of T. 29 S. R. 22 E. Continued.

Chains	
	Dense artimesa and scattering Cedar and pinion timber.
40.00	Set a sandstone 12 × 8 × 6 ins., 8 ins in the ground, for ¼ sec. cor. marked ¼ S. on W. face: dig pits 18 × 18 × 12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
45.00	Bottom of ravine, 150 ft. deep, Course E. ascend.
72.00	Leave timber.
77.00	Top of ridge, bears E. and W. Descend.
80.00	Set a sandstone, 24 × 12 × 4 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. edges: dig pits 18 × 18 × 12 ins. in each sec., 5½ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, loam, stony and rocky. 2nd, 3rd and 4th Rate. Timber, cedar and pinion. Dense undergrowth, 80.00 chs. March 5: At this Cor. I set off 6° 10' S. on the decl. arc: and at 0h. 12m. p. m., L. M. L. observe the sun on the meridian, the resulting Lat. is 38° 16' N.
	East, on a random line, bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at the point for Cor. of secs. 20, 21, 28 and 29, witness 2.00 S.

Subdivision of T. 29 S. R. 22 E. Continued.

Chains	
	Thence I run West, on a true line, bet. Secs. 20 and 29. Descend. abruptly over sandstone ledges, through scattering timber.
1.50	Leave sandstone ledges. bear N.E. and S.W. Cross bottom land.
4.25	Three Mile Creek, now dry, in wash 10 ft. wide, 10 ft. deep, in bottom of ravine, 200 ft. deep. Course W.
6.75	Leave bottom land. Begin abrupt ascent over sandstone ledges.
8.25	Top of abrupt ascent bears N. E. and S. W. Leave sandstone ledges. Cross stony land, ascend through dense artemesia.
14.00	Top of rocky spur, projects S. E. Descend.
24.00	Bottom of ravine, 150 ft. deep. Course S. E. ascend.
40.00	Set a sandstone 24 x 18 x 10 ins. 18 ins. in the ground, for ¼ Sec. Cor. marked ¼ S. on N. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of Cor. Pits impracticable.
80.00	The Cor. of Secs. 19, 20, 29 and 30. Land, rolling and mountainous. Soil loam, stony and rocky 2nd, 3rd, and 4th Rate. Timber, cedar and pinion. Mountainous land and dense undergrowth, 80.00 chs.

Subdivision of T. 29 S., R. 22 E., Continued.

Chains	
	West, on a random line, bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
79.28	Intersect N. bdy. of Tp. 9 lks. S. of the reëstablished cor. of secs. 19, 24, 25 and 30. heretofore described. Thence run S. 89° 56' E. on a line bet. secs. 19 and 30. Over rolling land, ascend through dense arbinesa.
11.00	Enter scattering cedar and pinion timber.
39.28	Set a sandstone, 32×10×4 ins., 24 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: dig pits 18×18×12 ins., E. and N. of stone, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
65.00	Top of ridge, bears N.W. and S.E. Descend.
79.28	The cor. of secs. 19, 20, 29 and 30. Land, rolling. Soil, loam. 2nd Rate. Timber, cedar and pinion. Dense undergrowth, 79.28 chs.
	N. 0° 3' W. bet. secs. 19 and 20. Over rolling land, descend through dense arbinesa.
10.00	Drain, 25 ft. deep, course N.E. Ascend.
40.00	Set a sandstone 16×10×5 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: dig pits 18×18×12 ins., N. and S. of stone, 3 ft. dist. and raise a mound of earth

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	3½ ft. base, 1½ ft. high, N. of cor.
44.00	Top of ridge, bears E. and W.
	Descend.
	Enter scattering timber.
77.00	Bottom of ravine, 100 ft. deep.
	Course N. E.
	Ascend over sandstone ledges,
	bearing N. E. and S. W.
80.00	Falls on a smooth sandstone
	ledge, I cut a cross (X) at exact
	point for cor. of secs. 17, 18, 19
	and 20, marked 3 grooves on S.
	and 5 grooves on E. sides
	of cross: and raise a mound of
	stone, 2 ft. base, 1½ ft. high,
	N. of cor.
	Pits impracticable.
	Land, rolling.
	Soil, loam, stony and rocky.
	2nd, 3rd and 4th Rate.
	Timber, cedar and pinion.
	Dense undergrowth. 80.00 chs.

	East, on a random line,
	bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line.
	At the cor. of secs. 16, 17, 20 and 21.
	Thence I run
	West, on a true line,
	bet. secs. 17 and 20.
	Over rolling land, ascend through
	dense undergrowth.
40.00	Set a sandstone, 16×14×4 ins., 12 ins. in
	the ground, for ¼ sec. cor. marked
	¼ S. on N. face: dig pits 18×18×12 ins.
	E. and W. of stone, 3 ft. dist. and
	raise a mound of earth, 3½ ft.

Subdivision of T. 29 S., R. 22 E. Continued.

Chains	
	base, 1½ ft. high, N. of cor.
48.00	Top of ridge, bears N. and S.
	Enter scattering timber.
74.25	Bottom of ravine, 125 ft. deep.
	Course N. E.
	Ascend over sandstone ledges
	bearing N. E. and S. W.
80.00	The Cor. of secs. 17, 18, 19 and 20.
	Land, rolling.
	Soil, loam, stony and rocky
	2nd, 3rd, 4th Rule.
	Timber, cedar and pinion.
	Dense undergrowth, 80.00 chs.
	March 5, 1902.

March 6: At 8 A.M. L.M.T. I set of 38° 17' N. on the lat. arc: 5° 49' S. on the 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° 56' W. on a random line, bet. secs. 18 and 19.

40.00	Set temp. ¼ sec. cor.
79.18	Intersect N. bdy. of Tp. 5 chs. N. of the ries to established cor. of secs. 13, 18, 19 and 24. heretofore described.

Thence I run S. 89° 58' E. on a true line, bet. secs. 18 and 19.

	Over rolling land, descend through dense artimesia
22.00	Enter scattering cedar and pinion timber.
33.00	Bottom of ravine, 75 ft. deep,
	Course N. E.
	Ascend.

Subdivision of T. 29 S., R. 22 E. Continued

Chains	
39.18	Top of spur, projects N. Set a sandstone 15×12×4 ins. 10 ins. in the ground, for ¼ sec. Cor., marked ¼ S. on N. face; dig pits 18×18×12 ins., E. and W. of stone; 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. Descend.
44.75	Bottom of ravine, 75 ft. deep, course N., Ascend. Leave timber.
60.00	Top of spur, projects N. E. Descend.
77.00	Over sandstone ledges, bearing N. E. and S. W. descend.
79.18	The cor. of secs. 17, 18, 19 and 20. Land, rolling. Soil, loam, stony and rocky, 3rd and 4th Rate. Timber cedar and pinion. Dense undergrowth. 79.18 chs.
	N. 0° 3' W. bet. secs. 17 and 18. Ascend over sandstone ledges.
2.00	Leave sandstone ledges, bear N. E. and S. W. Ascend through dense artimesia.
3.50	Top of ridge, bears N. E. and S. W. Descend.
26.00	Bottom of ravine, 150 ft. deep, Course E., Ascend.
40.00	Set a sandstone, 18×10×8 ins., 12 ins. in the ground, for ¼ sec. Cor. marked ¼ S. on N. face; dig pits 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
64.00	Begin ascent over sandstone ledges, bearing N. E. and S. W.
80.00	Set a sandstone 18×10×6 ins. 12 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked with 4 notches on S. and 5 notches on E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of cor. Pits impracticable. Land, rolling and mountainous. Soil, loam, stony and rocky. 2nd, 3rd and 4th Rate. No timber. Mountainous land, or dense undergrowth; 80.00 chs.
	East, on a random line, bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line, at the cor. of secs. 8, 9, 16 and 17. Thence I run West, on a true line, bet. secs. 8 and 17. Descend through dense underwood.
2.50	Bottom of cabine, 50 ft. deep. Course S. E. Over rolling land, ascend.
31.00	Begin abrupt ascent, over sandstone ledges, bearing N. and S.
32.00	Top of abrupt ascent, beds N. and S. Ascend, enter scattering timber.
40.03	Falls on a smooth sandstone ledge. I cut a cross (×) at exact point for ¼ sec. cor., mark ¼ S. on N. side of cross; and raise a mound of stone, 2 ft. base, 1½

Subdivision of T. 29 S., R. 22 E. Continued

Chains	
	ft. high, N. of cor.
	Pits impracticable.
80.06	The cor. of secs. 7, 8, 17 and 18.
	Land, rolling and mountainous.
	Soil, loam, stony and rocky.
	2nd, 3rd and 4th Rate.
	Timber, cedar and pinion.
	Mountainous land or
	dense undergrowth, 80.06 chs.
	N. 89° 58' W. on a random line,
	bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
79.12	Intersect N. bdy. of Tp. 3 lks.
	N. of the reëstablished cor.
	of secs. 7, 12, 13 and 18.
	heretofore described.
	Thence run
	S. 89° 59' E., on a true line,
	bet. secs. 7 and 18.
	Cross rolling land, descend
	through dense artimesa.
39.12	Set a sandstone, 20 × 8 × 4 ins.
	15 ins. in the ground, for ¼
	sec. cor., marked ¼ S. on N.
	face: dig pits, 18 × 18 × 12 ins., E.
	and W. of stone, 3 ft. dist., and
	raise a mound of earth, 3½ ft.
	base, 1½ ft. high, N. of cor.
50.00	Enter scattering cedar and pinion
	timber.
69.00	Descend over sandstone ledges,
	bearing N. E. and S. W.
79.12	The cor. of secs. 7, 8, 17 and 18.
	Land, rolling.
	Soil, loam, stony and rocky.
	2nd, 3rd and 4th Rate.
	Timber, cedar and pinion.

69.00 / 10 12

Subdivision of T. 29 S., R. 22 E. Continued.

Chains	
	Dense undergrowth, . . 69.00 chs. March 6j. At this cor. I set-off 5° 46' S. on the decl. arc: and at 0h. 12m. p. m., l. m. t. observe the sun on the meridian, the resulting lat. is 38° 18' N.
	N. 0° 3' W. bet. secs. 7 and 8. Cross sandstone ledges. Ascend, though scattering timber.
20.00	Top of ridge, bears N. E. and S. W. Leave sandstone ledges, bear N. E. and S. W. leave timber. Cross rolling land, descend through dense artimesia.
40.00	Set a sandstone, 16 x 10 x 6 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face: dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
80.00	Set a sandstone 20 x 8 x 8 ins. 15 ins. in the ground, for cor. of secs. 5, 6, 7 and 8 marked with 5 notches on S. and E. edges: dig pits 18 x 18 x 12 ins., in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, loam, stony and rocky. 2nd, 3rd and 4th Rods— Timber, cedar and pinion. Dense undergrowth, 60.00 chs.

Subdivision of T. 29 S. R. 22 E. Continued

Chains	
	East, on a random line, bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at the cor. of secs. 4, 5, 8 and 9. Thence I run West, on a true line, bet. secs. 5 and 8. Ascend through dense underbrush and scattering cedar and pinion timber.
7.00	Begin abrupt ascent over sandstone ledges, bearing N. W. and S. E.
10.00	Top of sandstone ridge, 200 ft. above the cor. of secs. 4, 5, 8 and 9. bears N. W. and S. E. Begin abrupt descent
15.50	Foot of steep descent. Leave sandstone ledges and timber, bear N. W. and S. E. Descend.
22.85	Drain, 30 ft. deep, course S. E. Ascend.
30.50	Top of spur, projects S. E. Descend.
39.50	Drain, 30 ft. deep, course S. E. Ascend.
40.00	Set a sandstone 16 x 10 x 8 ins. 11 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: dig pits 18 x 18 x 12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
45.00	Enter scattering timber.
67.00	Top of ridge, bears N. and S. Descend. Leave timber.
80.00	The cor. of secs. 5, 6, 7 and 8.

Subdivision of T. 29 S., R. 22 E. Continued

Chains	
	Land, rolling and Mountainous. Soil, loam, stony and rocky, 2nd, 3rd and 4th Rate. Timber, cedar and pinion. Mountainous land, or dense undergrowth, 80.00 chs.
	N. 89° 59' W. on a random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
79.08	Intersect W. bdy. of Tp. 3 lks. N. of the ascertained cor. of secs. 1, 6, 7 and 12. Thence run East, on a true line, bet. secs. 6 and 7. Cross rolling land, descend gradually through dense artimesia.
39.08	Set a sandstone, 16 x 10 x 6 ins. 11 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face: dig pits 18 x 18 x 12 ins. E. and W. of stone, 3 ft. dist. and raise a mound of earth. 3½ ft. base, 1½ ft. high, N. of cor.
72.00	Begin gradual ascent.
79.08	The Cor. of Secs. 5, 6, 7 and 8. Land, rolling. Soil, loam, 2nd Rate. No timber. Dense undergrowth. 79.08 chs.
	N. 0° 3' W. on a random line, bet. secs. 5 and 6.
40.00	Set temp. ¼ sec. cor.

Subdivision of T. 29 S., R. 22 E. Concluded.

Chains	
80.00	Intersect N. bdy. of Tp., at the reestablished Cor. of secs. 5, 6, 31 and 32. heretofore described.
	Thence I run
	S 0°3' E. on a true line, bet. secs. 5 and 6.
	Ascend, through dense underwood.
15.00	Top of ridge, bears E. and W. descend.
40.00	Set a sandstone 16×10×4 ins., 11 ins. in the ground, for ¼ sec. Cor., marked ¼ S. on W. face: dig pits, 18×18×12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
68.00	Begin gradual ascent.
80.00	The Cor. of secs. 5, 6, 7 and 8.
	Land, rolling.
	Soil, loam. 2nd. Rate.
	No timber.
	Dense undergrowth 80.00 chs.
	March 6, 1902.

General Description.

This township is composed of sandy land and loam, with sandstone croppings along the ravines, canons and ridges, along which Cedar and pinion timber is found.

The township is generally covered by a luxuriant growth of nutritious grasses, making it an excellent range.

The township is watered by Hatch Wash, Little water and Three Mile Creeks.

There are no settlers in this Tp.

Hatch Ranch has been abandoned.

There is no mineral found in this township.

Herbert D. Page,
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 arking the lines and corners described in the foregoing field notes of the survey of ..... owing the respective capacities in which they acted:

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

Infinal affidavits see book Q 1265 R 23 E

FINAL OATH OF ASSISTANTS.

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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

Infinal affidavits see book Q 1265 R 23 E

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

SEAL

6—151

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

.....

.....

.....

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

.....

United States Deputy Survey

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

Salt Lake City, Utah, Nov 25, 1902 189

The foregoing field notes of the survey of the subdivisional lines of Township 29 South Range 22 East of the Salt Lake Base and Meridian, Utah

.....

.....

.....

.....

executed by Hubert S. Page under his contract No. 247, dated November 11, 1901, 189 , having be critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson

United States Surveyor G

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

.....

United States Surveyor Genera

4—679.

P.

BOOK A-284

FIELD NOTES

OF THE SURVEY OF THE

South and West boundaries of Township No. 26 South Range No. 23 East

Of the Salt Lake base and Meridian,

In the state of Utah

AS SURVEYED BY

Hubert D. Page, United States Deputy Surveyor,

Under his Contract No. 247, dated November 11th, 1901

Survey commenced March 7th, 1902

Survey completed March 10th, 1902

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S- Bdry-high 3-00-00 ✓

W- " " 5-51-40 ✓

Closings — 28-30 ✓

BOOK A-284

NAMES AND DUTIES OF ASSISTANTS.

Peter Meyer, chainman
Jay Morrison, "
Joseph Rasmussen, mound man
Vern Lyman airman
John Baker flagman

For preliminary affidavits see book F Tp 31 S R 23 E

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Volume
#
R0284

BOOK A-284

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainm*

....., *Chainm*

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

.....

SEAL

.....

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

.....

....., *Mound*

....., *Moundm*

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

.....

SEAL

.....

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

.....

....., *Ax*

....., *Ax*

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

.....

SEAL

.....

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

....., *Flag*

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

.....

SEAL

.....

South bdy. of T. 26 S., R. 23 East.

Survey Commenced.
March 7th 1902.
and executed with a W. and L. E. Gurley light mountain transit No. — 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 viniers of the latitude and declination arcs.

The instrument was examined and tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah.
September 28th 1901.

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

At the established 1/4 sec. cor. of sec. 34 on the S. bdy. of the Tp.
Latitude 38°30'23" N. Long 109°24' W.
which is a sand stone 9x8x2 ins. above ground firmly set, and

South bdy. of T. 26 S., R. 23 E., continued.

Chains.	
	marked and witnessed as described by the Surveyor General. At 4 p. m., l. m. t., I set off 38° 30' N. on lat. arc; 5° 18' S. on decl. arc; and determine a true meridian with the solar, and mark a point thereof on a stone, set firmly in the ground 5 chs. N. of the Cor. At 8h 19m p. m., l. m. t., I observe Polaris at Western elongation, in accordance with Manual of instructions, and mark a point in the line thus determined, on a plug driven in the ground, 5 chs. N. of my station. March 7, 1902.
	March 8th 1902. At 7.45 a. m., l. m. t., I lay off the Azimuth of Polaris 1° 33' to the E., and mark the true meridian thus determined, by cutting a small groove in the stone set on which the true meridian falls 0.4 ins. W. of the mark determined by the solar. At 8 a. m., l. m. t., I set off 38° 30' N. on lat. arc; 5° 03' S. on decl. arc; and mark a point in the true 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. W. of the true

South bdy. of T. 26 S, R. 23 E, Continued.

Chains.

Meridian established by the Polaris observation

The solar apparatus by p.m. and a.m. observations, defines positions of true Meridians, respectively about 21" E. and 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 a.m. is N. 15°10' W.; the angle thus determined, reduced by the table p. 100, gives, the mean Mag. dec. 15°06' E.

From the cor. already described I run West on a random line and

at 240. chs. Intersect 1/4 sec. cor. on S. bdy. of sec. 31. which is a sandstone 9x8x4 ins. above ground, marked as described by the Surveyor General.

Therefore, I begin at the 1/4 sec. cor. on S. bdy. of sec. 34 and this Tp.

South bdy. of T. 36 S., R. 73 E., continued

Chains.	
	Thence Run
	West on S. bdy. of Tp. bet. secs. 3 and 34
	Descending over broken Mesa, through heavy cedar and pinion timber
4.10	Top of Rim rock, edge of Mesa Cliff 300 ft. high, bears N. W. and S. E. Leave timber.
	Descend over broken sandstone ledges and boulders.
40.00	450 ft. below Rim rock.
	Falls on sandstone ledge
	Mark cross on ledge for Cor. of secs. 3, 4, 33 and 34 with 3 notches on the E. and W. sides.
	Raised a mound of stone 2 ft. base, 1½ ft. high W. of Cor.
	Pits impracticable.
	Land, Mountainous
	Soil, stony. 4th rate.
	Timber, cedar and pinion.
	Mountainous land.
	40.00 chs.
	West on S. bdy. of Tp. bet. secs. 4 and 33.
	Descend over broken sandstone ledges and boulders, through scattering cedar and pinion timber
12.00	Dry run, course N. W.
22.00	Spur, S. E. N. W.
32.00	Ravine 150 ft. deep, course N. W.
38.00	Ridge, bears N. E. and S. W.
40.00	Set a sandstone 30 x 16 x 3 ins. 23 ins. in the ground and mound of stone for 1/4 sec. Cor. Marked 1/4 S. on N. face.

South bdy. of T. 76 S., R. 73 E. continued.

Chains	
	From which a cedar 4 ins. in diam. bears S. 10° W. 40 lks. dist. marked 1/4 S. 4 B.T.
	a pinion 10 ins. in diam. bears N. 54° W. 15 lks. dist. marked 1/4 S. 33 B.T.
80.00	750 ft. below 1/4 sec. cor. set a sand stone 24 x 16 x 3 ins. 18 ins. in the ground and mound of stone, for cor. of secs. 4, 5, 32 and 33. Marked with 4 notches on E. and 2 notches on W. edges. From which a cedar 6 ins. in diam. bears N. 37° E. 54 lks. dist. marked T. 76 S. R. 73 E. S. 33 B.T.
	a pinion 8 ins. in diam. bears S. 54° E. 15 lks. dist. marked T. 77 S. R. 73 E. S. 4 B.T.
	a cedar 6 ins. in diam. bears S. 42° W. 103 lks. dist. marked T. 77 S. R. 73 E. S. 5 B.T.
	a pinion 6 ins. in diam. bears N. 75° W. 22 lks. dist. marked T. 76 S. R. 73 E. S. 32 B.T.
	Land, Mountainous and broken
	Soil, stony, 4th rate.
	Timber, cedar and pinion.
	Mountainous land, 80.00 chs.
	March 8th 1902.
	At this cor. I set off 5° 00' S. on decl. arc; and at 0h 11m p.m. l. m. t, observe the sun on the meridian, the resulting Lat. is 38° 30' N.

West
On S. bdy. of Tp.
bet. secs. 5 & 32

South bdy. of T. 26 S., R. 23 E., continued.

Chains.	
	Descending over broken land, through scattering Cedar and pinion
12.00	Begin abrupt descend over broken sand stone ledges bear N. and S.
33.40	Perpindicular sand stone ledges 175 ft. high. bear N. and S.
33.50	Foot of cliffs, bear N. and S.
	Enter bottom of Cañon dense sage and thick brush.
39.80	Mill creek, 10 lks. wide, pure water flows N. W. in bottom of Cañon. 750 ft. deep. ascend.
40.00	Set a sand stone 18 x 10 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 S. on N. face; raised a mound of stone 2 ft. base, 1 1/2 ft. high, N. of Cor.
	Pits impracticable.
47.00	Leave Cañon
	Foot of perpindicular cliffs. 175 ft. high, bear N. and S.
	Leave brush.
68.85	Top of ridge, bears N. W. and S. E. 75 ft. high.
	The cor. point will fall on land subject to slide.
	therefore.
	Set a sandstone 18 x 12 x 6 ins. 12 ins. in the ground and mound of stone, for witness cor. to Secs. 5, 6, 31 and 32.
	Marked W. C. on N. E. face. with 5 notches on E. and 1 notch on W. edges.
	raised a mound of stone 2 ft. base 1 1/2 ft. high W. of Cor.

South bdy. of T. 26 S., R. 23 E. continued.

Chains.	
	Pits impracticable
	Descend abruptly over
	broken ledges and cliffs.
	bear N. & S.
80.00	Set a sand stone 15x10x4 ins.
	10 ins. in ground and mound
	of stone for cor. of secs.
	5 6 31 and 32.
	Marked with 5 notches on E.
	and 1 notch on W. edges.
	raised a mound of stone
	2 ft. base, 1½ ft. high W.
	of Cor.
	Pits impracticable
	Land mountainous
	Soil stony 4th rate.
	Timber, Cedar and pinion.
	Mountainous land,
	80.00 chs.
	West.
	On S. bdy. of T.
	bet. secs. 5 and 31.
	Descending over broken
	sand stone ledges and
	boulders.
15.00	Foot of ledges
	bear N. and S.
40.00	500 ft. below Sec. Cor.
	Intersect 1/4 sec. cor. on
	S. bdy. sec. 31.
	Previously described.
	Land, mountainous
	Soil, stony 2nd and 4th rate.
	No timber.
	Mountainous land,
	40.00 chs.

March 8th 1902.

The eastern two miles of the S. bdy. cannot be

West bdy. Tp. 26 S, R. 23 East.

Chains.

March 9th 1902

At 9 a. m., l. m. t., I set off 38°31' N. on lat. arc. 4°39' S. on decl. arc; and determin a true meridian with the solar, at the 1/4 sec. cor. on N. bdy of Tp. bet. secs. 31 and 36, which is a sandstone 8×8×6 ins. above ground, marked as described by the Surveyor General.

Thence I run. North
On N. bdy. of Tp.
bet. secs. 31 and 36.
Ascend over broken land,
Sand, stone ledges and boulders.

40.00 Top of sandy spur. projects S.W. 500 ft. above 1/4 sec. cor.
Set a porphyry boulder. 18×10×8 ins. 12 ins. in the ground, for cor. of secs. 25, 30, 31 and 36.
Marked with 5 notches on N. and 1 notch on S. edges.
Raised a mound of stone 2 ft. base 1 1/2 ft. high. W. of cor.
Pits impracticable.
A pinion 10 ins. in diam. bears N. 55° W. 27 lks. dist. Marked T. 26 S, R. 22 E, S. 25 B.T.
No other available bearing trees.
Sand, broken
Soil, stony 4th rate.
No timber
Mountainous land,

40.00 chs.

West bdy. of T. 26 S., R. 23 E. Continued.

Chains.	
	North
	On West bdy. of Tp.
	bet. secs. 25 and 30.
	Descending over broken
	land, sand stone ledges.
4.00	Ravine 150 ft. deep.
	course W. ascend.
11.00	Top of ledges,
	bears E. & W.
12.50	Top of ridge, 20 ft above sec.
	cor. bears E. and W. descend.
20.20	Good road, bears N.W. and S.E.
37.00	Dry run; course W.
40.00	Set a porphyry stone 16x10x6
	ins. 11 ins. in the ground, and
	mound of stone. for 1/4 sec.
	cor. marked 1/4 S. on W. face,
	raised a mound of stone 2 ft.
	base, 1½ ft. high. W. of cor.
	Pits impracticable.
55.00	Good road, bears E. and W.
76.75	Begin abrupt descent over
	broken ledges and boulders, bears
	N.W. and S.E.
80.00	Falls on sand stone ledge.
	Mark cross on ledge for
	cor. of secs. 19, 24, 25 and 30.
	with 2 notches on S. and 4 notches
	on N. side,
	raised a mound of stone 2 ft.
	base, 1½ ft. high W. of cor.
	Pits impracticable.
	Land, Mountainous
	Soil, Stony, 4th rate.
	No timber
	Mountainous land,
	80.00 chs.

West bdy. of T. 26 S, R. 23 E, continued.

Chains	
	March 9th 1902
	At this cor. I set off 4°36' S on decl. arc: and at 0h 11m p.m. l.m.t, observe the sun on the meridian the resulting lat. is 38°32' N.
	North
	On W. bdy. of Tp.
	bet. secs. 19 and 24.
	Descending over broken sand stone ledges and cliffs bear N.W. and S.E.
20.00	J.H. Webb's log house East about 20 chs.
32.70	abrupt descent bears N.W. and S.E.
38.00	Foot of abrupt descent bears N.W. and S.E. Enter cultivated field.
40.00	Set a sand stone 24x12x9 ins. 18 ins. in the ground and mound of stone, for 1/4 sec. cor. Marked 1/4 S on W. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable
40.75	Mill creek, 10 lks. wide pure water flows N.W. in Cañon 750 ft. deep. ascend.
42.75	Road, bears N.W. and S.E.
	Leave cultivated land, ascend over broken land.
48.00	Top of perpindicular ledge 500 ft high, bears N.W. and S.E.
56.00	Ridge bears N.W. and S.E.
65.00	Ravine 250 ft deep. course W. ascend.

West bdy. of T. 26 S., R. 23 E., Continued.

Chains.	
80.00	Set a sandstone 24x10x4 ins. 18 ins. in the ground, for cor. of secs. 13, 18, 19, and 24. Marked with 3 notches on N. and S. edges, raised a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Land broken, Soil, stony 4th rate. No timber Mountainous land, 80.00 chs.
	North on West bdy. of Tp. bet. secs. 13 and 18. Ascending over broken land, scattering cedar and pinion
40.00	set a sand stone 24x12x3 ins. 18 ins. in the ground for 1/4 sec. cor. Marked 1/4 S. on W. face, raised a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
46.50	Ridge, 300 ft. above sec cor. bears N.W. and S.E. descend.
66.00	Bottom of Cañon 250 ft. deep. Course W. ascend
80.00	set a porphyry 20x8x6 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. edges. raised a mound of stone 2 ft. base, 1½ ft. high

West bdy. of T. 26 S., R. 23 E. contin

Chains.

W. of Cor.
Pits impracticable
Land, mountainous
Soil, stony 4th rate.
Timber, Cedar and Spinion.
Mountainous land,
80.00 chs.
Mch 9th 1902.

Mch. 10th 1902.
At 8 a.m., l.m.t., I set off 38°34' N. on lat. arc: 4°15' S 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
On West bdy. of Tp.
bet. secs. 7 and 12.
Descending over broken ground, through scattering Cedar and Spinion.

1.00 Bottom of Cañon 200 ft deep course W. ascend.

9.50 Point of high sand stone knob. projects N.W. descend over broken sand stone ledges bear E. and W.

31.00 North fork of Mill Creek 6 lks. wide pure water flows West in Canon 500 ft deep. ascend.

40.00 Set a sand stone 18 x 12 x 6 ins. 12 ins. in the ground and mound of stone. for 1/4 sec. Cor. marked 1/4 S. on W. face, raised a mound of stone 2 ft. base 1 1/2 ft. high W. of Cor.

West bdy. of T. 26 S., R. 23 E. continued.

Chains.	
	Pits impracticable
45.90	East end of Spur of high bluff 800 ft. above creek. bears W. and projects E. descend.
54.00	Ravine 250 ft deep course W.
69.00	spur, projects W.
79.00	Rill creek. dry. in Canon 400 ft deep. course S. W. ascend.
80.00	Falls on sandstone ledge bears N. E. and S. W. Mark cross on ledge, for cor. of secs. 1, 6, 7 and 12. with 5 notches on S. and 1 notch on N. sides. raised a mound of stone 2 ft. base, 1½ ft. high W. of Cor. Pits impracticable. Land, broken Soil, stony Timber, cedar and pinion. Mountainous land.
	80.00 chs.
	North On West bdy. of T. bet. secs. 1 and 6. Ascending over broken ledges and boulders, bear N. E. and S. W. through scattering cedar and pinion.
40.00	set a sand stone 20×12×3 ins. 15 ins. in the ground for 1/4 sec. cor. Marked 1/4 S. on West face, raised a mound of stone 2 ft. base, 1½ ft. high

West bdy of T. 26 S., R. 23 E. Conclu

Chains	
	West of Cor.
	Pits impracticable
68.70	Road, Lasal Mt. to Moab
	bears N.E. and S.W.
72.10	Dry wash. 5x10 ft.
	drains S.W.
86.00	Top of ledges 1000 ft above
	creek.
	bear E. and W.
91.40	Intersect E. and W. line.
	5th Standard parallel South.
	28.30 chs. N. of the Standard
	Cor. of secs. 31 and 36.
	T. 26 S., Rs. 22 and 23 E.
	which is a sandstone 12x12x8
	ins. above ground, marked
	and witnessed as described
	by the Surveyor General.
	Set a sandstone 16x12x6
	ins. 11 ins. in the ground, for
	Closing Cor. to T. 26 S., Rs. 22 and 23
	E.
	Marked C.C. on S. with 6
	grooves, on S.E. and W. faces.
	Raised a mound of stone
	2 ft. base, 1½ ft. high. S. of Cor.
	Pits impracticable.
	Land, broken.
	Soil, stony 4th rate,
	Timber, cedar and pinion.
	Mountainous land, 91.40 chs.

Mch 10th 1902.

For General discription see subdivisions of this Tp.

Hubert D. Page.

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PAGE

BOOK A-284

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, 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 N. and S. bdy. of T. 29 S. and S. and W. bdy. of Tps. 26 and 31 S. R. 23 E. of the Salt Lake base and Meridian, in the State of Utah, showing the respective capacities in which they acted:

Peter Meyer, Chainman.
Jay Morrison, Chainman.
Joseph Rasmussen, Moundman.
, Moundman.
Vern Lyman, Axman.
, Axman.
John Baker, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, United States Deputy Surveyor, in surveying all those parts or portions of the N. and S. bdy. of T. 29 S. and the S. and W. bdy. of Tps. 26 and 31 S., R. 23 E. of the Salt Lake base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by 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

Peter Meyer, Chainman.
Jay Morrison, Chainman.
Joseph Rasmussen, Moundman.
, Moundman.
Vern Lyman, Axman.
, Axman.
John Baker, Flagman.

Subscribed and sworn to before me this 18th day of March, 1902

Hubert D. Page
U.S. Deputy Surveyor

SEAL

6—151

2 282

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page United States Deputy Surve[illegible] solemnly swear that, in pursuance of a contract received from Edward H. Ander[illegible] United States Surveyor General for Utah, bearing date 11th day of November, 1901, I have well, faithfully, and truly, in m[illegible] proper person, and in strict conformity with the instructions furnished by the United States S[illegible] General for Utah, the Manual of Surveying Instructions, and the laws United States, surveyed all those parts or portions of the N. and S. bdy. of [illegible] and the S. and N. bdy. of Ps. 26 and 31 S., R. 23 E.

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

Hubert D. Page
United States Deputy Su[illegible]

Subscribed by said Hubert D. Page, and sworn to before me this 25th day of March, 1902

Edward H. Ander[illegible]
U. S. Surveyor-Ge[illegible]
for Ut[illegible]

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov. 25 19[illegible]

The foregoing field notes of the survey of the South & West Boundar[illegible] Township 26 South Range 23 East of the Salt La[illegible] Base & Meridian, Utah

executed by Hubert D. Page under his contract No. 247, dated November 11, 1901, 189[illegible], havi[illegible] critically examined, and the necessary corrections and explanations made, the said field notes, a[illegible] surveys they describe, are hereby approved.

Edward H. Ander[illegible]
United States Surveyor G[illegible]

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

United States Surveyor G[illegible]

Salt Lake Base, 1901.

EBL

4—679.

9.

BOOK A-284

FIELD NOTES

OF THE SURVEY OF THE

Subdivision

of

Township No. 26 South

Range No 23 East

Of the Salt Lake base and Meridian,

In the state of Utah.

AS SURVEYED BY

Hubert D. Page, United States Deputy Surveyor,

Under his Contract No. 247, dated November 11th, 1901

Survey commenced March 11th, 1902

Survey completed March 16th, 1902.

6—151

high 23-67-77

2 28

BOOK A.2 8

NAMES AND DUTIES OF ASSISTANTS.

Peter Meyer Chainman

Jay Morrison "

Joseph Rasmussen Mound man

Vern Tyman Axman

John Baker Flag man

For preliminary affidavits See book B. Tp 14 S. R 24 E

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BOOK A-284

INDEX DIAGRAM.

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

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

.....*Chain*..

.....*Chain*

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

.....

SEAL

.....

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

.....

.....*Mound*..

.....*Mound*..

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

.....

SEAL

.....

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

.....

.....*Ax*

.....*Axe*

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

.....

SEAL

.....

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

.....*Flag*

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

.....

SEAL

.....

6—151

Subdivision of T. 26 S., R. 23 E.

Survey Commenced.
March 11th 1902.
and executed with the instrument described in book "P" of this survey.

I know from recent test. at the 1/4 cor. on S. bdy. of Tp. and sec. 34.
and recorded in book "P." of this survey. the instrument to be in adjustment.

At 8 a.m., l.m.t., I set off 38°30' N. on lat. arc; 3°52' 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.
Previously described.
Thence I run
N. 0°02' W.
bet. secs. 33 and 34.
Ascending over broken sand stone ledges and boulders bear N. W. and S. E.
through scattering cedar and pinion timber.

40.00 Set a sand stone 16 x 10 x 4 ins. 11 ins. in the ground and mound of stone, for 1/4 sec. cor. marked 1/4 S on W. face, raised a mound of stone 2 ft base, 1 1/2 ft. high W. of Cor.
Pits impracticable.

72.50 Foot of perpendicular ledges 300 ft. high. bears N. W. and S. E.

74.00 Top of ledges. Rim rock bears N. W. and S. E.

Subdivision of T. 26 S., R. 23 E. continued.

Chains	
80.00	Intersect the cor. of secs. 27, 28, 33, and 34. which is a sand stone 10x 8x5 ins. above ground firmly set, and marked and witnessed as described by the Surveyor General, Sand, broken, Soil, stony 4th rate. Timber Cedar and pinion. Mountainous land, 80.00 chs.
	From the cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp. Previously described Azim. N. 0°03' W. bet. secs. 32 and 33. Ascend over broken sandstone ledges, bear N.W. and S.E. through scattering Cedar and pinion timber.
10.00	Ravine, 200 ft deep, course W. ascend.
32.00	Ridge, bears N.W. and S.E. descend.
34.50	Ravine 200 ft deep, course N.W. ascend.
40.00	Set a sand stone 20x10x8 ins. 15 ins. in the ground, for 1/4 Sec. Cor. marked 1/4 S on W. face, from which a pinion 3 ins. in diam. bears N. 14° W. 41 lks. dist. Marked 1/4 S. 32 B.T. a Cedar 5 ins. in diam. bears S. 63° E. 10 lks. dist. marked 1/4 S. 33 B.T.

Subdivision of T. 26 S., R. 23 E., Continued.

Chains.	
44.00	Spur, projects. W. descend.
62.00	Ravine 200 ft deep. course W. ascend
80.00	Set a sand stone 19 x 12 x 5 ins. 14 ins. in the ground and mound of stone, for Cor. of secs 28, 29, 32 and 33. Marked with 1 notch on S. and 4 notches on E. edges, raised a mound of stone, 2 ft. base, 1½ ft. high W. of Cor. Pits impracticable. Land, broken Soil, stony. 4th rate. Timber, cedar and pinion. Mountainous land, 80.00 chs.
	East on a random line, bet. secs. 28 and 33.
40.00	set temp. ¼ sec. cor.
80.10	Intersect N. and S. line 9 lbs. 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. Descending through scattering cedar and pinion.
5.50	Edge of Mesa, top of rim rock, perpendicular Cliffs 300 ft. high, bear N. W. and S. E. Abrupt descent over broken ledges.
40.05	Set a sand stone 15 x 10 x 4 ins. 10 ins. in the ground for ¼ sec. cor. Marked ¼ S. on

Subdivision of T. 26 S., R. 23 E., Continued

Chains	
	N. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high. N. of Cor. Pits impracticable.
80.10	The cor. of secs. 28, 29, 33 and 34. 600 ft. below Rim rock. Sand, broken. Soil, stony, 4th rate. Timber, cedar and pinion. Mountainous land, 80.10 chs.
	Mth 11th At this cor. I set off 3° 49' S on decl. arc: and at 0h 10m p m. l. m. t., observe the sun on the meridian the resulting lat. is 38° 31' N.
	N. 0° 03' W. bet. secs. 28 and 29. Ascending over broken sand-stone ledges. Scattering cedar and pinion timber
18.00	Spur, projects N. W.
31.00	Ravine 200 ft. deep. course N. W.
40.00	Set a sand stone 17 x 10 x 6 ins. 12 ins in the ground, for 1/4 sec. cor. marked 1/4 S. on W. face, From which a cedar 2 ins. in diam bears N. 85° E. 1.02 chs dist, marked 1/4 S. 28 B.T. A pinion 4 ins. in diam. bears W. 56 lks. dist. marked 1/4 S. 29 B.T.
64.00	Spur, projects N. W. descend.
80.00	Set a sand stone 18 x 12 x 3 ins.

Subdivision of T. 26 S., R. 23 E. continued.

chains	
	12 ins. in mound of stone and earth. for cor. of secs. 20, 21, 28 and 29. marked with 2 notches on S. and 4 notches on E. edges. raised a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land broken, Soil, stony, 4th rate. Timber, scattering Cedar and pinion. Mountainous land, 8.00 chs.
	It is impossible to extend a line East, off this cor. on account of perpendicular sand stone ledges bearing N. W. and S. E. and extending to the foot of the Rim rock which is about 30 chs. E. and 500 ft high.
	N. 0°03' W. bet. secs. 20 and 21. Descending over broken Sand stone ledges. through scattering cedar and pinion.
21.00	Ravine 250 ft. deep.
	Course W. ascend
40.00	On spur projects N. W. West of highest point of Mesa. Rim Rock. Set a sand stone 16 x 14 x 3 ins. 11 ins. in the ground for 1/4 Sec. cor. Marked 1/4 S. on W.

Subdivision of T. 26 S., R. 23 E. continued

Chains	
	face, raised a mound of stone 2 ft. base, 1½ ft. high W. of Cor.
	Pits impracticable.
	Descend over badly broken land.
53.00	Cañon 500 ft deep. dry course N. W. ascend.
80.00	Set a sand stone 18 x 12 x 6 ins. 12 ins in the ground and mound of stone, for Cor. of secs. 16, 17, 20 and 21.
	Marked with 3 notches on the S. and 4 notches on E. edges. raised a mound of stone 2 ft. base, 1½ ft. high W. of Cor.
	Pits impracticable.
	Land, broken
	Soil, stony 4th rate.
	Timber, Cedar and pinion.
	Mountainous land,
	80.00 chs.
	March 11th 1902.

Mch. 12th 02. At 8 a.m. l.m.t., I set off 38°33' N. on lat. arc; 3°28' S. on decl. arc; and determine a true meridian with the solar at the Cor. of secs, 16, 17, 20 and 21.

East

bet. secs. 16 and 21.

Ascending over broken land and ledges

Through scattering cedar and

Subdivision of T. 26 S., R. 23 E., Continued.

Chains.	
	Pinion timber.
26.50	Top of bluff 500 ft. high bears N. W. and S. E. descend.
40.00	Set a sand stone 15 x 12 x 3 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 S on N. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of Cor.
	Pits impracticable
58.00	Cañon 500 ft deep, dry course N. W.; ascend.
80.00	Set a sand stone 20 x 12 x 3 ins. 13 ins. in the ground and mound of stone, for cor. of secs. 15, 16, 21 and 22, marked with 3 notches on the S. and E. edges, with 26 S. on N. E. and 23 E on S. E. faces. raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of Cor.
	Pits impracticable.
	Land, broken.
	Soil, stony 4th rate.
	Timber, cedar and pinion.
	Mountainous land
	80.00 chs.

Rim rock is east about 11 chs. the land intervening is impassable, and the lines North and South are same, being a series of broken cliffs and ledges.

Subdivision of T. 26 S. R. 23 E. continued

Chains	
	From the cor. of secs. 16, 17, 20 and 21.
	Trun
	N. 0°03' W.
	bet. secs. 16 and 17.
	Ascend over broken sandstone ledges bearing N. W. and S. E. through scattering Cedar and pinion.
23.00	Point of bluff, 500 ft. high spur, projects N. W. descend.
31.00	Cañon 500 ft. deep.
	Course W. ascend.
40.00	Set a sand stone 15 x 12 x 3 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 S. on W. face, raised a mound of stone 2 ft. base, 1 1/2 ft high W. of Cor.
	Pits impracticable.
80.00	Top of spur, Ridge, bears E. and W. projects W.
	Set a sand stone 15 x 12 x 3 ins. 10 ins. in the ground for Cor. of secs. 8, 9, 16 and 17.
	Marked with 4 notches on the E. and S. edges.
	raised a mound of stone 2 ft base, 1 1/2 ft. high, W. of Cor.
	Pits impracticable.
	Land, broken.
	Soil stony. 4th rate.
	Timber, Cedar and pinion
	Mountainous land,
	80.00 chs.
	Mch. 12th 1902. At this cor. I set off 3°25' S on decl. arc; and at 0h10m p.m. l. m. t. observe

Subdivision of T. 26 S., R. 23 E. Continued.

Chains.	
	The sun on the meridian the resulting lat. is 38°34'N.
	East bet. secs. 9 and 16. Descending over broken sand stone ledges bear N. and S. through scattering cedar and pinion.
19.00	Ravine 100 ft deep course N. W. ascend.
40.00	Set a sand stone 16 x 13 x 3 ins. 11 ins. in the ground, for 1/4 sec. cor. marked 1/4 S. on N. face, raised a mound of stone 2 ft. base, 1½ ft. high N. of cor. Pits impracticable. Land, broken, Soil, stony 4th rate. Timber, cedar and pinion. Mountainous land 40.00 chs. On account of perpendicular cliffs and ledges it is impossible to run this line East to the cor. of secs 9, 10, 15 and 16.
	From the cor. of secs. 8, 9, 16 and 17. Run N. 0°03' W. bet. secs. 8 and 9. Descend over broken ledges and boulders.
40.00	In bottom of Cañon 400 ft deep. Course W.

Subdivision of T. 26 S., R. 23 E. continued

Chains.

Set a sand stone 18x14x3 ins. 12 ins. in the ground and mound of stone, for 1/4 sec. cor. marked 1/4 S. on W. face, raised a mound of stone 2 ft. base, 1½ ft. high W. of Cor.
Pits impracticable
Ascend

80.00 Spur, projects N. W. 500 ft. above 1/4 sec. cor. set a sand stone 16x12x5 ins. 11 ins. in the ground and mound of stone for cor. of secs. 4, 5, 8 and 9. marked with 4 notches on E. and 5 notches on S. edges. raised a mound of stone 2 ft. base, 1½ ft. high W. of Cor.
Pits impracticable.
Land, broken
Soil, Stony 4th rate.
Timber Cedar and pinion
Mountainous land,

80.00 chs.

March 12th 1902.

North and East
are perpendicular Cliffs and ledges, it is impossible to continue this line N. or E.

March 13th 1902.
At 8 a. m., L. M. T., I set off 38° 30' N. on Lat. arc; 3° 05' S on decl. arc; and determined a true meridian with the sun, at the cor. of secs. 5, 6, 31 and 32, on S. bdy.

Subdivision of T. 26 S., R. 23 E., continued.

Chains.	
	of Tp.
	N. 0°03' W.
	bet. secs. 31 and 32
	ascending over broken ledges,
	through scattering cedar and pinion.
29.00	Ridge. bears N. W. and S. E.
	300 ft above sec. cor. descend.
40.00	on Ridge bears N. & S.
	Set a sand stone 18 x 12 x 5 ins.
	12 ins. in the ground, for
	1/4 sec. cor. marked 1/4 S. on W.
	face. raised a mound of
	stone 2 ft. base, 1 1/2 ft. high
	W. of cor.
	Pits impracticable.
51.00	N. End of ridge.
	and Top of perpindicular cliffs
	400 ft high. bears N. 15° W.
	and S. 15° E.
61.00	Mill creek, 12 lks. wide,
	pure water flows N. 20° W.
	in bottom of cañon 700 ft
	deep.
	ascend.
80.00	Set a sand stone 22 x 12 x 5 ins.
	16 ins. in the ground and
	mound of stone, for cor. of
	secs. 29, 30, 31 and 32.
	marked with 2 notches on
	the E. and 1 notch on S.
	edges. raised a mound
	of stone 2 ft. base, 1 1/2 ft.
	high, W. of cor.
	Pits impracticable
	Land, broken
	Soil stony 2nd and 4th rate.
	Timber cedar and pinion.
	Mountainous land, 80.00 chs.

Subdivision of T.26S., R.23E. continued

Chains	
	East on a random line bet. secs. 29 and 32.
40.00	set temp. 1/4 sec. cor.
80.04	Intersect N. and S. line 5 lks. S. of the cor. of secs. 28, 29, 32 and 33.
	Thence I run S 89°58' W. on a true line bet. secs. 29 and 32.
	Descend over broken ledges and boulders, through scattering cedar and pinion timber
12.00	Ravine, 15 ft. deep course N. W. ascend,
40.00	set a sand stone 36 x 14 x 3 ins. 27 ins. in the ground and mound of stone, for 1/4 sec. cor. marked 1/4 S. on N. face, raised a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	Pits impracticable.
45.00	Ridge bears N. and S. descend.
59.00	Dry run course S. W.
67.00	Ridge, bears N. and S. descend.
76.50	Top of perpendicular ledges 100 ft. high sandstone. bear N. W. and S. E.
80.04	The cor. of secs. 29, 30, 31 and 32.
	Land, broken, Soil, sandy and stony, 3rd rate. Timber, cedar and pinion Mountainous land,
	80.04 chs.

Subdivision of T. 26 S., R. 23 E. continued.

Chains.	
	West on a random line bet. secs. 30 and 31.
40.00	set temp. 1/4 sec. cor.
77.64	Intersect W. bdy. of Tp. at the cor. of secs. 25, 30, 31 and 36.
	Thence Jun. East on a true line bet. secs. 30 and 31. Ascending over broken sandstone ledges. through scattering cedar and pinion timber.
37.00	Top of mountain ridge, bears N. W. and S. E. descend.
37.64	set a gravel boulder 22 x 8 x 4 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 S. on N. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high. N. of Cor. Pits impracticable. A cedar 8 ins. in diam. bears N. 80° W. 22 lks. dist marked 1/4 S. 30 B.T. No other suitable trees within limits.
57.00	Begin abrupt descent. bears N. W. and S. E.
70.00	Foot of steep descent Enter bottom, dense sage and birch brush, bears N. W. and S. E.
71.75	Mill creek, 12 lks. wide, pure water flows N. W. in canon 1000 ft deep. ascend.
77.64	The cor. of secs. 29, 30, 31 and 32.

BOOK NO.

Subdivision of T. 26 S., R. 23 E. continued.

Chains	
	Land, broken Soil, stony 3rd and 4th rate. Timber, cedar and pinion Mountainous land, 77.64 chs.
	MCN 13th 1907. At this cor. I set off 3° 02' S. on decl. att.; and at 0h 10m p.m. L. m. t., observe the sun on the meridian; the resulting lat. is 38° 31' N.
	N. 0° 03' W. bet. secs. 29 and 30. Ascend over broken land,
4.25	Foot of perpendicular ledges 100 ft high, bear E. and W.
4.50	Top of ledges, Enter scattering cedar and pinion timber, bears N. W. and S. E.
11.00	Ridge, bears N. W. and S. E.
20.00	Ravine 150 ft deep, course N. W.
40.00	Fallen sand stone ledge. Mark cross on ledge, for 1/4 sec. cor. with 1/4 S. on W. side, raised a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
45.00	Top of sandy ridge, bears N. W. and S. E. descend.
63.00	Ravine 75 ft. deep. Course N. E. ascend.
65.00	Spur, projects N. E. descend.
77.00	Junction of Ravines, 250 ft deep. from E. and S. E. Course N. W.
80.00	Set a sand stone 20 x 10 x 4 ins.

Subdivision of T. 26 S., R. 73 E. continued.

Chains.	
	15 pins. in the ground for Cor. of secs. 19, 20, 29 and 30. Marked with 5 notches on the E. and 2 notches on the S. edges, raised a mound of stone 2 ft. base, 1½ ft. high N. of Cor. Pits impracticable. Land broken Soil, stony 4th rate. Timber, cedar and pinion. Mountainous land, 80.00 chs. March 13th 1907.
	March 14th 1907. At 8 a.m. l.m.t., I set off 38°32' N. on lat. arc 24' S. on decl. arc: and determine a true meridian with the solar at the cor. of secs. 19, 20, 29 and 30. Thence Run, N. 89°58' E. on a random line, bet. secs. 20 and 29.
40.00	set temp. 1/4 sec. cor.
80.06	Intersect N. and S. line 7' bs. N. of the cor. of secs. 20, 21, 28 and 29. Thence Run N. 89°59½' N. on a true line bet. secs. 20 and 29. Descend over broken land, ledges, and scattering cedar and pinion timber
19.00	Ravine 150 ft deep. course N. N. ascend.

Subdivision of T. 26 S., R. 23 E. continued.

Chains.	
40.03	Set a sandstone 16 x 12 x 4 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 S. on N. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high. N. of Cor. Pits impracticable.
63.00	Spur Ridge, bears N. E. and S. W.
72.00	Cañon 250 ft. deep. course S. W. ascend.
80.06	500 ft below cor. of secs. 20, 21, 28 and 29. the cor. of secs. 20, 19, 29 and 30. Land, broken, soil, stony 4th rate. Timber, cedar and pinion Mountainous land, 80.06 chs.

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

40.00	set temp. 1/4 sec. cor.
77.56	Intersect W. bdy. of Tp. 3 lks. S. of the cor. of secs. 13, 18, 19 and 24. Thence, Irun. S 89°59' E. on a true line bet. secs. 19 and 30 Descend over broken ledges bear N. and S. through scattering cedar and pinion
25.00	Mill creek 10 lks. wide, pure water flows N. in cañon 800 ft. deep. ascend.
34.00	Top of Cliffs 250 ft high bear N. W. and S. E.
37.56	Set a sand stone 18 x 12 x 4 ins. 12 ins in the ground for 1/4 cor. marked 1/4 S. on N. face,

Subdivision of T. 26 S., R. 23 E. continued.

Chains	
	raised a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	Pits impracticable over sandy land.
62.00	Top of perpindicular sand stone cliff, 150 ft. high. bear N. W. and S. E.
68.00	Cañon 75 ft deep. course N. W. ascend.
77.56	The cor. of secs. 19, 20, 29 and 30. Sand, broken. Soil, stony 4th rate. Timber, cedar and pinion. Mountainous land. 77.56 chs.
	March 14th 1902. At this cor. I set off 2°38' S. on decl. arc; and at 0h 10m p.m. l. m. t., observe the sun on the meridian the resulting lat. 38°32' N.
	N. 0°03' W. bet. secs. 19 and 20. Ascending over broken sandstone ledges. through scattering cedar and pinion timber.
12.00	Ridge, bears N. W. and S. E. descend.
20.00	Ravine, 75 ft deep. course W. ascend.
34.00	Sand stone ledge 40 ft high. bears N. E. & S. W.
40.00	Set a sand stone 20 x 20 x 3 ins. 15 ins. in the ground and mound of stone, for 1/4 sec cor. marked 1/4 S. on W.

Subdivision of T. 26 S., R. 23 E. continued

Chains	
	face, raised a mound of stone 2 ft. base, 1½ ft. high. N. of Cor. Pits impracticable.
56.00	Ridge, bears N. W. and S. E. descend
63.00	Ravine 100 ft. deep, course W. ascend.
80.00	Falls on sandstone ledge. S. side of high sandstone knob bears E. and W. Mark Cross on ledge, for Cor. of secs. 17, 18, 19 and 20. with 3 notches on S. and 5 notches on E. edges. Raised a mound of stone 2 ft. base, 1½ ft. high N. of Cor. Pits impracticable. Land, broken, Soil, stony 4th rate Timber, cedar and pinion Mountainous land, 80.00 chs.
	S. 89°59' E. on a random line bet. secs. 17 and 20.
40.00	set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at the cor. of secs. 16, 17, 20 and 21. Thence run N. 89°59' W. on true line bet. secs. 17 and 20. Descending over broken sandstone ledges, through scattering cedar and pinion.
11.00	Cañon, Dry. 500 ft. deep. Course N. W. ascend
38.70	Top of sandstone ledges

Subdivision of T. 26 S., R. 23 E., Continued.

Chains.	
	100 ft. high. bears N. and S.
40.01	Set a sandstone 18 x 12 x 4 ins. 12 ins. in the ground, for 1/4 sec. cor. marked 1/4 S. on N. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of it.
	Pits impracticable.
44.10	Pinnacle of sandstone 15 ft. high, on top of Ridge bears N.W. and S.E.
55.00	Dry run, course S.
76.00	Foot of sandstone ledge, bears N. and S. ascend
78.50	Sandstone prob. 100 ft. high, bears N.W. descend.
80.02	The cor. of secs. 17, 18, 19 and 20.
	Land, broken
	Soil, stony 4th-rate.
	Timber cedar and pinion
	Mountainous land,
	80.02 chs.
	March 14th, 1902.

March 15th, 1902.

At 8 a.m., l.m.t., I set off 38°33' N. on lat. arc; 2°18' S. on decl. arc; and determine a true meridian with the solar, at the cor. of secs. 17, 18, 19 and 20.

N. 89°59' W. on a random line bet. secs. 18 and 19.

40.00	Set temp. 1/4 sec. cor.
77.47	Intersect W. bdy. of Tp. 3 lks. N. of the cor. of secs. 13, 18, 19 and 24.

Subdivision of T. 26 S., R. 23 E., continued.

Chains.	
	Thence I run East on a true line bet. secs. 18 and 19. Ascending over broken land, through scattering cedar and pinion timber.
37.47	Set a sand stone 14 x 8 x 6 ins 10 ins. in the ground, for 1/4 sec. cor. Marked 1/4 S. on N. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of Cor.
	Pits impracticable.
54.50	Foot of sand stone bluff bears N. and S.
59.00	Top of sand stone bluff 300 ft high bears N. and S. Descend over the broken S. side of bluff.
77.47	The cor. to secs. 17, 18, 19 and 20. Land, broken. Soil, sandy and stony. 4th rate. Timber, cedar and pinion. Mountainous land.
	77.47 chs.

	N. 0.03 chs. bet. secs. 17 and 18. Ascend S. side of sandstone knob.
3.50	Top of knob, 100 ft above cor. Ridge bears N.W. and S.E. Descend over broken land through scattering cedar and pinion.
40.00	200 ft below Ridge. Set a sand stone 18 x 10 x 5 ins 12 ins. in the ground, for 1/4 sec. cor. Marked 1/4 S. on

Subdivision of T. 26 S. R. 23 E. continued.

chains	
	W. face.
	From which a pinion 10 ins. in diam. bears S. 50° E. 36 lks. dist. marked 1/4 S. 17 E. P.
	No other bearing trees within proper limits.
	raised a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor.
	Pits impracticable.
46.00	Ravine 100 ft. deep. course N.W.
60.00	Spur, projects W. descend.
77.75	Bottom Creek, North fork of Mill Creek, 5 lks wide. pure water flows N.W. in Cañon 500 ft deep. ascend.
80.00	Falls on sand stone ledge bears N. and S. marked cross on ledge for cor. of secs. 7, 8, 17 and 18. with 4 notches on S. and 5 notches on E. sides.
	raised a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor.
	Pits impracticable.
	Land, broken.
	Soil, stony 4th rate.
	Timber, Cedar and pinion.
	Mountainous land 80.00 ch.
	March 15th 1902.
	I set off 2°15' S on decl. arc. and at 0 h. 9 m. p.m. l. m. t., observe the sun on the meridian, the resulting lat. is 38°34' N.
	S. 89°59' E. on a random line. bet. secs. 8 and 17.
40.00	set temp. 1/4 sec. cor.

Subdivision of T. 26 S., R. 23 East. continued

Chains	
80.12	Intersect N. and S. line 9 lks. W. of the Cor. of secs. 8, 9, 16 and 17. Thence I run N 89°55' W. on a true line. bet. secs. 8 and 17. Descend over broken sand stone ledges and boulders, through scattering cedar and pinion
21.00	Point of spur, projects W. descend.
26.00	Ravine 100 ft deep course N. W. ascend.
40.06	set a sand stone 16 x 11 x 5 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 S. on N. face, raised a mound of stone 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
59.00	top of ridge, bears N. W. and S. E. descend,
80.12	600 ft. below cor. of secs. 8, 9, 16 and 17. The cor. of secs. 7, 8, 17 and 18. Sand, brokers. soil, stony 4th rate. Timber, Cedar and pinion Mountainous land, 80.12 chs.
	West on a random line bet. secs. 7 and 18.
40.00	set temp. 1/4 sec. cor.
77.37	intersect W. bdy. of Tp. at the cor. of secs. 7, 12, 13 and 18. Thence I run

Subdivision of T. 26 S., R. 23 E., continued.

Chains	
	East on a true line bet. secs. 7 and 18. Ascend over broken land through scattering cedar and pinion.
36.00	begin abrupt ascent over broken ledges. bears N. & S.
37.37	Falls on sand stone ledge bears N. and S. Mark cross, on ledge for 1/4 sec. cor. with 1/4 S. on N. side. raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of Cor. Pits impracticable.
39.00	Top of sand stone knob. 15 ft. high. descend lower broken ledges bears N. W. and S. E.
76.15	North fork of mill creek, 5 lks. wide, pure water flows N. W. in bottom of canon 700 ft. deep. ascend.
77.37	The cor. of secs. 7, 8, 17 and 18. Land, broken, soil, stony, 4th rate. Timber, cedar and pinion. Mountainous land, 77.37 chs.
	Mch. 15th 1907.

Mch. 16th 1907.

At 8 a.m., l.m.t., I set off 38°34' N. on lat. arc; 1°55' S. on decl. arc; and determine a true meridian with the solar at the cor. of secs. 7, 8, 17 and 18.

N. 0°03' W.

Subdivision of T. 26 S. R. 23 E. continued

Chains	
	bet. secs. 7 and 8.
	Ascend over broken sand-stone ledges,
	through scattering cedar and pinion timber.
3.00	Spur projects W. descend.
5.00	Ravine 200 ft deep.
	Course W. ascend.
31.00	Top of sandstone ledges 500 ft above sec. cor.
	bear E. and W.
40.00	Set a sand stone 16 x 10 x 4 ins. 11 ins. in the ground, for 1/4 sec. cor. marked 1/4 S. on W. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high W. of Cor.
	Pits impracticable
80.00	700 ft above cor. of secs. 7, 8, 17 and 18.
	Set a sand stone 18 x 14 x 4 ins. 12 ins. in the ground, for cor. of secs. 5, 6, 7 and 8.
	marked with 5 notches on S. and E. edges,
	raised a mound of stone 2 ft. base, 1 1/2 ft. high W. of Cor.
	Pits impracticable.
	Land, broken
	Soil, stony, 4th rate.
	Timber, cedar and pinion.
	Mountainous land,
	80.00 chs.

	Lt. 89°55' E. on a random line
	bet. secs. 5 and 8.
40.00	Set temp. 1/4 sec. cor.
80.14	Intersect N. and S. line
	3 lks S. of the cor. of secs.

Subdivision of T. 26 S. R. 23 E. continued.

Chains	
	4, 5, 8 and 9.
	Thence Iron
	N. 89°56' W. on a true line,
	bet. secs. 5 and 8.
	Descending over broken
	ledges,
	through scattering cedar
	and pinion.
36.00	Elbow of Canon
	5 chs. S. Course from
	S. E. to N. W.
40.07	Falls in bottom of Canon
	600 ft deep. dry. Course
	N. W. and on land subject
	to slide, and is not set.
	Ascend.
49.10	Top of sand stone ledge
	200 ft high. bears N. & S.
	Set a sand stone 18 x 12 x 4
	ins. 12 ins. in the ground
	and mound of stone, for
	Witness 1/4 sec. cor. marked
	H.C. 1/4 S. on N. face,
	raised a mound of stone
	2 ft. base, 1 1/2 ft. high. N. of
	Cor. Pits impracticable.
50.50	Ridge, bears N. W. and
	S. E. descend.
80.14	The cor. of secs. 5, 6, 7 and 8.
	Land, broken,
	Soil, stony 4th rate.
	Timber, cedar and pinion.
	Mountainous land,
	80.14 chs.
	Mch 16th 1907.
	At this cor. I set off
	1°51' S. on decl. arc: and at
	0h 9m p.m., l. m. t, observe the
	Sun on the meridian; the

Subdivision of T. 26 S., R. 23 E. Continued

Chains.	resulting lat. is 38°35' N.
	West on a random line. bet. secs. 6 and 7.
40.00	set temp. 1/4 sec. cor.
77.25	Intersect W. bdy. of Tp. at the cor. of secs. 1, 6, 7 and 12.
	Thence Trun
	East on a true line bet. secs. 6 and 7.
	Descend
0.50	Rill creek, dry in bottom of canon 400 ft deep, Course S. W. Ascend over broken ledges of sand stone, bear N. E. and S. W.
31.50	Bluff 500 ft above sec. cor. Ridge bears N. and S. descend.
37.25	set a sand stone 16 x 12 x 4 ins. 11 ins. in the ground for 1/4 sec. cor. Marked 1/4 S. on N. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
	Pits impracticable.
39.00	Bottom of ravine 300 ft deep. Course S. ascend. through scattering cedar and pinion.
51.75	Top of cliffs, sand stone 150 ft high bears N. W. and S. E.
77.25	The cor. of secs. 5, 6, 7 and 8.
	Land, broken,
	Soil, stony, 4th rate.
	Timber, cedar and pinion
	Mountainous land
	77.25 chs.

Subdivision of T. 26 S, R. 23 E concluded.

Chains.	
	It will be impossible to run full mile North. Therefore I run N 0°03' W. bet. secs. 5 and 6. Ascending over broken land through scattering cedar and pinion.
5.00	Spur, Ridge, bears E and W, descend.
10.00	Ravine 200 ft deep. Course W ascend.
13.50	Top of bluff. bears E and W.
40.00	300 ft below bluff. set a sand stone 20 x 12 x 5 ins. 15 ins. in the ground and mound of stone, for 1/4 sec. cor. marked 1/4 S. on W. face, raised a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. On account of a series of bad canons and perpendicular cliffs it is utterly impossible to survey this line North. The Northern part of this township and portion left out is almost impassable and impossible to survey. Therefore I abandon work. Land broken Soil, stony 4th rate. Timber, cedar and pinion. Mountainous land, 40.00 chs.

March 16th 1902.

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Subdivision of T. 26 S., R. 23 E.

General Description.

The portion of the township surveyed by me is about the same throughout, being a broken sand stone formation. Very rugged and almost impassable, being a series of broken ledges, perpendicular cliffs and box Cañons.

There is a small strip of agricultural land along mill creek, otherwise the land is stony, 4th rate and is covered with a thin growth of grass and scattering scrub cedar and pinion.

The water of mill creek reaches the township west and is used there for irrigation.

J. H. Webb lives in the S. W. 1/4 of sec. 19. Loghouse and Fence Value $150.00

There are no other settlers and no indications of mineral.

Hubert D. Page,
U.S. Deputy Surveyor

There being no Notary public or other officer, authorized to administer oaths within reasonable distance at the beginning or ending of this survey. In order to save time and expense I administer the preliminary and final oaths myself.

March 5. 1902.

Hubert D. Page
U.S. Deputy Surv

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of T. 34 S., R. 24 E., T. 33 S., R. 25 E., T. 26, 29 and 31 S., R. 23 E., T. 29 S., R. 22 E., of the Salt Lake base and meridian in the state of Utah, showing the respective capacities in which they acted:

Peter Meyer, Chainman.
Jay Morrison, Chainman.
Joseph Rasmussen, Moundman.
, Moundman.
Vern Lyman, Axman.
, Axman.
John Baker, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision of T. 34 S., R. 24 E., T. 33 S., R. 25 E., T. 26, 29 and 31 S., R. 23 E., T. 29 S., R. 22 E., of the Salt Lake base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by 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.

Peter Meyer, Chainman.
Jay Morrison, Chainman.
Joseph Rasmussen, Moundman.
, Moundman.
Vern Lyman, Axman.
, Axman.
John Baker, Flagman.

Subscribed and sworn to before me this 8th day of March, 1902.

SEAL

Hubert D. Page
U.S. Deputy Surveyor.

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BOOK A-284

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D Page, United States Deputy Surveyor, d solemnly swear that, in pursuance of a contract received from Edward H Anderson United States Surveyor General for Utah, bearing date of tl 11th day of November, 1901, I have well, faithfully, and truly, in my c proper person, and in strict conformity with the instructions furnished by the United States Survey General for Utah, the Manual of Surveying Instructions, and the laws of t United States, surveyed all those parts or portions of Subdivision of T. 34 S. R. 24 E. T. 33 S. R. 25 E. Ts 26, 29 & 31 S. R 23 E. & T. 29 S. R 22 E.

of the Salt Lake base and meridian, in the State of Utah, which are represented in t foregoing field notes in book B.D.I.M.O.&Q 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 wi 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 su the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Hubert D. Page
United States Deputy Surve

Subscribed by said Hubert D. Page, and sworn to before me this 25th day of March, 1902

Edward H Anderson
U. S. Surveyor Gene
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah Nov 25 1902, 189

The foregoing field notes of the survey of the subdivisions of Township 26 South Range 23 East of the Salt Lake Base and Meridian, Utah

executed by Hubert D Page under his contract No. 247, dated November 11 1901, 189 , having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H Anderson
United States Surveyor Gen

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

United States Surveyor Gen

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Filed Aug. 21. 1902.

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4—679.

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BOOK A-284

FIELD NOTES

OF THE Re SURVEY OF THE

Fourth Standard Parallel
South
through
Range No. 24 East.

Of the Salt Lake base and Meridian,
In the State of Utah.

AS SURVEYED BY

Hubert D. Page, United States Deputy Surveyor,

Under his Contract No. 247, dated November 11th, 1901

Survey commenced April 27th, 1902

Survey completed April 29th, 1902

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Std — high 3-18-00
" low 2-62-00

6-0000

BOOK A284

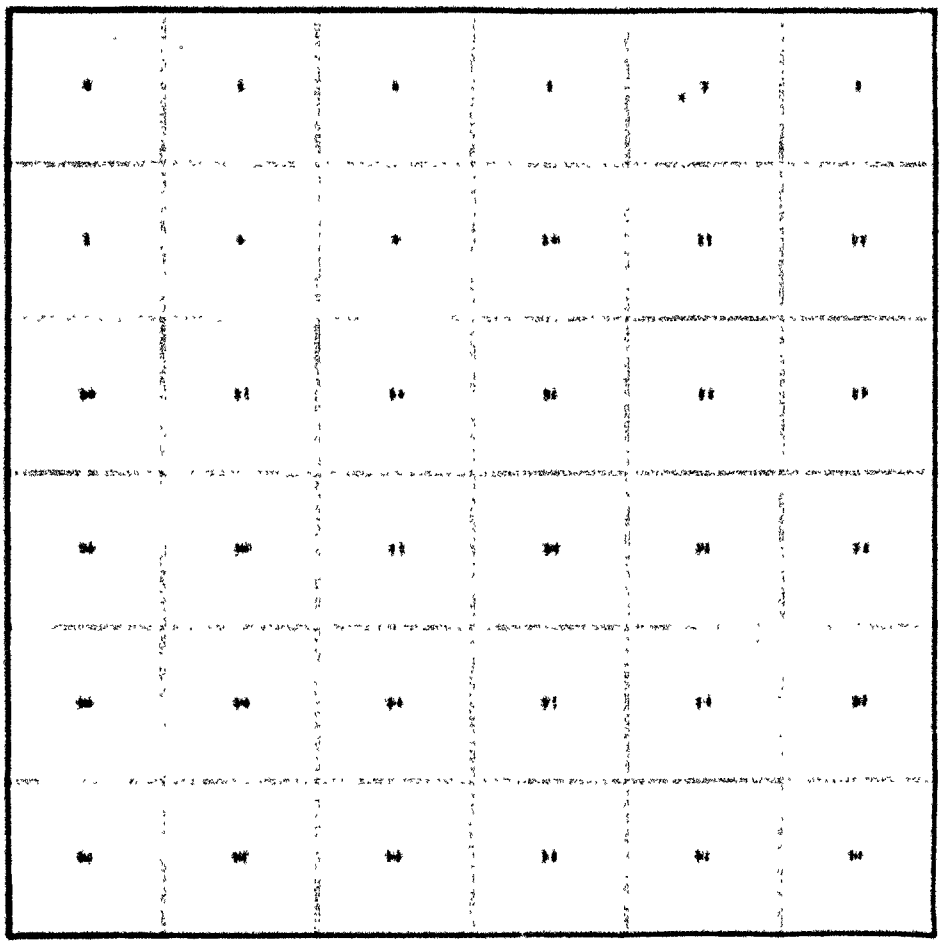
NAMES AND DUTIES OF ASSISTANTS.

Ralph G. Gessford	Chainman
George A. Needham	"
Robert Elliott	"
Walter N. Hartley	"
Will Fisher	Mound man
Will Fisher	Arman
James Nelson	Flag man

BULK A-281

INDEX DIAGRAM.

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



Meanders Page . . . . . .

PRELIMINARY OATHS OF ASSISTANTS.

WE, Ralph G. Gessford, George A. Needham, Robert Elliott and Walter N. Hartley

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 Fourth Standard Parallel South through Range 24 East of the Salt Lake meridian, in the state of Utah.

Ralph G. Gessford
Robert Elliott
George A. Needham, Chainman
Walter N. Hartley, Chainman

Subscribed and sworn to before me this 26th day of April, 1902

Hubert D. Page
U.S. Deputy Surveyor

SEAL

WE, Will Fisher and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given me, to the best of my skill and ability, in the survey of Fourth Standard Parallel South through R. 24 E. of the Salt Lake base meridian, in the state of Utah.

Will Fisher, Moundman
, Moundman

Subscribed and sworn to before me this 26th day of April, 1902

Hubert D. Page
U.S. Deputy Surveyor

SEAL

WE, Will Fisher 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 Fourth Standard Parallel South, through R. 24 E. of the Salt Lake base and meridian in the state of Utah.

Will Fisher, Axman
, Axman

Subscribed and sworn to before me this 26th day of April, 1902

Hubert D. Page
U.S. Deputy Surveyor

SEAL

I, James Nelson, 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 Fourth Standard Parallel South, through R. 24 E. of the Salt Lake base meridian, in the state of Utah.

James Nelson, Flagman

Subscribed and sworn to before me this 26th day of April, 1902

Hubert D. Page
U.S. Deputy Surveyor

SEAL

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Retracement of the

Fourth Standard Parallel South, through Range 24 East.

Survey Commenced,
April, 27th 1902.
and Executed with a N. and L. E. Gurley light mountain transit No.—; 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.

September 28th 1901.

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

After a thorough and diligent search, I was unable to find any trace of the old Standard Cor. of T. 21 S., Rs. 24 and 25 E.

Therefore, I begin at the standard cor. of T. 21 S., Rs 23 and 24 E. Latitude 39°01'42" N.
Longitude 109°19'53" W.

Fourth Standard Parallel South through R. 24 E. continued.

which is a sandstone 24×12×3 ins. firmly set in the ground and marked as described by the Surveyor general.

I remark S.C. 21 S on N. 23 E. on W. and 24 E. on E. faces; dug pits, 30×24×12 ins., crosswise on each line E. and W., 4 ft., and N. of stone 8 ft. dist.; and raised a mound of earth 5 ft. base, 2½ ft. high N. of Cor.

At 4 p.m., l.m.t. I set off 39°02' N. on lat. arc; 13°50' N. on decl. arc; and determine with the solar a true meridian; and mark a point thereof on a stone set firmly in the ground 5.00 chains N. of the Cor.

At 10 h. 58 m. p.m., l.m.t., I observe polaris at lower culmination, in accordance with manual of instructions, the meridian thus determined falls on the mark established by the p.m. solar observation.

April 2[illegible]th 1902.

At 8 a.m., l.m.t., I set off 39°02' N. on lat. arc; 14°00' N. on decl. arc; and determine with the solar, a true meridian, the true meridian thus determined falls on the mark established by p.m. solar and polaris observations.

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

of true meridian, the same as by Polaris observation.
Therefore, the adjustment of the instrument is correct.
The magnetic bearing of the true meridian at 8.30 a.m., is N. 15° 10' W. the angle thus determined, reduced by the table, page 100, gives the mean mag. decl., 15° 06' E.
From the Standard Cor. of T. 20 S., R.s 23 and 24 E.,
Heretofore described.
I run, East
on retracement
40.00 chs. after dilligent search no trace of the old standard 1/4 sec. cor. can be found.
80.00 chs. old standard sec. cor. to secs. 31 and 32. which is a badly decayed post bears N. 85° E. 53 lks. dist.
Therefore, I continue my retracement, and find many of the cors. obliterated and out beyond the allowable limits.
And as the Standard cor. of Tps. 20 S. R.s 24 and 25 E. cannot be found, I resume the Fourth Standard Parallel South, through Range 24 East.
as follows.

Fourth Standard Parallel South through Range 24 East.

Chains.

April 29th 1902.

At 7 hrs. a. m. l. m. t., I set off 39°02' N. on lat. arc; 14°18' W on decl. arc; and determine a true meridian with the solar, at the Standard cor. of T. 20 S., Rs. 23 and 24 E. heretofore described.

I lay off from the true meridian an angle of 90°; from N. to E., and run East on the tangent, S. of Sec. 31. Ascending over rolling land, through scrub sage brush.

20.00 Ridge, bears N.E. and S.W. descend.

30.20 Dry wash, 3 ft. wide 2 ft. deep. course N.E.

30.70 Dry wash 24 ft. wide 5 ft. deep. course S.E.

No difference between measurements of 40.00 chs. by two set of chainmen.

After dilligent search no trace of the old standard 1/4 sec. cor. can be found.

40.00 N. 0.14 ft. from the tangent, set a pine post, 3 ft. long, 3 ins. sq. with marked stone, 24 ins. in the ground, for established standard 1/4 sec. cor., marked S.C. 1/4 S. on N. face; dug pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of Cor.

40.10 Dry wash 20 ft. wide, 4 ft. deep. course S.E.

40.50 Sorenson's wash dry, 10 ft. wide; 7 ft. deep. course S.E. ascend.

50.50 Ridge, bears N. and S. descend.

...th Standard Parallel South through R. 24 E. Continued.

Chains.	
60.50	Wash 10 ft. deep, 10 ft. wide in bottom of ravine 60 ft deep. course S. ascend.
	Difference between measurements of 80.00 chs., by two set of chainmen, is 4 lks.; position of middle point.
	By 1st set, 79.98 chs.
	By 2nd set, 80.02 chs.; the mean of which is
80.00	N. 0.54 ft. from the tangent, set a sand stone 18x12x4 ins. 12 ins. in the ground, for re-established standard cor. of secs. 31 and 32.
	Marked S.C. on N. with 1 groove on W. and 5 grooves on the E. faces; and dig pits 24x18x12 ins., crosswise on each line E. and W. 3 ft., and N. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high N. of Cor.
	The old standard cor. of secs. 31 and 32 which is a decayed post, bears N. 85° E. 53 lks. dist. I destroy all trace of the same.
	Land rolling.
	Soil, clay 2nd rate,
	No timber.
	S. 89° 59' E. on the tangent S. of sec. 32.
	Ascending over rolling land.
	Through sage.
13.75	Knoll, 50 ft. high.
24.90	Ravine, 50 ft. deep. course S. ascend.
34.00	Ridge, bears N. and S. descend.

Fourth Standard Parallel South through R. 24 E. Continued

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	N. 1.22 ft. from the tangent. Set a sand stone 16×10×4 ins. 11 ins. in the ground, for reëstablished standard 1/4 sec. cor. marked S.C. 1/4 S. on N. face, dig pits 18×18×12 ins. E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3½ ft. base, 1½ ft. high, N. of Cor. The old standard 1/4 sec. cor. which is a decayed post. bears N. 60° E. 90 lks. dist. Destroy all trace of same.
49.50	Wash 10 by 12 ft. in bottom of Bog Ravine, 25 ft. deep. course S. ascend.
60.00	Sand stone ledges bear N. and S.
70.00	Leave sand stone ledges, bear N. and S.
	Difference between measurement of 80.00 chs.; by two set 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	N. 2.16 ft. from the tangent. Set a sand stone 18×14×4 ins. 12 ins. in the ground, for reëstablished standard cor. to secs. 32 and 33. Marked S.C. on N. with 2 grooves on W. and 4 grooves on E. faces, raised

ith Standard Parallel South through R. 24 E. continued.

Chains	
	a mound of stone 2 ft. base, 1½ ft. high. N. of Cor. Pits impracticable. The old standard cor. which is a disintegrated sandstone, bears N. 80° E. 1.05 chs. dist. I destroy all trace of the same. Land, broken. Soil, clay and sandy 3rd rate. No timber. Mountainous land 80.00 chs. At this cor. I set off 14° 22' W. on decl. arc; and at 11 h. 51 m. l. m. t. observe the sun on the meridian the resulting latitude is 39° 0' N.
	S. 89° 58' E. on the Tangent S. of Sec. 33. Ascend over broken land.
9.00	Ridge, bears N. and S. descend.
24.00	Ravine, 25 ft. deep. course N. ascend.
	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	N. 3.37 ft. from the Tangent. set a lime stone 28 x 8 x 4 ins. 21 ins. in the ground and mound of stone, for reëstablished standard 1/4 sec. cor. marked S.C. 1/4 S. on N. face, raised a mound of stone 2 ft. base 1½ ft. high. N. of Cor. Pits impracticable. After dilligent search no.

Fourth Standard Parallel South through R. 24 E. continued.

Chains	
	trace of the old standard 1/4 sec. cor. can be found.
53.00	Stony ridge, bears N. and S.
57.00	Ravine 25 ft. deep. course N.W. ascend.
61.75	Group of boulders.
67.00	Ridge, bears N. and S. descend.
73.00	Top of bluff, 350 ft. high, bears N.E. and S.W. descend over broken sandstone ledges and boulders.
	Difference between measurements of 80.00 chs. by two set of chainmen is 8 lbs.; position of middle point
	By 1st set 80.04 chs.
	By 2nd set 79.96 chs.; the mean of which is.
80.00	N. 486 ft. from the tangent. set a sand-stone 15 x 10 x 8 ins. 10 ins in the ground, for re-established standard Cor. to secs. 33 and 34. marked S.C. on N. with 3 grooves on E. and W. faces, and raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of Cor.
	Pits impracticable.
	After dilligent search no trace of the old standard sec. cor. can be found.
	Land broken.
	Soil clay and sandy 3rd and 4th rate
	No timber.
	Mountainous land, 80.00 chs.
	S 89° 57' E. on the tangent S. of sec. 34.
	Descend over broken sandstone ledges and clay hills.
18.00	Leave broken land, bears

...th Standard Parallel South through R. 24 E. continued.

Chains.	
	N. E. and S. W. center rolling land. 350 ft below bluff.
27.00	Dry run. Course S. W. ascend.
36.00	Sand ridge, bears N. and S. descend.
	Difference between measurements of 40.00 chs. by two sets of chain-men is 6 lbs.
	Position of middle point
	By 1st set. 39.97 chs.
	By 2nd set 40.03 chs.; the mean of which is..
40.00	N. 6.61 ft. from the tangent set a sandstone 15x10x6 ins. 10 ins. in the ground, for re-established Standard 1/4 sec. cor. marked S.C. 1/4 S. on N. face, dug pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base. 1 1/2 ft. high N. of cor. after dilligent search no trace of the old standard 1/4 sec. cor. can be found.
43.00	Dry run, course S.
53.00	Sand ridge, bears N. and S.
63.00	Ravine, 25 ft. deep, course S.
74.85	Rio Grand. Western Ry. bears N. 66° E. and S. 66° W.
76.60	Telegraph line, bears N 66° E and S 66° W.
	Difference between measurements of 80.00 chs. by two set of chain man is. 8 lbs.
	Position of middle point
	By 1st set 79.96 chs.
	By 2nd set 80.04 chs.; the mean of which is.

Fourth Standard Parallel South through R. 24 E. Continue

	Chains	
18. 1/4	80.00	N. 8.63 ft. from the tangent, set a sandstone 20 x 10 x 5 ins. 15 ins. in the ground, for re-established Standard Cor. to secs. 34 and 35. Marked S.C. on N. with 4 grooves on the W. and 2 grooves on E. faces; and dug pits 24 x 18 x 12 ins. Crosswise on each line E. and W. 3 ft., and N. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high N. of Cor. After diligent search no trace of the old standard sec. cor. can be found. Land, Mountainous and Rolling. Soil Clay and Sandy. No timber. Mountainous land 18.00 chs.
		S. 89°56' E. on the tangent S. of sec. 35. Descending over rolling land, Dense artimisia.
	14.50	Wash, 25 ft. wide 4 ft deep. Course S.W. ascend. Difference between measurements of 40.00 chs. by two sets of chain men is 4 lbs., position of middle point. By 1st set 39.98 chs. By 2nd set 40.02 chs.; the mean of which is
	40.00	N. 10.93 ft. from the tangent set a sandstone 12 x 8 x 4 ins. 9 ins. in the ground for re-established Standard 1/4 sec. cor. Marked S.C. 1/4 S. on N. face: dig pits 18 x 18 x 12 ins. E. and W.

Fourth Standard Parallel North through R. 24 E, Continued.

Chains.	
	of post, 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of Cor. After dilligent search no trace of the old Standard ¼ sec Cor. can be found.
70.00	Ridge, bears N.E. and S.W. descend.
	Difference between measurement of 80.00 chs. by two sets of chain men 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	N. 13.49 ft. from the tangent, set a sand stone 14 x 8 x 5 ins. 10 ins. in the ground, for reestablished Standard Cor. to secs. 35 and 36. marked S.C. on N. with 5 grooves on W. and 1 groove on E. faces. dig pits 24 x 18 x 12 ins. crosswise on each line. E. and W. 3 ft. and N. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high. N. of Cor. After dilligent search no trace of the old Standard sec. cor. can be found. Land, rolling Soil sandy. No timber.
	S. 89° 55' E. on the tangent S. of sec 36. Descending over rolling land through dense artemisia
12.75	West. 5 x 2 ft. course S.

Resurvey of the

Fourth Standard Parallel South through R. 24 E. continued.

chains	
21.50	Top of sand stone ledges 100 ft. high. bear N.E. and S.W. descend. over broken land.
28.00	Dry wash, 15 ft wide, 5 ft. deep. course S.E. ascend.
35.00	Top of rocky ridge, bears N.E. and S.W. descend.
	Difference between measurements of 40.00 chs., by two sets of chain men, 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. 16.33 ft. from the tangent set a sand stone 16×9×5 ins. 11 ins. in the ground, for reëstablished standard 1/4 sec. cor. marked S.C. 1/4 S. on N. face, dig pits 18×18×12 ins. E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
	After dilligent search no trace of the old standard 1/4 sec. cor. can be found.
45.50	Dry wash, Cotton wood. 125 ft. wide 10 ft. deep. course S.W. along wash.
52.00	East bank of same wash. bears S. 80° W. and N.
52.75	Wagon road, bears N. and S. ascend through dense artimisia.
69.00	Dry run, 4 ft. wide, 2 ft. deep, course S.W.
	Difference between measurements of 80.00 chs. by two sets of chain men, is 10 lks. position of middle point

Survey of the

Fourth Standard Parallel South through R. 24 E. concluded.

Chains.	
	By 1st set 79.95 chs.
	By 2nd set 80.05 chs.; the mean of which is
80.00	N. 19.43 ft. from the tangent. Set a sand stone 18 x 10 x 4 ins. 12 ins. in the ground for reestablished standard cor. to Tp. 20 S., Rs. 24 and 25 E. Marked S.C. 20 S. on N. 25 E. on E. 24 E on W. with 6 grooves on N, E. and W. faces; dig pits, 30 x 24 x 12 ins., crosswise on each line, E. and W., 4 ft., and N. of stone, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2 1/2 ft. high, N. of Cor.
	After dilligent search no trace of the old standard Tp. cor. can be found.
	Land, rolling and broken.
	Soil, sandy. 2nd rate.
	No timber
	Mountainous land and dense under growth 80.00 chs.
	April 29th 1902.
	For general discription see Subdivision.
	Hubert D. Page, U.S. Deputy Surveyor.
	There being no notary public or other officer authorized to adminster oaths, at the beginning or ending of this survey, In order to save time and expense I administer the preliminary and final oaths myself. Hubert D. Page, 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 Hubert D. Page, 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 Fourth Standard Parallel South through R 24 E, of the Salt Lake base and Meridian, in the State of Utah, showing the respective capacities in which they acted:

Ralph G. Gesford, George A. Needham, Chainman.
Robert Elliott, Walter N. Hartley, Chainman.
Will Fisher, Moundman.
, Moundman.
Will Fisher, Axman.
, Axman.
James Nelson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, United States Deputy Surveyor, in surveying all those parts or portions of the Fourth Standard Parallel South through Range 24 East, of the Salt Lake base 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.

Ralph G. Gesford, George A. Needham, Chainman.
Robert Elliott, Walter N. Hartley, Chainman.
Will Fisher, Moundman.
, Moundman.
Will Fisher, Axman.
, Axman.
James Nelson, Flagman.

Subscribed and sworn to before me this 30th day of April, 1902.

SEAL

Hubert D. Page
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Robert A. Page, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward A. Chadwick, United States Surveyor General for the District of Utah, bearing date the 11th day of November 1901, I have well, faithfully, and truly, in the 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 Fourth Standard Parallel South, Abroad Range No. 34 East

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

Robert A. Page
United States Deputy Surveyor

Subscribed by said [illegible] at [illegible] before me this [illegible] day of [illegible] 1901.

Edward A. Chadwick
[illegible]

APPROVAL

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

[illegible]

The foregoing field notes of the survey of the Fourth Standard Parallel South through Range 34 East of the Salt Lake Base and Meridian, Utah,

executed by Robert A. Page under his contract No. [illegible], dated November 11, 1901, 189[illegible], having critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward A. Chadwick
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

4—679.

S

BOOK A-284

FIELD NOTES

OF THE re-SURVEY OF THE

Grand River

Guide Meridian

through

Township No. 21 South

inclusive

Ranges No 23 and 24 East

Of the Salt Lake base and Meridian,

In the State of Utah

AS SURVEYED BY

Hubert D. Page, United States Deputy Surveyor,

Under his Contract No. 247, dated November 11th, 1890

Survey commenced April 30th, 1890

Survey completed April 30th, 1890

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Resurvey Corns 5-28-70

NAMES AND DUTIES OF ASSISTANTS.

Ralph G. Gessford	Chainman
George A. Needham	"
Robert Elliott	"
Walter N. Hartley	"
Will. Fisher	Moundman
Will Fisher	axman
James Nelson	flagman

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BOOK A-284

INDEX DIAGRAM.

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31	32	33	34	35	36

Meanders Page .....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Ralph G. Gessford, George A. Needham, Robert Elliott and Walter N. Hartley 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 re-survey of Grand River Guide Meridian through T. 21 S., between R. 23 and 24 E., of the Salt Lake base and meridian, in the state of Utah.

Ralph G. Gessford
Robert Elliott

George A. Needham, Chainman.
Walter N. Hartley, Chainman.

Subscribed and sworn to before me this 28th day of April, 1902

Hubert D. Page
U.S. Deputy Surveyor

SEAL

~~WE,~~ I Will Fisher ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the re-survey of Grand River Guide Meridian through T. 21 S., between R. 23 and 24 E., of the Salt Lake base and meridian in the state of Utah.

Will Fisher, Moundman.
, Moundman.

Subscribed and sworn to before me this 28th day of April, 1902

Hubert D. Page
U.S. Deputy Surveyor

SEAL

~~WE,~~ I Will Fisher ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the re-survey of Grand River Guide Meridian through T. 21 S., between R. 23 and 24 E., of the Salt Lake base and meridian in the state of Utah.

Will Fisher, Axman.
, Axman.

Subscribed and sworn to before me this 28th day of April, 1902

Hubert D. Page
U.S. Deputy Surveyor

SEAL

I, James Nelson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the re-survey of Grand River Guide Meridian through T. 21 S., R. 23 and 24 E., of the Salt Lake base and meridian, in the state of Utah.

James Nelson, Flagman.

Subscribed and sworn to before me this 28th day of April, 1902

Hubert D. Page
U.S. Deputy Surveyor

SEAL

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Retracement of the

nd River Guide Meridian through T. 21 S., between Rs. 23 and 24 E.

Survey Commenced,
April 30th 1902.
and executed with the instrument described in book "R" of this survey.

I know the instrument to be in adjustment from recent test made April, 27 and 28th at the Standard cor. of Tps. 20 and 21 S. Rs. 23 and 24 E.

and recorded in book "R." of this survey.

At 8 a. m. l. m. t., I set off 39°02' N on lat. arc: 14°38' N on decl. arc; and determine a true meridian with the solar at the Standard cor. of Tp. 20 and 21 S. Rs. 23 and 24 E. Heretofore described.

Thence I run
South on retracement line on the Grand River Guide meridian.
bet. secs. 1 and 6.
40.00 chs. after dilligent search no trace of the old 1/4 sec. cor. can be found, and at 80.00 chs. after dilligent search no trace of the old sec. cor. can be found. Therefore, I continue my retracement, and after dilligent and thorough search none of the old 1/4 sec. or sec. cors. can be found. Therefore, I re-survey the Grand river Guide meridian as follows:

344 BOOK A-284 Resurvey of the Grand River

Guide meridian between T. 21 S. between Rs. 23 and 24 E.

Chains.	
	April 30th 1902. At 2 p. m., L. m. t., I set off 39.02' N. on lat. arc; 14°42' W on decl. arc; and determine a true meridian with the solar at the stand cor. of Tps 20 and 21 S. Rs. 23 and 24 E. heretofore described. Thence I run South On the Grand River Guide Meridian. bet. secs. 1 and 6. Ascend over rolling land. Clay soil.
4.00	Ridge, bears E. and W. descend
6.50	Ravine 50 ft. deep, course E. ascend
23.50	Ridge, bears E. and W. descend.
31.15	Wash, 20 ft. wide, 10 ft. deep. course E.
31.90	Wash, 15 ft. wide, 10 ft. deep, course N.E. ascend.
	Difference between measurements of 40.00 chs. is 4 lbs. position of middle point By 1st set 40.02 chs. By 2nd set 39.98 chs. the mean of which is
40.00	I set a redwood post 3 ft. long 3 ins. square with marked stone 24 ins. in the ground for reëstablished 1/4 sec. cor. marked 1/4 S.1 on W. bor E. face. dig pits 18x18x12 ins. N. and S. of post, 3 ft. diam.; and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
	After diligent search no trace of the old 1/4 sec. cor. can be found.

Guide meridian through Tp. 21 S. between Rs. 23 and 24 E. Continued.

Chains	
52.90	Ridge, bears E. and W. descend. Difference between measurements of 80.00 chs. by two sets of chain men is 6 lks. position of middle point By 1st set is 80.03 chs. By 2nd set 79.97 chs. the mean of which is
80.00	Set a redwood post 3 ft. long, 4 ins. sq.; with marked stone 24 ins. in the ground for reestablished cor. of secs. 1, 6, 7 and 12. marked T. 21 S., S. 6 on N. E. R. 24 E., S. 7 on S. E. S. 12 on S. W. and R. 23 E. S. 1. on N. W. faces; with 5 notches on S. and 1 notch on N. edges; dig pits, 18x18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. After dilligent search, No trace of the old sec. cor. can be found. Land rolling. Soil, clay 2nd rate. No timber.

South
On Grand River Guide meridian.
bet. secs. 7 and 12.
Descending over rolling land.
No difference between measurements of 40.00 chs. by two sets of chain men.

40.00	Set a pine post 3 ft. long, 3 ins square, with marked stone 24 ins. in the ground for reestablished 1/4 sec. cor. marked 1/4 S. 12 on W. 7 on E. faces; dig pits 18x18x12 ins. N. and S. of post.

Guide Meridian through T. 21 S., between R. 23 and 24 E., Continued.

Chains	
	3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high. N. of Cor.
	After dilligent search no trace of the old ¼ sec. cor. can be found.
59.00	Dry wash, 10 ft. wide 5 ft. deep. Course S.E., ascend
61.00	Spur, projects E. descend.
64.00	Wash, 5 ft. wide, 5 ft. deep. course E.
65.50	Wash, 5 ft. wide, 5 ft. deep. course E. ascend.
	Difference between measurements of 80.00 chs. by two set of chain men is. 2 lks. position of middle point.
	By 1st set 79.99 chs.
	By 2nd set 80.01 chs. the mean of which is
80.00	on top of flat knoll.
	Set a pine post 3 ft. long, 4 ins. sq. with marked stone 24 ins. in the ground for reëstablished cor. of sec. 7, 12, 13 and 18, marked T. 21 S., S. 7 on N.E. R. 24 E., S. 18 on S.E. S. 13 on S.W. R. 23 E., S. 12 on N.W. faces with 2 notches on N. and 4 notches on S. edges. dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of Cor.
	After dilligent search no trace of the old sec. cor. can be found.
	Land, rolling
	Soil, clay 2nd rate.
	No timber.

ide Meridian through T. 21 S., between Rs. 23 and 24 E., continued.

Chains	
	South
	On Grand River Guide Meridian.
	bet. secs. 13 and 18.
	Over rolling land.
	No difference between measurements of 40.00 chs. by two sets of chain men.
40.00	Set a pine post, 3 ft. long, 4 ins. square, with marked stone 24 ins. in the ground, for re-established 1/4 sec. cor. marked 1/4 S. 13 on W. 18 on E. faces. dig pits; 18 x 18 x 12 ins. N. and S. of post. 3 ft. dist; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. W. of cor.
	After dilligent search, no trace of the old 1/4 sec. cor. can be found.
78.00	Telegraph line
	bears E. and W.
79.25	Rio Grande Ry.,
	bears E. and W.
	No difference between measurements of 80.00 chs. by two sets of chain men
80.00	Set a redwood post 3 ft. long 3 x 6 ins. with marked stone 24 ins. in the ground, for reestablished cor. to secs. 13, 18, 19 and 24. marked, T. 21 S., S. 18 on N. E., R. 24 E., S. 19 on S. E., S. 24 on S. W., R. 23 E. S. 13 on N. W. faces, with 3 notches on N. and S. edges. dig pits, 18 x 18 x 12 ins. in each sec.; 5 1/2 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	After dilligent search no

Resurvey of the Grand

Guide meridian through T. 21 S. between R. 23 and 24 E., continued

Chains	
	trace of the old sec. cor. can be found. Cisco Station, bears S. 73° W. about 75 chs.
	Land, rolling, soil, clay, 2nd rate. No timber.
	South On the Grand River Guide Meridian bet. secs. 19 and 24. Descending over rolling land. scrub sage brush.
23.00	Wagon road, Cisco to Pump station, bears E and W.
	No difference in measurement of 40.00 chs. by two set of chainmen
40.00	Set a sandstone 15x8x5 ins. 10 ins. in the ground for reëstablished 1/4 sec. cor.; marked 1/4 S on W. face; dig pits 18x18x12 ins. N. and S. of stone, 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high. W. of cor. After diligent search no trace of the old 1/4 sec. cor. can be found.
49.90	Wagon road, Cisco to Richardson, bears N.W. and S.E.
58.65	Wash 5 ft wide, 3 ft. deep in ravine 50 ft. deep course W.
62.00	Spur, projects W.
65.80	Ravine, 30 ft deep. course N.W.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.

Chains.	
	position of middle point by By 1st set 80.02 chs. By 2nd set 79.98 chs. the mean of which is.
80.00	Set a shale rock 15x10x4 ins. 10 ins in the ground, for reestablished cor. to secs. 19, 24, 25 and 30. Marked with 4 notches on the N. and 2 notches on S. edges and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. After dilligent search no trace of the old sec. cor. can be found. Land, rolling. Soil, clay. 2nd rate. No timber.
	South On Grand River Guide Meridian bet. secs. 25 and 30 Ascending over rolling land,
3.75	Ridge, bears N. E. and S. W. descend.
8.40	Trail, bears N. W. and S. E.
15.50	Top of Clay knoll, 40 ft. high, 200 ft. long E. and W.
20.00	Foot of descent, bears E. and W. over nearly level land
32.70	Dry wash 3x3 ft. Course S. W. Difference between measure- ments of 40.00 chs. by two sets of chain-men is 4 lks position of middle point By 1st set 40.02 chs. By 2nd Set. 39.98 chs. the

Guide Meridian through T. 21 S. between Ro. 23 and 24 E. Contin

Chains

mean of which is

40.00 Set a sand stone 16x10x6 ins. 11 ins in the ground. for re-established 1/4 sec. cor. marked 1/4 S. on W. face, dig pits 18x18x12 ins. N. and S. of stone 3 ft. dist. and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
After dilligent search no trace of the old 1/4 sec. cor. can be found.

44.00 Dry wash, 2 ft. wide, 1 ft. deep, course W.

70.05 Dry wash, 8 ft. wide, 4 ft. deep, course S.E.

72.00 Dry wash 4 ft. wide, 3 ft deep, course S.E.
Difference between measurements of 80.00 chs. by two sets of chain men 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 Set a sand stone 15x10x6 ins 10 ins. in the ground for reestablished cor. to secs. 25, 30, 31 and 36. marked with 5 notches on the N. and 1 notch on the S. edges. dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 1 ft. high W. of cor.
After dilligent search no trace of the old sec. cor. can be found.
Land, rolling and level,
Soil, clay 2nd rate.
Noticeable.

Guide Meridian. Through T. 21 S., between Rs. 23 and 24 E., continued.

Chains.	
	South
	On Grand river Guide Meridian.
	bet. secs. 31 and 36.
	Over nearly level land.
9.75	Cisco wash, dry, 20 ft. wide, 14 ft. deep. course E.
24.65	Dry wash, 5 ft. wide, 4 ft. deep, course E.
26.55	Cisco wash, dry, 20 ft. wide, 14 ft. deep. course S.W.
30.95	Cisco wash, dry, 20 ft. wide, 15 ft. deep. course S.E. leave level land ascend
	No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00	Set a sand stone 18 x 8 x 5 ins. 12 ins. in the ground for reestablished 1/4 sec. cor. marked 1/4 S on W. face, dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
	After diligent search no trace of the old 1/4 sec. cor. can be found.
41.00	Spur, projects E.
56.00	Ravine, 25 ft. deep. course E. ascend over rolling land.
78.70	Dry wash, 5 ft. wide, 4 ft. deep. Course E.
	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:

Guide Meridian through T. 21 S., between Rs. 23 and 24 E., Conclu

Chains	
80.00	Set a sandstone 15 x 8 x 5 ins. 10 ins. in the ground for re-established cor. of Ts. 21 and 22 S. R. 23 and 24 E. marked 21 S on NE 24 E on SE 22 S on SW 23 E on NW faces with 6 notches on the N, E, S and W. edges, and raised a mound of stone 2 ft. base, 1½ ft. high S. of cor.
	Pits impracticable
	After dilligent search no trace of the old Tp. cor. can be found.
	Land, rolling
	Soil, clay 2nd and 3rd rate
	No timber.
	April 30th, 1902.
	Hubert D Page Jr.
	U.S. Deputy Surveyor.
	For general discription see Subdivision of T. 21 S., R. 24 E.

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

Hubert D. Page Jr.
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 Hubert D. Page, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the re-survey of Grand River Guide Meridian through T. 21 S., between R. 23 and 24 E., of the Salt Lake Base and Meridian, in the State of Utah, showing the respective capacities in which they acted:

Ralph G. Gessford. George A. Needham, Chainman.
Robert Elliott. Walter N. Hartley, Chainman.
Will Fisher, Moundman.
, Moundman.
Will Fisher, Axman.
, Axman.
James Nelson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, United States Deputy Surveyor, in re-surveying all those parts or portions of the Grand River Guide meridian through T. 21 S. between Rs. 23 and 24 E., of the Salt Lake Base and meridian, in the State of Utah, which are represented on the foregoing field notes as having been re-surveyed by him and under his direction; and that said re-survey has been in all respects, to the best of our knowledge and belief, well and faithfully re-surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Ralph G. Gessford George A. Needham, Chainman.
Robert Elliott Walter N. Hartley, Chainman.
Will Fisher, Moundman.
, Moundman.
Will Fisher, Axman.
, Axman.
James Nelson, Flagman.

Subscribed and sworn to before me this 1st day of May, 1902.

SEAL

Hubert D. Page
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for the District of Utah, bearing date of 11th day of November 1901, 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 the Grand River Guide Meridian through T. 21 S. Nos. 23 and 24 East of the Salt Lake Base and meridian, in the State of Utah, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further sole swear that all the corners of said survey have been established and perpetuated in strict accordance the Manual of Surveying Instructions, and the special written instructions of the United States Surv General for Utah and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will s the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Hubert D. Page
United States Deputy Surve

Subscribed by said Hubert D. Page, and sworn to before me this 21st day of August 1902.

Edward H. Anderson
M.J. Surveyor General

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov 25, 1902.

The foregoing field notes of the survey of the Grand River Guide Meridian through Township 21 South between Range 23 & 24 East of the Salt Lake Base and Meridian, Utah

executed by Hubert D. Page under his contract No. 247, dated November 11th 1901, 189 , having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor Gen

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

United States Surveyor Gen

6—151

Filed Aug. 21, 1901. [illegible]

4—679.

7.

BOOK A-284

Page correct last corner

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FIELD NOTES

OF THE SURVEY OF THE

K.J.B.

South and East boundaries of Township No. 21 South Range No. 24 East

Of the Salt Lake base and Meridian, In the State of Utah

AS SURVEYED BY

Hubert D. Page, United States Deputy Surveyor,

Under his Contract No. 247, dated November 11th, 1901

Survey commenced May 1st, 1902

Survey completed May 4th, 1902

6—151

S. Bdry - high 3-26-00 ✓ 2-51-67 ✓

" " low -

E - " high - 4-39-90 ✓ 5 77 67

Closing 3.20 l ✓

BOOK A-284

NAMES AND DUTIES OF ASSISTANTS.

Ralph G. Gesford Chainman
George a Needham "
Walter N. Hartley Mound man
Robert Elliott "
" " Flagman

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BOOK A-284

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Ralph G. Gessford and George A. Needham 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; that 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 South and E. bdys of T. 21 S. R. 24 E. of the Salt Lake base and meridian, in the sta of Utah.

Ralph G. Gessford, Chainman
George A. Needham, Chainman

Subscribed and sworn to before me this 28th day of April, 1890

SEAL

Hubert D. Page,
U.S. Deputy Surveyor

WE, Walter N. Hartley and Robert Elliott 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 S. and E. bdys. of T. 21 S. R. 24 E. of the Salt Lake base and meridian, in the state Utah,

Walter N. Hartley, Moundman
Robert Elliott, Moundman

Subscribed and sworn to before me this 28th day of April, 1890

SEAL

Hubert D. Page,
U.S. Deputy Surve

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

..... Axma
..... Axma

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

SEAL

I, Robert Elliott, do solemnly swear that I will well and t perform the duties of flagman according to instructions given me, to the best of my skill and ability, in t survey of S. and E. bdys of T. 21 S. R. 24 E. of the Salt Lake base and meridian, in the stat Utah,

Robert Elliott, Flagm

Subscribed and sworn to before me this 28th day of April, 1890

SEAL

Hubert D. Page,
U.S. Deputy Surveyor

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South boundary of T. 21 S., R. 24 E.

Survey Commenced.
May 1st 1902.
And executed with the instrument described in book "R" of this survey.
I know the instrument to be in adjustment from recent test made April 27th and 28th at the standard Cor. of Tps. 20 and 21 S., Rs. 23 and 24 E.
and recorded in book "R." of this survey.

At 8 a.m., l.m.t., I set off 38°56'36" N. on lat. arc; 14°56' W on decl. arc: and determine a true meridian with the solar at the cor. of Tps. 21 and 22 S., Rs 23 and 24 E.
Set by me.
Thence I run
East on S. bdy. of Tp.
bet. secs. 6 and 31.
Descend over broken sand, clay soil, scrub and scanty sage brush.-

14.90	Ravine 25 ft. deep, course N. E.
17.00	Ravine 40 ft. deep, course S. E.
14.00	Spur, projects S. E.
20.75	Dry wash, 8 ft. wide, 4 ft. deep, course S. E.
36.50	Cisco wash, 25 ft. wide. 12 ft. deep. course S. 80° E.
37.67	allowing for convergency of meridian point for 1/4 sec. cor. falls in wash, subject to wash, and is

South boundary of T. 21 S., R. 24 E. continued.

Chains.	
	Not set.
38.17	Set a shale rock 18 x 12 x 3 ins. 12 ins. in the ground, for witness Cor. to 1/4 sec. cor., marked W.C. 1/4 S. on N. face. dig pits 18 x 18 x 12 ins. E. and W. of Corn 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. N. of Cor.
41.75	Dry wash, 10 ft wide, 8 ft. deep. Course S. Knoll 100 ft high 6 chs. N.
42.00	Spur, projects S.
43.80	Dry wash, 10 ft. wide, 8 ft. deep. Course S.
50.00	Spur. 100 ft. high projects N.
59.85	Dry wash 3 x 3 ft. course N.
77.67	Set a sandstone 20 x 8 x 6 ins. 15 ins. in the ground, for Cor. of secs. 5, 6, 31 & 32. marked with 5 notches on the E. and 1 notch on W. edges. and dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft dist. and raise a mound of earth 4 ft. base, 2 ft. high. W. of Cor. Land, broken, Soil, clay, 2nd and 3rd rate. No timber.

East

On S. bdy. of T. bet. secs. 5 and 32.
Ascending over rolling land, scant sage brush.

3.00	Ridge, bears N. and S.
5.00	Wash dry 3 x 3 ft. course N.
32.25	Wagon road, Cisco to Richardson, bears N.W. and S.E.

South boundary of T. 21 S., R. 24 E. continued.

Chains	
40.00	Set a sand stone 14x12x4 ins. 10 ins. in the ground, for 1/4 sec. cor. marked 1/4 S. on N. face, dig pits 18x18x12 ins. E. & W. of stone, 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
49.00	Ridge, bears N. & S.
78.50	Dry wash and ravine 60 ft. deep, course N.
80.00	Set a shale rock 18x14x3 ins. 12 ins. in the ground for cor. of secs. 4, 5, 32 and 33 marked with 4 notches on E. and 2 notches on W. edges, and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Land rolling. Soil, clay 2nd rate. No timber.

East
On S. bdy. of Tp.
bet. secs. 4 and 33.
Ascending over broken land scant sage brush.

1.00	Ridge, bears N. & S.
38.00	Ravine 100 ft. deep, course N.E.
40.00	Set a sand 20x12x5 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 S on N. face, dig pits 18x18x12 ins. E. and W. of stone, 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
46.50	Dry run, course N.

South boundary of T. 21 S., R. 24 E. Continued.

Chains	
54.00	ascend over Sandstone ledge, bears N. and S.
61.00	Leave sandstone ledge, bears N. and S.
69.25	Top of bluff 350 ft. high, bears N.E. and S.W. descend over broken sandstone ledges.
80.00	Set a lime stone 20 x 10 x 4 ins. 22 ins. in the ground, for cor. of secs. 3, 4, 33 and 34. marked with 2 notches on E. and W. edges. and raised a mound of stone 2 ft. base, 1½ ft. high W. of Cor. Pits impracticable. Land, broken Soil, sandy and clay 2nd and 4th rates, No timber Mountainous land, 26. chains. At this cor. I set off 14° 59' N on decl. arc: and at 11h 57m a.m. m. t., observe the sun on the meridian, the resulting lat. is 38° 51' N.
	East On S. bdy. of T. bet. secs. 3 and 34. Descending over broken land.
13.00	Wash 30 ft wide, 7 ft. deep, course S.E. at foot of steep descent. ascend.
17.00	Old wagon road, bears S.E. and N.W.
30.00	Wash, dry. 17 ft. wide, 5 ft deep course S.
40.00	On Ridge, 300 ft below sec. cor. bears N. and S. Set a lime stone 15 x 10 x 6 ins. 10 ins. in the ground, for 1/4 sec.

South boundary of T. 21 S., R. 24 E., continued.

Chains.	
	Cor. marked 1/4 S. on N. face, raised a mound of stone 2 ft. base, 1½ ft. high N. of Cor. Pits impracticable.
68.80	Wire fence, bears S.E. and N.W.
76.00	Wash, dry, 40 ft. wide, 10 ft. deep. course S.E.
80.00	350 ft. below. Cor of secs. 3, 4, 33 and 34. Set a sandstone 15 x 8 x 6 ins. 10 ins. in the ground, for cor. to secs. 2, 3, 34 and 35. Marked with 2 notches on E. and 4 notches on W. edges. and raised a mound of stone 2 ft. base, 1½ ft. high W. of Cor. Pits impracticable. Land mountainous Soil, stony 4th rate. No timber. Mountainous land, 80.00 chs.
	East. On S. bdy of Tp. bet. secs. 2 and 35. Descend
3.95	Ravine, 30 ft. deep. course N.E. along ravine.
14.30	Ravine 30 ft. deep course S.E. leave ravine.
17.80	Ridge, bears N. and S.
20.00	Foot of descend, enter Grand River bottom, bears N.E. and S.W. dense undergrowth young cottonwood.
31.00	Right bank of Grand River 8 ft. high. Course S.W.

South boundary of T. 21 S., R. 24 E. continued

Chains	
	Set a sandstone 18×10×6 ins. 12 ins. in the ground, for meander cor. on S. bdy. sec. 35. marked M.C. on E. face; dig a pit 3 ft. sq., 8 ft. W., of stone; and raised a mound of earth 4 ft. base, 2 ft. high W. of cor.
	To find the distance across the river, I set a flag on line, on East bank; then measure a base N. 12.00 chs., to a point from which the flag bears S. 43°01' E.; which gives for the distance, tan. 43°01' × base, or .933 × 12.00 chs. = 11.20 chs.
40.00.	1/4 section course falls in river & is not set
42.20	To left bank of Grand river Course S.W. bank 50 ft. high. Rapid current, stony and sandy bottom Clear water, about 15 ft. deep. Set a sand stone 24×6×4 ins. 18 ins. in the ground and stone for meander cor. on S. bdy. sec. 34, marked M.C. on W. & W.C. 1/4 S. on N. face, and raise a mound of stone 2 ft. base, 1 1/2 ft. high E. of cor.
	Pits impracticable
	Ascend over broken ledges and bluffs.
48.00	Top of bluffs. 350 ft. above river bears N. and S. descend.
59.00	Ravine 50 ft. deep. course N. Ascend
60.00	Set a sandstone 17×10×4 ins. 11 ins. in the ground, for cor. of secs. 1, 2, 35 & 36 Marked with 1 notch on E. and 5 notches on W. edges and raised a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
	Pits impracticable

South boundary of T. 21 S., R. 24 E. continued.

Chains	
	Land, mountainous. Soil, sandy and stony, 3rd rate. No timber. Mountainous land, 80.00 ch.
	East on South boundary of Tp. bet. secs. 1 and 36 Over rolling and broken land.
7.50	Dry wash 6 ft. wide, 4 ft. deep, course N.
18.00	Dry wash, 6 ft. wide 3 ft. deep. course N.W.
21.00	Ridge, bears N.W. and S.E.
25.50	Ravine, 75 ft. deep. Course N.W. ascend.
40.00	Set a sandstone 14 x 8 x 6 ins. 9 ins. in the ground, for 1/4 sec. cor. marked 1/4 S. on N. face, raised a mound of stone 2 ft. base, 1½ ft. high N. of Cor. Pits impracticable.
42.00	Ridge, bears N. and S. descend.
61.00	Ravine 50 ft. deep. course N. ascend.
80.00	Set a sandstone 16 x 12 x 4 ins. 11 ins. in the ground, for Cor of Ts. 21 and 22 S., Rs. 24 and 25 E., marked 21 S. on N.E. 25 E. on S.E., 22 S. on S.W., and 24 E. on N.W. faces, with 6 notches on each edge. dig pits, 24 x 24 x 12 ins., on each line, N., E., and W., 4 ft., and S. of stone, 8 ft. dist., and raised a mound of earth, 5 ft. base, 2½ ft. high S. of Cor.

South boundary of T. 21 S., R. 24 E. concluded

Land, rolling and broken
Soil, stony and sandy. 3rd rate.
No timber.
Mountainous land 80.00 chs.
May 1st 1902.

East boundary of T. 21 S., R. 24 E.

May 2nd 1902.
At 8 a.m. l. m. t., I set off 38°56'30" N. on lat. arc; 15°14' N. on decl. arc; and determine a true meridian with the solar, at the cor. of Ts. 21 and 22 S., Rs. 24 and 25 E. set by me.
Thence I run
North on E. bdy. of Tp.
bet. secs. 31 and 36.
ascending over broken land,
Scrub sage brush.
9.00 Low ridge. bears N.W. and S.E. descend
18.00 Ravine 5 ft deep, course N.W. ascend along E. side of ridge.
40.00 Set a sand stone, 16 x 10 x 5 ins. 11 ins. in the ground, for 1/4 sec. cor. marked 1/4 S. on W. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high W. of Cor.
Pits impracticable.
58.00 High Spur. projects E. descend
80.00 Set a sand stone 17 x 10 x 4 ins. 11 ins in the ground for cor. of secs. 25, 30, 31 and 36. marked with 5 notches on N. and 1 notch on S. edges. raise a mound of

East boundary of T. 21 S., R. 24 E. continued.

Chains.	
	Stone 2 ft. base, 1½ ft. high W. of Cor. Pits impracticable. Land, broken. Soil, stony 3rd rate. No timber. Mountainous land. 80.00 chs.
	North on E. bdy. of Tp. bet. secs. 25 and 30. Descending over broken land.
22.00	Ravine, 50 ft. deep, Course N.E. ascend
40.00	Set a sandstone 15 x 11 x 9 ins. 10 ins. in the ground for ¼ sec. Cor. marked ¼ S. on W. face; dig pits, 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of Cor. Box Cañon of Grand River is less than 30 chs. North, and it is impossible to meander river at this point on account of box Cañons and shelving sandstone cliffs, or to cross or measure a base for triangulation, therefore, I discontinue line North at this point. Land, broken, Soil, sandy and stony. 3rd rate. No timber. Mountainous land, 40.00 chs.
	May 4th 1902. At 8 a.m., l.m.t., I set off 38°59' N. on lat. arc; 15°50' N. on decl. arc; and determine a true meridian with the solar, at the cor. of secs. 13, 18, 19 and 24. On the E. bdy. of Tp. Set by me, in the survey of the line bet. secs. 13 and 24. See subdivision of this Tp. From this cor. it is impossible to run South on account of box

East boundary of T. 21 S., R. 24 E., continued.

Chains	
	Cañons, and shelving sandstone cliffs, and for the same reason it is impossible to meander the river in secs. 24 and 25.
	From the above mentioned Corner. Run North on E. bdy. of Tp. bet. secs. 13 and 18.
	Ascending over rolling land, through dense a timiza and scattering Cedar and pinon.
4.00	Top of mountain ridge, bears N.E. and S.W. Descend.
40.00	350 ft. below ridge, set a sandstone 16x12x4 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 S on W. face, raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable.
59.00	Sandstone ledge, bears N.W. and S.E.
61.00	Bottom of ravine 450 ft. below ridge, course N.W. ascend.
80.00	Set a sandstone 20x14x4 ins. 15 ins. in the ground, and mound of stone, for cor. of secs. 7, 12, 13 and 18. Marked with 2 notches on the N. and 4 notches on S. edges, raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. Land, mountainous. Soil, sandy, clay and stony, 3rd rate. Timber, Cedar and pinon. Mountainous land, and dense underglowth. 80.00 chs.
	North On E. bdy. of Tp. bet. secs. 7 and 12. Ascending over broken

East boundary of T. 21 S., R. 24 E. continued.

Chains.	
	land, through dense artimisia and scattering cedar and pinon.
0.50	Ridge, bears N.E. and S.W. descend.
17.75	Dry wash 10 ft. wide, 5 ft. deep. course S.W.
29.00	Ravine, 100 ft. deep. course S.W. ascend.
40.00	Top of sand stone ledge, on spur. bears E. and W. Marked x on ledge, for 1/4 sec. cor. with 1/4 S on W. side, raised a mound of stone, 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
66.00	Leave scattering timber bears E. and W.
71.00	Ravine 50 ft. deep. course W. ascend.
80.00	Set a sandstone 18 x 11 x 4 ins. 12 ins. in the ground for cor. of secs. 1, 6, 7 and 12. Marked with 1 notch on N. and 5 notches on S. edges. raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Land, mountainous
	Soil, sandy and clay. 3rd rate.
	Timber, scattering cedar and pinon
	Mountainous land, 80.00 chs
	May 4th 1902.
	At this cor. I set off 15 52' N on decl. arc: and at 0h. 0m. 0s. m. t., observe the sun on the meridian the resulting lat. is 39° 01' N.

East boundary of T. 21 S. R. 24 E. Concl.

Chains.

North on E. bdy. of Tp.
bet. secs. 1 and 6.
Descending over rolling
land, through dense artimisia.

4.50 Ravine 75 ft. deep, course S.W.
ascend.

31.50 Dry wash
Course S.W.

40.00 Set a sand stone 16 x 9 x 6 ins.
11 ins. in the ground, for 1/4
sec. cor. marked 1/4 S. on W. face,
raise a mound of stone, 2 ft.
base, 1 1/2 ft. high W. of cor.
Pits impracticable.

75.00 Top of ridge, bears N.E. and S.W.
descend

79.90 Intersect 4th standard parallel
South 3.20 chs. W. of the standard
cor. of Tp. 20 S., Rs. 24 and 25 E.
Set by me and heretofore described.
Set a sand stone 18 x 10 x 4 ins. 12 ins
in the ground for closing cor. to T. 21 S.
Rs. 24 and 25 E., marked C.C. 21 S in on S.
with 6 grooves on E. W. and S.
faces. raise a mound of stone
2 ft. base, 1 1/2 ft. high S. of cor.
Pits impracticable.
Land, rolling,
Soil, sandy, 2nd and 3rd rate.
No timber.
Dense undergrowth 79.90 chs.
May 4th 1902.

For general discription see Subdivision of Tp.
Hubert D. Page
U.S. Deputy Surveyor

Latitude, Departure and Closing errors

Line Designated	True bearing	Distance	Latitude N.	Latitude S.	Departure E.	Departure W.
1st St. Parallel S.	East	476.80			476.80	
Grand River G.M.	South	480.00		480.00		
South Bdy 21-24	West	477.67				477.67
E bdy sec 36 & 31	North	80.00	80.00			
W bdy 25 & 36	West	80.00				80.00
bet secs 25 & 2 and 23 & 24	North	160.00	160.00			.05
bet secs 13 & 24	East	80.00			80.00	
E bdy	North	239.90	239.90			
Convergency					.59	
totals.			479.90	480.00	557.39	557.72
				479.90		557.39
Error in Lat. and Departure				.10		.33

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

Hubert D. Page
U.S. Deputy Surveyor.

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PAGE

BOOK A-2

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of South and E. bdys of T. 21 S., R. 24 E., of the Salt Lake base and meridian, in the state of Utah. showing the respective capacities in which they acted:

Ralph G. Gessford, *Chainman.*
George A. Needham, *Chainman.*
Walter N. Hartley, *Moundman.*
Robert Elliott, *Moundman.*
, *Axman.*
, *Axman.*
Robert Elliott, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, United States Deputy Surveyor, in surveying all those parts or portions of the South and East boundaries of T. 21 S., R. 24 E., of the Salt Lake base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Ralph G. Gessford, *Chainman.*
George A. Needham, *Chainman.*
Walter N. Hartley, *Moundman.*
Robert Elliott, *Moundman.*
, *Axman.*
, *Axman.*
Robert Elliott, *Flagman.*

Subscribed and sworn to before me this 5th day of May, 1890

SEAL

Hubert D. Page
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the District of Utah, bearing date of the 11th day of November 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the South and East Boundaries of T. 21 S. R. 24 East

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

Hubert D. Page
United States Deputy Surveyor.

Subscribed by said Hubert D. Page, and sworn to before me this 21st day of August 1902

Edward H. Anderson
U. S. Surveyor General

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Nov 25, 1902 189

The foregoing field notes of the survey of the South & East Boundaries of Township 21 South Range 24 East of the Salt Lake Base & Meridian, Utah

executed by Hubert D. Page under his contract No. 47, dated November 11th 1901, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor 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.

U.

BOOK A-284

FIELD NOTES

OF THE SURVEY OF THE

K.F.B.

Subdivision
and
Meanders
Township No. 21 South.
Range No. 24. East.

Of the Salt Lake base and Meridian,
In the state of Utah.

AS SURVEYED BY

Hubert D. Page, United States Deputy Surveyor,

Under his Contract No. 247, dated November 11th, 1901

Survey commenced May 3rd, 1902

Survey completed May 17th, 1902

6—151

Subs- high 32.59 87
" low — — — 26 47.56 ✓
Arsings — — — 15.86 ✓
Meanders- high 11.10.95 ✓
" low — — — 2.21.65 ✓

26-6342

13-32-60

BOOK A-284

NAMES AND DUTIES OF ASSISTANTS.

Ralph G. Gifford, Chainman
George A. Needham "
Walter N. Hartley Mound man
Robert Elliott "
Robert Elliott Flag man

BOOK A-284

INDEX DIAGRAM.

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*Meanders Page*_____

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Ralph G. Gessford and George A. Needham do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level t chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey The Subdivision of T. 21 S., R. 24 E., of the Salt Lake base and Merid in the State of Utah.

Ralph G. Gessford, Chainm

George A. Needham, Chainm

Subscribed and sworn to before me this 28th day of April, 1890 } Hubert D. Page, U.S. Deputy Survey

SEAL

WE, Walter N. Hartley and Robert Elliott do solemnly swear that we will well and truly perform the duties of moundmen in the establish of corners, according to the instructions given us, to the best of our skill and ability, in the survey The Subdivision of T. 21 S., R. 24 E., of the Salt Lake base and Meridian, i State of Utah.

Walter N. Hartley, Moundm

Robert Elliott, Moundm

Subscribed and sworn to before me this 28th day of April, 1890 } Hubert D. Page, U.S. Deputy Survey

SEAL

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

..... Axm

..... Axm

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

SEAL

I, Robert Elliott, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, i survey of the Subdivision of T. 21 S., R. 24 E., of the Salt Lake base and Merid the State of Utah.

Robert Elliott, Flag

Subscribed and sworn to before me this 28th day of April, 1890 } Hubert D. Page, U.S. Deputy Survey

SEAL

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SUBDIVISIONS OF T.2I S. R.24 E.

CHAINS	
	Survey commenced May 3rd.I902,and executed with the instrument described in book "R" of this survey.
	I know the instrument to be in adjustment from recent tests made April 27 and 28,I902,at the Standard Cor. of Tps.20 and 2I S. Rs.23 and 24 E. and recorded in book " R " of this survey.
	At 8 a.m.,l.m.t.,I set off 38° 56' 26' N.on the lat. arc;I5° 32'N.on the decl.arc;and determine a true meridian with the solar at the cor.of secs.I-2-35 and 36,heretofore described on the S.Bdy.of the Tp.
	Thence I run
	N.0° 0I'W.bet.secs.35 and 36.
	Descend over broken land.
22.00	Bottom of ravine 250 ft.deep,course N.W.
	Ascend.
35.50	Broken sandstone ledges 200 ft.high,bear E.and W.
38.00	Top of spur ridge projects S.W.
	Descend.
40.00	Set a sandstone I8xI0x5 ins.,I2 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the W.face,and raise a mound of stone 2 ft.base,I½ ft.high,W.of cor.
	Pits impracticable.
64.00	Creek 2 lks.wide 4 ins.deep,in bottom of canon 250 ft.deep,course W.
	Ascend.
67.00	Bottom of canon 250 ft. deep, course from the N.to S.W.
	Ascend along side of canon.
80.00	Set a sandstone I8xI0x5 ins.,I2 ins.in the ground, for cor.of secs.25-26-35 and 36,marked with I notch on the S.and E. edges,and raise a mound of stone 2 ft.base,I½ ft.high,W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony 4th.rate.
	No timber.
	Mountainous land 80.00 chs.

SUBDIVISIONS OF T.21S. R.24 E., continued.

CHAINS

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

40.00 Set temp.¼ sec.cor.

30.00 Intersect E.Bdy.of TP.at the cor.of secs.
25-30-31 and 36,
heretofore described.

Thence I run
West on a true line bet.
secs.25 and 36.

Ascend over rolling land.

21.00 Top of ridge bears N.and S.

Descend.

36.00 Bottom of ravine 150 ft.deep,course S.

Ascend.

40.00 Set a sandstone 15x10x5 ins.,10 ins.in the ground,
for ¼ sec.cor.,marked ¼ S. on the N.face,and raise a
mound of stone 2 ft.base,1½ ft.high,N.of cor.

Pits impracticable.

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

Descend.

78.50 Bottom of canon 250 ft.deep,course S.

Ascend.

80.00 The cor.of secs.25-26-35 and 36.

Land mountainous.

Soil stony 4th.rate.

No timber.

Mountainous land 80.00 chs.

N.0° 01'W.bet.secs.25 and 26.

Ascend over broken land.

22.00 Top of spur projects W.

Descend.

25.00 Bottom of ravine 50 ft.deep,course S.W.

Ascend.

37.00 Top of ridge bears E.and W. Descend.

40.00 Set a sandstone 24x14x4 ins.18 ins.in the ground,

SUBDIVISIONS OF T.21 S.R.24 E.-CONTINUED.

CHAINS.	
	For ¼ sec.cor., marked ¼ S. on the W. face, and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
55.00	Bottom of ravine 100 ft. deep, course S.W.
	Ascend.
80.00	Top of ridge bears N.E. and S.W.
	Set a cobble stone 18x10x8 ins. 12 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. edges, and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony 3rd. rate.
	No timber.
	Mountainous land on 80.00 chs.
	May 3rd.: At this cor. I set off 15°35'N. on the decl. arc, and at 11 h. 57 m. A.M. l.m.t. observe the sun on the meridian, the resulting lat. is 38°58'N.

	As the line bet. secs. 24 and 25 cannot be run to the E. bdy., on account of a bend in Grand River, I run
	East on a true line bet. secs. 24 and 25
	Descend over broken land.
10.00	Bottom of ravine 150 ft. deep, course S.
	Ascend.
40.00	Top of ridge bears N. and S.
	Set a sandstone 12x8x5 ins. 8 ins. in the ground, for ¼ sec. cor., marked ¼ S. on the N. face, and raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
	Descend.
43.00	Right bank of Grand River, bears N.W. and S.E.
	The river runs through a box canon here, the sides of which are high broken ledges, making it impossible to meander, I do not set a meander cor.
	Land broken.

SUBDIVISIONS OF T.21 S.R.24 E.-CONTINUED.

CHAINS.	Soil rocky 4th.rate.
	No timber.
	Mountainous land on 43.00 chs.
	N.0°01'W.bet.secs.23 and 24
	Descend over rolling sandy land.
17.00	Dry wash 4 ft.wide,3 ft.deep,course E.
40.00	Set a sandstone 16x9x8 ins.11 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the W.face;dig pits 18x18x 12 ins.N.and S.of stone 3 ft.dist.;and raise a mound of earth 3½ ft.base 1½ ft.high W.of cor.
46.00	Right bank of Grand River bears N.W.and S.E. On account of shelving sandstone ledges it is impossible to meander the river at this point;therefore I set no meander cor. To determine the dist.across Grand River,I set a flag on line,on left bank;then measure a base S.89° 59'W.25.00 chs.to a point,from which the flag bears N.46°09'E.;from the flag the W.end of the base bears S.46°09'W.;therefore the dist.is tan.43°50' x 25.00 = 24.00 chs.;making the whole dist.46.00+24.00
64.00	To left bank of Grand River.Cannot meander on account of perpendicular ledge.
70.00	Triangulation point on top of sandstone ledges 100 ft.high bear N.W.and S.E. As meander cor.cannot be set at true point,which is 64.00 chs.on account of broken ledges,therefore at this point mark a cross (X) at exact point for witness cor.to meander cor.of fracl.secs.23 and 24,marked W.C.M.C.on S.T.21 S.on N.R.24 E.S.23 on W.and S. 24 on E.sides,and raise a mound of stone 2 ft.base 1½ ft.high N.of cor.Pits impracticable. Descend.
78.00	Bottom of Cottonwood Wash 100 ft.deep,course S.E. Ascend.

SUBDIVISIONS OF T.2I S. R.24 E.,continued.

Chains	
80.00	Set a sandstone I4xI2x4 ins.,I0 ins.in the ground for cor.of secs.I3-I4-23 and 24,marked with 3 notches on the S.and I notch on the E.edges,and raise a mound of stone 2 ft.base,I½ ft.high,W.of cor.
56/24	Pits impracticable.
	Land mountainous.
	Soil stony 4 th.rate.
	No timber.
	Mountainous land on 56.00 chs.

	To establish the cor.of secs.I3-I8-I9 and 24 on the E.Bdy.of the Tp.,as it could not be established by running N.from S.Bdy.(See notes of E.Bdy.book"T.")
	East on a true line bet. secs.I3 and 24.
	Ascend over broken sandstone ledges.
38.00	Top of sandstone bluff 300 ft.high,bears N.W.and S.E.
	Enter scattering cedar and pinion timber. Descend.
40.00	Set a sandstone I2xI0x5 ins.,8 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the N.face,and raise a mound of stone 2 ft.base,I½ ft.high,N.of cor.
	Pits impracticable.
62.00	Begin ascent.
75.00	Top of ridge bears N.E.and S.W.
	Leave timber.
	Descend.
80.00	Set a sandstone I8xI0x4 ins.,I2 ins.in the ground for cor.of secs.I3-I8-I9 and 24,on the E.Bdy.of the Tp.,marked with 3 notches on the N.and S. edges,and raise a mound of stone 2 ft.base,I½ ft.high,W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony 3rd.and 4th.rate.
	Timber scattering cedar and pinon.
	mountainous land on 80.00 chs.
	May3,I902.

SUBDIVISIONS OF T.2I S. R.24 E.,continued.

CHAINS	
	May 5: At 8 a.m.,l.m.t.,I set off 38° 59'N.on the lat.arc; I6° 07'N.on the decl.arc;and determine a true meridian with the solar,at the cor.of secs.I3-I4-23 and 24.
	Thence I run
	N.0° 0I'W.bet.secs.I3 and I4.
	Ascend over broken sandstone ledges.
7.00	Top of sandstone spur projects W.
	Descend.
II.00	Bottom of Cottonwood Wash,500 ft.deep,course S.W.
	Ascend.
2I.00	Top of spur,projects E.
	Descend.
24.50	Bottom of Cottonwood Wash,course S.E.
	Ascend.
27.00	Top of spur projects W.
	Descend.
30.50	Bottom of Cottonwood Wash,course S.W.
	Ascend.
40.00	Top of ridge bears E.and W.
	Set a sandstone I5x8x4 ins.,I0 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the W.face,and raise a mound of stone 2 ft.base,I½ ft.high,W.of cor.
	Pits impracticable. Descend.
71.00	Bottom of ravine 75 ft.deep,course S.W.Ascend.
80.00	Set a sandstone 20xI4x6 ins.,I5 ins.in the ground,for cor.of secs.II-I2-I3 and I4,marked with 4 notches on the S.and I notch on the E.edges,and raise a mound of stone 2 ft.base,I½ ft.high,W.of cor.
	Pits impracticable.
	Land mountainous,and rolling.
	Soil stony and sandy,3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.2I S. R.24 E.,continued.

CHAINS	
	East on a random line bet.secs.12 and 13.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.00	Intersect E.Bdy.of Tp.,at the cor.of secs. 7-12-13 and 18.
	Thence I run West on a true line bet. secs.12 and 13.
	Ascend over rocky land.
1.00	Top of ridge bears N.E.and S.W.
	Descend.
	Enter scattering cedar and pinon timber.
26.00	Top of sandstone ledges 300 ft.high,bear N.E.and S.W.
	Begin abrupt descent.
29.50	Bottom of Cottonwood Wash,300 ft.deep,course from N.E.to W.
	Thence along bottom of Wash.
38.00	Leave Wash,course S.E.
	Begin abrupt ascent over sandstone ledges.
40.00	Point for $\frac{1}{4}$ sec.cor falls on steep slope and cannot be set.
46.50	Top of steep ascent and sandstone ledges 350 ft.high, bear N.E.and S.W.
	Set a sandstone 18x12x8 ins.,12 ins.in the ground for witness cor.to $\frac{1}{4}$ sec.cor.,marked W.C. $\frac{1}{4}$ S. on the N. face,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high, N.of cor.
	Pits impracticable.
	Gradual ascent.
52.00	Top of ridge bears N.E.and S.W. Descend.
72.00	Bottom of ravine 50 ft.deep,course S.W.Ascend.
80.00	The cor of secs.11-12-13 and 14.
	Land mountainous.
	Soil stony and rocky 3rd.and 4th.rate.
	Timber scattering cedar and pinon.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	N.0° 01'W.bet.secs.11 and 12.
	Ascend over stony land.
12.50	Foot of sandstone ledges bear N.E.and S.W.
	Ascend abruptly.
17.50	Top of sandstone ledges 250 ft.high.
	Gradual ascent.
	Enter scattering cedar and pinon timber.
26.00	Top of ridge bears N.E.and S.W.
	Descend.
40.00	Set a sandstone 16x11x4 ins.,11 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the W.face,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
48.00	Dry run course S.W.
	Ascend.
61.00	Top of ridge bears N.E.and S.W.
	Descend.
80.00	Set a sandstone 24x10x4 ins.,18 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.edges,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 scattering cedar and pinon.
	Mountainous land on 80.00 chs.
	May 5: At this cor.1 set off 16° 10'N.on the decl. arc;and at 11 h. 57 m.,a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 39° 01'N.
	East on a random line bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
79.90	Intersect E.Bdy.of Tp.at the cor.of secs.1-6-7 and 12.
	Thence I run

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	West on a true line bet.
	Secs.1 and 12.
	Descend over sandy soil,through dense artemisia.
7.00	Bottom of Cottonwood Wash,150 ft.wide,10 ft.deep,
	course S.
	Enter scattering cedar and pinon timber.
	Ascend.
38.00	Sandstone ledges bear N.and S.
39.95	Falls on a smooth sandstone ledge,I cut a cross,X,
	at exact point for ¼ sec.cor.,mark ¼ S. on N.side of
	cross and raise a mound of stone 2 ft.base,1½ ft.
	high,N.of cor.
	Pits impracticable.
61.00	Top of ridge bears N.E.and S.W.
	Descend.
	Leave sandstone ledges.
79.90	The cor.of secs.1-2-11 and 12.
	Land rolling.
	Soil sandy and stony 3rd.rate.
	Timber scattering cedar and pinon.

Knowing the line bet.secs.1 and 2 will not close within limits on the N. Bdy.of the Tp.

I run

N.0° 01'W.on a true line

Bet.secs.1 and 2.

	Over rolling,sandy land. Ascend.
0.25	Dry wash 3ft.deep,3 ft.wide,course N.W.
10.50	Top of ridge bears E.and W.
	Descend.
17.50	Dry wash 5 ft.wide,2 ft.deep,course N.W.
22.75	Wagon road, to Colorado
	bears N.E.and S.W.
40.00	Set a sandstone 16x10x4 ins.,11 ins.in the ground
	for ¼ sec.cor.,marked ¼ S. on the W. face,and raise

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS

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

Pits impracticable.

80.00 Intersect 4th.Standard Parallel South,3.20 chs.W.of the Standard Cor.to secs.35 and 36, heretofore described.

Set a sandstone 18x10x4 ins.,12 ins.in the ground for closing cor.of secs.1 and 2,marked with C.C. on the S.,1 groove on the E.and 5 grooves on the W.faces,and raise a mound of stone 2 ft.base,1½ ft.high,S.of cor.

Pits impracticable.

Land rolling.

Soil sandy 3rd.rate.

No timber.

May 5,1902.

May 6: At 8 a.m.,l.m.t.,I set off 38°56'29"N.on the lat.arc;16° 24'N.on the decl.arc; and determine a true meridian with the solar,at the cor. of secs.2-3- 34 and 35 on the S.Bdy.of the Tp.,heretofore described.Thence I run

N.0° 01'W.bet.secs.34 and 35.

Ascend over broken land.

23.00 Old road bears E.and W.

38.00 Top of ridge bears E.and W.

Descend.

40.00 Set a sandstone 16x12x4 ins.,11 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the W. face,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.

Pits impracticable.

40.50 Bottom of ravine 250 ft.deep,course E. Ascend.

58.50 Top of sandstone bluff 300 ft.high,projects E.

Begin abrupt descent.

76.00 Foot of steep descent,bears N.W.and S.E.

Over level bottom land.

80.00 Set a sandstone 18x14x5 ins.,12 ins.in the ground for cor.of secs.26-27-34 and 35,marked with 1 notch on

SUBDIVISIONS OF T.21 S.R.24 E.-CONTINUED.

CHAINS	
	the S. and 2 notches on the E. edges, and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony and rocky 3rd. and 4th. rate.
	No timber.
	Mountainous land on 80.00 chs.
	East on a random line bet. secs. 26 and 35
33.00	To right bank of Grand River, set temp. meander cor.
40.00	Point for ¼ sec. cor. falls in the Grand River.
	To determine the distance across the river, I set a flag on left bank of the river; then measure a base S. 18.00 chs. from the temp. meander cor. to a point, from which the flag bears N. 44°12'E.; from the flag the S. end of the base bears S. 44°12'W.; therefore the dist. is tan. 44°12' x base or 0.9724 x 18.00 17.50, which added to 33.00 makes
50.50	To left bank of Grand River, set temp. meander cor.
80.00	Intersect N. and S. line at the cor. of secs. 25-26-35 and 36. Thence I run
	West on a true line bet. secs. 26 and 35
	Ascend abruptly over sandstone ledges 100 ft. high bearing N. and S.
0.50	Top of ledge bears N. and S.
	Leave ledges.
	Gradual ascent over clay soil.
12.00	Top of ridge bears N.E. and S.W.
	Descend.
22.50	Top of sandstone ledges bear N. and S.
	Descend abruptly.
24.00	Bottom of ravine 75 ft. deep, course S.W.
	Ascend.
28.00	Top of sandstone bluff bears N. and S.
	Descend.

SUBDIVISIONS OF T.21 S.R.24 E.-CONTINUED.

CHAINS.	
29.50	Left bank of Grand River bank 40 ft.high, Set a sandstone 20x20x5 ins.15 ins.in the ground for meander cor.of fracl.secs.26 and 35,marked M.C.on W. face,and raise a mound of stone 2 ft.base 1½ ft. high E.of cor.Pits impracticable.
40.00	Point for ¼ sec.cor.falls in the river.
47.00	Right bank of Grand River bank 15 ft.high. Set a shale stone 24x12x8 ins.18 ins.in the ground for meander cor.to fracl.secs.26 and 35,marked M.C. on E.face and W.C.¼ S.on N.face for witness ¼ sec. cor.;dig a pit 36x36x12 ins.8 ft.W.of stone,and raise a mound of earth 4 ft.base 2 ft.high W.of cor. Over level bottom land.
47.40	Stake and rider fence bears N.and S. Enter cultivated land.
73.35	Stake and rider fence bears N.and S.
80.00	The cor.of secs.26-27-34 and 35. Land rolling and mountainous. Soil sandy loam and stony 2nd.and 3rd.rate. Mountainous land on 29.50 chs.

N.0°01'W.bet.secs.26 and 27

	Over bottom land.
3.00	Enter heavy cottonwood timber bears N.W.and S.E.
40.00	Set a cottonwood post 4 ft.long 4 ins.sq.,with marked stone 36 ins.in the ground for ¼ sec.cor.,marked ¼ S.27 on the W.and 26 on the E.faces;dig pits 18x 18x12 ins.N.and S.of post 3 ft.dist.,and raise a mound of earth 3½ ft.base 1½ ft.high W.of cor.
45.00	A.W.Morse's cabin bears West about 25 chs.
51.20	Right bank of W.channel of Grand River,bank 15 ft. high.Set an oak post 3 ft.long 4 ins.sq.,24 ins.in the ground for meander cor.of fracl.secs.26 and 27 marked M.C.on N. T.21 S.on the S. R.24 E.S.R3 on the E.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	and S.27 on the W.faces;from which
	A cottonwood 24 ins.diam.,bears S.41° 30'W.,42 lks. dist.,marked T.21 S. R.24 E. S.27 M.C. B.T.
	A cottonwood 22 ins.diam.,bears S.77° E.,69 lks.dist. marked T.21 S. R.24 E. S.26 M.C. B.T.
	To determine the dist.across the west channel of Grand River,I set a flag on the left bank of the channel on line;then measure a base S.89° 59'W., 6.00 chs.to a point from which the flag bears N.49° 55'E. From the flag the W.end of the base bears S.49° 55'W.,therefore the dist.is tan.40° 04' X 6.00 or 0.841 X 6.00 = 5.05chs.,which added to 51.20 makes
56.25	To left bank of west channel of Grand River,bank 4 ft.high.
	On an island in Grand River.
	Set a sandstone 24x10x4 ins.,18 ins.in the ground for meander cor.to fracl.secs.26 and 27,marked M.C. on the S.face,
	and raise a mound of stone 2 ft.base,1½ ft.high, N.of cor.
	Pits impracticable.
	Enter dense growth of willow and cottonwood brush and scattering Cottonwood timber.
80.00	Set a sandstone 16x10x6 ins.,11 ins.in the ground for cor.of secs.22-23-26 and 27,marked with 2 notches on the S.and E. edges,and from which
	A Cottonwood 4 ins.diam.bears N.20° E.,25 lks.dist., marked T.21 S. R.24 E. S.23 B.T.
	A Cottonwood 12 ins.diam.,bears S.52°E.,26 lks.dist., marked T.21 S. R.24 E. S.26 B.T.
	A Cottonwood 14 ins.diam.,bears S.63°W.,13 lks.dist., marked T.21 S. R.24 E. S.27 B.T.
	A Cottonwood 14 ins.diam.,bears N.11°W.,1.00 ch.dist., marked T.21 S. R.24 E. S.22 B.T.
	Land bottoms.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Soil sandy loam 2nd.rate.
	Timber cottonwood on 71.95 chs.
	Heavily timbered or dense undergrowth on 71.95 chs.
	May 6: At this cor.I set off 16° 27'N.on the decl. arc;and at 11 h.57 m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38° 58'N.

	East on a random line bet.secs.23 and 26.
1.50	Right bank of east channel of Grand River.
	Set temp.meander cor.
	To determine the dist.across the channel,I set a flag on left bank channel;then measure a base S.10.00 chs. to a point,from which the flag bears N.44° 50' E.; From the flag the S.end of the base bears S.44° 50'W. therefore the dist.is tan.44° 50' X base,or 0.994 X 10.00 = 9.94 chs.,which added to 1.50 makes
11.44	To left bank of east channel of Grand River.
	Set temp.meander cor.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.00	Intersect N.and S. line at the cor.of secs. 23-24-25 and 26.
	Thence I run
	West on a true line bet. Secs.23 and 26.
	Over stony land descend.
21.00	Bottom of ravine 100 ft.deep,course S.W.
	Ascend.
40.00	Set a sandstone 12x8x6 ins.,8 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the N.face,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
42.00	Top of rocky ridge bears N.E.and S.W.
	Descend.
48.50	Bottom of ravine 50 ft.deep, course S.W.
	Ascend.
67.00	Top of sandstone bluff bears N.and S.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Descend.
68.56	Left bank of east channel of Grand River,
	bank 30 ft.high.
	Set a sandstone 20x10x5 ins.,15 ins.in the ground for
	meander cor.to fracl.secs.23 and 26,marked
	M.C.on W.face,
	and raise a mound of stone 2 ft.base,1½ ft.high,
	E.of cor.
	Pits impracticable.
78.50	Right bank of east channel of Grand River,
	bank 6 ft.high. On an island in Grand River.
	Set a sandstone I5x 12x5 ins.,10 ins.in the ground
	for meander cor.to fracl.secs. 23 and 26,marked
	M.C.on E.face,
	and raise a mound of stone 2 ft.base,1½ ft.high,
	W.of cor.
	Pits impracticable.
	Enter dense willow and cottonwood brush and cottonwood
	timber.
80.00	The cor.of secs.22-23-26 and 27.
	Land mountainous and bottom land.
70.06 / 9.94	Soil sandy and stony 2nd.and 3rd.rate.
	Timber cottonwood on 1.50 chs.
	Mountainous land on 68.56 chs.
	Dense undergrowth on 1.50 chs.

	N.0° 0I'W.bet,secs.22 and 23.
	Over bottom land,through dense brush.
3.10	Right bank of east channel of Grand River.
	bank 6 ft.high.
	Set a sandstone 18x10x4 ins.,12 ins.in the ground
	for meander cor.to fracl.secs.22 and 23,marked
	M.C.on N.face,
	from which
	A Cottonwood 14 ins.,bears S.25°E.6 lks.dist.,
	marked T.21 S. R.24 E. S.23 M.C. B.T.

SUBDIVISIONS OF T.21 S. R.24 E.,continued,

CHAINS	
	No other trees within limits.
	Dig a pit,36x36x12 ins.,8 ft.S.of stone;and raise a mound of earth,4 ft.base,2 ft.high,S.of cor.
	To determine the dist.across the east channel of Grand River,I set a flag on the left bank of the channel on line;then measure a base S.89° 59'W., 28.00 chs.to a point from which the flag bears N. 45° 04'E.;From the flag the west end of the base bears S.45° 04'W.,therefore the dist.is tan.44° 55' X 28.00 or 0.9971 X 28.00 = 27.92 chs.,which added to 3.10 makes
31.02	Left bank of east channel of Grand River, bank 5 ft. high.
	Set a sandstone 15x6x4 ins.10 ins.in the ground for meander cor.of fracl.secs.22 and 23,marked M.C.on the S.face,
	and raise a mound of stone 2 ft.base,1½ ft.high, N.of cor.
	Pits impracticable.
	Ascend over rolling land.
40.00	Set a sandstone 18x6x5 ins.,12 ins,in the ground for ¼ sec.cor.,marked ¼ S.on the W.face,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
57.25	Pole fence bears N.E.and S.W.
61.00	Top of spur projects W.
	Descend.
63.00	Bottom of ravine 25 ft.deep,course W.
	Ascend.
68.60	Pole fence bears E.and W.
76.00	Begin descent.
80.00	Set a cobble stone 15x8x8 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.edges,dig pits 18x18x12 ins.,in each sec.5½ ft.dist.;and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.
3.10 / 16.90	

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Land rolling.
	Soil sandy loam and clay 2nd.rate.
	Timber scattering cottonwoods on 3.10 chs.
	Dense undergrowth on 3.10 chs.
	May 6,1902.

	May 7: At 8 a.m.,l.m.t.,I set off 38° 59'N.on the lat.arc;16° 41'N.on the decl.arc;and determine a true meridian with the solar at the cor.of secs.14-15-22 and 23.
	Thence I run
	East on a random line bet.secs.14 and 23.
40.00	Set temp.¼ sec.cor.
41.00	Left bank of Grand River.
	Set temp.meander cor.
	To determine the dist.across the river,I set a flag on the right bank of the river;then measure a base S.,20.00 chs.dist.to a point,from which the flag bears N.44° 06'E.;From the flag the S.end of the base bears S.44° 06'W.,therefore the dist.is tan.44° 06' X base,or 0.969 X 20.00 = 19.38 chs.,which added to 41.00 makes
60.38	To right bank of Grand River.
	Set temp.meander cor.
80.00	Intersect N.and S. line at the cor.of secs. 13-14-23 and 24.
	Thence I run
	West on a true line bet. Secs.14 and 23.
	Descend over stony land.
3.00	Bottom of Cottonwood Wash,100 ft.deep,course S.E.
	Ascend.
15.00	Top of sandstone bluff 150 ft.high,bears N.and S.
	Abrupt descent.
19.62	Right bank of Grand River,bank 12 ft.high.
	Set a sandstone 20x15x8 ins.,15 ins.in the ground for meander cor.to fracl secs 14 a l 23 marked

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	M.C.on W.face,
	and raise a mound of stone 2 ft.base,1½ ft.high,
	E.of cor.
	Pits impracticable.
39.00	Left bank of Grand River,bank 30 ft.high.
	Point for meander cor.falls on a smooth sandstone
	ledge;I cut a cross ,X, at exact point for meander
	cor.to fracl.secs.14 and 23,marked
	M.C.on E.side of cross,
	and raise a mound of stone 2 ft.base,1½ ft.high,
	W.of cor.
	Pits impracticable.
40.00	Set a sandstone 15x10x6 ins.,10 ins.in the ground
	for ¼ sec.cor.,marked ¼ S. on N.face,and raise a
	mound of stone 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
44.00	Top of ridge bears N.W.and S.E.
	Descend.
	Enter dense artemisia.
79.05	Pole fence bears N.and S.
80.00	The cor.of secs.14-15-22 and 23.
	Land mountainous and rolling.
	Soil sandy and stony 3rd.and 4th.rate.
	No timber.
	Mountainous land or dense undergrowth on 60.62 chs.

N.0° 01'W.bet.secs.14 and 15.

	Descend over nearly level land through dense
	artemisia and willow brush.
3.20	Pole fence bears N.E.and S.W.
6.70	Right bank of Grand River,bank 12 ft.high.
	Set a sandstone 16x8x6 ins.,11 ins.in the ground
	for meander cor.to fracl.secs.14 and 15,marked
	M.C.on N.face,
	and raise a mound of stone 2 ft.base,1½ ft.high,
	S.of cor.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Pits impracticable.
	To determine the dist.across the river,I set a flag on the left bank of the river;then measure a base S.89° 59'W.,10.00 chs.to a point,from which the flag bears N.44° 57' E.;From the flag the W.end of the base bears S.44° 57' W.,therefore the dist.is tan.45° 02' X base,or 1.001 X 10.00 = 10.01 chs.,which added to 6.70 makes
16.71	To left bank of Grand River,bank 8 ft.high.
	Set a sandstone 24x20x5 ins.,18 ins.in the ground for meander cor.to fracl.secs.14 and 15,marked M.C.on S.face,
	dig a pit 36x36x12 ins.,8 ft.N.of stone;and raise a mound of earth 4 ft.base,2 ft.high,N.of cor.
	Ascend through dense willow brush.
19.00	Leave brush.
20.50	Log cabin of Mrs.Gussie Devine,on line,20x40 ft bears E.and W. Wm.Shidler's house bears E.about 12 chs.
29.00	Enter dense undergrowth.
40.00	Set a sandstone 15x10x5 ins.,10 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the W.face,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
53.00	Foot of sandstone ledges bear E.and W.
	Begin abrupt ascent.
55.00	Top of abrupt ascent 200 ft.high.
	Ascend over sandstone ledges.
67.00	Wagon road,
	bears N.E.and S.W.
76.50	Top of sandstone ridge bears E.and W.
	Descend.
80.00	Falls on smooth sandstone ledge,I cut a cross at exact point for cor.of secs.10-11-14 and 15,marked 4 grooves on S.and 2 grooves on E.side of cross and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.

69.99/10.01

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Land mountainous and bottom land.
	Soil sandy loam and rocky,2nd.,3rd,and 4th.rate.
	No timber.
	Mountainous land or dense undergrowth on 69.99 chs.

	East on a random line bet.secs.11 and 14.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.04	Intersect N.and S.line at the cor.of secs. 11-12-13 and 14.
	Thence I run
	West on a true line bet.
	Secs.11 and 14.
	Ascend through scattering cedar and pinon timber.
21.00	Top of ridge bears N.and S.
	Descend.
29.50	Dry run course S.
	Ascend.
40.02	Set a sandstone 18x15x6 ins.,12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the N.face,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high.N.of cor.
	Pits impracticable.
42.00	Point of a sandstone spur 100 ft.high,projects S.
	Descend.
51.00	Creek 2 lks.wide,2 ins.deep,in Agate Wash 150 ft. deep,course S.E. Ascend
	W. Shidler's dwelling house bears N. 10.00 chs.
74.50	Top of sandstone bluff 250 ft.high,bears N.and S.
	Descend.
80.04	The cor.of secs.10-11-14 and 15.
	Land mountainous.
	Soil stony 3rd.rate.
	Timber scattering cedar and pinon.
	Mountainous land on 80.04 chs.
	May 7: At this cor.I set off 16° 43'N.on the decl. arc;and at 11 h.56 m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39° 0'N.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	N.0° 01'W.bet.secs.10 and 11.
	Descend over sandstone ledges through scattering cedar and pinon timber.
23.00	Leave sandstone ledges bear N.W.and S.E.
	Leave timber.
	Enter dense undergrowth.
27.50	Creek 21ks.wide,2 ins.deep,in Agate Wash,200 ft.deep, course S.E.
	Ascend.
33.00	Sandstone ledges bear N.W.and S.E.
40.00	Top of sandstone spur,200 ft.above Agate Wash,bears E.and W.
	I cut a cross at the exact point for ¼ sec.cor. mark ¼ S.on W.side of cross,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Descend.
68.75	Wagon road, to Colorado bears N.E.and S.W.
73.25	Bottom of ravine 100 ft.deep,course S.W.
	Ascend.
75.00	Top of ridge bears N.E.and S.W.
	Descend.
80.00	Set a quartzite stone 18x9x8 ins.,12 ins.in the ground for cor.of secs.2-3-10 and II,marked with 5 notches on the S.and 2 notchson the E.edges,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony 3rd.rate.
	Timber scattering cedar and pinon.
	Mountainous land on 80.00 chs.

	East on a random line bet.secs. 2 and 11.
40.00	Set temp.¼ sec.cor.
40.02	Intersect N.and S.line at the cor.of secs.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	1-2-11 and 12.
	Thence I run
	West on a true line bet.
	Secs.2 and 11.
	Descend over sandy soil.
26.00	Wagon road,to Colorado
	bears N.E.and S.W. in bottom of ravine 75 ft.deep,
	course S.W.
	Ascend.
40.01	Set a limestone 15x12x6 ins.,10 ins.in the ground
	for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the N.face,and raise
	a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
41.00	Top of spur projects S.
	Descend.
61.50	Bottom of ravine 40 ft.deep,course S.
	Ascend.
68.50	Top of ridge bears N.E.and S.W.Descend.
80.02	The cor.of secs.2-3-10 and 11.
	Land rolling.
	Soil sandy 3rd.rate.
	No timber.

	Knowing the line bet.secs.2 and 3 will not close
	within limits on the N.Bdy.of the Tp.
	I run
	N.0° 01'W.on a true line
	Bet.secs.2 and 3.
	Descend over sandy land.
18.75	Bottom of ravine 75 ft.deep,course W.
	Ascend.
29.00	Top of ridge bears N.E.and S.W.
	Descend.
39.50	Bottom of ravine 50 ft.deep,courae W.
	Ascend.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

Chains	
40.00	Set a sandstone 18x10x6 ins.,12 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the W.face,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
42.00	Top of spur projects W.
	Descend.
51.50	Wash 8 ft.wide,4 ft.deep in bottom of ravine 150 ft. deep,course S.W.
	Ascend.
79.95	Intersect 4th.Standard Parallel South,3.18 chs.W.of the Standard Cor.to secs.34 and 35.
	heretifore described.
	Set a sandstone 20x10x5 ins.,15 ins.in the ground for closing cor.to secs.2 and 3,marked C.C.on the S., 2 grooves on the E.and 4 grooves on the W.faces, dig pits,24x18x12 ins.crosswise on each line,E.and W. 3 ft.and S.of stone 7 ft.dist.;and raise a mound of earth,4 ft.base,2 ft,high,S.of cor.
	Land rolling.
	Soil sandy 3rd.rate.
	No timber.
	May 7,1902.

May 8 : At 8 a.m.,l.m.t.,I set off 38° 56'29"N.on the lat.arc; I6° 58'N.on the decl.arc;and determine a true meridian with the solar at the cor.of secs.3-4-33 and 34,heretofore described on the S.Bdy.of the Tp.

Thence I run

N.0° 02'W.bet.secs.33 and 34.

	Ascend over broken land.
3.00	Top of spur projects E.
	Descend.
40.00	Set a sandstone 18x10x8 ins.,12 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the W. face,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.

SUBDIVISIONS OF T.21 S1 R.24 E.,continued.

CHAINS	
	Pits impracticable.
40.20	Bottom of ravine 200 ft.deep,course S.E.
	Ascend.
53.00	Top of sandstone ledges 200 ft.above the ravine, bear N.W.and S.E.
	Gradual ascent.
80.00	Set a sandstone 15x10x6 ins.,10 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.edges,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony 3rd.rate No timber. Mountainous land on 80.00 chs.
	East on a random line bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S. line at the cor. of secs. 26-27-34 and 35.
	Thence I run West on a true line bet. Secs.27 and 34.
	Ascend over sandy land.
5.00	Foot of sandstone bluff bears N.W.and S.E.
	Begin abrupt ascent.
40.00	Set a sandstone 15x8x4 ins.,10 ins.in the ground for ¼ sec.cor.,marked ¼S. on the N.face,and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
41.50	Top of abrupt ascent and ridge 400 ft.above sec.cor., bears N.W.and S.E.
	Descend.
65.50	Dry run course S.
	Ascend.
80.00	The cor.of secs.27-28-33 and 34.
	Land mountainous.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	May 8: At this cor.I set off 17° 0'N.on the decl. arc;and at II h.56 m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38° 58'N.

	East on a random line bet.secs.22 and 27.
27.00	Right bank of west channel of Grand River.
	Set temp.meander cor.
	To determine the dist.across the channel,I set a flag on the left bank of the channel;then measure a base,S.13.00 chs.to a point,from which the flag bears N.43° 11'E.;From the flag the S.end of the base bears S.43° 11'W.,therefore the dist.is tan.43° 11' x 13.00 or 0.9385 X 13.00 = 12.20 chs.,which added to 27.00 makes
39.20	To left bank of west channel of Grand River,on island.
	Set temp.meander cor.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N.and S.line at the cor.of secs. 22-23-26 and 27.
	Thence I run
	West on a true line bet.
	Secs.22 and 27.
	Descend gradually over sandy land through dense willows and scattering cottonwood timber.
25.00	Wagon road,bears N.and S.
40.04	Set a Shale stone 18x8x5 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the N.face,and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor. Pits impracticable.
40.88	Left bank of west channel of Grand River, bank 4 ft.high.
	Set a Shale stone 18x8x6 ins.,12 ins.in the ground for meander cor.to fracl.secs.22 and 27,marked M.C.on the W.face,
	and raise a mound of stone 2 ft.base,1½ ft.high, See pg. 405

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS

Soil rocky 4th.rate.

No timber.

Mountainous land on 80.00 chs.

N.0° 02'W.bet.secs.27 and 28.

Descend over broken land.

1.00 Dry run course W.

Ascend.

11.00 Top of spur projects W.

Descend.

17.00 Begin ascent.

23.00 Top of sandstone knoll bears E.and W.

Descend.

27.50 Begin abrupt ascent.

33.65 Top of rocky ridge bears N.W.and S.E.

Point for ¼ sec.cor.falls on steep slope subject to slides,I therefore set a sandstone 18x12x8 ins.,12 ins.in the ground for witness cor.to ¼ sec.cor., marked W.C. ¼ S. on the W.face,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.

Pits impracticable.

Begin abrupt descent over slide rock.

40.00 Point for ¼ sec.cor.falls on slide rock and cannot be set.

55.00 Foot of abrupt descent bears N.W.and S.E.

Gradual descent.

65.00 Wash 5 ft.wide,5 ft.deep,course N.E. Ascend.

80.00 Set a sandstone 20x15x8 ins.,15 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,1½ ft.high,W.of cor.

Pits impracticable.

This cor.is 300 ft.below the witness cor.

Land mountainous.

Soil rocky 4th.rate.

No timber.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	E.of cor.
	Pits impracticable.
53.08	Right bank of west channel of Grand River,
	top of perpendicular sandstone ledges I50 ft.high,
	bear N.W.and S.E.
	Set a sandstone 15x8x6 ins.,10 ins.in the ground
	for meander cor.to fracl.secs.22 and 27,marked
	M.C.on the E.face,
	and raise a mound of stone 2 ft.base,1½ ft.high,
	W.of cor.
	Pits impracticable.
53.35	Top of ridge bears N.and S.
	Descend over broken land.
75.00	Bottom of ravine 100 ft.deep,course N.E.
	Ascend.
80.08	The cor.of secs.2I-22-27 and 28.
67.88/1220	Land mountainous.
	Soil sandy and rocky 2nd.and 3rd.rate.
	Timber scattering cottonwoods.
	Mountainous land or dense undergrowth on 67.88 chs.

	N.0° 02'W.bet.secs.2I and 22.
	Over rolling land.
8.00	Bottom of ravine 50 ft.deep,course E.
	Ascend.
36.50	Wagon road from Cisco to Rio Grande Western R.R.
	Pump Station on Grand River,bears N.E.and S.W.
40.00	Set a sandstone 18x9x6 ins.,12 ins.in the ground
	for ¼ sec.cor.,marked ¼ S. on the W. face,and raise
	a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
47.00	Begin abrupt ascent over conglomerate ledges bear
	N.E.and S.W.
68.00	Top of rocky spur 300 ft.above ¼ sec.cor.,
	projects E.
	Begin abrupt descent.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Ascend.
80.00	Falls on a Boulder 5x3x2 ft.above ground,I cut a cross at exact point for cor.of secs.15-16-21 and 22,mark
	T.21 S.on N.E.,
	R.24 E.on S.E.
	and 3 grooves on S.and E.sides of cross,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil sandy and rocky 3rd.and 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.
	May 8,1902.

	May 9: At 8 a.m.,l.m.t.,I set off 38° 59'N.on the lat. arc;17° 14'N.on the decl.arc;and determine a true meridian with the solar at the cor.of secs. 15-16-21 and 22.
	Thence I run
	East on a random line bet.secs.15 and 22.
39.35	Right bank of Grand River. Set temp.meander cor.
40.00	Point for ¼ sec.cor.falls in Grand River.
	To determine the dist.across the river,I set a flag on the left bank of the river;then measure a base N.,10.00 chs.from temp.meander cor.to a point,from which the flag bears S. 44° 58'E.;From the flag the N.end of the base bearsN44° 58'W.,therefore the dist.is tan.44° 58' X base,or 0.9988 X 10.00 = 9.99 chs.,which added to 39.35 makes
49.34	To left bank of Grand River.
	Set temp.meander cor.
80.00	Intersect N.and S. line at the cor.of secs. 14-15-22 and 23.
	Thence I run
	West on a true line bet.
	Secs.15 and 22.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Descend gradually over sandy land through dense undergrowth.
2.50	Irrigating ditch 3 lks.wide,12 ins.deep,course S.
	Log cabin belonging to Henry Knoll bears N.,5.00 chs. dist.
10.75	Wagon road bears N.E.and S.W.
30.66	Left bank of Grand River,bank 5 ft.high.
	Set a cottonwood post 3ft.long,4 ins.sq.;with marked stone 24 ins.in the ground for,for meander cor.of fracl.secs.15 and 22,marked
	M.C.on W.,
	T.21 S.on E.,
	R.24 E.,S.15 on N.,and
	S.22 on S.faces;dug a pit,36x36x12 ins.,8 ft.E.of post;and raise a mound of earth,4 ft.base,1½ ft. high,E.of cor.
40.00	Point for ¼ sec.cor.falls in the river.
40.65	Right bank of Grand River,bank 10 ft.high.
	Set a sandstone 20x15x6 ins.,15 ins.in the ground for meander cor.to fracl.secs.15 and 22,marked
	M.C.on E.face,
	and raise a mound of stone 2 ft.base,1½ ft.high, W.of cor.
	Pits impracticable.
	Ascend over broken and rocky land.
49.50	Top of rocky ridge 100 ft.above the river,bears N.and S.
	Descend.
53.00	Bottom of ravine 100 ft.deep,course S.
	Ascend.
61.00	Top of rocky spur projects S.E.
	Descend.
74.00	Wagon road in bottom of ravine 100 ft.deep, course S.E.,road to Colorado.
	Ascend.
80.00	The cor.of secs.15-16-21 and 22.

700

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Land mountainous and bottomland.
	Soil sandy loam 2nd.rate on 30.66 chs.
	balance rocky 3rd.and 4th.rate.
	No timber.
	Mountainous land on 39.35 chs.
	Dense undergrowth on 30.66 chs.

	N.0° 02'W.bet.secs.15 and 16.
	Ascend over rolling land.
20.00	Top of sand ridge bears E.and W.
	Descend.
36.75	Bottom of ravine 100 ft.deep,course E.
	Ascend.
40.00	Set a sandstone 18x12x4 ins.,12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the W.face,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
53.50	Top of ridge bears E.and W.
	Enter dense undergrowth.
	Descend.
80.00	Set a sandstone 14x8x4 ins.,10 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.edges,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Land rolling.
	Soil sandy and rocky 3rd.rate.
	No timber.

	East on a random line bet.secs.10 and 15.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.04	Intersect N.and S.line at the cor. of secs. 10-11-14 and 15.
	Thence I run
	West on a true line bet.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Bet.sec.10 and 15.
	Descend over rolling sandstone ledges,through scattering cedar and pinon timber.
14.00	Leave ledges bear N.and S.
19.00	Road [illegible] in bottom of ravine 75 ft.deep,course S. road to Colorado. Ascend.
22.00	Top of ridge bears N.and S.
	Descend.
40.00	Set a sandstone 20x12x4 ins.,15 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the N. face,and raise a mound of stone 2 ft.base,1½ft.high,N.of cor.
	Pits impracticable.
50.50	Bottom of ravine 100 ft.deep,course S.
	Ascend.
77.00	Top of sandstone ledges 150 ft.above ¼ sec.cor.
	bear N.and S.
	Ascend.
80.04	The cor.of secs.9-10-15 and 16.
	Land mountainous.
	Soil rocky 4th.rate.
	Timber scattering cedar and pinon.
	Mountainous land on 80.04 chs.
	May 8. At this cor.I set off 17°16'N.on the decl.arc; and at 11 h.56 m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39° 0'N.

N.0° 62'W.bet.secs.9 and 10.

	Ascend over rolling land.
20.00	Top of ridge bears N.W.and S.E.
	Descend.
30.50	Bottom of ravine 150 ft.deep,course S.E.
	Ascend.
40.00	Top of spur projects W.
	Set a sandstone 24x8x6 ins.,18 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the W.face,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
48.25	Bottom of ravine 150 ft.deep,course S.W.
	Ascend.
60.00	Top of spur projects E.
	Descend.
63.00	Same ravine course S.E.
	Ascend.
66.50	Descend.
70.00	Same ravine course S.W.
	Ascend.
72.00	Descend.
75.00	Same ravine course S.E.
	Ascend,over sandstone ledges.
79.00	Top of ledges bear E.and W.
80.00	Set a sandstone 24x10x8 ins.,18 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.edges,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony 3rd.rate.
	No timber.
	Mountainous land on 80.00 chs.

	East on a random line bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S. line at the cor.of secs. 2-3-10 and 11.
	Thence I run
	West on a true line bet.
	Secs.3 and 10.
	Descend over broken land.
1.00	Dry run course S.W.
	Ascend.
6.00	Top of spur projects S.W.
	Descend.
12.00	Agate Wash in ravine 75 ft.deep courseS.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Ascend.
40.00	Set a sandstone 16x10x6 ins.,11 ins.in the gr und for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the 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 rocky ridge bears N.E.and S.W.
	Descend.
71.00	Bottom of ravine 100 ft.deep,courseS.W.
	Ascend.
77.00	Top of ridge bears N.and S.
	Descend.
80.00	The cor.of secs.3-4-9 and 10.
	Land mountainous.
	Soil stony 3rd.rate.
	No timber.
	Mountainous land on 80.00 chs.

	Knowing the line bet.secs.3 and 4 will not close within limits on the N.Bdy.of the Tp.
	I run
	N.0° 02'W.on a true line
	Bet.secs.3 and 4.
	Descend over broken land.
2.00	Wash 10 ft.wide,15 ft.deep,course W.
21.80	Rio Grande Western R.R.,bears N.40°E.& S.40°W.
22.00	Telegraph line bears N.E.and S.W.
28.50	Wash 30 ft.wide,10 ft.deep,coursew.
40.00	Set a sandstone 18x10x6 ins.,12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the W. face,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
40.50	Wash 5 ft.deep,20 ft.wide,course S.E.
67.00	Foot of descent bears N.E.and S.W.
	Ascend over broken clay land and sandstone ledges.
80.00	Intersect 4th.Standard Parallel South,3.15 chs.W.of the Standard Cor.to secs.33 and 34.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	heretofore described.
	Set a sandstone 15x10x4 ins.,10 ins.in the ground for closing cor.to secs.3 and 4,marked C.C.on the S. with 3 grooves on the E.and W. faces,and raise a mound of stone 2 ft.base,1½ ft.high,S.of cor.
	Pits impracticable.
	Land rolling.
	Soil stony 3rd.rate.
	No timber.
	May 9,1902.
	May 10: At 8 a.m.,l.m.t.,I set off 38° 56'27N.on the lat.arc;17° 30' N. on the decl.arc; and determine a true 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
	N.0° 03'W.bet.secs.32 and 33.
	Descend over rolling land.
9.15	Wash 4x4 ft.course N.E.
22.50	Wash,4 ft.deep,6 ft.wide,course N.E.
	Ascend.
40.00	Top of ridge bears N.E.and S.W.
	Set a sandstone 15x10x4 ins.,10 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the W.face,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Descend.
62.50	Wash 6x6ft.course N.E.
80.00	Set a sandstone 15x14x4 ins.,10 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.edges,dig pits, 18x18x12 ins.in each sec.,5½ ft.dist.;and raise a mound of earth 4 ft.base,2 ft.high,W.of cor.
	Land rolling.
	Soil stony 3rd.rate.
	No timber.

SUBDIVISION OF T.21 S. R.24 E.,continued.

CHAINS	
	East on a random line bet.secs.28 and 33.
40.00	Set temp. ¼ sec.cor.
80.06	Intersect N.and S. line at the cor. of secs. 27-28-33 and 34.
	Thence I run
	West on a true line bet. secs.28 and 33.
	Descend over rolling land.
30.50	Wash 4x4 ft.,course S.W.
40.03	Set a sandstone 15x10x4 ins.,10 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the N.face,and dig pits 18x18x12 ins.,E.and W.of stone,3 ft.dist.,and raise a mound of earth 3½ft.base,1½ ft.high,N.of cor.
41.80	Wash 8 ft.wide,5 ft.deep,course S.
43.70	Wash 8 ft.deep,20 ft.wide,course S.E.
70.80	Wash 5x5 ft. course N.E.
80.06	The cor.of secs.28-29-32 and 33.
	Land rolling.
	Soil clay 3rd.rate.
	NO timber.

	N.0° 03'W.bet.secs.28 and 29.
	Descend over rolling land.
5.15	Wash 10 ft.wide,6 ft.deep,course E.
13.10	Wash 4x4 ft.,course S.W.
19.50	Wash 4x4 ft.,course S.E.
23.50	Old road bears N.E.and S.W.
40.00	Set a sandstone 16x10x5 ins.,11 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the W.face,dig pits 18x18x12 ins.N.and S. of stone,3 ft.dist.,and raise a mound of earth 3½ ft.base,1½ ft.high,W.of cor.
47.60	Old road bears N.E.and S.W.
	Ascend.
58.00	Ascend over sandstone ledges bearing E.and W.
70.00	Top of ledges bear N.E.and S.W.
80.00	Set a sandstone 18x10x4 ins.,12 ins.in the ground for

SUBDIVISION OF T.21 S. R.24 E.,continued.

CHAINS	
	cor.of secs.20-21-28 and 29,marked with 2 notches on the S.and 4 notches on the E.edges,dig pits 18x18x12 ins.,in each sec.,5½ ft.dist.,and raise a mound of earth 4 ft.base,2 ft.high,W.of cor.
	Land rolling.
	Soil clay and stony 3rd.rate.
	No timber.
	May 10: At this cor.I set off 17° 32'N.on the decl. arc;and at 11 h. 56 m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat. is 38° 58'N.
	East on a random line bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,12 lks.N.of the cor.of secs.21-22-27 and 28.
	Thence I run N.89° 55'W.on a true line Bet.secs.21 and 28.
	Ascend over stony land.
4.00	Top of spur projects N.E.
	Descend.
11.00	Sornson's Wash 50 ft.wide,20 ft.deep,course N.E.
	Ascend.
21.00	Old road bears N.W. and S.E.
24.75	Clay knoll 5o ft.high,on line. Descend.
28.00	Wagon road from Cisco to Rio Grande Western R.R. Pump Station on Grand River,bears N.E.and S.W.
30.00	Same road bears N.W.and S.E.
31.00	Sornson's Wash 15 ft.wide,10 ft.deep,course S.E.
	Ascend.
39.15	Clay knoll 150 ft.high,bears N.and S. Descend.
40.00	Set a sandstone 15x10x4 ins.,10 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the N.face,and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
63.00	Begin abrupt ascent over sandstone ledges bearing N.E. and S.W.
80.00	The cor.of secs.20-21-28 and 29.
	Land mountainous.
	Soil stony 3rd.rate.
	No timber.
	Mountainous land on 80.00 chs.

	N.0° 03'W.bet.secs.20 and 21.
	Descend over rolling land.
8.10	Wash 4x4 ft.,course W.
17.90	Wagon road from Cisco to Rio Grande Western R.R. Pump Station on Grand River,bears E.and W.
31.00	Begin abrupt descent.
34.00	Bottom of ravine 100 ft.deep,course E.
	Ascend.
40.00	Top of spur,projects N.E.
	Set a sandstone 16x11x4 ins.,11 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the W.face,and raise a mound of stone 2 ft. base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Descend.
49.65	Wash 20 ft.wide,5 ft.deep,course N.E.
56.00	Bottom of ravine 100 ft.deep,course S.E.
	Ascend.
62.80	Wash 6x6 ft.course S.W.
80.00	Set a sandstone 18x12x4 ins.,12 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.edges,and dig pits 18x18x12 ins.,in each sec.,$5\frac{1}{2}$ ft.dist.,and raise a mound of earth 4 ft.base,2 ft.high,W.of cor.
	Land mountainous.
	Soil stony 3rd.rate.
	No timber.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	S.89° 55'E.on a random line bet.secs.16 and 21.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N.and S. line,7 lks.S.of the cor.of secs.15-16-21 and 22.
	Thence I run
	N.89° 58'W.on a true line
	Bet.secs.16 and 21.
	Ascend over broken clay land and boulders.
34.00	Top of bluff bears N.W.and S.E.
40.04	Set a sandstone 20x12x6 ins.,15 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the N.face,and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
43.00	Top of ridge 300 ft.above the sec.cor.,bears N.and S.
	Descend.
55.00	Bottom of ravine 150 ft.deep,course S.,Sornson's Wash.
	Ascend.
72.00	Top of ridge bears N.and S.
	Descend.
77.25	Bottom of ravine 50 ft.deep,course S.
	Ascend.
80.08	The cor.of secs.16-17-20 and 21.
	Land mountainous.
	Soil clay and stony 4th.rate.
	No timber.
	Mountainous land on 80.08 chs.
	May 10,1902.

	May 11: At 8 a.m.,l.m.t.,I set off 38°59'N.on the lat. arc;17° 46'N.on the decl.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.
	Ascend over rolling land.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS

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

Descend.

40.00 Set a sandstone 15x12x4 ins.,10 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the W.face,dig pits 18x18x12 ins.N.and S.of stone ,3 ft.dist.,and raise a mound of earth 3½ ft.base,1½ ft.high,W.of cor.

66.00 Rio Grande Western R.R.,bears N.89° 30'E. and S.89°30'W.

67.00 Telegraph line bears N.E.and S.W.

80.00 Set a sandstone 18x12x4 ins.,12 ins.in the ground for cor.of secs.8-9-16 and 17,marked with 4 notches on the S.and E. edges,dig pits 18x18x12 ins.;in each sec. 5½ ft.dist.,and raise a mound of earth 4 ft.base, 2 ft.high,E.of cor.

Land rolling.

Soil sand and clay 3rd.rate.

No timber.

S.19° 58'E.on a random line bet.secs.9 and 16.

40.00 Set temp.¼ sec.cor.

80.38 Intersect N.and S. line 5 lks.E.of the cor.of secs.9-10-15 and 16.

Thence I run

West on a true line bet.

Secs.9 and 16

Descend over broken land.

5.00 Bottom of ravine 75 ft.deep,course S.

Ascend.

40.04 Set a sandstone 16x12x3 ins.,11 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the N. face,and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.

Pits impracticable.

41.00 Top of ridge bears N.and S.

Descend.

50.50 Bottom of ravine 100 ft.deep,course S.

Ascend.

59.70 Top of ridge bears N.and S.

Descend.

SUBDIVISIONS OF T.21 S. R. 24 E.,continued.

CHAINS	
72.00	Rio Grande R.R.,bears N.29° 30'E.& S.29°30'W.
72.60	Telegraph line bears N.E.and S.W.
75.50	Bottom of ravine 100 ft.deep,course S.E.Sornson's Wash.
	Ascend.
80.08	The cor.of secs.8-9-16 and 17.
	Land mountainous.
	Soil sandy and clay 3rd.rate.
	No timber.
	Mountainous land on 80.08 chs.

	N.0° 03'W.bet.secs.8 and 9.
	Descend.
0.25	Wash 20x20 ft.course N.E.,Sornson's Wash.
	Ascend.
30.00	Begin ascent over sandstone ledges bear N.W.and S.E.
40.00	Falls on a smooth sandstone ledge,I cut a cross at exact point for ¼ sec.cor. mark ¼ S. on W.side of cross,and raise a mound of stone 2 ft.base,1½ ft. high,W.of cor.
	Pits impracticable.
54.25	Top of ledges bear E.and W.
56.00	Top of ridge bears N.E.and S.W.
	Descend.
62.00	Bottom of ravine 150 ft.deep,course S.W.
	Ascend.
67.00	Top of spur projects W.
	Descend.
70.00	Bottom of ravine 150 ft.deep,course S.W.
	Ascend.
80.00	Set a limestone 15x8x5 ins.,10 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.edges,dig pits 18x18x12 ins.,in each sec.,5½ ft.dist.,and raise a mound of earth 4 ft.base,2 ft.high,W.of cor.
	Land mountainous.
	Soil sandy,stony and clay,3rd.rate.
	No timber.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Land mountainous on 80.00 chs.
	May 11: At this cor.I set off 17° 48'N. on the decl. arc;and at 11 h.56 m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39° 01'N.

	East on a random line bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S. line at the cor.of secs. 3-4-9 and 10.
	Thence I run
	West on a true line bet. Secs.4 and 9.
	Descend over broken land.
6.00	Junction of two ravines from the N.E.and N.W. course S.
	Ascend.
18.30	Rio Grande R.R.,bears N.40° E. and S.40°W.
19.00	Telegraph line bears N.E.and S.W.
40.00	Set a sandstone 18x12x4 ins.,12 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the N.face,and raise a mound of stone ,2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
64.00	Top of sandstone bluff 300 ft.above the ¼ sec.cor., bears N.and S.
65.00	Top of ridge bears N.E.and S.W.
	Descend.
80.00	The cor.of secs.4-5-8 and 9.
	Land mountainous.
	Soil clay and stony.
	No timber.
	Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.21 S. R. 24 E.,continued.

CHAINS	
	Knowing the line bet.secs.4 and 5 will not close within limits on the N.Bdy.of the Tp.
	I run
	N.0° 03'W.on a true line bet. Secs.4 and 5.
	Ascend over broken sandstone boulders and ledges.
36.00	Top of ridge bears E.and W.
	Descend.
40.00	Set a sandstone 16x10x6 ins.,11 ins.in the ground for ¼ sec.cor.,marked ¼ S.on the W.face,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
51.00	Ravine 150 ft.deep,course W.
	Ascend.
80.02	Intersect 4th.Standard Parallel South,3.14 chs.,W. of the Standard Cor.of secs.32 and 33, heretofore described.
	Set a sandstone 18x12x4 ins.,12 ins.in the ground for closing cor.to secs.4 and 5,marked C.C.on the S.,with 4 grooves on the E.and 2 grooves on the W.faces,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 on 80.02 chs.
	May 11,1902.

	May 12: At 8 a.m.,l.m.t.,I set off 38° 56'29"N on the lat.arc;18° 01'N.on the decl.arc;and determine a true meridian with the solar,at the cor.of secs.5-6-31 and 32,heretofore described,on the S.Bdy.of the Tp.
	Thence I run
	N.0° 03'W.bet.secs.31 and 32.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Descend over rolling land through scattering artemisia.
6.00	Wash 6x6ft.,course N.W.
	Ascend.
40.00	Set a shale stone 18x10x4 ins.,12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the W.face,dig pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.,and raise a mound of earth $3\frac{1}{2}$ ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
80.00	Set a sandstone 30x12x4 ins.,23 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.edges,dig pits 18x18x12 ins.,in each sec.,$5\frac{1}{2}$ ft.dist.,and raise a mound of earth 4 ft.base,2 ft.high,W.of cor.
	Land rolling.
	Soil clay 3rd.rate.
	No timber.
	East on a random line bet.secs.29 and 32.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.00	Intersect N.and S. line at the cor.of secs. 28-29-32 and 33.
	Thence I run
	West on a true line bet.
	Secs.29 and 32.
	Ascend over rolling land.
3.00	Top of ridge bears N.and S.
	Descend.
15.00	Wash 10 ft.wide,3 ft.deep,course N.W.
36.80	Wash 8x8 ft.,courseN.E.
40.00	Set a sandstone 15x10x4 ins.,10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the N.face,and dig pits 18x18x12 ins.E.and W.of stone ,3 ft.dist.,and raise a mound of earth $3\frac{1}{2}$ ft.base,$1\frac{1}{2}$ ft.high,N.of cor.
42.25	Old road bears N.and S.
78.85	Wagon road from Cisco to Richardson, bears N.W.& S.E.
80.00	The cor.of secs.29-30-31 and 32.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS

Land rolling.

Soil clay 2nd.rate.

No timber.

West on a random line bet.secs.30 and 31.

40.00 Set temp.¼ sec.cor.

77.54 Intersect Grand River Guide Meridian,at the cor. of secs.25-30-31 and 36, heretofore described.

Thence I run

East on a true line bet. Secs.30 and 31.

Over rolling land.

6.00 Wash 10 ft.wide,5 ft.deep,course N.

37.54 Set a redwood post 3 ft.long,3 ins.sq.,with marked stone 24 ins.in the ground for ¼ sec.cor.,marked ¼ S.30 on the N.and 31 on S.faces,dig pits 18x18x12 ins.,E.and W.of post 3 ft.dist.,and raise a mound of earth 3½ ft.base,1½ ft.high,N.of cor.

77.54 The cor.of secs.29-30-31 and 32.

Land rolling.

Soil clay 2nd.rate.

No timber.

N.0° 03'W.bet.secs.29 and 30.

Ascend over rolling land.

2.95 Wagon road from Cisco to Richardson bears N.W.& S.E.

40.00 Set a sandstone 16x10x4 ins.,11 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the W. face,dig pits 18x18x12 ins.,N.and S. of stone,3 ft.dist.,and raise a mound of earth 3½ ft.base,1½ ft.high,W.of cor.

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

63.00 Top of knoll 50 ft.high,bears E.and W.

Descend.

75.00 Bottom of ravine 40 ft.deep,course N.E.

Ascend.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
80.00	Set a shale stone 18x10x4 ins.,12 ins.in the ground for cor.of secs.19-20-29 and 30;marked with 2 notches on the S. and 5 notches on the E.edges,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land rolling.
	Soil clay 3rd.rate.
	No timber.
	May 12: At this cor.I set off 18° 03'N.on the decl. arc; and at 11 h. 56 m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38° 58'N.

	East on a random line bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S. line at the cor.of secs. 20-21-28 and 29.
	Thence I run
	West on a true line bet. Secs.20 and 29.
	Descend over rolling land.
12.00	Bottom of ravine 50 ft.deep,course N.
	Ascend.
40.01	Set a sandstone 18x9x6 ins.,12 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the N.face,and dig pits 18x18x12 ins.,E.and W.of stone,3 ft.dist.,and raise a mound of earth 3½ ft.base,1½ ft.high,N.of cor.
69.00	Top fo spur projects N.
	Descend.
74.50	Bottom of ravine 50 ft.deep,course N.E.
	Ascend.
80.02	The cor.of secs.19-20-29 and 30.
	Land rolling.
	Soil clay 2nd.rate.
	No timber.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	West on a random line bet.secs.19 and 30.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
77.42	Intersect Grand River Guide Meridian,at the cor. of secs.19-24-25 and 30, heretofore described.
	Thence I run
	East on a true line bet.secs.19 and 30
	Over rolling land.
4.00	Ridge bears N.E.and S.W.
28.50	Bottom of ravine 30 ft.deep,course S.
	Ascend.
33.50	Wagon road bears N.W.and S.E.,on top of ridge bears N.W.and S.E.
	Descend.
37.42	Set a sandstone 15x8x5 ins.,10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the N.face,dig pits 18x18x12 ins.,E.and W.of stone,3 ft.dist.,and raise a mound of earth $3\frac{1}{2}$ ft.base,$1\frac{1}{2}$ ft.high,N. of cor.
47.95	Bottom of ravine 40 ft.deep,course S.
	Ascend.
72.00	Top of ridge bears N.E.and S.W.
	Descend.
77.42	The cor. of secs.19-20-29 and 30.
	Land rolling.
	Soil clay 3rd.rate.
	No timber.

N.0° 03'W.bet.secs.19 and 20.

	Over rolling land ascend.
4.00	Top of spur projects NE.
	Descend.
9.00	Bottom of ravine 40 ft.deep,course E.
	Ascend.
14.00	Wagon road from Cisco to Rio Grande Western R.R.Pump Station on Grand River,bears E.and W.
37.00	Top of ridge bears N.E.and S.W.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Descend.
40.00	Set a shale stone 16x12x3 ins.,11 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the W. face,dig pits 18x18x12 ins.,N.and S. of stone,3 ft.dist.,and raise a mound of earth 3½ ft.base,1½ ft.high,W.of cor.
73.00	Bottom of ravine 100 ft.deep,course N.E.
	Ascend.
80.00	Set a shale stone 18x12x3 ins.,12 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.edges,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land rolling.
	Soil sandy and clay 3rd.rate.
	No timber.
	East on a random line bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line 5 lks.N.of the cor.of secs. 16-17-20 and 21.
	Thence I run N.89°58'W.on a true line bet. Secs.17 and 20.
	Descend over rolling land.
4.50	Wash,4 ft.wide,4 ft.deep course S.
39.50	Wash 20 ft.wide,10 ft.deep,course S.
40.00	Set a sandstone 18x10x4 ins.,12 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the N. face,and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
48.50	Wash 15 ft.wide,6 ft.deep,course S.E.
	Ascend.
72.00	Top of spur projects N.
	Descend.
75.00	Bottom of ravine 100 ft.deep,course N.E.
	Ascend.

SUBDIVISIONS OF T.21 S., R.24 E., continued.

CHAINS

80.12 The cor. of secs. 17-18-19 and 20.

Land rolling.

Soil clay 3rd. rate.

No timber.

May 12, 1902.

May 13: At 8 a.m., l.m.t., I set off 38° 59' N. on the lat. arc; 18° 16' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 17-18-19 and 20.

Thence I run

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

40.00 Set temp. ¼ sec. cor.

77.38 Intersect Grand River Guide Meridian, 5 lks. S. of the cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

S. 89° 58' E. on a true line

Bet. secs. 18 and 19.

Descend over rolling land.

33.50 Wash 3 ft. deep, 3 ft. wide, course S.E.

37.38 Set a pine post 3 ft. long, 2x4 ins. sq., with marked stone 24 ins. in the ground for ¼ sec. cor., marked ¼ S. 18 on the N. and 19 on the S. faces, dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.

40.00 Wash 5 ft. deep, 5 ft. wide, course N.E.

Ascend.

59.50 Top of spur projects N.E.

Descend.

62.00 Bottom of ravine 50 ft. deep, course N.E.

Ascend.

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

Descend.

77.38 The cor. of secs. 17-18-19 and 20.

Land rolling.

Soil clay 2nd. rate.

SUBDIVISIONS OF T.21 S. R.24 E., continued.

CHAINS	
	No timber.

	N.0° 03'W.bet.secs.17 and 18.
	Ascend.
1.00	Top of ridge bears N.E.and S.W.
	Descend.
10.00	Bottom of ravine 100 ft.deep,course E.
	Ascend.
15.65	Rio Grand Western R.R.,bears N.80°E.& S.80°W.
16.35	Telegraph line bears N.E.& S.W.
37.00	Top of ridge bears N.E.and S.W.
	Descend.
40.00	Set a limestone 18x10x4 ins.,12 ins.in the ground for ¼ sec.cor.,marked ¼ S, on the W.face,dig pits 18x18x12 ins.,N.and S. of stone,3 ft.dist.,and raise a mound of earth 3½ ft.base,1½ ft.high,W.of cor.
78.50	Bottom of ravine 100 ft.deep,course SW.
	Ascend.
80.00	Set a limestone 15x7x6 ins.,10 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.edges,dig pits 18x18x12 ins.in each sec.,5½ ft.dist.,and raise a mound of earth 4 ft.base,2 ft.high,W.of cor.
	Land mountainous.
	Soil stony 3rd.rate.
	No timber.
	Mountainous land on 80.00 chs.

	S.89° 58'E.on a random line bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line 5 lks.S.of the cor.of secs. 8-9-16 and 17.
	Thence I run
	West on a true line bet. secs.8 and 17.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS.	
	Descend.
0.50	Wash 25x25 ft.,course N.E.,Sornson's Wash.
3.00	Same wash course S.
	Ascend.
35.50	Top of ridge bears N.and S.
	Descend.
40.00	Set a sandstone 15x8x5 ins.,10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the N. face,and raise a mound of stone 2 ft.base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
78.00	Dry run course S.W.
	Ascend.
80.00	The cor.of secs.7-8-17 and 18.
	Land rolling.
	Soil clay 2nd.rate.
	No timber.

	N.89° 53'W.on a random line bet.secs.7 and 18.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
77.18	Intersect Grand River Guide Meridian,5 lks.N.of the cor.of secs.7-12-13 and 18, heretofore described.
	Thence I run
	East on a true line bet.
	Secs.7 and 18.
	Descend over rolling land.
23.00	Dry run course N.E.
	Ascend.
37.18	Set a shale stone 18x12x3 ins.,12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S. on the N. face,and raise a mound of stone 2 ft.base,1$\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.
42.00	Top of spur projects N.E.
	Descend.
76.50	Bottom of ravine 50 ft.deep,course S.E.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Ascend.
77.18	The cor.of secs.7-8-17 and 18.
	Land rolling.
	Soil clay 2nd.rate.
	No timber.

	N.0° 03'W.bet.secs.7 and 8.
	Over rolling land,ascend.
23.00	Top of ridge bears N.E.and S.W.
	Descend.
40.00	Set a limestone 13x9x5 ins.,9 ins.in the ground for ¼ sec.cor.,marked ¼ S. on the W. face, and dig pits, 18x18x12 ins.,N.and S. of stone,3 ft.dist.,and raise a mound of earth 3½ ft.base,1½ ft.gigh,W.of cor.
80.00	Set a lime stone 15x 8x5 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,dig pits 18x18x12 ins.,in each sec. 5½ ft.dist.,and raise a mound of earth 4 ft.base, 2 ft.high,W.of cor.
	Land rolling.
	Soil clay 2nd.rate.
	No timber.
	May 13: At this cor.I set off 18° 18'N. on the decl. arc;and at 11 h.56 m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39° 01'N.

	East on a random line bet.secs.5 and 8.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S. line. at the cor.of secs. 4-5-8 and 9.
	Thence I run.
	West on a true line bet. Secs.5 and 8.
	Descend.
3.00	Head of ravine course S.W.

SUBDIVISIONS OF T.21 S. R.24 E.,continued.

CHAINS	
	Ascend.
12.00	Begin descent over sandstone ledges bear N.and S.
35.00	Foot of ledges bear N.and S.,300 ft.below the cor. of secs.4-5-8 and 9.
	Descend.
40.00	Set a limestone 15x6x6 ins.,10 ins.in the ground fot ¼ sec.cor.,marked ¼ S. on the N.face,dig pits 18x18x12 ins.,E.and W. of stone,3 ft.dist.,and raise a mound of earth,3½ft.base,1½ ft.high,N.of cor.
41.00	Wash 15 ft.wide,10 ft.deep,course S.W.
45.00	Wash 15 ft.wide,10 ft.deep,course S.E. Sornson's Wash.
	Ascend.
80.00	The cor.of secs.5-6-7 and 8.
	Land rolling.
	Soil rocky 4th.rate.
	No timber.
	Mountainous land on 80.00 chs.

	West on a random line bet.secs.6 and 7.
40.00	Set temp.¼ sec.cor.
76.98	Intersect Grand River Guide Meridian,4 lks.N.of the cor.of secs.1-6-7 and 12.
	heretofore described.
	Thence I run
	N.89° 58'E.on a true line
	Bet.secs.6 and 7.
	Descend over rolling land.
30.00	Bottom of ravine 50 ft.deep,course N.E.
	Ascend.
36.00	Top of spur projects N.E.
	Descend.
36.98	Set a pine post 3 ft.long,2x4 ins.sq.,with marked stone 24 ins.in the ground for ¼ sec.cor.,marked ¼ S.6 on the N.and 7 on the S.faces,and raise a mound of earth 3½ ft.base, 1½ ft.high,N.of cor.
46.00	Bottom of ravine 50 ft.deep course N.E.

SUBDIVISIONS OF T.21 S. R.24 E., continued.

CHAINS	
	Ascend.
76.98	The cor. of secs.5-6-7 and 8.
	Land rolling.
	Soil Clay 2nd. rate.
	No timber.

	Knowing the line bet. secs.5 and 6 will not close within limits on the N.Bdy. of the Tp.
	I run
	N.0° 03'W. on a true line
	Bet. secs.5 and 6.
	Dsecend over rolling land.
12.00	Bottom of ravine 30 ft. deep, course N.E.
	Ascend.
37.00	Wash 6x6 ft., courseE.
40.00	Set a limestone 15x8x5 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on the W. face, and dig pits 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
40.10	Wash 20 ft. wide, 5 ft. deep, course S.E. Sornson's Wash.
60.00	Top of clay knoll on line.
	Descend.
80.02	Intersect 4th. Standard Parallel South, 3.19 chs. W. of the Standard Cor. of secs.31 and 32, heretofore described.
	Set a limestone 15x6x6 ins., 10 ins. in the ground for closing cor. to secs.5 and 6, marked C.C. on the S., 5 grooves on the E. and 1 groove on the W. face, dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft. and S. of stone 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.
	Land rolling.
	Soil clay 2nd. rate.
	No timber.
	May 13, 1902.

Meanders.T.21 S..R.24.E.

CHAINS. Meanders of the right bank of Grand River,up stream.

I commence at the meander cor.of fracl.secs.2 and 35, heretofore described,on the S.Bdy.of the Tp.

May 14: At this cor.I set off 38° 56'N.on the lat. arc;18° 37'N.on the decl.arc;and at 8 a.m.,l.m.t., determine a true meridian with the solar,

Thence I run with meanders in sec.35.

Through dense undergrowth.

N.51° 30'E.,6.00	chs.	Bank 20 ft.high.
N.41° 0'E.22.00	"	Bank 2 ft.high.
N.24° 45'E.,3.00	"	Bank 10 ft.high.
N.17° 45'E,7.00	"	Bank 5 ft.high.
N. 8° 30'E.,8.00	"	Bank 20 ft.high.
N. 1° 0'E.,12.00	"	Bank 6 ft.high.
N.16° 0'W.,2.30	"	Bank 6 ft.high.
N.39° 0'W.,12.00	"	Bank 6 ft.high,leave under growth,ascend over sandstone ledges.
N.68° 30'W.,3.30	"	Cliffs 50 ft.high.
N.72° 30'W.,7.80	"	Cliffs 60 ft.high.Descend.
S.75° 0'W.,4.70	"	Cliffs 12 ft.high.
N.58° 15'W.,5.00	"	Mouth of ravine.
N. 8° 30'E.,3.50	"	Bank 8 ft.high,leave ledges over bottom land.
N.24° 0'E.,6.00	"	Pole fence bears E.and W.
	"	
N.30° 0'E.,5.00	"	To the meander cor.of fracl. secs.26 and 35, heretofore described.

107.50
30.00
77.60

Land,rocky and river bottom.

Soil loam and rocky 1st.and 4th.rate.

No timber.

Mountainous land on 30.00 chs.

Meanders of T.21 S. R.24 E.,continued.

Meanders of the right bank of Grand River,up stream-
continued.

Thence in sec.26.

Over bottom land,through scattering cottonwoods.

N.16 ° E.,5.75	chs.	Bank 8 ft.high.
N.26½° E.,6.30	"	Bank 8 ft.high.
N. 7° E. ,3.00	"	Bank 8 ft.high,at 2.60 a pole fence bears E.and W.
N. 4° W. ,5.00	"	Bank 8 ft.high.
N.11° W.,12.00	"	Bank 10 ft.high.From this point the dwelling house of E.E. Campbell,bears S.55°W.,7.00 chs. dist.
N.17½° W.,3.00	"	Bank 10 ft.high.
N.28½° W.,11.00	"	Bank 12 ft.high.
N.38° W.,6.00	"	Bank 15 ft.high.
N.50° W.,8.00	"	Bank 12 ft. high.
N.51½° W.,6.00	"	Bank 8 ft.high.
S.65½°W., 2.00	"	Bank 6 ft.high.
S.59¼° W.,7.00	"	Bank 8 ft.high.At 6.10 chs.a pole fence bears N.E.and S.W.
S.85° W., 6.00	"	Bank 6 ft.high. To the meander cor.of fracl. secs.26 and 27. heretofore described.

Land level.

Soil loam 1st.rate.

Timber scattering cottonwoods.

Thence in sec.27.

Over bottom land through heavy cottonwood timber.

S.85 ° W., 4.00	chs.	Bank 10 ft.high.
S.79 ° W., 9.00	"	Bank 10 ft.high.
N.71 ° W.,27.00	"	Foot of perpendicular ledges 200 ft.high,bear N.W.and S.E.

Meanders, T.21 S. R.24 E., continued.

Meanders of the right bank of Grand River, up stream - continued.

N.37¼°W., 23.00chs. Top of sandstone ledges 150 ft. high. Begin abrupt ascent at 20.00 chs. Leave timber.

N.12¼° W., 4.00 chs. Top of bank 150 ft. high. To the meander cor. of fracl. secs. 22 and 27, heretofore described.

Land bottoms and rocky.

Soil loam and rocky 1st. and 4th. rate.

Timber cottonwoods on 60.00 chs.

Mountainous land or heavily timbered on 67.00 chs.

May 15: At this cor. I set off 18° 47' N. on the decl. arc; and at 11 h. 46 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 58' N.

Thence in sec. 22.

Over rocky land.

N.13¼° W., 7.30 chs. Steep bank 100 ft. high.

N. 0°30'E., 6.50 " " " " " "

N.10° 15'E., 21.00 " " " " " "

N.7° 45'E., 12.00 " Rocky bank 50 ft. high.

N. 4° W., 11.25 " Mouth of ravine from the west.

N.65° E., 1.50 " Leave rocky land, over sandy land.

N. 2° 30'E., 1.00 "

N.13° E., 1.00 "

N.15° 15'W., 4.00 " A dwelling house, bears W. 2.00 chs. dist.

N. 8° 30'E., 1.25 " Pump house of the Rio Grande Western R.R., bears N.45°W. 1.50 chs. dist.

N. 43°30'E. 5.20 "

N.24° E., 10.00 "

N.15° E., 2.00 " To meander cor. of fracl. secs. 15 and 22.

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Meanders, T.21 S. R.24 E., continued.

Meanders of the right bank of Grand River, up stream - continued.

heretofore described.

Land rocky and sandy.

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

No timber.

Mountainous land on 64.00 chs.

Thence in sec.15.

Through dense undergrowth.

N.22° 10'E., 1.10 chs.

N.48° E., 2.10 " Mouth of wash.

N.87° E., 2.60 " Begin ascent over sandstone ledges.

N.35° 30'E., 5.00 "

N.12° E., 3.50 " Top of ledges 40 ft. high, descend.

N.75° 20'E., 28.00 " Leave ledges, over sandy land.

S.86° 30'E., 5.60 " To meander cor. of fracl. secs. 14 and 15.

heretofore described.

47.90
44.90
3.00

Land broken.

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

No timber.

Dense undergrowth or mountainous land on 44.90 chs.

Thence in sec.14.

Through dense undergrowth.

S.75°E., 3.80 chs.

S.76° 30'E., 2.25 "

S.82° E., 2.70 "

S.76° 30'E. 3.80 "

S.76° E., 6.00 "

S.80°15'E., 3.60 " Bottom of wash, 30 ft. deep, at 2.00 chs.

East 4.30 "

S.80° 15'E., 12.40 "

S.68° 45'E., 21.00 "

Meanders, T.21 S. R.24 E., continued.

Meanders of the right bank of Grand River, up stream continued.

S.51° 30'E., 3.60 chs. To meander cor. of fracl. secs. 14 and 23. heretofore described.

Land level.

Soil sandy.

No timber.

Dense undergrowth on 63.45 chs.

Thence in sec. 23.

Through dense undergrowth.

S.65° E., 8.00 chs.

S.50° E., 10.00 " Over broken sandstone ledges.

S.38° E., 7.70 " To the point for meander cor. of fracl. secs. 23 and 24, witnessed 6.00 chs. north. heretofore described.

Land broken.

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

No timber.

Dense undergrowth or mountainous land on 25.70 chs.

On account of broken sandstone ledges it is impossible to continue the meanders in sec. 24, I therefore abandon the meanders on the right bank of Grand River.

May 15, 1902.

Meanders, T.21S. R.24 E., continued.

Meanders of the left bank of Grand River, down stream.

On account of broken sandstone ledges it is impossible to meander the left bank of Grand River in secs.23-24 and 25.

Therefore I commence at the meander cor. of fracl. secs. 14 and 23, heretofore described.

May 16: At 8 a.m., l.m.t., I set off 38° 59' N. on the lat. arc; 19° 0' N. on the decl. arc; and determine a true meridian with the solar.

Thence I run with meanders in sec.14.

Through dense undergrowth.

N.70 ° W.,	6.00 chs.	Bank 30 ft. high.
N.77 ° W.,	15.00 "	Bank 8 ft. high.
N.87 ° W.,	5.80 "	Bank 2 ft. high.
N.81¼° W.,	8.45 "	Bank 4 ft. high.
S.87¼° W.,	6.50 "	Bank 8 ft. high.
		To meander cor. of fracl. secs. 14 and 15. heretofore described.

Land level.

Soil sandy 3rd. rate.

No timber.

Dense undergrowth on 41.75 chs.

Thence in sec.15.

Through dense undergrowth.

N.81 ° W.,	5.10 chs.	Bank 3 ft. high.
S.83½° W.,	5.00 "	Bank 2 ft. high.
S.82½° W.,	3.00 "	Bank 2 ft. high.
S.78 ° W.,	7.00 "	Bank 4 ft. high.
S.72 ° W.,	3.00 "	Bank 4 ft. high.
S.62½° W.,	9.00 "	Bank 5 ft. high.
		To meander cor. of fracl. secs. 15 and 22. heretofore described.

Meanders, T.21 S. R.24 E., continued.

Meanders of the left bank of Grand River, down stream, continued.

Land level.

Soil sandy 3rd.rate.

No timber.

Dense undergrowth on 32.10 chs.

Thence in sec.22.

Through dense undergrowth.

S.52 ° W., 3.80 chs. Bank 2 ft.high.

S.23 ° W., 2.50 " Bank 3 ft.high.

S.13 ° W., 2.30 " Bank 4 ft.high.

S. 0½° E., 3.30 " Bank 3 ft.high.

S. 7½° E., 7.00 " Bank 3 ft.high, a log house bears East, 1.50 chs.dist.

S.17½° E., 8.00 " Bank 2 ft.high.

S.28½° E., 2.00 " Bank 2 ft.high.

S.48 ° E., 16.30 " Bank 4 ft.high.

S.57½° E., 22.00 " Bank 5 ft.high,

To the meander cor.of fracl.secs. 22 and 23, heretofore described.

Land level.

Soil sandy 3rd.rate.

No timber.

Dense undergrowth on 67.20 chs.

May 16; At this cor.I set off 19° 01'N.on the decl. arc; and at 11 h.56 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat.is 38° 58' 30" N.

Meanders of the left bank of Grand River, down stream, continued.

Thence in sec.23.

S.64 ° E., 9.00 chs. Bank 5 ft.high.

S.13½° E., 5.30 " Bank 10 ft.high, at 5.00 chs. mouth of wash from the N.E.

S. 3 ° E., 7.00 " Bank 15 ft.high. Along the top of sandstone ledges.

S. 4 ° E., 8.50 " Bank 30 ft.high.

S.10° E., 6.65 " Bank 30 ft.high.

To meander cor.of fracl.secs. 23 and 26, heretofore described.

Land broken.

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

No timber.

Mountainous land or dense undergrowth on 36.45 chs.

Thence in sec.26.

Over broken sandstone ledges.

S.10 ° E., 9.50 chs. Bank 30 ft.high.

S.14½° E., 5.80 " " " " "

S.34½° E., 1.85 " Bank 20 ft.high.

S.59½° E., 1.50 " Bank 25 ft.high.

S.60½° E., 9.40 " Bank 20 ft.high.

S.47 ° E., 12.30 " Bank 40 ft.high, at 10.00 chs. a mouth of a wash from the East.

S.28 ° E., 12.30 " Bank 40 ft.high.

S.11 ° E., 14.60 " " " " "

S.19½° E., 10.00 " " " " "

S.12½° E., 9.00 " " " " "

S.22 ° E., 6.80 " To meander cor.of fracl.secs. 26 and 35, heretofore described.

Land broken.

Meanders, T.21 S. R.24 E., continued.

Meanders of the left bank of Grand River, down stream, concluded.

Soil rocky 4th.rate.

No timber.

Mountainous land on 93.05 chs.

Thence in sec.35.

Over broken sandstone ledges.

S.30½° E.,	23.50 chs.	Bank 20 ft.high. At 10.50 chs. month of canon from East.
S. 4½° E.,	11.00 "	Bank 25 ft.high.
S. 9½° W.,	7.90 "	
S. 6½° W.,	15.30 "	Top of rocky point projecting west, 75 ft.above the river. At 11.00 chs.mouth of ravine from the east.
S.10½° W.,	8.80 "	Top of point projecting West, 50 ft.above the river. At 8.00 chs. mouth of ravine from the east.
S.36 ° W.,	11.00 "	Bank 40 ft.high.
S.52 ° W.,	10.60 "	
S.36½° W.,	2.20 "	Bank 50 ft.high. To meander cor.of fracl.secs. 2 and 35, heretofore described, on the South Bdy of the Tp.

90.30

Land broken.

Soil rocky 4th.rate.

No timber.

Mountainous land on 90.30 chs.

May 16, 1902.

Meanders, T.21 S. R.24 E., continued.

Meanders of an island in Grand River.

I commence at the meander cor. of fracl. secs. 26 and 27, heretofore described, on the south side of the island.

May 17; At 8 a.m., l.m.t., I set off 38° 58' N. on the lat. arc; 19° 13' N. on the decl. arc; and determine a true meridian with the solar.

Thence I run with meanders in sec. 27.

Through dense undergrowth.

S. 70° W. . . . 8.00 chs.

N. 79° 30' W. 14.00 "

N. 68½° W., 10.00 "

N. 53½° W., 10.00 "

N. 37½° W., 8.30 "

N. 3½° E., 3.40 "

N. 31° E., 5.00 " To meander cor. of fracl. secs. 22 and 27, heretofore described.

8-7°

Land level.

Soil sandy loam 2nd. rate.

Timber scattering cottonwood.

Dense undergrowth on 58.70 chs.

The bank is 5 ft. high along this line.

Thence in sec. 22, on island.

Through dense undergrowth and scattering cottonwoods.

N. 7 ° E., 8.20 chs., Bank 3 ft. high.

N. 10½° W., 13.00 "

N. 16½° W., 10.00 "

N. 1 ° W., 4.00 "

N. 8½° E., 1.00 "

N. 1¼° W., 11.30 "

N. 4½° W., 5.60 "

N. 14 ° E., 5.10 " Log house of Chas. Hallet bears East 2.00 chs. dist.

N. 19 ° E., 4.70 "

Meanders, T.21 S. R.24 E. continued.

Meanders of an island in Grand River, continued.

S.24½° E., 7.30 chs.

S.28 ° E., 6.00 "

S.49½° E., 6.30 "

S.52¼° E., 9.00 "

S.41 ° E., 5.90 "

S.45 ° E., 5.00 "

S.39 ° E., 4.00 "

S.45 ° E., 3.00 "

S. 9 ° E., 10.20 "

S.33 ° E., 5.20 "

S.44½° E., 1.60 "

S.58¼° E., 5.50 "

S.36 ° E., 1.20 "

S.26 ° E., 4.50 " To meander cor. of fracl. secs. 22 and 23, heretofore described.

Land level.

Soil sandy loam 2nd. rate.

Timber scattering cottonwood.

Dense undergrowth on 138.10 chs.

Thence in sec. 23, on island.

Through dense undergrowth and scattering cottonwood.

S.25° 50' E., 3.45 chs. To meander cor. of fracl. secs. 23 and 26. heretofore described.

Land level.

Soil sandy loam 2 nd. rate.

Timber scattering cottonwood.

Dense undergrowth on 3.45 chs.

Thence in sec. 26, on island.

Through dense undergrowth and scattering cottonwood.

Meanders of an island in Grand River, concluded.

S. 22½°E. 2.20 chs.

S. 1°E. 3.30 "

S. 34½°E. 4.20 "

S. 35°E. 2.30 "

S. 29°E. 1.70 "

S. 38°E. 1.40 "

S. 28°E. 1.40 "

S. 7°E. 2.60 "

S. 27½°E. 4.00 "

S. 54°W. 2.00 "

S. 64°W. 6.00 "

N. 79°W. 3.70 " To meander cor. of fracl. secs. 26 and 27, heretofore described.

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Land level.

Soil sandy loam, 2nd. rate.

Timber scattering cottonwood.

Dense undergrowth on 34.80 chs.

The main part of the island is about 10 ft. above the water and is not subject to inundation; along the bank is a dense growth of willows, while the rest of island is covered with a heavy growth of cottonwood timber with the exception of the north end where Chas. Hallet has about 5 acres under cultivation, value of improvements about $200.00.

May 17, 1902.

General Description of T.21 S.R.24 E.-

This township has rolling clay soil in the western portion, and broken and rocky land in the middle and eastern portions.

The soil ranges from 1st. rate in the river bottom to the 4th. rate along the banks of the river and ravines.

Scattering cedar and pinon timber is found in the northeast portion of the township and cottonwoods along Grand River.

The only water in this township is Grand River which runs through the southeast portion of the township.

The Rio Grande Western Railroad passes through the northwest portion of the township, this road is the main line between Salt Lake City and Grand Junction, Colorado.

There are seven settlers in this township:

Wm. Shidler, is located in the S.W.$\frac{1}{4}$ of sec. 14, about 10 acres of land under cultivation; value of improvements $100.00.

W. Shidler is located in the S.W.$\frac{1}{4}$ of sec. 11, about 10 acres of land under cultivation; value of improvements $200.00.

E.E. Campbell is located in S.W.$\frac{1}{4}$ sec. 26, 25 acres of land under cultivation; value of improvements $500.00.

Gussie Devine is located in S.W.$\frac{1}{4}$ sec. 14 and S.E.$\frac{1}{4}$ sec. 15, 15 acres of land under cultivation, value of improvements $300.00.

Alfred W. Morse, is located in N.E.$\frac{1}{4}$ sec. 27, 20 acres of land under cultivation; value of improvements $500.00.

Louise Mueller sold her improvements to Henry Knolls, who is located in S.E.$\frac{1}{4}$ sec. 15, 10 acres of land under cultivation; value of improvements $150.00.

Chas. Hallet is located in N.W.$\frac{1}{4}$ sec. 22, 5 acres

General Description of T. 21 S. R. 24 E.-Concluded.

of land under cultivation; value of improvements $200.00.

The Rio Grande Western Railroad Pump Station on Grand River, is located in N.W.$\frac{1}{4}$ sec. 22.

There is no mineral in this township.

Hubert D. Page
U. S. Deputy Surveyor.

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

Hubert D. Page
U. S. Deputy Surveyor.

BLANK

PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivisions of T. 21 S., R. 24 E. of the Salt Lake base and meridian in the state of Utah, showing the respective capacities in which they acted:

Ralph G. Gessford, Chainman.
George A. Needham, Chainman.
Walter N. Hartley, Moundman.
Robert Elliott, Moundman.
, Axman.
, Axman.
Robert Elliott, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, United States Deputy Surveyor, in surveying all those parts or portions of the subdivisions of Township No. 21 South, Range No. 24 East of the Salt Lake base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by 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.

Ralph G. Gessford, Chainman.
George A. Needham, Chainman.
Walter N. Hartley, Moundman.
Robert Elliott, Moundman.
, Axman.
, Axman.
Robert Elliott, Flagman.

Subscribed and sworn to before me this 17 day of May, 1902.

SEAL

Hubert D. Page
U.S. Deputy Surveyor.

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BOOK A-284

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for the District of Utah, bearing date of the 11th day of November 1901, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisional and meander lines of T. 21 S. R. 24 East of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Hubert D. Page
United States Deputy Surveyor.

Subscribed by said Hubert D. Page, and sworn to before me this 21st day of August 1902.

Edward H. Anderson
M. J. Surveyor General

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah Nov 25, 1902, 189

The foregoing field notes of the survey of the subdivisional and meander lines of Township 21 South Range 24 East of the Salt Lake Base & Meridian, Utah

executed by Hubert D. Page under his contract No. 247, dated November 11th 1901, 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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