

See Index ¹

No. 1279

BOOK 1279

Field Notes

OF THE SURVEY OF

BOOK 1279

Coastline Lines,
E. W. N. and S.
Boundary, ^{11, 12, 15} ~~11, 12, 15~~
~~22, 24, 25, 26,~~

Gila and Salt River Base and Meridian

ARIZONA.

By O. S. Wheeler D. S.

Under contract dated May 31, 1882.

Survey commenced July 13 1882.

Survey completed July 27 1882.

1279

No. 1279



South	Body	T 11 N R	20 E	30
North	"	T 11 N	" 25 E	14
South	"	T 11 N	" 24 "	24
"	"	" 11 N	" 24 "	34
West	"	" 11 N	" 24 E	42
North	"	" 12 N	" 24 E	52
West	"	" 11 N	" 22 E	61
South	"	" 11 N	" 22 E	71
East	"	" 11 N	" 22 E	79
West	"	" 11 N	" 22 E	88
North	"	" 15 N	" 26 E	97
East	"	" 15 N	" 26 E	107
West	"	" 15 N	" 26 E	117
North	"	" 15 N	" 26 E	

BOOK 1279

124 122 121 120

Index
~~Notes~~

- North & South, T 11 N; R. 25 E. 0 ✓
- West - " & " " 11 N; R. 24 " 0 ✓
- " " " 12 " ; " 24 " 0 ✓
- " " " 11 N; " 22 " 0 ✓
- " (" & East, " 11 N; " 22 " ✓
- " " & " " 15 N; " 26 " ✓

See survey of this line, T. 10 to 20 N,
Rgs 10 to 20 E

No. 1279

BOOK 1279

Estero de S. B. S. 11 N. R. 25 E.

Gila and Salt River Meridian

Survey made with Burt's
Patent Improved Solar
Compass, nearly new,
and in first rate order,
made by Otto Sinner
of Cassel in Germany.
in 1881.

Before Proceeding with
the survey of the Estero
I took the latitude at
Cor. to Sps 10411 N. R.
24 & 25 E. on the 6th
Auxiliary Meridian,
and found it to be
 $34^{\circ} 16' N.$ and at noon
verified and corrected
same by observation on
the sun also further

S. B. T. 11 G. R. 25 E.

Chain

tested instrument by
reversing.

From the cor. to Tps 10 & 11
N. Rs 24 & 25 E. which
is a Basalt stone set
firmly in the ground
marked with butches on
each edge, with stone
run round alongside. From
East on a random line
on South Pry of Tp.

Var. $13^{\circ}14'E$

use observation with Solar compass
Set temporary corners
at every 40 chs, and at
5 miles 13.50 chs arrive at
a Point 90 chs S of cor. to

S. B. S. 11 N. R. 25 E.

chains

Sps 10 & 11 N. Rs 25 & 26 E.
 which is a Post,
 properly marked and
 notched, with pits in
 each sec, and mound
 of earth around post
 established as per
 instructions of the
 old Manual

The correction for the true
 line will therefore be 13 1/2
 N. and 6.50 West per mile
 and its course will be

S. 89° 54' W.

From the cor. to Sps 10 & 11 N.

Rs 25 & 26 E. 0 min

S. 89° 54' W. on a true line
 bet. Secs. 14 & 36.

S. B. S. 11 N. R. 25 E.

chains

Var. $13^{\circ}14' E$

Ascend

- 39.15 Top of ridge br. N. S. & descend
- 40.00 Set a Basalt stone $16 \times 14 \times 12$ ins. with marked stone 11 ins. in the ground, for $\frac{1}{4}$ sec. br. marked $\frac{1}{4}$ on N face, and raised a mound of stone along side. Pitt impracticable
- 57.12 Cross creek 80 lbs wide, course N. S. ascend
- 78.75 Cross Road course N. $12^{\circ} E$
- 80.00 Set a Basalt stone $18 \times 14 \times 3$ & 12 ins. in the ground, for br. to Secs. 1, 2, 3, 5 & 36. marked with 1 notch on E & 5 notches on N. edges,

S. B. T. 11 N. R. 25 E.

Chains

and raised a mound of
stone alongside Pit imprac-
ticable

Land Rolling

Soil 2d rate

Vegetation of Bunchgrass.

$\delta. 89^{\circ} 54' W.$ on a true line
bet. Secs. 24 3 5.

Var. $13^{\circ} 17' E.$

Descend

4000 Sit a Basalt stone $14 \times 10 \times 3$
ins. 10 ins. in the ground
for $\frac{1}{4}$ sec. bor. marked $\frac{1}{4}$
on N. face, and raised a
mound of stone alongside
Pit impracticable.

8000 Sit a Basalt stone $17 \times 9 \times 4$

S. B. T. 11 N. R. 25 E.

Chairs

12 ins. in the ground, for
 cor. to Secs. 2, 3, 34 & 35.
 marked with notches on
 E & 4 notches on W. edges
 and raised a mound of
 stone alongside, pits imp
 racticable.

Land Rolling

Soil 2^d rate

Vegetation of Bush grass

S. $89^{\circ} 54'$ W. on a stoneline,
 bet. Secs. 3 & 34.

Var. $13^{\circ} 20' E.$

Ascend

4000 Set a Basalt stone $16 \times 9 \times 4$
 ins. 11 ins. in the ground
 for $\frac{1}{4}$ sec. cor. marked.

S. B. T. 11 N. R. 25 E.

Chains

1/4 on W. face and raised
a mound of stone along-
side, Pits impracticable

8000

Set a Basalt stone $17 \times 10 \times 5$ ins.
12 ins. in the ground, for Cor.
to Secs. 3. 4. 33×34 marked
with 3 notches on E. W. edges,
and raised a mound
of stone alongside Pits
impracticable

Land rolling

Soil 2d rate

Vegetation of Burial ground.

S. $89^{\circ} 54'$ W. on a true line
bet. Secs. 4 & 33.

Var. $8^{\circ} 30' E'$

Ascend

S. B. T. 11 G. R. 25 E.

chains

40.00

Set a Basalt stone $16 \times 10 \times 4$
ins. 11 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
on N face, and raised a
mound of stone alongside
Pits impracticable

58.16

Top of Ridge to W. &
descend

80.00

Set a Basalt stone $24 \times 14 \times$
3 ins. 18 ins. in the ground
for cor. to Secs. 4, 5. 32×33
marked with 4 notches
on E 2 notches on W. edge,
and raised a mound
of stone alongside, Pits
impracticable

Land Rolling

Soil 2^d rate

Vegetation of Brunchgrass

S. B. T. 11 N. R. 25 E.

chain

on a true line

S. $89^{\circ} 54'$ W. bet. Secs. 52 & 32Var. $12^{\circ} 45'$ E.

Descend

4000 Set a Basalt stone $16 \times 12 \times 4$
 ins. 11 ins. in the ground
 for $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$
 on W face, and raised a
 mound of stone alongside
 Pit impracticable

65.66 Cross Wash 25 lbs wide
 course N. and ascend

8000 Set a Basalt stone $18 \times 10 \times 4$
 ins. 12 ins. in the ground
 for Cor. to Secs. 5, 6, 31 & 32
 marked with 5 notches
 on E & 1 notch on W edge,
 and raised a mound
 of stone alongside, Pit
 impracticable.

S. B. T. 11 N. R. 25 E.

Chains

Land Rolling
 Soil & rock
 Number of Grumps
 Vegetation of Prench grass.

S. 89° 54' W. on a true line
 bet. Secs. 6 & 31.

Var. 12° 45' E

Ascend

33.97 Dip slope for 1/4 sec. and
 descend

40.00 Set a Basalt stone 18 x 12 x 9
 ins. 12 ins. in the ground
 for 1/4 sec. bar marked 1/4
 on N face, and raised
 a mound of stone along-
 side. Pit impracticable.

73.50 The bar. to Sps 102 11 N. R.

S.B. T. 11 G. R. 25 E.

Chairs

24 x 25 D.

Land Rolling

Soil 3^d oak

Timber of *Grass*

Vegetation of Bunchgrass

Exteriors. N. B. T. 11 N. R. 25 E.

choius

Before proceeding further I made a change of 5 minutes in the latitude arc of my Solar compass by adding same to the reading previously given, and at noon verified and corrected same by observation on the sun, I also tested instrument by reversing.

From the Cor. to Ips 11^h 12 N. R. 24 + 25 E. on the 6th Auxiliary Meridian just recently established by me, I run East on a random line bet Ips 11^h & 12 N. on Range 25 E.

N. B. P. 11 N. R. 25 E.

chains

Var. $130^{\circ} 38' 18''$

Set temporary corners at every 40 chains, and at 5 miles 68.20 chs I arrive at a point 285 lbs S. of Cor.

to Sp. 11 & 12 N. R. 25 & 26 E.

The correction for the true line will therefore be 47 lbs N. and 11.80 chs West per mile and its course will be $S^{\circ} 89^{\circ} 40' N.$

From the Cor. to Sp. 11 & 12 N.

R. 25 & 26 E. which is a limestone properly notched with stone mound on S. side.

N. B. T. 11 G. R. 25 E.

Chains

Run S $89^{\circ} 40' N.$ on a true
line bet Secs. 1 & 36.

Cor. $11^{\circ} 48' E.$

Ascend gradually

40.00

Set a Basalt stone $16 \times 8 \times 4$
ins. 11 ins. in the ground for
 $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$
on N face and raised a
round of stone along-
side, Pk impracticable

80.00

Set a Sandstone $16 \times 10 \times 4$
ins. 11 ins. in the ground,
for Cor to Secs 1, 2, 35 & 36.
marked with 1 notch on E
& 5 notches on N. edge,
and raised a round of
stone alongside, Pk imp-
racticable

Land rolling

N. B. T. 11 N. R. 25 E.

chains

Soil 2^d rate

Timber of Juniper

Vegetation of Bunchgrass.

S. $89^{\circ} 40'$ W. on a true line
bet. Sees. 24 35.

Var. $13^{\circ} 30'$ E.

Ascend

8.50. Top of Ridge to Nat. & descend

4000 Set a Post 4 ft. long 4 ins.

square, with marked stone
12 ins. in the ground, for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ S on N.

face, dug pits 18+18+12 ins.

Ex W. of Post $5\frac{1}{2}$ ft. dist.

and raised a mound of
earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
around post.

N. B. T. 11 N. R. 25 E.

Chain
8000

Set a Basalt stone 16+10+3
in. 11 in. in the ground
for cor. to Secs. 2, 3, 34+35.
marked with 2 notches on
E or 4 notches on W. edges,
and raised a mound of
stone alongside Pt. trap
racticable

Land rolling

Soil 2^d rate

Timber of Juniper

Vegetation of Bunchgrass

S. 89° 40' W. on a true line
bet. Secs. 34 35.

Var. 14° 10' E

See end

20.13 cross Wash 30 lbs wide,

H. B. T. 11 N. R. 25 E.

chains

- course N. 13° W. and ascend
 32.16 Cross Road course N. 58° E.
 40.00 Set a Basalt stone $16 \times 9 \times 4$
 ins. 11 ins. in the ground
 for $1/4$ sec. Cor. marked $1/4$ on
 N face, and raised a
 mound of stone along side
 64.20 Top of spur to N. S. & descend
 80.00 Set a Basalt stone $14 \times 9 \times 3$ ins.
 10 ins. in the ground for cor.
 to Secs. 3, 4, 33, 34. marked with
 3 notches on E & W. edges,
 dug pits $18 \times 18 \times 12$ ins. in
 each sec. $5/2$ ft. dist. and
 raised a mound of earth
 2 ft high $4 \frac{1}{2}$ ft. base along-
 side.

Land Rolling.
 Soil 3^d rate

H. B. P. 11 G. R. 25 E.

chains

Vegetation of Bunchgrass.

S. 89° 40' W. on a true line,
bet. Secs. 4 & 33.

Var. 13° 30' E.

Descend

1.39 Cross Work 30 lbs wide,
course W ascend

20.16 Top of spur br W S. & descend

4000 Set a Basalt stone 17 x 9 x 4
ins. 12 ins. in the ground
for 1/4 sec. Cor. marked 1/4
on N face, and raised a
row of stone along side

8000 Set a Basalt stone 14 x 9 x 4
ins. 10 ins. in the ground
for Cor. to Secs. 4, 5, 32 & 33,
marked with 4 notches

N. B. T. 11 N. R. 25 E.

Chains

on E 2 notches on W. edges
dug pits 18 x 18 x 12 in. in each sec. of field dist.
and raised a mound of

earth 2 ft. high 4 ft. low
along side

land rolling

Soil 3^d rate

Vegetation of Bromegrass.

Scattering Juniper

S. 89° 40' W. on a true line
bet. Secs. 57 32.

Var. 130° 36' E!

Descend

11.25 cross wash 30 lbs wide, course
N. 41° E. and ascend

4.00 Set a Basalt stone, 18 x 10 x 4
in. 12 in. in the ground for
1/4 sec. cor. marked 1/4
on N. face and raised a

N. B. P. 11 N. R. 25 E.

chains

wound stone along side
Pit impracticable

80.00 Set a Basalt stone $16 \times 8 \times 4$
ins. 11 ins. in the ground
for cor. to Secs. 5. 6. 31 & 32.
marked with 5 notches on
It & 1 notch on W. edge, dug
pit $18 \times 18 \times 12$ ins. in each
sec. $5 \frac{1}{2}$ ft. dist. and raised
a mound of earth 2 ft.
high $4 \frac{1}{2}$ ft. base along side.
Land Rolling.

Soil 3d rate

Vegetation of bunchgrass.

S. $89^{\circ} 40'$ W. on a true line
bet. Secs. 6 & 31.

Var. $13^{\circ} 35'$ E.

N. B. T. 11 N. R. 25 E.

chains

over rolling ground

40.00 Set a Basalt stone $16 \times 9 \times 4$
ins. 11 ins. in the ground for
 $\frac{1}{4}$ sec. cor. marked off on
N face, and raised a mound
of stone alongside Pt. b
impracticable

68.20 To cor. to Sp. 11 & 12 N. R. 25
24 & 25 E.

Land Rolling

Soil 3^d rate

Vegetation of Bunch-
grass, Scattering Juniper.

July 13. 1882

Exterior S. B. N. 11 N. R. 24 E.

chain

Before proceeding further
I made a change of 5'
minutes in the latitude
arc of my Solar Compass.
by subtracting same from
the reading previously given
and at noon verified and
corrected same by obser-
vation on the Sun, I also
tested instrument by
reversing.

From the cor. to Sps 10 & 11 N.
Rs 23 & 24 E. which is a
Basalt stone 24 x 16 x 4 ins.
18 ins. in the ground, marked
with 6 notches on each edge,
and a round flat stone

S. B. T. 11 N. R. 24 E.

chains

alongside Iron Post on a
random line bet. Tps 10 &
11 N. Through Range 24 E.
Var. $13^{\circ}25'E!$

Set temporary corners at
every 40 chs & at 5 miles
79.10 chs. I arrive at a Point
2.04 chs N. of cor. to Tps
10 & 11 N. R. 24 & 25 E!

The correction for the true
line will therefore be 34 lbs S.
and 90 lbs West per mile
and its course will be

N. $89^{\circ}46'W.$

From the cor. to Tps 10 & 11 N.

R. 24 & 25 E. on the 6th
Auxiliary Meridian just
recently established by me
Iron N. $89^{\circ}46'W.$ on a

S. B. T. 11 N. R. 24 E.

chain

true line bet. Secs. 1 & 36

Cor. 120° 30' E.

Descend

38.15 cross Wash 35 lbs wide
course N. 22° E. & ascend

40.00 Set a Basalt stone 18 x 14 x 4
ins. 12 ins. in the ground
for 1/4 sec. cor. marked off
on N. face, and raised a
round stone alongside
Pit impracticable

80.00 Set a Basalt stone 16 x 12 x 8
ins. 11 ins. in the ground for
cor to Secs. 1, 2, 35 & 36. marked
with 1 notch on E & 5 notches
on West edges, and raised
a round stone along-
side, Pit impracticable.
Land rolling

S. B. T. H. R. et C.

Lains

Soil 2d rate
 Number of Grains
 Vegetation of Bunchgrass.

N. $89^{\circ}46'$ W. on a true line
 bet. Secs. 2 & 35.

Var. $12^{\circ}30'$ E.

Ascend

- 27.15 Top of ridge to N.W. & descend
 4000 Set a Basalt stone $17 \times 9 \times 4$ ins.
 12 ins. in the ground, for $\frac{1}{4}$
 sec. bor. marked $\frac{1}{4}$ on N. face,
 dug pits $18 \times 18 \times 12$ ins. S & W.
 of stone $5\frac{1}{2}$ ft. dist. and
 raised a mound of earth
 $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base along
 side, Pits impracticable
 8000 Set a Basalt stone $19 \times 8 \times 4$

S. B. T. 11 U. R. 24 E.

Chains

ins. 13 ins. in the ground for
 Cor. to Secs. 2, 3, 34 & 35.
 marked with 2 notches on
 E & 4 notches on W. edges, dug
 pits 18 x 18 x 12 ins. in each
 sec. 5/8 ft. dist. and raised a
 mound of earth 2 ft. high
 4/8 ft. base along side.

Land Rolling.

Soil 2 d rate

Vegetation of Bunchgrass
 Timber Pine & Juniper.

N. 89° 46' W. on a true line
 bet. Secs. 3 & 34.

Var. 13° 20' E.

over level land.

10.04 Cross Road course N. 18° E.

S. B. S. 11 N. R. 24 E.

chains

40.00 Set a Basalt stone $14 \times 9 \times 5$
ins. 10 ins. in the ground
for $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$
on N face, and raised a
mound of stone along with
Pit impracticable

80.00 Set a Basalt stone $18 \times 12 \times 3$
ins. 12 ins. in the ground
for Cor. to Secs. 3, 4, 33 & 34.
marked with 3 notches on
E & W. edges, and raised a
mound of stone along-
side, Pit impracticable
Land Rolling

Soil 2^d rate

Vegetation of Burdock
Timber of Pine & Cedar

S. B. T. 11 N. R. 24 E.

chains

N. $89^{\circ} 46'$ W. on a true line
bet. Secs. 4 & 33.Var. $13^{\circ} 00'$ E.

Over rolling ground

40.00 Set a Limestone $18 \times 9 \times 4$ ins.12 ins. in the ground for $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$ onN face, and raised a
mound of stone along-
side Pit unpracticable45.80 Top of Ridge Cor. 36° W.
& descend80.00 Set a Basalt stone $16 \times 12 \times 4$

ins. 8 ins. in the ground, for

Cor. to Secs. 4, 5, 32 & 33.

marked with 4 notches on

E & 2 notches on W. edges,

from which

a true line runs. Dir. to 79° E. $117'$ (marked)

S. B. T. 11 N. R. 24 E.

Chains

marked T. 11 N. R. 24 E. S. 33 B. D.
 a Juniper 18 ins. dia. to S 71° E. 63 lks dist
 marked S. 10 N. R. 24 E. S. 4 B. D.

Land sulling.

Soil 2 d oats

Dumber of Juniper

Vegetation of Bunchgrass.

N. 89° 46' W. on a tree line
 bet. Secs. 5 & 32

Var. 13° 00' E'

Described

4000 Set a Limestone 16 x 10 x 4 ins.
 11 ins. in the ground for 1/4
 sec. bor. marked 1/4 on N.
 face, and raised a mound
 of stone along side. Pt
 impracticable.

S. B. S. 11 N. R 24 E.

chain

66.66 cross Wash 24 lks wide, course
S. 17° W. and ascend80.00 Set a Basalt stone $16 \times 9 \times 4$
ins. 11 ins. in the ground for
cor. to Sec. 5. 6. 31 & 32.

marked with scratches on E.

& 1 notch on W. edges, and

raised a mound of stone

alongside. Pits impracticable.

Land Rolling

Soil 5th rate

Vegetation of Bunchgrass.

N. $89^{\circ} 40'$ W. on a true line
bet. Sec. 6 & 31.Var. $14^{\circ} 10'$ E.

over Rolling land

40.00 Set a Basalt stone $16 \times 10 \times 4$

No. 1279

S. B. P. 11 N. R 24 E.

Chains

11 ins. in the ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
 on N face and raised a
 mound of stone along side.
 Pits unpracticable.

50.40 Enter Lake Basin to N. 70° W.
 79.10 To cor. to Sps 104 11 N. R 23
 23 x 24 E!

Land Rolling.

Soil 2^d rate

Timber of Juniper

Vegetation of Bunchgrass.

 July 17. 1882.

I carefully examined the
 adjustments of my Solar Compass
 to day particularly by the latitude
 & reversing apparatus and
 found them correct.

W. B. T. 11 N. R. 24 E.

Chains

From the cor. to Tps 10 & 11
N. Rs 23 & 24 E. From
North bet. Secs. 31 & 36.
Var. 13° 00' E!

over Basin of dry lake.

4.20 N. side of Basin course E. W.
2 ascend

40.00 Set a Bassett stone 16 x 9 x 4 in.
11 ins. in the ground, for 1/4
sec. cor. marked 1/4 on N.
face, and raised a mound
of stone along side Pts
imperceptible.

50.00 Top of Ridge, to E. W. descend

80.00 Set a Bassett stone 18 x 9 x 7 in.
12 ins. in the ground for cor.
to Secs. 25, 30, 31 & 36. marked
with 5 notches on N. & 1 notch
on S. edge, and raised a

W. B. P. 11 N. R 24 E.

4000

wound of stone along side
Pit impracticable
Land Rolling
Soil 2^d rate
Timber of Juniper
Vegetation of Bunch grass.

North bet. Secs. 25 & 30

Var. 13° E.

Descend

4000 Set a Basalt stone 17 x 10 x 4 ins.
12 ins. in the ground, for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on N.
face and raised a wound
of stone along side, Pit
impracticable

8000 Set a Basalt stone 19 x 13 x 6
ins. 13 ins. in the ground

W. B. S. 11 N. R 24 E

Chains

for Cor. to Secs. 19, 24, 25 & 30.
marked with 4 notches on
N & 2 notches on S. edges, and
raised a mound of stone
alongside Pts. unperforated

Land Rolling

Soil 2d rate

Vegetation of Bunch grass

Timber of Juniper.

North bet. Secs. 19 & 24.

Cor. 13° E.

Descend

7.60 Cross Wash 24 lbs wide
course N. 71° W. and enter
level basin

40.00 Set a Basalt stone, 14 x 9 x 4
ins. to ins. in the ground.

W. B. J. 11 N. R. 24 E.

Stations

for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
 on W. face, ^{and pits 18x18x12 in. $\frac{1}{4}$ in. of cor. $\frac{5}{8}$ ft. dia.} and raised a
 mound of earth $1\frac{1}{2}$ ft high
 $3\frac{1}{2}$ ft. base alongside.

47.13 Cross Road course E. W.
 80.00 Set a Basalt stone $17 \times 9 \times 4$
 ins. 12 ins. in the ground for
 cor. to Secs. 13, 18, 19 & 24.
 marked with 3 notches on
 N. S. edges, dug pits $18 \times 18 \times 12$
 ins. in each sec. $\frac{5}{8}$ ft. dia.
 and raised a mound of
 earth 2 ft. high $4\frac{1}{2}$ ft. base
 alongside.

Land rolling.

Soil 2d rate

Vegetation of Bunch grass.

Dieter of Juniper.

W. B. T. 11 N. R. 24 E.

Chairs

North bet. Secs. 13 & 18.

Var. $13^{\circ}30' E$

Over level ground

24.00 North side of valley bet Ex. W.
and ascend

40.00 Set a Basalt stone $20 \times 13 \times 4$
ins. 15 ins. in the ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
W face, and raised a
mound of stone alongside.
Pit in perspective.

80.00 Set a Basalt stone $17 \times 10 \times 3$
ins. 12 ins. in the ground
for cor. to Secs. 7, 12, 13 & 18.
marked with 2 notches on
North and 4 notches on S.
edges, dug pits $18 \times 18 \times 12$ ins.
in each sec. 57 ft. dist. and
raised a mound of earth

W. B. S. 11 N. R 24 E.

chains

2 ft. high $4\frac{1}{2}$ ft. base along side.

Land Rolling.

Soil 2^d rate

Vegetation of bunch grass

Some Juniper & Shrub.

North bet. Secs. 7 & 12.

Var. $12^{\circ} 30' E.$

Ascend

34.20 Top of ridge bet E & W & descend

4.00 Sit a Basalt stone $20 \times 14 \times 5$ ins.

15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W.

face, and raised a mound of stone along side. Pts impracticable

80.00 Sit a Basalt stone $24 \times 13 \times 6$

N. B. T. 11 W. R. 24 E.

chains

18 ins. in the ground for
 Cor. to Sec. 1. 6. 7 & 12.
 marked with 1 notch on N.
 and 5 notches on S. edges,
 and raised a rounded
 stone alongside Pit imp-
 racticable.

Land Rolling

Soil 2^d rate

Timber of Juniper

Vegetation of Bush grass.

North bet. Secs. 1 & 6.

Cor. 12° 56' E.

Descend

4000 Set a limestone 18 & 10 & 4
 ins. 12 ins. in the ground
 for 1/4 sec. cor. marked

W. B. J. 11 N. R. 24 E.

chains

marked with 1/4 on W face
and raised a mound of
stone alongside.

Pit impracticable

8000 Set a Basalt stone 18 x 14 x 9
ins. 12 ins. in the ground
for cor. to Sps 11 x 12 N.

Rs 23 x 24 E. marked
with 6 notches on Eash edge
and raised a mound of
stone alongside.

Pit impracticable

Land Rolling.

Soil 2d rate

Number of Jumper

Vegetation of Bruchgrass.

Caterina N. B. J. 11 N. R. 24 E.

Sains

Before proceeding further
I made a change of 5
minutes in the latitude
Arc of my Solar compass
by adding same to the
reading previously given
and it soon verified
and corrected same,
by observation on the sun
I also tested instrument
by reversing.

From the Cor. to Sp^s
11 1/2 N. R. 23 1/2 24 E.
From East on a random
line bet Sp^s 11 1/2 N.
through Range 24 E.
Var. 13° 45' E.
Set temporary corner

N. B. T. 11 N. R 24 E.

chains

at every 40 chains and
 at 5 miles 78.76 chs I
 arrive at a point 198 lks
 South of Cor. to Sps 11 & 12
 North Rs 24 & 25 E. a point
 on the 6th Auxiliary Meridian
 just established by us.
 The correction for the true
 line will therefore be
 33 lks N. and 1.24 chs
 West per mile and its
 course will be $5^{\circ} 89' 46''$ W.
 From the Cor. to Sps 11 & 12
 N. Rs 24 & 25 E. I run
 $8^{\circ} 89' 46''$ W. on a true line
 bet Secs. 1 & 36.

Cor. $14^{\circ} 18' E.$

over level land

4000

Set a Basalt stone 16x16x7

N. B. P. 11 N. R. 24 E.

Chairs

ins. 11 ins. in the ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
 W. face, dug pits 18 x 18 x 12
 ins. ~~Ex~~ W. of stone $5\frac{1}{2}$ ft.
 dist. and raised a mound
 of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft.
 low alongside

8000 Set a Basalt stone 17 x 13 x 4
 ins. 13 ins. in the ground
 for cor. to Secs. 1, 2, 35 & 36
 marked with 1 notch on
 Ex 5 notches on W. edge,
 and raised a mound of
 stone alongside, Pts
 unpracticable
 Land level

Soil 2^d rate

Number of Grasses
 Vegetation of Runic grass

N. B. S. 11 N. R 24 E.

Station

S. $89^{\circ}46'$ W. on a true line
bet. Secs. 2 & 35.

Var. $13^{\circ}12'$ E!

over level ground

4000 Set a Basalt stone $18 \times 10 \times$

4 ins. 12 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N face and raised
a mound of stone along-
side Pts impracticable.

5400 Enter Dry Lake by Pass.

7600 Leave Dry Lake by N 10° E.

8000 Set a Basalt stone $14 \times 12 \times 6$

ins. 10 ins. in the ground
for cor. to Secs. 2, 3, 34 & 35.

marked with notches on
E & 4 notches on W. edge,
and raised a mound of
stone along side Pts impracticable.

N. B. P. 11 N. R. 24 E.

Chains

Sand level
Soil 2d rate
Vegetation of *Bunchgrass*
Number of *Juniper*.

S 89° 46' W. on a true line
bet. Secs 3 & 34

Var. 13° 14' E.

Over rolling ground

4000 Set a Basalt stone 16 x 8 x 5
ins. 11 ins. in the ground
for 1/4 sec. cor. marked
1/4 on N. face, and raised
a mound of stone along
side. Pits unpracticable.

8000 Set a Basalt stone 14 x 10 x 9
ins. 10 ins. in the ground
for cor. to Secs. 3, 4, 33 & 34

N. B. T. 11 N. R. 24 E.

Chairs

marked with scratches
on E & W. edges, and
raised a mound of
stone along side of Pt. imp.
secticable.

Land Rolling.

Soil 2d rate

Timber of Juniper

Vegetation of Bunchgrass.

S. $89^{\circ} 46'$ W. on stone line
bet. Secs. 4 & 33.

Var. $B^{\circ} 15' E'$

Low Rolling Land

4000 Sit a Basalt stone 20x14
& 3 ins. 15 ins. in the ground
for $\frac{1}{4}$ sec. low. marked
 $\frac{1}{4}$ on N. face, and raised

N. B. N. 11 N. R. 24 E.

chain

a mound of stone along-side, Pits impracticable

53.30 Enter dry lake by N. 21° W.

62.00 Leave dry lake by N. W. and ascend

73.00 Top of Ridge by N. W. & descend

80.00 Set a Basalt stone 17 x 10 x 4 ins. 13 ins. in the ground for cor. to Sec. 4 5. 32 & 33. masked with 4 notches on E and 2 notches on W. edges, and raised a mound of stone along side. Pits impracticable

Land Rolling

Soil 2d rate

Timber of Spruce

Vegetation of Brushy grass

N. B. T. 11 N. R. 24 E.

Chino

S: $89^{\circ} 46' W.$ on a true
line bet. Secs. 5 & 32

Var. $15^{\circ} 30' E.$

Descending.

- 40.00 Set a Basalt stone $22 \times 11 \times$
4 ins. 16 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N face, and raised
a mound of stone along-
side, Pit impracticable.
- 41.25 Cross Head of Wael 20×20
wide course S. and ascend
- 8000 Set a Basalt stone $24 \times 18 \times$
16 ins. 18 ins. in the ground
for cor. to Secs. 5, 6, 31 & 32.
marked with 5 notches
on E & marked on Wedges,
and raised a mound
of stone along side,

N. B. P. 11 N. R. 24 E.

Chairs

Pits impracticable
Sand Rolling.
Soil 2nd rate
Timber of Juniper
Vegetation of bunchgrass

S. 89° 46' W. on a true line
bet. Secs. 6 & 31.

Cor. 13030' E!

Ascend gradually
4000 Set a Basalt stone 22 x 13
x 3 ins. 16 ins. in the ground
for 1/4 sec. Cor marked
1/4 on N face, from which
a Juniper 12 ins. dia to S. 36° W. 16 ft. dia
marked 1/4 S. B. P.
a Juniper 8 ins. dia to N. 20° W. 22 ft. dia
marked 1/4 S. B. P.

N. B. T 11 N. R. 24 E.

claims

45.90 Top of Ridge to N. 38° E.
descend

78.76 The cor. to N. 11 & 12 N.
Rs 23. & 24 E.

Land Rolling.

Soil 2^d rate

Timber of Juniper
Vegetation of Bunchgrass.

I carefully examined the
adjustments of my solar
compass today, partic-
ularly the latitude and
reversing apparatus,
and found them correct.
July 18, 1882

Exterior N. B. S. 12 N. R 24 E.

Chairs

From the Cor. to Sps 11+12 N.

Rs 23 + 24 E. From

North bet. Secs. 31 + 36.

Var. $13^{\circ}30'E$

Descend gradually

16.30 Cross Wash colts wide course N.

& ascend

40.00 Set a Sandstone 16 + 10 + 4 ins.

11 ins. in the ground for $\frac{1}{4}$

sec. Cor. marked $\frac{1}{4}$ on

N face, and raised a

wounded stone along-

side, Pts impracticable

42.50 Paper spurs to E. N. descend

74.20 Cross Wash colts wide course

S. 64° N. and ascend

80.00 Set a Sandstone 14 + 10 + 3 ins.

10 ins. in the ground for

Cor. to Secs. 25, 30, 31 + 36

W. B. T. 12 N. R. 24 E.

chains

marked with scratches on
North and scratch on S. edge.
and raised a mound of
earth 2 ft. high 4 1/2 ft. base
along side

Land Policy.

Soil 3^d rate

Timber of Juniper,

Vegetation of Berned grass.

North bet. Secs. 25 & 30

Cor. 13° 28' E.

Ascend gradually

4000 Set sandstone 16 x 8 x 3 in.

11 in. in the ground for 1/4

Sec. cor. marked 1/4 on N.

face, dug pits 18 x 18 x 12 in.

Int. of stone 5 1/2 ft. dist.

W. B. T. 12 N. R. 24 E.

chain

and raised a mound of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base alongside.

47.00 Tap a f. p. m. brs S. 24° W. and descend

56.30 brs. Work 20 lbs. w. d. y. across S. 60° W. and ascend

80.00 Set a Sandstone $18 \times 12 \times 3$ ins. 12 ins. in the ground for cor. to Secs. 19, 24, 25 & 30. marked with 4 watches on N and 2 watches on S. edges and raised a mound of stone alongside.

Pit impracticable
Sand rolling.

Soil 0^d rate

Timber of Juniper
Vegetation of *Burchardia*

W. B. T. 12 N. R. 24 E.

Diary

North bet. Secs. 19 & 24

Cor. $13^{\circ} 30' 18''$

Ascend gradually

15.60 Top of Bluff, to N. 80° W.
& descend

40.00 Set a Sandstone $16 \times 10 \times 4$
ins. 12 ins. in the ground
for $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$
on N. face, dug pits $18 \times 8 \times 12$
ins. N. S. of cor. $5 \frac{1}{2}$ ft. dirt,
and raised a mound of
earth $1 \frac{1}{2}$ ft. high $3 \frac{1}{2}$ ft.
bore alongside

80.00 Set a Sandstone $14 \times 9 \times 6$ ins.
10 ins. in the ground, for
cor. to Secs. 13, 18, 19 & 24,
marked with 3 notches
on N. S. edge, dug raised
a mound of stone along

W. B. S. 12 N. R. 24 E.

Chain

side, Pit's impunctate
Land Rolling.

Soil 3^d 2nd

Member of Juniper
Vegetation of Pencilgrass.

North bet. Secs. 13 & 18.

Var. 13^e 15^e.

Described

4000 Sit a Sandstone 16x8x4
ins. 11 ins. in the ground for
1/4 sec. bur. marked 1/4
on W. face Aug pits 18x10x4
ins. W. of cor. 5 1/2 ft. dist.
and raised a mound of
earth 1 1/2 ft. high 2 1/2 ft.
base along side

8000 Sit a Limestone 16x10x4

W. B. T 12 N. R 24 E.

clains

ins 11 ins. in the ground
for cor. to Secs. 7, 12 & 3 & 18
marked with 2 notches on
North and 4 notches on
S. edges, and raised a
mound of stone along-
side, Pit unpracticable
Land Rolling.

Soil 3^d rate

Timber of Juniper

Vegetation of Bunchgrass.

North bet. Secs. 7 & 12

Var. 13° 28' 8"

Descend

4000

Set a Sandstone 14 & 10 & 6
ins. 10 ins. in the ground
for 1/4 sec. cor. marked

W-B. S. 12 N. R. 24 E.

Chains

1/4 on W. face and raised a mound of stone along-side Pit impracticable

41.60 Cross Wash 30 lbs wide, course N. 40° W. and ascend

8000 Set a Basalt stone 16 x 9 x 4 ins. 11 ins. in the ground for cor. to Secs 1, 6, 7 & 12. marked with 1 notch on N & 5 notches on S. edge, and raised a mound of stone along side.

Pit impracticable sand rolling. Soil 3' ^{at} ~~at~~ vegetation of *Rumex*

North bet. Secs. 14 & 6.

Var. 12° 18' E.

Ascend

40.00 Set a Basalt stone 24 x 19 x 3

W. B. 1.12 N. R. 24 E.

Chains

ins. 18 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
on W face, and raised
a mound of stone alongside
Pits impracticable

63.40 Top of ridge to N 45° W. &
descend

66.10 Intersect the 3^d Standard
Parallel North 9.00 chs. West
of Standard cor. to Spg
13 N. R. 23 x 24 E. which
is a volcanic stone 20 x 20 ins
sq. set firmly in the ground
properly notched with
mound of rocks on E side
at point of Intersection Set
a Sandstone 16 x 10 x 4 ins.
11 ins. in the ground for
closing cor. W Spg 12 N.

W. B. P. 12 N. R. 24 E.

Chairs

Rs 23 & 24 E. marked C.C.
with 6 notches on S. E & W.
edges, and raised a
unwound of stone alongside.
Pits impracticable.

Land Rolling.

Soil 3^d rate

Number of Juniper
Vegetation of Bunchgrass.

I carefully examined
my Solar Compass today
particularly the libi-
side and reversing
apparatus and found
them correct.

July 19, 1882.

Estorion S.B. T. 11 N R 22 E.

claim

Before proceeding further
 I made a change of 5
 minutes in the latitude
 arc of my Solar Compass
 by subtracting same from
 the reading previously given
 at at noon took the latitude
 and found it to be
 $34^{\circ} 16'$ North. at the cor. to
 Tps 10 & 11 N. Rs 21 & 22 E.
 which is a Basalt stone
 $16 \times 12 \times 8$ ins. set firmly in
 the ground marked with
 bristles on each edge
 with stone mound alongside
 From the cor. to Tps 10 & 11
 N. Rs 21 & 22 E. I run
 East on a random line
 bet. Tps 10 & 11 N. through

S. B. S. 11 T. R. 22 E.

chain

Range 22 E.

Var $13^{\circ}30'E$

Set temporary corners at every 40 chs and at 5 miles 78.10 chs I arrive at a point 200 lbs South of cor. to Sps 10 & 11 N. R. 22 & 23 E. which is a Basalt stone $16 \times 12 \times 5$ ins.

set firmly in the ground and marked with 6 notches on each edge with stone mound alongside.

The correction for the true line will therefore be 46 lbs N. and 1.90 chs West per mile, and its course will be $S. 89^{\circ}40' W.$

S. B. T. 11 N. R. 22 E.

chains

From the Cor. to Tpo 10411 N.
 Rs 22 x 23 E. From
 S. 89° 40' W. on a true line
 bet. Secs. 1 & 36.

Var. 14° 10' E.

descend

40.00 Set a Basalt stone 17 x 9 x 4
 ins. 12 ins. in the ground
 for 1/4 sec. cor. marked 1/4
 on N. face and raised a
 row of stone alongside
 Pits impracticable.

49.83 Cross Wash 25 lbs with corner
 N. 12° W. and ascend

80.00 Set a Basalt stone 19 x 10 x 5
 ins. 13 ins. in the ground
 for Cor. to Secs. 1, 2, 35 & 36
 marked with 1 notch on
 E. 5 notches on W. edge,

S. B. T. 11 N. R. 22 E.

chains

and raised a mound
of stone alongside Pit
impracticable.

Land rolling.

Soil 3^d rate

Timber of green fir

Vegetation of bunchgrass.

on a tree line

S. 89° 40' W. bet. Secs. 2 & 35.

Cor. 10° 34' E.

Ascend

4000

Set a Basalt stone 2' x 13.5
ins. 15 ins. in the ground
for 1/4 sec. cor. marked 1/4
on N. face, and raised
a mound of stone along
side Pit impracticable

8000

Set a Basalt stone

Exposures S. B. P. 11 N. R 22 E. cont.

Chasius

24 x 13 x 5 ins. 18 ins. in
the ground for cor. to
Secs. 2, 3, 34 x 35, rebarbed
with 2 notches on E & 4 notches
on W. edge, and raised a mound
of stone alongside Pt in unproductive

Land Rolling

Soil 3^d rate

Timber of Juniper

Vegetation of Bunchgrass.

on a true line

S. 89° 40' N. bet. Secs 3 & 34

Tr. 11° 34' E

Ascend

40.00 Set a Basalt stone 20 x 9 x 5 ins.
16 ins. in the ground for 1/4
sec. cor. marked 1/4 on N.
face, and raised a mound

S. B. T. 11 N. R. 22 E

Chains

70.00

80.00

of stones alongside Pit
 impracticable, and descend
^{Top of ridge to N. 22° W.}
 Set a Basalt stone $24 \times 13 \times 5$ ins.
 18 ins. in the ground for cor.
 to Secs. 34, 33 & 34, marked
 with 3 notches on E. W. edge,
 and raised a rounded
 stone alongside Pit imp-
 racticable.

Land rolling

Soil 3^d rate

Diriber of graminifer
 Vegetation of Burck goats.

S. $89^{\circ} 40' W.$ on a true line
 bet. Secs. 4 & 33.

Nor. $14^{\circ} 50' E.$

descend

S. B. S. 11 N. R. 22 E

chains

- 40.00 Set a Basalt stone $21 \times 17 \times 5$ ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face, and raised a mound of stone along side, Pit impracticable.
- 48.00 Enter dry Lake to West.
- 73.00 Leave dry Lake to West.
- 80.00 Set a Basalt stone $24 \times 9 \times 9$ ins. 18 ins. in the ground for cor. to Secs. 4, 5, 32 & 33, marked with 4 notches on E & 2 notches on N. edges, from which
- a Juniper 12 ins. dia. to N. 82° W. 165 ft. dia. marked S. 11 N. R. 22 E. S. 32 B. T. ^{with top near} Land Rolling.
- Soil 3d. rate
- Number of Juniper

S. B. N. 11 N. R. 22 E.

Chairs

Vegetation of Birch grass.

S. 89° 40' W. on a true line
bet. Secs. 5 & 32.

Var. 12° 30' E.

Ascend

16.41 Top of ridge to N W & descend

40.00 Set a Basalt stone, 32 x 14 x 8
ins. 24 ins. in the ground
for 1/4 sec. cor. marked 1/4
on N face, and raiseda mound of stone along-
side, Pit impracticable80.00 Set a Basalt stone 24 x 10 x 7
ins. 18 ins. in the ground
for cor. to Secs. 5, 6, 3 & 32.
marked with 5 notches
on E & 1 notch on N. edge.

S. B. P. 11 N. R. 22 E.

Chairs

and raised a mound of
stone along side from which
a Juniper 34 in. dia. to N. 14° E. 175 lb dist.
marked P. 11 N. R. 22 E. S. 32 B. P.
a Juniper 16 in. dia. to N. 58° W. 232 lb dist.
marked P. 11 N. R. 22 E. S. 31 B. P.

Land Rellings.

Soil 2^d set

Timber of Juniper
Vegetation of Bunchgrass.

S. 89° 40' W. on a true line,
bet. Secs. 31 & 32.

Var. 13° E.

Resend

4000 Set a Basalt stone 18 x 10 x 5 in.
12 in. in the ground for 1/4
sec. for. marked 1/4 on N.

S. B. T. 11 N. R. 22 E.

chains

face, and raised a mound
of stone along side, from which
a Pine 8 in. dia. to S. 76° W. 51 Ch. dist.
marked 1/4 S. B. T.

78. 10 The cor. to Tps 10 & 11 N.
R. 21 & 22 E.

Land Rolling.

Soil 2^d rate

Timber of Immature Pine
Vegetation of Burned grass.

Extensions E. B. T. 11 N. R. 22 E.

Leaves

From the Cor. to Tps 10 & 11 N.

R. 22 & 23 E. From

North bet. Secs. 31 & 36.

Var. 140 E.

4000

Set a Basalt stone 14 x 8 x 3

ins. 10 ins. in the ground
for 1/4 sec. cor. marked 1/4
on N. face, and raised a
mound of stone, along side,
Pit impracticable

8000

Set a Basalt stone 24 x 16 x 5

ins. 18 ins. in the ground for
cor. to Secs. 25, 30, 31 & 36.

marked with notch on S.
and 5 notches on N edge,
and raised a mound of
stone along side, Pit imp-
racticable.

Land Pulling. Soil 3^d rate

E. B. P. 11 N. R. 22 E.

Chains

Number of Jumps.
 Vegetation of Bunchgrass.

North bet. Secs. 25 & 30.

Var. 10° 30' E.

Ascend

- 9.00 Top of ridge to E. W. & descend
 4.00 Set a Basalt stone $2\frac{1}{2} \times 1\frac{3}{4} \times 4$
 ins. 15 ins. in the ground for
 $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$ on
 West face and raised a
 mound of stone along side
 Pit impracticable.
- 52.40 Cross Wash 20 lbs wide course
 N. 15° W. continue descend
- 78.00 Cross same Wash 20 lbs wide
 course N. 23° E. and continue
 descend

E. B. T. 11 N. R. 22 E.

Chains

80.00

Set a Basalt stone $24 \times 13 \times 5$
 ins. 18 ins. in the ground
 for cor. to Secs. 19, 24, 25 & 30
 marked with 4 notches
 on N & 2 notches on S. edges,
 and raised a mound of
 stone alongside. Pit imp-
 racticable.

Land Rolling.

Soil 2 d. set

Timber of Juniper

Vegetation of bunchgrass.

North bet. Secs. 19 & 24.

Var. $14^{\circ} 23' E$

Sec end

40.00

Set a Limestone $22 \times 14 \times 5$ ins.
 15 ins. in the ground for

E. B. P. 11 N. R. 22 E.

Lains

1/4 sec. cor. marked 1/4 on
W. face, and raised a mound
of stone along side, from which
a Juniper 18 ins. dia. to S. 35° E. 16 lbs dist.
marked 1/4 S. B. P.

a chain to No. 67 1/2° E. 43.00 chs dist.

65.00 a barrel to W. 2.00 chs dist.

70.72 brass Silver track 42 lbs width,
course W. descend

72.68 brass Road course N. 35° W.

80.00 Set a Basalt stone 16 x 10 x 4 ins.

11 ins. in the ground, for cor. to
secs. 13, 18, 19 & 24, marked with
3 notches on West edge, from
which a Juniper 18 ins. dia. to S. 22° E. 59 lbs dist.
marked T. 11 N. R. 23 E. S. 19 B. P.

a Juniper 6 ins. dia. to S. 44° W. 122 lbs dist.
marked P. 11 N. R. 22 E. S. 24 B. T.

a Corral Post S. 44° E. 375 lbs dist.

a Corral to No. 87 1/2° E. 418 lbs dist.

E. B. P. H. N. R. 22 E.

Series

North bet. Secs. 13 & 18.

Var. 13° 18' E

Ascend

4000 Set a Basalt stone $24 \times 12 \times 4$ ins.
 18 ins. in the ground, for $\frac{1}{4}$ sec.
 bur. marked $\frac{1}{4}$ on W face, and
 raised a mound of stone along side
 from which a *Gnupfer* 4 ins. d. c. to. 575° E. 60 ft. d. etc.
 marked $\frac{1}{4}$ S. B. D.

8000 Set a Basalt stone $19 \times 10 \times 3$ ins.
 13 ins. in the ground, for bur.
 W Secs. 7, 12, & 13 & 18. marked
 with 2 notch on N & 4 notches
 on S. edges, and raised a
 mound of stone alongside
 pit impracticable

Land Rolling.

Soil 2^d rateFurrow of *Gnupfer*

E. B. P. 11 N. R. 22 E.

Laird

Vegetation of Bushgrass

North bet. Secs. 7 & 12

Var. 12035-18!

Ascend

9.00 Top of Ridge to N. 60° W.
and descend4000 Set a Basalt stone 17x10x4
ins. 13 ins. in the ground
for 1/4 sec. cor. marked
1/4 on W. face, and raised
a mound of stone along-
side. Pits impracticable8000 Set a Basalt stone 17x10x
9 ins. 12 ins. in the ground
for cor. to Secs. 1, 6, 7 & 12.
marked with 1 notch
on N x 5 notches on S. edge.

E. B. P. 11 G. R. 22 E.

Chains

and raised a mound of
stone along side Pit
impracticable.

Land Rolling.

Soil 2^d rate

Vegetation Bunchgrass

North bet. Secs. 1 & 6.

No. 12040 'E'

over Rolling Land

40.00 Set a Basalt stone 21" x 13" x 3

ins. 15 ins. in the ground
for 1/4 sec. cor. marked 1/4
on W face and raised
a mound of stone along-
side, Pit impracticable

80.00 Set a Sandstone 18" x 10" x 5 ins.
12 ins. in the ground for

E. B. N. 11 G. R. 22 E.

chains

Cor. to Sps 11 & 12 No. R. 22 x 23 E. marked with curbs on each edge and raised a mound of stone along-side dug pits 24 x 18 x 12 in. lengthwise on each line.

Sand Rolling.

Soil 2^d rate

Vegetation of Bunchgrass

July 20th 1882.

~~From the cor. to Sps 10 & 11~~
~~Now~~

Exterior N. B. P. 11 G. R. 22 E.

Chain

From the cor. to No. 10411
N. R. 21 & 22 E. just
recently established 9
m North bet. Secs. 31 & 36
Var. 16° E!

See end

4000 Set a Basalt stone 25 x 20 x 16
ins. 18 ins. in the ground
for 1/4 sec. cor. marked 1/4
on N. face, and raised a
wound of stone alongside
Pit in perspective.

8000 Set a Basalt stone 16 x 9 x 6
ins. 11 ins. in the ground
for cor. to Secs. 25, 30, 31 & 36.
marked with 5 notches on
North and 1 notch on S.
edges, and raised a
wound of stone alongside.

W. B. P. 11 R. R. 22 E

Chains

Land Rolling.

Soil 3^d rate

Timber of Juniper

Vegetation of Bunchgrass.

North bet. Secs. 25 & 30.

Var. 13° E!

Descend

40.00 Set a Basalt stone 20 x
10 x 10 ins. 15 ins. in the
ground, for 1/4 sec. be-
marked 1/4 on W face,
and raised a mound
of stone alongside Pkts
unpreceivable.

49.00 Enter dry Basin to E. W.

70.00 Leave dry Basin to N. 60° E.

Ascend

W. B. G. N. R. 22 E

Chain

8000 Set a Basalt stone 24 x 12
 26 ins. 18 ins. in the ground
 for Cor. to Secs. 19, 24, 25 & 30
 marked with 4 notches on
 N & 2 notches on S. edges, and
 raised a mound of stone
 alongside. Pit Unproductive
Land Rolling.

Soil 2d rate

Vegetation of Bunch grass.

North bet. Secs. 19 & 24.
 Var. 12° 30' E!

Ascend

21.70 Top of divide for E. W. &
 descend

4000 Set a Basalt stone 24 x 12
 26 ins. 18 ins. in the ground

W. B. S. 11 N. R. 22 E.

chains

for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face, and raised
 a round of stone alongside
 from which a juniper 7 ins. dia.
 br. S. 58° E. 70 lks dist. marked
 $\frac{1}{4}$ S. B. T.

a juniper 8 ins. dia. br. S. 28° W. 32 lks dist.
 marked $\frac{1}{4}$ S. B. T.

8000 Set a Basalt stone $20 \times 12 \times 8$ ins.
 15 ins. in the ground for cor.
 to Secs. 13, 18, 19 & 24 marked
 with 3 notches on W. S. edges,
 from which a Pine 7 ins. dia. br. N. 54° E.
 75 lks dist. marked T. 11 N. R. 22 E. S. 18 B. T.

a juniper 10 ins. dia. br. S. 40° E. 60 lks dist.
 marked T. 11 N. R. 22 E. S. 19 B. T.

a juniper 10 ins. dia. br. S. 65° W. 92 lks dist.
 marked T. 11 N. R. 21 E. S. 24 B. T.

Land Rolling.

W. B. T. 11 N. R 22 E

chains

Soil 2^d rate

Vegetation of Bunchgrass
Number of Juniper Pine.

North bet. Secs. 13 & 18.

Var. 13° E.

Descend

40.00 Set a Basalt stone 18 x 13 x 9 ins.
12 ins. in the ground for 1/4 sec.
Cor. marked 1/4 on W face
and raised a mound of stone
alongside from which
a Juniper 10 in. dia. to S. 58° W. 130 lbs dist.
marked 1/4 S. B. S.

80.00 Set a Basalt stone 30 x 16 x 7 ins.
20 ins. in the ground, for cor. to
Secs. 7, 12, 13 & 18, marked
with 2 notches on N & 4 notches

W. B. T. 11 N. R. 22 E.

Claims

on S. edges, and raised a mound
of stone alongside, from which
Gunnifer sim. dist. on S. 12° W. 107' dist.
marked N. 11 N. R. 22 E. S. 13 B. T.

Alpine (ins. dist. on N. 44° W. 75' dist.
marked N. 11 N. R. 21 E. S. 12 B. T.

Land Rolling.

Soil 2^d rate

Vegetation of Brush grass
Timber of Pine & Cedar.

North bet. Secs. 7 & 12

Var. 130° 30' E!

Descend

4000 Set a Basalt stone 16 x 12 x 8
ins. 12 ins. in the ground
for 1/4 sec. cor. marked 1/4
on W. face and raised

N. B. S. 11 N. R 22 E.

chains

66.00
76.00
80.00

a mound of stone along
 side. Pits impracticable
 Long Sag. course S. 62° E. ascend
 Top of spur to N. W. descend
 Set a Basalt stone 17x
 12x 5 ins. 12 ins. in the ground
 for Cor. to Secs. 1, 6, 7 & 12.
 marked with 1 notch on
 N and 5 notches on S. edge,
 and raised a mound of
 stone alongside Pits
 impracticable.
 Sand Rolling.
 Soil 3rd rate
 Vegetation of Bushy grass.

North bet. Secs. 1 & 6.

Var. 13° 32' E.

Descend

W. B. S. 11 N. R. 22 E

Chains

- 0.27 Cross Road course N. 80° E.
 40.00 Set a Basett stone 25 x 9 x 7
 ins. 18 ins. in the ground
 for 1/4 sec. bar marked
 1/4 on W face and raised
 a mound of stone along with
 from which a Juniper tree. Dia. to 578° E. 45
 to dist. marked 1/4 S. B. P.
 a Juniper tree. Dia. to 576° W. 37 to dist.
 marked 1/4 S. B. P.
- 77.90 Cross Road course N. 12° W.
 80.00 Set a Sandstone 20 x 12 x 4
 ins. 15 ins. in the ground
 for cor. to Sps 11 & 12 N. R. 20.
 21 & 22 E! marked with
 C notches on each edge
 dug pits 24 x 18 x 12 ins.
 dug the wise on each line
 N. S. Ex W. of stone left. S. B. P.

W. B. T. 11 N. R. 22 E.

chains

and raised a mound of
earth 2 1/2 ft. high 5 ft.
base alongside.

Sand Rolling.

Soil 2^d rate

Vegetation Bunchgrass

Rember of *Junciper*.

Exteriors. N. B. 1. 11 N. R. 22 E.

Before proceeding further
I made a change of 5
minutes in the latitude
arc of my Solar Compass
by adding same to the
reading previously
given and it was
verified and corrected
same, by observation on
the sun I further tested
instrument by reversing.

From the cor. to Sps 11 & 12
N. R. 21 & 22 E. I run
East on a random line
bet Sps 11 & 12 N. through
Range 22 E.

Var. $13^{\circ} 20' E$.

Set temporary corners at

N. B. T. 11 N. R. 22 E.

chains

every 40 chs and at
5 miles 77.65 chs. Terminate
at a point 2.80 chs South
of cor. to Sps 11 & 12 N. Rs
22 & 23. E.

The correction for the
true line will therefore be
46 lbs N. and 2.35 chs N.
per mile and its course
will be S. 89° 40' W.

From the cor. to Sps 22 & 23
11 & 12 N. Rs. 21 & 22 E.

Run S. 89° 40' W. on a true
line bet. Secs. 1 & 36.

For 12° 00' E.

Descend

5.84 Cross Wash 20 lbs wide, course
N. 74° W. and ascend
40.00 Set a Limestone 20x11x3 dm.

N. B. T. 11 N. R. 22 E.

chains

✓ 15 ins. in the ground for
 1/4 sec. cor. marked 1/4
 on N face and raised
 a mound of stone along
 side from which

Agmifer 8 ins. dia. to N. 80° E.

185 lbs dist. marked 1/4 S. B. T.

Agmifer 18 ins. dia. to S. 71° E.

114 lbs dist. marked 1/4 S. B. T.

8000 Set a Basalt stone 20x12x6
 ins. 15 ins. in the ground
 for cor. to sec. 9, 2, 3 & 36.
 marked with 1 notch on
 E. edge, and 5 notches on
 W. edge, and raised a
 mound of stone along side
 Pit trap rectangular
 Sand filling.
 Soil 3rd set

N. B. S. 11 W. R. 22 E.

Chains

Timber of Juniper
Vegetation of Bunchgrass.

one true line

S. 89° 40' W. 1/4 bet. Secs. 2 & 35.

Var. 13° E!

Ascend

40.00 Set a Basalt stone 21 x 13 x 2
ins. 16 ins. in the ground
for 1/4 sec. cor. marked
1/4 on N. face and raised
a mound of stone along-
side from which a Juniper
10 ins. dia. br. S. 87° E! 54 lbs dist.
marked 1/4 S. B. 1.

49.00 Top of Ridge br. W. S. & descend

80.00 Set a Basalt stone 24 x 10 x 3
ins. 18 ins. in the ground
for cor. W. Secs. 2, 3, 34 & 35.

H. B. P. 11 N. R. 22 E

chains

marked with 2 notches
on E & 4 notches on W. edge,
and raised a mound of
stone alongside. Pits
impracticable

Land Rolling

Soil 3^d rate

Winter of Juniper

Vegetation of Pennsylv. grass.

S. $89^{\circ} 40'$ W. on a true line
bet. Secs. 3 & 34

Var. $13^{\circ} 35'$ E.

Descend

4000 Set a Basalt stone 18x10x6
in. 12 in. in the ground
for 1/4 sec. box marked
1/4 on N. face, and raised

N. B. T. 11 N. R. 22 E.

chairs

a mound of stone along side
from which a Juniper
9 ins. dia. br. N 61° E. 13 1/2 lbs dist.
marked 1/4 S. B. P.

a Juniper 10 ins. dia. br. S. 33° E.
79 lbs dist. marked 1/4 S. B. P.

53.65 cross Wash 2 1/2 lbs wide
course N. 24° W. and ascend

66.47 cross Snowflake road course
N. 57° W.

80.00 Set a Basalt stone 19 1/2 x 4
ins. 13 ins. in the ground
for cor. to Sec. 3. 4. 33 x 34.
marked with 3 notches on
E & W edges, and raised
a mound of stone along side
not practicable.
Land Raising.

Soil 2^d rate
Timber of Juniper,

N. B. T. 11 N. R 22 E

chains

Vegetation of Bush grass.

S. 89° 40 W. on a true line
bet. Secs. 4 & 33.

Var. 13° 05' E.

Ascend

4000 Set a Basalt stone 15 x 8 x 3

ins. 10 ins. in the ground, for
1/4 sec. bor. marked 1/4 on
N face, and raised a mound
of stone alongside from
which a Juniper 6 ins. dia. to N 60° E.

165 lbs. dist. marked 1/4 S. B. T.

a Juniper 24 ins. dia. to S 33° E. 22
marked 1/4 S. B. T.

55.74 Cross Road course N. 21° W.

68.09 Top of spur to W. S. & descend

80.00 Set a sandstone 20 x 8 x 4 ins.

N. B. S. 11 N. R. 22 E.

claims

15 ins. in the ground for
 Cor. to Sec. 4, 5, 32 & 33,
 marked with 4 notches
 or 2 notches on N. edge
 from which ^{Juniper} 8 ins. dia. to N. 73° E. 39 lbs dist.
 marked P. 12 N. R. 22 E. S. 33 B. P.

a Pine 8 lbs dia. to S. 43° E. 61 lbs dist.
 marked P. 12 N. R. 22 E. S. 4 B. P.

a Juniper 6 ins. dia. to S. 36° W. 32 lbs dist.
 marked P. 11 N. R. 22 E. S. 5 B. P.

a Pine 9 ins. dia. to N. 50° W. 75 lbs dist.
 marked P. 12 N. R. 22 E. S. 32 B. P.

Land Raising.

Soil 2^d rate

Timber of Cedar & Pine

Vegetation of Brushy grass.

S. 89° 40' W. on a true line

N. B. T. 11 N. R. 22 E.

chains

bet. Secs. 5 & 32.

Var. 13° 36' E

Ascend

4000 Set a Sandstone 19 x 12 x 2 ins.

13 ins. in the ground for 1/4 sec.

Cor. marked 1/4 on N face
and raised a mound of stone
along side. Pit impracticable.64.56 Cross Silver creek 50 lbs wide
course N. 64° W. and ascend8000 Set a Basalt stone 21 x 10 x 4
ins. 15 ins. in the ground for
cor. to Secs. 5, 6, 31 & 32.

marked with 5 notches on

E & 1 notch on W. edges,
and raised a mound of
stone along side. Pit imp-
racticable.

Land Rolling.

N. B. P. 11 N. B. 22 E.

Chains

Soil 2^d rate.

Vegetation of Bunchgrass.

S. 89° 40' W. on a true line bet.
Secs. 6 & 31. Var. 13° 30' E!

Ascend

30.10 Top of Ridge to Wash. and descend

40.00 Set a Basalt stone 21 x 13 x 4 ins.
15 ins. in the ground for 1/4
Sec. bor. marked 1/4 on N face,
and raised a mound of stone
alongside Pit trap set at the

46.00 Cross Wash 20 lbs wide course N.

54.28 Enter field to N. 85° E!

59.00 A cabin to S. 37 lbs dist. &
another
* cabin to N. 56 lbs dist.

77.60 The bor. to Sps 11 x 12 N. R. 21 x 22 E.
Land rolling. Soil 2^d rate.

Vegetation of Bunchgrass, Pines of
Juniper. July 21. ²⁴ 1882.

Exteriors C. B. S. 15 N. R 26 E.

Leino

Before proceeding further with the survey of the Exterior Boundary, I made a change of 16 minutes in the latitude arc of my solar compass by adding sand to the reading previously given, and at noon verified & corrected same by observation on the sun, I also tested instrument by nooning. I took the latitude at cor. to Sps 14 & 15 N. R. 26 & 27 E. and found it to be $34^{\circ} 37'$ North.

From the cor. to Sps 14 & 15 N. R. 26 & 27 E. just recently re-established

E. B. T. 15 N. R. 26 E

chains

1 mm north bet. Secs. 31 & 36
 Var. $14^{\circ} 10' E$.

Ascend

16.00 Dip of spur lvs N.E. & descend

4.00 Set a Basalt stone $12 \times 8 \times 8$ ins.

8 ins. in the ground for $1/4$ sec.

Cor. marked off on N. face

dug pits $18 \times 18 \times 12$ ins. Prod.

of cor. $5/8$ ft. dist. and raised

a mound of earth $1/2$ ft. high

$3/4$ ft. base alongside

8.00 Set a Sandstone $12 \times 9 \times 7$ ins.

8 ins. in the ground, for cor.

to Secs. 25 & 30. 31 & 36. marked

with 5 notches on N. & 1 notch

on S. edges, dug pits $18 \times 18 \times 12$

ins. in each sec. $5/8$ ft. dist.

and raised a mound of

earth $2/3$ ft. high, $4/5$ ft. base.

E. B. T. 15 N. R 26 E.

cliffs

along side
 Sand Rolling
 Soil 2^d rate
 Vegetation of Bunchgrass.

North bet. Secs. 25 & 30.

Var. 14° 10' E!

Descend

8.00 Cross Wash 5 lbs wide, course
W. and ascend

4.00 Set a lava stone 10 x 8 x 8 in.
 pins in the ground for 1/4 sec.
 bar. marked 1/4 on W. face
 dug pits 18 x 8 x 12 in. W. of
 of stone 5/8 ft. dist. and
 raised a mound of earth
 1/8 ft. high 3/8 ft. base a strong
 side.

E. B. P. 15 N. R 26 E

Stems
80.00

Set a Post 4 ft. long 4 ins. square, with marked stone rim in the ground for cor. to sec. 19. 24. 25 & 30 marked P. 15 N. S. 19 on N. E. R. 27 E. S. 30 on S. E.

R. 26 E. S. 27 on S. W. and S. 24 on N. W. faces, with 4 notches on N. & 2 notches on S. edges, dug pits 18 x 18 x 12 ins. in each sec. 5 ft. dist. and raised a mound of earth 2 ft. high 4 1/2 ft. base around post.
Land selling

Soil 2d. out

Vegetation of Bunchgrass.

North bet. Sec. 19 x 24.

For 14° 10' E.

E. B. T. 15 N. R. 26 E.

chains

Ascend

4000 Set a Sandstone $10 \times 10 \times 6$ ins.
 7 ins. in the ground for $1/4$
 sec. cor. marked $1/4$ on N. face, dug
 pit $18 \times 18 \times 12$ ins. W. of post $5/2$
 ft. dist. and raised a mound of
 earth $1/2$ ft. high $3/4$ ft. base along with

8000 Set a post 4 ft. long 4 ins. square, with
 marked stone 12 ins. in the ground for
 cor. to sec. 13, 18, 19 + 24. marked
 S. 15 N. S. 18 on N. E.

R. 27 E. S. 19 on S. E.

R. 26 E. S. 24 on S. W. and

S. 13 on N. W. face, with 3 marks
 on W. edge, dug pits $18 \times 18 \times 12$
 ins. in each sec. $5/2$ ft. dist. and
 raised a mound of earth $2/3$ ft. high
 $4/4$ ft. base around post.

Land Rolling.

E. B. P. 15 N. R. 26 E.

Leim

Set 2^d rate
Vegetation of Ranchgrass.

North let. Sec. 13 & 18.

Var 14° 10' E.

Ascend

4000 Set a Lava stone 14 x 12 x 6 in.
10 in. in the ground for 1/4 sec.
Cor. marked 1/4 on W face, dug
pit 18 x 18 x 12 in. N. of cor.
5/8 ft. dist. and raised a mound
of earth 1 1/2 ft. high 3/4 ft. base
alongside.

7000 Enter cedar timber on E. W.

8000 Set about 4 ft. long 4 in. square,
with marked stone 1 in. in the
ground, for cor. to sec. 7 & 12. B.
& 18. marked

E. B. P. 15 N. R. 26 E.

Ruins

S. 15 N. S. 7 on E. E.

R. 27 E. S. 18 on S. E.

R 26 E. S. 13 on S. W. and

S. 12 on E. W. faces, with 2 notches
on E & 4 notches on S. edge, dug pits
18 x 18 x 12 ins. in each sec. 5 ft.dist. and raised a mound of
earth 4 ft. high 4 1/2 ft. base around
foot.

Land selling.

See C 2d note

Vegetation of Bunchgrass.

North bet. Secs. 7 & 12.

Nor. 14° 10' E.

As usual

40.00 Set about 3 ft. long 4 in. dia. with
marked stone 12 ins. in the

E. B. T. 15 N. R. 26 E.

chain

ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ sec.
 on N. face, dug pits $18 \times 18 \times 12$ ins.
 W. of post $5\frac{1}{2}$ ft. dist. and
 raised a mound of earth $10\frac{1}{2}$ ft.
 high $5\frac{1}{2}$ ft. base around post

8000

Set a post 4 ft. long 4 ins. sq.
 with marked stone 12 ins. in
 the ground for cor. W. sec. 1. 6. 7 & 12
 marked P. 15 N. S. 6 on N. E.
 R. 27 E. S. 7 on S. 2.

R. 26 E. S. 12 on S. W. and
 S. 1 on N. W. faces, with 1 notch
 on N. & 3 notches on S. edges, dug
 pits $18 \times 18 \times 12$ ins. in each sec.
 $5\frac{1}{2}$ ft. dist. and raised a mound
 of earth $2\frac{1}{2}$ ft. high $4\frac{1}{2}$ ft. base around post.
 Land Rolling.

S. or C. 2. d. rate

Vegetation of brush & grass

E. B. T. 15 N. R. 26 E.

chain

North bet. Secs. 1 & 6.

Var. $14^{\circ}10' E$

less used

40.00 Set a Post 4 ft. long, 4 in. sq. with
marked stone 12 in. in the ground
for $1/4$ sec. cor. marked $1/4 S.$ on $W.$

face, dug pits 18 x 18 x 12 ins. W. of
of post. $5/8$ ft. dist. and raised
a mound of earth $1 1/2$ ft. high
 $3/8$ ft. bare around post.

80.00 Set a Post 4 ft. long 4 in. sq.
with marked stone 12 in. in the
ground for cor. to $1/2$ Secs. 15 & 16 N.

R. 26 & 27 E. marked

T. 16 N. S. 31 on N. E.

R. 27 E. S. 6 on S. E.

T. 15 N. S. 1 on S. W. end

R. 26 E. S. 36 on N. W. face,

with 6 notches on each edge

E. B. T. 15 N. R. 26 E.

chains

Dug pits 24 x 18 x 12 in. length-
wise on each line N. S. E. & W.
of posts 6 ft. dist. and raised a
mound of earth 2 ft. high
5 ft. base around post.

Land Rolling.

Soil 2^d rate

Vegetation of Bunchgrass.

I carefully examined ^{the adjustments of} my
Solar compass today, par-
ticularly the latitude and
sighting apparatus and
found them correct

July 25th 1882.

Exterior W. B. S. 15 N. R. 26 E.

chain

From the cor. to Sps 14 & 15 N.
 Rs 25 & 26 E. just recently re-
 established which is a lime
 stone properly matched with
 stone mound on N. side
 I now work bet. Secs. 31 & 36.
 Var. 14° 10 E.

Descending

1000 Enter valley on N. E. S. W. 20 ft deep
 across valley

4000 Set a Sandstone 18 x 12 x 10 ins. 12
 ins. in the ground for 1/4 sec. cor.
 marked 1/4 on W. face, dug pit 18 x 10 in
 sur. W. of stone 5 ft. dist. and
 raised a mound of earth 1 1/2 ft. high
 3 ft. base along side,

4300 By wash 8 lbs wide course S. 10° W.
 Ascend

8000 Set a Sandstone 14 x 10 x 8 ins.

W. B. S. 15 N. R 26 E.

Chairs

10 ins. in the ground, for Cor.
to sec. ²⁵ 30. 31. & 36. marked with
5 notches on N & 1 notch on S.
edges, dug pits 18 x 18 x 12 ins.
in each sec. 5/8 ft. dist. and
raised a mound of earth 1/2 ft. high
4/8 ft. base along sides.

Land Rolling

Soil 2^d rate

Good grazing. Some undergrowth

North bet. Secs. 25 & 30.

Var. 14° 10' E.

Ascend gradually

4000

Set a Sarsenetone 16 x 13 x 10 ins. 10
ins. in the ground for 1/4 sec. Cor.
marked 1/4 on N face, dug
pits 18 x 18 x 12 ins. W. of stone

W. B. N. 15 N. R. 26 E

Chairs

- 8000 5 1/2 ft. dist. and raised a mound of earth 1 1/2 ft. high 3 1/2 ft. base along side.
- Set a sandstone 12 x 10 x 7 ins. 8 ins. in the ground for cor. tables 19, 24, 25 & 30. marked with 4 notches on N and 2 notches on S. edges, dug pits 18 x 18 x 12 ins. in each sec.
- 5 1/2 ft. dist. and raised a mound of earth 2 ft. high 4 1/2 ft. base along side.
- Land Rolling
- Soil 2d rate
- Good grazing.

North bet. Secs. 19 & 24

Var. 14° 10' E.

- 23.50 Work 15 lbs wide wide course S. 20° W.
- 4000 Set a sandstone 12 x 10 x 7 ins.

W. B. P. 15 N. R. 26 E.

chains

8 ins. in the ground, for $\frac{1}{4}$ sec.
 loc. marked $\frac{1}{4}$ on W. face,
 dug pits $18 \times 18 \times 12$ ins. N.S. of
 stone $5\frac{1}{2}$ ft. dist. and raised a
 mound of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$
 ft. base alongside

20.00 Set a sandstone $10 \times 10 \times 5$ ins.
 6 ins. in the ground, for cor. to
 Secs. 13, 18, 19 & 24, marked with
 3 notches on N.S. edges, dug pits
 $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft.
 dist. and raised a mound of
 earth 2 ft. high $4\frac{1}{2}$ ft. base alongside.
 Land Raising.
 Soil 2d rate, good grazing.

North bet. Secs. 13 & 18.

Nor. $14^{\circ} 10' E$

N. B. P. 15 N. R. 26 E.

Chairs

ascend gradually

28.00 Ridge hrs Ex W. 95ft. high
descend

40.00 Set a Limestone 16x12x10 ins.
11 ins. in the ground for 1/4
sec. cor. marked 1/4 on W.

face, dug pits 18x18x12 ins. West
of stone, 5 1/2 ft. dist. and raised
a mound of earth 1 1/2 ft high
3 1/2 ft. base alongside.

80.00 Set a Sandstone 18x9x5 ins.
12 ins. in the ground for cor.
to Sec. 7. 12. 13 & 18. marked

with 1 notch on N. & 5 notches
on S. edges, dug pits 18x18x12
ins. in each sec. 5 1/2 ft. dist.
and raised a mound of earth
2 ft high 4 1/2 ft. base alongside
Land rolling, 1st or 2^d net

W. B. T. 15 N. R 26 E.

chain

Good grazing.

North bet. Secs. 7 & 12.

Var. $14^{\circ}10'E$.

Descend gradually

4000

Set a Limestone $10 \times 10 \times 9$ in. 6 in. in the ground for $\frac{1}{4}$ sec.

Cor. marked $\frac{1}{4}$ on W face, dug pits $18 \times 18 \times 2$ in. N. of cor. $5\frac{1}{2}$ ft. dist. and raised a mound of earth $5\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base along side

49.65

Work 8 lbs wide course $S. 50^{\circ} W. 3\frac{1}{2}$ ft. ^{high}

54.70

Work 7 lbs wide course $S. 72^{\circ} W.$ exceed.

80.00

Set a Post 4 ft. long 4 in. sq. with marked stone 1 in. in the ground for cor. to Secs. 1, 6, 7, & 12. marked $S. 15^{\circ} E.$ S. 6 on N. E., R 26 E. S. 7 on S. E., R 25 E. S. 12 on S. W. and S. 1 on N. W. faces.

W. B. S. 15 N. R. 26 E.

Lines

with 1 notch on N. and 5 notches
on S. edges, dug pits 18x18x12 ins.
in each sec. 5/2 ft. dist. and
raised a mound of earth 2 ft.
high 4/2 ft. base around post.
Land Pulling, Soil 2^d rate
Good grazing.

North bet. Secs. 1 & 6.

Var. 14° 10' E.

Ascending gradually

4000 Set a post 3 ft long 5 ins. dia. with
marked stone 12 ins. in the ground
for 1/4 sec. hor. marked 1/4 S. on W.
face, dug pits 18x18x12 ins. W.S. of
post 5/2 ft. dist. and raised a mound
of earth 1 1/2 ft. high 2 1/2 ft. base around post.
69.00 Point of Ridge to N. 30° E' 4 ft high

N. B. S. 15 N. R. 26 E.

Chairs

8000 Set a Sandstone $14 \times 12 \times 9$ ins.
 10 ins. in the ground for cor. to ~~Sp.~~
 15×16 N. Rs 257 26 E. marked
 with 6 notches on each edge, dug
 pits $24 \times 18 \times 12$ ins. lengthwise on
 each line N. S. E. W. of stone Cft.
 Dist. and raised, mound of earth
 $2\frac{1}{2}$ ft. high 5 ft. base alongside.
 Land Rolling, Soil 2^d rate
 Good grazing.

Exterior N. B. N. 15 N. R. 26 E.

chain

Before proceeding further I made a change of 5 minutes in the latitude arc of my Solar compass by adding same to the reading previously given and at noon verified and corrected same by observation on the sun, I also tested instrument by reversing.

Took latitude & found it to be $34^{\circ} 42'$ North.

From the cor. to Sp. 15 & 16 N.

Rs 25 & 26 E. Run East on a random line parallel with the line on S. by of Sp. which is N. $84^{\circ} E$. at temporary corners at every 40 chs and at 6 miles 35.80 chs I arrive at a point 25 chs S. of cor. to Sp. 15 & 16

N. B. P. 15 N. R 26 E.

Leaves

to Rs 26 & 27. E. which point
was established by me just now.

The correction for the true line
will therefore be 4 h. and
35. 80 chs E. per mile, and
the course will be S. 83° 58' W.

From the cor to Sp. 15 & 16 N.

Rs 26 & 27 E. from S. 83° 58' W.
on a true line bet. Secs. 1 & 36

Var. 4° 10' E!

over Mesa in scattering timber
Leave timber to N. S.

34.00

4.00

Set a post 4 ft long 4 ins. sq
with marked stone 12 ins. in the
ground for 1/4 sec. cor. marked
1/4 S. on N. face dug pits 18 & 18 in
ins. Et W. of post 5/8 ft. dist.
and raised a mound of earth
around post.

N. B. T. 15 N. R. 26 E.

Chains

53.00 Leave Mesa to N. Ex S. W.

Descend abruptly

80.00 Set a sandstone $10 \times 10 \times 6$ ins.

6 ins. in the ground for cor. to
 Secs 1, 2, 35 & 36. marked with
 1 notch on E & 5 notches on W. edge,
 dug pits $18 \times 18 \times 12$ ins. in each
 sec. $5 \frac{1}{2}$ ft. dist. and raised
 a mound of earth 2 ft. high
 $4 \frac{1}{2}$ ft. base along side.

Land on Mesa, Soil 2^d rate
 Timber of cedar, Good grazing.

$5^{\circ} 30' 58''$ W. on a true line
 bet. Secs. 2 & 35. Var. $140' 10''$ E.

Descend abruptly

40.00 Set Sandstone $12 \times 10 \times 8$ ins. 8 ins.
 in the ground for $\frac{1}{4}$ sec. bet.

N. B. T. 15 N. R 26 E.

Chains

marked 1/4 on N face, dug pits 18x18x12 ins. Et W. of stone 5/8 ft. dist. and raised a mound of earth 8/8 ft high 3/8 ft. base alongside.

79.00 Enter Simpson valley to N. 70° E.
L.S. 70° W.

80.00 Set a Sandstone 12x9x6 ins.
8 ins. in the ground for Cor. to
Secs. 2, 3, 34 & 35. marked
with 2 notches on E & 4 notches
on W. edge, dug pits 18x18x12
ins. in each sec. 5/8 ft dist.
and raised a mound of earth
2 ft high 4/8 ft. base alongside.
Sandumont across
Soil 3^d rate
Good grazing.

N. B. T. 15 N. R. 26 E.

chains

S 83° 58' W. on a true line
bet. Secs. 3 & 34.

Var. 14° 10' E.

Descend across valley

40.00 Set adena stone 10x8x8 ins.

7 ins. in the ground for 1/4 sec.

Cor. marked 1/4 on N face dug

pits 18x18x12 ins. E & W of

stone 5/8 ft. dist. and raised

a mound of earth 1 1/2 ft. high

3/8 ft. base along side.

80.00 Set Petrified wood 10x10x10

ins. 6 ins. in the ground for

Cor. to Secs. 3, 4, 33 & 34, marked

with 3 notches on E & W. edge,

dug pits 18x18x12 ins. in each

sec. 5/8 ft. dist. and raised a

mound of earth 2 ft. high

4 1/2 ft. base along side.

N. B. T. 15 N. R. 26 E

Chain

Land nearly level

Soil 2^d rate

Good grazing.

S. $83^{\circ} 58'$ W. on a true line
bet. Secs. 4 & 3 B.Var. $14^{\circ} 10'$ E.

17.75 Descend gradually across valley
Wash 15 lbs wide course S. 60° W.
3 ft. deep Ascend

4.00 Set a Sandstone $10 \times 10 \times 8$ ins.
7 ins. in the ground for $\frac{1}{4}$ sec.
hor. marked $\frac{1}{4}$ on 2 faces
dug pit $18 \times 18 \times 12$ ins. E. W.
of stone $5 \frac{1}{2}$ ft. dist. and
raised a mound of earth $1 \frac{1}{2}$
ft. high $3 \frac{1}{2}$ ft. base along side

65.00 Leave Surprise valley, look E. & W.

N. B. P. 15 N. R. 26 E.

chains

over Rolling Hills.

8000 Set a sandstone 12+1029
 in. 8 in. in the ground, for
 Cor. to Secs. 4, 5. 32+33 marked
 with 4 notches on E & 2 notches
 on W. edges, dug pits 18+18+12
 in. in each sec. 5/8 ft dirt.
 and raised a mound of
 earth 2 ft high 4 1/2 ft. base
 along side,

Land rolling. Soil 2^d cat
 in valley 3^d on mesa.

Good grazing.

July 26th 1882

S. 83° 58' W. on a true line
 bet. Secs. 5 & 32.

Nor. 14° 10' E
 over rolling ground

N. B. P. 15 N. R. 26 E.

chain

4000 Set a Sandstone $10 \times 8 \times 8$ ins. 7 ins. in the ground for $1/4$ sec. bar. marked $1/4$ on N face, dug pits $18 \times 18 \times 12$ ins. E. W. of stone $5/8$ ft. dist. and raised a mound of earth $1/2$ ft. high $3/8$ ft. base along side.

8000 Set a Sandstone $12 \times 9 \times 7$ ins. 8 ins. in the ground for cor. holes. 5. 6. 31 & 32. marked with 5 notches on E. 1 notch on W. edge, dug pits $18 \times 18 \times 12$ ins. in each sec. $5/8$ ft. dist. and raised a mound of earth $1/2$ ft. high $4/8$ ft. base along side.
Land Hilly

Soil 2^d set

Good grazing.

N. B. T. 15 N. R. 26 E.

Chains

S. $83^{\circ} 38'$ W. on a true line
bet. Secs. 6 & 31Var. $14^{\circ} 10' E.$

40.00 Set a Sandstone $10 \times 10 \times 6$ ins.
7 ins. in the ground for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ on N face,
dug pit $18 \times 18 \times 12$ ins. E & W.
of post 5 ft. dist. and raised
a mound of earth $1 \frac{1}{2}$ ft.
high $3 \frac{1}{2}$ ft. base along side

115.80 The cor. to Tps 15 & 16 N. R.
25 & 26 E.

Land Hilly

Soil 2d rate

Good grazing.

 July 27. 1882.

U. S. Surveyor General's Office,
Tucson, Arizona, February 7, 1882

the foregoing Field Notes of the survey of the

Exterior Lines

of

E. W. Nes. Bds. Ops. Ranges

22, 24, 25 and 26,

the Gila and Salt River Base and Meridian, Arizona,
executed by O. W. Wheeler,

S., under his contract of the 31st day of
May, 1882, having been critically ex-

amined and the necessary corrections and explanations
made, the said Field Notes and the surveys they de-
scribe, are hereby approved.

J. W. Robinson

Surveyor General.