

Book No. 7

1404

BOOK 1404

Field Notes

See Index
OF THE SURVEY OF THE

Exterior lines

S. 901. R. 24 T. 20 E.
S. 1201. R. 20 E.
S. 1501. R. 27 T. 25 E.

Township Range

Give Base and Meridian

BOOKTM 1404

1404

No. 14

Comp. [unclear]
[unclear]

No. 1404

For description of instrument
and preliminary notes
see Book

Survey commenced Oct. 27th 1882
" completed Apr. 14th 1882

5857	55	54	53	52					
				45					
				46	BOOK	1404			
5157	R	22E		47	5157	N	28E		
				48					
				49					
				50					

J. 9 A. R. 24 E.

BOOK 1404

Cross wash 30 miles to the Co.
N. 70° W. thence over rolling ground
The Co. to E. 9 and 10 A.
R. 23 and 24 E.
Juniper rolling hills
Soil 3rd. rate

Good grazing
Dwarf Pine and Spruce
timber some Juniper

I carefully examined the
adjustments of my Solar.
Reference to-day particularly
the latitude and reversing
apparatus and found them correct
October 30th 1882.

North Boundary of

Chs.

From the Co. to
 Ips. 9 and 10 St. Res.
 24 and 25 E. recently
 established by me. I
 ran East on a random
 line with a variation
 of $14^{\circ} 30'$ E. setting
 temporary 14 and 15 St.
 Res. 7 at each 40 and
 80 Chs. and at 475.61
 Chs. arrive a point
 112 links N. of the
 Co. to Ips. 9 and 10
 St. Res. 25 and 26 E.
 which is a limestone
 12×10 ins. with 6 notches
 on each edge and a
 mound of stone along side

J. 9 A. R. 25 E.

the

Thence I ran N. $89^{\circ} 50' W.$
 on a true line bet.
 Sec. 1 and 36 R. 25 E.
 T. 15-30' E.

Descend

963 Cross Mineral creek
 24 links wide Co. A.
 and ascend

450 Top of low ridge bet. N. 16' E.
 100 ft. high and descend

4000 Set a sandstone $24 \times 15 \times 9$ ins.
 15 ins. in the ground for 44
 Sec. Cor. marked 44 on
 N. face, and raised a
 mound of stone along
 side. It is impracticable

2289 Cross road bet. N. 10' N.

7400 Cross N. Mineral creek 17
 links wide Co. A. 10' N.
 ascend

8000 Set a float stone

N. Q. J. 9 A. R. 25 E.

30x17x6 ins. 22 ins. in the
ground for br. to S.W.
1, 2, 30 and 36 marked
with notch on E. and
5 notches on N. edges.
and raised a mound of
stones alongside. Not impracticable
from which a yellow
pine 11 ins. in diam. fr.
S. 42° E. 60 links dist.
marked S. 10 A. R. 25 E.
S. 36 Q. J.

A yellow pine 30 ins. in
diam. fr. S. 45° N. 42
links dist. marked S. 9 A.
R. 25 E. S. 2 Q. J.

No other trees within limit
Surface rolling & mountainous
Soil 2nd. rate
Couch and gramma grass
Dwarf Pine timber and oak in deep growth

A. O. J. 9 C. C. 25 E.

Ch.

N. 89° 52' W. on a true
line bet. Sta. 2 and 35

Val. 120 20' E.

Ascend

4000 Set a tacalt. stone 20x12x5
ins. 15 ins. in the ground for
114 S.W. Cor. marked "N" on
N. face, and raised a mound
of stone along side.

Pile impracticable

4570 Top of hill 40 ft. high
and down.

5000 Set a tacalt stone
16x14x7 ins. 11 ins. in
the ground for Cor. to
Sta. 3. 3. 2 and 35 marked
with 2 notches on E. and
4 notches on W. edges,
and raised a mound
of stone along side. Pile impracticable
to trees near

A. B. J. 9 A. Q. 25 E.

Cho-

Surface rolling - mountains
Soil in West
Good grass

A. $59^{\circ}52'$ N. on a true
line bet. S. 3 and 24
Va. $14^{\circ}45'$ E.

Dwene

38.60 Cross creek 15 links wide

Co. A. 11° N. across

+0,00 Set a small stone $16 \times 10 \times 7$
ins. 11 ins. in the ground for 44
in. Dist. marked 44 on N. face
and raised a mound of
stone alongside.

Pip. Unproductive

8000 Set a Vacatt stone $20 \times 12 \times 8$
ins. 15 ins. in the ground
for Cr. to S. S. 4. 23 and
24 marked with 2 notches
on E. and N. edges.

S. C. J. 9 A. Q. 25 E.

Ch.

and raised a mound
of stone along side.

Pile impracticable, No trees near
Surface rolling & mountainous
S. C. J. 9 A. Q. 25 E.

Good grass

N. 59° 5' W. on a true
line bet. S. C. J. 4 and 33
Va. 150 E.

Agreed

4000 Set a sandstone 4 1/2 x 15 x 6
ins. 15 ins. in the ground
for 14 S. C. J. marked
1/4 on N. face, and raised
a mound of stone along side
Pile impracticable, from
which a white oak 8 ins.
in diam. fr. N. 70° E. 15
links dist marked 1/4

S. C. J. No other trees within limits

O. Q. J. - 9. N. Q. 25 E.

Ch.

- 45.80 Top of hill 65 ft. high
 W. β . 18° E. and descend
- 480 Cross wash 19 links wide
 W. β . 1.5° N. ascend
- 5000 Set a small stone 22 x 12 x 5
 in. 10 in. in the ground
 for Cr. to Ch. 4.5.825
 33 marked with 31 notches on
 N. and ~~4~~ notches on
 E. edges and raised a
 mound of stones along side.
 Pit impracticable
 Surface rolling
 Soil sub. rate
 Bunch grass
 Good grazing
- β . $89^{\circ} 52'$ N. on a true
 line bet. S. 5 and 32
 Va. $15^{\circ} 12'$ E.
 descend

A. O. J. 9 A. C. 25 E.

Sh.

40.00 Set a flat stone $24 \times 15 \times 10$ ins.
 12 ins. in the ground for 14
 S. Co. marked 44 on
 N. face, and raised a
 mound of stone along side.

Pit impracticable from which
 a white oak 30 ins.
 in diam. to. $A. 52^{\circ} E$, 98 links
 dist. marked 44 S. O. J.

45.90 ^{in a new grass within circles}
 Top of hill to. $A. 36^{\circ} E$,
 200 ft. high and broad

76.12 Cross mark 30 links wide
 to. $A. 13^{\circ} E$, across

78.20 Cross road to. $A. 23^{\circ} E$,

80.00 Set a flat stone $18 \times 10 \times 9$ ins.
 12 ins. in the ground for.
 to S. Co. 5. 6. 31 and 32.
 marked with 1 notch on N.
 and 5 notches on E. edge.
 and raised a mound of
 stone along side. Pit impracticable

A. B. J. 9 A. R. 25 E.

Chor

from which a white oak
 9 in. in diam. to N. 41° E.
 124 links dist. marked
 J. 10 A. R. 25 E. S. 32 B. J.
 A white oak 16 in. in diam.
 to - A. 45° N. 116 links
 dist. marked J. 10 A. R. 25 E.
 S. 31 B. J. No other trees
 within limits
 Surface more broken than
 last mile
 Soil red. red
 Scattering yellow pine
 and white oak timber
 Good grass

A. 89° 52' N. on a
 true line bet. S. 31
 & 31
 Va. 14° 36' E.
 Observed

A. Q. 1. 9 A. Q. 25 E.

Chas

4.80 Top of spur to. A. 90° E,
50 ft. high and descend

40.90 Set in Lava stone 17x15x6
in. 12 in. in the ground for
114 S. W. marked 14 on
N. face and raised a
mound of stone along it.

Pit Imperfect

56.87 Cross with 20 links with No.
A. 45° E. and ascend

73.90 Top of spur to. A. 49° E,
88 ft. high and descend

75.61 The Cor. to Sp. 9 and 10 A.
A. 24 and 25 E.

Surface broken

Soil 3rd. rate

Scattered timber of
yellow pine and scrub oak.

Good grass

Oct. 27th 1882

N. B. J. 9 N. R. 24 E.

Chs.

From the Standard Cor.
to Sp. 9 N. R. 20
and 24 E. recently estab-
lished by J. M. Brown
North lat. S. 31 and 36
Var. 14° E.

Ascend

0.50 A yellow Pine 12 ins. in diam

25.86 a yellow Pine 30 ins. in diam.

0.00 Set a small stone 17x10x7
ins. 12 ins. in the ground
for 44 S. Cor. marked
44 on N. face; and raised
from which ~~is~~ ^{is} ~~the~~ ^{the} ~~point~~ ^{point}

A yellow pine 12 ins. in diam ✓
S. 31° N. 27 lumber dist.
marked 44 S. Q. J.

a yellow pine 15 ins. id ✓
diam. S. 15° E. 34
lumber dist. marked 44 S. Q. J.

West Boundary of Townships 9 & 10

Ch.

47.00 A yellow pine 20 ins. in diam.
80.00 Set 1 a butt about

14x8x7 ins. 11 ins. in
the ground for Cor. to
S. 20. 30. 31 and 36

✓ marked with 1 notch on
S. and 5 notches on
N. sides from which
a yellow pine 7 ins. in
diam. br. S. 22° E. 34
links dist. marked T. 9 N.
R. 24 E. S. 30 B. T.

A yellow pine 10 ins. in diam.
br. S. 52° E. 46 links dist.
marked T. 9 N. R. 24
E. S. 31 B. T.

A yellow pine 6 ins. in diam.
br. S. 49° N. 50 links
dist. marked T. 9 N.
R. 20 E. S. 36 B. T.

A yellow pine 9 ins. in

Range 24 E.

Ch.

diam. tree at 68° N.

59 links dist. marked

S. 90° E. 20 E. S. 25 W. 10 E.

Sage rolling hills

Set 2d. V. rate

Couch and Buffalo grass

Down pine and oak timberNorth on N. Bound. of Sec. 30
Var. 130° E.

Obcord

14.40 A yellow pine 16 ins. in diam.

15.00 Rose spur tree at 67° N. Decid.

40.00 Set a fault stone 16x2x9

ins. 11 ins. in the ground for

1/4 Sec. Cor. marked 114 on

N. face. from which

a yellow pine 15 ins. in diam.

tree S. 40° E. 20 links dist.

marked 114 S. W. S.

A. yellow pine 11 ins. in diam.

Net Boundary J. 9 A.

Chs.

tr. S. 52° W. 50 links dist.
marked 44 S. B. J. ✓

48.50 Cross wash 20 links wide
Co. A. 52° W. ascend

08.70 A yellow pine 16 ins. in diam.

50.00 Set a small stone 20x10x7 ins.
15 ins. in the ground
for ~~Co. A.~~ to ~~S. B. J.~~

19.24. 25 and 30 marked
with 3 notches on S, and
4 notches on A. edges.

from which a yellow pine
9 ins. in diam. tr. A. 50° E.
50 links dist. marked

J. 9 A. R. 24 E. S. 19 B. J.

A yellow pine 7 ins. in diam.

Co. S. 30° E. in 25 links
dist. marked J. 9 A.

R. 24 E. S. 30 B. J.

A yellow pine 5 ins. in
diam. tr. S. 70° W. 34

Range 24 V

Co.

links dist. marked T. 9 A.
R. 20 E. S. 20 W. T.

A yellow pine 7 ins. in
diam. fr. N. 59° W. 51

links dist marked T. 9
A. R. 20 E. S. 24 W. T.

Surface rolling hills

Soil 2nd. rate

Couch and Buffels grass

Denon Pine and Oak timber

North on N. Bound. of Sec. 19
Va. 131 7'E.

Ascend

31.62 Top of spur 55 ft. high fr. N.
41° W and descend

34.69 A yellow pine 14 ins. in diam.

40.00 Set a basalt stone 18x13x9
ins. 12 ins. in the ground
for 44 Sec. Cor. marked
44 on N. face from which

Net Boundary T. 9 N.

No.

a yellow pine 9 ins in diam. tr. S. 50° E. 67 links dist marked 44 S. B. J. ✓

A yellow pine 16 ins in diam tr. S. 47° N. 71 links dist, marked 44 S. B. J.

2.17 A yellow pine 17 ins. in diam.

2.50 Cross creek 17 links wide tr. S. 80° N.

0.00 Set a small stone 24x16x

10 ins. 8 ins. in the ground for. Cor. to lines 10, 18, 19 and 24 marked with 3 notches on S. and E. edge from which a

and raised a mt. of stone alongside pits unproven

pine 9 ins. in diam. tr. S. 57° E. 22 links dist. marked

T. 9 N. R. 24 E. S. 19 S. B. J.

A yellow pine 8 ins. in diam. tr. S. 61° N. 57 links dist.

R. 24 E.

Sh.

marked S. 9 N. R. 20 E.
S. 24 W. S.

A yellow pine 14 ins. in
diam. to S. 29° W. 70

links dist. marked

S. 9 N. R. 20 E. S. 12 W. S.

the other ~~was~~ ~~nothing~~ ~~level~~
Surface rolling hills.

Soil 3rd. rate

Bunch and Buffalo grass

Some pine and Oak timber

North on N. Boundary of Sec. 18
N. 100 E.

Acend.

0.00 Set a bait trap 18 x 7 x 7 ins,
12 ins. in the ground for
14 S. W. marked 44 on
N. face. from which
a yellow pine 30 ins. in
diam. to S. 27° W. 33
links dist. marked 44 S. W. S.

M. Board. J. 9 A. R. 24 E.

Chs.

a Juniper 20 ins. in
diam. trs. S. 68th E.
17 links dist.
marked 4 S. B. J.

48.09 A yellow pine 14 ins. in diam.
58.60 Sage trs. E. and W. 75 ft. high
and decand

80.00 Set a Board street 22x20x7
ins. 16 ins. in the ground
for Cor. to S. 7.12, 13
8.18 marked with 4 notches
on S. and 2 notches on
N. edges. and raised
a mound of stone alongside
Pit impracticable.
from which a white oak
10 ins. in diam. trs. N. 61st E.
95 links dist. marked
J. 9 A. R. 24 E. S. 7 B. J.
A. yellow pine 16
ins. in diam. trs.

West Bound; S. 90. W. 24 E.

do.

S. 34° N. 144 links dist
marked S. 90. W. 20 E,
S. 10 W. E.

A white oak 5 ins. in diam.
to S. 71° N. 58 links dist,
marked S. 90. W. 20 E.

S. 13. W. E.
~~no other trees~~ *Myrica* *serotina* *linearis*
Europea rolling hills.

Soil 3rd. rate
Buffels and Couch grass
Dune Oak and Pine timber

North on N. Bound. of S. 7 ✓
Va. 10° 15' E.

D wood

14.15 A yellow pine 11 ins. in diam.
40.00 Set a basalt stone 16x10x5 ins.
11 ins. in the ground for.
14 S. W. marked 14
on N. face
from which a

Met Boundary J. 9 A.

Cho.

Yellow pine 18 ins. in diam,
 trs. S. 72° E. 20 links dist.
 marked 44 S. C. J.

A yellow pine 16 ins. in
 diam. trs. S. 40° W. 209
 links dist. marked 44 S. C. J.

42.00 A yellow pine 29 ins. in diam.

80.00 At a baratt stone 24x12

x7 ins. 18 ins. in the ground
 for Co. to Sm. 1.6. 7x12
 marked with 5 notches on
 S. and 1 notch on N.

edges, and raised a mound
 of soil along side

Pile unpracticed from which

A yellow pine 35 ins. in
 diam. trs. S. 6° E. 69 links
 dist. marked J. 9 A.

R. 24 E. S. 7 C. J.

A yellow pine 20 ins. in
 diam. trs. S. 39° W. 114

Range 24 E.

Ch.

limbs dist. marked
 T. 9 ft. R. 20 E. S. 12 @ J.

A yellow pine 21 ins. in
 diam. top. H. 24 ft. 70.

limbs dist. marked

T. 9 ft. R. 20 E. S. 1 @ J.

No other trees within limits
 Surfaces rolling hills

Soil 3rd. note

Buffalo and Bush grass

Dwarf pine and oak timber

North on N. Bound. of Sec. 6

70.120 55' E.

Decid

31.00

Cross dry wash 10

limbs with Co. H. wood

40.00

Set a basalt stone 17x16x10

was 12 ins. in the ground

for 14 Sec. Wood marked

114 on N. face

West Boundary T. 9 N.

Sh.

from which a yellow
 pine 16 ins. in
 diam. br. S. 33° E, 65
 links dist. marked
 114 S. B. T.

A yellow pine 20 ins. in
 diam. br. N. 22° W, 44
 links dist. marked
 114 S. B. T.

46.00 Top of spur 60 ft. high
 br. N. 20° W, and down

80.00 Set a wall stone 24x16
 x4 ins. 18 ins. in the
 ground for Cor. to Sp. 9
 and 10 N. Co. 23 and
 24 E. marked with 6 notches
 on each edge and
 raised a mound
 of stone along side.

Old impracticable from which
 a yellow pine 20 ins.

P. 24 E.

do.

in diam. to S. 140 N, 80 links
dist marked T. 9 A. R. 20 E.

S. 1 B. T. a yellow pine
24 in. in diam. to N. 58 N,
175 links dist marked

T. 10 A. R. 20 E. S. 06 B. T.

No other trees within limits

Land rolling

Soil 3rd. rate

Good grass

Dense Pine and Oak timber

Oct. 30" 1882

North Boundary T. 9 N.

Chs

From the Co. to Tps.
9 and 10 N. Rs. 23
and 24 E. just established
by me. I ran East
on a random line
with a var. of 13° E.
setting temporary #4 and
Salt Cove. I at each
40. and 80 Chs. and
at 480 Chs. I intersect
Range line 78 links
S. of the Co. to Tps.
9 and 10 N. Rs.
24 and 25 E. which was
recently established by me
thence I run S. 89°
 $5-4'$ N. on a true
line bet. Nos. 1 and 86
with a variation of 14°
 $30'$ E.

Dward

C. 24 E.

No. 1404

Chs.

- 9.45 Cross wash 25 links wide
Co. N. 9° E. ascend
- 31.16 Top of spur 120 ft.
high. Trs. N. ~~W.~~ S. and descend
- 40.00 Set a small stone 16x10x4
ins. 11 ins. in the ground
for 1/4 S. Co. marked
1/4 on N. face. from which
a yellow pine 26 ins.
in diam. trs. S. 74° ~~E.~~
5-8 links dist. marked 1/4 S.
- B. J. A yellow pine
20 ins. in diam. trs. N.
12° W. 34 links dist.
marked 1/4 S. B. J.
- 52.90 Cross head of wash 20
links wide Co. N. 21° E.
ascend
- 50.00 Set a small stone 17x9x
4 ins. 12 ins. in the
ground for Co. to S. W.

N. Boundary. T. 9 N.

Ches.

1. 2. 35 and 86 marked
with 5 notches on N. and
1 notch on E. edge,
from which a yellow
pine 26 ins. in diam.
brs. N. 47° E. 122 links

dist. marked T. 10 N.
R. 24 E. S. 26 B. T.

a yellow pine 18 ins. in
diam brs. S. 78° E. 30 links

dist. marked T. 9 N.
R. 24 E. S. 1 B. T.

A yellow pine 10 ins.
in diam. brs. S. 57° N. 17
links dist. marked T.

9 N. R. 24 E. S. 2 B. T.

A yellow pine 4 ins
in diam brs. N. 63° N.

25 links dist. marked
T. 10 N. R. 24 E. S. 35 B. T.

Surface rolling hills

Range 24 to E.

do

Soil 2nd rate
good grazing
Dense Pin timber

S 90° 54' N. on a tree
tree set. Sw. 2 and 25

Var. 13° 43' E.

Ascend

2.15 ~~Tree~~ Spar 100 ft. high to. N. + S.
and descend

20.05 Cross head of wash 20
links wide to. N. ascend

40.00 Set a small stone 14 x 10 x 3
ins. 9 ins. in the ground
for 1/4 S.W. Cor. marked
1/4 on N. face, and ~~marked~~
~~marked~~ of a yellow
fence 10 ins. Pin down
from N. 67° N. 25 links
dist. marked 1/4 S. O. T.
A yellow fence 12 ins. in

North Boundary of J.

Chs.

- 70.00 drain. trs. S. 65° N. 20
links dist. marked 14 S. B. J.
- 80.00 Top of spur trs. N. and
S. 180 ft. high and descend
Set a basalt stone 16x12x9
ins. 11 ins. in the ground
for Cor. to S. 33, 34 & 35
marked with 4 notches on N.
and 2 notches on E. edge,
from which a yellow
pine 16 ins. in diam. trs.
N. 54° E. 53 links dist.
marked J. 10 N. B.
24 E. S. 35 B. J.
- A yellow pine 17 ins. in diam.
trs. S. 60° E. 103 links dist.
marked J. 9 N. B.
24 E. S. 9 B. J.
- A yellow pine 18 ins. in
diam trs. S. 51° N. 56
links dist. marked J. 9 N.

9 A. Q. 24 E.

Ch.

A. 24 E. S. 3 Q. J.

A yellow pine tree in diam. hrs.

St. 370 ft. 66 links dist.

marked C. 10 A. Q. 24 E. S. 34 Q. J.

Surface rolling hills

Set 2nd. note

Good grazing

Dense Pine and Timber

S. $89^{\circ} 54'$ N. on a true
line on the N. Bound. of Sec. 3
Va. 14° E.

Found

24.53 Cross mark 22 links wide lbs.

A. 15° N. and record

40.00 Set a limestone $16 \times 10 \times 5$ in.

11 in. in the ground for

114 in. lbs. marked 114

on A. face, from

which a yellow pine

24 in. in diam. hrs.

N. B. J. 9 N. A. 24 E.

Chs.

North 50 links dist.
marked "4 S. B. J."
a yellow pine 28 ins
in diam. brs. S. 81° N. 75
links dist. marked "4 S. B. J."

48.86

Cross wash - 25 links wide
br. N. 24° W

67.50

Cross wash 27 links wide
br. N. 24° W

72.00

Down timber

80.00

Set a small stone 2 1/2 x 14 x 6
ins. 15 ins. in the ground
for br. to Secs. 34, 33 and
34 marked with 3 notches on
E. and W. edges, and
raised a windward of stone
along side. Pit impracticable

Road rolling
Soil 2nd. rate
72 Chs. Down Pine Timber

1. @ J. 9 A. P. 24 E.

S. 89° 54' N. on a true line
but the S. Bound. of Sec. 4
Var. 130 00' E.

16 Top of spur 60 ft. high
brs. S. 14° N. and down

200 Set a limestone 15x14x4
ins, 12 ins. in the ground
for 44 Sec. 1 br. marked 114
on N. face, and raised a
mound of stones along side.

169 Cross creek 44 links
wide br. S. 12° N. and

200 Set a small stone 17x11x
4 ins, 12 ins. in the ground
for br. to Sec. 4. 5. 32
and 33 marked with - 2
notches on N. and 4 notches
on E. edges, and
raised a mound of
stones along side

N. B. J. 9 N. R. 24 E.

Dir. unfractured

Land rolling

Soil V. red. rate

Some grass

S 89° 54' N. on true line
 for the ~~of~~ Bound. of Sec. 5
 No. 10° E.

Low rolling land

5.00 Enter timber

0.00 Set a basalt stone 250x

9x4 ins. 15 ins. in the
 ground for 14 Sec. 10.
 marked 14 on N. face
 from which a yellow
 pine 24 ins. in diam.
 brs. N. 35° E. 50 links
 dist. marked 14 S. & T.

A yellow pine 20 ins. in
 diam. brs. S. 30° N. 58
 links dist. marked 14 S. & T.

S. 90. R. 24 E.

BOOK 1404

lbs.

25- Cross wash 25 links wide
Co. N. 10° W. around

800 Top of Butte 400 ft. high
and around

900 Set a basalt stone 17x8x8
ins. 12 ins. in the ground
for N. to S. 56. 81

and 82 marked with
1 notch on N. and

5 notches on E. edge. ✓
and raised a mound
of stone along side.

Wib. unpracticable from
which a Juniper 24
ins. in diam. br. S 90 E.
36 links dist. marked

S. 90. R. 24 E. S. 56. S.

A Juniper 28 ins. in diam.
br. S. 88° W. 47 links
dist. marked S. 90.

R. 24 E. S. 6 B. S.

North Boundary

Chs.

A yellow pine 14 ins
in diam. br. N. 51° W.
35 links dist. marked
S. 10 E. R. 24 E. S. 31 W. S.
No other trees or other
Land rolling soil 2nd. rate
Pine spruce and Juniper timber

S. $89^{\circ} 54'$ W. near the line
of the N. Bound. of Sec. 6
No. 130 E.

4000 Set a small stone
16 x 10 x 4 ins. 11 ins. in the
ground for 14 Sec. 601.

marked 14 on N. face
from which a yellow
pine 28 ins. in diam
br. N. 40° E. 27 links
dist. marked 14 S. B. S.

A yellow pine 20 ins. in diam.
br. S. 58° E. 71 links
dist. marked 14 S. B. S.

60.76 Cross wash 30 links wide
 to. $N. 70^{\circ} W.$ thence over valley ground
 50.00 The Cor. to Sp. 9 and 10 Cr.
 Ro. 28 and 24 E.

Surface rolling

Soil 3rd. rate

Good grazing

Dwarf pine and spruce
 timber some juniper

I carefully examined the
 adjustments of my Solar
 compass to-day particularly
 the latitude and reversing
 apparatus and found them correct.

Oct. 20 1852

Exterior T. 12 N. R. 23. E.

chs West. Boundary.

From the cor to Tfs 11 and 12
N. Rs 22nd 23 E. previously
described by me. I run
N. on N. Boundary see 31.

To 12. 00' E.

Ascend gradually

40.00 Set a Basalt stone, 16 x 9 x 7 ins., 11 ins.
in the ground for $\frac{1}{2}$ Sec, Cor, marked $\frac{1}{2}$ on N.
face, dug pits 18 x 18 x 12 ins. N and 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.

50.00 Set a Basalt stone 20 x 10 x 6 ins, 15 ins. in
the ground for Cor, to Secs, 25. 20. 31^{and 36} marked
with 1 notch on S. and 5 notches on N. edges,
dug pits 18 x 18 x 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 Roding

Soil. 3rd rate

Trees. Scattering Juniper

Exteriors T. 12 N. R. 23 E

chs West Boundary.

Vegetation Good. Bunch-grass.

North on N Bdry see 20
Va 13.00' E.

Ascend gradually

30.00 Top of ridge 300 ft high brs E and W
and descend.40.00 Set a Blue Limestone 20+12+
9 ins. 18 ins in the ground for
1/4 sec cor marked 1/4 on
N. face. and raised a mound
of stone alongside, its impracticable80.00 Set a post 4 ft. long 4 ins. square, with marked
stone, 12 ins. in the ground for Cor, to Secs,
19.24.25²⁴ and 30 marked T. 12 N. S. 19 on
N. E. R. 23 E. S. 30 on S. E. R. 22^E S. 25 on
S. W. and S. 24 on N. W. face, with 2 notch
es on S, and 4 notch es on E. 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. around post.

Enterors T. 12 N. R. 23 E.

the West Boundary

Land Rolling.
Soil; 2nd rate.
Timber. Scattering juniper
Pine ^{and} fir
Vegetation. Good Bush-grass

North on N. Bdry see 19.
to 13° 15' E.

Descend.

2.00 Cross Draw 14 lks wide. Co

N. 34° W. and ascend.

13.00 Top of Spur 60 ft. high Co
N and descend

32.86 Cross Dry wash 18 lks wide
Co W. and ascend

40.00 Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins, in the ground for $\frac{1}{4}$ See Cor
marked $\frac{1}{4}$ S. on W face, dug hole 18 x 18 x 12
ins. N and S of post 5 $\frac{1}{2}$ ft. dist. and raise
a mound of earth 1 $\frac{1}{2}$ ft. high. 3 $\frac{1}{2}$ ft. base. around
post

39

Exteriors T. 12 N. R. 23 E

ch West Boundary.

80.00 Set at Sandstone 30 + 20 + 4 in
 22 in in the ground for the cor
 to see's 13. 18. 19 and 24. marked
 with 3 notches on N. and S. edges
 and raised a mound of stone
 along side E. from which

A Juniper 10 in diam base S 72 N.
 27 lbs dist. Marked. T. 12 N. R. 22
 E. S. 24 B. T.

A Juniper 10 in diam base S 22
 E. 11 lbs dist. Marked. T. 12 N. R. 23 E.

S. 19 B. T.

No other trees within limits
 Land. Rolling.

Soil; 3rd rate

Timber. Scattering Juniper.

North on N. B. by see 18

at 13:00 C

Ascend

Exteriors T. 12 N. R. 23 E.

ch's West Boundary

- 30.00 Top of Spur 88 ft high brs W
and descend.
- 36.00 Cross Long wash 15 lbs mid $\frac{1}{2}$ Co
S. W ^{and} ascend.
- 40.00 Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins. in the ground for $\frac{1}{4}$ Sec, Cor,
marked $\frac{1}{4}$ S. on W face, dug pits 18 x 18 x 12
ins. N. and S 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. from which
A Jumper 12 ins diam bears N.
75° E. 65-lbs dist. Marked. $\frac{1}{4}$ S.B.S.
No other trees within ^{cell}
80.00 Set a Sandstone 48+12+10 ins
36 ins in the ground for the cor
to see 7.12.13 ^{and} 18. marked with
4 notches on S. and 2 notches on
N. edges. ^{and} raised a mound of
stone. alongside ^{Pls impracticable} from which
A Sandstone 18+12+4 ft. brs S.
50° W. 20 lbs dist.
Land. Rough ^{and} Rocky.

41

Exterior T. 12 N. R. 23 E.

ch^s West Boundary

Soil. 8th soil
 Timber Scattering Juniper.

North on W Bdy see 7.

Va 13° 15' E.

Descend

40.00

Set a Sand stone, 24 x 10 x 6 ins., 18 ins.
 in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
 face, dug pits 18 x 18 x 12 ins. N and 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.

from which
 A Pinon Pine. 9 ins diam bears S. 72 W.

14 lbs diet. Marked $\frac{1}{4}$ S. B. E.~~no other very melting units~~

Cross mark 21 lbs side to N. 25° E

and ascend

70.15

80.00

Set a Sandstone 19 x 12 x 6 ins 12 ins
 in the the ground for the cor &
 see's 1. 6. 7 and 12. marked with 6 notches
 on S. and 1 notch on N. edge.

Estimons T. 12 N. R. 2 & E.

ch's West Boundary.

and raised a mound of stone
alongside. Pits impracticable
Land Rough and Rocks.

Soil; 8th soil.

Timber. Thick. Bunches of juniper

North on N B In see 6.
to 18° E.

Ascend.

15:00 Top of spur brs N. 19° E and descend

39:12 cross wash. 15 lbs side co N. 7° E
and ascend.

40:00 Set a. Sand stone 18x12x4 ins, 12 ins. in ✓
the ground for 1/4 Secs, cor, marked
1/4 on N. face, dug pits 18x18x12
ins. N. and S. of stone, 5 1/2 ft. dist
and raised a mound of earth
1 1/2 ft. high 3 1/2 ft. base along side -
from which

Exteriors T. 12 N. R. 23 E.

Ch's West Boundary.

A Juniper 10 ins diam bears N. 76° E
18 lks dist. Marked 14 S. B. T.

A Pinon pine same diam bears S 19° W.
68 lks dist - Marked 14 S. B. T.

55:46 Intersect ~~3rd~~ Standard Parallel
North 1.26. East of Standard cor
to Tps 13. N. Rs 22 ^{and} 23 E. re-established
re-established by me.

Set a Sandstone. 17+10+4 ins. 12 ins
in the ground for closing cor.
T. Tps 12 N. Rs 22 ^{and} 23 E.

marked. G. C. with 6 notches on
S. E ^{and} W. edges. ^{and} raised a
mound stone alongside.

Pl's impracticable.

Land. Rough ^{and} rocky

Soil, 3rd rate.

Timber Some Juniper.

Nov 1st 1880.

Exteriors T. 15 N. R. 28 East.

chs West. Boundary.

From the cor to Tps 14^{and} 15^{and}
N. R. 27^{and} 28^{and} E. recently
re-established by me. I run
North on a random line but
the said Tps the variation of
my compass being $14^{\circ}18' E$.
I set temporary half-mile
and mile corners to at each
40^{and} 80 chains, and find
the range line to be 479.69
chs long and the falling of
same to W. 52 lks West of the
corner to Tps 15^{and} 16 N. R. 27^{and}
28^{and} E. The correction for
the true line, will therefore be
31 lks South, and $8\frac{3}{8}$ lks E per
mile and its course will
be $S 0^{\circ} 4' N$. From the cor to Tps 15^{and} 16

N. R. 27^{and} 28 E. which is a Sandstone 12.46 in firmly
set in the ground, and properly notched

Exterior T. 15 N. R. 28 E

ch West Boundary,

with pits dug E. W. 46 x 8 ft of stone. length in
on line. 6 ft. dist. and mound of earth
raised alongside. Lower.

S. 0° 4' N. on a true line to see 1st 6.

Pa. 14: 30' E

Ascend gradually.

27.00

Top of Ridge. Cross E + W
150 ft high & descend

39.69

Set a Sand stone, 16 x 10 x 6 ins., 11 ins.
in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N
face, dug pits 18 x 18 x 12 ins. N and 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.

59.00

Low rough & broken hills
& descend gradually.

79.69

Set a ^{Paleo} Petrified ~~wood~~ stone 16 x 8 x 8 ins., 10 ins. in
the ground for Cor, to Secs, 1, 6, 7^{and} 12 marked
with 5 notches on S. and 1 notch on N edges,
dug pits 18 x 18 x 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.

Low Rolling; broken hills

Exteriors T 15-41. R 28 E

dis

West Boundary.

Soil 3rd rate foot grazing

S 0° 04' W on a true line bet
secs 7 and 12

ca. 14° 13' E

Descend gradually,

30.90

Dry wash to S 50° E.

4 lbs. misc. and ascend gradually.

40.00

Set a Sand stone, 14 x 12 x 6 ins., 9 ins.
in the ground for $\frac{1}{2}$ Sec, Cor, marked $\frac{1}{2}$. on W
face, dug pits 18 x 18 x 12 ins. N and 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.

80.00

Set a Sand stone 11 x 10 x 6 ins., 7 ins. in
the ground for Cor, to Secs, 7-12-13^Q marked
with 4 notches on S. and 2 notches on N edges,
dug pits 18 x 18 x 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.

Exterior S. 15 N. R. 28 E

cks West Boundary

Lays Rolling
Soil. 2nd rate
Good Grazing

S 0° 09' N on a true line bet-
sees 13^{and} 18

to 14° 13' E

Ascend Gradually.

40.00 Set a Sand stone, 15' x 12 x 5 ins., 10 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. N and 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.

80.00 Set a Sand stone 14 x 8 x 6 ins, 9 ins. in
the ground for Cor, to Secs, 13-18. 19² marked
with 3 notches on S. and 3 notches on W edges,
dug pits 18 x 18 x 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.

Esteroos, T. 13. N. R. 28 E.

West Boundary.

Level Rolling
Soil - 2nd rate
Good Grazing.

So: 4' Wona true line
bet sees 19th & 24
to 14:13' E

Ascend gradually.

19.00

Top of Ridge bears E & N.
40 ft high & descend.

40.00

Set a post 3 ft. long 3 ins. diam 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 x 18 x 12
ins. N and S 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.

80.00

Set a Sand' stone $15 \times 11 \times 7$ ins, 10 ins. in
the ground for Cor, to Secs, 19 24 25 ²⁶ marked
with 2 notch on S. and 4 notch on N. edges,
dug pits 18 x 18 x 12 ins. in each Sec., $5\frac{1}{2}$ ft.
dist. and raised a mound of earth 2 ft. high.

Section: T15-N-R-28 &
ch West Boundary

4½ ft. base. alongside.

Good Rolling

Soil. 2nd soil.

Undergrowth sage brush

Good grazing

S. 04' W on a tree line set
see 25th 30

to 14° 13' E

Descend gradually.

40.00

Set a Sand stone, 14 x 12 x 4 ins., 9 ins.
in the ground for ¼ Sec, Cor, marked ¼. on W
face, dug pits 18 x 18 x 12 ins. N and S
of stone 5½ ft. dist. and raised a mound of earth
1½ ft. high. 3½ ft. base. alongside.

80.00

Set a Sand stone 5 x 10 x 4 ins., 10 ins. in
the ground for Cor, to Secs, 25th 30th and 30th marked
with a notch on S. and 5 notches on N edges,
dug pits 18 x 18 x 12 ins. in each Sec., 5½ ft.
dist. and raised a mound of earth 2 ft. high.

Interiors T15 N. R 28 E.
chs West Boundary.

4½ ft. base. alongside.

Sand Rolling

Soil. 2nd rate

Undergrowth sage brush

Good grazing

S^o. 04' Wona tree line
bet sees 31^{and} 36

In 14° 13' E.

Desert grasslands.

40.00 Set a sand stone, 16 x 8 x 5 ins. 11 ins.
in the ground for ¼ Sec, Cor, marked ¼. on W
face, dug pits 18 x 18 x 12 ins. A and B
of stone 5½ ft. dist. and raised a mound of earth
1½ ft. high. 3½ ft. base. alongside.

80.00 To the cor to Tps 14^{and} 15 N
R 27^{and} 28 E.

Sand. Rolling.

Soil. 2nd rate. good. grazing.
Nov. 14th 1882.

Extensive T. S. R. 27 C
ch North Boundary

7189.49 Now a true line
on N. B. in see 2
to 14:14' E

Described

- 40.00 Set a post 3 ft. long 3 ins. diam 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 x 18 x 12 ins. E and 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.
- 49.10 Cross mark 4 lks wide Sec. S. and asced
- 80.00 Set a Sand stone $1\frac{1}{2} \times 16 \times 10$ ins, 12 ins. in the ground for Cor, to Secs, 2-3-34 and 35 marked with 2 notches on E. and 4 notch on W edges, dug pits 18 x 18 x 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 Rolling and Mountainous
Soil 2nd rate. good grazing

Exterior T 15 N. R. 27 E
 chis North Boundary.

N 89° 49' W on a true line
 on N. B. by see 3
 Ia 14° 14' E

Ascend.

- 40.00 Set a post 3 ft. long 3 ins. diam 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 x 18 x 12 ins. S and 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.
- 48.00 Enter fence timber here N.E. and S.W.
- 69.00 Top of ridge here N 60° W. and S 60° E. 60 ft. high and descend.
- 80.00 Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins, in the ground for Cor, to Secs, 3.4 33 and 34 marked T. 16 N S. 3 4 on N. E. R. 27 E S. 3 on S. E, T, 15 N 3 on S, W, and S, 3 3 on N, W, face, with 3 notch es on W and 3 notch es on E. edges, dug pits 18 x 18 x 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. around post

Extensions T15 N. R. 27 E
chs North Boundary

from which
A Cedar 14 in diam bears N50°W.
75 lks dist. Marked T16 N. R.
27 E. S. 33 B. T.

A Cedar 16 in diam bears
S80°E. 103 lks dist. Marked
T15 N. R. 27 E. S. 8 B. T.

No other trees in limits.
Sloped rolling hill
Soil, 3rd rate.
Timber - Decid. scrub. Cedar.

N89:49'W on a true line on
N B'd'g see 4.

to 14:14'E

Descend gradually

40.00 Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins, in the ground for 1/4 Sec, Cor,
marked 1/4 S. on N face, dug pits 18 x 18 x 12
ins. 8 and W of post 5 1/2 ft. dist. and raised

Interiors T. 15 N. R. 27 E.
do North Boundary.

a mound of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base. around
post. No trees in limits.

20.00 Set a post $4\frac{1}{2}$ ft. long 4 ins. square, with marked
stone, ~~42~~²⁴ ins. in the ground for Cor, to Secs,
45.32 and 33 marked T. 16 N. S. 33 on
N. E. R. 27 E S. 4 on S. E, T. 15 N. S. on
S, W, and S, 32 on N, W, face, with 2 notch
es on W and 4 notch es on E. edges, dug
~~pits 18 x 18 x 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. around post. from which

A Cedar 24 ins diam bears $75^{\circ}18'$
108 lbs dist. Marked T. 16 N. R. 27 E
S. 33 B. T.

A Cedar 30 ins diam bears S. $45^{\circ}14'$
146 lbs dist marked T. 15 N. R. 27 E
S. 4 B. T.

A Cedar 16 ins diam. bears S. $26^{\circ}11'$
9.11 lbs dist. Marked T. 15 N. R. 27 E
S. 5 B. T.

A Cedar 20 ins diam bears $71^{\circ}16'$

Extensions T 15 N. R. 27 E
 chs North Boundary,

87 chs dist. Marked S. 16 N.
 R. 27 E. S. 32 B. T.

Says. Rolling

Soil, ∞ Tale: good grazing
 Timber, Dense Cedar

N. 89.49' W on a true line on
 N. B. by sec. 5.

to 14:14' E

Ascend through timber

40 00 Set a post 3 ft. long 3 ins. diam 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 x 18 x 12
 ins. E and 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.

47 50 Top of Ridge bears N ^{and} S. 20 ft high
 and descend.

75; 70 Cross Depression bears N 10' W
 S 10' E. and ascend.

Exterior S. 15' N. R. 27 E

chs North Boundary,

80.00

Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins, in the ground for Cor, to Secs, 5. 6. 31 ⁴ 32 marked T. 16 N S. 32 on N. E. R. 27 E S. 31 on S. E, **T** 15 ¹/₂ on S, W, and S, 31 on N, W, face, with / notch on W and 5 notch es on E. 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. around post.

Land, Rolling
Soil, 3rd soil
Timber, 10 acres bedan.

N. 89° 49' W on A true line
on N. Boundary. see 6.

to 141° 14' E

40.00

Assaid gradually, & built south to
Set a post 3 ft. long 3 ins. diam with marked stone, 12 ins, in the ground for ¹/₄ Sec, Cor, marked ¹/₄ S. on N face, dug pits 18 x 18 x 12 ins. E and W. of post 5 ¹/₂ ft. dist. and raised

Station T. 5 N. R. 27 E
North Boundary.

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

78.55 T. cor to Tps 15^{mo} 1671. R's
26^{mo} 27 E from which I started
Says. Allung.
Soil, 2nd rate
Timber. Scattering cedar.
November, 14th 1882

FOR FINAL CATHS
SEE BOOK NO. 18.

U. S. Surveyor General's Office,

Tucson, Arizona, November 10, 1883

The foregoing Field Notes of the Survey of the

Artesian Lines of
 Tps. 9 - N. R. 24 & 25 East,
 Tps. 12 N. R. 23 East
 Tps. 15 N. R. 27 & 28 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-
 ted by *A. P. Johnson*

Deputy Surveyor, under his contract of the *17th*

day of *July*, 188*2*, having been

critically examined and the necessary corrections and explana-
 tions made, the said Field Notes and the surveys they describe

are hereby approved

J. W. Robinson
 Surveyor General.