

No. 1396

BOOK 1396

FIELD-NOTES

of Boundary bet. Ariz. and New Mexico, and

as portion of

The Interior Lines of
Township 16 N., Range 31 East,
Township 8 N., Range 30 East, and
Township 20 North
Range 9 East,

G. and S. R. Meridian, Arizona

BY

BOOK 1396

A. E. Shoemaker, Deputy Surveyor,

under his contract of August 5th 1882.

Survey commenced July 14th 1883.

Survey completed October 8th 1883.

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- Arizona + New Mexico	1
West Bdy. T 8 N, R 30 E	8
South " T 8 N R 30 E	15
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West " T 20 N R 9 E	32

For survey W Bdy. T20N, R9E,
see T's 10 to 20N, R's 10 to 20E.

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18	17 ^T 18 ^R 19 ^M	15	14	13	12	18	17 ^T 18 ^R 19 ^M	15	14	13	12	18	17 ^T 18 ^R 19 ^M	15	14	13	12
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For preliminary oaths and
description of instrument
see book No. 1.

Boundary Line between Arizona & New Mexico.

Chains.

From the closing cor. to Tps. 15th
 16th N., R. 31 E., which is a post set
 firmly in the ground, marked
 S. C. R. 31 E. on N.; N. 16th S. 34 on N.
 2nd N. 15th S. 3 on S. faces, with 6 notches on
 N., S. & W. faces, with pits N., S. & W.
 of post, 6 ft. dia., and a mound of
 earth, in good order around post, I run
 North on a random line, along Boundary,
 Wa. 14° 40' East.

Descend.

- 26.00 Cross Wash, 5 lks. wide, course
 N. E. and ascend.
- 60.00 To a point 6 lks. West of the
 15th Mile Cor., which I find in
 very poor condition. To
 reestablish same, I set a post,
 4 ft. long, 4 ins. square, with
 marked stone, 12 ins. in the
 ground, marked
 155 on N.; N. W. on E.; 32° W. L. on

Boundary Line, between Arizona and New Mexico

S. and Ariz. on W. faces, dug pits
 18 x 18 x 12 ins on line, N. and S. of
 post and raised a mound of
 earth, 2 ft. high, 4 1/2 ft. base
 around post.

The return course is therefore S. 35° W
 Sand broken.

Soil 3rd rate.

Timber of Pine and Cedar.

Vegetation, bunch grass.

North on a random line, along boundary.

Var 14° 40' East.

Descend gradually.

- 78.20 To a point 66 lks West of old
 Mile Cor. No. 154, which I find
 nearly destroyed. To reestablish
 same, I set a post 4 ft. long, 4 ins.
 square with marked stone 12 ins.
 in the ground for 154th Mile Cor.,
 marked 154 on N.; N. W. on E.

Boundary line between Arizona and New Mexico.

Chains.

32° W. L. on S. and Ariz. on W. faces,
 dug pits 18 x 18 x 12 ins. on line, N.
 and S. of post and raised a mound
 of earth, 2 ft. high, 4 1/2 ft. base
 around post. Return course S. 28° W.
 Land broken.

Soil 3rd rate.

Timber of Pine and Cedar.

Vegetation, bunchgrass.

North on a random line along boundary,
 Va. 14° 40' East.

Descend gradually.

79.57 To a point 104 lks. West of the
 153rd Mile Cor, which I find nearly
 destroyed. To retrace same, I set
 a post, 4 ft. long, 4 ins. square, with
 marked stone, 12 ins. in the ground
 marked 153 on N.; N. W. on E.; 32° W. L.
 on S. and Ariz. on W. faces, dug pits
 18 x 18 x 12 ins. N. and S. of post, on line.

Boundary Line between Arizona and New Mexico

Chavis.

5¹/₂ ft. dist., and raised a mound of earth, 2 ft. high, 4¹/₂ ft. base around post, Return Course S. 43' W. Sand broken.

Sail 3rd rate.

Vegetation, bunchgrass.

North was a random line along boundary, W. 14° 40' East.

Descend gradually.

29.71 A house brass W., S. 20 chs. dist.

32.31 Cross Wash, 3 lks. wide, course E. and ascend.

47.31 Top of Spur brass E. and W. and descend

80.82 To a point 60 lks. West of the 152nd Mile Cor., which I find nearly destroyed. To reestablish same, set a post, 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for 152nd Mile Cor., marked 152 on N. N. W. on E.; 32° W. S. on S. and Ariz. on W.

Boundary line between Arizona and New Mexico

Claims.

poles, dug pits $18 \times 18 \times 12$ ins. on line,
N. and S. of post, $5\frac{1}{2}$ ft. dist., and raised
a mound of earth, 2 ft. high $4\frac{1}{2}$ ft.
base around post.

The return course is then for S. 26° W.
Land mountainous.

Soil 3rd rate.

Vegetation, bunchgrass.

North on a random line along boundary.

Var. $14^{\circ} 40'$ East

Descend gradually.

49.00 Cross Wash, 10 lks. wide, course N. 20° E. 5 ascend.

79.81 To a point 110 lks. ^W of the 151st Mile
Cor. which I find in a very
disapidated condition. To rebuild
same, I set a sandstone
 $22 \times 12 \times 6$ ins., 16 ins. in the ground
marked 151 on N.; N. N. on E.
32° W. L. on W. and Ariz. on W.
faces, and raised a mound

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Retracing Boundary Line between Arizona & New Mex.

Chavis.

of stone along side. Pits
infracti^ones.

Land rolling.

Soil 3rd rate.

Vegetation, bunch grass.

Boundary line between Arizona and New Mexico.

Chavis.

North on a random line along boundary,
 Val. $14^{\circ}40'$ East.

Descend

23.40 To a point 18 lks. W. of sea
 closing Cor to Sps. 16th and 17th N., R.
 S1 E. on 4th Standard Line North,
 which is a lava stone set
 firmly in the ground marked
 S. C. C. with 6 notches on N., S. & W
 edges, with pits N., S. and W. of
 stone, 6 ft. dist, and ~~marked~~ an
 earth mound, in good order
 alongside.

The return course is therefore S19'W.
 Land mountains.

Soil 3rd rate.

Vegetation, bunchgrass.

I carefully examined the adjustments
 of my Solar Compass today,
 particularly the latitude ^{and} moving
 apparatus and found them correct.

July 14th 1883.

W. boundary T. 8 N., R. 30 E., S. 1st & S. R. M.

Chassis.

From the cor. to Tpo, 7th & 8 N.,
R. 29th & 30 E., which is a sand-
stone, set firmly in the ground,
marked with 6 notches on each
edge, with a stone mound in
good order alongside;

from which pass:

A yellow Pine, 18 ins. dia., N. 9° W., 70 lks. dist.,
marked T. 8 N., R. 29 E., S. 36 B. V.

An Oak, 15 ins. dia., N. 15° E., 70 lks. dist.,
marked T. 8 N., R. 30 E., S. 31 B. V.

Trun

North on a random line, bet. secs. 31st & 36.

Was, 14° 21' East.

Over rolling land.

40.00 To old 14 sec. cor., which is a
sandstone, set firmly in the ground,
marked 14 on W. face, with a stone
mound, in good order, alongside.

62.00 Cross road, bears N. W. 1/4 N. E.

80.00 To a point 36 lks. E. of old cor. to

W. boundary V. 8 N., R. 30 E., G. & S. R. 4

Chains.

secs. 25, 30, 31^{and} 36, which is a sandstone, set firmly in the ground, marked with 1 notch on S. and 5 notches on N. edges, with a stone mound, in good order, along side.

The return course is then for S. 29 E.

Land rolling.

Soil 3rd rate.

Timbers of Pine

Vegetation of Bunchgrass.

North on a random line, bet. secs. 25^{and} 30.

W. 14° 18' East.

Ascend.

25.30 Cross road, bears N. E. ^{and} S. W.

40.00 To old 1/4 sec. cor., which is a sandstone, set firmly in the ground, marked 14 on W. face, with a stone mound, in good order along side, on top of Ridge, bears E. ^{and} W. ^{and} descend.

W. boundary T. 8 N., R. 30 E., G. 9 W. S. R. W.

Chain

80.00 To old cor. to secs. 19, 24, 25th & 30,
which is a sandstone, set
firmly in the ground, marked
with 2 notches on S. ⁹/₄ & 4 notches
on N. edges, with a stone mound,
in good order alongside.

Land mountainous.

Soil 3rd rate.

Timber of Pine.

Vegetation, bunchgrass.

North and random line, bet. secs. 19th & 24,

Var. $14^{\circ}18'$ East.

Descend.

40.20 To a point 21 lks. East of old
14 sec. cor., which is a sandstone,
set firmly in the ground, marked
1/4 on W. face, with a stone
mound in good order alongside.

The return course, is then for S. 18 E.

80.30 To a point 36 lks. East of old

W. boundary T. 8 N., R. 30 E., G. & S. R. M.

Chains.

cor. to secs. 13, 18, 19 ^{and} 24, which is a sandstone, set firmly in the ground, unmarked with 3 notches on N. and S. edges, with a stone mound, in good order alongside.

The return course is therefore S. 31 E.

Land rolling.

Soil 3rd rate.

Timber of Pine ^{and} Cedar.

Vegetation, bunchgrass.

North on a random line, bet. secs. 18 ^{and} 18.

Sta. 14018 'East.

Descend.

24.39 Cross road, bears N. 50° W. ^{and} S. 50° E.

40.30 To a point 12 lks. East of sec. 14 sec. cor., which is a post set firmly in the ground, marked '45. on W. face, with pits N. and S., 5 ft. dist, and a mound of earth, in some order around post.

W. boundary T. 8 N., R. 30 E., S. 7 and S. R. W.

Chanis,

The return course is therefore S. 10° E.

80.60 To a point 25 lks. East of old cor. to secs. 7, 12, 13 and 18, which is a sandstone, set firmly in the ground, marked with 4 notches on S. and 2 notches on N. edges, with a stone mound, in good order, alongside; from which bears a Nut Pine, 18 in. dia, N. 7 1/4° E., 37 lks. dist, marked T. 8 N., R. 30 E., S. 7 P. V.

The return course is therefore S. 21° E.

Land rolling.

Soil 3rd rate.

Timber of Pine.

Vegetation, bunchgrass.

North on a random line, bet. secs. 7 and 12.

W. 14° 18' East.

Descend.

40.12 To a point 90 lks. East of sec 14 sec. cor., which is a sandstone,

N. boundary T. 8 N., R. 30 E., G. & S. R. M.

Cham's.

set firmly in the ground, marked
1/4 on W. face, with a stone
mound, in good order, along side.
The return course is therefore S. 1° 17' E.

80.24 To a point 1.00 ch. E. of old cor. to
secs. 1, 6, 7 and 12, which is a
sandstone, set firmly in the ground,
marked with 5 notches on S. face
1 notch on N. face, with a stone
mound, in good order, along side.
The return course is therefore S. 1° 26' E.

Land rolling.
Soil 3rd rate.

Timber of Pine.
Vegetation, bunchgrass.

North on a random line, bet. secs. 1 & 6.
W. 14° 18' East.

Descend.

40.00 To old 1/4 sec. cor, which is a
sandstone, set firmly in the ground,

W. boundary T. & N., R. 30 E., G. and S. R. M.

Thesis

marked 1/4 on W. face, with 2 stone
mounds, in good order, alongside.

81.24 To a point 47 lks. East of old
Closing Cor. to Tps. 8 N., R.
29^{and} 30 E., which is a
sandstone, set firmly in the
ground, marked C.C. with 6
notches on S., E. and W. edges and
a mound of stone, in good
order along side.

The return course is therefore S. 40° E.

Same rolling.

Soil 3rd rate.

Timber of Pine.

Vegetation, bunchgrass.

I carefully examined the adjustments
of my Solar compass today,
particularly the latitude and
sighting apparatus and found
them correct.

September 13th 1883.

S. boundary T. 8 N., R. 30 E., S. 4 S. R. W.

Chassis.

80.00 To a point 60 lks. North of sec
cor. to secs. 4, 5, 32 and 33, which
is a sandstone, set firmly in the
ground, marked with 2 notches
on W. and 4 notches on E. edges,
with a stone mound, in good
order, along side.

The return course is therefore N. 89° 09' W.

Land rolling

Soil 3rd rate.

Vegetation, bunchgrass.

East on a random line, between secs. 4 and 33.

Var. 14° 18' East

Descend.

23.00 Lower Holbrook Creek, 12 lks. wide,
crossed N. and ascend.

40.00 To sec 14 sec. cor, which is a
sandstone, set firmly in the ground,
marked 14 on N. face, with a stone
mound, in good order, along side;

Chains

from which bears:

A Cedar, 20 ins. dia, N, 221 lks. dist,
marked '14 S. B. V.

80.00 Found no trace of old cor. to sec.
3, 4, 33rd and 34. Set temporary cor.
and continue E. on a random line.
Var. $14^{\circ}18'$ East.

40.00 Found no trace of old '14 sec. cor.
Set temporary '14 sec. cor.

80.00 Found no trace of old cor. to sec.
2, 3, 34th and 35. Set temporary cor.,
and continue East on a random line.
Var $14^{\circ}18'$ East.

40.00 Found no trace of old '14 sec. cor.
Set temporary '14 sec. cor.

80.00 Found no trace of old cor. to sec.
1, 2, 35th and 36. Set temporary cor.,
and continue East on a random line.
Var. $14^{\circ}18'$ East.

40.00 Found no trace of old '14 sec. cor.
Set temporary '14 sec. cor.

S. boundary T. 8 N., R. 30 E., G. & S. R. M.

Chains.

- 80.00 To a point 58 lks. North of old cor. to Tps. 7th and 8th N., R. 30th and 31st E., which is a sandstone, set firmly in the ground, marked with 6 notches on each edge, with a stone mound, in good order along side; Hence I run N. 89° 53' W. on a true line, bet. secs. 1st and 36, W. 14° 21' East.
- 40.00 Set a sandstone, 15 x 15 x 6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 7/4 on N. face and raised a mound of stone along side. Pits impracticable.
- 80.00 Set a post, 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for cor. to secs. 1, 2, 35th and 36, marked T. 8 N., S. 36 on N.E. R. 30 E., S. 1 on S.E. T. 7 N., S. 2 on S.W. and S. 35 on N.W. faces, with 1 notch

S. boundary T. 8 N., R. 30 E., S. 1/4, 15. R. 15.

Chains

on E. ^{1/4} at 5 notches on W. 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, around pit.

Land rolling.

Soil 3rd rate.

Timber of Pine and Cedar.

Vegetation, bunchgrass.

N 89° 53' W. on a true line, bet. secs. 2nd & 3rd.

W. 14° 18' East.

40.00 Set a sandstone, 18x15x9 ins.,
 12 ins. in the ground, for ^{1/4} sec.
 cor., marked ^{1/4} on N. face and
 raised a mound of stone
 alongside. Pits impracticable.

80.00 Set a sandstone, 15x12x2 ins., 12 ins.
 in the ground, for cor. to sec.
 2, 3, 3rd & 35, marked with
 2 notches on E. ^{1/4} and 4 notches on

S. boundary T. 8 N., R. 30 E., G. S. R. M.

Chains

W. edges and raised a mound of stone alongside. Pits impracticable;

from which bars:

a Nut Pine, 15 ins. dia., N. 83° E., 43 lks. dist.,
marked T. 8 N., R. 30 E., S. 35 B. V.

a Nut Pine, 10 ins. dia., S. 50° W., 35 lks. dist.,
marked T. 7 N., R. 30 E., S. 3 B. V.

No other trees within limits.

Land rolling.

Soil 3rd rate

Timber of Pine and Cedar.

Vegetation, bunchgrass.

N. 89° 53' W. on a true line, bet. secs. 3rd & 4th,

40. 14° 18' East.

40.00 Set a sandstone, 24 x 18 x 12 ins.,
18 ins. in the ground, for 1/4 sec.
cr., marked 1/4 on N. face and
raised a stone mound alongside.

Pits impracticable; from which bars:

a Nut Pine, 8 ins. dia., S. 11° E., 52 lks. dist.,

S. boundary T. 8 N., R. 30 E., G. & W. P. R. M.

Chamis.

marked $\frac{1}{4}$ S. B. V.

No other tree within limits.

80.00 Set a sandstone, $14 \times 12 \times 6$ ins.,
9 ins. in the ground, for cor. to
secs. 3, 4, 33 and 34, marked
with 3 notches on E. and W.
edges and raised a mound
of stone alongside. Pits impracticable.
Land rolling.

Soil 3rd rate.

Timber of Pine and Cedar.

Vegetation, bunchgrass.

$N 89^{\circ} 53' W.$ on a true line, bet. secs. 4 and 33,

$Val. 14^{\circ} 18' East.$

40.00 To old $\frac{1}{4}$ sec. cor., previously described.

Land rolling. Soil 3rd rate.

Timber of Pine. Vegetation, bunchgrass.

Scrupulously examined the adjustments
of my Solar Compass today, particularly the
latitude & leveling apparatus and
found them correct. September 14th 1883.

E. boundary T. 8 N., R. 30 E., G. & S. R. M.

Chain's.

From the cor. to Tps. 7th and 8th N.,
R. 30th and 31st E., previously described,
From

North on a random line, bet. secs. 31 & 36.

Val. $14^{\circ} 21'$ East.

Over rolling land.

40.00 Found no trace of old '14 sec. cor.

Set temporary '14 sec. cor.

80.00 Found no trace of old cor. to secs.

25, 30, 31st and 36. Set temporary cor,
and continue North on a random line.

Val. $14^{\circ} 21'$ East.

40.00 Found no trace of old '14 sec. cor.

Set temporary '14 sec. cor.

79.00 To old cor. to secs. 19, 24, 25 & 30,
which is a sandstone, set firmly
in the ground, marked with
2 notches on S. ^{and} 4 notches on
N. edges, with a stone mound
in good order, along side;

Hence I run

E. boundary T. 8 N., R. 30 E., S. 31 B. 111

Chains.

South on a true line, bet. secs. 25th & 30,

Var. 14° 21' East.

39.75 Set a sandstone, 11 x 9 x 8 ins, 7 ins
in the ground, for 1/4 sec. cor., marked
1/4 on W. face and raised a
mound of stone along side. Pits
impracticable; from which trans:
a Cedar, 24 ins. dia, N. 80° W., 25 lks. dist,
marked 1/4 S. B. 111.

No other tree within limits.

79.50 Set a sandstone, 12 x 9 x 8 ins, 8 ins,
in the ground, for cor. to secs.
25, 30, 31 and 36, marked with
1 notch on S. and 5 notches on N.
edges and raised a mound of
stone along side. Pits impracticable;
from which trans:

a Yellow Pine, 24 ins. dia, S. 50° E., 52 lks. dist,
marked T. 8 N., R. 31 E., S. 31 B. 111.

No other trees within limits.

Land rolling.

E. boundary T. & N., R. 30 E., G. & S. R. M.

Charris

Soil 3rd rate.

Timber of Pine and Cedar.

Vegetation, bunchgrass.

South between secs. 31 and 36.

Wa. $14^{\circ} 21'$ East.

39.75 Set a sandstone, 16 x 11 x 8 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 along side.

Pits impracticable.

79.50 The cor. to T. & N.,
R. 30 and 31 E., previously described.
Land rolling.

Soil 3rd rate.

Timber of Pine and Cedar.

Vegetation, bunchgrass.

E. boundary T. 8 N., R. 30 E., S. 1 & 2 S. R. M.

Chemis.

From the cor. to secs. 19, 24, 25 & 30,
 previously described, from
 North on a random line, bet. secs. 19 & 24,
 Sta. 14° 21' East.

Over rolling land.

40.22 To old '44 sec. cor., which is a
 post set firmly in the ground,
 marked '44 S. on W. face, with
 pits $4\frac{1}{2}$ in S., $5\frac{1}{2}$ ft. dist, and a
 mound of earth, in good
 order around post.

80.42 To old cor. to secs. 13, 18, 19 & 24,
 which I find partly destroyed.
 I obliterate old corner and to
 reestablish same, set a lava
 stone, $16 \times 11 \times 10$ ins, 11 ins. in the ground,
 marked with 3 notches on N. & S. edges
 and raised a mound of stone
 alongside. Pits impracticable.
 Land rolling. Soil 3rd rate.
 Vegetation, bunchgrass.

BOOK Retracing
E. boundary T. 8 N., R. 30 E., S. 14 & S. R. M.

39.70

Went on a random line, bet. secs. 13 & 18,
Wa. $14^{\circ} 21'$ East.

Over rolling land.

39.70 To old '14 sec. cor.; the post marking
same, being destroyed, I set a
new one, 3 ft. long, 3 ins. square,
with marked stone, 12 ins. in
the ground, in old mound, marked
 $1/4$ S. on W. face; the old pits, N. & S.,
5 1/2 ft. dist, are in good order.

80.32 To a point 49 lks. West of cor.
to secs. 7, 12, 13 & 18, which is
a post, set firmly in the ground, marked
T. 8 N., S. 7 on N. E.

R. 31 E., S. 18 on S. E.

R. 30 E., S. 13 on S. W. ^{and}

S. 12 on N. W. faces, with 4 notches
on S. ^{and} 2 notches on N. edges, with
a stone mound, in good order,
around post; found which was:
At that Point, 8 ins. dia., 4.85 dia., 10 lks. dist.,

E. boundary T. 8 N., R. 30 E., G. 4th S. R. M.

Chain

marked T. 8 N., R. 30 E., S. 12 B. V.

The return course is therefore S. 42° W.

Land rolling.

Soil 3rd rate.

Timber of Pine and Cedar.

Vegetation, bunchgrass.

North on a random line, bet. secs. 7 & 12,

Wal. 14° 21' East.

Over rolling lands.

31.00 Enter dry Lake, cross E. and W.

34.00 Leave dry Lake, cross E. and W.

40.21 To old '14 sec. cor., which is a post set firmly in the ground, marked '14 S. on W. face, with pits N. and S. 5 1/2 ft. dist, and a mound of earth, in good order, around post.

80.00 Found no trace of old cor. to Secs. 1, 6, 7th and 12, and continue North, after setting temporary sec. cor.

E. boundary T. 8 N., R. 30 E., G. 2 S. R. 11.

Chains.

40.00 Found no trace of old $\frac{1}{4}$ sec. cor.

Set temporary $\frac{1}{4}$ sec. cor.

81.50 To a point 14.00 chs. West of sec. Standard $\frac{1}{4}$ sec. cor. on S. boundary sec. 36, T. 8 N., R. 30 E., which is a sandstone, set firmly in the ground, marked S. C. $\frac{1}{4}$ on N face, with a stone mound in good order along side,

and set a sandstone, $13 \times 12 \times 9$ ins, 9 ins. in the ground, for closing cor. to T. 8 N., R. 30 and 31 E., marked C. C. with 6 notches on S., E. and W. edges and raised a mound of stone along side.

Pits impracticable.

From this cor. I run South on a true line bet. secs. 1 and 6.

Var. $14^{\circ} 21'$ East.

41.50 Set a post, 3 ft. long, 3 ins. diam,

E. boundary T. 8 N., R. 30 E., G. & S. R. M.

Chamis

with marked stone, 12 ins. in the ground, for 1/4 sec. cor, marked 1/4 S. on W. face and raised a mound of stone around post.

Pits impracticable.

57.50 Cross road, bears N. W. ^{1/4} S. E.

81.50 A Pine tree, 12 ins. dia, which I marked

T. 8 N., S. 6 on N. E.

R. 31 E., S. 7 on S. E.

R. 30 E., S. 12 on S. W. ^{1/4}

S. 1 on N. W. faces, with 5 notches and ^{1/4} 1 notch on W. faces, dug pits 18x18x12 ins in each sec, 5 1/2 ft.

dist, and raised a mound of earth around tree, for cor to secs. 1, 6, 7 ^{and} 12.

Land rolling.

Soil 3rd rate.

Timber of Pine ^{and} Cedar.

Vegetation, bunchgrass.

E. boundary J. & N., R. 30 E., G. W. S. R. M.

Charris.

South on a true line, bet. secs. 7th & 12th,
 Was $14^{\circ} 21'$ East.

40.00 In old 14 sec. cor. previously
 described.

Land rolling.

Soil 3rd rate.

Timber of Pine and Cedar.

Vegetation, bunchgrass.

Thoroughly examined the
 adjustments of my Solar Compass
 today, particularly the latitude
 and meridian apparatus and
 found them correct.

September 15th 1883

W. boundary T. 20 N., R. 9 E., S. 1/4 S. R. M.

Manis

Before proceeding with the retracings of this boundary, I made a change of $1^{\circ}00'$ in the latitude arc of my Solar Compass, by adding same to the reading previously given and at noon verified and corrected same. My observation on the sun I also further tested instrument by reversing. I took the latitude ^{2nd} and found it to be $35^{\circ}03'N$. From the cor. to Tps. 19th and 20th, R. 8th and 9 E., which is a post, set firmly in the ground, marked T. 20 N., S. 31 or N. E. R. 9 E., S. 6 or S. E. T. 19 N., S. 1 or S. W. ^{2nd} R. 8 E., S. 36 or N. W. faces, with notches on each edge and a mound of stones in good order around post. I run

W. boundary J. 20 N. R. 9 E., E. and S. R. 11.

Chain.

North on a random line, bet. secs. 31 & 36.
 Val. $14^{\circ}40'$ East.

Ascend.

- 17.00 Top of Bluff, bears $N. 20^{\circ} W.$ and $N. 20^{\circ} E.$
- 38.00 Cross road, bears $E.$ and $W.$
- 40.00 To old '4 sec. cor., which is a post, set firmly in the ground, marked '4 S. on W. face, with a stone mound, in good order, around post; from which bears:
 a Juniper, 24 ins. dia., $S. 35^{\circ} W.$, 288 kds. dist, marked '4 S. B. J.
- 79.98 To old cor. to secs. 25, 30, 31 and 36, which is a post, set firmly in the ground, marked
 J. 20 N., S. 30 on N. E.
 R. 9 E., S. 31 on S. E.
 R. 8 E., S. 36 on S. W. and
 S. 25 on N. W. faces, with 1 notch on S. and 5 notches on N. edges, with a stone mound, in good order,

W. boundary T. 20 N., R. 9 E., S. 30 S. R. W.

Chains.

around post, from which bears:

A Juniper, 12 ins. dia., N. 32° E., 46 lks. dist,
marked T. 20 N., R. 9 E., S. 30 S.

A Juniper, 20 ins. dia., S. 63° W., 153 lks. dist,
marked T. 20 N., R. 8 E., S. 36 S.

Land broken

Soil 3rd rate.

Timber of Pine and Juniper,
Vegetation, bunchgrass.

North on a random line, bet. secs. 25 & 30.

Var. $14^{\circ}40'$ East.

Over rolling land.

40.00 To old $\frac{1}{4}$ sec. cor., which is a
post, set firmly in the ground,
marked '45. on W. face, with a
stone mound, in good order,
around post.

80.06 To a point 13 lks. East of old
cor. to secs. 19, 24, 25 and 30, which
is a post set firmly in the ground, marked

W. boundary V. 20 N., R. 9 E., S. 30 E. V. R. M.

Chains

V. 20 N., S. 19 or N.E.

R. 9 E., S. 30 or S.E.

R. 8 E., S. 25 or S.W.

S. 24 or N.W. faces, with 2 notches on S. side 4 notches on N. edges, with a stone mound, in good order, around post; from which bears:

A Juniper, 12 ins. dia, N. 11° E, 143 lks. dist, marked V. 20 N., R. 9 E., S. 19 B.C.

A yellow Pine, 36 ins. dia, S. 85° E, 259 lks. dist, marked V. 20 N., R. 9 E., S. 30 B.C.

A yellow Pine, 24 ins. dia, S. 72° W, 160 lks. dist, marked V. 20 N., R. 8 E., S. 25 B.C.

A yellow Pine, 4 ins. dia, N. 83° W, 375 lks. dist, marked V. 20 N., R. 8 E., S. 24 B.C.

The return course is therefore S. 11° E.

Land selling.

Soil 3rd rate.
Heavy timber of Pine & Juniper and undergrowth of same.

W. boundary J. 20 N., R. 9 E., G. 3 S. R. M.

Chanis

North and random line, bet. secs. 19^{and} 24,
Ta. 14° 40' East.

Ascend.

40.00 To old $\frac{1}{4}$ sec. cor., which is a
pat set firmly in the ground,
marked $\frac{1}{4}$ S. on W. face, with a
stone mound, in good order,
around pat's four white brass;
a yellow pine, Louis. dia., S. $5\frac{1}{2}$ W., 26 lks. dist.,
marked $\frac{1}{4}$ S. B. V.

Corner set on top of Ridge, bears
E. ^{and} W. ^{and} descend.

80.04 To old cor. to secs. 13, 18, 19 ^{and} 24,
which is a pat set firmly in
the ground, marked
J. 20 N., S. 18 on N.E.
R. 9 E., S. 19 on S.E.
R. 8 E., S. 24 on S.W., ^{and}
S. 13 on N.W. faces, with 3 notches
on N. ^{and} S. edges and a mound
of stone, in good order,

W. boundary V. 20 N., R. 9 E., S. 18 B. V.

Quarries.

around post; from which bears:

A yellow Pine, 6 ins. dia., N. 6° E., 57 lks. dist,
marked V. 20 N., R. 9 E., S. 18 B. V.A yellow Pine, 20 ins. dia., S. 1 1/4° E., 67 lks. dist,
marked V. 20 N., R. 9 E., S. 19 B. V.A yellow Pine, 38 ins. dia., S. 41 1/2° W., 233 lks. dist,
marked V. 20 N., R. 8 E., S. 24 B. V.A yellow Pine, 8 ins. dia., N. 70 1/2° W., 77 lks. dist,
marked V. 20 N., R. 8 E., S. 13 B. V.Land rolling ^{to} mountainous.Soil 3rd rate.Heavy timber of Pines [&] Juniper
and undergrowth of same.North on a random line; bet. sec. 10 [&] 18.

Va. 14° 40' East.

Descend.

40.00

To old 1/4 sec. cor., which is a post
set firmly in the ground, marked
1/4 S. on W. face, with a stone mound,
in good order, around post.

W. boundary V. 20 N., R. 9 E., G. 2nd S. R. M.

Quain's

79.92 To old cor. to secs. 7, 12, 13rd & 16,
 which is a post, set firmly in
 the ground, marked
 V. 20 N., S. 7 on N.E.
 R. 9 E., S. 18 on S.E.
 R. 8 E., S. 13 on S.W.^{2nd}
 S. 12 on N.W. face, with 4 notches
 on S. ^{2nd} & 2 notches on N. edges and
 a mound of stone, in good order,
 around post; from which bears:
 a yellow Pine, 36 ins. dia., N. 35° E., 221 lks. dist.,
 marked V. 20 N., R. 9 E., S. 7 B. V.
 a yellow Pine, 20 ins. dia., S. 80° E., 26 lks. dist.,
 marked V. 20 N., R. 9 E., S. 18 B. V.
 a yellow Pine, 48 ins. dia., S. 33° W., 157 lks. dist.,
 marked V. 20 N., R. 8 E., S. 13 B. V.
 a yellow Pine, 40 ins. dia., N. 80° W., 179 lks. dist.,
 marked V. 20 N., R. 8 E., S. 12 B. V.
 Land rolling. Soil 3rd rate,
 Heavy timber of Pine ^{2nd} & undergrowth
 of same ^{2nd} & Juniper.

W. boundary J. 20 N., R. 9 E., S. 7 & S. R. M.

Charris

North on a random line, bet. secs. 7 & 12,
Var. 14° 40' East.

Descend.

40.00

To oak 14 sec. cor, which is a
post, set firmly in the ground,
marked 14 S. on W. face, with a
stone mound, in good order,
around post; from which brass
a yellow Pine, 36 ins. dia, S. 62° E., 46 lks. dist,
marked 14 S. B. V.

a yellow Pine 30 ins. dia, N. 13° W., 19 lks. dist,
marked 14 S. B. V.

51.50

Cross Wash, 20 lks. wide, course
N. E. and ascend.

70.00

Top of Spur, brass N. E. & S. W. & descend.

80.00

To oak Cor. to secs. 1, 6, 7 and 12,
which is a post, set firmly in
the ground, marked
J. 20 N., S. 6 on N. E.
R. 9 E., S. 7 on S. E.
R. 8 E., S. 12 on S. W. and

W. boundary V. 20 N., R. 9 E., G. & S. R. M.

No. 1396

Chains.

D. 1 on N. W. face, with 5 notches
on S. and 1 notch on N. edges,
with a stone mound, around
post; from which bears:

A Yellow Pine, 30 vis. dia, N. 42° E., 257 lks. dist,
marked V. 20 N., R. 9 E., S. 6 B. V.

A Yellow Pine, 40 vis. dia, S. 62° E., 155 lks. dist,
marked V. 20 N., R. 9 E., S. 7 B. V.

A Yellow Pine, 30 vis. dia, S. 25° W., 67 lks. dist,
marked V. 20 N., R. 8 E., S. 12 B. V.

A Yellow Pine, 30 vis. dia, N. 62° W., 59 lks. dist,
marked V. 20 N., R. 8 E., S. 1 B. V.

Land rolling ^{and} mountains.

Soil 3rd rate.

Heavy timber of Pine ^{and} undergrowth
of same ^{and} Juniper.

North and random line, bet. secs. 1 & 6.

Wa. 14° 40' East.

Descend.

12.50 Cross Wash, 175 lks. wide, course

BOOK 135 Retraeing
W. boundary T. 20 N., R. 9 E., E. 1/2 S. 1/2

Chain's

- U. 50° E. and ascend.
- 40.09 To old '14 sec. cor., which is a post, set firmly in the ground, marked '14 S. on W. face, with a stone mound, in good order, around post; from which brass:
A yellow Pine, 12 ins. dia., N. 80° E., 19 lks. dist., marked '14 S. B. J.
A yellow Pine, 20 ins. dia., S. 15° W., 68 lks. dist., marked '14 S. B. J.
- 51.00 Top of Spur, brass N. W. and S. E. and descend.
- 72.00 Cross Wash, 25 lks. wide, course N. E. and ascend.
- 80.10 To old Closing Cor. to Tps. 20 N., R. 8 and 9 E., which is a post set firmly in the ground, marked C. C. T. 20 N. on S.
R. 9 E., S. 6 on E.
R. 8 E., S. 1 on W. face, with 6 notches on S., E. and W. faces,

W. boundary T. 20 N., R. 9 E., S. 6 S. R. 11

Cham's.

and a mound of stone, in
good order, around post;

from which bears;

A yellow Pine, 20 ins. dia, S. 30° W., 58 lks. dist,
marked T. 20 N., R. 8 E., S. 1 B. V.

A yellow Pine, 24 ins. dia, S. 12° E., 29 lks. dist,
marked T. 20 N., R. 9 E., S. 6 B. V.

Land rolling and mountainous.

Soil 3rd rate.

Many timber of Pine & under-
growth of same and Juniper.

October 8th 1883.

For final notes see
book ~~12~~ 13

U. S. Surveyor General's Office,

Tucson, Arizona, July 26, 1884,

The foregoing Field Notes of the Survey of the

Retracement

The Exterior Lines of Township 16 North

Range 31 East and Twp. 8 North

Range 30 East & Twp. 20 N. Range 9 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-

ted by A. C. Shoemaker

Deputy Surveyor, under his contract of the

day of August, 1882, having been

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

are hereby approved

Rayall A. Johnson
Surveyor General.