

2nd Bk

C

Subdivisions

T. 16 N, R. 5 W.

Contract N^o 89.

A. B. Mader. D.S.

~~No. 2.~~

BOOK 1728

~~#30~~

4-671

1728

FIELD NOTES

GENERAL LAND OFFICE.

1728

filed Dec 21/03

~~sent~~
sent for Examiner 1/11/04

copied by amt 7/22/04
comp by Gmb sent 7/26/04

~~1730~~ ~~1726~~ 1728

FIELD NOTES ^{BOOK 1728}

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP No. 16 NORTH, RANGE No. 5 WEST

OF THE

GILA AND SALT RIVER
BASE AND MERIDIAN

IN THE

TERRITORY OF ARIZONA

AS SURVEYED BY

ARTHUR B. MADER

U.S. DEPUTY SURVEYOR

UNDER HIS CONTRACT No. 89

DATED DEC. 9TH 1901.

SURVEY COMMENCED

SURVEY COMPLETED - NOV. 23RD, 1903

NAMES AND DUTIES OF ASSISTANTS

- W. E. Allen Chairman
- W. C. Myers Chairman
- Henry Clay Axman
- Oscar Clay Flagman

31	32	33	34	35	36	31		
				4TH. STANDARD PAR. N.				
		39		16				
6	5	36	4	13	3	2	1	
				BOOK 1728				
			35	10				
7	8	32	9	9	10	11	12	
60	58	30	T16N R5W					
18	56	17	28	16	5	15	14	13
54	52	27	3					
19	51	20	24	21	22	23	24	
49	48	22						
30	46	29	21	29	27	26	25	
44	42	19						
31	40	32	17	33	34	35	36	

T16N, R6W.

T16N, R4W.

T15N, R5W.

Sub-division of sp. 16 N, Rg. 5 W.
chains.

No other trees available.

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

Land, mountainous.

Soil, rocky, 4th rate.

Undergrowth oak.

Timber, cedar.

Mountainous land, or land
covered with dense brush
and through heavily
timbered land 80.00 chus.

N 89° 59' E, on a random line
bet. secs 15 and 22.

40.00 Set temp. ¼ cor.

80.03 Intersect N. and S. line 18

lks. S. of cor. of secs 14, 15
22 and 23.

Thence I run,

#

Subdivision of Tp. 16 N., Rg. 5 W.

chains

~~S 89° 51' W~~

S 89° 53' W on a true line
bet. sec's 15 and 22.

11.50

Over rocky rolling mountain
Cross Seepage Canyon, 60 lbs.
wide course N 80° E bears S 80° W
ascend, quartering up
very rough malapsi slope
through dense brush

30.00

ascend more gradually

35.00

Top of mountain -
over rough rolling tops

40.015

Set a malapsi stake 17 15 5 12
ins. in the ground for 1/4 sec.
cor.; marked M on face; from which

A cedar 8 ins. diam. bears N 15° E
52 1/2 lbs. marked V

A cedar 24 ins. diam. bears S 77° E
160 lbs. marked T

42.00

Cross gulch, 10 lbs wide, course
S. E. brs. N. W.
ascend rocky mountain
slope through heavy cedars

Subdivision of Sp. 16 N. Rg. 5 W.

chains

80.03

The cor. of secs 15, 16, 21 and 22.
Land mountainous.
Soil, rocky, 4th rate.
Undergrowth oak.
Timber, cedar.
Mountainous land and
land covered with dense
brush or heavily timbered
land, 80.03 chains.

N 0° 02' W, bet. secs 15 and 16.

Over rolling, rocky mountain
top. - as above

4.00

Enter heavy cedar timber

32.50

Cross wash, 10 lks wide, course
S.E. bears N.W.

40.00

Set a malapi stone 17 12 3 ins, 12
ins. in the ground for 1/4 sec.
cor.; marked 1/4 on W face; from which

A cedar 30 ins. diam. bears N 35° W

116 1/2 lks. marked 16

A cedar 8 ins. diam. bears S 52° E

163 1/2 lks. marked 1/4 S 15

Subdivision of Tp. 16 N. Rq. 5 W.

chains

descend, thro' scattering cedars.

68.00

descend steep brushy slope

73.60

cross gulch, 40 lks. wide
course S.E. ascend
steep south slope

80.00

Set ~~at~~ ^{at} Malpais 20 15 10 15

ins. in the ground for cor. of

secs. 9 10 15 and 16 3 notches

on E and 4 notches on S edges, and

raised a mound of stone

2 ft. base, 1/2 ft. high W. of
cor. Pits impracticable.

No trees available.

Land mountainous.

Soil, rocky, 4th rate.

Undergrowth, oak.

Timber, cedar.

Mountainous land, and land
covered with dense brush and
heavily timbered land

Subdivision of Tp. 16 N. Rg. 5 W.

chains

80.00 chus.

November 12, 1903.

November 13: At 8^{h.} 00^{m.} A.M.
 l.m. 7. I set off $34^{\circ} 47\frac{1}{2}'$ on
 the lat. arc and $17^{\circ} 43'$ S on
 the decl. arc and determine
 a true meridian with the
 solar at the cor. of sec's
 9-10-15 and 16.

Thence I run

\checkmark ~~N 89° 53' E~~ ^{N 89° 51' E} on a random
 line bet. sec's 10 and 15

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

80.00 Intersect N. and S. line ~~14~~¹⁸⁰
 lks. N. of cor. of sec's 10, 11
 14 and 15

Thence I run

S 89-59' W on a true line
 bet. sec's 10 and 15

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BOOK 1728

Subdivision of Tp. 16 N. Rg. 5 W.

chains

- Over rolling mountain
and through heavy cedar timber
- 19.00 Leave dense cedars, over
rough boulders and through
scattering cedars
- 31.00 Enter dense cedars
- 35.50 Leave dense cedars
- 40.00 Set a malpais 20 14 6 15
ins. in the ground for 1/2 sec.
cor.: marked N.
- A cedar 8 S 23°-53' E
- 25 1/2 15
- A cedar 4 N 0°-40' E
- 122 10
- ascend rough broken slope
through scattered cedars
- 80.00 The cor. of sec's 9-10-15 and 16.
Land mountainous.
Soil, rocky, 4th rate.
Timber, cedar.
Mountainous land
and heavily timbered

Subdivision of T. 16 N. R. 5 W.

chains

land. 80.00 chus.

N. 0°-02' W, bet. sec's 9 and 10
Ascend broken mountain
slope

10.00 Top of Ridge, bears E and W
descend rough slope through
brush

18.00 head of wash, ~~course~~ 800 ft.
to the E, course N.

40.00 Set a ^{malpais} stone 20 x 10 x 6 ins. 15
ins. in the ground for $\frac{1}{4}$ sec.
cor.; marked $\frac{1}{4}$ on W. face
and raised a mon. of stone
2 ft. base $1\frac{1}{2}$ ft. high
W. of cor.

Pits impracticable.

No bearings available.

51.60 Descend rough broken N slope
dense oak brush

Subdivision of Sp. 16 N. Rq. 5 W.

chains

64.00

Cross gulch, 30 lks. wide
course N 25° W bears S 27° E.

80.00

Set a malpais stone 15 x 10 x 7 ins. 10
ins. in the ground for cor. of
secs. 3 4 9 and 10 with 3
on E and 5 S and

raised a mound of stone
2 ft. base 1 1/2 ft. high W. of
cor. Pits impracticable.

No bearings available.

Land mountainous.

Soil, rocky, 4th rate.

Undergrowth, oak.

Mountainous land and
land covered with dense
brush. 80.00 chns.

N 89°-59' E on a random
line bet. secs. 3 and 10

40.00

Set temp. 1/4 cor.

Subdivision of Tp. 16 N. Rg. 5 W.

chains

80.18

Intersect N. and S line
14 Mts. S. of cor. of sec's.
2, 3, 10 and 11.

Thence I run
S89°-53' W, on a true line
bet. sec's 3 and 10.

Over steep sided mountain
and through dense brush

10.35 Top of mountain, and
over top

13.00 descend west slope

27.30 cross gulch, course N.E.

40.09

Set a *malpais* stone 16 x 10 x 6 ins. 8 ins.

in the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face and
raised a mound of stone
2 ft. base $1\frac{1}{2}$ ft. high N.
of Cor. Pits impracticable.
No bearings available.
ascend broken slope

Subdivision of Tp. 16 N, Rg. 5 W.
chains.

- through oak brush
- 55.00 Top of mountain, over
mountain top, rough and
through dense brush
- 73.50 Descend sharp west slope,
through dense brush
- 80.18 The cor. of secs 3, 4, 9 and 10.
Land mountainous.
Soil, rocky, 4th rate.
Undergrowth, oak.
Timber, none.
Mountainous land, and
land covered with dense
brush - 80.18 chns.

November 13th 1903.

November 14: At 8^{h.00} A.M.
✓ l.m. T. I set off $34^{\circ} - 45'$ on
the lat. arc and $17^{\circ} - 59'$ S on
the decl. arc and determine
a true meridian with the

Subdivision of Tp. 16 N. Rg. 5 W.

chains.

solar at the cor. of seis, 3, 4,
9 and 10.

Thence I run

N^o-02' W, between seis 3 and 4.

Ascend rocky mountain
side, through dense brush

12.00 Top of mountain, over
mountain top

14.00 descend north slope

24.00 bottom of slope, over
broken mountainous
land

32.00 Ascend granite hill

40.00 Set a granite 18 10 8 ins. 14
ins. in the ground for $\frac{1}{4}$ sec.
cor.; marked $\frac{1}{4}$ on W

A pine tree 8 N 37° W

45 $\frac{1}{4}$ 54 B.T. ✓

Pits impracticable.

No other bearings available.

And raised a mound of
stone 2 ft. base 1 $\frac{1}{2}$ ft.

Subdivision of Tp. 16 N. Rg. 5 W.

chains.

- high, W. of cor.
Over rough granite mountains cut by deep crevasses.
- 62.00 Point on ridge, bears E & W.
- 76.25 Cross gulch, Humphrey Canyon, 20 lbs. wide, course N. E.
- 90.30 Top of mountain - over rolling mountains
- 108.90 Cross gulch, 10 lbs. wide, course N 70° E
- 119.50 on ridge, brs. E and W. over rolling mountains and through dense brush and scattering cedars
- 142.30 descend through dense brush
- 178.85 Intersect the 4th Standard Parallel North.
- Set a malpi stone 16 x 15 x 10 ins. 11 ins. in the ground for

Subdivision of Tp. 16 N. Rg. 5 W.
chains.

a closing cor. of seis 3
and 4, marked with 3
notches on E. and W. and C.C.
on S. face, from ~~which~~

A cedar 8 ins. diam. bears S $21^{\circ} 24' W$
38 lbs. dist. marked T 16 N R 5 W
S 4 B T C.C. ✓

And raised a mon. of
stone 2 ft. base $1\frac{1}{2}$ ft. high
S. of cor.

Pits impracticable.

No other bearings available.

Land mountainous.

Soil, rocky, 4th rate.

Undergrowth, oak.

Timber, cedar.

Mountainous land, and land
covered with dense brush and
heavily timbered land, 178.85 chas.

16. Subdivision of Tp. 16 N. Rg. 5 W.
chains.

Hence I run
Due East, on a connecting
line, over rolling
land and through heavy
cedar timber,

9.20 The standard $\frac{1}{4}$ sec. cor. on
S. bdy. of sec. 34, Tp. 17 N.
Rg. 5 W.

Land, rolling.
Soil, stony, 3rd rate.
Timber cedar.
Heavily timbered land
9.20 chus.

November 14, 1903

November 15th. In camp.

Subdivision of Tp. 16 N. Rg. 5 W.
chains.

November 16th 1903, At 8^{h.} 00^{m.}

A.M. l.m. 7. I set off 34°

✓ $41'$ ^N on the lat. arc. and
 $18^{\circ} 30'$ S. on the declin arc.

and determine a true
meridian with the solar
at the cor. of seis 32 and 33

Thence I run

$N 0^{\circ} - 02' W$, bet. seis 32 and 33.

Over granite mountains
descend

3.00 Cross gulch, 1 ch. wide course W.

4.15 ascend rough south slope
of mountain, through dense
cedar brush

15.60 Top of mountain, and cross
brush fence bears E + W
over granite mountain top

21.50 descend through dense brush

Subdivision of Sp. 16 N. R. 5 W.

chains

33.30 Cross road, bears N.E. and S.W.

36.30 Cross fence, bears E and W.

40.00 Set a granite stone 30 x 12 x 7 ins. ⁷³ 22
ins. in the ground for 1/4 sec.

cor.; marked W face,

A Piuon 12 ins. in diam. bears N28°47'E

13 1/2 lbs. marked 1/4 S 33 B.T. ✓

A juniper 9 in diam. bears S39°38'W

53.8 lbs. marked 32 ✓

over rolling mountains and
through dense oak brush

68.00 ascend

75.00 ascend steep slope

80.00 Set a malapi stone 26 x 14 x 10 ins. 21

ins. in the ground for cor. of
secs. 28 29 32 and 33 marked with 4 notches

on E and 1 notch, 1 on S edge from which

A cedar 4 in diam. bears N42°20'W

37 1/2 lbs. dist. marked T 16 N. R 5 W.

S 29 B.T. ✓

A cedar 4 in diam. bears S20°40'E

85 lbs. dist. marked T 16 N. R 5 W.

S 33 B.T. ✓

A cedar 8 in diam. bears S52°18'W

71 lbs. dist. marked T 16 N. R 5 W.

S 32 B.T. ✓

Subdivision of Tp. 16 N. Rg. 5 W.

chains

A pine 8 ins. diam. bears $N 32^{\circ} E$
 123 fts. dist. marked T 16 N. R 5 W

S 28 B T'

Land mountainous.

Soil, rocky, 4th rate.

Undergrowth, cedar and oak.

Timber, cedar.

Mountainous land and
 land covered with dense
 brush - 80.00 chus.

East on a random line
 bet. sec's 28 and 33.

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

79.94 Intersect N. and S. line
 12 mts. N. of cor. of sec's
 27-28, 33 and 34.

Thence I run

$N 89^{\circ} 55' W$ on a true line
 bet. sec's 28 and 33.

over rolling and broken

Subdivision of Sp. 16 N., Rg. 5 W.

chains.

south slope of mountain through heavy cedar timber and dense brush

22.00

Cross creek, 10 lks. wide, course N. E. leave heavy timber

39.97

Set a granite stone 24 x 12 x 8 ins. in the ground for 1/4 sec. cor.: marked 1/4 on N. face; from which

A Pinon 8 ins. diam. bears N 54°-5' W

80 lbs. marked 1/4 S 28 B T

A juniper 10 ins. diam. bears S 57°-45' E

17 lbs. marked 1/4 S 33 B T

79.94

ascend over very broken ground, through dense brush the cor. of sec's 28, 29, 32 and 33.

Land mountainous.

Soil, rocky, 4th rate.

Timber, cedar and juniper.

Undergrowth, oak.

Mountainous land, land covered with dense brush and heavily timbered land

Subdivision of T_o. 16 N. R_g. 5 W.
chains.

79.94 chus.

No. 02' W, bet. secs 28 and 29
ascend steep south
slope, very broken

11.75

Top of slope, and
over rolling mountain top

12.50

enter heavy cedar timber

35.00

Leave heavy timber,
scattering cedars

40.00

Set a malapi ^{18 x 12 x 8 ins.} 12
ins. in the ground for $\frac{1}{4}$ sec.
cor.; marked $\frac{1}{4}$ on W face; from which

A juniper 6 ins. diam. bears N 29° 41' W
191 lbs. marked $\frac{1}{4}$ 29

A cedar 6 ins. diam. bears N 38° 40' E
59 lbs. marked $\frac{1}{4}$ 28

ascend over rolling mountain
top, large malpais boulders
scattering cedar and juniper

80.00

Set a malapi ^{22 x 12 x 7 ins.} 16
ins. in the ground for cor. of
secs. 20 21 28 and 29 marked with 4 notches
on E and 2 notches on S edges; from which

Subdivision of Tp. 16 N. Rg. 5 W.

chains

S20 B2	juniper 8 163 29 BT	16 N R 5 W N62°-54' W
S29 B2	cedar 6 263 32 BT	16 N R 5 W S64°-5' W
S28 B3	juniper 17 245 33 BT	16 N R 5 W S26°-23' E
S21 B3	juniper 18 85 1/2 38 BT	16 N R 5 W N48°-40' E

Land mountainous.

Soil, rocky, 4th rate.

Timber, cedar and juniper

Mountainous land and heavily timbered land, 80.00 chns.

S 89°-55' E on a random line
bet. sec's 21 and 28.

40.00 Set a temp. 1/4 cor.

79.88 Intersect N. and S. line
23 lks. S. of cor. of sec's

Subdivision of Sp. 16 N., Rg. 5 W.

chains

21, 22, 27 and 28.

Thence I run

S $89^{\circ}55'$ W on a true line
bet. sec's 21 and 28.Ascend mountain slope
over rough broken boulders
through scattered cedar and
juniper trees

39.94

Set a malapi stone $14 \times 10 \times 8$ ins. $\frac{10}{9}$ ins.in the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face; and
raised a mound of stone
2 ft. base, $1\frac{1}{2}$ ft. high N.
of. Cor. Pits impracticable.
No bearings available.

43.00

ascend steep rough slope

52.00

ascend more gradually

59.00

descend over rough ground
scattered cedars

79.88

The cor. of sec's 20, 21, 28 and 29.

Subdivision of Tp. 16 N. Rg. 5 W.
chains

Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and juniper.
Mountainous land, 79.88 chns.

November 16, 1913.

November 17, At 8^h. 00^m. A.M.

✓ l.m. & I set off $34^{\circ} 43'$ on
the lat. arc and $18^{\circ} 45' S.$ on the
decl. arc and determine a
true meridian with the solar
at the cor. of seis 20, 21, 28 and 29.
Thence I run

$N 0^{\circ} 02' W$, bet. seis 20 and 21

Over rolling mountain and
ascend rocky mountain slope

32.00 descend, through scattering
cedar and dense brush

40.00

Set a malapi stone $15 \times 12 \times 4$ ins. 10
ins. in the ground for $\frac{1}{4}$ sec.
cor.; marked $\frac{1}{4}$ on W face; from which

Subdivision of Tp. 16 N. Rq. 5 W.

chains

A cedar 18 S 24° W
142 lks. dist. marked 1/4 S 20 B.T. ✓

And raised a mound of stone
2 ft. base, 1 1/2 ft. high, W of
cor. Pits impracticable.

No other bearings available
descend rough brushy slope
71.00 descend steep slope over
boulders and through
dense brush

80.00

The point for sec. cor. falls
on a malapi boulder in
place 3 1/2 x 3 ft. x 16 ins.
above ground, at the N. edge
of bed of creek, 15 lks
wide, course S 60° E.

cut a cross (x) at the exact
point for cor. of sec's 16, 17
20, 21 and 4 notches on
E and 3 notches on S.
edges, from which;

Subdivision of Tp. 16 N. Rg. 5 W.

chains.

A cedar 5 1/2 dist. bears due E
 38 1/2 dist. marked T 16 N R 5 W

S 16 B.T. ✓

A cedar 8 1/2 dist. bears S 30° E
 34 1/2 1/2 dist. marked T 16 N R 5 W

S 21 B.T. ✓

A cedar 9 1/2 dist. bears N 34° W
 11 1/2 dist. marked T 16 N R 5 W

S 17 B.T. ✓

and raised a mound of stones 2 ft. base, 1 1/2 ft. high to the N. E. of cor., on the bank of the creek. Pits impracticable. No other bearing available.

Land mountainous.

Soil, rocky, 4th rate.

Timber cedar.

Undergrowth, oak.

Mountainous land and land covered with dense brush - 80.00 chus.

Subdivision of Sp. 16 N. Rg. 5 W.

chains.

N $89^{\circ}55'$ E on a random line
bet. sec's 16 and 21.

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

79.90 Intersect N. and S. line

17 lks. N. of cor. of sec's 15,
16, 21 and 22.

Thence I run

N $89^{\circ}58'$ W on a true line
bet. sec's 16 and 21.

ascend over rolling mountains
through dense oak brush

39.95 Point for $\frac{1}{4}$ sec. cor. falls on
a malapi rock, in place, 4 x
3 ft. x 14 ins. above ground.

Cut a cross (x) at exact point
for $\frac{1}{4}$ cor. and $\frac{1}{4}$ N. of cross
as from which -

A juniper 8 ins. diam. bears N 78° E
194 lks. marked $\frac{1}{4}$ S 16 B T v

A cedar 10 ins. diam. bears S 21° W

308 lks. marked $\frac{1}{4}$ S 21 B T v

Subdivision of Tp. 16 N. Rg. 5W

chains

- descend broken slope over large boulders, scattering brush
- 76.50 Cross Seepage Cañon, 20 lks. wide course S 60° E
- 79.90 The cor. of secs 16, 17, 20 and 21. Land mountainous. Soil, rocky, 4th rate. Timber, Cedar & juniper Undergrowth, oak. Mountainous land and land covered with dense undergrowth, 79.90 chus.
-
- No°-02'W, bet. secs 16 and 17. Ascend rough south slope of mountain, through dense brush
- 17.50 ascend more gradually, large boulders, scattering brush and cedars

Subdivision of Tp. 16 N., Rg. 5 W.

chains

40.00

Set a malepi stone $22 \times 12 \times 3$ ins. 17ins. in the ground for $\frac{1}{4}$ sec.cor.; marked $\frac{1}{4}$ on W face; from whichA cedar 28 ins. diam. bears $S 34^\circ W$ 126 lbs. marked $\frac{1}{4}$ S 17 B TA juniper 16 ins. diam. bears $N 83^\circ E$ 261 lbs. marked $\frac{1}{4}$ 16 E Tascend rough slope,
growing steeper

67.50

Top of mountain, and
descend through scattering
cedars, over broken ground

80.00

Set a malepi stone $16 \times 8 \times 7$ ins. 11

ins. in the ground for cor. of

secs. 8, 9, 16 and 17, marked with 4 notches

on E and 4 notches on S edges;

A juniper 54 ins. diam. bears $S 40^\circ E$

38 lbs. dist. marked T 16 N R 5 W

S 16 B T

A cedar 24 ins. diam. bears $N 50^\circ E$

260 lbs. dist. marked T 16 N R 5 W

S 9 B T

A cedar 20 ins. diam. bears $N 8^\circ W$

208 lbs. dist. marked T 16 N R 5 W

S 8 B T

Subdivision of Tp. 16 N, Rg. 5 W.

chains

and raised a mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high
W. of cor.

Pits impracticable.

No other bearing available.

Land mountainous.

Soil, rocky, 4th rate.

Timber, cedar and juniper

Undergrowth, oak.

Mountainous land and
land covered with dense
undergrowth, 80.00 chus.

S89°-58'E on a random line
bet. sec's 9 and 16

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

79.76 Intersect N. and S. line
23 lks. S. of cor. of sec's

9-10-15 and 16

Thence I run

Subdivision of Tp. 16 N. Rg. 5 W.
chains.

S 89°-52' W, on a true line
bet. sec's 9 and 16
ascend over rough
mountain slope

13.00 top and descend through
brush

25.00 Cross gulch, 15 lbs. wide course
S bears N.

ascend very broken
slope

39.88 Set a malapi stone 18 x 12 x 6 ins. 12
ins. in the ground for $\frac{1}{4}$ sec.
cor.; marked $\frac{1}{4}$ on N. face; from which
A cedar 6 ins. diam. bears N 32°-40' E
100 lbs. marked $\frac{1}{4}$ Q 9 B T ↓
A juniper 16 ins. diam. bears S 43°-31' E
159 lbs. marked $\frac{1}{4}$ S 16 B T ↓

ascend brushy slope of
mountain

44.00 Top of ridge bet. N. E. & S. W.
descend over broken ground
through heavy cedar timber

Subdivision of Twp. 16 N., Rg. 5 W.

chains

79.76

The cor. of sec's 8, 9, 16 and 17.

Land mountainous.

Soil rocky, 4th rate.

Timber, cedar and juniper

Undergrowth, oak.

Mountainous land, and land covered with dense under growth and heavily timbered land, 79.76 chus.

November 17th.November 18th, At 8^h 00^m A.M.

V l. m. A. I set off $34^{\circ} 44\frac{1}{2}'$ on the lat. arc and $19^{\circ} 00'$ S. on the dec'd arc and determine a true meridian with the solar at the cor. of sec's 8, 9, 16 and 17

Thence I run

N $0^{\circ} 02'$ W, bet. sec's 8 and 9 descend broken mountain

Subdivision of Tp. 16 N. Rq. 5 W.

chains

slope, through scattered cedars

13.00

East end of Seepage Mt.
bears W. $3\frac{1}{8}$ mile

32.00

Edge of canyon bears S.W. and
N 30° E

40.00

descend steep rocky slope
through, dense brush,The point for $\frac{1}{4}$ ^{sec.} cor. falls on
a malapi stone, in place
 $24 \times 20 \times 20$ ins. aboveground. Cut a cross (x)
at exact cor. point and $\frac{1}{4}$ W. of cross and
raised a mound of stone
2 ft. base $1\frac{1}{2}$ ft. high W. of
Cor. Pits impracticable.

No bearings available.

descend slope, over
broken mountains

47.00

Cross gulch, 15 lbs. wide

Subdivision of Tp. 16 N., Rg. 5 W
chains

79.95

course N. E. bears S. W. and
through dense brush
cross gulch, 5th wide, course
N. E. bears S. W.

80.00

Set a malapi stone 22 x 10 x 6 ins. 17
ins. in the ground for cor. of
secs. 4 5 8 and 9 marked with 4 notches
on 2 and 5 notches on 5 edges; from which

A cedar 10 ins. diam. bears N 35° 45' E
32 lbs. diam. marked 16 N R. 5 W
S 4 BT ✓

and raised a mound of
stone 2 ft. base 1 1/2 ft. high
W. of Cor. Pits impracticable.
No other bearings available.
Land mountainous.

Soil, rocky, 4th rate
Timber, cedar.

Undergrowth, oak.

Mountainous land and
land covered with dense
brush and heavily

Subdivision of Tp. 16 N. Rg. 5 W.

chains

timbered land, 80.00 chus.

N 89°-52' E \downarrow on a random line
bet. sec's 4 and 9

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

79.80 Intersect a N. and S. line
3 $\frac{1}{2}$ lks. N. of cor. of sec's
3, 4, 9 and 10.

Thence I run

N 89°-54' W \downarrow on a true line
bet. sec's 4 and 9.

over broken rolling
mountains, descend through
dense brush

10.00 cross gulch, 15 lks. wide,
course N. W. bears S. E.

29.00 cross wash, bears N. and S.

39.90 Set a malapi stone 20 x 12 x 3 ins. 15 ins.
in the ground, for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face
and raised a mound

Subdivision of T_p. 16 N. R_g. 5 W.

chains

of stone 2 ft. base, 1 1/2 ft.
high N. of Cor.

Pits impracticable.

No bearings available
descend steep rough slope

49.60 cross gulch, 25 lks. wide, course
N. E. bears S. W. and
through dense brush

79.70 cross gulch, 5 lks. wide, course N. E.

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

Land mountainous.

Soil, rocky, 4th rate.

Timber, some cedar.

Undergrowth oak.

Mountainous land, and land
covered with dense undergrowth

79.80 chus.

N 0°-02' W, bet. secs 4 and 5
ascend steep slope of

Subdivision of Twp. 16 N. Rg. 5 W.
chains

mountain, through dense brush

8.00 Top - and descend

25.00 Crosswash, 50 lbs. wide, course
S 75° E.

ascend broken, steep mountain
slope

40.00

Set Malpais stone 14 x 8 x 6 ins. 10
ins. in the ground for $\frac{1}{4}$ sec.
cor.; marked $\frac{1}{4}$ on W face; from which

A juniper 8 ins. diam. bears S 30° E
110 lbs. marked $\frac{1}{4}$ on W face

and raised a mound of
stone 2 ft. base, 1 1/2 ft. high
W. of cor. Pits impracticable.
No other bearing available.
Ascend

43.00 Enter heavy cedar timber

45.00 top of mountain and over
rolling mountain top, through
dense cedars.

117.00 Cross Wickiup Canyon,
30 lbs. wide, course N. E. bers S. W.

Subdivision of Sp. 16 N. Rq. 5 W.

chains

172.00 Cross Pole Creek, 20 lks. wide
course E bears W.178.94 Intersect the Fourth Standard
Parallel North.

Set a granite stone 14 x 6 x 6 ins., 10 ins.

in the ground for a closing
cor. of Secs 4 and 5, marked
4 notches on E, 2 notches on
W and C. C. on S. face,
from which;

A cedar 24 lks. dist. bears S 27° E

62 lks. dist. marked T 16 N R 5 W

S 4 BT C. C. ✓

A cedar 6 lks. dist. bears S 41° W

46 1/2 lks. dist. marked T 16 N R 5 W

S 5 BT C. C. ✓

And raised a mound of
stone 2 ft. base, 1 1/2 ft. high S.
of cor.

Land mountainous.

Soil, rocky, 4th rate.

Timber, cedar.

Subdivision of Tp. 16 N. Rg. 5 W.

chains

undergrowth, oak.

Mountainous land, and
land covered with dense
undergrowth and heavily
timbered land, 178.94 chns.

Thence I run due E on
a connecting line,
over mountainous land
and through heavy cedar
timber

9.05 The standard $\frac{1}{4}$ sec. cor. on
the S. bdy. of sec. 33, Tp.
17 N. Rg. 5 W.

Land mountainous.

Soil, stony, 3rd rate.

Timber cedar.

Mountainous land and heavily
timbered land, 9.05 chns.

November 18th

Subdivision of Twp. 16 N. Rg. 5 W.

chains

November 19th 1903, At 8^{h.} 00^{m.}

A.M. l.m.t. I set off 34°-

✓ ~~41~~⁴⁴° N on the lat. arc and

19°-14' S on the decl. arc and

determine a true meridian
with the solar at the cor.

of sec's 31 and 32.

Thence I run

N 0°-03' W, bet. sec's 31 and 32

Over rough and broken
mountain slope, ascend
through dense brush,

11.00 descend

26.00 Cross wash, Burke Cañon,
30 lks. wide course S 25° E.ascend S. slope of mountain,
through dense brush

38.25 Top of slope

40.00 Set a malapite stone 19 x 12 x 4 ins., 14
ins. in the ground for ¼ sec.
cor.; marked ¼ on W face; ~~monument~~ and

Subdivision of Tp. 16 N., Rg. 5 W.

chains

raised a mound of stone
2 ft. base $1\frac{1}{2}$ ft. high W.
of. Cor. Pits impracticable.
No bearings available.

44.90 Descend rough and brushy
north slope,

66.50 Cross gulch, 70 lks. wide, course
S.E. and ascend

80.00. Set a ^{malpais} stone $20 \times 12 \times 5$ ins. 15
ins. in the ground for cor. of

secs. 29, 30, 31 and 32 marked with 5 notches
on E and 1 notches on S edges; from which

A cedar 32 ins. diam. bears $N 9^{\circ} 30' W$
144 lks. dist. marked T 16 N R 5 W

S 30 B T ↓

A cedar 16 ins. diam. bears $S 60^{\circ} 27' E$
205 lks. dist. marked T 16 N R 5 W

S 32 B T V

A cedar 24 ins. diam. bears $S 61^{\circ} 44' W$
184 lks. dist. marked T 16 N R 5 W

S 31 B T ↓

And raised a mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high

Subdivision of Sp. 16 N. Rg. 5 W.
chains

W. of cor. Pits impracticable.
No other bearing available.
Land mountainous.
Soil, rocky, 4th rate.
Timber, cedar.
Undergrowth, oak.
Mountainous land and
land covered with dense
undergrowth 80.00 chus.

East on a random line
bet. sec's 29 and 32.

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

79.90 Intersect a N. and S line
15 lks. S. of the cor. of
sec's 28, 29, 32 and 33.

Thence I run

$S 89^{\circ} 54' W$ on a true line
bet. sec's 29 and 32

ascend rocky slope

Subdivision of Tp. 16 N. Rg. 5 W.

chains

over rolling mountains
through dense cedars

14.00 Top of mountain and over
top.

25.00 Descend, steep west slope

35.00 Cross gulch, 25 lbs. wide,
course S (Smith's Canyon)
ascend, through dense brush

39.95 Point for $\frac{1}{4}$ sec. cor. falls on
a malapi stone in place, 30
 \times 16 \times 16 ins. above the ground,
at edge of precipice near top
of mountain, and cut a
cross (x) at exact cor. point
and $\frac{1}{4}$ N. of cross, from which;
a cross (x) on a malapi
boulder, part of ledge
8' high, bears $S 36^{\circ} W, 9\frac{1}{2}$
lbs. chiseled B. B. $\frac{1}{4} S 32$
above the cross, and

Subdivision of Tp. 16 N. Rg. 5 W.
chains

- raised a mound of stone
2 ft. base $1\frac{1}{2}$ ft. high N.
of Cor. Pits impracticable.
No other bearing available.
- 40.50 Top of mountain and over
rolling, stony mountain
top
- 79.90 The cor. of secs 29, 30, 31
and 32.
Land mountainous.
Soil, rocky, 4th rate.
Undergrowth, oak.
Mountainous land and
land covered with dense
undergrowth, 79.90 chus.
-
- West, on a random bet.
secs 30 and 31.
- 40.00 Set a temp. $\frac{1}{4}$ sec. cor.
- 90.31 Intersect the W. bdy. of

Subdivision of Tps. 16 N. Rgs. 5 W.

chains

Tp., 15 lks. S. of cor. of
secs 25, 30, 31 and 36 Tps. 16
N. Rgs 5 and 6 W,

Thence I run

~~S 89° 54' E~~
S 89° 55' E on a true line

bet. secs 30 and 31

descend over rough
malapi mountain slope
through scattered cedars

50. 31 Point for $\frac{1}{4}$ sec. cor. falls on
malapi stone, in place, 3 x
3 ft. x 18 ins. above the ground.
Cut a cross (x) at exact
cor. point and $\frac{1}{4}$ N. of cross
from which;

A cedar 6 1/2 diam. bears S 18° W
20 $\frac{1}{2}$ lks. dist. marked $\frac{1}{4}$ S 31 B.T. ✓

A cedar 6 1/2 diam. bears N 35° E
53 $\frac{1}{2}$ lks. dist. marked $\frac{1}{4}$ S 30 B.T. ✓

73. 25 ascend

90. 31 The cor. of secs 29, 30

Subdivision of Twp. 16 N. Rg. 5 W
chains

31 and 32.

Land mountainous.

Soil, rocky, $4\frac{1}{2}$ rate.

Timber, cedar.

Mountainous land, 90.31 chns.

N 0° - $03'$ W, bet. sec's 29 and 30
ascend over rolling
mountains, through scattered
cedars

40.00

Set a malpais stone 18 x 14 x 7 ins. 14
ins. in the ground for $\frac{1}{4}$ sec.

cor.; marked $\frac{1}{4}$ on W face; ~~from this~~ and
raised a mound of stone
2 ft. base $1\frac{1}{2}$ ft. high W. of
cor. Pits impracticable
No bearings within limits.
descend, over malpais
boulders

63.00

Cross gulch, 15 lbs. wide, course
E bears W. and ascend

Subdivision of Sp. 16 N. Rg. 5 W.

chains

80.00

Set a malapi stone 18 x 14 x 12 ins. 15
ins. in the ground for cor. of
secs. 19, 20, 29 and 30, marked with 5 notches
on E and 2 notches on S edges; from which

A cedar 36 ins. diam. bears N 16°-14' W

97 fts. dist. marked T 16 N R 5 W

S 19 B T ✓

A cedar 6 ins. diam. bears N 54°-10' E

144 fts. dist. marked T 16 N R 5 W

S 20 B T ✓

A cedar 12 ins. diam. bears S 86°-2' E

166 fts. dist. marked T 16 N R 5 W

S 29 B T ✓

A cedar 7 ins. diam. bears S 72°-20' W

16 fts. dist. marked T 16 N R 5 W

S 30 B T ✓

Land mountainous.

Soil, rocky, 4th rate.

Timber, cedar.

Mountainous land, 80.00 chus.

November 19, 1903.

November 20, 1903, At 8^h. 00^m.

A. M. L. M. & I set off

✓ 34° - ^{45 1/2} 43° 1' N on the lat. arc and

48

Subdivision of Twp. 16 N. Rg. 5 W.

chains

$19^{\circ} 28\frac{1}{4}'$ S. on the decl. arc.
and determine a true
meridian with the solar
at the cor. of seis 19, 20,
29 and 30.

Thence I run

$N 89^{\circ} 54' E$ on a random line
bet. seis 20 and 29.

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

79.68 Intersect a N. and S line
23 lks. N. of the cor. of seis
20, 21, 28 and 29.

Thence I run

$N 89^{\circ} 56' W$ on a true line
bet. seis 20 and 29.

descend over rolling
mountains, through scattered
cedars

39.84

Set a malapic stone 16 8 x 6 ins. 11

Subdivision of T. 16 N. R. 5 W.

chains ins. in the ground for $\frac{1}{4}$ sec.
 cor.; marked $\frac{1}{4}$ on N face; from which
 A cedar 17 ins. diam. bears N 12° -7'W
 201 lbs. mark $\frac{1}{4}$ S 20° B.T. ✓
 A cedar 36 ins. diam. bears S 65° -44'W
 95 lbs. mark $\frac{1}{4}$ S 29° B.T. ✓

53.50 Cross Smith's Cañon, 1 ch. wide
 course S 45° W.
 ascend rough slope through
 dense brush

79.68 The cor. of sec's 19, 20, 29 and 30.
 Land mountainous.
 Soil, rocky, 4th rate.
 Undergrowth oak.
 Timber, cedar.
 Mountainous land and
 land covered with dense
 undergrowth, 79.68 chns.

+ N 89° -~~55~~⁵⁴'W, on a random line
 bet. sec's 19 and 30
 40.00 Set a temp. $\frac{1}{4}$ cor. point

Subdivision of Tp. 16 N. Rg. 5 W.

chains

90.30

Intersect the W. bdy. of the
 Tp. ~~8~~⁵ lks. ~~N~~^W of the cor. of
 sec's 19, 24, 25, 30, Tps 16 N,
 Rgs 5 & 6 W,

Thence I run

S $89^{\circ} - 52'$ E on a true line
 bet. sec's 19 and 30

over rolling mountains
 descend over malpais
 boulders

14.00

cross gulch, 10 lks. wide
 course N 70° E bears S 60° W

50.30

Set a malpais stone $18 \times 10 \times 8$ ins. 14
 ins. in the ground for $\frac{1}{4}$ sec.
 cor.; marked $\frac{1}{4}$ on N face; from which

A juniper 20 ins. diam. bears N 71° W
 192 lks. marked $\frac{1}{4}$ S 19 B T ✓

And raised a mound of
 stone 2 ft. base $1\frac{1}{2}$ ft. high
 N. of cor. Pits impracticable
 No other bearing available.

74.00

cross gulch, 50 lks. wide, course

Subdivision of Tp. 16 N. Rg. 5 W.

chains

S bears N.

ascend

90.30 The cor. of sec's 19, 20, 29 and 30.

Land mountainous.

Soil, rocky, 4th rate.

Timber scattering junipers -

Mountainous land, 90.30 chus.

No^o-03' W, bet. sec's 19 and 20.

Over rolling mountain top

40.00

Set a malpais stone 18 x 7 x 7 ins. 14
ins. in the ground for $\frac{1}{4}$ sec.
cor.; marked $\frac{1}{4}$ on W face, from whichA juniper 12 ins. diam. bears N 47° 10' E
27 $\frac{1}{2}$ lbs. marked $\frac{1}{4}$ S B T ✓ 20And raised a mound of
stone 2 ft. base 1 $\frac{1}{2}$ ft. high
W. of cor. Pits impracticable
No other bearing available.49.50 Cross gulch, 15 lbs wide, course
S.W. and ascend
over rough broken ground

Subdivision of Tp. 16 N., Rg. 5 W.

chains

80.00

Set a malpais 17 12 3 ins. 12
 ins. in the ground for cor. of
 secs. 17 18 19 and 20 marked with 3 notches
 on S and 5 notched E from which

A juniper 20 ins. dist. bears S 82°-23' W
150 fts. dist. marked T 16 N R 5 W

S 19 BT ✓

A juniper 14 ins. dist. bears N 49°-40' E
157 fts. dist. marked T 16 N R 5 W

S 17 BT ✓

and raised a mound of
 stones 2 ft. base, 1 1/2 ft. high
 W. of cor. Pits impracticable.
 No other bearings available.
 Land mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering juniper.
 Mountainous land 80.00 chains.

S 89°-56' E ✓ on a random line
 bet. secs 17 and 20.

40.00 Set a temp. 1/4 sec. point

Subdivision of Tp. 16 N. Rg. 5 W.

chains

- 79.85 Intersect a N. and S. line
5 Mts. S. of the cor. of sec's
16, 17, 20 and 21
thence I run
N 89° 58' W, on a true line
bet. sec's 17 and 20
ascend rough mountain
slope
- 22.00 Top, edge of See page Canyon
and over rolling mountains
- 39.925 Set a malapi stone 14×10 ins. ¹⁹
ins. in the ground for $\frac{1}{4}$ sec.
66f.; marked $\frac{1}{4}$ on N. face; from which
A cedar 7 ins. diam. bears S 61° 55' W
185 lbs. marked $\frac{1}{4}$ S 20 B T V
A juniper 40 ins. diam. bears N 4° 12' E
232 lbs. marked $\frac{1}{4}$ S 17 B T V
ascend
- 52.50 Top of ridge bears N 10° W and S 10° E
descend steep rough slope
- 65.50 Cross gulch, 20 lbs. wide
course S bears N.
ascend steep slope

Subdivision of Sp. 16 N. Rg. 5 W.

chains

79.00

Top of ridge bet N. + S.

79.85

The cor. of secs 17, 18, 19
and 20.

Land mountainous.

Soil, rocky, 4th rate.

Timber, scattering cedar & juniper

Mountainous land 79.85 chns.

November 20,

November 21st. At 8^h. 00^m.

A. M. L. M. V. I set off

✓ 34°-43½' on the lat. arc and
19°-42' S on the decl. arcand determine a true meridian
with the solar at the cor.

of secs 17, 18, 19 and 20

Thence I run

N 89°-52' W on a random
line bet. secs 18 and 19

40.00

Set a temp. ¼ point

Subdivision of Tp. 16 N. Rg. 5 W.

chains

90.05

Intersect the W. bdy. of
 Tp. 10½ lks. N. of Cor. of
 sec's 13-18-19 and 24, Tps. 16
 N. Rgs. 5 & 6 W.

Thence I run

S 89°-56' E, on a true line
 bet. sec's 18 and 19.

over rolling mountains and
 through dense brush

50.05 Set a ^{malpais} stone 14 x 10 x 8 ins. ¹⁰ 9 ins.

in the ground for ¼ sec. cor.
 marked ¼ on N. face and
 raised a mound of stone
 2 ft. base, ½ ft. high N. of
 cor. Pits impracticable.

No bearings available.

descend over rough ground
 scattering brush

80.00

cross gulch, course ~~8~~⁹ bears
 N, 20 lks. wide

Subdivision of Sp. 16 N. Rg. 5 W.
chains

ascend rocky slope
 90.05 The cor. of sec's 17, 18, 19 and 20.
 Land mountainous.
 Soil, rocky, 4th rate.
 Undergrowth, oak.
 Mountainous land and
 land covered with dense
 undergrowth, 90.05 chus.

No. 03' W, bet. sec's 17 and 18

ascend mountain

30.00 Top of mountain and
 over top

32.00 descend steep north slope

40.00 Set a malapi 18" x 14" x 5 ins. 12 ins.

in the ground for $\frac{1}{4}$ sec. cor.

Marked $\frac{1}{4}$ on W. face and
 raised a mound of stone
 2 ft. base $1\frac{1}{2}$ ft high W
 of cor. Pts impracticable

Subdivision of Tp. 16 N., Rg. 5 W.

chains.

No bearings available.
Descend steep slope

43.00 bottom

44.20 Center of Seepage Canyon,
2 chns wide, course S 75° E.
Ascend over rolling mountains

72.75 Cross gulch, 50 lks. wide
course S 40° W

80.00

Set a red maple one 18 x 14 x 6 ins. 14
ins. in the ground for cor. of
secs. 7, 8, 17 and 18 marked with 5 notches
on 2 and 4 notches on S edges; from which

A juniper 30 1/4 in. diam. bears N 74° 56' W
149 lks. dist. marked T 16 N R 5 W

S 7 BT V

A juniper 8 1/4 in. diam. bears S 29° 13' W
141 lks. dist. marked T 16 N R 5 W

S 18 BT V

And raised a mound of stone
2 ft. base 1 1/2 ft. high W. of
Cor. Pits impracticable
No other bearings available

Subdivision of Tp. 16 N. Rg. 5 W.

chains

Land mountainous.
Soil, rocky, 4th rate.
Timber, juniper.
Mountainous land, 80.00 chns

- S 89°-58' E, on a random
line bet. sec's 8 and 17
- 40.00 Set a temp. 1/4 point
- 80.18 The cor. of sec's 8, 9, 16 and 17
thence I run
N 89°-58' W, on a true line
bet. sec's 8 and 17
ascend rough slope of
mountain
- 9.70 top and descend
- 17.40 cross gulch, 10 lks wide, course
N 70° W. thence over point
through dense brush
- 25.00 Recross gulch, 15 lks. wide
course S. W. and ascend

Subdivision of Tp. 16 N. Rg. 5 W.

chains

40.09

steep, rough mountain slope
 Set Malpais Stone 12 10 6 ins. 8 ins.

in the ground for $\frac{1}{4}$ sec. ~~to~~ cor.
 marked $\frac{1}{4}$ on N. face and
 raise a mound of stone
 2 ft. base $1\frac{1}{2}$ ft. high to the
 N. of cor. Bits impracticable
 No bearings available.

continue ascent

54.00

Top of Ridge, spur of Seepage
 Mt., bears N and S.

descend steep and rocky slope

76.00

Cross gulch, 10 lbs. wide
 course S.W. bears N.E.

80.18

The cor. of seis 7, 8, 17, 18.

Land mountainous.

Soil, rocky, 4th rate.

Timber scattered junipers

Undergrowth, oak.

Subdivision of Twp. 16 N. Rg. 5 W.
chains.

Mountainous land, and
land covered with dense
undergrowth, 80.18 chns.
November 21, 1903.

November 22, At 8^{h.} 00^{m.} A.M.
l.m.t. I set off on $34^{\circ} 44\frac{1}{2}' N$
on lat. arc, and $19^{\circ} 55' S$ on
the decl. arc and determine
a true meridian with the
solar at the cor. of sec's
7-8, 17 and 18.

Thence I run

$N 89^{\circ} 56' W$, on a random
line bet. sec's 7 and 18

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

89.95 Intersect the W. bdy. of
Twp. 3 lks N. of Cor. of
sec's 7, 12, 13 and 18, Twp. 16 N.
Rgs. 5 & 6 W,