

1686 Book-1-

East and North Bdy.

&
Tract West & South Bdy.

Tract T. 15-N. R. 5-W.

4-671

BOOK 1686

FIELD NOTES

GENERAL LAND OFFICE.

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BOOK 1686

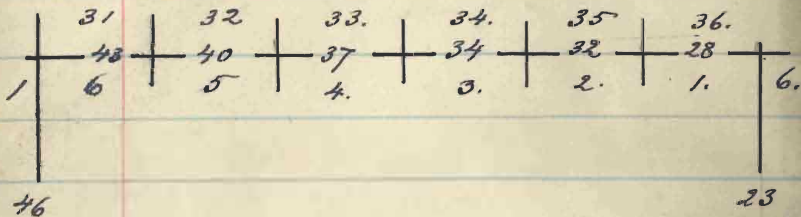
Field Notes
of the
Survey of the
Exterior Boundaries
of
Township No. 15 North
Range No. 5 West
of the
Gila and Salt River Base and
Meridian
in the
Territory of Arizona
as surveyed by
Philip Cortzen
U. S. Deputy Surveyor.
Under his Contract No. 43.
Dated, February 11, 1897
Survey Commenced May 24th 1897
Survey Completed, May 31st 1897

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BOOK 1686

Exterior Boundaries of T. 15 N. R. 5 W.

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BOOK 1686

T. 15 N. R. 5 W.

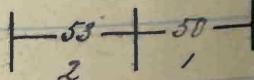
12. 19. 7.

13. 16. 18

24. 14 19.

25. 11 30.

35. 36. 9 31



East boundary of T. 15 N., R. 5 W.

Survey commenced May 24th 1897
and executed with a Young & Sons
light mountain transit No. 5609.
with a Smith's solar attachment.

The instrument was examined,
tested on the true meridian at
Tucson and found correct, and
was approved by the Surveyor
General for Arizona April 30th 1897
I begin at the cor. to Tps. 14 & 15 N.,
Rs. 4 & 5 W., which is a granite
stone 6 x 8 ins and 20 ins. above
ground firmly set marked with
6 notches N, E, S & W, and
mound of stone 2 1/2 ft base 2 ft
high alongside, found after
diligent search, as described by the Surveyor General
Latitude 34° 35' N.
Longitude 112° 40' W

East boundary P. 15 N

chains.

In order to test the solar apparatus, by comparing the results of observations on the sun, made during A.M. and P.M. hours, with a true meridian determined by observation on Polaris, I proceed as follows:

At 3^h. 20^m. P.M. local mean time, I set off 34°35' on the latitude arc; 20°56' N. on the declination arc, and mark the true meridian thus determined with the solar, by a cross on a stone firmly set in the ground 5 chs. N of the instrument

May 24th 1897.

May 25th: At 3^h 7.6^m a.m. local mean time I observe Polaris at

R. 5 W. Continued.

Chains

eastern elongation, in accordance with instructions in the manual, and mark the line thus determined, by a tack driven in a wooden plug set in the ground 5 chains north of my station.

At 6. a. m. ^{l m t} I lay off the Azimuth of Polaris $1^{\circ}29.9'$ to the West and mark the true meridian thus determined, by cutting a small groove in the stone set yesterday, on which the true meridian falls 0.13 ins. west of the mark determined by the solar.

At 8. ^h 15 ^m a. m. I set off $34^{\circ}35'$ on the latitude arc, $21^{\circ}2'$ N. on the decl. arc and mark the true meridian determined with the solar by a cross on the stone.

East boundary T. 15 N. R. 5 W. Cont'd.

Chains

already set 5 chs. N. of my station, this mark falls 0.3 ins west of the true meridian established by the Polaris observation.

The solar apparatus, by P.M. and A.M. observations, defines positions for true meridians, about 0'7" east, and 0'10" west of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8^h 15^m a.m. is N. 13° 48' W, the angle thus determined, reduced by the table of "Manual" page 100, gives the mean magnetic declination 13° 45' East.

East boundary T. 15. N. R. 5 W. Cont^d

chains

From the Cor to Tps. 14 and 15
N. - Rs 4 and 5 W. above described
I run

North bet secs 31 & 36

Through dense oak undergrowth
along East slope of ridge bearing
north and south.

- 15.60 Gulch 10 lks wide, course E.
16.00 Indications of mineral, croppings
bear E & W.
20.00 Gulch 30 lks wide, course S. E.
25.00 Descend from bank into wash.
26.00 Bottom of dry wash 4 lks wide
course E.
29.25 Dry wash 20 lks wide, course E.
37.20 Dry wash 10 lks wide, course E.
38.50 Ascend spur of ridge bearing E.
40.00 Set a granite stone 16 x 9 x 4 ins
10 ins in the ground for $\frac{1}{4}$ sec. cor.

East boundary T. 15 N

Chamo

- 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. Pits impracticable.
- 47.00 Top of spur from ridge bears E.
- 52.00 Commence descent.
- 55.20 Foot of ridge and gulch 20 lks wide, course NE.
- 57.00 Ascend.
- 60.00 Top of spur bears Easterly.
- 70.00 Begin to descend.
- 73.10 Foot of spur and dry wash 30 lks wide course S.W.
- 75.00 Ascend E. slope of Draper Peak
- 80.00 Set a granite stone 16X10X8 ins. 11 ins. in the ground for cor to Secs. 25, 30, 31 and 36 marked with 5 notches on N. and 1 notch on S. edges and raised a mound of stone 2 ft base $1\frac{1}{2}$ ft high, West

R. 5 W. Continued

Chains

of cor. Pits impracticable from which
 a juniper tree 14 ins. diam. bears N.
 $71\frac{3}{4}^{\circ}$ W. 130 lks. dist., marked F. 15.

N. R. 5 W. S. 25 B. T.

No other trees within limits.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, a few juniper trees.

Dense oak undergrowth 80 chs.

North bet. Secs 25 and 30.

Ascending along Easterly slope of
 Draper peak

11.00 Top of spur bears E. and W. and
 descend gradually.

18.70 Gulch 25 lks wide, course S.E.
 and ascend.

30.00 Top of peak 5 chs. N., and descend.

40.00 Set a granite stone 18 X 10 X 4 ins.

East boundary of T. 15 N.

Chain

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. Site impracticable. From which

A juniper tree 18 ins. diam. bears S. 78° W. 126 lks. dist., marked $\frac{1}{4}$ S.B.T.

A juniper tree 16 ins. diam. bears S. 70° E. 153 lks. dist., marked $\frac{1}{4}$ S.B.T.

- 62.50 Butch 35 lks wide, course NE.
- 69.90 Foot of hill, and dry wash 20 lks. wide, course NW.
- 70.00 Commence ascent.
- 72.50 Top of ridge bears E. and W., and begin to descend.
- 75.00 Foot of ridge and enter small valley, bears E + W.
- 79.50 Dry wash 90 lks wide, course NW.
- 80.00 Point for sec. cor. falls in dry wash.

R. 5 W. Continued

Chains

82.50 Set a granite stone $12 \times 8 \times 6$ ins.
 8. ins. in the ground for witness cor.
 to secs. 19. 24. 25 and 30 marked W.C.
 with 4 notches on N. and 2 notches
 on S. edges, and dig pits S.E. and
 S.W. of stone $18 \times 18 \times 12$ ins. and $5\frac{1}{2}$ ft
 dist. From which

A juniper tree 10 ins. diam. bears N
 $12\frac{1}{2}^\circ$ W. 246 lks. dist. marked W.C. T. 15.
 N. R. 5 W. S. 24 B.T.

An oak tree 7 ins. diam. bears N. $11\frac{1}{2}^\circ$
 E. 244 lks. dist. marked W.C. T. 15 N.
 R. 4 W. S. 19 B.T.

No other trees within limits.

Land mountainous, 75 chs

Soil, gravel, 2d & 3d rate.

Timber, scattering oak, juniper
 and cedar trees. Oak undergrowth
 75 chs.

East boundary T. 15 N.

Charno.

- North bet. Secs. 19 and 24
 across valley.
- 2.10 Road from Draper's ranch course
 E and W. and enter dense under-
 growth.
- 2.50 Witness Cor. to Secs. 19, 24, 25 and 30
- 3.40 Leave valley and ascend.
- 10.00 Top of ridge bears E and W.
- 22.00 Commence to descend.
- 23.00 Foot of ridge and dry wash 10 lbs.
 wide, course S E.
- 23.50 Ascend ridge.
- 30.00 Top of ridge bears Easterly & Westerly
- 36.00 Begin descent.
- 38.80 Foot of ridge and dry wash 10 lbs.
 wide, course W.
- 40.00 Set a granite stone $20 \times 6 \times 6$ ins.
 15 ins. in the ground, for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face, from
 which:

R. 5 W. Continued

Chains

- A juniper tree 18 ins. diam. bears N.
88°W. 93 lbs. dist. marked $\frac{1}{4}$ S.B.T.
- A juniper tree 24 ins. diam. bears S.
82 $\frac{1}{2}$ °E. 132 lbs. dist. marked $\frac{1}{4}$ S.B.T.
- 44.50 Dry wash 15 lbs wide course S.W.
- 46.00 Ascend East slope of ridge.
- 50.00 Top of ridge bears Easterly and
westerly.
- 52.00 Descend.
- 52.60 Foot of ridge and dry wash S.W.
- 53.00 Begin ascent.
- 62.00 Top of ridge bears Easterly and
westerly.
- 70.00 Descend gradually.
- 78.00 Foot of ridge.
- 80.00 Set a granite stone 18x10x6 ins.
12 ins. in the ground for cor. to sec.
13. 18. 19 and 24 marked with
3 notches N and S. on edges, and

East boundary T. 15 N.

Chains

dig pits S. E. and S. W. of cor. 18 x
18 x 12 ins 5 1/2 ft dist. - From which
A juniper tree 18 ins diam bears
S. 53 1/2° E. 270 lks. dist. marked
T. 15 N. R. 4 W. S. 19 B.T.

A juniper 40 ins diam. bears
S. 53° W. 271 lks. dist. marked T. 15
N. R. 5 W. S. 24. B.T.

No other trees within limits
Land, rolling and mountainous
Soil, gravel and rocky 3^d & 4th note
Timber, scattering juniper and
oak. Oak undergrowth.
Mountainous and dense under-
growth 77 cho.

May 25. 1897

North bet. secs 13 and 18
Through dense oak

R. 5 W. Continued

Chains.

- 17.10 Dry wash 30 lks wide, course W. and begin to ascend.
- 22.00 Top of mesa bears E & W.
- 36.00 Descend
- 36.50 In bottom gulch 18 ^{lks} ~~ms~~ wide course S E.
- 36.75 Ascend easterly slope of ridge
- 40.00 Set a granite stone 18 x 7 x 4 ins 12 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 3 ft. dist. and raised a mound of earth $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft high W. of cor.
- 43.00 Top of ridge bears S E and N W.
- 44.00 Descend along slope
- 47.50 Foot of ridge.
- 52.50 Gulch 3 lks wide course Easterly and ascend.

East boundary T. 15 N.

Chains

- 55.00 Top of ridge bears E. and W.
- 58.00 Descend.
- 58.50 Foot of ridge and gulch 3 lks wide,
course S E.
- 58.70 Ascend ridge
- 62.50 Top of ridge bears S E & N W.
- 69.00 Descend
- 69.50 At bottom, gulch 4 lks wide,
course N E.
- 70.00 Ascend along Easterly slope
- 71.50 Top of ridge bears S E and N W.
- 73.10 Descend
- 73.60 At bottom, gulch 4 lks wide course
S E.
- 74.00 Ascend ridge.
- 80.00 Set a granite stone 20 x 10 x 5
ins. 15 ins. in the ground for
cor. to sec. 7, 12, 13 and 18. marked
with 2 notches on N. and 4 notches

R. 5 W. Continued

chains.

on S. edges; and raised a mound of stone, 2 ft base, 1 1/2 ft. high W. of cor. Pits impracticable.

Land, rolling and mountainous.

Soil, gravelly, 3^d and 4th rate

Timber, a few juniper. Undergrowth oak.

Mountainous and dense undergrowth 80 chs.

North bet. Secs 7 and 12.

Ascending.

2.60 Top of ridge bears NW and SE.

5.00 Descend.

5.50 In bottom and gulch 4 lbs wide course Easterly.

6.00 Ascend along Easterly slope of high ridge.

11.00 Top of slope bears NW and SE.

East boundary T. 15 N.

Chains.

- 15.00 Descend along westerly slope
- 17.00 In bottom wash 3 lks wide course
Easterly.
- 18.00 Ascend Easterly slope of ridge
- 25.00 Top of slope trends S E & N W.
- 29.00 Descend
- 30.00 Foot of slope and gulch 5 lks.
wide course S E.
- 35.50 Gulch 8 lks wide, course E.
- 40.00 Set a granite stone 16 x 10 x 5 ins
11 ins. in the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face; dug pits 18 x
18 x 12 ins. N. and S. of stone 3 ft
dist; and raised a mound of
earth, $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high W. of
cor. From which
A juniper tree (three-forked) bears
S. $28\frac{1}{4}^{\circ}$ E. 43 lks dist. marked
 $\frac{1}{4}$ S. B. T.

R. 5 W. Continued

Chains

No other trees within limits.

42.35 Draper Creek, with running water
in it, 30 lks wide, flows E. here
and thence S.E.

42.60 Road from Prescott to H. Clay's
ranch, course N.W and S.E.

43.00 Enter a belt of dense oak and
juniper timber extending E & W.

45.00 Leave belt of dense timber.

47.00 Ascend ridge

57.00 Top of ridge bears Easterly and
westerly.

64.00 Descend from ridge.

64.50 In bottom gulch 5 lks wide course
S.E.

65.00 Begin to ascend

68.00 Top of ridge trends N.W and S.E.

71.00 Descend from ridge.

73.00 In bottom gulch 4 lks wide

East boundary T. 15 N.

Chains

course Easterly.

74.60 Sukh 5 lks wide, course E, thence
turns SE and runs at

75.50 crossing the line again W.

76.00 Begin to ascend

80.00 Set a granite stone $20 \times 10 \times 8$ ins.
15 ins. in the ground for cor. to
secs. 1, 6, 7 and 12 marked with
1 notch on N. and 5 notches on
S. edges; dig pits in Secs 1, 12 and
7. — $18 \times 18 \times 12$ ins. $5\frac{1}{2}$ ft dist
and raise a mound of earth 4 ft
base 2 ft high W. of cor. From which
A juniper tree 24 ins diam. bears
N. $41\frac{3}{4}^\circ$ E. 50 lks dist. marked
T. 15 N. R. 4 W. S. 6. B. F.

No other trees within limits
Land, mountainous.

Soil, gravelly and rocky $3\frac{d}{2} \frac{7}{4}$ th ra

R. 5 W. Continued

Chains

Timber, juniper and oak dense near middle of line, rest scattering
 Mountainous and dense oak undergrowth 80 chs

North bet secs. 1 and 6.

Ascending

- 2.00 Top of ridge bears E & W. Descend
 2.70. Dry wash at foot of ridge 10 lks wide, course Easterly turning S E.
 3.00 Ascend
 7.00 Top of ridge bears E & W.
 8.50 Begin descent
 9.00 Foot of ridge
 10.00 Ascend S W. slope
 14.00 Top of ridge bears N W and S E.
 20.00 Begin to descend over N E slope.
 21.60 Foot of slope, and ascend west slope.

East boundary T. 15.

Chains

- 23.50 Top of ridge bears E. and N., descends
- 27.00 Foot of ridge
- 30.00 Commence to ascend
- 33.00 Top of ridge bears Easterly and westerly.
- 36.00 Begin descent
- 38.00 Base of ridge and commence ascent of next ridge.
- 40.00 Set a granite stone 18x10x3 ins. 12 ins. in the ground for $\frac{1}{4}$ Sec. Cor marked $\frac{1}{4}$ on W. face; dig pits 18x18x12 ins. N. and S. of stone, 3 ft dist. and raise a mound of earth $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft high, W. of cor.
- 41.00 Top of ridge bears Easterly and Westerly.
- 46.50 Begin descent.
- 47.00 In bottom gulch 4 lks wide

N. R. 5 W. - Continued

Chains	
	course E.
48.00	Ascend along Easterly slope of ridge.
63.00	Top of ridge bears northeasterly and southwesterly.
67.00	Begin descent.
67.50	In bottom dry wash 3 lks wide course S.E.
68.00	Commence to ascend
80.00	marked by mound of stone $3\frac{1}{2}$ ft base 2 ft high on line.
90.00	Top of ridge bears E and W.
103.50	Begin descent
104.00	In bottom gulch 5 lks wide course N.W.
109.50	Begin to ascend.
110.50	Top of ridge bears E. and W.
115.00	Descend along northerly slope
120.00	Mound of stone $2\frac{1}{2}$ ft base

East boundary T. 15 N.

chains

- 1 1/2 ft high on line.
- 132.00 Bottom of slope and narrow valley trending NE.
- 132.50 Dry wash 20 lks wide course NE
- 133.60 Dry wash 20 lks wide course E.
- 137.00 Leave valley and ascend.
- 149.00 Top of ridge bears E. and W.
- 160.00 Mound of stone 3 ft base, 3 ft high on line
- 195.00 Descend gradually into valley.
- 197.89 To a point 8.85 chs. West of the cor. to Tps. 15 and 16 N. Rs. 4 and 5 W. which is a post (decayed) in mound of stone, ^{by the survey or General} as described. Reestablish the old cor. by setting a granite stone 20 x 12 x 4 ins 15 ins in the ground, for cor. of Tps 16 N. Ro. 4 & 5 W on E. boundary of Tp 16 N. R. 5 W

R. 5 W. Continued

Chains.

marked with 6 notches on N, E & W edges; and raised a mound of stone, 2 ft base, 1½ ft high W. of cor.

At 8.85 chs. W. of cor. just re-established I set a granite stone 18 x 10 x 4 ins 12 ins. in the ground for Closing. Cor. of Tps 15 N. R. 4 & 5 W. marked C.C. on S. with 6 grooves on S, E. and W. faces, dug pits 30 x 24 x 12 ins., crosswise on each line E. and W. 4 ft.; and S. of stone, 8 ft dist; and raised a mound of earth, 5 ft base, 2½ ft high, S. of cor. as per instructions of the Surveyor General.

Land, rolling and mountainous
Soil, gravelly and rocky 3^d and 4th rate.

North boundary T. 15

chains

Timber, a few juniper trees.

Land mountainous 195 chs.

May 26th 1897

May 27th 1897: At 8^h 30^m A.M. l. m. t., I set off $34^{\circ}41'$ on the lat. arc; $21^{\circ}22'$ N. on the decl. arc; and determine a true meridian with the solar, at the closing cor. of Tps 15 N. R. 4 & 5 W.

Thence I run

West bet. secs 1 and 36.

Over broken land

- 0.90 Running Creek 10 lks wide,
course N.E.
- 2.00 Ascend high and steep ridge.
- 21.50 Top bears N and S.
- 31.50 Descend over heavy malpais boulders.
- 31.70 Foot of ridge and gulch 10 lks wide

N. R. 5. W.

Chains

course N.E.

- 32.00 Ascend ridge
- 40.00 Set a granite stone 16x10x4 ins
11 ins in the ground for $\frac{1}{4}$ Sec Cor.
marked $\frac{1}{4}$ on N. face and raised
a mound of stone 2 ft base $1\frac{1}{2}$ ft
high, N. of cor. Pits impracticable
- 43.00 Top of ridge bears N. and S.
- 48.00 Descend and enter dense oak under
growth
- 49.50 In bottom, dry wash 5 lks wide
course N.E.
- 50.00 Commence ascent
- 51.00 Top of ridge bears N and S.
- 56.50 Begin to descend
- 57.00 In bottom dry wash 10 lks wide
course N.
- 58.00 Ascend ridge.
- 62.00 Top of ridge bears N and S.

North boundary T. 15 N.

Chains.

- 64.00 Begin to descend
- 64.50 In bottom dry wash 6 lks. wide
course N.
- 65.00 Ascend ridge
- 68.00 Top of ridge bears N and S.
- 69.50 Commence descent.
- 72.00 In bottom gulch 5 lks wide course
NE and ascend again. Leave
dense oak undergrowth bears $42^{\circ} \frac{1}{4} W$
- 75.05 Old road to Williamson valley bears
NE and S.W.
- 80.00 Set a quartz stone $18 \times 12 \times 5$ ins.
12 ins in the ground for cor. of
secs. 1, 2, 35 and 36 marked with
1 groove on E. and 5 grooves on
W. faces and raised a mound of
stone 2 ft base $1\frac{1}{2}$ ft high. W.
of cor. Pits impracticable.
From which

R. 5 W. Continued

Chains

A juniper tree 10 ins. diam. bears
 S. 38° E. 140 lbs. dist. marked T. 15 N.
 R. 5 W. S. 1. B. F.

A juniper tree 15 ins. diam. bears
 S. 82° W. 104 lbs. dist. marked T. 15 N.
 R. 5 W. Sec 2 B. F.

A juniper 10 ins. diam. bears N. 57½°
 W. 144 lbs. dist. marked T. 16 N. R. 5 W.
 Sec. 35 B. F.

A juniper tree. 20 ins. diam bears
 N. 27½° E. 187 lbs. dist. marked T.
 16 N. R. 5 W. Sec. 36 B. F.

Land, broken and mountainous
 Soil, stony and gravelly 3^d and
 4th rate.

Timber, scattering juniper trees
 Mountainous land 80 chs. dense
 oak and manzanita undergrowth
 24 chs.

North boundary T. 15 N.

Chains

- West bet Secs 2 and 35
Ascending slope of ridge.
- 2.50 Top of ridge bears N. and S.
- 13.00 Begin descent.
- 13.50 In bottom, gulch, 18 lks wide, course
N E.
- 14.00 Commence ascent of high ridge
- 25.00 Top of ridge bears N. and S. and
descend.
- 25.50 Enter dense undergrowth of oak
and manzanita, bears N and S.
- 33.00 Enter at foot of ridge valley
known as Diller fields.
- 40.00 Set a granite stone 16 x 8 x 7 ins.
11 ins. in the ground for $\frac{1}{4}$ Sec.
cor. marked $\frac{1}{4}$ on N. face; dig
pits 18 x 18 x 12 ins, E and W. of
stone 3 ft dist. and raise a mound
of earth $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft high N.

R. 5 W. continued

Chains

of cor.

- 45.00 Enter scattering juniper and oak timber.
- 61.50 Dry wash 6 lks. wide, course. S W.
- 72.20 Road from Prescott to Henry Clay's ranch bears NW. and SE.
- 72.70 A pinion 5 ins. diam. 10 lks. S. of T_p. line blazed and marked T_p. line.
- 80.00 Set a granite stone 18 x 8 x 7 ins. 12 ins. in the ground for cor. to Secs. 2, 3, 34 and 35 with 2 grooves on E and 4 grooves on W. faces, dig pits 18 x 18 x 12 ins. NE. and SE. of cor. 5 1/2 ft dist. and raise a mound of earth 4 ft base 2 ft high W. of cor.
From which
A juniper tree 14 ins. diam. bears N. 45° W. 5 lks. dist. marked T. 16. N.
R. 5 W. S. 34 B. F.

North boundary T. 15 N.

chains.

A juniper 12 ins. diam. bears S.
45° W. 4 lks. dist. marked T. 15 S.
R. 5 W. S. 3 B. E.

Land, mountainous and level.
Soil, gravelly and loam 1st and
3^d rate

Timber, scattering oak and juniper
Mountainous land, dense oak
and manzanita undergrowth
80.00 chs.

Went bet Secs. 3 and 34.

Through dense oak undergrowth
and scattering timber.

18.00 Enter ground covered with boulders
and leave Dillen fields.

23.50 Dry wash 20 lks wide, course S W.

28.60 Creek, running clear water, 20 lks
wide, Course S 23° W.

R. 5 W. Continued

Chains

- 30.00 A small enclosure. 10 chs. N. of line
- 40.00 A sandstone bluff 15 ft high. 6 ft. wide extending S. about 100 ft. The exact cor. point I mark with a cross and $\frac{1}{4}$ on N. side of it for $\frac{1}{4}$ Sec. cor. and raise a mound of stone 2 ft base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable
- 50.00 Enter valley. bears S. E.
- 57.70 Dry wash 10 fts wide, course S. S. E.
- 65.00 Leave valley and ascend
- 65.50 Enter scattering pine timber
- 70.00 High ridge 10 chs. N. of line.
- 73.00 Top of ascent bears N. and S. and begin to descend
- 75.50 Reach bottom. and ascend again
- 77.00 Top of slope.
- 80.00 Mark a granite boulder, in place, 24 x 24 ins. and 18 ins.

North boundary T. 15 N.

chains

above ground for cor to Secs. 3.
4. 33. and 34. at exact cor. point
with a cross (+) and 3 grooves
on E. and W. faces and raised
a mound of stone 2 ft base $1\frac{1}{2}$ ft
high. W. of cor. From which
a juniper tree 18 ins. diam.
bears S. $5\frac{3}{4}^{\circ}$ W. 172 lks. dist. marked
T. 15 N. R. 5 W. Sec 4 B. T.

A juniper tree 30 ins. diam.
bears N. 2° E. 94 lks. dist. marked
T. 16 N. R. 5 W. S. 34. B. T.

No other trees within limits.

Land, mountainous

Soil, gravelly and boulders; 3^d rate

Timber, juniper, pine, and
some oaks and oak undergrowth

Mountainous and dense under-
growth of oak 80 cho.

May 27 - 1897

R. 5 W. Continued

Chains.

West bet. Secs 4 and 33.

Across top of ridge

2.00 Begin to descend.

3.40 In bottom dry wash, 10 lks. wide,
course S.E.

4.00 Ascend rocky ridge.

6.50 Top of ridge.

6.80 Enter scattering juniper trees.

8.00 Descend through a cañon, course
westerly.

33.00 Dry wash 20 lks wide, course S.E.

40.00 Dry wash 20 lks wide, course S.W.
into which $\frac{1}{4}$ Sec. ^{cor.} point falls.41.00 Set a granite stone 18 x 18 x 6
ins. 12 ins. in the ground for $\frac{1}{4}$
Sec. witness cor. marked W.C.
 $\frac{1}{4}$ on N. face. From which
A juniper tree 18 ins. diam. bears
S. 20° E. 96 lks dist. marked

North boundary T. 15 N.

Chains

W. C. $\frac{1}{4}$ S. B. T.

A juniper 8 ins. diam. bears N. to W.
82 lks. dist. marked W. C. $\frac{1}{4}$ S. B. T.

59.50 Enter wash 100 lks. wide, course N. W.

60.50 Leave wash which bears N. W.:

66.00 Cutch 10 lks. wide, course N. W.
and ascend. ridge.

70.00 Top of ridge and descend.

74.00 Foot of ridge.

74.70 Dry wash 40 lks. wide, course S. W.

80.00 Set a granite stone 18 x 12 x 8 ins
12 ins. in the ground for cor.
to secs 4, 5, 32. and 33 marked
with 4 grooves on E. and 2 grooves
on W. faces, and raised a
mound of stone 2 ft base $1\frac{1}{2}$ ft
high. W. of cor. From which
A juniper tree 20 ins. diam.
bears S. $31\frac{1}{2}^{\circ}$ E. 237 lks. dist.

R. 5 W. Continued

Chains

marked T. 15 N. R. 5 W. S. 4 B. T.

An ash tree 8 ins. diam. bears
S. $14^{\circ}4'$ W. 195 lks. dist. marked

T. 15 N. R. 5 W. S. 5 B. T.

An oak tree 3 ins. diam. bears
N. $39^{\circ}34'$ W. $34^{\frac{1}{2}}$ lks. dist. marked

T. 16 N. R. 5 W. S. 32 B. T.

A juniper tree 8 ins. diam. bears
N. $72^{\circ}2'$ E. 19 lks. dist. marked

T. 16 N. R. 5 W. S. 33 B. T.

Land, mountainous.

Timber, piñon, oak and juniper
trees.Soil, rocky 4th rate.Mountainous and dense
oak and manzanita under-
growth 80 chs.

North boundary T. 15 N.

Chains.

- West bet. Secs 5 and 32.
- 5.10 Creek 35 lks wide, course NW thence turns W.
- 8.00 Cross same creek again 35 lks wide course SW.
- 8.50 W. H. Smith's house 8 chs. N. of line.
- 10.72 Wire fence bears N. and S.
- 11.00 Barn and enclosure bears 2 chs. N. of line.
- 11.50 Creek 100 lks wide, course S. W.
- 13.00 Commence to ascend
- 14.75 Road from W. H. Smith's ranch to Smith's field and enclosure in Sec. 5 of this Tp. Course N. E. + S. W.
- 16.00 Top of ridge bears N. and S.
- 17.00 Descend.
- 18.50 In bottom gulch 5 lks wide, course S. E. and ascend again
- 23.85 Cross gulch 5 lks wide, course S. E.

R. 5 W. Continued.

Chains

- 36.00 Top of ridge bears N. and S. and descend.
- 40.00. Set a granite stone 18 x 12 x 10 ins. 12 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. E. and W. of stone 3 ft dist. and raised a mound of earth 3 $\frac{1}{2}$ ft base, 1 $\frac{1}{2}$ ft high. N. of cor. From which
 A juniper tree 5 ins. diam. bears S. 55° W. 123 lks. dist. marked $\frac{1}{4}$ S. B. T.
- No other trees within limits.
- From this cor. Smith's field bears S. about $\frac{3}{4}$ mile. dist.
- 45.70 Enter valley which bears N W and S E.
- 45.80 Enter juniper and walnut timber
- 47.10 Running creek 20 lks wide, bears S E, thence S W.

North boundary T. 15 N.

Chains.

- 50.00 Leave juniper and walnut timber.
- 55.00 Leave valley and ascend.
- 57.40 Cross gulch 5 lks wide, course S.E.
- 70.00 Top of ridge bears N. and S. and descend.
- 80.00. Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground, for cor. of secs. 5, 6, 31, and 32 marked with 5 notches on E. and 1 notch on W. edges, and raised a mound of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable. From which a juniper tree 10 ins. diam. bears S 49 1/4° E. 47 lks dist. marked T. 15 N. R. 5 W. S. 5 B. F.

No other trees within limits.

Land, rolling and mountainous.

Soil, gravelly, sandy, and stones
1st, 3d, and 4th. rate.

R. 5 W. Continued

Chains

Timber, scattering juniper, oak,
and walnut timber, undergrowth
oak

Mountainous land 57-70 chs

West. bet Secs. 6 and 31.

Descending.

- 3.00 In bottom gulch 3 lks wide,
course S.E.
- 3.50 Ascend southerly slope of high mesa
- 10.50 Top bears N.W. $\frac{3}{4}$ S.E. and descend
- 11.00 In bottom gulch 70 lks wide,
course S.E.
- 12.50 Ascend E. slope of mesa
- 16.50 Enter dense oak grove extending
E and W.
- 19.00 Leave oak grove, bears E and W.
- 40.00 Set a malpais stone 17 x 8 x 6 ins.
12 ins. in the ground for $\frac{1}{4}$ Sec Cen

North boundary T. 15 N.

Chain

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

From which:

A juniper 8 ins. diam. bears N. $73\frac{3}{4}^{\circ}$
E. 185 lks dist. marked $\frac{1}{4}$ S. B. T.

A juniper 24 ins. diam. bears
S $69\frac{1}{2}^{\circ}$ E. 132 lks dist. marked $\frac{1}{4}$ S. B. T.

41.00 Top of ridge 500 ft high bears NW.
and SE. and descend.

65.00 Foot of ridge, and ascend again

72.82 A two forked cedar tree on line
16 ins. diam. I mark with 2 notches
on E. and W. sides.

74.00 Top of ridge bears N. and S.

78.50 Mark a malpais boulder in place
4 x 3 ft and 2 ft above ground
for cor. to Tps. 15 and 16 N., Rs. 5
& 6 W. with cross at exact cor. point and 6

R. 5 W. Continued

Charn

grooves on each side, and raised a mound
of stone $3\frac{1}{2}$ ft. base, 3 ft. high, S. of cor.

Pit impracticable. From which
A piñon tree 10 ins. diam. bears N.
 $64\frac{1}{2}^{\circ}$ E. 77 lks. dist. marked T. 16 N.

R. 5 W. S. 31 B. T.

A cedar tree 25 ins. diam. bears S.
 77° E. 157 lks. dist. marked T. 15 N.

R. 5 W. S. 6 B. T.

A cedar tree 8 ins. diam. bears S. 57°
W. 227 lks. dist. marked T. 15 N.

R. 6 W. S. 1 B. T.

A cedar tree 8 ins. diam. bears N.
 $42\frac{3}{4}^{\circ}$ W. 189 lks. dist. marked T. 16

N. R. 6 W. S. 36 B. T.

Land, mountainous.

Soil, stony, 3^d and 4th rates.

Timber, scattering cedar, juniper,
and piñon trees.

West boundary T. 15 N.

Chains

Mountainous land 78.50 chs.

May 28th 1897

May 29th 1897: At 7^h 45^m A.M.
 l. m. t. I set off $34^{\circ}41'$ on
 the latitude arc, $21^{\circ}51'N.$,
 on the declination arc, and
 determine a true meridian
 with the solar at the corner
 of Townships 15 and 16 North,
 Ranges 5 and 6 West.

Hence I run

South bet Secs. 1 and 6.

Over rocky mesa land
 and through scattering
 juniper and cedar
 trees.

37.89 A mound of stone 5ft

- ains
- Base, 2 ft high.
- 54.00 Begin to ascend
- 73.00 Top of mesa bears N.W. and S.E.,
and descend along steep slope.
- 88.00 Descent becomes gradual
- 117.89 Mound of stone 2 ft base $1\frac{1}{2}$ ft high
and enter dense oak and manzanita
its undergrowth, bears E. and W.
- 133.00 Abrupt descent to canon.
- 133.10 In bottom creek 40 yds. wide course
S.W. thence turns S.E. and enter
sycamore and willow timber.
- 136.00 Leave sycamore and willow trees
- 142.70 Gulch 10 yds. wide, course westerly.
- 143.20 Gulch 10 yds. wide, course westerly
- 149.80 Gulch 40 yds wide, course west.
- 155.50 Enter sycamore and willow timber
- 156.50 Creek with running water 30 yds
wide, course S.E.

West boundary T. 15 N.

- 157.00 Leave sycamore and willow trees, and ascend along W. bank of cañon through dense undergrowth of oak.
- 157.89 Set a malpais stone $18 \times 12 \times 7$ 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. Pits impracticable. From which an ash tree 5 ins. diam bears S. $66\frac{1}{2}^{\circ}$ E. 68 lbs diet marked $\frac{1}{4}$ S. B. T. Another ash tree 10 ins. diam bears N. $31\frac{1}{2}^{\circ}$ E. 66 lbs diet. marked $\frac{1}{4}$ S. B. T.
- 181.00 Reenter cañon through sycamore and willows
- 181.50 Creek 20 lbs. wide, course S. W.
- 191.60 Ascend along E. bank of cañon through dense oak undergrowth.
- 197.00 Leave sycamore and willows.
- 197.89 Cor. point on steep bluff.

R. 5 W. Continued.

201.00

Set a malpais stone 18x8x8 ins
12 ins. in the ground for Witness
Corner to Seco. 1. 6. 7 and 12 marked
W.C with 1 notch on N. and 5 notches
on S. edges and raised a mound
of stone 3ft base 2ft high W. of
cor. From which

A sycamore 4 ins. diam., bears
S. 20° W. 110 lbs. dist. marked W.C.
T. 15 N. R. 6 W. S. 12 B. F.

No other trees within limits.

Land, mountainous.

Soil, broken and rocky 3rd and 4th rate

Timber, scattering cedar, juniper,
sycamore, willow and ash trees

Mountainous and dense oak
undergrowth 80 chs.

143.89

The remainder of this boundary

South boundary T. 15 N.

chains.

runs over numerous, almost impassable cañons, wherefore I discontinued at this point.

Note. Tps. 15 N. R. 6 W. should not be subdivided as the land is too much broken up and cut by deep cañons.

May 29th 1897.

May 31st 1897: At 7^h 5^m A.M. 2 m. t. I set off $34^{\circ}35'$ on the lat. arc, 22° N., on decl. arc; and determine a true meridian with the solar, at the cor. of Tps. 14 and 15 N. Rs. 4 and 5 W.

Thence I run
West bet Secs. 1 and 36.

Ascending steep ridge through dense oak undergrowth.

R. 5 W.

Chains

- 18.00 Top of ridge bears N. and S.
- 21.00 Begin to descend
- 35.00 Gulch 60 kts wide, course N W.
- 40.00 Mark a granite boulder in place
2 x 2 ft and 1 1/2 ft above ground
for 1/4 Sec. cor. with + at exact
cor. point 1/4 on N. face, and
raised a mound of stone 2 ft base
1 1/2 ft high. W. of cor. Pits impract-
icable
- 41.70 Gulch 30 kts wide, course N W.
- 46.70 Gulch 50 kts. wide, course N W.
thence turns W.
- 56.00 In bottom enter valley bearing N
and S.
- 57.70 Dry wash 40 kts. wide, course S W.
- 60.30 Dry wash 8 kts wide, course S W.
- 67.50 Leave valley and ascend over
boulders.

South boundary T. 15 N.

Chains.

- 74.00 Top of ridge bears N. and S.
 78.00 Leave boulders and descend.
 80.00 Mark a granite boulder in place
 3 x 2 ft and 8 ins. above ground
 for cor. to Secs 1, 2, 35 and 36. with
 + at exact cor. point and 1 notch
 on E. and 5 grooves on W. sides,
 and raised a mound of stone
 3 ft base 2 ft high West of cor.
 Sets impracticable.

From which

A juniper tree 15 ins. diam.
 bears S. 27° E. 78 lks. dist. marked
 T. 14 N. R. 5 W. S. 1 B.F.

A juniper tree 10 ins. diam. bears
 S. 85½° W. 80 lks. dist. marked T.
 14 N. R. 5 W. S. 2 B.F.

No other trees within limits.

Land, mountainous.

R. 5 W. Continued

Chamo

Soil, gravelly and stony, 2^d, 3^d and 4th rate.

Timber, scattering juniper trees.

Mountainous land and dense oak
undergrowth 80 chs.

West bet. Secs. 2 and 35.

Descending through dense undergrowth

9.15 In bottom enter dry wash, 20 yds. wide,
course S.W. thence turn W.

10.60 Edge of same wash, course S.W.

13.00 Begin to ascend.

18.00 Top of ridge bears N. and S.; thence descend

21.00 Foot of ridge.

21.50 Commence to ascend again.

30.00 Top of ridge, bears N. and S.

40.00 Set a granite stone 18x8x6 ins. 12 ins.

in the ground for $\frac{1}{4}$ Sec. cor. marked $\frac{1}{4}$
on N. face, and raised a mound of stone
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits

South boundary of T. 15

Chain

impracticable. From which
 A juniper tree 30 ins. diam bears S. 35°
 W. 167 lks. dist., marked $\frac{1}{4}$ S. B. T.
 No other trees within limits.

44.00 Begin to descend.

45.00 In bottom gulch 3 lks wide, course N.W.

46.00 Commence to ascend.

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

71.00 In bottom cross gulch 40 lks. wide,
 course N.W., thence turns W.

72.00 Ascend ridge over heavy boulders.

80.00 Mark a granite boulder in place $2\frac{1}{2} \times 2\frac{1}{2}$
 ft., and 1 ft. above ground, for cor. to
 secs. 2, 3, 34, and 35 at exact cor. point
 with + and 2 grooves on E., and 4 grooves
 on W. face, and raised a mound of
 stone 3 ft. base, 2 ft. high, W. of cor.
 Pits impracticable. From which
 An oak tree 5 ins. diam. bears S $13\frac{1}{4}^{\circ}$

N. - R. 5. W. Continued

Chamo

E. 32½ lks. dist. marked T. 14 N. R. 5 W.

S. 2. B. T.

A juniper tree 7 ins. diam. bears S. 37½°

W. 150 lks. dist. marked T. 14 N. R. 5 W.

S. 3 B. T.

No other trees within limits.

Land, mountainous.

Soil, boulders, 4th rate.

Timber, scattering juniper and oak.

Mountainous land, and dense oak
undergrowth 80 cho.

Note: I have to discontinue this
line on account of the rough and
broken country covered with heavy
boulders and cut by numerous
and almost impassable cañons.

May 31st 1897.

note.

Prelim. oaths. Book 1. S. 7 N. hdy. T. 17 S. R. 25 E.

Final oaths Sub. Book 4, T. 17 S. R. 25 E.

Exterior boundaries T. 15 N. R. 5 W. E.

Boundaries of T. 15 N. R. 5 W.

Latitudes, Departures and closing error.

Line designated	True Bearing	Distance Chs.	Latitudes		Departures	
			N. Chs.	S. Chs.	E. Chs.	W. Chs.
E. bdy of T. 15 N. R. 5 W.	N.	597.89	597.89			
N. bdy T. 15 N. R. 5 W.	W.	478.50				478.50
W. bdy. T. 15 N. R. 5 W.	S	197.89		197.89		
S. bdy. Secs 3, 4, 5. T. 15 N. R. 5 W.	E	240.00			240.00	
S. bdy Sec. 6. T. 15 N. R. 5 W.	N 89° 53' E	78.60	0.16		78.60	
W. bdy. Secs 11, 14, 23, 26, 28, 35 T. 15 N. R. 5 W.	S	400.00		400.00		
S. bdy of T. 15 N. R. 5 W.	E	160.00			160.00	
Convergency						0.5
Totals			598.05	597.89	478.60	479.0
			597.89			478.60

Error in latitude 0.16 Error in dep.

This township is rough and mountainous and the westerly part cut up by nearly impassable canons. The township is well watered and timbered; and contains small strips of fertile land in the North and East parts.

Philip Cortes
U. S. Deputy Surveyor

BOOK 1686

For Surveyor General's
Certificate of Approval
of Field Notes see
close of subdivisions
of T 17 S. R. 25 E.