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BOOK 2184 2184

# FIELD NOTES

OF THE SURVEY OF THE

2184

2184

The Private Claim Lines and Resurvey of the Subdivision Lines of

Tps. 17 N. Rg. I W. S. 11 E.

2184

Of the Gila and Salt River Meridian,

Territory of Arizona

AS SURVEYED BY

Alfred N. Oliver, United States Deputy Surveyor,

Under his Contract No. 153, dated November 19th. 1909., 190

Survey commenced May 14th., 1909., 190

Survey completed June 1st., 1909., 190

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1A

NAMES AND DUTIES OF ASSISTANTS.

Will W. Shawk Chainman

Archie Johnston Chainman

W. R. Johnston Axman

R. R. Lane Flagman

## Disposals and Valid Entries in T. 17 N., R. 1 W.

Description	Area	Kind	No.	Date	Name
Frac. N $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 1	80.13	Pre.	250	Aug. 13, 1885	Frank Krell (Pat.)
N $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ & SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3	160.00	Pre.	318	Nov. 6, 1886	Farrall Tiernan (Pat.)
SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3 & S $\frac{1}{2}$ NE $\frac{1}{4}$ &NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 4	160.00	Hd. F.C.	1729 256	Jan. 7, 1903 Apr. 15, 1908	Charles Burkes
SW $\frac{1}{4}$ SE $\frac{1}{4}$ & frac. S $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 7	111.55	HD. F.C.	421 199	Mar. 25, 1886 Apr. 14, 1890	Henry J. Peters
S $\frac{1}{2}$ NW $\frac{1}{4}$ &N $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 8	160.00	Hd. F.C.	306 198	Sep. 6, 1884 Apr. 14, 1890	Thomas F. Peters
N $\frac{1}{2}$ NE $\frac{1}{4}$ &SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 8 and NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 9	160.00	Hd. F.C.	505 349	Apr. 25, 1888 Aug. 14, 1894	John T. Nelson

WE HEREBY CERTIFY that the above is a correct, full, and true list of all disposals and valid entries in T. 17 N., R. 1 W., G. & S. R. B. & M., Arizona, as shown by the records of this office.

*Frank H. Parker*  
-----  
Register.

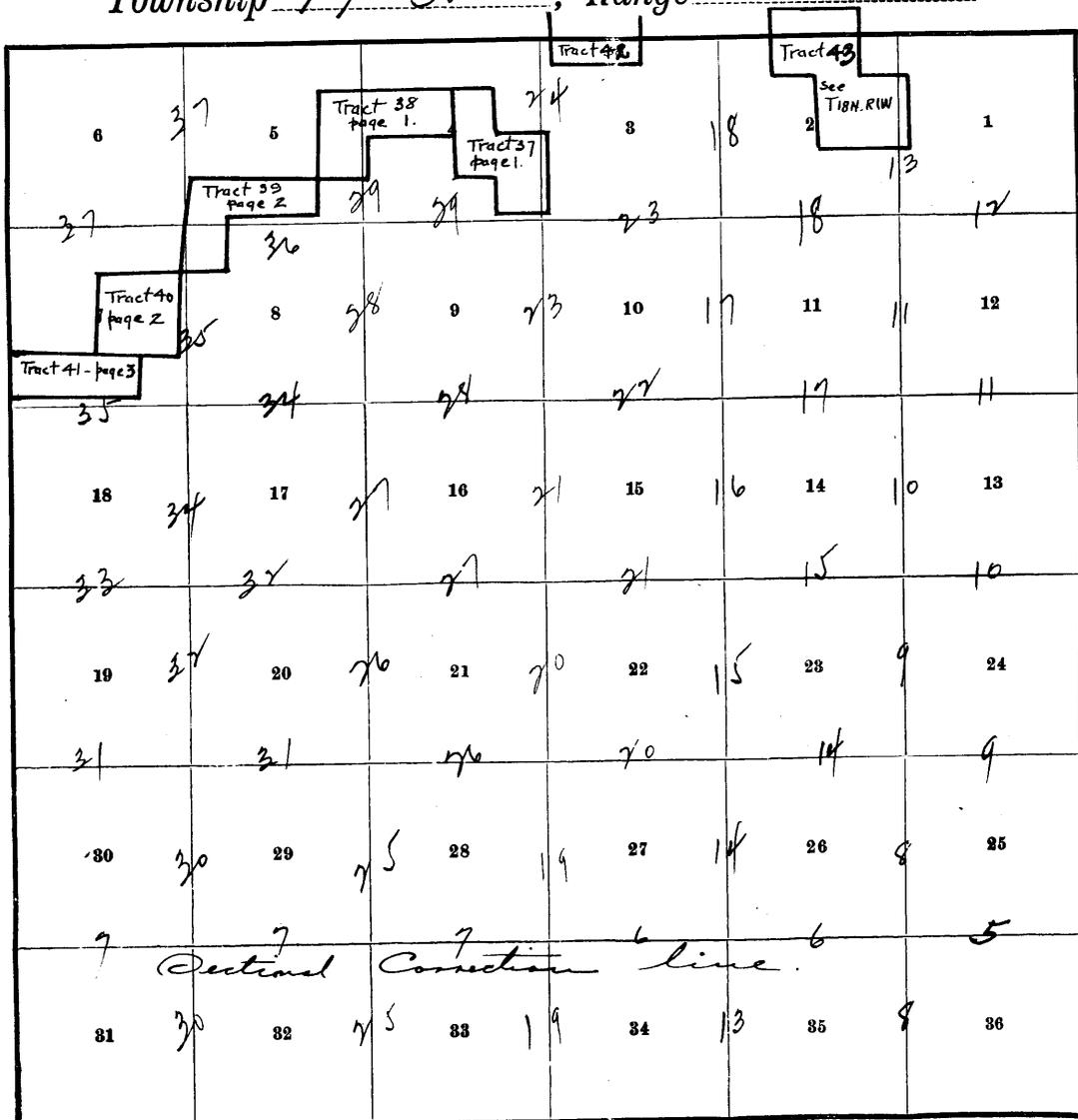
*Chas E Arnold*  
-----  
Receiver.

PHOENIX LAND OFFICE,  
Phoenix, Arizona,

*Dec 1, 1908*

BOOK 2184  
INDEX DIAGRAM.

Township 17 N., Range 1 W.



Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Will W. Shawk and Archie Johnston  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Private Claim Lines and resurvey of the Subdivision Lines of Tps. 17, 18, 19 and 20 N.

Will W. Shawk Chainman.  
Archie Johnston Chainman.

Subscribed and sworn to before me this 14th.  
day of May, 1909., 190



Alfred N. Oliver  
U.S. Deputy Surveyor

WE, \_\_\_\_\_ and \_\_\_\_\_  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_

\_\_\_\_\_, Moundman.  
\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190



Alfred N.

~~WE~~, I, W. R. Johnston and \_\_\_\_\_  
do solemnly swear that ~~we~~ will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given ~~me~~, to the best of ~~my~~ skill and ability, in the survey of the Private Claim Lines and resurvey of the Subdivision Lines of Tps. 17, 18, 19 and 20 N.

W. R. Johnston, Axman.  
\_\_\_\_\_, Axman.

Subscribed and sworn to before me this 14th.  
day of May, 1909., 190



Alfred N. Oliver  
U.S. Deputy Surveyor

I, R. R. Lane, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Private Claim Lines and resurvey of the Subdivision Lines of Tps. 17, 18, 19, and 20 N.

R. R. Lane, Flagman.

Subscribed and sworn to before me this 14th.  
day of May, 1909., 190



Alfred N. Oliver  
U.S. Deputy Surveyor

Metes and Bounds Survey in Township 17 North, Range 1 West.

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 Tract 37-Pre. 318, Nov. 1886; Originally described as  
 N $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$  & SE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 3, T17N, R1W, Patented.  
 May 14: At 7 h. 00m. a.m., l.m.t., I set off 34° 54 1/2' N. on the lat. arc; 18° 35' N. on the decl. arc; and determine a meridian with the solar at cor. No. 1 of tract No. 37 which is a limestone 18 x 10 x 5 ins. set 12 ins. in the ground, for cor. No. 1, marked 1-37 on S. W. face.  
 Thence I run  
 S. 89° 26' W.  
 20.20 Cor. No. 2, set a granite stone 16 x 12 x 5 ins. 11 ins. in the ground for cor. No. 2 tract No. 37, also cor. No. 1 of tract No. 38, marked 2-37 on S. E. and 1-38 on S. W. faces.  
 Thence I run  
 S. 2° 47' W.  
 38.66 Cor. No. 3, Set a limestone 18 x 10 x 10 ins. 12 ins. in the ground for cor. No. 3, marked 3-37 on N. E. face.  
 Thence I run  
 N. 89° 46' E.  
 20.32 Cor. No. 4, set a limestone 18 x 8 x 5 ins. 12 ins. in the ground for cor. No. 4, marked 4-37 on N. E. face.  
 Thence I run  
 S. 2° 36' W.  
 19.38 Cor. No. 5, set a granite stone 16 x 10 x 8 ins. 11 ins. in the ground for cor. No. 5, marked 5-37 on N. E. face.  
 Thence I run S. 89° 45' E.  
 20.38 Old cor. of secs. 3, 4, 9 & 10, which I destroy.  
 20.38 Cor. No. 6, set a sandstone 36 x 12 x 8 ins. 27 ins. in the ground for cor. No. 6, marked 6-37 on N. W. face.  
 Thence I run  
 N. 2° 28' E.  
 38.92 The old  $\frac{1}{4}$  sec. cor. bet. secs. 3 and 4 which I destroy and in the same place set a limestone 16 x 10 x 10 ins. 11 ins. in the ground for cor. No. 7, marked 7-37 on S. W. face.  
 Thence I run  
 S. 89° 48' W.  
 20.27 Cor. No. 8, set a limestone 20 x 10 x 5 ins. 15 ins. in the ground for cor. No. 8, marked 8-37 on S. W. face.  
 Thence I run  
 N. 2° 36' E.  
 19.47 Cor. No. 1, place of beginning.  
 May 14: At this cor. I set off 18° 37' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 54 1/2' N.

Area, 157.04 Acres.

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 Tract 38-Hd. 1729, Jan. 7, 1903; F.C. 256, Apr. 15, 1908; originally desc. as SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3, S $\frac{1}{2}$ NE $\frac{1}{4}$ &NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 4, T17N, R1W.

I commence at cor. No. 1, which is also cor. No. 2 of tract No. 37 which has been previously described,  
 Thence I run  
 N. 89° 04' W.  
 60.84 Cor. No. 2, set a limestone 18 x 8 x 8 ins. 12 ins. in the ground for cor. No. 2, marked 2-38 on S. E. face.  
 Thence I run.  
 S. 2° 45' W.  
 39.48 Cor. No. 3, also cor. No. 1 of tract No. 39, set a malpais stone 18 x 9 x 5 ins. 12 ins. in the ground for cor. No. 3 of tract No. 38 and cor. No. 1 of tract No. 39, marked 1-39 on S. W. face and 3-38 on N. E. face.  
 Thence I run  
 S. 88° 44' E.  
 20.23 Cor. No. 4, set a limestone 16 x 9 x 7 ins. 11 ins. in the ground for cor. No. 4, marked 4-38 on N. W. face.  
 Thence I run  
 N. 3° 08' E. find old  $\frac{1}{4}$  cor. of secs. 4 & 5 at  
 19.14 Cor. No. 5, set a line stone 16 x 12 x 10 ins. 11 ins. in the ground for cor. No. 5, marked 5-38 on N. W. face.  
 Thence I run  
 N. 89° 48' E.  
 40.52 Cor. No. 6, set a limestone 18 x 8 x 5 ins. 12 ins. in the ground for cor. No. 6, marked 6-38 on N. W. face.

Metes and Bounds Survey in Tp. 17 N. Rg. 1 W.

chains

19.36 Thence I run  
N. 2° 47' E.  
Cor. No. 1, place of beginning.  
Area, 159.84 Acres. May 14, 1909.

Tract 39-Hd. 505, Apr. 25, 1888; F.C. 349, Aug. 14, 1894; originally described as N $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$  Sec. 8 and NW $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 9, T17N. R1W.

I commence at cor. No. 1, the N. E. cor., which is also cor. No. 3 of tract No. 38, which has been previously described.

At this cor., at 7h. 00m. a.m., l.m.t., May 15, I set off 34° 54' N. on the lat. arc: 18° 49' 1/2' N. on the decl. arc; and determine a meridian with the solar.

60.72 Thence I run  
N. 88° 44' W.  
Cor. No. 2, set a limestone 18 x 6 x 5 ins. 12 ins. in the ground for cor. No. 2, marked 2-39 on S. E. face.

21.11 Thence I run  
S. 1° 35' W.  
The old cor. of secs. 5, 6, 7 and 8. *Note: For new cor. of secs 5-6-7-8 at same point see page 35.*

19.86 Thence I run  
S. 0° 54' W.  
Cor. No. 3, also cor. No. 1 of tract No. 40, set a granite stone 20 x 8 x 7 ins. 15 ins. in the ground for cor. No. 3 of tract No. 39 and cor. No. 1 of tract No. 40, marked 1-40 on S. W. and 3-39 on N. E. faces.

20.13 Thence I run  
N. 89° 48' E.  
Cor. No. 4, set a limestone 18 x 10 x 4 ins. 12 ins. in the ground for cor. No. 4, marked 4-39 on N. E. face.

19.82 Thence I run  
N. 0° 54' E.  
Cor. No. 5, set a limestone 18 x 10 x 4 ins. 12 ins. in the ground for cor. No. 5, marked 5-39 on N. W. face.

40.22 Thence I run  
N. 89° 55' E.  
Cor. No. 6, set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. No. 6, marked 6-39 on N. W. face.

19.64 Thence I run  
N. 2° 45' E.  
Cor. No. 1, place of beginning.  
May 15: at this cor. I set off 18° 51' 1/2' N. on the decl. arc. and observe the sun on the meridian at noon the resulting lat. is 34° 54' N.

Area, 163.17 Acres.

Tract 40-Hd. 306, Sep. 6, 1884; E.C. 198, Apr. 14, 1890; Originally described as S $\frac{1}{2}$ NW $\frac{1}{4}$  and N $\frac{1}{2}$ SW $\frac{1}{4}$  Sec. 8, T17N. R1W.

I commence at cor. No. 1 which is also cor. No. 3 of tract No. 39 and which has been previously described,

41.04 Thence I run  
N. 86° 09' W.  
Cor. No. 2, set a malpais stone 16 x 14 x 10 ins. 11 ins. in the ground for cor. No. 2, marked 2-40 on S. E. face.

39.57 Thence I run  
S. 0° 06' E.  
Cor. No. 3, set a granite stone 18 x 7 x 5 ins. 12 ins. in the ground for cor. No. 3, marked 3-40 on N. E. face.

40.34 Thence I run  
S. 85° 57' E.  
Cor. No. 4, set a limestone 20 x 12 x 8 ins. 15 ins. in the ground for cor. No. 4, marked 4-40 on N. W. face.

39.72 Thence I run  
N. 0° 54' E.  
Cor. No. 1., place of beginning.

Area, 161.32 Acres.

## Metse and Bounds Survey in Tp..17 N. Rg. 1 W.

chains

Tract 41-Hd.421, Mar.25,1886;E.C.199, Apr.14,1890;originally described as SW $\frac{1}{4}$ SE $\frac{1}{4}$  and Frac.S $\frac{1}{2}$ SW $\frac{1}{4}$  Sec.7,T17N.R1W.

I commence at cor. No. 1 which is a malpais 20 x 15 x 6 ins. set 15 ins. in the ground for cor. No. 1, marked 1-41 on S. W. face.

Thence I run

N. 85° 57' W.

20.17 Cor. No. 3 of tract No. 40.

58.30 Cor. No. 2, set a limestone 18 x 8 x 7 ins. 12 ins. in the ground for cor. No. 2 marked 2-41 on S. E. face,

Thence I run

S. 1° 06' E.

19.45 The cor. of sects 12 & 13, on the W. bdy. of the township.

Thence I run

S. 85° 40' E.

57.75 Cor. No. 4, set a granite 18 x 8 x 5 ins. 12 ins. in the ground for Cor., No. 4, marked 4-41 on N. W. face.

Thence I run

N. 0° 24' E.

19.76 Cor. No. 1, place of beginning.

May 15, 1909.

Area, 113.76 Acres.

Subdivision of Tp. 17 N. Rg. 1 W.

Chains.

Survey commenced May 20, 1909, and executed with a Young and Sons light mountain transit No. 7532, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Phoenix, found correct and was approved by the surveyor general for Arizona

I examine the adjustments of the transit and find them correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m., and p.m., hours, with a meridian determined by observations on Polaris, I proceed as follows;

At the cor. of secs. 25, 30, 31, and 36 on the Gila and Salt River Meridian Tp 17 N. Rgs. 1 E. and 1 W. which I established May 16, 1909; latitude  $34^{\circ} 50' 09''$  N., longitude  $112^{\circ} 18' 24''$  W.; I set off  $34^{\circ} 50' N.$  on the lat. arc;  $20^{\circ} 04' N.$  on the decl. arc; and, at 6h. 00m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of my station.

May 20, 1909.

May 21; At 3h. 37m. a.m., by my watch which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station.

At 5h. 30m. a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ} 26'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set May 20, on which the meridian coincides with the mark determined by the solar.

At 6h. 00m. a.m., l.m.t., I set off  $34^{\circ} 50' N.$  on the lat. arc;  $20^{\circ} 10' N.$  on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station: this mark coincides with the meridian established by the Polaris observation.

The solar apparatus, by p.m., and a.m. observations, defines positions for meridians which coincide with the meridian established by the Polaris observations: therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 6h.05m. a.m., is  $14^{\circ} 45' W.$ ; the angle thus determined gives the mag. decl.  $14^{\circ} 45' E.$

I commence at the cor. of secs, 25, 30, 31 and 36 on the E. bdy. of the Tp., previously described

Thence I run

West on a sectional correction line bet. secs. 25 and 36.

Along rolling N. slope of mountain, through heavy timber and dense brush.

- 8.50 Wash, course North, ascend E. slope.
- 15.00 Ridge bears N. and S. and descend.
- 21.00 Cross drain 5 lks. wide course N. and ascend
- 28.00 Ridge bears N. and S. and descend.
- 34.00 Cross darin 5 lks. wide course N. and ascend.
- 40.00 Set a limestone 16 x 10 x 4 ins. 11 ins. in the ground for  $\frac{1}{4}$  sec, cor., marked  $09\frac{1}{4}$  on N. face; from which
  - A pinon 12 ins. diam., bears S.  $8\frac{1}{2}^{\circ} W.$  48 lks. dist., marked  $09\frac{1}{4}S36BT$
  - A pinon 4 ins. diam., bears N.  $45^{\circ} E.$  75 lks. dist. marked  $09\frac{1}{4}S25BT.$
- 49.00 Ridge bears N. and S. and descend steep W. slope covered with loose rocks.

## Subdivision of Tp. 17 N. Rg. L W.

Chains.	
65.00	Timber becomes scattering and leave brush.
68.00	Cross drain 10 lks. wide course N. and ascend rough E. slope covered with loose rocks.
80.00	Set a malpais stone 18 x 6 x 6 ins. 12 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked 09 on N. E. face, with 1 notch on S. and E. edges; and raise a mound of stone 2 ft. base 1 ½ ft. high W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. Timber, cedar and pinon. Underbrush, oak and cedar. Mountainous land, land heavily timbered and covered with dense brush and loose rocks, exceptionally difficult to survey, 80.00 chs.
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	West on a sectional correction line bet, secs. 26 and 35. Ascending rough E. slope covered with loose rocks.
4.00	Change to S. slope.
13.00	Descend S. W. slope.
27.45	Cross road bears S. E. and N. W.
32.75	Cross wash 10 lks. wide course S. W. and ascend.
38.00	Ridge bears N. E. and S. W. and over rolling land, desc'ng.
40.00	Set a malpais stone 18 x 6 x 5 ins. 12 ins. in the ground for ¼ sec. cor. marked 09¼ on N. face; and raise a mound of stone 2 ft. base 1 ½ ft. high, N. of cor. Pits impracticable.
53.30	Cross wash 10 lks. wide course S. W.
56.80	Cross road bears N. E. and S. W.
60.30	Cross wash 10 lks. wide course S.
80.00	Set a granite stone 18 x 7 x 6 ins. 12 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked 09 on N. E. face, with 2 notches on E. and 1 notch on S. edges; dig pits 18 x 18 x 12 ins. in each sec. 5 ½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, mountainous and level. Soil, rocky and loamy; 2nd. and 4th. rate. No timber. Mountainous land covered with loose rocks, exceptionally difficult to survey, 40,00 chs.
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	West on a sectional correction line bet. secs. 27 and 34. Ascending E. slope of mountain covered with loose rocks.
8.00	Cross wash 5 lks. wide course S.
24.00	Top of high point and descend.
33.75	Cross wash 10 lks. wide course S.
35.30	Cross wash 10 lks. wide course S. E. and ascend.
40.00	Set a malpais stone 18 x 8 x 4 ins. 12 ins. in the ground for ¼ sec. cor., marked 09¼ on N. face; and raise a mound of stone 2 ft. base 1 ½ ft. high N. of cor. pits impracticable.
52.00	Top high peak and descend S. W. slope.
69.80	Cross wash 10 lks. wide course N. W. and along N. W. slope
80.00	Set a malpais 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 27, 28, 33 and 34, marked 09 on N.E. face, with 1 notch on S. and 3 notches on E. edges; from which A cedar 10 ins. diam., bears S. 46° W. 200 lks. dist., marked 09T17NR1WS33BT. A cedar 18 ins. diam., bears N. 69° W. 197 lks. dist., marked 09T17NR1WS28BT. No other trees available. Raise a mound of stone 2 ft. base 1 ½ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. No timber. Mountainous land covered with loose rocks, exceptionally

Subdivision of Tp 17 N. Rg. 1 W.

Chains. difficult to survey, 80.00 chs.  
 May 21; at this cor. I set off 20° 11' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 34° 50' N.

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12.45 West on a sectional correction line bet. secs. 28 and 33. Descending W. slope of mountain covered with loose rocks.  
 20.50 Cross wash 10 lks. wide course N. and ascend.  
 Top of point of ridge bears nearly W. and along rough N. slope.  
 40.00 Set a malpais stone 18 x 8 x 5 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked 09 $\frac{1}{4}$  on N. face; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N of cor. Pits impracticable.  
 80.00 Set a malpais stone 20 x 10 x 6 ins. 15 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked 09 on N. E. face, with 1 notch on S. and 4 notches on E. edges; from which  
 Acedar 8 ins. diam., bears S. 73° E. 162 lks. dist., marked 09T17NRLWS33BT.  
 No other trees available. Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. Of cor. Pits impracticable.  
 Land, rough and mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Mountainous land covered with loose rocks, exceptionally difficult to survey, 80.00 chs.

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3.00 West on a sectional correction line bet. secs. 29 and 32. Along rough N. slope covered with loose rock.  
 18.00 Descend N. W. slope.  
 32.00 Cross wash 10 lks. wide course N. W. and ascend E. slope.  
 40.00 Change to N. slope.  
 Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked 09 $\frac{1}{4}$  on N. face; from which  
 A cedar 4 ins. diam. bears S. 61° W. 90 lks. dist., marked 09 $\frac{1}{4}$ S32BT.  
 A cedar 6 ins. diam., bears N. 72° E. 339 lks. dist., marked 09 $\frac{1}{4}$ S29BT.  
 62.60 Descending along N. W. slope.  
 76.00 Cross wash 15 lks. wide course N.  
 80.00 Enter timber.  
 Set a malpais stone 18 x 12 x 5 ins. 12 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked 09 on N. E. face, with 1 notch on S. and 5 notches on E. edges; from which  
 A cedar 8 ins. diam., bears N. 76 $\frac{3}{4}$ ° E. 180 lks. dist., marked 09T17NRLWS29BT.  
 A cedar 10 ins. diam., bears S. 7 $\frac{1}{4}$ ° E. 216 lks. dist., marked 09T17NRLWS32BT.  
 A cedar 12 ins. diam., bears S. 17 $\frac{1}{4}$ ° W. 99 lks. dist., marked 09T17NRLWS31BT.  
 A cedar 14 ins. diam., bears N. 43 $\frac{1}{4}$ ° W. 21 lks. dist., marked 09T17NRLWS30BT.  
 Land, mountainous and rough.  
 Soil, rocky; 4th. rate.  
 Timber, cedar.  
 Mountainous land, covered with loose rock, exceptionally difficult to survey, 80.00 chs.

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8.00 West on a sectional correction line bet. secs. 30 and 31. Along rough N. slope covered with loose rock, through scattering timber.  
 12.40 Leave timber.  
 Cross road bears N. and S.

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## Subdivision of Tp. 17 N. Rg. 1 W.

Chains.	
20.50	Cross wash 50 lks. wide, course S. W. and ascend.
35.00	Ridge bears N. and S. and descend.
40.00	Set a malpais stone 20 x 12 x 6 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $09\frac{1}{4}$ on N. face; from which, A cedar 10 ins. diam., bears N. $68^{\circ}$ E. 94 lks. dist., marked $09\frac{1}{4}$ S30BT. A cedar 6 ins. diam., bears S. $7\frac{1}{2}^{\circ}$ W. 91 lks. dist., marked $09\frac{1}{4}$ S31BT.
65.00	Decent becomes precipitous.
80.15	Intersect W. bdy. of township at S. $0^{\circ} 38'$ W. 6.35 chs. from the cor. of secs. 25 and 36 on the E. bdy. of Tp. 17 N. Rg. 2 W. previously described, and mark a cross on the N. E. face of a granite rock in place 8 x 5 x 5 ft. above ground, for closing cor. of secs. 30 and 31, marked 09CC on E; with 1 groove on S. and 5 grooves on N. of cross; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high E. of cor. Pits impracticable. Land, rough and mountainous. Soil, rocky; 4th. rate. Timber, cedar. Mountainous land, covered with loose rock, exceptionally difficult to survey, 80.15 chains.
	May 21, 1909.
	May 22; At 6h. 00m., a.m., l.m.t., I set off $34^{\circ} 50'$ N. on the lat. arc: $20^{\circ} 22'$ N. on the decl. arc: and determine a meridian with the solar at the cor. of secs. 25, 26, 35, and 36, previously described, Thence I run, South on a random line bet. secs. 35 and 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor. <span style="float: right;">St.</span>
80.44	Intersect S. bdy. of Tp. 23 lks, E. of cor. of secs. 35 and 36, Thence I run N. $0^{\circ} 10'$ E. bet. secs. 35 and 36 on a true line. Along W. slope of mountain covered with loose rock. Descend N. w. slope.
14.50	Cross wash 10 lks. wide course N. W.
20.00	Cross wash 5 lks. wide course N. W. and ascend.
35.20	Set a malpais stone 18 x 6 x 5 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $09\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. pits impracticable.
40.44	Thence descend.
48.55	Cross wash 10 lks. wide course N. E. and ascend.
54.50	Along rough broken top of ridge.
63.50	Descend along rough N. E. slope.
80:44	The cor. of secs. 25, 26, 35 and 36. Land, rough and mountainous. Soil, rocky; 4th. rate. No timber. Mountainous land covered with loose rock, exceptionally difficult to survey, 80.44 chs.
	N. $0^{\circ} 01'$ W. bet. secs. 25 and 26. Along rough E. slope covered with loose rock. Descend N. slope.
21.00	Change to N. W. slope.
30.00	Cross wash 10 lks. wide course N. E. and ascend.
35.50	Set a malpais stone 24 x 10 x 8 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $09\frac{1}{4}$ on W. face; from which A cedar 14 ins. diam., bears N. $83\frac{1}{2}^{\circ}$ E. 60 lks. dist., marked $09\frac{1}{4}$ S25BT. A cedar 8 ins. diam., bears S. $39^{\circ}$ W. 172 lks. dist., marked $09\frac{1}{4}$ S26BT.
40.00	Ridge bears N. E. and S. W. and descend.
44.00	

Subdivision of Tp. 17 N. Rg. 1 W.

Chains.	
61.75	Cross wash 20 lks. wide course N. E. and along E. slope.
80.00	A malpais stone 20 x 14 x 6 ins. 15 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked 09 on N. E. face; with 2 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable Land, mountainous. Soil, rocky; 4th. rate. No timber. Mountainous land, covered with loose rock, exceptionally difficult to survey, 80.00 chs.
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40.00	East, on a random line bet. secs. 24 and 25.
80.02	Set temp. 1/4 sec. cor. Intersect E. bdy. of Tp. 3 lks. S. of the cor. of secs. 19, 24, 25 and 30. Thence I run S. 89° 59' W. on a true line bet. secs. 24 and 25. Descending rough N. W. slope through heavy timber and brush.
1.00	Wash, course northwest.
6.50	Cross wash 10 lks. wide course N. and ascend.
8.00	Ridge bears N. and S. and descend.
10.25	Cross wash 10 lks. wide course N. and ascend.
20.00	Ridge bears N. and S. and descend.
40.01	Bluff 30 ft. high. Leave timber and brush.
40.01	Mark a cross on a rock in place 5 x 3 x 2 ft. above ground for 1/4 sec. cor., marked 09 1/4 on N. of cross; from which A cedar 8 ins. diam., bears S. 38 1/4° W. 201 lks. dist., marked 09 1/4 S25BT. A cedar 8 ins. diam., bears N. 66 3/4° W. 153 lks. dist., marked 09 1/4 S24BT.
44.00	Cross wash 20 lks. wide course N. W. and ascend.
48.00	Enter timber and brush.
53.00	Leave timber and brush.
59.00	Ridge bears N. and S. and descend.
63.00	Enter timber and brush.
66.30	Cross wash 10 lks. wide course N. and ascend.
69.50	Ridge bears N. E. and S.W. and descend.
73.00	Cross wash 20 lks. wide course N. E. and ascend.
78.50	Ridge bears N. and S. and descend.
79.70	Cross wash 5 lks. wide course S.E.
80.02	The cor. of secs. 23, 24, 25 and 26. Land, mountainous and rough. Soil, rocky; 4th. rate. Timber, cedar and pinon. Underbrush, cedar. Mountainous land, land heavily timbered and covered with dense underbrush and loose rocks, 80.02 chs. <i>Exceptionally difficult to survey</i> May 22; At this cor. I set off 20° 23' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 51' N.
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	N. 0° 01' W. bet. secs. 23 and 24.
5.00	Ascend S. slope covered with loose rock.
18.00	Enter heavy timber and dense brush.
25.80	Ridge bears N. E. and S. W. and descend.
30.00	Cross wash 10 lks. wide course N.E. and ascend.
37.10	Ridge bears E. and W. and descend.
40.00	Cross wash 15 lks. wide course E. and ascend. Set a malpais stone 20 x 10 x 8 ins. 15 ins. in the ground for 1/4 sec. cor., marked 09 1/4 on W. face; from which A pinon 4 ins. diam., bears N. 85° E. 124 lks. dist., marked 09 1/4 S24BT A cedar 22 ins. diam., bears West 55 lks. dist. marked 09 1/4 S23BT.
43.00	Ridge bears E and W. and descend along N. E. slope.
53.00	Change to S. E. slope.

## Subdivision of Tp. 17 N. Rg. 1 W.

Chains.	
64.00	Ridge bears E. and W. and descend.
80.00	Set a limestone 20 x 7 x 4 ins. 15 ins. in the ground for cor. of secs. 13, 14, 23 and 24, marked 09 on N. E. face; with 3 notches on S. and 1 notch on E. edges; from which A cedar 7 ins. diam., bears N. 15° E. 44 lks. dist., marked 09T17NR1WS13BT. A cedar 16 ins. diam., bears S. 16° E. 59 lks. dist., marked 09T17NR1WS24BT. A cedar 6 ins. diam., bears S. 35½° W. 224 lks. dist., marked 09T17NR1WS23BT. A cedar 8 ins. diam., bears N. 59° W. 135 lks. dist., marked 09T17NR1WS14BT.
	Land, mountainous. Soil, rocky: 4th. rate. Timber, cedar and pinon. Underbrush, cedar. Mountainous land, land heavily timbered and covered with dense underbrush and loose rocks. Exceptionally difficult to survey 80.00 chs.
	—————
40.00	N. 89° 59' E. on a random line bet. secs. 13 and 24. Set temp. ¼ sec. cor.
79.92	Intersect E. bdy. of Tp. 5 lks. N. of the cor. of secs. 13, 18, 19 and 24. Thence I run N. 89° 59' W. on a true line bet. secs. 13 and 24 On top of ridge covered with loose rock, through heavy timber and dense brush.
2.00	Descend W. slope.
7.50	Cross wash 15 lks. wide course N. and ascend.
16.00	Ridge bears N. and S. and descend.
19.75	Cross wash 40 lks. wide course N. and ascend.
25.00	Ridge bears N. and S. and descend.
27.25	Cross wash 15 lks. wide course N. E. and ascend.
37.00	Ridge bears N. and S. and descend.
39.96	Set a limestone 16 x 12 x 4 ins. 11 ins. in the ground for ¼ sec. cor., marked 09¼ on N. face; from which A pinon 6 ins. diam., bears N. 9° E. 41 lks. dist., marked 09¼S13BT. A cedar 6 ins. diam., bears S. 50° W. 53 lks. dist., marked 09¼S24BT.
45.00	Cross wash 15 lks. wide course N. E. and ascend.
58.00	Ridge bears N. and S. and descend.
72.70	Cross wash 50 lks. wide course N. and ascend.
79.92	The cor. of secs. 13, 14, 23 and 24. Land, rough and mountainous. Soil, rocky: 4th. rate. Timber, cedar. Underbrush, cedar. Mountainous land, land heavily timbered and covered with dense underbrush and loose rocks, exceptionally difficult to survey, 79.92 chs.
	May 22, 1909.
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	May 23: At 6h. 00m. a.m., l.m.t., I set off 34° 52' N. on the lat. arc; 20° 34' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24. Thence I run N. 0° 01' W. bet. secs. 13 and 14. Along E. slope, covered with loose rocks, through heavy timber and dense brush.
37.00	Ridge bears N. E. and S. W. and descend.
40.00	Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for ¼ sec. cor., marked 09¼ on W. face; from which

Subdivision of Tp. 17 N. Rg. 1 W.

Chains.	
	A cedar 5 ins. diam., bears S. 45° E. 42 lks. dist., marked 09 $\frac{1}{4}$ S13BT
	A cedar 6 ins. diam., bears N. 25° W. 62 lks. dist., marked 09 $\frac{1}{4}$ S14BT.
43.00	Cross wash 10 lks. wide course N. E. and ascend.
50.00	Ridge bears E. and W. and along E. slope.
57.00	Change to W. slope.
80.00	Set a malpais stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 11, 12, 13 and 14, marked 09 on N. E. face; with 4 notches on S. and 1 notch on E. edges; from which
	A pinon 7 ins. diam., bears N. 50 $\frac{1}{2}$ ° E. 121 lks, dist., marked 09T17NR1WS12BT.
	A cedar 10 ins. diam., bears S. 39° E. 11 lks. dist., marked 09T17NR1WS13BT.
	A pinon 5 ins. diam., bears S. 63 $\frac{1}{4}$ ° W. 97 lks. dist., marked 09T17NR1WS14BT.
	A cedar 8 ins. diam., bears N. 39° W. 98 lks. dist., marked 09T17NR1WS11BT.
	Land, mountainous. Soil, rocky; 4th. rate. Timber, cedar and pinon. Underbrush, cedar. Mountainous land, land heavily timbered and covered with dense underbrush and loose rocks, exceptionally difficult to survey, 80.00 chs.
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40.00	S. 89° 59' E. on a random line bet. secs. 12 and 13/ Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect E. bdy. of Tp. 21 lks. N. of the cor. of secs. 7, 12, 13 and 18. Thence I run N. 89° 50' W. on a true line bet. secs. 12 and 13. Descend N. W. slope covered with loose rock, through heavy timber and dense brush.
1.90	Cross wash 10 lks. wide course N. E. and ascend.
9.00	Ridge bears N. and S. and descend.
17.80	Cross wash 15 lks. wide course N. and ascend.
29.00	Ridge bears N. and S. and descend.
34.00	Cross wash 10 lks. wide course N. W. and ascend.
39.95	Set a limestone 18 x 10 x 7 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N. face; from which
	A pinon 5 ins. diam., bears N. 30° W. 62 lks. dist., marked 09 $\frac{1}{4}$ S12BT.
	A cedar 5 ins. diam., bears S. 30° W. 63 lks. dist., marked 09 $\frac{1}{4}$ S13 BT.
43.00	Ridge bears N. and S. and descend.
48.60	Cross wash 50 lks. wide course N.
52.00	Cross same wash course S. E.
57.15	Cross same wash course N. E. and ascend.
70.00	Ridge bears N. and S. and descend.
73.20	Cross wash 5 lks. wide course N. and ascend.
78.00	Ridge bears N. and S. and descend.
79.90	The cor. of secs. 11, 12, 13 and 14. Land, mountainous and rough. Soil, rocky; 4th. rate. Timber, cedar and pinon. Underbrush, cedar. Mountainous land, land heavily timbered and covered with dense underbrush and loose rocks, exceptionally difficult to survey, 79.90 chs.
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	N. 0° 01' W. bet. secs. 11 and 12. Descend NW slope covered with loose rock through heavy timber and dense brush.
5.50	Cross wash 10 lks. wide course W. and ascend.
10.00	Spur bears E. and W. and descend.

## Subdivision of Tp. 17 N. Rg. 1W.

Chains.	
17.60	Cross wash 20 lks. wide course N. E. and ascend.
20.00	Spur bears E. and W. and descend.
24.80	Cross wash 20 lks. wide course N. W.
30.00	Ridge bears E. and W. and descend.
37.00	Cross wash 10 lks. wide course N. W. and ascend.
40.00	Set a limestone 24 x 8 x 8 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked O9 $\frac{1}{4}$ on W. face; from which A pinon 6 ins. diam., bears S. 45° E. 34 lks. dist., marked O9 $\frac{1}{4}$ S12BT. A pinon 10 ins. diam., bears N. 41° W. 36 lks. dist., marked O9 $\frac{1}{4}$ S11BT.
41.50	Ridge bears N. E. and S.W. and descend
52.00	Along W. slope, descending.
60.60	Cross wash 10 lks. wide course N. W. and ascend S. W. slope.
70.00	Ridge bears E. and W. and descend steep N. W. slope.
78.00	Cross wash 35 lks. wide course N. E. and ascend along SE slope.
80.00	Set a limestone 18 x 9 x 5 ins. 12 ins. in the ground for cor. of secs. 1, 2, 11 and 12, marked o9 on N. E. face; with 5 notches on S. and 1 notch on E. edges; from which. A cedar 4 ins. diam., bears S. 68° W. 165 lks. dist., marked O9T17NR1WS11BT. A cedar 4 ins. diam., bears N. 45° W. 99 lks. dist. marked O9T17NR1WS2BT. No other trees available. Raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Land, rough and mountainous. Soil, rocky; 4th. rate. Timber, cedar. Underbrush, cedar. Mountainous land covered with loose rock heavily timbered and covered with dense undergrowth 80.00 chs. May 23: At this cor. I set off 20° 34 $\frac{1}{2}$ ' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 53 $\frac{1}{2}$ ' N.
40.00	S. 89° 50' E. on a random line bet. secs. 1 and 12 Set temp. $\frac{1}{4}$ sec. cor.
79.80	Intersect E. bdy. of Tp. 2 lks. S. of the cor. of secs. 1, 6, 7 and 12. Thence I run N. 89° 51' W. on a true line bet. secs. 1 and 12. Descending rough broken S W. slope covered with loose rocks.
18.50	E. bank of Verde River, running water 1 ft. deep, course S.
20.10	W. bank of Verde River, and ascend precipitous E. slope
25.40	Enter heavy timber and underbrush and along on top ridge bears N. W. and S. E.
39.90	Set a limestone 18 x 10 x 10 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked O9 $\frac{1}{4}$ on N. face; from which A cedar 5 ins. diam., bears S. 50° E. 5 lks. dist. marked O9 $\frac{1}{4}$ S12BT. A pinon 7 ins. diam., bears N. 45° W. 37 lks. dist. marked O9 $\frac{1}{4}$ S1BT.
54.00	Descend S. W. slope.
63.00	Leave timber and brush.
70.40	Cross wash 75 lks. wide course N. W. and ascend.
73.40	Ridge bears N. and S. and descend.
75.10	Cross wash 35 lks. wide course N. ascend.
79.80	The cor. of secs. 1, 2, 11 and 12. Land, mountainous and rough. Soil, rocky; 4th. rate. Timber, cedar and pinon. Underbrush, cedar. Mountainous land covered with loose rock, land heavily timbered and covered with dense undergrowth 79.80 chs.

## Subdivision of Tp. 17 N., Rg. 1 W.

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chains

- N 0° 01' W, bet. secs. 1 and 2.  
Ascending along steep S. slope over loose rocks through scattering timber and dense underbrush.
- 4.00 Top of ridge, bears NE. and SW. desc. steep slope.
- 19.20 Drain, course NE. asc. steep slope.
- 20.00 Top of spur, extends West. desc. steep slope.
- 24.15 Wash, 80 lks. wide, course NE. asc. steep slope.
- 27.60 Wash, 15 lks. wide, course, SE. asc. steep slope.
- 30.00 Top of ridge, bears NE. and SW. desc. steep slope.
- 31.95 Drain, course SW. asc. steep slope.
- 40.00 Set a malpais stone, 20 X 10 X 4 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked 09  $\frac{1}{4}$  on W. face; from which  
A cedar 6 ins. diam., bears S 11° 55' E. 75 lks. dist., marked, 09  $\frac{1}{4}$  S 1 BT.  
A cedar, 10 ins. diam., bears S 86° W. 230 lks. dist., marked 09  $\frac{1}{4}$  S 2 BT.
- 45.00 Top of Verde river canyon, bears SE. and NW., desc. steep preceptitious slope into canyon.
- 55.63 Point for witness cor. to closing cor. falls on a granite rock, 20 X 18 X 10 ins., above ground; I cut a cross (X) at the point for cor., and mark 09 WC CC on S., PC on N., with 1 notch E. of cross, and raise a mound of stone, 2 ft. base, 1, 1/2 ft. high, S. of cor. Pits impracticable.
- 55.70 S. bank of the Verde river, course SE. across stream of water.
- 57.20 Leave stream of water and across river bottom.
- 58.63 Intersect S. Bdy. of tract No. 40 at a point 256 lks. S 89° 50' W of cor. No. 6. This point falls on land subject to overflow therefore I can not set closing cor.  
Thence across claim on blank line
- 76.81 Intersect N. Bdy. of tract No. 40., at a point 270 lks. W. of cor. No 7. Set a granite stone, 23 X 10 X 6 ins., 17 ins. in the ground, for closing cor. bet. secs 1 and 2, marked 09 CC on N., PC on S. face; with 1 groove on E. face; and raise a mound of stone, 2 ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.
- 85.70 Intersect S. Bdy of Tp. 18 N. Rg. 1 W. at a point 59 lks. East of the cor. of secs. 35 and 36. Set a limestone, 18 X 6 X 5 ins., 12 ins. in the ground, for closing cor. bet. secs. 1 and 2., marked 09 CC on S. with 5 grooves on W. and 1 groove on E. face; and raise a mound of stone, 2 ft. base, 1, 1/2 ft. high, S. of cor. Pits impracticable. From cor.,  
A cedar 6 ins., diam, bears S 21° 35' E. 96 lks. dist., marked 09 CC T 17 N R 1 W S 1 BT.
- Land, mountainous and rough.  
Soil, rocky: 4th rate.  
Timber, cedar and pinon.  
Underbrush, cedar.  
Mountainous land covered with loose rocks, scattering timber, and dense underbrush, 85.70 chs.

May 23, 1909.

May 24: At 6h. 00m., a.m., l.m.t., I set off 34° 50' N. on the lat. arc, 20° 45, 1/2' N. on the decl arc and determine a meridian with the solar at the cor. of secs. 26, 27, 34 and 35 previously described.

Thence I run

South on a random line bet secs. 34 and 35.

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

78.93 Intersect S. bdy. of Tp. 45 lks. E. of cor. of secs. 34 and 35.

Thence I run

N 0° 19' E. on true line bet. secs. 34 and 35.

Ascend S slope over loose rocks.

27.43 Top of ridge, bears NE. and SW. desc. steep slope over loose rocks.

38.45 Wash, 20 lks. wide, course SW. over rolling land.

## Subdivision of Tp. 17 N. Rg. 1 W.

Chains	
38.93	Set a granite stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1, 1/2 ft. high W. of cor. Pits impracticable.
47.40	Road, bears NE and SW.
48.95	Wash, 15 lks. wide, course SW.
60.95	Wash, 10 lks. wide, course SE.
68.80	Same wash, 10 lks. wide, course SW.
78.93	The cor. of secs. 26, 27, 34 and 35. Land, rolling and mountainous. Soil, gravelly and rocky; 3rd and 4th rate. No timber, or underbrush. Mountainous land, 78.93 chs.
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	N. 0° 01' W. bet. secs. 26 and 27. Ascending over loose rocks.
1.39	Old cor. bears W. 5 lks. I destroy it.
26.00	Along steep W. slope over loose rocks.
40.00	Set a malpais stone, 18X8X8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which A cedar 8 ins. diam., bears S 65 $\frac{1}{4}$ ° E., 108 lks. dist. marked 09 $\frac{1}{4}$ S 26 BT. A cedar 14 ins., diam., bears N 44, 1/2° W., 133 lks. dist.; marked 09 $\frac{1}{4}$ S 27 BT.
43.20	Wash, 05 lks. wide, course NW.
48.85	Wash, 15 lks. wide, course W. asc. steep slope over loose rocks.
61.00	Descend along steep W. slope over loose rocks.
80.00	Set a malpais stone, 28X15X10 ins., 2 ins., in the ground, for cor. of secs. 22, 23, 26 and 27, marked 09 on NE. face, with 2 notches on S. and E. edges: from which A cedar 8 ins., diam., bears N 1, 1/2° W. 76 lks. dist. marked 09 T 17 N R 1 W S 22 BT No other trees available. Raise a mound of stone, 2 ft. base, 1, 1/2 ft. high, W. of cor. pits impracticable. Land, mountainous. Soil, rocky; 4th rate. Timber, scattering cedars. No underbrush. Mountainous land, covered with loose rocks, exceptionally difficult to survey. 80.00 chs.
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	East on random line bet. secs. 23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line 07 lks. N. of cor. of secs. 23, 24, 25 and 26. Thence I run N 89° 57' W. on a true line bet. secs. 23 and 26. Ascend steep slope through dense underbrush.
8.00	Top of ridge, bears N. and S. desc. steep slope over loose rocks.
20.50	Road in a wash, 15 lks. wide, course N. asc. steep slope over loose rocks.
28.00	Top of ridge, bears N. and S. desc. steep slope over loose rocks.
30.40	Wash, 15 lks. wide, course N! and along steep S slope over loose rocks.
40.02	Set a limestone, 18X10X8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N. face. from which A cedar 6 ins. diam., bears N 42, 1/2° W., 130 lks. dist., marked 09 $\frac{1}{4}$ S 23. BT. A cedar, 10 ins., diam. bears S 46° E. 206 lks. dist., marked 09 $\frac{1}{4}$ S 26 BT.
41.00	Wash, 10 lks. wide, course SE., asc. steep slope over loose rocks.
56.55	Top of ridge, bears N. and S. desc. steep slope over loose rocks.
70.30	Wash, 10 lks. wide, course NW.
71.05	Wash, 10 lks. wide, course N. asc. steep slope over loose rocks.

Subdivision of Tp.17 N. Rg 1 W.

chains.	
76.55	Top of ridge, bears N. and S. desc. steep slope over loose rocks.
80.04	The cor. of secs. 22, 23, 26 and 27. Land mountainous. Soil, rocky; 4th rate. Timber, scattering cedars. Underbrush, scrub oak and cedar. Mountainous land covered with loose rocks exceptionally difficult to survey, 80.04 chs. May 24: At this cor. I set off 20° 46' N. on the decl. arc and observe the sun on the meridian at noon. the resulting latitude is 34° 51' N.
	V
	N 0° 01' W. bet. secs. 22 and 23. Along steep W. slope over loose rocks.
4.90	Wash, 10 lks. wide, course NE. Asc. steep slope over loose rocks.
20.00	Top of ridge, bears N. and S. Along top of ridge thru scattering cedar timber over loose rocks.
30.00	Descend steep N. slope thru dense timber over loose rocks.
40.00	Set a sandstone, 18x10x8 ins., 12 ins. in the ground, for 1/4 sec. cor. marked 09 1/4 on W. face; from which A cedar 5 ins., diam., bears S 84, 1/2° W. 30 lks. dist., marked, 09 1/4 S 22 BT. A cedar 10 ins., diam., bears N 55, 1/2° E. 73 lks. dist. marked 09 1/4 S 23 BT.
53.20	Wash, 10 lks. wide, course NE.
64.00	Wash, 50 lks. wide, course NE.
66.00	Same wash, 50 lks. wide, course NW
69.50	Wash, 10 lks. wide, course NW desc. steep slope over loose rocks.
74.35	Drain, course NW.
80.00	Set a malpais stone, 20x10x4 ins., 15 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, marked 09 on NE. face; with 3 notches on S. and 2 notches on E. edge; from which A cedar 8 ins. diam., bears N 56, 3/4° E., 113 lks. dist., marked 09 T 17 N R 1 W S 14 BT. A cedar 22 ins. diam., bears S 65, 3/4° E., 56 lks. dist. marked 09 T 17 N R 1 W S 23 BT A cedar 8 ins., diam., bears S 17, 1/2° W. 48 lks. dist. marked, 09 T 17 N R 1 W S 22 BT. A cedar limb, 6 ins., diam., bears N 33, 1/2° W. 30 lks. dist., marked 09 T 17 N R 1 W S 15 BT.
	Land, mountainous and rough. Soil, rocky; 4th rate. Timber, cedar and pinon. Underbrush, scrub oak and cedar. Mountainous land covered with dense timber and loose rocks, exceptionally difficult to survey, 80.00 chs.
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40.00	S 89° 57' E. on random line bet. secs 14 and 23. Set temp. 1/4 sec. cor.
80.14	Intersect N and S. line 10 lks. N. of cor. of secs. 13, 14, 23 and 24. Thence I run. N 89° 53' W. on true line bet secs. 14 and 23.
	Ascending steep slope thru dense timber and underbrush, over loose rocks.
3.50	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
17.00	Wash, 40 lks. wide, course NW. Asc. steep slope over loose rocks.
28.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.

chains.	
39.25	Road in wash, 25 lks. wide, course N. Asc. steep slope over loose rocks.
40.07	Set a malpais stone, 18X10X4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked 09 $\frac{1}{4}$ on N. face; from which A cedar 9 ins. diam., bears N 39, $1/4^\circ$ E. 88 lks. dist. marked: 09 $\frac{1}{4}$ S 14 BT. A cedar 8 ins., diam., bears S 63, $1/2^\circ$ W., 115 lks. dist., marked 09 $\frac{1}{4}$ S 23 BT.
43.00	Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.
49.90	Wash, 45 lks. wide, course NE. Asc. steep SE. slope over loose rocks.
57.00	Descend steep SW. slope over loose rocks.
65.00	Wash, 10 lks. wide, course SE. Asc. steep slope over loose rocks.
70.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
80.14	The cor. of secs. 14, 15, 22 and 23. Land, mountainous and rough. Soil, rocky: 4th rate. Timber, cedar. Underbrush, scrub oak and cedar. Mountainous land covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey 80.14 chs.

May 24th, 1909.

May 25: At 6h.00m., a.m., l.m.t., I set off  $34^\circ 52' N.$  on the lat. arc:  $20^\circ 56, 1/2' N.$  on the decl. arc and determine a meridian with the solar at the cor. of secs. 14, 15, 22 and 23.

Thence I run

N  $0^\circ 01' W.$  bet. secs. 14 and 15.

Along steep W. slope thru scattering timber and dense underbrush over loose rocks.

8.50	Wash, 10 lks. wide, course NW. Asc. steep slope over loose rocks.
10.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
17.40	Wash, 15 lks. wide, course NW. Asc. steep slope over loose rocks.
30.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
40.00	Set a malpais stone, 15X10X6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which A cedar 4 ins., diam., bears N $65^\circ W.$ , 08 lks. dist., marked 09 $\frac{1}{4}$ S 15 BT. A cedar 18 ins. diam., bears S $80^\circ E.$ 09 lks. dist., marked 09 $\frac{1}{4}$ S 14 BT.
46.00	Wash, 60 lks. wide, course NE.
54.20	Same wash, 60 lks. wide, course NW.
59.00	Same wash, 60 lks. wide, course NE. Asc. steep SE slope over loose rocks.
71.00	Descend steep NE. slope over loose rocks.
78.70	Wash, 40 lks. wide, course NE. Asc. steep slope over loose rocks.
80.00	Set a malpais stone, 24X10X4 ins., 2 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked 09 on NE. face, with 4 notches on S. and 2 on E. edge; from which A cedar 6 ins. in diam., bears N $14, 3/4^\circ E.$ 159 lks. dist., marked 09 T 17 N R 1 W S 11 BT A cedar 12 ins. in diam., bears S $45^\circ E$ 17 lks. dist., marked 09 T 17 N R 1 W S 14 BT. A cedar 5 ins. in diam., bears S $45, 3/4^\circ W.$ 08 lks. dist., marked 09 T 17 N R 1 W S 15 BT. A cedar 10 ins. in diam., bears N $70, 3/4^\circ W.$ 90 lks. dist., marked 09 T 17 N R 1 W S 10 BT.

## Subdivision of Tp 17 N' Rg. 1 W.

chains.	
	Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, scrub oak and cedar. Mountainous land, covered with dense underbrush and loose rocks, exceptionally difficult to survey, 80.00 chs.
40.00	S 89°53'E. on random line bet. secs. 11 and 14. Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line 14 lks. S. of cor. to secs. 11, 12, 13 and 14. Thence I run N 89°59'W. on true line bet. secs. 11 and 14. Descend steep slope thru dense timber and underbrush over loose rocks.
2.75	Wash, 40 lks. wide, course N. Asc. steep slope over loose rocks.
10.50	Top of ridge, bears N. and S.; Desc. steep slope over loose rocks.
19.30	Wash, 30 lks. wide, course N. Asc. steep slope over loose rocks.
24.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
28.90	Drain, course N. Asc. steep slope over loose rocks.
33.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
40.01	Set a malpais stone, 18X12X11 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked 09 $\frac{1}{4}$ on N. face; from which. A cedar limb 5 ins. in diam., bears N 47°E. 56 lks. dist., marked 09 $\frac{1}{4}$ S 11 RT. A cedar 4 ins. in diam., bears South 48 lks., dist. marked 09 $\frac{1}{4}$ S 14 RT.
43.60	Wash, 20 lks. wide, course N.
58.95	Road, bears N. and S.
59.50	Wash, 50 lks. wide, course NE.
79.50	Wash, 40 lks. wide, course NE.
80.02	The cor. of secs. 11, 12, 14 and 15. Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. Mountainous land covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey, 80.02 chs:
	N 0° 01'W. bet. secs. 10 and 11. Over rolling land thru dense timber and underbrush over loose rocks.
29.75	Wash, 25 lks. wide, course E.
34.00	Wash, 10 lks. wide, course NE.
39.70	Wash, 15 lks. wide, course NE.
40.00	Set a limestone 18X8X6 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face. from which A cedar 8 ins. in diam., bears S 45°E 61 lks. dist., marked, 09 $\frac{1}{4}$ S 11 RT. A cedar 18 ins. in diam., bears N 45°W., 54 lks. dist., marked 09 $\frac{1}{4}$ S 10 RT.
52.80	Wash, 20 lks. wide, course NE.
64.20	Wash, 15 lks. wide, course NE. Asc. steep slope over loose rocks.
68.50	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
73.20	Wash, 40 lks. wide, course NE.
79.75	Wash, 30 lks. wide, course NE.
80.00	Set a limestone 20X9X6 ins., 15 ins. in the ground, for cor. of secs. 2, 3, 10 and 11; marked 09 on NE. face, with 5 notches on S. and 2 notches on E. edge: from which, A cedar limb 12 ins. in diam., bears N 23, 1/2°E. 316 lks. dist., marked 09 T 17 N R 1 W S 2 RT.

chains.

	A cedar limb 12ins. in diam., bears S 55° E 334 lks. dist., marked; 09 T 17 N R 1 W S 11 FT.
	A cedar 6ins. in diam., bears S 54° 20' W. 183 lks., dist., marked; 09 T 17 N R 1 W S 10 FT.
	A cedar 8ins. in diam., bears N 41° W., 221 lks. W. dist., marked; 09 T 17 N R 1 W S 3 FT.
	May 25: At this cor. I set off 20° 57' N. on the decl arc and observe the sun on the meridian at noon; the resulting lat. being 34° 53, 1/2' N.
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	S 89° 59' E. on random line bet. secs. 2 and 11.
40.00	Set temp. 1/4 sec. cor.
79.86	Intersect N. and S. line 12 lks. W. of cor. of secs. 1, 2, 11 and 12.
	Thence I run
	N 89° 54' W. on true line bet. secs. 2 and 11.
	Ascending steep slope thru dense timber and underbrush over loose rocks.
8.00	Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.
17.00	Drain, course N. Asc. steep slope over loose rocks.
20.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
22.20	Wash, 25 lks. wide, course N. Along steep N. slope over loose rocks.
39.93	Set a malpais stone 20x8x8ins., 15ins. in the ground, for 1/4 sec. cor. marked 09 1/4 on N. face; from which, A cedar 11ins. in diam., bears South 151 lks., dist., marked; 09 1/4 S 11 FT. A cedar 16ins. in diam., bears N 35° E. 164 lks. dist., marked; 09 1/4 S 2 FT.
40.30	Drain, course N. Asc. steep slope over loose rocks.
42.00	Top of ridge, bears N. and S. Desc. along steep N. slope over loose rocks.
56.80	Wash, 40 lks. wide, course N. Asc. steep slope over loose rocks.
64.00	Top of spur, bears N. and S. Desc. steep slope over loose rocks.
67.10	Wash, 10 lks. wide, course NE.
69.80	Wash, 20 lks. wide course NE.
70.35	Road King's ranch to Jerome Junction, bears N. and S.
79.86	The cor. of secs. 2, 3, 10 and 11. Land, mountainous. Soil rocky; 3rd rate. Timber, cedar. Underbrush, scrub oak and cedar. Mountainous land covered with dense timber and underbrush, and loose rocks, exceptionally difficult to survey, 79.86 chs.
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	N 0° 01' W. bet. secs. 2 and 3.
	Across rolling land thru dense timber and underbrush over loose rocks.
27.40	Wash, 10 lks. wide, course NE.
33.00	Wash, 10 lks. wide, course NE.
40.00	Set a malpais stone, 18x10x6ins., 12ins. in the ground, for 1/4 sec. cor. marked 09 1/4 on W. face; from which A cedar 14 ins., in diam., bears N 56, 1/2° W. 144 lks. dist.; marked; 09 1/4 S 3 FT. A cedar 28 ins., in diam., bears S 37, 1/2° E. 33 lks. dist., marked; 09 1/4 S 2 FT.
40.43	Wire fence, bears E. and W.
53.20	Wash, 15 lks. wide, course NE. Asc. steep slope over loose rocks.
72.00	Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.
79.30	Wash, 15 lks. wide, course NE.
82.00	Wash, 15 lks. wide, course E. Asc. steep slope over loose rocks.

Subdivision of Tp. 17 N., Rg. 1 W1

chains  
85.50

Intersect the S. Bdy of Tp. 18 N. R. 1 W. 185 lks. E. of cor' of secs. 34 and 35; Set a limestone, 23X14X10 ins., 17 ins. in the ground, for closing cor. bet. secs. 2 and 3; marked 09 CC on S. face, with 2 grooves on E. and 4 grooves on W. face. from which,

A cedar 4 ins. in diam., bears S 40° 40' E. 42 lks. dist., marked: 09 CC T 17 N R 1 W S 2 RT.

A cedar 9 ins. in diam., bears S 86° 25' W. 160 lks., dist., marked: 09 CC T 17 N R 1 W S 3 RT.

Land, mountainous and rolling.

Soil, stony and rocky; 3rd rate.

Timber, cedar.

Underbrush, cedar and scrub oak.

Mountainous land covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey,

85.50 chs.

May 25th, 1909.

May 26; At 6h 00m., a.m., l.m.t., I set off 34° 50' N. on the 1st. arc; 21° 07' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34.

Thence I run

South bet. secs. 33 and 34.

Ascending along steep NW. slope over loose rocks.

10.00

Top of ridge, bears NE and SW. along steep E slope over loose rocks.

30.00

Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.

38.00

Enter dense cedar timber, bears E. and W.

40.00

Set a malpais stone, 18X10X8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on W. face; from which,

A cedar 15 ins. in diam., bears S 14° E. 81 lks., dist., marked: 09 1/4 S 34 BT.

A cedar 12 ins. in diam., bears S 55, 1/4° W. 210 lks. dist., marked: 09 1/4 S 33 RT.

64.00

Leave timber, and over level land.

77.50

Intersect the fourth Standard Parallel N. 72 lks. S. 89° E. of standard cor. of secs. 33 and 34. set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for closing cor. bet. secs. 33 and 34, marked 09 CC on N.; with 3 grooves on E. and W. faces; dig pits 24X18X12 ins., crosswise on each line E. and W., 3ft and N. of stone, 7 ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high, N. of cor.

Land, mountainous and level.

Soil, rocky and gravelly; 3rd and 4th rate.

Timber, cedar.

Underbrush, cedar and scrub oak.

Mountainous land covered with dense timber or loose rocks, exceptionally difficult to survey, 64.00 chs.

N 0° 02' W. bet. secs. 27 and 28.

Along steep W. slope over loose rocks.

2.00

Wash, 05 lks. wide, course W.

2.15

Old cor. bears W. 40 lks. I destroy it.

34.00

Enter dense cedar timber; change to NE. slope over loose rocks.

40.00

Set a limestone, 18X10X4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on W. face; from which

A cedar 18 ins. in diam., bears N 89° E., 06 lks., dist., marked: 09 1/4 S 27 BT.

A cedar 8 ins. in diam., bears S 74° W. 40 lks., dist., marked: 09 1/4 S 28 BT.

57.65

Wash, 20 lks. wide, course NW and Asc. steep rough slope over loose rocks.

68.00

Top of ridge, bears NW and SE; high peak bears SE. 10 chs. Desc. steep NE. slope over loose rocks.

Subdivision of Tp. 17 N., Rg. 1 W.

chains.	
79.50	Wash, 10 lks. wide, course W. Asc. steep slope over loose rocks.
80.00	Set a malpais stone, 18x10x6 ins., 12 ins. in the ground, for cor. of secs. 21, 22, 27 and 28; marked 09 on NE. face, with 2 notches on S. and 3 notches on E. edge from which A cedar 6 ins. in diam., bears N30° E. 127 lks. dist., marked: 09 T 17 N R 1 W S 22 BT. A cedar 12 ins. in diam., bears S 45° E. 04 lks. dist., marked 09 T 17 N R 1 W S 27 BT. A cedar 14 ins. in diam., bears S 78° W. 57 lks. dist., marked: 09 T 17 N R 1 W S 28 BT. A cedar 8 ins. in diam., bears N 9° W. 33 lks. dist., marked: 09 T 17 N R 1 W S 21 BT
	Land, mountainous. Soil, rocky: 4th rate. Timber, cedar. Mountainous land covered with dense timber or loose rocks exceptionally difficult to survey, 80.00 chs.
40.00	East on random line bet. secs. 22 and 27. Set temp. 1/4 sec. cor.
79.98	Intersect the N. and S. line 5 lks. N. of the cor. of sec. s. 22, 23, 26 and 27. Thence I run N 89° 58' W. on true line bet. secs. 22 and 27. Descend steep slope thru scattering timber and over loose rocks.
1.50	Wash, 10 lks. wide, course N. Asc. steep slope over loose rocks.
22.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
35.00	Wash, 20 lks. wide, course NW. Asc. steep slope over loose rocks.
39.99	Set a granite stone, 18x15x8 ins., 12 ins. in the ground, for 1/4 sec. cor. marked 09 1/4 on N. face; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.
41.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
47.70	Wash, 10 lks. wide, course NE. Asc. steep slope over loose rocks thru dense timber and underbrush.
62.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
79.98	The cor. of secs. 21, 22, 27 and 28. Land, mountainous. Soil, rocky: 4th rate. Timber, cedar. Underbrush, cedar. Mountainous land covered with dense timber and underbrush or covered with loose rocks, exceptionally difficult to survey, 79.98 chs. May 26; At this cor. I set off 21° 07' 1/2' N. on the decl arc and observe the sun on the meridian at noon, the resulting lat. is 34° 51' N.
1.50	N 0° 02' W. bet. secs. 21 and 22. Ascending steep S. slope thru dense timber and underbrush over loose rocks.
40.00	Along steep W. slope over loose rocks. Set a malpais stone, 14x10x10 ins., 9 ins. in the ground, for 1/4 sec. cor. marked 09 1/4 on W. face, from which A cedar limb 6 ins. in diam., bears S 24 1/2° E. 167 lks. dist., marked: 09 1/4 S 22 BT. A cedar 10 ins. in diam., bears N 88, 1/2° W. 54 lks. dist., marked: 09 1/4 S 21 BT.
41.00	Desc. steep N. slope over loose rocks.
51.50	Wash, 50 lks. wide, course NW. Asc. steep slope over loose rocks.
68.00	Top of ridge, bears SE and NW. Desc. steep slope over loose rocks.

Subdivision of Tp. 17 N., Rg. 1 W.

chains.	
75.00	Wash, 20 lks. wide, course NW. Asc. steep slope over loose rocks.
80.00	Set a malpais stone, 28x14x10 ins., 21 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, marked 09 17N on NE., and 1 W on SE. face; with 3 notches on S. and E. edges; from which, A cedar 24 ins. in diam., bears N 21 1/4° E. 136 lks., dist., marked; 09 T 17 N R 1 W S 15 BT. A cedar 20 ins. in diam., bears S 75, 1/2° E. 54 lks. dist., marked; 09 T 17 N R 1 W S 22 BT. A cedar 10 ins. in diam., bears S 80, 1/4° W. 113 lks. dist., marked; 09 T 17 N R 1 W S 21 BT. A cedar 10 ins. in diam., bears N 83, 3/4° W. 139 lks. dist., marked; 09 T 17 N R 1 W S 16 BT.
	Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar. Mountainous land covered with dense timber and underbrush, and loose rocks, 80.00 chs.
	S 89° 58' E. on random line bet. secs. 15 and 22.
40.00	Set temp. 1/4 sec. cor.
80.10	Intersect the N. and S. line 7 lks. S. of cor. of secs. 14, 15, 22, and 23. Thence I run S 89° 59' W. on true line bet. secs. 15 and 22. Descend steep slope over loose rocks.
7.50	Wash, 50 lks. wide, course NW. thru scattering timber and dense underbrush over loose rocks.
15.00	Wash, 10 lks. wide, course NE. Asc. steep slope over loose rocks.
28.50	Top of ridge, bears NE. and SW. Desc. steep slope over loose rocks.
40.05	Set a malpais stone, 18x12x10 ins., 12 ins. in the ground, for 1/4 sec. cor. marked 09 1/4 on N. face; from which, A cedar 10 ins. in diam., bears S 54, 3/4° W. 45 lks. dist., marked; 09 1/4 S 22 BT. A cedar 12 ins. in diam., bears N 23, 3/4° W 110 lks. dist., marked; 09 1/4 S 15 BT.
46.00	Wash, 20 lks. wide, course NE. Asc. steep NE. slope over loose rocks.; leave dense underbrush.
56.00	Top of hill and across top over loose rocks.
73.00	Descend steep W. slope over loose rocks.
80.10	The cor. of secs. 15, 16, 21, and 22. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, scrub oak. Mountainous land covered with dense underbrush and loose rocks exceptionally difficult to survey, 80.10 chs. May 26, 1909.
	May 27: At 6h. 00m., a.m., l.m.t., I set off 34° 52' N. on the lat. arc; 21° 17, 1/2' N. on the decl. arc. and determine a meridian with the solar at the cor. of secs. 15, 16, 21 and 22. Thence I run N 0° 02' W. bet. secs. 15 and 16. Ascending steep slope thru dense timber and underbrush, over loose rocks.
2.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
18.00	Wash, 15 lks. wide, course NW. Along steep NW. slope over loose rocks.
21.20	Wash, 15 lks. wide, course NW.
27.00	Along steep NW. slope over loose rocks.
40.00	Set a malpais stone, 18x10x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on W. face; from which,

chains	
	A cedar 12ins. in diam., bears S 79, 1/2° E. 72 lks. dist., marked: 09 1/4 S 15 BT.
	A cedar 8ins. in diam., bears N 77° W. 83 lks., dist., marked: 09 1/4 S 16 BT.
47.50	Wash, 15 lks. wide, course W. Asc. steep slope over loose rocks.
70.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks into Muldoon Canyon.
76.40	Wash, 50 lks. wide, course NE. Asc. steep slope.
80.00	Set a limestone, 18x10x8ins., 12ins. in the ground, for cor. of secs. 9, 10, 15, and 16, marked 09 on NE. face, with 4 notches on S. and 3 notches on E. edge; from which, A cedar 4ins. in diam., bears N 31 1/4° E. 05 lks., dist., marked: 09 T 17 N R 1 W S 10 BT. A cedar 5ins. in diam., bears S 9, 3/4° E. 73 lks. dist., marked: 09 T 17 N R 1 W S 15 BT. A cedar 10ins. in diam., bears S 62, 3/4° W. 91 lks., dist., marked: 09 T 17 N R 1 W S 16 BT. A cedar 8ins., in diam., bears N 31, 1/2° W. 77 lks. dist., marked: 09 T 17 N R 1 W S 9 BT.
	Land, mountainous. Soil, rocky: 3rd rate. Timber, cedar. Underbrush, cedar and scrub oak. Mountainous land covered with dense underbrush and loose rocks, exceptionally difficult to survey, 80.00 chs
	N 89° 59' E. on random line bet. secs. 10 and 15.
40.00	Set temp. 1/4 sec. cor.
80.14	Intersect the N. and S. line 5 lks. S. of the cor. of secs. 10, 11, 14 and 15. Thence I run S 89° 57' W. on true line bet. secs. 10 and 15.
	Ascending steep slope thru dense timber and underbrush over loose rocks.
8.50	Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.
17.20	Wash, 10 lks. wide, course NE. Asc. steep slope over loose rocks.
29.00	Top of ridge, bears N and S. Desc. steep slope over loose rocks.
39.00	Drain, course SW.
40.07	Set a limestone, 18x8x6ins., 12ins. in the ground, for 1/4 sec. cor. marked 09 1/4 on N. face; from which, A cedar 4ins. in diam., bears N 26° E. 34 lks. dist., marked: 09 1/4 S 10 BT. A cedar 6ins. in diam., bears S 70° E. 36 lks. dist., marked: 09 1/4 S 15 BT.
41.00	Wash, 25 lks. wide, course NW. Asc. steep slope over loose rocks.
45.50	Top of ridge, bears N and S. Desc. steep slope over loose rocks.
49.20	Wash, 10 lks. wide, course N. Asc. steep slope over loose rocks.
51.00	Top of spur, bears NE and SW. Desc. steep slope over loose rocks.
52.75	Drain course NE. Asc. steep slope over loose rocks.
60.00	Top of ridge, N. and S. Desc. steep slope over loose rocks
71.00	Wash, 20 lks. wide, course NW. Asc. steep slope over loose rocks.
76.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks into Muldoon Canyon.
79.00	Wash, 50 lks. wide, course N. Asc. steep slope over loose rocks.
80.14	The cor. of secs. 9, 10, 15 and 16. Land, mountainous. Soil, rocky: 4th rate. Timber, cedar.

Subdivision of Tp. 17 N. Rg. 1 W.

chains.

Underbrush, scrub oak and cedar.  
Mountainous land, covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey  
80.14 chs.

- 3.00 N 0° 02' W. bet. secs. 9 and 10.  
Ascending steep slope thru scattering timber and underbrush over loose rocks.
- 4.50 Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
- 11.30 Drain, course E. Asc. steep slope over loose rocks.
- 14.00 Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
- 16.50 Drain course E. Asc. steep slope over loose rocks.
- 22.00 Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
- 26.75 Enter and along Muldoon wash, course NW.
- 35.00 Leave Muldoon wash, 60 lks. wide, course NE. Asc. steep slope over loose rocks.
- 39.00 Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
- 40.00 Muldoon Wash, 60 lks. wide, course NW. Asc. steep slope over loose rocks.
- 43.00 Set a granite stone, 20x15x8 ins., 15 ins. in the ground, for 1/4 sec. cor. marked 09 1/4 on W. face; from which,  
A cedar 6 ins. in diam., bears N 75° E. 33 lks. dist., marked: 09 1/4 S 10 BT.  
A cedar 7 ins. in diam., bears S 22° W. 24 lks. dist., marked: 09 1/4 S 9 BT.
- 47.75 Top of ridge, E. and W. desc steep slope over loose rocks
- 51.20 Muldoon Wash, 60 lks. wide, course NE. Asc. steep slope over loose rocks.
- 59.40 Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
- 70.00 Muldoon Wash, 75 lks. wide, course NW. Asc. steep slope over loose rocks.
- 73.00 Descend steep NW. slope over loose rocks.
- 75.60 Drain, course NW.
- 78.10 Enter Muldoon Wash, course NE.
- 80.00 Leave Muldoon Wash, 80 lks. wide, course NW. Asc. steep slope over loose rocks.

Point for cor. of secs. 3, 4, 9, and 10 falls on a limestone ledge, 18 ins. above ground: I cut a cross (X) at the point for cor. and mark 09 on NE with 5 notches on the S. and 3 notches on the E. side of cross. from which,  
A cedar 10 ins. in diam., bears S 75° E. 165 lks. dist., marked 09 T 17 N R 1 W S 10. BT.  
No other trees available. Raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.  
Land mountainous.  
Soil, rocky; 4th ret.  
Timber, cedar and pinon.  
Underbrush, cedar and scrub oak.  
Mountainous land covered with underbrush and loose rocks, exceptionally difficult to survey, 80.00 chs.  
May 27: At this cor. I set off 21° 17, 1/2' N. on the decl arc and observe the sun on the meridian at noon; the resulting is 33° 53, 1/2' N.

- 40.00 N 8 9° 57' E. on random line bet. secs. 3 and 10.
- 80.20 Set temp. 1/4 sec. cor.  
Intersect the N. and S. line 7 lks. S. of the cor. of secs. 2, 3, 10 and 11.  
Thence I run  
S 89° 54' W. on true line bet. secs. 3 and 10.  
Ascend. E. slope thru scattering timber and underbrush over loose rocks.

chains.	
20.00	Ascent becomes steeper thru dense timber and underbrush
38.00	Top of ridge, bears N and S. Desc. steep slope over loose rocks.
40.10	Set a limestone, 15x12x8 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor markwd 09 $\frac{1}{4}$ on N. face; from which, A cedar 16 ins. in diam., bears N 60° E. 26 lks. dist., marked: 09 $\frac{1}{4}$ S 3 BT. A cedar 5 ins., in diam., bears S 35° W. 26 lks. dist., marked: 09 $\frac{1}{4}$ S 10 BT.
60.00	Along steep N. slope, over loose rocks.
65.00	Ascend along steep N. slope over loose rocks.
70.00	Top of ridge, bears SE and NW. Desc. steep slope over loose rocks.
80.20	The cor. of secs. 3, 4, 9 and 10. Land mountainous. Soil, rocky: 4th rate. Timber, cedar. Underbrush, cedar and scrub oak. Mountainous land covered with dense timber and underbrush or loose rocks, exceptionally difficult to survey, 80.20 chs.
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0.10	N0° 02' W. bet. secs. 3 and 4. Ascending steep SW. slope over loose rocks. Intersect the S. line of Tract No 37, 1.50 chs N89°45' W. of cor. No. 6; Set a limestone, 18x10x6 ins., 12 ins. in the ground, for closing cor., marked 09 CC on S., and PC on the N. face with 3 notches on the E., and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, S. of cor. pits impracticable. Thence on blank line across private claim.
39.02	Intersect the N. line of Tract No. 37, 3.18 chs S89°48' W. of cor. No. 7; Set a malpais stone, 18x11x6 ins., 12 ins. in the ground, for closing cor. marked 09 CC on N., PC on the S. with 3 notches on the E.; from which. A cedar, 6 ins. in diam., bears N 67° E. 69 lks. dist., marked: 09 CC T 17 N R 1 W S 3 BT. No other tree available. Raise a mound of stone, 2 ft. base, 1, 1/2 ft. high, N' of cor. pits impracticable.
40.00	Set a malpais stone, 18x15x15 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which a A cedar 10 ins. in diam., bears S 43° E. 82 lks. dist., marked: 09 $\frac{1}{4}$ S 3 BT. A cedar 6 ins. in diam., bears N54° W. 231 lks. dist., marked: 09 $\frac{1}{4}$ S 4 BT.
41.50	Descend steep slope into canyon over loose rocks.
49.50	Wash, 60 lks. wide, course SE. Asc. steep slope over loose rocks.
56.00	Along steep perceptitious slope over loose rocks and boulders.
75.00	Bare rock wall, 20 ft. high, bears E. and W. Desc. steep slope over loose rocks.
85.78	Intersect the S. Bdy. of Tp. 18 N., 111 lks. E. of cor. of secs. 33 and 34. Set a limestone, 28x10x6 ins., 21 ins. in the ground, for closing cor. bet. secs. 3 and 4., marked 09 CC on S. face; with 3 grooves on E. and W. faces: From which, A cedar 6 ins. in diam., bears S 58, 1/2° E. 152 lks. dist., marked: 09 CC T 17 N R 1 W S 3 BT. A cedar 5 ins. in diam., bears S 31° 10' W. 112 lks. dist., marked: 09 CC T 17 N R 1 W S 4 BT. Land, mountainous. Soil, rocky: 4th rate. Timber, cedar. Underbrush, cedar. Mountainous land covered with dense underbrush or loose rocks, exceptionally difficult to survey, 85.78 chs. May 27th, 1909.

chains

May 28: At 6h.00m., a.m., l.m.t., I set off 34°50'N. on the lat. arc; 21°27, 1/2'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 28, 29, 32 and 33.

Thence I run

South bet. secs. 32 and 33.

Ascend rough N. slope over loose rocks.

4.00 Top of ridge, bears E. and W. Desc. rough slope over loose rocks.

21.00 Wash, 50 lks. wide, course W. Asc. steep slope over loose rocks.

25.25 Dim Road, bears NW and SE.

34.00 Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.

40.00 Set a granite stone, 18X6X5 ins., 12 ins. in the ground, for 1/4 sec. cor. marked 09 1/4 on W. face; dig pits, 18X18X12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3, 1/2 ft. base, 1, 1/2 ft. high, W. of cor.

51.20 Wash, 20 lks. wide, course SW. Along steep W. slope over loose rocks.

56.10 Wash, 10 lks. wide, course NW. Asc. rough steep NE. slope over loose rocks.

65.00 Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.

71.30 Wash, 5 lks. wide, course NE. Asc. steep slope over loose rocks.

76.00 Intersect the 4th Standard Parallel (83 lks. <sup>58°58'</sup> of the standard cor. of secs. 32 and 33. Set a granite stone, 18X10X4 ins., 12 ins. in the ground, for closing cor. bet. secs. 32 and 33; marked 09 CC on N. with 2 grooves on W. and 4 grooves on the E. face; and raise a mound of stone, 2 ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; 4th rate.

No timber and underbrush.

Mountainous land covered with loose rocks, exceptionally difficult to survey, 76.00 chs.

N 0°02'W. bet. secs. 28 and 29.

Descending steep N. slope over loose rocks.

8.75 Drain, course NW. Asc. over spur over loose rocks.

13.00 Top of spur, bears E. Desc. steep slope over loose rocks.

17.35 Wash, 20 lks. wide, course W. Asc. steep slope over loose rocks.

32.00 Top of ridge, bears E and W. Desc. steep slope over loose rocks.

40.00 Set a malpais stone, 20X12X8 ins., 15 ins. in the ground, for 1/4 sec. cor. marked 09 1/4 on W. face. from which,

A cedar, 14 ins. in diam., bears S 16 1/4° E. 85 lks. dist., marked: 09 1/4 S 28 FT.

A cedar, 14 ins. in diam., bears S 66° W. 31 lks. dist., marked: 09 1/4 S 29 FT.

44.00 Wash, 05 lks. wide, course W. Asc. steep slope over loose rocks.

58.00 Top of ridge, bears E and W. Desc. steep slope over loose rocks.

68.00 Wash, 20 lks. wide, course W. Asc. steep slope over loose rocks.

70.20 Road, bears NE and SW.

80.00 Set a malpais stone, 20X8X6 ins., 15 ins. in the ground, for cor. of secs. 20, 21, 28 and 29; marked 09 on NE. with 2 notches on S. and 4 notches on E. edge. dig pits, 18X18X12 ins., in each sec. 5, 1/2 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous.

Soil, rocky.

No timber.

Mountainous land covered with loose rocks exceptionally difficult to survey, 80.00 chs.

chains.	
	East on random line bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect the N. and S. line 3 lks. S. of the cor. of secs. 21, 22, 27 and 28.
	Thence I run
	S $89^{\circ}59'W$ . on true line bet. secs. 21 and 28.
	Descend steep slope over loose rocks, thru scattering timber and underbrush.
2.00	Wash, 10 lks. wide, course 'NW.
3.50	Wash, 20 lks. wide, course N. Asc. steep slope over loose rocks.
31.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
40.02	Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked 09 $\frac{1}{4}$ on N. face; from which.
	A cedar 10 ins. in diam., bears N $36^{\circ} E$ . 226 lks. dist., marked; 09 $\frac{1}{4}$ S 21 BT.
	A cedar 12 ins. in diam., bears S $62^{\circ} E$ . 40 lks. dist., marked; 09 $\frac{1}{4}$ S 28 BT.
43.20	Wash, 10 lks. wide, course NW. Asc. steep slope over loose rocks.
60.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
73.50	Wash, 50 lks. wide, course S. Asc. steep slope over loose rocks.
74.55	Road, bears N. and S.
80.04	The cor. of secs. 21, 20, 28 and 29.
	Land, mountainous.
	Soil, rocky: 4th rate.
	Timber, cedar.
	Underbrush, cedar.
	Mountainous land covered with loose rocks and scattering timber and underbrush, exceptionally difficult to survey, 80.04 chs.
	May 28: At this cor. I set off $21^{\circ}27'$ , $1\frac{1}{2}'N$ . on the decl. arc and observe the sun on the meridian at noon the resulting lat. is $34^{\circ}51'N$ .
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	N $0^{\circ}02' W$ . bet. secs. 20 and 21.
	Asc. steep S. slope over loose rocks.
40.00	Set a granite stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; and raise a mound of stones, 2 ft. base, 1, $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
43.00	Ascend steep bare granite hill
48.30	Top of bare granite hill. Desc. steep slope over bare granite rocks.
51.00	Foot of bare granite hill. Along steep E. slope over loose rocks.
53.00	Saddle in ridge, Asc. steep S. slope over loose rocks.
60.00	Along steep E. slope over loose rocks.
80.00	Set a malpais stone, 18X10X4 ins., 12 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked 09 on NE. with 3 notches on S., and 4 notches on E. edge. from which,
	A cedar 8 ins. in diam., bears N $29, \frac{3}{4}^{\circ}W$ . 196 lks. dist., marked; 09 T 17 N R 1 W S 17 BT.
	A cedar 14 ins. in diam., bears N $79, \frac{3}{4}^{\circ}E$ . 96 lks. dist., marked; 09 T 17 N R 1 W S 16 BT.
	No other trees available. Raise a mound of stones, 2 ft. base, 1, $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky: 4th rate.
	No timber or underbrush,
	Mountainous land covered with loose rocks, exceptionally difficult to survey, 80.00 chs.

Subdivision of Tp. 17 N., Rg 1 W.

chains	N 89°59' E. on random line bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect the N. and S. line at the cor. of secs. 15, 16, 21 and 22.
	Thence I run
	S 89°59' W. on true line bet. secs. 16 and 21.
	Descend steep slope thru dense underbrush over loose rocks.
11.60	Wash, 150 lks. wide, course NW. Asc. steep slope over loose rocks.
30.10	Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.
40.05	Set a malpais stone, 16x12x10 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked 09 $\frac{1}{4}$ on N. face; from which, A cedar 20 ins. in diam., bears N 19, 1/2° E. 161 lks. dist., marked: 09 $\frac{1}{4}$ S 16 BT. A cedar 7 ins. in diam., bears S 67° W. 174 lks., dist., marked: 09 $\frac{1}{4}$ S 21 BT.
42.30	Wash, 30 lks. wide, course NE. Asc. steep slope over loose rocks.
51.60	Road, bears N. and S.
52.10	Wash, 15 lks. wide, course NE.
56.30	Same wash, 15 lks. wide, course SE.
62.00	Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.
65.10	Drain, course NE. Asc. steep slope over loose rocks.
80.10	The cor. of secs. 16, 17, 20 and 21.
	Land, mountainous.
	Soil, rocky: 4th rate.
	Timber, scattering cedar.
	Underbrush, scrub oak and cedar.
	Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 80.10 chs.
	May 28th, 1909.
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	May 29: At 6h. 00m., a.m., l.m.t., I set off 34°52' N. on the lat. arc; 21°37' N. on the decl. arc. and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21
	Thence I run
	N 0°02' W. bet. secs. 16 and 17.
	Along steep E. slope over loose rocks, thru scattering timber and underbrush.
2.00	Descend steep N. slope over loose rocks.
10.30	Wash, 15 lks. wide, course NE. Asc. steep slope over loose rocks.
19.00	Top of ridge, bears SW. and NE. Desc. steep slope over loose rocks.
40.00	Set a malpais stone, 16x10x6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which A cedar, 8 ins. in diam., bears N 59 1/4° E. 160 lks. dist., marked: 09 $\frac{1}{4}$ S 16 BT. No other tree available. Raise a mound of stone, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.
48.00	Drain, course NE. Along steep E. slope over loose rocks.
65.50	Wash, 100 lks. wide, course NW. Along steep W. slope over loose rocks.
80.00	Set a limestone, 24x10x6 ins., 18 ins. in the ground, for cor. of secs. 8, 9, 16, and 17, marked 09 on NE. face, with 4 notches on S. and E. edges. From which, A cedar 16 ins. in diam., bears S 57, 1/2° W. 397 lks. dist., marked: 09 T 17 N R 1 W S 17 BT. A cedar 14 ins. in diam., bears N 40° W. 385 lks. dist., marked: 09 T 17 N R 1 W S 8 BT. No other trees available. Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky: 4th rate.
	Timber, scattering cedar.
	Underbrush, cedar and scrub oak.
	Mountainous land covered with loose rocks and scattering timber and underbrush, except onally difficult to

chains.	
	survey, 80.00 chs.
	N 89°59' E. on random line bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.24.	Intersect the N. and S. line 14 lks. S. of the cor. of sec 9, 10, 15 and 16.
	Thence I run
	S 89°53' W. on true line bet. secs. 9 and 16.
	Ascending steep slope over loose rocks thru dense timber and underbrush.
4.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
7.60	Wash, 10 lks. wide, course SW. Asc. steep slope over loose rocks.
14.00	Leave timber, bears N. and S.
21.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
21.38	Road, bears N. and S.
30.80.	Wash, 30 lks. wide, course NW.
40.12	Point for $\frac{1}{4}$ sec. cor. falls in wash, 50 lks. wide, course NW. Asc. steep slope over loose rocks.
40.70	Set a limestone, 24X8X8 ins., 18 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked 09 WC $\frac{1}{4}$ on N. face; From which, A cedar 24 ins. in diam., bears N 27, 1/2° W. 195 lks. dist., marked: 09 WC $\frac{1}{4}$ S 9 BT. A cedar 20 ins. in diam., bears S 12, 1/2° E. 146 lks. dist., marked: 09 WC $\frac{1}{4}$ S 16 BT.
43.75	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
48.00	Wash, 15 lks. wide, course NW. Asc. steep slope over loose rocks.
52.25	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
57.00	Wash, 10 lks. wide, course N. Asc. steep slope over loose rocks.
61.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
68.50	Wash, 10 lks. wide, course NW. Asc. steep slope over loose rocks.
72.25	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
74.50	Drain, course NW. Asc. steep slope over loose rocks.
79.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
80.24	The cor. of secs. 8, 9, 16 and 17. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar. Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.24 chs.
	N 0°02' W. bet. secs. 8 and 9.
	Ascending steep S. slope over loose rocks, thru dense underbrush.
1.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
17.80	Wash, 60 lks. wide, course NE. D
24.00	Same wash, 60 lks. wide, course NW.
25.90	Wash, 30 lks. wide, course NW. Asc. steep slope over loose rocks.
29.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
36.50	Wash, 70 lks. wide, course NE. Asc. steep slope over loose rocks.

## Subdivision of Tp. 17 N., Rg. 1 W.

chains.	
40.00	Set a limastone, 16X12X7 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which A cedar 4 ins. in diam., bears N 60° W. 116 lks. dist., marked: 09 $\frac{1}{4}$ S 8 BT. No other tree available. Raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.
46.50	Top of ridge, bears SW. Desc. steep slope over loose rock
58.00	Wash, 10 lks. wide, course NE.
69.00	Wash, 100 lks. wide, course NW. Asc. steep slope over loose rocks.
74.00	Road, bears NW and SE.
80.00	Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 8, and 9, marked 09 on NE. face; with 5 notches on the S. and 4 notches on the E. edges. From which, A cedar, 30 ins. in diam., bears S 34° 40' E. 296 lks. dist., marked: 09 T 17 N R 1 W S 9 BT. No other trees available. Dig pits, 18X18X12 ins., in each sec. 5, 1/2 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, mountainous. Soil, rocky. NO timber. Underbrush, currant and scrub oak. Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 80.00 chs. May 29: At this cor. I set off 21° 37' N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. being, 34° 53, 1/2' N.
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	N 89° 53' E. on random line bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.24	Intersect the N. and S. line 30 lks. N. of the cor. of secs. 3, 4, 9 and 10. Thence I run N 89° 54' W. on true line bet. secs. 4 and 9. Descending steep SW. slope over loose rocks, thru dense underbrush.
2.00	Wash, 80 lks. wide, course N. Asc. steep high hill, over loose rocks.
27.00	Top of Ridge, bears NE and SW. Desc. steep slope over loose rocks.
39.24	Foot of ridge, bears NE and SW. over rolling land thru scattering timber and dense underbrush,
40.12	Set a granite stone, 18X12X4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked 09 $\frac{1}{4}$ on N. face; dig pits, 18X18X12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth, 3, 1/2 ft. base, 1, 1/2 ft. high, N. of cor.
80.24	The cor. of secs. 4, 5, 8 and 9. Land, mountainous and rolling. Soil, rocky and gravelly; 3rd and 4th rate. Timber, cedar. Underbrush, wild currant, scrub oak and cedar. Mountainous land or land covered with dense underbrush, 41.00 chs. Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 39.24 chs.
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	N 0° 02' W. bet. secs. 4 and 5. Ascending steep S. slope over loose rocks.
13.10	Wire fence, bears NW. and SE.
14.00	Top of high hill. Desc. steep N. slope over loose rocks.
16.00	Asc. along steep slope over loose rocks.
19.24	Intersect the S. Bdy. of Tract No. 38, 1.17 chs. N 88° 44' W. of cor. No. 4. Set a limestone, 20X12X8 ins., 15 ins. in the ground, for closing cor. marked 09 CC on S., PC on N. with 4 grooves on E. face. From which

135

Subdivision of Tp. 17 N., Rg. 1 W.

chains.

A cedar 5ins.in diam., bears S 28°35'W. 87 lks. dist., marked: 09 CC T 17 N R 1 W S 5 BT. No other tree available. Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, S. of cor. Pits impracticable. Burke's house bears N 36°E., 39.00 chs.

58.75 Thence on blank line across private claim. Intersect the N. Rdy. of Tract. No. 38, 17.09 chs. S 89°04'E. of cor. No. 2. Set a limestone, 23X10X8ins., 17ins. in the ground for closing cor., marked 09 CC on N., PC on S., with 4 grooves on E. face; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.

64.00 Top of ridge, bears E. and W. Desc. steep slope over loose rocks.

66.50 Wash, 15 lks. wide, course E. Asc. steep slope over loose rocks.

77.00 Top of ridge, bears E. Desc. steep slope over loose rocks

85.77 Intersect the S. Rdy. of Tp. 18 N., 1.10 chs. E. of the cor. of secs. 32 and 33. Set a limestone, 18X12X6ins., 12 ins. in the ground, for closing cor. bet. secs. 4 and 5; marked 09 CC on S., with 2 grooves on W. and 4 grooves on E. faces; dig pits, 24X18X12ins., crosswise on each line, E. and W. of stone, 3 ft. dist., and S. of stone, 7ft. dist.,; and raise a mound of earth, 4ft. base, 2ft. high, S. of cor.

Land, mountainous. Soil, rocky; and sandy; 2nd and 4th rate. Timber, a few cedar. Underbrush, cedar and wild currant. Mountainous land covered with loose rocks, exceptionally difficult to survey, 85.77 chs.

May 29th, 1909.

May 30: At 6h.00m., a.m., 1.m.t., I set off 34°50'N. on the lat. arc: 21°46'N. on the decl. arc and determine the true meridian with the solar at the cor. of secs. 29, 30, 31 and 32.

Thence I run South bet. secs. 31 and 32. Ascend steep N. slope over loose rocks, thru timber.

8.00 Leave timber, bears E. and W.

10.00 Top of ridge, bears E. and W. Desc. steep slope over loose rocks.

19.30 Wash, 20 lks. wide, course SW. Asc. steep slope over loose rocks.

29.00 Top of ridge, bears E. and W. <sup>Descend</sup> Along top of rough ridge, over loose rocks and boulders

37.00 Desc. steep slope over loose rocks.

40.00 Set a malpais stone, 18X12X6ins., 12ins. in the ground, for 1/4 sec. cor. and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

59.80 Wash, 15 lks. wide, course SW.

64.50 Granite Creek, 100 lks. wide, course NW. Asc. steep slope over loose rocks.

75.76 Intersect the 4th. Standard Parallel, <sup>N</sup> 68 lks. <sup>S 89°34'E</sup> of the standard cor. of secs. 31 and 32. Set a granite stone, 18X8X6ins., 12ins. in the ground, for closing cor. bet. secs. 31 and 32., marked 09 CC on N., with 1 groove on W., and 5 grooves on the E. face; and raise a mound of stone, 2ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.

Land, mountainous. Soil, stony and rocky: 4th rate. Timber, cedar. No underbrush; Mountainous land covered with loose rocks, exceptionally difficult to survey, 75.76 chs.

N 0°03' W. bet. secs. 29 and 30. Descending steep slope over loose rocks thru scattering timber.

2.00 Leave timber, bears E. and W.

Subdivision of Tp.17 N., Rg.1 W.

chains	
4.45	Road, bears NE and SW.
5.30	Wash, 25 lks. wide, course SW.
15.00	Wash, 30 lks. wide, course SW. Asc. steep slope over loose rocks.
40.00	Set a malpais stone, 18X6X4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on W. face; from which, A cedar, 10 ins. in diam., bears N 2° W. 284 lks. dist., marked; 09 1/4 S 30 FT. NO other tree available. Raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.
70.00	along steep E. slope of ridge, over loose rocks.
80.00	Set a malpais stone, 18X12X12 ins., 12 ins. in the ground, for cor. of secs. 19, 20, 29 and 30; marked 09 on NE., with 2 notches on S. and 5 notches on the E. edges.; and raise a mound of stone, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, stony and rocky: 4th rate. Timber, cedar. No underbrush. Mountainous land covered with loose rocks, exceptionally difficult to survey, 80.00 chs.
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40.00	East on random line bet. secs. 20 and 29. Set temp. 1/4 sec. cor.
80.20	Intersect the N. and S. line 7 lks. N. of the cor. of secs. 20, 21, 28 and 29. Thence I run N 89° 57' W. on true line bet. secs. 20 and 29. Ascend steep slope over loose rocks.
13.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
20.75	Wash, 20 lks. wide, course SE. Asc. steep slope over loose rocks.
25.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
39.00	Wash, 10 lks. wide, course SE.
39.80	Wash, 10 lks. wide, course SE. Asc. steep slope over loose rocks.
40.10	Set a limestone, 18X10X4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on N. face; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.
52.00	Top of high Granite ridge, bears N. and S. Desc. steep preceptitious slope over loose rocks.
70.00	Wash, 10 lks. wide, course S. Asc. steep slope over loose rocks.
80.20	The cor. of secs. 19, 20, 29 and 30. Land, mountainous and rugged. Soil, rocky: 4th rate. No timber or underbrush. Mountainous land covered with loose rocks exceptionally difficult to survey, 80.20 chs. May 30: At this cor. I set off 21° 46' N. on the decl. arc and observe the sun on the meridian at noon; the resulting is 34° 51' N. ✓
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5.00	West bet. secs. 19 and 30. Ascending steep slope of ridge over loose rocks. Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
21.00	Along steep N. slope over loose rocks.
36.00	Descend steep W. slope over loose rocks.
40.00	Set a malpais stone, 18X8X4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on N. face; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.
45.20	Drain, course NW. asc. steep slope over loose rocks.

## Subdivision of Tp. 17 N. Rg. 1 W.

chains.	
47.00	Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.
50.65	Wash, 40 lks. wide, course SW Asc. steep slope over loose rocks.
64.00	Top of saddle in ridge, bears NE and SW. Along steep N. slope over loose rocks, thru dense timber.
80.64	Intersect the W. Rdy. of the Tp. 7.20 chs. S 0° 14' E. of cor. of secs. 24 and 25. <sup>T 17 N. R 2 W</sup> Set a malpais stone, 18X10X8 ins., 12 ins. in the ground, for closing cor. bet. secs. 19 and 30. marked 09 CC on E., with 2 grooves on S. and 4 grooves on N. faces; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, E. of cor. Pits impracticable. Land, mountainous. Soil, rocky: 4th rate. Timber, cedar. No underbrush. Mountainous land covered with loose rocks, exceptionally difficult to survey, 80.64 chs.
	N 0° 03' W. bet. secs. 19 and 20. Along steep E. slope over loose rocks.
12.00	Ascend steep S. slope over loose rocks.
19.00	Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.
37.50	Wash, 20 lks. wide, course W. Asc. steep slope over loose rocks.
40.00	Set a malpais stone, 24X10X8 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on W. face: from which, A cedar, 6 ins. in diam., bears S 92° E. 231 lks. dist., marked: 09 1/4 S 20 BT. No other tree available. Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.
41.00	Top of ridge, bears SE and NW. Desc. steep slope over loose rocks.
55.50	Wash, 15 lks. wide, course NE. Asc. steep slope over loose rocks.
58.00	Along steep E. slope over loose rocks.
80.00	Set a limestone, 16X7X6 ins., 11 ins. in the ground, for cor. of secs. 17, 18, 19, 20: marked 09 on NE. with 3 notches on S., and 5 notches on E. edges; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky: 4th rate. Timber, scattering cedar. No underbrush. Mountainous land covered with loose rocks exceptionally difficult to survey, 80.00 chs.
	May 30th, 1909.
	May 31: At 6h. 00m. a.m., l.m.t., I set off 34° 52' N. on the lat. arc: 21° 55' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20. Thence I run S 89° 57' E. on random line bet. secs. 17 and 20.
40.00	Set temp. 1/4 sec. cor.
80.20	I ntersect the N. and S. line 3 lks. N. of the cor. of secs. 16, 17, 20 and 21. Thence I run N 89° 56' W. on true line bet. secs. 17 and 20. Ascending steep slope over loose rocks.
12.00	Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.
26.00	Wash, 15 lks. wide, course NW. Asc. steep slope over loose rocks.
35.00	Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.

## Subdivision of Tp.17 N.,Rg. 1 W.

chains.	
40.10	Set a malpais stone, 24X8X4ins., 18ins. in the ground, for $\frac{1}{4}$ sec' cor. marked 09 $\frac{1}{4}$ on N. face; from which, A cedar, 6ins. in diam., bears S18° E. 59 lks. dist., marked; 09 $\frac{1}{4}$ S 20 BT. A cedar, 6ins. in diam., bears N 23, 3/4° E. 147 lks. dist., marked; 09 $\frac{1}{4}$ S 17 BT.
46.00	Wash, 15 lks. wide, course NW. Asc. steep slope over loose rocks.
50.00	Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.
55.00	Wash, 10 lks. wide, course NW. Asc. steep slope over loose rocks.
60.00	Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.
65.00	Wash, 10 lks. wide, course NW. Asc. steep slope over loose rocks.
72.00	Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.
76.00	Wash, 30 lks. wide, course N. Asc. steep slope over loose rocks.
80.20	The cor. of secs. 17, 18, 19, and 20. Land, mountainous. Soil, rocky; 4th rate. Timber, scattering cedar. No underbrush. Mountainous land covered with loose rocks, exceptionally difficult to survey, 80.20 chs.
West bet. secs. 18 and 19.	
1.00	Ascending steep slope over loose rocks. Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.
5.00	Along steep N. slope over loose rocks.
10.00	Wash, 10 lks. wide, course NE. Asc. steep slope over loose rocks.
15.00	Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.
20.00	Wash, 10 lks. wide, course NE. Asc. steep slope over loose rocks.
24.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
25.00	Wash, 10 lks. wide, course NE. Asc. steep high hill over loose rocks.
36.46	Top of hill which is End of ridge, bears SW. Along steep N. slope over loose rocks.
40.00	Set a malpais stone, 20X6X6ins., 15ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N.; and raise a mound of stone 2ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.
44.00	Wash, 10 lks. wide, course NE. Asc. steep slope over loose rocks.
56.75	Foot of precipitous granite bluff. Asc.
58.50	Top of granite bluff. U.S. Geological Survey monument bears S. 20 lks. Desc. steep precipitous granite bluff.
62.00	Foot of bluff. Desc. steep slope over loose rocks.
79.21	Intersect the <sup>W</sup> Rdy of Tp. 5.95 chs. <sup>S. of 13 W</sup> of the cor. of secs. 13 and 24. <sup>N. R. 2 W</sup> Set a malpais stone, 18X8X6ins., 12ins. in the ground, for closing cor. bet. secs. 18 and 19., marked 09 CC on E., with 3 grooves on N. and S. faces; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, E. of cor. Pits impracticable. Land, mountainous and rough. Soil, rocky; 4th rate. No timber or underbrush. Mountainous land covered with loose rocks exceptionally difficult to survey, 79.21 chs.

subdivision of Tp 17 N Rg 1 W

chains.	
	N0°03'W. bet.secs.17 and 18.
5.00	Ascending along steep slope over loose rocks.
9.50	Top of ridge,bears SW and NE.Desc,steep slope into wash over loose rocks.
12.00	Wash,30 lks.wide,course NW. Asc.steep slope ove loose rocks.
17.00	Along steep W. slope over loose rocks.
25.50	Top of ridge,bears SE. Desc.steep slope over loose rocks.
35.00	Wash,65 lks.wide,course NW. Asc.steep slope over loose rocks.
40.00	Top of ridge,bears NW and SE. Desc.steep slope over loose rocks.
44.00	Set a malpais stone,16X8X6ins.,11ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked 09 $\frac{1}{4}$ on W.face; and raise a mound of stones,2ft.base,1,1/2 ft.high,W. of cor. Pits impracticable.
55.00	Wash,50 lks.wide,course NW. Asc.steep slope over loose rocks.
65.00	Top of high hill. Along steep E. slope over loose rocks
70.00	Desc.steep N. slope over loose rocks.
80.00	Along steep E. slope over loose rocks.
	Set a malpais stone,24X6X10ins.,18ins.in the ground,for cor.of secs.7,8,17 and 18.,marked 09 on NE.,with 4 notches on S. and 5 notches on E.edges.; and raise a mound of stone,2ft.base,1,1/2 ft.high,W. of cor. Pits impracticable.
	Land,mountainous.
	Soil,rocky; 4th rate.
	No timber or underbrush.
	Mountainous land covered with loose rocks,exceptionally difficult to survey,80.00 chs.
	May 31; At this cor.I set off 21°55'N. on the decl arc and observe the sun on the meridian at noon; the resulting lat.is 34°53'N.
	S 89°56'E. on random line bet.secs.8 and 17.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.32	Intersect the N.and S.line 14 lks.N. of the cor.of secs 8,9,16 and 17.
	Thence I run.
	N 89°50'W. on true line bet.secs.8 and 17.
	Descendingsteep slope over loose rocks.
3.75	Wash,100 lks.wide,course N. Asc,steep slope over loose rocks.
8.00	Top of ridge,bears N.and S. Desc.steep slope over loose rocks.
12.80	Wash,50 lks.wide,course N. Asc.steep slope over loose rocks.
21.00	Top of ridge,bears N. and S. Desc.steep slope over loose rocks.
28.75	Wash,15 lks.wide,course NE. Asc.steep slope over loose rocks.
36.00	Top of ridge,bears N. and S. Desc.steep slope over loose rocks.
40.16	Set a limestone,18X8X8ins.,12ins.in the ground,for $\frac{1}{4}$ sec.cor. marked 09 $\frac{1}{4}$ on N. face; from which, A cedar 4ins.in diam.,brs.S 21°E. 145 lks. dist., marked; 09 $\frac{1}{4}$ S 17 BT.
41.80	No other tree available. Raise a mound of stones,2ft. base,1,1/2 ft.high,N. of cor. Pits impracticable.
47.00	Wash,15 lks.wide,course NE.Asc.steep slope over loose rocks.
54.40	Top of ridge,bears N.and S. Desc.steep slope over loose rocks.
58.00	Wash,100 lks.wide,course N. Asc.steep slope over loose rocks.
	Top of ridge,bears NE and SW. Desc.steep slope over loose rocks.

Subdivision of Tp. 17 N., Rg. 1 W.

chains.  
69.00 Wash, 50 lks. wide, course NE. Asc. steep slope over loose rocks.  
80.32 The cor. of secs. 7, 8, 17 and 18. Land, mountainous. Soil, rocky; 4th rate. No timber or underbrush. Mountainous land covered with loose rocks, exceptionally difficult to survey, 80.32 chs.

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West bet. secs. 7 and 18. Ascending steep E. slope over loose rocks.  
1.00 Top of ridge, bears N. and S. Desc. steep slope over loose rocks.  
7.00 Along steep N. slope over loose rocks.  
20.00 Desc. steep W. slope over loose rocks.  
25.00 Wash, 100 lks. wide, course NW. Asc. steep slope over loose rocks.  
40.00 Set a malpais stone, 20X14X10 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked 09  $\frac{1}{4}$  on N., and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.  
41.25 Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.  
45.00 Wash, 15 lks. wide, course N. Asc. steep slope over loose rocks.  
48.50 Top and over nearly level land covered with loose rocks and boulders exceptionally difficult to walk over  
55.00 Desc. steep slope into deep canyon over loose rocks.  
64.00 Wash, 20 lks. wide, course N. Asc. steep slope over loose rocks.  
74.00 Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.  
79.00 Intersect the W. Bdy. of the Tp. 6.54 chs. S0°6'W. of cor. of secs. 12 and 13. <sup>77°N. 82°W.</sup> Set a malpais stone, 18X12X4 ins., 12 ins., in the ground, for closing cor. bet. secs. 7 and 18. marked 09 CC on E. face, with 4 grooves on the S. and 2 grooves on the N. faces; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, E. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th rate. No timber or underbrush, Mountainous land covered with loose rocks exceptionally difficult to survey, 79.00 chs.

May 31st, 1909.

June 1st: At 6h.00m., a.m., l.m.t., I set off 34°53'N. on the lat. arc; 22°03'N. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 7, 8, 17, and 18.  
Thence I run  
N 0°03' W. bet. secs. 7 and 8. Desc. steep slope over loose rocks.  
5.00 Wash, 10 lks. wide, course E. Asc. steep slope over loose rocks.  
9.50 Top of ridge, bears E. and W. Desc. steep slope over loose rocks.  
24.30 Wash, 25 lks. wide, course NW. Asc. steep slope over loose rocks.  
33.00 Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.  
35.00 Wash, 10 lks. wide, course NW. Asc. steep slope over loose rocks.  
38.50 Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.  
40.00 Set a limestone, 16X8X6 ins., 11 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked 09  $\frac{1}{4}$  on W. face; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

Subdivision of Tp.17 N.,Rg.1 W.

chains	
43.00	Wash, 05 lks. wide, course NW. Asc. steep slope over loose rocks.
45.10	Top of ridge, bears E. and W. Desc. steep slope over loose rocks. J. Glenn's house bears S 72° 50' W.
57.45	S. bank of Verde river course E.
59.90	N. bank of Verde river.
60.14	Intersect the S. Bdy. of Tract No. 39, 13 lks. N 89° 48' E. of cor. 3.; Set a granite stone, 18x12x7 ins., 12 ins. in the ground for closing cor. marked 09 CC on S., PC on N., with 5 grooves on E. face; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, S. of cor. Pits impracticable. Thence on blank line across private claim.
80.00	The old cor. of secs. 5, 6, 7, and 8, which I destroy; Set a limestone, 18x10x10 ins., 12 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked 09 on NE., with 5 notches on S. and E. edges. from which, An ash 6 ins. in diam., bears S 25° W. 214 lks. dist., marked; 09 T 17 N R 1 W S 7 BT. No other trees available. Raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. J. Nelson's house bears S 14° E. 13.00 chs. Land, mountainous. Soil, stony and rocky; 3rd and 4th rate. No timber or underbrush. Mountainous land covered with loose rocks exceptionally difficult to survey, 80.00 chs.
40.00	S 89° 50' E. on random line bet. secs. 5 and 8. Set temp. 1/4 sec. cor.
80.32.	Intersect the N. and S. line 5 lks. S. of the cor. of secs 4, 5, 8 and 9, Thence I run N 89° 52' W. on true line bet. secs. 5 and 8. Descending steep slope over loose rocks.
7.55	Road, bears NW and SE.
11.30	Wash, 125 lks. wide, course N. Asc. steep slope over loose rocks.
13.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
20.60	Wash, 30 lks. wide, course N. Asc. steep slope over loose rocks.
23.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
27.00	Wash, 50 lks. wide, course NE. Asc. steep slope over loose rocks.
36.00	Top of ridge, bears N. and S. Desc. steep slope over 1 loose rocks.
40.18	Set a limestone, 16x7x9 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on N. face; from which, A cedar, 8 ins. in diam., bears N 35° 40' W. 90 lks. dist., marked; 09 1/4 S 5 BT. A cedar 7 ins. in diam., bears S 71° E. 100 lks. dist., marked; 09 1/4 S 8 BT.
43.60	Trail to Jerome Junction bears N. and S.
44.30	Wash, 20 lks. wide, course NE. Asc. steep slope over loose rocks.
60.15	Intersect the E. Bdy. of Tract No. 39, 07 lks. S 0° 54' W. of cor. No. 5; Set a limestone, 16x8x7 ins., 12 ins. in the ground, for closing cor., marked 09 CC on E., PC on W. with 5 grooves on S. face; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, E. of cor. Pits impracticable. J. Glenn's house bears S 39° 40' W. Thence on blank line across private claim.
80.32	The cor. of secs. 5, 6, 7 and 8. Land, mountainous. Soil, rocky; 4th rate. No timber or underbrush. Mountainous land covered with loose rocks exceptionally difficult to survey, 80.32 chs.

## Subdivision of Tp.17 N., Rg.1 W.

chains.	
	West bet. secs. 6 and 7
	Descending steep SW. slope over loose rocks.
8.50	E. bank of Verde river, course N.
13.00	W. bank of Verde river.
14.00	Wash, 75 lks. wide, course NE. Asc. steep precipitous slope over loose rocks.
25.00	Top of ridge, bears N. and S. Desc. steep precipitous slope over loose rocks.
33.40	Wash, 40 lks. wide, course SE. Asc. steep slope over loose rocks thru dense timber and underbrush,
39.00	Desc. steep NW. slope over loose rocks.
40.00	Set a limestone, 18X7X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked 09 $\frac{1}{4}$ on N. face; from which, A cedar 6 ins. in diam., bears S 64° E. 17 lks. dist., marked: 09 $\frac{1}{4}$ S 7 RT. A cedar 10 ins. in diam., bears N 30° W. 41 lks. dist., marked: 09 $\frac{1}{4}$ S 6 RT.
41.75	Same wash, 30 lks. wide, course NE. Asc. steep slope over loose rocks.
48.00	Desc. steep SW. slope over loose rocks and boulders.
54.00	Wash, 25 lks. wide, course SE. Asc. steep slope over loose rocks.
79.35	Wire fence, bears N. and S.
79.70	Intersect the W. Bdy. of Tp. 5.38 chs. S 0° 5' E. of cor. of secs. 1 and 12. <sup>TP. 17 N. R. 2 W.</sup> Set a malpais stone, 18X12X8 ins., 12 ins. in the ground, for closing cor. bet. secs. 6 and 7; marked 09 CC on E., with 5 grooves on S., and 1 groove on N. face; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high E. of cor. Pits impracticable. Land, mountainous. Soil, rocky: 4th rate. Timber, cedar. Underbrush, cedar. Mountainous land covered with loose rocks or dense timber, exceptionally difficult to survey, 79.70 chs. June 1; At this cor. I set off 22° 03', 1/2' N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 34° 53', 1/2' N.
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	N 0° 03' W. bet. secs. 5 and 6.
	Ascending steep precipitous slope over loose rocks.
3.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
7.00	Across river bottom.
10.35	S. edge of water of Verde river, course E.
13.05	N. edge of water. Asc. steep precipitous slope over loose rocks.
15.40	Top of ridge, bears E. and W. Desc. steep slope over 1 loose rocks.
25.00	Wash, 40 lks. wide, course SE. Asc. steep precipitous slope over loose rocks.
32.40	Along steep W. slope over loose rocks. Enter scattering timber.
39.60	Drain, course SW. Asc. steep slope over loose rocks.
40.00	Set a limestone, 18X8X4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which, A cedar, 6 ins. in diam., bears S 75, 1/2° E. 18 lks. dist., marked: 09 $\frac{1}{4}$ S 5 RT. A cedar 10 ins. in diam., bears N 64° W. 107 lks. dist., marked: 09 $\frac{1}{4}$ S 6 RT.
43.00	Top of ridge, bears E. and W.; Desc. steep slope thru dense timber and underbrush.
72.00	Thru scattering timber over loose rocks, along W. slope.
85.70	Intersect the S. Bdy. of Tp. 18 N.; Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for closing cor. bet. secs 5 and 6; marked 09 CC on S., with 5 grooves on E., and 1 groove on W. face; dig pits, 24X18X12 ins., crosswise on each line, E. and W. of stone, 3 ft. dist., and S. of stone, 7 ft. dist; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor. Cor. of secs. 31 & 32, T. 18 N. R. 1 W. brs. west 78 lks.

Subdivision of Tp.17 N.,Rg.1 W.

chains.

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, cedar.  
 Underbrush, cedar.  
 Mountainous land covered with loose rocks or dense  
 timber and underbrush, exceptionally difficult to  
 survey, 85.70 chs.

June 1st, 1909.

GENERAL DESCRIPTION.

This Tp. is rough and Mountainous and is generally cover  
 ed with a fair growth of cedar timber. The soil is  
 rocky excepting a narrow strip in the bottom of the  
 canyon of the Verde River, which flows through the  
 northern part of the Tp., which is a sandy loam and  
 produces a good crop with irrigation. There is one  
 settler living in sec. 4, one in sec, 7. <sup>and one in sec. 9</sup> IN making  
 this survey I destroyed the old corners.

*Alfred N. Bliss*  
 U. S. Deputy Surveyor.

*For authority for red ink corrections see  
 Deputy's letter of Dec. 15-1909.*

*For* FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.  
*see Book A. Subs. T 20 N. R 1 W.*

LIST OF NAMES.

A list of the names of the individuals employed by Alfred N. Oliver

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Private

Claim Lines and resurvey of the Subdivision Lines of Tps. 17, 18, 19 and 20 N. showing the respective capacities in which they acted:

Will W. Shawk....., *Chainman.*

Archie Johnston....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

W. R. Johnston....., *Axman.*

....., *Axman.*

R. R. Lane....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfred N. Oliver

....., United States Deputy Surveyor, in surveying all those parts or portions of the Private Claim Lines and resurveying the Subdivision Lines of Tps. 17, 18, 19 and 20 N. Rg. 1 W.

..... of the Gila and Salt River meridian, Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona

*Will W. Shawk*  
*Archie Johnston*

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

*W. R. Johnston*

....., *Axman.*

....., *Axman.*

*R. R. Lane*

....., *Flagman.*

Subscribed and sworn to before me this 17th day of July, 1909., 190

*Alfred N. Oliver*  
*U. S. Deputy Surveyor*



40  
44

*For* FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

*One Book A. Dub. T 20 N. R. 1 W.*

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_ United States Surveyor General for \_\_\_\_\_, bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 190 \_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_ of the \_\_\_\_\_ meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

\_\_\_\_\_  
*United States Deputy Surveyor.*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190 \_\_\_\_\_



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Phoenix, Ariz. April 27, 1908*

The foregoing field notes of the survey of \_\_\_\_\_ by notes and bounds of the private tracts in T<sub>20</sub> N. R. 1 W. and recovery of said township, Gila and Salt River Basins Meridian, Arizona.

executed by *Alfred N. Oliver* U.S. Deputy Surveyor under his contract No. *153*, dated *November 19*, 190*8*, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Frank J. Szyck*  
*United States Surveyor General.*

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

\_\_\_\_\_  
*United States Surveyor General.*