

Book C

Filing authorized, Letter E. 8/31/1910. 68

BOOK 2183 2183

# FIELD NOTES

OF THE SURVEY OF THE

2183

2183

Private Claim Lines and Resurvey of the Subdivision Lines of

Tp. 18 N. Rg. 1 W.

2183

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 19, 1909, 189

Survey commenced May 12, 1909, 189

Survey completed June 12, 1909, 189

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*No* NAMES AND DUTIES OF ASSISTANTS.

*See Book L. (Date J. 17 N. R. W.)*

Disposals and Valid Entries in T. 18 N., R. 1 W.

Description	Area	Kind	No.	Date	Name
NW $\frac{1}{4}$ Sec. 9	160	Hd.	1676	Feb.19,1902	Charles Brown
SW $\frac{1}{4}$ Sec. 35	160	Hd. F.C.	1547 850	Sept.6,1898 Sep.11,1905	George C. Brown
N $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 35 N $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 36	160	Pre.	277	Dec.14,1885	Thos. R. King (Pat.)
SE $\frac{1}{4}$ SW $\frac{1}{4}$ &SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 36	80	Pre.	250	Aug.13,1885	Frank Krell (See Sec.1, T. 17 N., R. 1 W.) (Pat.)

7230  
74  
739  
743

WE HEREBY CERTIFY that the above is a correct, full, and true list of all disposals and valid entries in T. 18 N., R. 1 W., G. & S. R. B. & M., Arizona, as shown by the records of this office.

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

*Thomas E Arnold*  
-----  
Receiver.

PHOENIX LAND OFFICE,

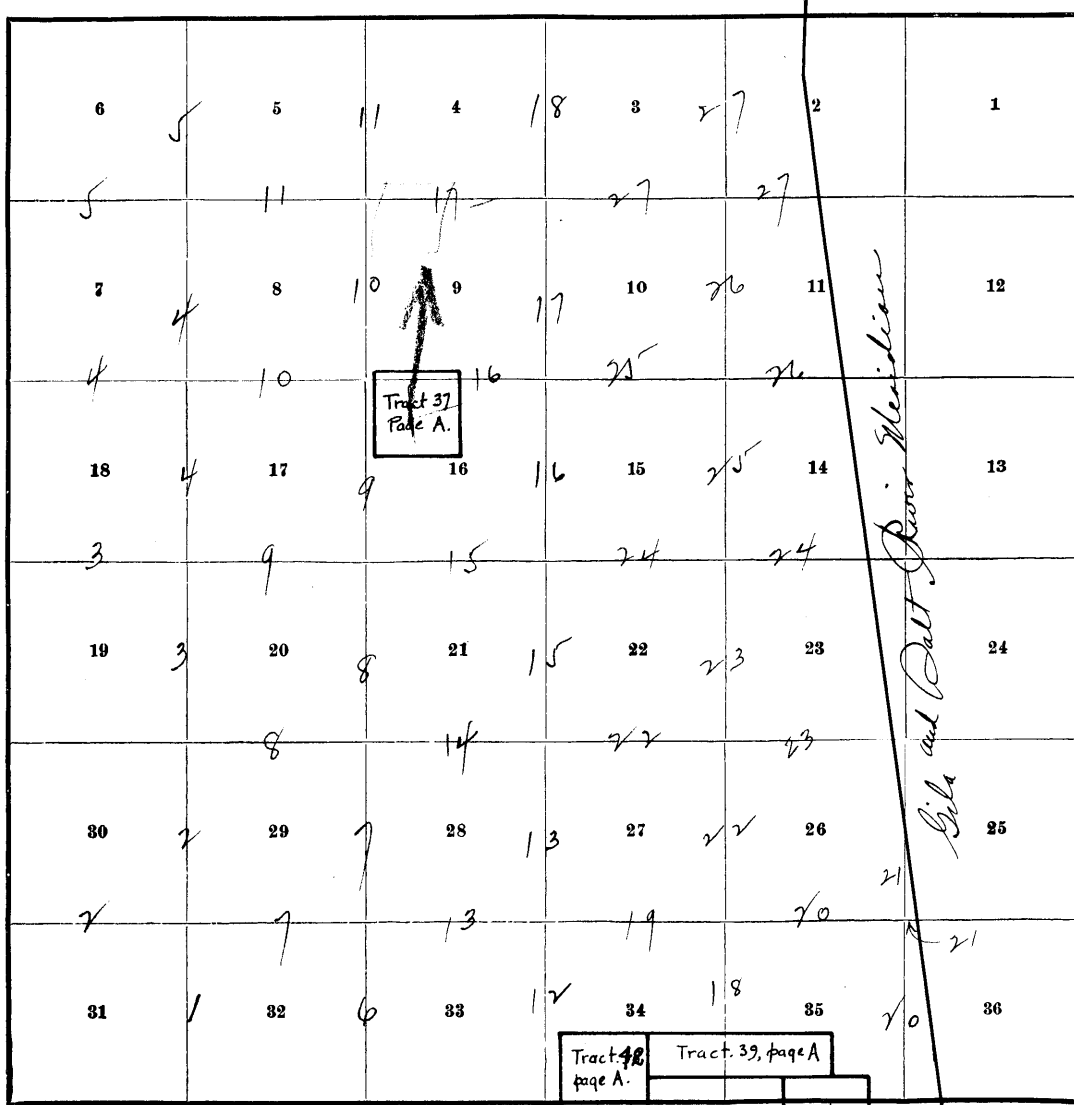
Phoenix, Arizona,

*Dec 13, 1908*

BOOK 2183

BOOK 2183  
INDEX DIAGRAM.

Township 18 N., Range 1 W.



Meanders Page.....

*Jr* PRELIMINARY OATHS OF ASSISTANTS.

*See Rules J17 A. R. W. Book A.*

WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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

\_\_\_\_\_, *Chainman.*

\_\_\_\_\_, *Chainman.*

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 189 }



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 \_\_\_\_\_, 189 }



WE, \_\_\_\_\_ 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 us, to the best of our skill and ability, in the survey of

\_\_\_\_\_, *Axman.*

\_\_\_\_\_, *Axman.*

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 189 }



I, \_\_\_\_\_, 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 \_\_\_\_\_

\_\_\_\_\_, *Flagman.*

Subscribed and sworn to before me this \_\_\_\_\_ }  
day of \_\_\_\_\_, 189 }



Metes and Bounds Survey in Township 18 North, Range 1 West.

Tract 37-Hd. 1676, Feb. 19, 1902; originally described as NW 1/4 Sec. 9 T18N R1W.

- Chains. May 12: At 7h. 00m., a.m., l.m.t., I set off 34° 59' N. on the lat. arc; 18° 05' N. on the decl. arc; and determine a meridian with the solar at the old 1/4 sec. cor. bet. secs. 4 and 9, which I destroy and in the same place set a malpais 18 x 10 x 8 ins. 12 ins. in the ground for cor. No. 1 of tract No. 37, marked 1-37 on S. W. face.  
Thence I run  
S. 88° 40' W.
- 40.05 Old sec. cor. which I destroy and in the same place set a malpais 18 x 10 x 8 ins. 12 ins. in the ground for cor. No. 2, marked 2-37 on S. E. face.  
Thence I run  
S. 0° 33' E.
- 40.30 Old 1/4 sec. cor. which I destroy and in the same place set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. No. 3, marked 3-37 on N. E. face.  
Thence I run  
N. 88° 33' E.
- 39.88 Cor. No. 4, set a sandstone 18 x 12 x 8 ins. 12 ins. in the ground for cor. No. 4, marked 4-37 on N. W. face.  
Thence I run  
N. 0° 14' W.
- 40.22 Cor. No. 1, place of beginning.  
May 12: At this cor. I set off 18° 07 1/2' N. on the decl. arc; and observe the sun on the meridian at noon: the resulting lat. is 34° 59' N. Area 160.90 Acres.

Tract 42-Hd. 1547, Sep. 6, 1898; F.C. 350, Sep. 11, 1905; originally described as SW 1/4 Sec. 35, T18N. R1W.

I commence at the N. E. cor. of tract No. 42, which is also the N. W. cor. of tract No. 39, I set a limestone 18 x 10 x 5 ins. 12 ins. in the ground for cor. No. 1 of tract No. 42 and cor. No. 8 of tract No. 39, marked 1-38 on S. W. and 3-39 on S. E. faces.

- Thence I run  
N. 89° 12' W.
- 37.49 Old 1/4 sec. cor. bet. secs. 33 and 34, which I destroy and in the same place set a limestone 16 x 12 x 5 ins. 11 ins. in the ground for cor. No. 2, marked 2-38 on S. E. face.  
Thence I run  
S. 0° 53' E.
- 40.05 Old sec. cor. which I destroy and in the same place set a limestone 16 x 10 x 6 ins. 11 ins. in the ground for cor. No. 3, marked 3-38 on N. E. face.  
Thence I run  
S. 88° 59' E.
- 37.59 Old 1/4 sec. cor. which I destroy and in the same place set a granite 16 x 14 x 4 ins. 11 ins. in the ground for cor. No. 4, marked 4-38 on N. W. face.  
Thence I run  
N. 1° 01' W.
- 40.20 Cor. No. 1, place of beginning.
- |                  |               |     |
|------------------|---------------|-----|
| Area, T18N. R1W. | 120.82        | Ac. |
| " T17N. R1W.     | 29.81         | "   |
| " Total          | 150.63        | "   |
|                  | May 12, 1909. |     |

Tract 39-Pre. 277, Dec. 14, 1885; originally described as N 1/2 SE 1/4 Sec. 35 and N 1/2 SW 1/4 Sec. 36, T18N. R1W. Patented.

May 13: At 7h. 00m., a.m., l.m.t., I set off 34° 55' N. on the lat. arc; 18° 20' N. on the decl. arc; and determine a meridian with the solar at the N. E. cor. of tract No. 39, which is a limestone 18 x 10 x 4 ins. set 12 ins. in the ground for cor. No. 1, marked 1-39 on S. W. face.

- Thence I run  
S. 89° 34' W.
- 40.26 Old 1/4 sec. cor. which I destroy and in the same place set a limestone 18 x 7 x 5 ins. 12 ins. in the ground for cor. No. 2, marked 2-39 on S. face.  
Thence I run

Note: Courses of Tract 42 are all marked 38

1E 72

Maise and Hounds Survey in Td. 18 N. Rg. 1 W.

Chains. N. 88° 22' W.  
 -39.86 Cor. No. 3, also cor. No. 1 of tract No 38, previously described.  
 Thence I run  
 S. 1° 01' E.  
 20.10 Cor. No. 4, -set a granite 24 x 15 x 9 ins. 18 ins. in the ground for cor. No. 4, marked 4-39 on N. E. face.  
 Thence I run  
 S. 98° 31' E.  
 39.93 Cor. No. 5, set a limestone 18 x 6 x 5 ins. 12 ins. in the ground for cor. No. 5, marked 5-39 on N. face.  
 Thence I run  
 N. 89° 34' E.  
 40.26 Cor. No. 6, set a granite 18 x 10 x 4 ins. 12 ins. in the ground for cor. No. 6, marked 6-39 on N. W. face.  
 Thence I run  
 N1° 09' W.  
 20.00 Cor. No. 1, place of beginning.  
 May 13: At this cor. I set off 18° 22 1/2' N. on the decl. arc: and observe the sun on the meridian at noon: the resulting lat. is 34° 55' N. Area, 160.37 Acres.

Tract 43-Pre.250, Aug.13, 1885; Originally described as SE 1/4 SW 1/4, SW 1/4 SE 1/4 Sec.36; T18N.R1W and Frac.N 1/2 NE 1/4 Sec.1, T17N.R1W. Patented.

I commence at the N. E. cor. of tract No. 39 which is a sandstone 16 x 9 x 6 ins. 11 ins. in the ground for cor. No. 1, marked 1-40 on S. W. face.

Thence I run  
 West

20.00 Cor. No. 2, of tract No. 39, which has been, previously described.

Thence I run  
 S. 89° 34' W.

20.13 Cor. No. 2, set a sandstone 18 x 8 x 7 ins. 12 ins. in the ground for cor. No. 2, marked 2-40 on S. E. face.

Thence I run  
 S. 1° 09' E.

20.00 Cor. No. 3, set a limestone 18 x 15 x 4 ins. 12 ins. in the ground for cor. No. 3, marked 3-40 on N. E. face.

Thence I run.  
 N. 89° 34' E.

20.06 Old 1/4 sec. cor. which I destroy and in the same place set a malpais 16 x 12 x 6 ins. 11 ins. in the ground for cor. No. 4, marked 4-40 on N.E. face.

Thence I run  
 S. 0° 25' W.

18.30 Cor. No. 5, set a limestone 16 x 12 x 7 ins. 11 ins. in the ground for cor. No. 5, marked 5-40 on N. E. face.

Thence I run  
 N. 89° 50' E.

39.92 Cor. No. 6, set a sandstone 16 x 8 x 6 ins. 11 ins. in the ground for cor. No. 6, marked 6-40 on N. W. face.

Thence I run  
 N. 0° 25' E.

18.18 Old sec. cor. which I destroy and in the same place mark a cross (x) on a sandstone in place 10 x 6 ft. 10 ins. above ground for cor. No. 7, marked 7-40 on S. W. of cross.

Thence I run  
 West

19.96 Cor No.8, mark a cross on a granite rock in place 4 x 3 x 1 1/2 ft. above ground, for cor. No. 8, marked 8-40 S. W. of cross.

Thence I run  
 N. 1° 09' W.

20.00 Cor. No. 1, place of beginning.

Area, T17N.R1W. 108.78 Acres.

" T18N.R1W. 44.25 "

" Total . 153.03 "

May 13, 1909.

Note - corners of Tract 43 are all marked 40

## Subdivision of Tp. 18 N., Rg. 1 W.

chains

Survey commenced June 3, 1909, and executed with a Young and Sons light mountain transit No. 7532, with solar attachment. The horizontal limb is provided with two double veriners placed opposite to each other, reading to single minutes of arc, which is also the least count of the veriners 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. 31 and 32, on the S. bdy. of Tp. 18 N., Rg. 1 W., previously established by me; latitude  $34^{\circ}54'30''$  N., longitude  $112^{\circ}23'44''$  W.; I set off  $34^{\circ}54'1/2''$  N. on the lat. arc;  $22^{\circ}23'$  N. on the decl. arc; and at 6h.00m., p.m., l.m.t., determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of my station.

June 3rd, 1909.

June 4th; At 2h.42m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the 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 W., and mark the meridian thus established by a cross on the stone set June 3, on which the meridian coincides with the meridian determined by the solar.

At 6h.00m., a.m., l.m.t., I set off  $34^{\circ}54'1/2''$  N. on the lat. arc;  $22^{\circ}26'1/2''$  N. on the decl. arc; and mark a point in the meridian thus determined with the solar, by a groove on the stone already set 5 chs. N. of my station, this mark coincides with the meridian established by Polaris observations.

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

The magnetic bearing on the true meridian at 6h.05m., a.m., is  $14^{\circ}40'$  W.; the angle thus determined gives the mag. decl.  $14^{\circ}40'$  E.

I commence at the cor. of secs. 31 and 32 previously described, on S. bdy. of Tp.

Thence I run—

N  $0^{\circ}12'$  E. bet. secs. 31 and 32.

Descending steep slope over loose rocks.

8.00 Wash course NE., ascend SE. slope, loose rocks.

11.00 Desc. steep NE. slope over loose rocks.

19.70 Wash, 35 lks. wide, course E. Along steep rocky W. slope over loose rocks and boulders.

40.00 Set a malpais stone, 20x10x8 ins., 15 ins. in the ground, for  $1/4$  sec. cor., marked 09  $1/4$  on W. face; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

50.00 Asc. steep Canyon wall over loose malpais boulders, and rocks.

55.60 Across mesa over loose malpais rocks and boulders exceptionally difficult to walk over.

61.00 Desc. steep slope into canyon over loose rocks and boulders.

67.00 Asc. steep canyon wall over loose rocks and boulders.

73.00 Across mesa over loose rocks and boulders exceptionally difficult to walk over.



## Subdivision of Tp.18 N.,Rg.1 W.

80.00	<p>Set a malpais stone, 24X8X6 ins., 18 ins. in the ground, for cor. of secs. 29, 30, 31 and 32. marked 09 on NE., with 5 notches on E., and 1 notch on S. edge; from which,  A cedar, 26 ins. in diam., bears S 85<math>\frac{1}{4}</math>° E. 191 lks. dist., marked: 09 T 18 N R 1 W S 32 BT.  A cedar 18 ins. in diam., bears N 38, 1/2° W. 150 lks. dist., marked: 09 T 18 N R 1 W S 30 BT.  No other tree available. Raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.  Land mountainous.  Soil, rocky; 4th rate.  Timber, cedar. No underbrush.  Mountainous land covered with loose rocks and land covered with loose rocks and boulders exceptionally difficult to survey, 80.00 chs.</p>
40.00	<p>West on random line bet. secs. 30 and 31.  Set temp. <math>\frac{1}{4}</math> sec. cor.</p>
80.00	<p>Intersect the W. Bdy. of Tp. 5 lks. N. of the cor. of secs. 25, 30, 31 and 36;  Thence I run  N 89° 58' E. on true line bet. secs. 30 and 31.  Over level land.</p>
40.00	<p>Set malpais stone, 20X8X6 ins., 15 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked 09 <math>\frac{1}{4}</math> on N. face; from which,  A cedar 26 ins. in diam., bears S 43, 1/2° W. 170 lks. dist., marked: 09 <math>\frac{1}{4}</math> S 31 BT.  A cedar 30 ins. in diam., bears N 84, 3/4° W. 200 lks. dist., marked: 09 <math>\frac{1}{4}</math> S 30 BT.</p>
48.60	<p>Drain, course SE. Over rolling land covered with loose malpais rocks and boulders exceptionally difficult to walk over.</p>
54.00	<p>Desc. steep slope into canyon over loose rocks.</p>
61.80	<p>Wash, 15 lks. wide, course SE. Asc. steep slope over loose rocks.</p>
65.00	<p>Top of spur, bears N. Desc. steep slope over loose rocks.</p>
68.45	<p>Wash, 15 lks. wide, course S. Asc. steep slope over loose rocks.</p>
76.75	<p>Over mesa covered with loose rocks and boulders exceptionally difficult to walk over.</p>
80.00	<p>The cor. of secs. 29, 30, 31 and 32.  Land, mountainous and level.  Soil, gravelly and rocky; 3rd and 4th rate.  Timber, a few cedars. No underbrush.  Mountainous land covered with loose rocks or land covered with loose rocks and boulders exceptionally difficult to survey, 81.40 chs.</p>
22.00	<p>N 0° 12' E. bet. secs. 29 and 30.  Over rolling land thru dense underbrush over loose rock  Wash, 15 lks. wide, course SE. Asc. over loose rocks.</p>
40.00	<p>Set a malpais stone, 16X10X5 ins., 11 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked 09 <math>\frac{1}{4}</math> on W. face; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor.  Pits impracticable.</p>
57.00	<p>Same wash, 10 lks. wide, course SW. Over loose rocks e exceptionally difficult to walk over.</p>
76.20	<p>Same wash, 15 lks. wide, course SE. Along steep slope over loose rocks.</p>
80.00	<p>Set a malpais stone, 23X12X8 ins., 17 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 E. edge; from which  A cedar 10 ins. in diam., bears N 27° 25' W. 293 lks. dist., marked: 09 T 18 N R 1 W S 19 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 and rolling.  Soil, rocky; 4th rate.</p>

## Subdivisions of Tp. 18 N., Rg. 1 W.

chains.

Timber, cedar.  
Underbrush, cedar and buck brush.  
Land mountainous, covered with dense underbrush and loose rocks exceptionally difficult to survey, 80.00 chs.  
June 4; At this cor. I set off  $22^{\circ} 26'$  N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 56'$  N.

S  $89^{\circ} 58'$  W. on random line bet. secs. 19 and 30.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.98 Intersect the W. bdy. of Tp. 3 lks. N. of the cor. of sec. 24, 25, 19 and 30.  
Thence I run  
N  $89^{\circ} 57'$  E. on true line bet. secs. 19 and 30.  
Over level land.  
39.99 Set a limestone, 23X12X8 ins., 17 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.  
54.30 Road, bears NE. and SW. Over rolling land over loose malpais rocks exceptionally difficult to walk over.  
77.00 Drain, course SE. Asc. over loose rocks and boulders.  
79.98 The cor. of secs. 19, 20, 29 and 30.  
Land, level and rolling.  
Soil, gravelly and rocky; 2nd and 4th rate.  
No timber or underbrush.  
Land covered with loose rocks and boulders very difficult to walk over, exceptionally difficult to survey, 25.68 chs.

N  $0^{\circ} 12'$  E. bet. secs. 19 and 20.  
Over nearly level land.  
12.50 Road, bears NE and SW.  
40.00 Set a malpais stone, 16X8X6 ins., 11 ins. in the ground, for  $\frac{1}{4}$  sec., marked 09  $\frac{1}{4}$  on W. face; dig pits, 18X18X12 ins., N. and S., of stone, 3 ft. dist., and raise a mound of earth, 3, 1/2 ft. base, 1, 1/2 ft. high, W. of cor.  
80.00 Set a malpais stone, 23X12X12 ins., 17 ins. in the ground, for cor. of secs. 17, 18, 19 and 20; marked 09 on NE., with 3 notches on S., and 5 notches on E. edge; from which,  
A cedar, 14 ins. in diam., bears S  $75^{\circ}$  E. 88 lks. dist., marked; 09 T 18 N R 1 W S 20 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, level.  
Soil, gravelly; 2nd rate.  
No timber or underbrush.

S  $89^{\circ} 57'$  W. on random line bet. secs. 18 and 19.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.98 Intersect the W. Bdy. of Tp. 3 lks. S. of cor. of secs. 13, 18, 19 and 24.  
Thence I run  
N  $89^{\circ} 58'$  E. on true line bet. secs. 18 and 19.  
Over rolling land thru dense timber.  
2.00 Leave timber, bears N. and S.  
30.90 Road, bears NE and SW.  
31.72 Telegraph line bears NE. and SW.  
32.37 Santa Fe, Phoenix and Prescott Ry. track, bears N  $20^{\circ} 40'$  E. and S  $20^{\circ} 40'$  W.  
32.96 Telegraph line, bears NE. and SW.  
39.99 Set a malpais stone, 18X6X6 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.  
53.00 Enter scattering timber.

## Subdivision of Tp 18 N., Rg. 1 W.

chains.

79.98

The cor. of secs. 17, 18, 19 and 20.  
Land rolling.  
Soil, gravelly; 3rd rate.  
Timber, cedar. No underbrush.

June 4, 1909.

June 5th; At 6h.00m., a.m., l.m.t., I set off  $34^{\circ}57'N$ .  
on the lat. arc;  $22^{\circ}33'N$ . on the decl. arc; and determine  
a meridian with the solar at the cor. of secs. 17, 18,  
19 and 20.

Thence I run

N  $0^{\circ}12'$  E. bet. secs. 17 and 18.

40.00

Ascend over gradual S. slope thru scattering timber.  
Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for  
 $\frac{1}{4}$  sec. cor., marked 09  $\frac{1}{4}$  on W. face; dig puts, 18X18X12 ins.  
N. and S. of stone, 3 ft. dist., and raise a mound of  
earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Thru dense timber.

77.00

Leave dense timber, bears E. and W.

80.00

Set a malpais stone, 16X8X7 ins., 11 ins. 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. from which,  
A cedar 20 ins. in diam., bears N  $46\frac{3}{4}^{\circ}$  E. 387 lks.  
dist., marked: 09 T 18 N R 1 W S 8 BT  
A cedar 28 ins. in diam., bears S  $53\frac{1}{4}^{\circ}$  E. 128 lks.  
dist., marked: 09 T 18 N R 1 W S 17 BT.  
A cedar 30 ins. in diam., bears S  $65\frac{3}{4}^{\circ}$  W. 483 lks.  
dist., marked: 09 T 18 N R 1 W S 18 BT.  
A cedar 28 ins. in diam., bears N  $30^{\circ}$  W. 776 lks.  
dist., marked: 09 T 18 N R 1 W S 7 BT.

Land, level.

Soil, sandy loam; 2nd rate.

Timber cedar. No underbrush,

Land covered with dense timber, 37.00 chs.

S  $89^{\circ}58'W$ . on random line bet. secs. 7 and 18.

40.00

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

79.96

Intersect the W. Bdy. of Tp. 12 lks. S. of cor. of secs.  
7, 12, 13 and 18.

Thence I run

S  $89^{\circ}57'$  E. on true line bet. secs. 7 and 18.

Over slightly rolling land thru dense timber and  
underbrush.

1.50

Road, bears NE and SW.

39.98

Set a limestone, 23X12X5 ins., 17 ins. in the ground, for  
 $\frac{1}{4}$  sec. cor., marked 09  $\frac{1}{4}$  on N. face: from which,

A cedar 10 ins. in diam., bears S  $86\frac{1}{4}^{\circ}$  W. 235 lks.  
dist., marked: 09  $\frac{1}{4}$  S 18 BT.

A cedar 8 ins. in diam., bears N  $54^{\circ}30'$  W. 323 lks.  
dist., marked: 09  $\frac{1}{4}$  S 7 BT.

60.00

Leave dense timber and underbrush.

62.10

Road, bears NE and SW.

62.89

Telegraph line, bears NE and SW.

63.41

Railroad bears NE and SW.

63.86

Telegraph line, bears NE and SW.

79.96

The cor. of secs. 7, 8, 17 and 18.

Land, slightly rolling.

Soil, sandy loam; 3rd rate.

Timber, cedar.

Underbrush, cedar.

Mountainous land or land covered with dense timber and  
underbrush, 60.00 chs.

N  $0^{\circ}12'$  E. bet. secs. 7 and 8.

31.05

Over rolling land thru scattering timber.

Telegraph line, bears NE and SW.

## Subdivision of Tp. 18 N., Rg. 1 W.

chains.	
31.99	Railroad, bears N 32°30'E. and S 32°30'W.
33.05	Telegraph line bears NE. and SW.
40.00	Set a malpais stone, 14X8X6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which :- A cedar 10 ins. in diam., bears S 60°50'E. 89 lks. dist., marked; 09 $\frac{1}{4}$ S 8 BT. A cedar 16 ins. in diam., bears N 10°40'W. 134 lks. dist., marked; 09 $\frac{1}{4}$ S 7 BT.
41.00	Road, bears NE and SW.
64.10	Wash, 15 lks. wide, course E.
79.00	Road, bears E. and W.
80.00	Set a limestone, 23X8X8 ins., 17 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:- A cedar 5 ins. in diam., bears N 64°E. 89 lks. dist., marked; 09 T 18 N R 1 W S 5 BT. A cedar 9 ins., in diam., bears S 56 $\frac{1}{2}$ ° E. 118 lks. dist., marked; 09 T 18 N R 1 W S 8 BT. A cedar 7 ins. in diam., bears S 86, 1/2°W. 161 lks. dist., marked; 09 T 18 N R 1 W S 7 BT. A cedar 9 ins. in diam., bears N 65° W. 171 lks. dist., marked; 09 T 18 N R 1 W S 6 BT.
	Land, slightly rolling. Soil, sandy; 2nd rate. Timber, cedar. No underbrush. June 5; At this cor. I set off 22°33'N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 34°59'N.
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40.00	N 89°57'W. on random line bet. secs. 6 and 7. Set temp. $\frac{1}{4}$ sec. cor.
79.86	Intersect the W. bdy. of Tp. 7 lks. S. of cor. of secs. 1, 6, 7 and 12. Thence I run S 89°54'E. on true line bet. secs. 6 and 7. Over rolling land thru dense timber and underbrush over loose rocks.
39.93	Set a limestone, 14X11X6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N. face; from which a A cedar 10 ins. in diam., bears N 28° W. 118 lks. dist., marked; 09 $\frac{1}{4}$ S 6 BT.
53.81	No other tree available; Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.
68.90	Road to Cedar Glade, bears NE and SW.
79.86	Road, bears ESE and WNW. The cor. of secs. 5, 6, 7 and 8. Land, rolling. Soil, rocky; 3th rate. Timber, cedar. Underbrush, cedar. Land, covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey, 79.86 chs
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40.00	N 0°12'E. on random line bet. secs 5 and 6. Set temp. $\frac{1}{4}$ sec. cor.
80.92	Intersect the N. Bdy of Tp. 5 lks. W. of cor. of secs. 5, 6, 31 and 32; Thence I run S 0°14'W. on true line bet. secs. 5 and 6. Asc. over loose rocks thru dense timber and underbrush. Top of spur, bears W. Desc. steep slope over loose rocks.
16.00	Wash, 10 lks. wide, course E. Asc. steep slope over loose rocks.
22.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
27.50	Road, bears E. and W.
27.60	Set a limestone, 23X10X7 ins., 17 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which:-
40.92	

Subdivision of Tp 18 N, Rg 1 W

chains.

A cedar 20ins.in diam., bears N 72,3/4° W. 320 lks. dist., marked: 09 1/4 S 6 BT.

A cedar 10 ins.in diam., bears East 178 lks. dist., marked: 09 1/4 S 5 BT.

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

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

69.00 Drain, course E. Asc. steep slope over loose rocks.

69.65 Old barn and corral bears E. 10.50 chs.

80.92 The cor. of secs. 5, 6, 7 and 8.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar.

Underbrush, cedar and buch brush.

Mountainous land covered with dense timber and underbrush, and loose rocks, exceptionally difficult to survey 80.92 chs.

June 5, 1909.

June 6; At 6h.00m., a.m., l.m.t., I set off 34° 54, 1/2' N. on the lat. arc; 22° 39, 1/2' N on the decl. arc; and determine a meridian with the solar at the cor. of sees 32 and 33 on the S. bdy. of Tp.

Thence I run

N 0° 12'E. bet. secs. 32 and 33.

Ascending steep slope over loose rocks thru scattering timber and underbrush.

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

20:00 Wash, 20 lks.wide, course SE. Along steep W. slope over loose rocks, thru dense timber and underbrush.

37.00 Wash, 15 lks.wide, course NW. Asc. steep slope over loose rocks.

40.00 Set a limestone, 20x12x8ins., 15 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on W. face; from which;

A cedar 5ins. in diam., bears S 28, 1/2° W. 55 lks., dist., marked: 09 1/4 S 32 BT.

A cedar 12ins. in diam., bears N 31, 1/2° E. 15 lks., dist., marked: 09 1/4 S 33 BT.

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

43.00 Wash, 15 lks.wide, course W. Asc. steep slope over loose rocks.

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

57.40 Wash, 75 lks.wide, course W. Along east . slope over loose rocks.

80.00 Set a limestone, 20x12x14ins., 15ins. in the ground, for cor. of secs. 28, 29, 32 and 33. marked 09 on NE., with 1 notch on S., and 4 notches on E. edges. from which:-

A cedar 14ins. in diam., bears S 42° 55' W. 119 lks. dist., marked: 09 T 18 N R 1 W S 32 BT.

A cedar 5ins. in diam., bears N 50° 10' W. 161 lks. dist., marked: 09 T 18 N R 1 W S 29 BT.

No other tree available. Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, stony and rocky; 4th rate.

Timber, cedar.

Underbrush, cedar and scrub oak.

Mountainous land covered with loose rocks and dense timber and underbrush exceptionally difficult to survey, 80.00 chs.

## Subdivision of Tp. 18 N., Rg. 1 W.

chains.	
	West on random line bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect the N. and S. line 5 lks. N. of the cor. of secs. 29, 30, 31 and 32.
	Thence I run
	N $89^{\circ}58'E.$ on true line bet. secs. 29 and 32.
	Ascending steep slope over loose rocks thru scattering timber and underbrush.
3.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
8.30	Wash, 20 lks. wide, course S. Asc. steep slope over loose rocks.
14.50	Top of ridge, bears N. Desc. steep slope over loose rocks
17.00	Wash, 40 lks. wide, course SE along steep slope over loose rocks.
30.00	Drain, course SE.
40.02	Set a limestone, 20X12X4 ins., 15 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 $26^{\circ}30'W.$ 96 lks. dist., marked: 09 $\frac{1}{4}$ S 32 BT. A cedar 8 ins. in diam., bears N $10^{\circ}45'W.$ 91 lks., dist., marked: 09 $\frac{1}{4}$ S 29 BT.
42.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
55.40	Wash, 40 lks. wide, course S. Asc. steep slope over loose rocks.
61.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
64.85	Wash, 20 lks. wide, course S. Asc. steep slope over loose rocks.
68.00	Over rolling land covered with loose rocks and dense timber and underbrush.
80.04	The cor. of secs. 28, 29, 32 and 33. Land, mountainous and rolling. Soil, stony and rocky: 4th rate. Timber, cedar. Underbrush, cedar, scrub oak and buck brush.. Mountainous land covered with loose rocks or land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.04 chs.
	N $0^{\circ}12'E.$ bet. secs. 28 and 29. Descending steep slope over loose rocks, thru dense timber and underbrush.
9.45	Wash, 20 lks., wide, course SE. Asc. over loose rocks.
22.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
24.50	Road, bears NW. and SE.
30.00	Draw, bears E. and W. Asc. steep slope over loose rocks.
39.00	Along steep E. slope over loose rocks.
40.00	Set a limestone, 20X8X8 ins., 15 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 S $32^{\circ}50'E.$ 129 lks., dist., marked: 09 $\frac{1}{4}$ S 28 BT. A cedar 6 ins. in diam. bears N $62^{\circ}30'W.$ 52 lks. dist., marked: 09 $\frac{1}{4}$ S 29 BT.
48.00	Desc. steep slope over loose rocks.
55.45	Wash, 25 lks. wide, course E. Along wash.
60.00	Leave wash, Asc. steep slope over loose rocks.
67.00	Top of spur, bears E. and W. Desc. steep slope over loose rocks.
71.15	Wash, 20 lks. wide, course SE. Asc. steep slope over loose rocks.
80.00	Set a limestone, 20X10X5 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; from which:- A cedar 10 ins., in diam., bears N $44^{\circ}25'E.$ 71 lks. dist., marked: 09 T 18 N R 1 W S 21 BT.

## Subdivision of Tp. 18 N., Rg. 1 W.

chains.

A cedar 10 ins. in diam., bears S 20° E. 32 lks.,  
dist., marked; 09 T 18 N R 1 W S 28 FT.  
A cedar 5 ins. in diam., bears N 41° 35' W. 106 lks.,  
dist., marked; 09 T 18 N R 1 W S 20 FT.  
A cedar 7 ins. in diam., bears S 60° 30' W. 65 lks.,  
dist., marked 09 T 18 N R 1 W S 29 FT.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar.

Underbrush, cedar, scrub oak.

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

June 6; At this cor. I set off 22° 39, 1/2' N. on the decl  
arc; and observe the sun on the meridian at noon; the  
resulting lat. is 34° 56' N.

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S 89° 58' W. on random line bet. secs. 20 and 29.

40.00 Set temp. 1/4 sec. cor.

80.02 Intersect the N. and S. line 5 lks. S. of the cor. of  
secs. 19, 20, 29 and 30.

Thence I run.

East on true line bet. secs. 20 and 29.

Ascending over loose rocks thru dense timber and under-  
brush.40.61 Set a limestone, 18X14X8 ins., 12 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 S 52° 30' E. 112 lks.,  
dist., marked; 09 1/4 S 29 FT.

A cedar 9 ins. in diam., bears N 45° 30' E. 239 lks.,  
dist., marked; 09 1/4 S 20 FT.

68.00 Top of ridge, bears N. and S. Desc. steep slope over loose  
rocks.

72.30 Drain, course S. Asc. steep slope over loose rocks.

80.02 The cor. of secs. 20, 21, 28 and 29.

Land, mountainous.

Soil, rocky; 3rd rate.

Timber, cedar.

Underbrush, cedar.

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

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N 0° 12' E. bet. secs. 20 and 21.

Ascending thru dense timber and underbrush over loose  
rocks.

23.30 Road, bears NW. and SE.

40.00 Set a limestone, 18X8X6 ins., 12 ins. in the ground, for  
1/4 sec. cor., marked 09 1/4 on W. face; from which,

A cedar 9 ins. in diam., bears S 78° W. 143 lks.,  
dist., marked; 09 1/4 S 20 FT.

A cedar 30 ins., in diam., bears S 73° 30' E. 237 lks.,  
dist., marked; 09 1/4 S 21 FT.

58.00 Drain, course NE.

80.00 Set a limestone, 18X12X6 ins., 12 ins. in the ground, for  
cor. of secs. 16, 17, 20 and 21. marked 09 on NE., with 3  
notches on the S. and 4 notches on the E. edges.

From which:

A cedar 14 in. in diam., bears N 5° E. 487 lks.,  
dist., marked; 09 T 18 N R 1 W S 16 FT.

A cedar 8 ins., in diam., bears S 46° 45' E. 194 lks.,  
dist., marked; 09 T 18 N R 1 W S 21 FT.

A cedar 14 ins., in diam., bears S 50° 45' W. 349 lks.,  
dist., marked; 09 T 18 N R 1 W S 20 FT.

A cedar 16 ins. in diam., bears N 53° 30' W. 260 lks.,  
dist., marked; 09 T 18 N R 1 W S 17 FT.

Subdivision of Tp.18 N. Rg.1 W.

chains.

Land, mountainous.  
Soil, rocky; 3rd rate.  
Timber, cedar.  
Underbrush, cedar and scruboak,  
Mountainous land covered with dense timber and underbrush, and loose rocks, exceptionally difficult to survey  
80.00 chs.

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West on random line bet. secs. 17 and 20.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.,  
80.12 Intersect the N. and S. line, 3 lks. S. of cor. of secs. 17, 18, 19 and 20.  
Thence I run  
S89°59'E. on true line bet. secs. 17 and 20.  
Ascending W. slope thru scattering timber and underbrush over loose rocks.  
13.00 Top of ridge, bears N. and S. Desc. over loose rocks.  
27.00 Drain, course N. Asc. over loose rocks.  
39.50 Top of ridge, bears N. and S. Desc. over loose rocks.  
40.06 Set a malpais stone, 15x10x5 ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked 09  $\frac{1}{4}$  on N. face; from which:-  
A cedar 18 ins. in diam., bears S 19°45'E. 203 lks.,  
dist., marked 09  $\frac{1}{4}$  S 20 FT.  
A cedar 14 ins. in diam., bears N 11°30' W. 226 lks.,  
dist., marked 09  $\frac{1}{4}$  S 17 FT.

60.00 Drain, course N. Asc. over loose rocks.  
75.00 Top of ridge, bears N. and S. Desc. over loose rocks.  
80.12 The cor. of secs. 16, 17, 20 and 21.  
Land, mountainous.  
Soil, rocky; 3rd rate.  
Timber, cedar.  
underbrush, cedar.  
Mountainous land covered with scattering timber and underbrush and loose rocks exceptionally difficult to survey, 80.12 chs.

June 6th, 1909.

June 7th: At 6h.00m., a.m., l.m.t., I set off 34°57'N. on the lat. arc: 22°46'N. on the decl. arc and determine a meridian with the solat at the cor. of secs. 16, 17, 20 and 21.  
Thence I run  
N 0°12'E. bet. secs. 16 and 17.  
Ascending thru dense timber and underbrush over loose rocks.  
10.00 Top of ridge, bears E. and W. Desc. over loose rocks.  
30.00 Wash, 20 lks. wide, course SE. Asc. over loose rocks.  
39.62 Road, bears SE. and NW.  
40.00 Set a malpais stone, 16x11x8 ins., 11 ins. in the ground, for  $\frac{1}{4}$  sec. cor marked 09  $\frac{1}{4}$  on W. face; from which,  
A cedar 16 ins. in diam., bears S 47°15'W. 316 lks.,  
dist., marked: 09  $\frac{1}{4}$  S 17 FT.  
No other tree available. Dig pits, 18x18x12 ins., N. and S of stone, 3ft. dist., and raise a mound of earth, 3, 1/2 ft base, 1, 1/2 ft. high, W. of cor.  
50.00 Top of ridge, bears E. and W. Desc. over loose rocks.  
65.00 Drain, bears E. Asc. over loose rocks.  
80.00 Set a red limestone, 18x6x8 ins., 12 ins. in the ground, for cor. of secs. 8, 9, 16 and 17. marked 09 on NE., with 4 notches on S. and E. edges; from which:-  
A cedar 7 ins. in diam., bears N 72°10'E. 42 lks.,  
dist., marked: 09 T 18 N R 1 W S 9 FT.  
A cedar 11 ins. in diam., bears S 27°30'E. 138 lks.,  
dist., marked: 09 T 18 N R 1 W S 16 FT.  
A cedar 9 ins. in diam., bears S. 43°14'W. 114 lks.,  
dist., marked: 09 T 18 N R 1 W S 17 FT.  
A cedar 7 ins. in diam., bears N 76°45'W. 48 lks.,  
dist., marked: 09 T 18 N R 1 W S 8 FT.



Subdivision of Td. 18 N. Rg. 1 W.

chains.

Land, mountainous.  
Soil, rocky: 3rd rate.  
Timber, cedar.  
Underbrush, cedar and buck brush.  
Mountainous land covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey, 80.00 chs.

40.00 N 89°59'W. on random line bet. secs. 17 and 8.  
80.06 Set temp. 1/4 sec. cor.,  
The cor. of secs. 7, 8, 17 and 18.

Thence I run  
S 89°59'E. on true line bet. secs. 8 and 17.  
Ascending over loose rocks thru dense timber and underbrush.

3.00 Top of ridge, bears NE and SW. Desc. over loose rocks.  
26.10 Wash, 20 lks. wide, course SE. Asc. over loose rocks.  
40.03 Set a sandstone, 18X6X7 ins., 12 ins. in the ground, for

1/4 sec. cor., marked 09 1/4 on N. face; from which:-  
A cedar, 14 ins. in diam., bears N 37°30'E. 232 lks.,  
dist., marked: 09 1/4 S 8 FT.  
A cedar 20 ins. in diam., bears S 5° 30'W. 191 lks.,  
dist., marked: 09 1/4 S 17 FT.

45.00 Top of ridge, bears N. and S. Desc. over loose rocks.  
58.00 Drain, course S. Asc. over loose rocks.  
59.50 Road, course NW and SE.  
61.26 Road, course N. and S.  
80.06 The cor. of secs. 8, 9, 16 and 17.

Land mountainous.  
Soil, rocky: 3rd rate.  
Timber, cedar.  
Underbrush, cedar.  
Mountainous land covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey, 80.06 chs.

31.25 N 0°12'E, bet. secs. 8 and 9.  
37.00 Descending thru dense timber and underbrush over  
38.05 loose rocks.  
40.00 Wash, 10 lks. wide, course SE. Asc. over loose rocks.

Top of ridge, bears NW and SE. Desc. over loose rocks.  
Old road, bears NW and SE.

Set a limestone, 18X7X6 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 59°30'E. 68 lks.,  
dist., marked: 09 1/4 S 9 FT.  
A cedar 22 ins. in diam., bears S 76°45' W. 453 lks.,  
dist., marked: 09 1/4 S 8 FT.

60.84 Wash, 25 lks. wide, course SE. Asc. over loose rocks.  
66.05 Wood road, bears E. and W.  
69.00 Wood road, bears E. and W.  
70.00 Across old timber cutting; covered with dead limbs and  
brush and a growth of young timber.

80.00 Set a limestone, 18X8X6 ins., 12 ins. in the ground, for  
cor. of secs. 4, 5, 8 and 9. marked 09 on NE., with 5 notches  
on S., and 4 notches on the E. edge; from which:-

A cedar 4 ins. in diam., bears N 51°45'E. 73 lks.,  
dist., marked: 09 T 18 N R 1 W S 4 FT.  
A cedar 8 ins. in diam., bears S 55°15'E. 96 lks.,  
dist., marked: 09 T 18 N R 1 W S 9 FT.  
A cedar 8 ins. in diam., bears S 50° W. 69 lks.,  
dist., marked: 09 T 18 N R 1 W S 8 FT.  
A cedar 6 ins. in diam., bears N 51°45'W. 28 lks.,  
dist., marked: 09 T 18 N R 1 W S 5 FT.

Land, mountainous.  
Soil, rocky: 3rd rate.  
Timber, cedar.  
Underbrush, cedar.

## Subdivision of Tp.18 N.,Rg. 1 W.

chains.	
	Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.00 chs. June 7; At this cor. I set off $22^{\circ}45'1/2''$ N. on the decl arc and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ}59'N$ .
	N $89^{\circ}59'W$ . on random line bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect the N. and S. line, 12 lks. N. of the cor. of Secs. 5, 6, 7, and 8. Thence I run N $89^{\circ}56'E$ . on true line bet. secs. 5 and 8. Descending over loose rocks thru dense timber and underbrush.
2.05	Road, bears NE and SW.
7.25	Old road, bears NE and SW.
10.20	Wood road, bears N' and S.
12.70	Wood road, bears N. and S.
14.20	Wash, 15 lks. wide, course N.
14.95	Small Ry. levee bears N. and S.
15.46	Telegraph line, bears N. and S.
15.95	Railroad, bears N. and S.
16.53	Telegraph line, bears N. and S. Asc. over loose rocks.
20.85	Old house bears N $32^{\circ}55'W$ . Lime warehouse, bears N $20^{\circ}55'W$ .
21.00	Top of ridge, bears NE. and SW. Desc. over loose rocks.
24.84	Road, bears N. and S.
25.00	Drain, bears N. Asc. over loose rocks.
33.50	Old house, bears N $60^{\circ}05'W$ . Lime warehouse, bears N $56^{\circ}15'W$ .
35.00	Top of ridge, bears NW and SE. Desc. over loose rocks.
40.01	Set a limestone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N. face; from which:- A cedar 10 ins. in diam., bears S $16^{\circ}15'E$ . 279 lks., dist., marked 09 $\frac{1}{4}$ S 8 RT. A cedar 16 ins. in diam., bears N $54^{\circ}30'W$ . 81 lks., dist., marked: 09 $\frac{1}{4}$ S 5 RT.
40.68	Road, bears NW. and SE.
45.03	Road, bears NW. and SE.
47.00	Drain, course S. Asc. over loose rocks.
80.02	The cor. of secs. 4, 5, 8 and 9. Land, mountainous. Soil, rocky: 3rd rate. Timber, cedar. Underbrush, cedar. Mountainous land covered with loose rocks, and dense timber and underbrush, exceptionally difficult to survey, 80.02 chs.
	N $0^{\circ}12'E$ . on random line bet. secs. 4 and 5.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.90	Intersect the N. Rdy. of the Tp. 5 lks. W. of the cor. of secs. 4, 5, 32 and 33. S $0^{\circ}14'W$ . on true line bet. secs. 4 and 5. Desc. over loose malpais rocks exceptionally difficult to walk over.
28.40	Top of wall of Hell's Canyon, bears NW. and SE. Desc. steep precipitous slope into canyon.
33.90	Hell's Canyon wash, 100 lks. wide, course SE. Asc. steep slope over loose rocks and boulders.
38.50	Top of wall of Hells canyon, bears SE. and W.
40.90	Set a malpais stone, 20x15x7 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which:- A cedar 11 ins. in diam., bears N $58^{\circ}E$ . 37 lks., dist., marked: 09 $\frac{1}{4}$ S 4 RT.

## Subdivision of Tp. 18 N., Rg. 1 W.

chains.	
	A cedar 6ins. in diam., bears N 74° W. 24 lks., dist., marked; 09 $\frac{1}{4}$ S 5 BT.
	Pumpaney Lime kiln bears N 64° 45' W.
	Waerhouse, bears N 61° W.
	House, bears N 59° 45' W.
	House bears N 58° 45' W.
	House bears N 57° 25' W.
	S. abutement of R.R. bridge, bears N 35° 10' W.
	Ascend over loose rocks thru dense timber and underbrush
60.90	Top of ridge, bears E. and W. Desc. over loose rocks.
64.90	Wash, 15 lks. wide, course NE. Asc. over loose rocks
80.90	The cor. of secs. 4, 5, 8 and 9. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar and scrub oak. Mountainous land covered with loose rocks and dense timber and underbrush exceptionally difficult to survey, 80.90 chs.
	June 7th, 1909.
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	June 8: At 6h. 00m. a.m., l.m.t., I set off 34° 54' 1/2' N. on the lat. arc; 22° 51' 1/2' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 33 and 34 on the S. Bay of the Tp.
	Thence I run
	N 0° 13' E. bet. secs. 33 and 34.
3.80	Descend steep N. slope over loose rocks, Wash, 15 lks. wide, course W. Asc. steep slope over loose rocks.
13.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
21.54	Wire fence bears NW and SE.
28.45	Wash, 30 lks. wide, course SE. Asc. steep slope over loose rocks.
35.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
40.00	Set a limestone, 20x10x8ins., 15ins. in the ground, for $\frac{1}{2}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which:- A cedar 14ins. in diam., bears S 5° 45' E. 22 lks., dist., marked; 09 $\frac{1}{4}$ S 34 BT. A cedar 14ins. in diam., bears S 26° 50' W. 53 lks., dist., marked 09 $\frac{1}{4}$ S 33 BT.
43.15	Wash, 20 lks. wide, course E. Asc. steep slope over loose rocks.
57.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
63.45	Wash, 10 lks. wide, course E. Asc. steep slope over loose rocks.
66.30	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
71.60	Wash, 10 lks. wide, course E. Asc. steep slope over loose rocks.
74.50	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
76.70	Wash, 25 lks. wide, course E. Asc. steep slope over loose rocks.
80.00	Set a limestone, 16x14x6ins., 11ins. in the ground, for cor. of secs. 27, 28, 33 and 34. marked 09 on NE. with 1 notch on S., and 3 notches on E. edge. from which, A cedar 5ins., diam., bears N 59° 15' E. 53 lks., dist., marked; 09 T 18 N R 1 W S 27 BT. A cedar 6ins. in diam., bears S 58° 25' W. 90 lks., dist., marked 09 T 18 N R 1 W S 33 BT. A cedar 8ins. in diam., bears N 5° 10' W. 164 lks., dist., marked; 09 T 18 N R 1 W S 28 BT. No other tree available. Raise a mound of stone, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

## Subdivision of Tp. 18 N., Rg. 1 W.

chains

- Land mountainous.  
Soil, rocky; 4th rate.  
Timber, cedar. No underbrush.  
Mountainous land covered with loose rocks exceptionally difficult to survey, 30.00 chs.
- 
- West on random line bet. secs. 28 and 33.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.02 Intersect the N. and S. line 3 lks. N. of the cor. of sec. 28, 29, 32 and 33.  
Thence I run  
N  $89^{\circ}59'$  E. on true line bet. secs. 28 and 33.  
Descending steep slope over loose rocks.  
0.40 Wash, 30 lks. wide, course S. Asc. steep slope over loose rocks.  
12.50 Top of ridge, bears NE. and SW. Desc. steep slope over loose rocks.  
22.65 Wash, 30 lks. wide, course SW. Asc. steep slope over loose rocks thru dense timber and underbrush.  
40.01 Set a limestone, 18X10X6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked 09  $\frac{1}{4}$  on N. face; from which:-  
A cedar 7 ins. in diam., bears S  $69^{\circ}$  W. 135 lks.,  
dist., marked; 09  $\frac{1}{4}$  S 33 RT.  
A cedar 5 ins. in diam., bears N  $14^{\circ}$  W. 138 lks.,  
dist., marked; 09  $\frac{1}{4}$  S 28 RT.  
40.85 Wash, 10 lks. wide, course NW. Asc. steep slope over loose rocks.  
48.65 Road, bears N. and S.  
49.00 Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.  
60.35 Wash, 10 lks. wide, course NE. Asc. steep slope over loose rocks.  
69.00 Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.  
80.02 The cor. of secs. 27, 28, 33 and 34.  
Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, cedar.  
Underbrush, cedar and buck brush.  
Mountainous land covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey, 30.02 chs.
- 
- N  $0^{\circ}13'$  E. bet. secs. 27 and 28.  
Descending steep slope over loose rocks thru dense timber and underbrush.  
3.00 Wash, 50 lks. wide, course ESE. Asc. steep slope over loose rocks.  
10.00 Ascending along steep W. slope over loose rocks.  
40.00 Set a limestone, 20X15X10 ins., 15 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  $57^{\circ}45'$  W. 73 lks.,  
dist., marked; 09  $\frac{1}{4}$  S 28 RT.  
A cedar 7 ins. in diam., bears N  $69^{\circ}45'$  E. 250 lks.,  
dist., marked; 09  $\frac{1}{4}$  S 27 RT.  
51.00 Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.  
63.60 Drain, course E. Over loose rocks.  
66.60 Wash, 10 lks. wide, course E. Asc. steep slope over loose rocks.  
72.00 Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.  
80.00 Set a limestone, 18X8X6 ins., 12 ins. in the ground, for cor. of secs. 21, 22, 27 and 28; marked 09 on NE. with 2 notches on S., and 3 notches on E. edge; from which:-  
A cedar 8 ins. in diam., bears N  $28^{\circ}15'$  E. 142 lks.,  
dist., marked; 09 T 18 N R 1 W S 22 RT.  
NO other tree available. Raise a mound of stones, 2 ft. base, 1,  $\frac{1}{2}$  ft. high, W. of cor. Pots impracticable.

## Subdivision of Tp.18 N., Rg 1 W.

chains.

Land, mountainous.  
Soil, rocky; 4th rate.  
timber, cedar.  
Underbrush, scrub oak, wild currant, buck brush and cedar.  
Mountainous land covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey 80.00 chs.  
June 8; At this cor. I set off  $22^{\circ}51'N.$  on the decl. arc and observe the sun on the meridian at noon; the resulting lat.  $34^{\circ}56'N.$

S  $89^{\circ}59'$  W. on random line bet. secs. 21 and 28.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.02 Intersect the N. and S. line 5 lks. S. of the cor. of secs. 20, 21, 28 and 29.  
Thence I run  
S  $89^{\circ}59'E.$  on true line bet. secs. 21 and 28.  
Descending steep slope over loose rocks thru dense underbrush.  
9.90 Wash, 15 l s. wide, course S. Asc. steep slope over loose rocks.  
20.00 Top of ridge, bears N. and S. Desc. steep slope over loose rocks.  
29.60 Wash, 10 lks. wide, course S. 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 limestone, 18X8X8 ins., 12 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 S  $60^{\circ}E.$  115 lks., dist., marked; 09  $\frac{1}{4}$  S 28 BT.  
A cedar 7 ins. in diam., bears N  $30^{\circ}W.$  128 lks., dist., marked 09  $\frac{1}{4}$  S 21 BT.  
40.70 Drain, course SW. Asc. steep slope over loose rocks.  
56.48 Road, bears NW and SE.  
62.00 Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.  
71.65 Wash, 15 lks. wide, course NE. Asc. steep slope over loose rocks.  
77.50 Top of ridge, bears NE and SW. Along steep SE. slope over loose rocks.  
80.02 The cor. of secs. 21, 22, 27 and 28.  
Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, cedar.  
Underbrush, buck brush and scrub oak.  
Mountainous land covered with dense underbrush and loose rocks exceptionally difficult to survey, 80.02 chs.

N  $0^{\circ}13'E.$  bet. secs. 21 and 22.  
Ascending steep slope over loose rocks thru dense underbrush.  
2.00 Top of ridge, bears NE. and SW. Desc. steep slope over loose rocks.  
5.75 Wash, 20 lks. wide, course E. Asc. steep slope over loose rocks.  
13.00 Top of ridge, bears NW and SE. Desc. steep slope over loose rocks.  
23.58 Wash, 15 lks. wide, course, NE.  
24.85 Wash, 25 lks. wide, course NE. Asc. steep slope over loose rocks.  
37.00 Top of ridge, bears SE and NW. Desc. steep slope over loose rocks.  
40.00 Set a limestone, 20X9X8 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked 09  $\frac{1}{4}$  on W. face; from which:-  
A cedar 14 ins. in diam., bears S  $47^{\circ}15'W.$  212 lks., dist., marked; 09  $\frac{1}{4}$  S 21 BT.  
A cedar 6 ins. in diam., bears N  $78^{\circ}30'E.$  121 lks., dist., marked 09  $\frac{1}{4}$  S 22 BT.  
Thence I run

## Subdivision of Tp.18 N.,Rg. 1 W.

chains	Thru dense timber and underbrush.
45.20	Wash, 15 lks. wide, course SE. Asc. steep slope over loose rocks.
50.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
59.70	Wash, 10 lks. wide, course SE. Asc. steep slope over loose rocks.
63.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
69.30	Wash, 15 lks. wide, course E. Asc. steep slope over loose rocks.
73.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
80.00	Set a limestone, 16X10X6 ins., 11 ins. in the ground, for cor. of secs. 15, 16, 21 and 22; marked 09 on NE., with 3 notches on S. and E. edges. from which:- A cedar 5 ins. in diam., bears N 83 $\frac{1}{2}$ ° E. 189 lks., dist., marked: 09 T 18 N R 1 W S 15 FT. A cedar 6 ins. in diam., bears S 61° 10' E. 271 lks., dist., marked: 09 T 18 N R 1 W S 22 FT. A cedar 10 ins. in diam., bears S 16° W. 136 lks., dist., marked: 09 T 18 N R 1 W S 21 FT. A cedar 6 ins. in diam., bears N 34° W. 226 lks., dist., marked: 09 T 18 N R 1 W S 16 FT.
	Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar, buck brush and scrub oak. Mountainous land covered with dense underbrush and loose rocks exceptionally difficult to survey, 80.00chs. June 8, 1909.
	June 9, 1909. At 6h.00m., a.m., l.m.t., I set off 34° 57' N. on the lat. arc; 22° 57' 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 99° 59' W. on random line bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.03	Intersect the N. and S. line 12 lks. S. of the cor. of secs. 16, 17, 20 and 21. Thence I run S 99° 54' E. on true line bet. secs. 16 and 21. Descending thru scattering timber and dense underbrush over loose rocks.
12.50	Wash, 10 lks. wide, course NE. Asc. over loose rocks.
18.19	Road, bears N. and S.
35.50	Top of ridge, bears N. and S. Desc. over loose rocks.
39.55	Wash, 15 lks. wide, course NE. Asc. over loose rocks.
40.015	Set a limestone, 16X10X4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N. face; from which:- A cedar 14 ins. in diam., bears N 52° 15' E. 203 lks., dist., marked: 09 $\frac{1}{4}$ S 16 FT. A cedar 10 ins. in diam., bears S 35° 45' E. 57 lks., dist., marked: 09 $\frac{1}{4}$ S 21 FT.
45.00	Top of ridge, bears N. and S. Desc. over loose rocks.
50.60	Wash, 15 lks. wide, course N. Asc. over loose rocks.
79.00	Top of ridge, bears N. and S. Desc. over loose rocks.
80.03	The cor. of secs. 15, 16, 21 and 22. Land mountainous. Soil, rocky; 3rd rate. Timber, cedar. Underbrush, cedar, buck brush and scrub oak. Mountainous land covered with dense underbrush and loose rocks, exceptionally difficult to survey, 80.03chs.

Subdivision of Td. 18 N. Rg. 1 W.

chains.	N0°13'E. bet. secs. 15 and 16. Descending over loose rocks thru dense timber and underbrush.
9.15	Drain, course NE. Asc. steep slope over loose rocks.
19.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
32.90	Wash, 10 lks. wide, course NE. Asc. steep slope over loose rocks.
35.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
40.00	Set a limestone, 16X9X7 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked: 09 $\frac{1}{4}$ on W. face; from which:- A cedar 9 ins. in diam., bears N 55° W. 49 lks., dist., marked: 09 $\frac{1}{4}$ S 16 FT. A cedar 11 ins. in diam., bears S 55° E. 51 lks., dist., marked: 09 $\frac{1}{4}$ S 15 FT.
43.20	Wash, 10 lks. wide, course E. Asc. steep slope over loose rocks.
52.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
55.90	Wash, 15 lks. wide, course SE. Asc. steep slope over loose rocks.
63.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
69.80	Wash, 20 lks. wide, course SE. Asc. steep slope over loose rocks.
73.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
78.90	Wash, 25 lks. wide, course SE. Asc. steep slope over loose rocks.
80.00	Set a limestone, 20X10X6 ins., 15 ins. in the ground, for cor. of secs. 9, 10, 15 and 16. marked 09 on NE., with 3 notches on E. and 4 notches on S. edge; from which:- A cedar 13 ins. in diam., bears N 65° 30' E. 107 lks., dist., marked: 09 T 18 N R 1 W S 10 FT. A cedar 15 ins. in diam., bears S 37° 45' E. 116 lks., dist., marked: 09 T 18 N R 1 W S 15 FT. A cedar 12 ins. in diam., bears S 46° 15' W. 369 lks., dist., marked: 09 T 18 N R 1 W S 16 FT. A cedar 9 ins. in diam., bears N 5° 45' W. 139 lks., dist., marked: 09 T 18 N R 1 W S 9 FT.  Land, mountainous. Soil, rocky: 3rd rate. Timber, cedar. Underbrush, cedar, and buck brush. Mountainous land covered with dense timber and underbrush and loose rocks, exceptionly difficult to survey, 80.00 chs.
40.00	N 89° 54' W. on random line bet. secs. 9 and 16. Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect the N. and S. line 17 lks. N. of the cor. of secs. 8, 9, 17 and 16. Thence I run N 89° 59' E. on true line bet. secs. 9 and 16. Ascending over loose rocks thru dense timber and underbrush.
7.00	Top of ridge, bears N. and S. Desc. over loose rocks.
25.00	Drain, course S. Asc. over loose rocks.
40.03	Set a malpais stone, 14X8X6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked: 09 $\frac{1}{4}$ on N. face; from which:- A cedar 12 ins. in diam., bears S 7° 15' E. 37 lks., dist., marked: 09 $\frac{1}{4}$ S 16 FT. A cedar 9 ins. in diam., bears N 28° 45' W. 128 lks., dist., marked: 09 $\frac{1}{4}$ S 9 FT.
47.00	Top of ridge, bears NW. and SE. Desc. over loose rocks.
59.00	Drain, course S. Asc. over loose rocks.
70.00	Top of ridge, bears N. and S. Desc. over loose rocks.

## Subdivision of Tp.18 N. Rg.1 W.

chains.	
79.30	Wash, 20 lks. wide, course SE. Asc. over loose rocks.
80.06	The cor. of secs. 9, 10, 15 and 16. Land, mountainous. Soil, rocky; 3rd rate. Timber, cedar. Underbrush, cedar, buck brush. Mountainous land, covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.06 chs. June 9; At this cor. I set off $22^{\circ}56, 1/2'$ N. on the decl arc and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ}58'N$ .
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	N $0^{\circ}13'E$ . bet. secs. 9 and 10. Ascending over loose rocks thru dense timber and underbrush.
30.00	Top of ridge, bears E. and W. Desc. over loose rocks.
40.00	Set a malpais stone, 16X8X8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; from which:- A cedar 18 ins. in diam., bears N $83^{\circ}15'E$ . 247 lks., dist., marked 09 $\frac{1}{4}$ S 10 FT. A cedar 12 ins. in diam., bears S $62^{\circ}W$ . 224 lks., dist., marked; 09 $\frac{1}{4}$ S 9 FT.
58.50	Desc. steep precipitous slope over loose rocks and boulders into Hell's Canyon.
67.80	Wash, 45 lks. wide, course NE. Asc. steep rocky SE. slope.
71.00	Desc. steep NE. slope over loose rocks and boulders.
77.50	Hell's canyon wash, 1.00 lks. wide, course SE. Asc. steep slope over loose rocks.
80.00	Set a sandstone, 20X12X9 ins., 15 ins. in the ground, for cor. of secs. 3, 4, 9 and 10; marked 09 on NE., with 5 notches on S., and 3 notches on E. edge; and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. pits impracticable. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar and scrub oak. Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.00 chs.
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	S $89^{\circ}59'W$ . on random line bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect the N. and S. line 5 lks. N. of the cor. of sec 4, 5, 8 and 9; Thence I run N $89^{\circ}57'E$ . on true line bet. secs. 4 and 9. Descending over loose rocks thru dead cutting covered with dead limbs and brush and a growth of young trees.
0.03	Intersect the W. Bdy. of Tract No. 37, 112 lks. <sup>50<sup>00</sup></sup> / <sub>32</sub> of cor. No. 2., Set a malpais stone, 16X12X8 ins., 11 ins. in the ground for closing cor., marked 09 CC on W., PC on E., with 5 grooves on S. face; from which:- A cedar 4 ins. in diam., bears S $16^{\circ}W$ . 99 lks., dist., marked 09 CC T 18 N R 1 W S 8 FT. A cedar 8 ins. in diam., bears N $13^{\circ}45'W$ . 61 lks., dist., marked; 09 CC T 18 N R 1 W S 5 FT.
	Thence on blank line across private claim.
40.07	Intersect the E. Bdy of Tract No 37, 204 lks. S $0^{\circ}14'E$ . of cor. No. 1; Set a malpais stone, 18X10X6 ins., 12 ins. in the ground, for closing cor., marked 09 CC on E., PC on W., with 5 grooves on S. face; From which:- A cedar 5 ins. in diam., bears S $46^{\circ}E$ . 06 lks., dist., marked; 09 CC T 18 N R 1 W S 9 FT. A cedar 5 ins. in diam., bears N $24^{\circ}40'E$ . 49 lks., dist., marked 09 CC T 18 N R 1 W S 4 FT.



## Subdivision of Tp.18 N., Rg.1 W.

chains.	
	Desc. steep slope over loose rocks and boulders thru dense timber and underbrush.
42.00	Drain, course NE.
47.00	Same Drain, course SE.
77.00	Hell's Canyon Wash, 200 lks. wide, course SE. Asc. steep slope over loose rocks and boulders.
80.08	The cor. of secs. 3, 4, 9 and 10. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, scrub oak and cedar. Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.08 chs.
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40.00	N 0°13'E. on random line bet. secs. 3 and 4. Set temp. $\frac{1}{4}$ sec. cor.
80.82	Intersect the N. Bdy. of the Tp. 7 lks. E. of the cor. of secs. 3, 4, 33 and 34. Thence I run S 0°10'W. on true line bet. secs. 3 and 4. Ascending over loose malpais rocks exceptionally difficult to walk over thru scattering timber and underbrush.
25.00	Top of ridge, bears E. and W. Desc. over loose rocks exceptionally difficult to walk over.
33.60	Road, bears NW. and SE.
37.00	Leave rocks.
40.82	Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked 09 $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3, 1/2 ft. base, 1, 1/2 ft. high, W. of cor.
56.00	Desc. steep slope over loose rocks thru dense timber and underbrush.
62.60	Drain, course W. Ascend.
64.00	Descend into Hells Canyon
80.70	35 ft. bluff.
80.82	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 or land covered with loose rocks exceptionally difficult to walk over, exceptionally difficult to survey, 61.82 chs. June 9, 1909.
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	June 10; At 6h.00m., a.m., l.m.t., I set off 34°54, 1/2' N. on the lat. arc; 23°02' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 34 and 35 on the S. Bdy. of the Tp. Thence I run N 0°13'E. bet. secs. 34 and 35. Ascending steep slope over loose rocks thru scattering underbrush.
4.50	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
10.80	Intersect the S. bdy. of Tract No. 39. 275 lks N 88°31' W. of cor. No 5. Set a limestone 18X10X6 ins., 12 ins. in the ground, for closing cor; marked 09 CC on S., PC and N., with 2 grooves on E. face; from which:- A cedar 12 ins. in diam., bears S 5° E. 39 lks., dist., marked: 09 CC T 18 N R 1 W S 35 FT. A cedar 5 ins. in diam., bears S 71° 25' W. 199 lks., dist., marked 09 CC T 18 N R 1 W S 34 FT. Thence on blank line across private claim.

## Subdivision of Tp.18 N., Rg.1 W.

chains.	
30.80	Intersect the N. Rdy. of Tract No. 39, 2.34 lks. N88°22'W. of cor. No. 2; Set a limestone, 16X10X6 ins., 11 ins. in the ground, for closing cor., marked 09 CC on N., PC on S. with 2 grooves on E. face; and raise a mound of stone, 2 ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.
31.15	King's house bears S 64°15'E. King's Barn bears S 64°55'E. King's shed, bears S 62°45'E.
31.50	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
38.00	Wash, 10 lks. wide, course NE. Asc. steep slope over loose rocks.
40.00	Set a limestone, 16X9X9 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on W. face; from which:- A cedar 8 ins. in diam., bears S 41°15'E. 52 lks., dist., marked; 09 1/4 S 35 BT. A cedar limb 5 ins. in diam., bears S 48°45'W. 61 lks., dist., marked; 09 1/4 S 34 BT.
50.00	Top of ridge, bears NE and SW. Desc. steep slope over loose rocks.
56.75	Wash, 35 lks. wide, course E. Asc. steep slope over loose rocks.
70.00	Along steep rocky E. slope over loose rocks.
80.00	Set a malpais stone, 20X11X8 ins., 15 ins. in the ground, for cor. of secs. 26, 27, 34 and 35; marked 09 on NE., with 1 notch on S., and 2 notches on E. edge. from which:- A cedar 8 ins. in diam., bears N 51°30'E. 112 lks., dist., marked; 09 T 18 N R 1 W S 26 BT. A cedar 10 ins. in diam., bears S 38°15'E. 114 lks., dist., marked; 09 T 18 N R 1 W S 35 BT. A cedar 7 ins. in diam., bears S 36°W. 26 lks., dist., marked; 09 T 18 N R 1 W S 34 BT. A cedar 12 ins. in diam., bears N 37°15'W. 182 lks., dist., marked; 09 T 18 N R 1 W S 27 BT.
	Land, mountainous. Soil, rocky: 4th rate. Timber, cedar. Underbrush, cedar and buck brush. Mountainous land covered with loose rocks and dense timber and underbrush, 80.00 chs.
	West on random line bet. secs. 27 and 34.
40.00	Set temp. 1/4 sec. cor.
80.02	Intersect the N. and S. line 3 lks. S. of the cor. of secs. 27, 28, 33 and 34. Thence I run S 89°59'E. on true line bet. secs. 27 and 34. Descending steep slope over loose rocks thru dense timber and underbrush.
5.45	Wash, 50 lks. wide, course SE. Asc. steep slope over loose rocks.
7.75	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
10.20	Wash, 25 lks. wide, course S. Asc. steep slope over loose rocks.
22.00	Top of ridge, bears NW. and SE. Desc. steep slope over loose rocks.
37.50	Wash, 30 lks. wide, course SE. Asc. steep slope over loose rocks.
40.01	Set a limestone, 20X12X10 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on N. face; from which:- A cedar 6 ins., in diam., bears S 83°E. 132 lks., dist., marked; 09 1/4 S 34 BT. No other tree available; Raise a mound of stone, 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.
46.35	Wash, 15 lks. wide, course S. Asc. steep slope over loose rocks.

Subdivision of Tp.18 N., Rg.1 W.

chains	
48.50	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
50.65	Drain, course S. Asc. steep slope over loose rocks.
64.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
71.30	Wash, 25 lks. wide, course SSE. Asc. steep slope over loose rocks.
79.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
80.02	The cor. of secs. 26, 27, 34 and 35. Land, mountainous. Soil, rocky 4th rate. Timber, cedar. Underbrush, cedar, buck brush and scrub oak. Mountainous land covered with loose rocks and dense timber and underbrush exceptionally difficult to survey, 80.02 chs.
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	From the cor. of secs. 35 & 36 on S. bdy. I run N 0°14'E. bet. secs. 35 and 36.
5.00	Ascending steep slope over loose rocks. Top of ridge, bears NE. and SW. Desc. steep slope over loose rocks thru dense timber.
18.00	Drain, course W. Asc. steep slope over loose rocks.
39.00	Along steep W. slope over loose rocks thru dense timber and underbrush.
40.00	Point for $\frac{1}{4}$ sec. cor. falls on a limestone ledge 4ft. high running around hill. Cut a cross (X) at the point for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ W. of cross. from which:- A pinon 6ins. in diam., bears S 50°W. 77 lks., dist. marked: 09 $\frac{1}{4}$ S 35 BT. A cedar 5ins. in diam., bears S 70°E. 123 lks., dist. marked: 09 $\frac{1}{4}$ S 36 BT.
44.00	Wash, 35 lks. wide, course SW. Asc. steep slope over loose rocks.
50.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
65.00	Wash, 20 lks. wide, course SW. Asc. steep slope over loose rocks.
76.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
80.00	Set a limestone, 16X8X6ins., 11ins. in the ground, for cor. of secs. 25, 26, 35 and 36; marked 09 on NE., with 1 notch on S. and E. edges. from which:- A pinon 12ins. in diam., bears N 56°45'E. 137 lks., dist. marked: 09 T 18 N R 1 W S 25 BT. A cedar 10ins. in diam., bears S 23°30'E. 377 lks., dist. marked: 09 T 18 N R 1 W S 36 BT. A cedar 6ins. in diam., bears S 61° W. 191 lks., dist. marked: 09 T 18 N R 1 W S 35 BT. A cedar 4ins. in diam., bears N 65°20'W. 241 lks., dist. marked: 09 T 18 N R 1 W S 26 BT. Land, mountainous. Soil, rocky: 4th rate. Timber, cedar and pinon. Underbrush, cedar and scrub oak. Mountainous land covered with dense timber and underbrush and loose rocks exceptionally difficult to survey, 80.00 chs.
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40.00	West on random line bet. secs. 26 and 35. Set temp $\frac{1}{4}$ sec. cor.
80.04	Intersect the N. and S. line 5 lks. S. of the cor. of secs. 26, 27, 34 and 35. Thence I run S 89°58'E. on true line bet. secs. 26 and 35. Descending steep rocky slope thru dense timber and underbrush.

## Subdivision of Tp.18 N., Rg.1 W.

chains	
17.60	Wash, 10 lks. wide, course SE. Asc. along W. slope over loose rocks.
23.77	Road, bears NW. and SE.
28.00	Top of ridge, bears NW. and SE. Desc. over loose rocks.
40.02	Set a sandstone, 20x10x8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N. face. from which:- A cedar 14 ins. in diam., bears N 17°30'E. 341 lks., dist., marked; 09 $\frac{1}{4}$ S 26 BT. A cedar 12 ins. in diam., bears S 5°50'E. 399 lks., dist., marked; 09 $\frac{1}{4}$ S 35 BT.
41.43	Wash, 20 lks. wide, course SE. Asc. over loose rocks.
45.90	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
58.00	Wash, 15 lks. wide, course S. Asc. over loose rocks.
80.04	The cor. of secs. 25, 26, 35 and 36. Land, mountainous. Soil, rocky; 3rd rate. Timber, cedar. Underbrush, cedar and scrub oak Mountainous land covered with loose rocks and dense timber and underbrush exceptionally difficult to survey, 80.04 chs. June 10: At this cor. I set off 23°01' N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 34°55, 1/2' N. ✓
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2.38	East bet. secs. 25 and 36. Ascending steep slope over loose rocks thru dense timber and underbrush. Intersect the Meridian 11.31 chs. N 7° 33' W. of Cor. of secs. 25 & 36 Set a limestone, 23x14x10 ins., 17 ins. in the ground for closing cor. bet. secs. 25 and 36., marked 09 CC on W., with 5 grooves on N., and 1 groove on the S. face; from which:- A pinon 9 ins. in diam., bears N 59°15' W. 31 lks., dist., marked; 09 CC T 18 N R 1 W S 25 BT. A cedar 6 ins. in diam., bears S 13°30' W. 45 lks., dist., marked; 09 CC T 18 N R 1 W S 36 BT. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar and pinon. underbrush, cedar. Mountainous land covered with loose rocks and dense timber and underbrush exceptionally difficult to survey, 2.38 chs.
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5.35	N 0° 14' E. bet. secs. 25 and 26. Descending steep slope over loose rocks thru dense timber and underbrush.
11.50	Wash, 15 lks. wide, course W. Wash, 25 lks. wide, course W. Asc. steep slope over loose rocks.
17.47	Intersect the meridian 11.21 chs. S 7°33' E. of $\frac{1}{4}$ cor. on Meridian for sec. 25., This point falls on limestone in place, 2, 1/2 X 3, 1/2 ft. X 16 ins. above ground, mark cross (X) at the exact point for closing cor. bet. secs 25 and 26, marked 09 CC, S. of cross from which:- A pinon 4 ins. in diam., bears S 55° W. 108 lks., dist., marked; 09 CC T 18 N R 1 W S 26 BT. No other tree available. Raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, S. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th rate. Timber, pinon and cedar. underbrush, cedar and scrub oak. Mountainous land covered with dense timber and underbrush, and loose rocks exceptionally difficult to survey, 17.47 chs.

## Subdivision of Tp.18 N.,Rg.1 W.

chains.	
	N 0°13'E. bet.secs.26 and 27. Descending steep slope over loose rocks thru dense timber and underbrush.
6.00	Head of draw,course E. Asc.steep slope over loose rocks
28.00	Top of ridge,bears E.and W. Desc.steep slope over loose rocks.
39.50	Wash,25 lks.wide,course E. Asc.steep slope over loose rocks.
40.00	Set a limestone,18X8X6ins.,12ins.in the ground,for $\frac{1}{4}$ sec.cor.;marked: 09 $\frac{1}{4}$ on W. face; from which:- A cedar 18ins.in diam.,bears S 25°E. 210 lks., dist.,marked: 09 $\frac{1}{4}$ S 26 BT. A cedar 6ins.in diam.,bears S 70° W. 99 lks., dist.,marked: 09 $\frac{1}{4}$ S 27 BT.
40.16	Road,bears E.and W.
45.60	Top of ridge,bears E.and W. Desc.steep slope over loose rocks.
58.39	Wash,15 lks.wide,course E.
60.90	Wash,20 lks.wide,course E. Asc.steep slope over loose rocks.
64.10	Wash,15 lks.wide,course E.
70.00	Top of ridge,bears E.and W. Desc.steep slope over loose rocks.
74.75	Wash,10 lks.wide,course E. Asc.steep slope over loose rocks.
80.00	Set a malpais stone,18X10X8ins.,12ins.in the ground, for cor.of secs.22,23,26 and 27,marked 09 on NE.,with 2 notches on S. and E. edges.; from which:- A cedar 10ins.in diam.,bears N 25°15'W. 260 lks., dist.,marked 09 T 18 N R 1 W S 22 BT. A cedar 8ins.in diam.,bears N 44°45'E. 33 lks., dist.,marked: 09 T 18 N R 1 W S 23 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,cedar. Underbrush,cedar and buck brush. Mountainous land covered with loose rocks and dense timber and underbrush,exceptionally difficult to survey,80.00 chs.
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	N 89°59'W. on tandom line bet.secs.22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.98	Intersect the N.and S. line at the cor.of secs.21,22 27 and 28. Thence I run S 89°59'E. on true line bet.secs.22 and 27. Descending steep slope over loose rocks thru dense underbrush.
3.50	Wash,15 lks.wide course ENE. Asc.steep slope over loose rocks.
20.00	Top of ridge,bears NE.and SW. Along steep slope over loose rocks.
29.00	Wash,20 lks.wide,course SE. Asc.steep slope over loose rocks.
39.99	Set a malpais stone,20X10X6ins.,15ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked 09 $\frac{1}{4}$ on N. face; from which:- A cedar 7ins.,in diam.,bears N 9°05'W. 298 lks., dist.,marked: 09 $\frac{1}{4}$ S 22 BT. A cedar 7ins.in diam.,bears S 4°05'E. 106 lks., dist.,marked 09 $\frac{1}{4}$ S 27 BT.
40.50	Top of ridge,bears N.and S. Desc.steep slope over loose rocks.
45.00	Wash,10 lks.wide,course SE. Asc.steep slope over loose rocks.
53.00	Top of ridge,bears NW.and SE. Desc.steep slope over loose rocks.

## Subdivision of Tp.18 N., Rg.1 W.

chains.	
56.80	Wash, 20 lks. wide, course SE. Asc. steep slope over loose rocks.
62.00	Drain, course SE.
69.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
78.00	Wash, 20 lks. wide, course SE. Asc. steep slope over loose rocks.
79.98	The cor. of secs. 23, 22, 26 and 27. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, wild currant, buck brush and scrub oak. Mountainous land covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey 79.98 chs.
	East bet. secs. 23 and 26. Descending over loose rocks thru dense timber and underbrush.
25.25	Wash, 55 lks. wide, course SE.
36.10	Wash, 15 lks. wide, course S. Asc. steep slope over loose rocks.
40.00	Set a malpais stone, 16x11x8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked 09 $\frac{1}{4}$ on N. face; from which:- A cedar 11 ins. in diam., bears S 35°30'W. 96 lks., dist., marked: 09 $\frac{1}{4}$ S 26 BT. A cedar 6 ins. in diam., bears N 59°45'E. 68 lks., dist., marked: 09 $\frac{1}{4}$ S 23 BT.
44.00	Top of ridge, bears N. and S. Desc. over loose rocks.
68.00	Descent becomes steep over loose rocks.
71.52	Intersect the Meridian 12.08 N 7°33'W. of cor. of secs. 24 & 25 in the ground, for closing cor. bet. secs. 23 and 26., marked 09 CC on W., with 2 grooves on S., and 4 grooves on N. face; from which :- A cedar 12 ins. in diam., bears N 19°30'W. 58 lks., dist., marked: 09 CC T 18 N R 1 W S 23 BT. A cedar 15 ins. in diam., bears S 71°15'W. 67 lks., dist., marked: 09 CC T 18 N R 1 W S 26 BT. Land, mountainous. Soil, rocky 3rd rate. Timber, cedar. Underbrush, cedar. Mountainous land covered with loose rocks and dense timber and underbrush exceptionally difficult to survey, 71.52 chs.
	June 10, 1909.
	June 11: At 6h.00m., a.m., l.m.t., I set off 34°56'N. on the lat. arc; 23°06, 1/2'N.W. on the decl. arc and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27. Thence I run N 0°13'E. bet. secs. 22 and 23. Ascending over loose rocks thru dense timber and underbrush.
2.00	Leave dense timber, bears E. and W. thru dense underbrush
6.00	Top of ridge, bears NW. and SE. Desc. over loose rocks.
11.20	Wash, 30 lks. wide, course SE. Asc. over loose rocks.
35.00	Top of ridge, bears E. and W. Desc. over loose rocks.
40.00	Set a granite stone, 18x9x6 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 stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.
45.80	Wash, 20 lks. wide, course SE. Asc. steep slope over loose rocks.
57.00	Top of ridge, bears NW. and SE. Desc. over loose rock.

Subdivision of Tp.18 N.,Rg.1 W.

chains.	
74.20	Wash, 20 lks. wide, course E. Asc. over loose rocks.
80.00	Set a limestone, 18x9x8 ins., 12 ins. in the ground, for cor. of secs. 14, 15, 22 and 23; marked 09 on NE., with 3 notches on S., and 2 notches on E. edges. from which- A cedar 7 ins. in diam., bears N 60° 45' E. 52 lks., dist., marked; 09 T 18 N R 1 W S 14 BT. A cedar 7 ins. in diam., bears S 48° 15' E. 3 lks. dist., marked; 09 T 18 N R 1 W S 23 BT. A cedar 8 ins. in diam., bears S 46° 45' W. 84 lks., dist., marked; 09 T 18 N R 1 W S 22 BT. A cedar limb 5 ins. in diam., bears N 24° 15' W. 14 lks. dist., marked; 09 T 18 N R 1 W S 15 BT.
	Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, wild currant, buck brush and scrub oak. Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 80.00 chs
40.00	N 89° 59' W. on random line bet. secs. 15 and 22. Set temp. 1/4 sec. cor.
80.03	Intersect the N. and S. line 3 lks. S. of the cor. of secs. 15, 16, 21 and 22. Thence I run S 89° 58' E. on true line bet. secs. 15 and 22. Descending E. slope over loose rocks thru scattering timber and dense underbrush.
10.00	Asc. NW. slope over loose rocks.
27.00	Top of ridge, bears NE. and SW. Desc. over loose rocks.
40.015	Set a sandstone, 24x9x8 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on N. face; from which:- A cedar 14 ins. in diam., bears N 5° E. 210 lks., dist., marked 09 1/4 S 15 BT. No other tree available. 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.
51.70	Wash, 15 lks. wide, course SE. Asc. steep slope over loose rocks.
57.00	Top of ridge, bears N. and S. Desc. steep slope over loose rocks.
77.20	Wash, 15 lks. wide, course S. Asc. steep slope over loose rocks.
80.03	The cor. of secs. 14, 15, 22 and 23. Land, mountainous. Soil, rocky; 3rd rate. Timber, cedar. Underbrush, currant, buck brush and scrub oak. Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 80.03 chs. June 11: At this cor. I set off 23° 05, 1/2 'N. on the decl. arc and observe the sun on the meridian at noon the resulting lat. is 34° 57' N.
	East bet. secs. 14 and 23. Descending over loose rocks thru dense timber and underbrush.
10.00	Desc. over loose rocks in to draw, course SE.
20.00	Wash, 10 lks. wide, course SE. Asc. over loose rocks.
22.42	Wirefence, bears N. and S.
22.90	Wash, 25 lks., wide, course S. over large rocks and boulders exceptionally difficult to walk over.
35.00	Along steep S. slope over loose rocks.
40.00	Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on N. face; from which:- A cedar, 9 ins. in diam., bears S 60° E. 20 lks., dist., marked; 09 1/4 S 23 BT. A cedar 4 ins. in diam., bears N 25° W. 30 lks., dist., marked 09 1/4 S 14 BT.

## Subdivision of Tp.18 N. Rg.1 W.

chains.

60.49

Intersect the Meridian 12.41 chs. N  $7^{\circ}33'$  W. from cor. of secs. 13 & 24. Set a malpais stone, 24x12x9 ins., 18 ins. in thr ground, for closing cor. bet. secs. 14 and 23., marked 09 CC on W. face; with 3 grooves on S. and N. faces; raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar.

Underbrush, cedar and scrub oak.

Mountainous land covered with dense timber and underbrush and loose rocks exceptionally difficult to survey, 60.49 chs.

N  $0^{\circ}13'$  E. bet. secs. 14 and 15.

Ascending SE. slope over loose rocks thru dense timber and underbrush.

34.00

Asc. SW. slope over loose rocks.

40.00

Set a limestone, 18x11x7 ins., 12 ins. in the ground, for 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.

62.00

Desc. steep perceptitious slope over rocks and boulders into Hell's canyon.

67.00

Drain, course E. Asc. steep perceptitious slope over loose rocks.

76.00

Desc. steep perceptitious slope over loose rocks.

80.00

Set a red malpais stone, 20x14x6 ins., 15 ins. in the ground, for cor. of secs. 10, 11, 14 and 15. marked 09 on NE with 4 notches on S. and 2 notches on E. edge; from whi

A cedar 14 ins., indian., bears N  $68^{\circ}$  E. 44 lks.,  
dist., marked: 09 T 18 N R 1 W S 11 BT.

A cedar 22 ins. in diam., bears S  $88^{\circ}$  E. 10 lks.,  
dist., marked: 09 T 18 N R 1 W S 14 BT.

A cedar 16 ins. in diam., bears S  $49^{\circ}$  W. 81 lks., dist.  
marked: 09 T 18 N R 1 W S 15 BT.

A cedar 10 ins. in diam., bears N  $15^{\circ}$  W. 34 lks.,  
dist., marked: 09 T 18 N R 1 W S 10 BT.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar.

underbrush, cedar and scrub oak.

Mountainous land covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey, 80.00 chs.

June 11, 1909.

June 12: At 6h.00m., a.m., l.m.t., I set off  $34^{\circ}58'$  N. on the lat. arc;  $23^{\circ}10, 1/2'$  N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15.

Thence I run

N  $89^{\circ}58'$  W. on random line bet. secs. 10 and 15.

40.00

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

80.02

Intersect the N. and S. line 7 lks. N. of the cor. of secs. 9, 10, 15 and 16.

Thence I run

N  $89^{\circ}59'$  E. on true line bet. secs. 10 and 15.

Ascending over loose rocks thru dense timber and underbrush.

8.00

Top of ridge, bears N. and S. Desc. over loose rocks.

22.75

Wash, 15 lks. wide, course S. Asc. over loose rocks.

34.00

Top of ridge, bears N. and S. Desc. over loose rocks.

40.01

Set a limestone, 16x9x8 ins., 11 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked 09  $\frac{1}{4}$  on N. face; from which:-

A cedar 8 ins. in diam., bears S  $24^{\circ}$  W. 172 lks.  
dist., marked: 09  $\frac{1}{4}$  S 15 BT.



## Subdivision of Tp.18 N.,Rg. 1 W.

chains.	
	A cedar 30ins.in diam.,bears N 35°30'W. 49 lks., dist.,marked: 09 $\frac{1}{4}$ S 10 RT.
74.30	Top of Wall of Hell's Canyon,40ft.bluff,bears NW.and SE
74.40	Foot of bluff. Desc.steep preceptitious slope into Hell's Canyon.
80.02	The cor.of secs.10,11,14 and 15. Land,mountainous. Soil,rocky: 4th rate. Timber,cedar. Underbrush,cedar and scrub oak. Mountainous land covered with loose rocks and dense timber and underbrush,exceptionally difficult to survey,80 02 chs.
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	East bet.secs.11 and 14. Descending steep rocky slope of Hells Canyon thru dense timber and underbrush.
2.50	Hells Canyon wash,150 lks.wide,course SE. Asc.steep preceptitious slope over loose rocks.
15.00	Top of Canyon wall Desc.along steep S. slope over loose rocks.
26.00	Desc.steep E. slope over loose rocks.
40.00	Set a malpais atone,18X11X8ins.,12ins.inthe ground, for $\frac{1}{4}$ sec.cor.,marked 09 $\frac{1}{4}$ on N.face; from which:- A cedar 7ins.in diam.,bears S 3°E. 87 lks., dist.,marked: 09 $\frac{1}{4}$ S 14 RT. A cedar 10ins.in diam.,bears N 15°30'W. 360 lks; dist.,marked: 09 $\frac{1}{4}$ S 11 RT.
43.00	Road,bears N. and S.
49.60	Intersect the Meridian 12.81 chs,N 7°33'W. from cor, of secs. 12 & 13. Set a malpais atone,23X12X8ins.,17ins. in the ground,for closing cor. bet.secs.11 and 14; marked 09 00 on W. face; with 2 notches on N.,and 4 notches on S. face; and raise a mound of stones,2ft. base,1,1/2 ft.high,W. of cor. Pits impraticable. Land,mountainous. Soil,rocky: 4th rate. Timber,cedar. Underbrush,cedar and scrub oak. Moun ainous land covered with loose rocks and dense timber and underbrush,exceptionally difficult to survey,49.60 chs.
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	N 0°13'E. bet.secs.10 and 11. Descending steep preceptitious lope over loose rocks thru dense timber and underbrush.
5.00	Wash,150 lks.wide,course SE. Asc.steep preceptitious slope over loose rocks.
24.00	Top of Canyon wall,bears SE. Over loose malpais rocks exceptionally difficult to walk over.
40.00	Set a malpais stone,16X8X7ins.,11ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked 09 $\frac{1}{4}$ on W. face; from which:- A cedar 11ins.in diam.,bears S50°30'E 52 lks., dist.,marked: 09 $\frac{1}{4}$ S 11 RT. A cedar 6ins.in diam.,bears S 68°40'W. 30 lks., dist.,marked: 09 $\frac{1}{4}$ S 10 RT.
42.00	Old road,bears NW.and SE.
80.00	Set a malpais stone,18X7X8ins.,12ins.in the ground, for cor.of secs. 2,3,10 and 11,marked 09 on NE.,with 5 notches on S.,and 2 notches on E. edge; from which:- A cedar 10ins.in diam.,bears N 35°30'E. 90 lks., dist.,marked: 09 T 18 N R 1 W S 2 RT. A cedar 7ins.in diam.,bears S 47°10'E. 185 lks., dist.,marked: 09 T 18 N R 1 W S 11 RT. A cedar 6ins.in diam.,bears S 19° W. 104 lks., dist.,marked: 09 T 18 N R 1 W S 10 RT. A cedar 5ins.in diam.,bears N 64°45'W. 122 lks., dist.,marked 09 T 18 N R 1 W S 3 RT.

## Subdivision of Tp.18 N., R.E.1 W.

chains.	
	Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush; cedar, and scrub oak. Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.00 chs. June 12; At this cor. I set off $23^{\circ}09', 1/2'' N.$ on the decl arc and observe the sun on the meridian at noon the resulting lat. is $34^{\circ}59' N.$
40.00	S $89^{\circ}59' W.$ on random line bet. secs. 3 and 10. Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line 12 lks. N. of the cor. of secs. 3, 4, 9 and 10. Thence I run. N $89^{\circ}54' E.$ on true line bet. secs. 3 and 10. Asc. steep slope over loose rocks thru dense timber and underbrush.
20.00	Over nearly level land covered with loose rocks exceptionally difficult to walk over.
30.00	Leave rocks.
40.00	Set a cedar post, 3ft. long 3ins. sq., 24ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $09 \frac{1}{4} S 3$ on N. face and 10 on S. face from which A cedar 6ins. in diam., bears S $5^{\circ} W.$ 60 lks. dist., marked: $09 \frac{1}{4} S 10 RT.$ A cedar 6ins. in diam., bears N $5^{\circ} W.$ 40 lks., dist., marked: $09 \frac{1}{4} S 3 RT.$
55.10	Road, bears NW. and SE.
80.00	The cor. of secs. 2, 3, 10 and 11. Land mountainous and nearly level. Soil, rocky and gravelly; 3rd and 4th rate. Timber, cedar. Underbrush, cedar and scrub oak. Mountainous land or land covered with dense timber and underbrush, 50.00 chs. Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 30.00 chs.
18.70	East bet. secs. 2 and 11. Descending steep slope over loose rocks thru scattering timber and dense underbrush. Wash, 75 lks. wide, course S. Asc. steep slope over loose rocks.
38.55	Intersect the Meridian 13.56 chs. N $7^{\circ}33' W.$ of cor. of secs. 1 & 12. Set a malpais stone, 20X9X6ins., 15ins. in the ground, for closing cor. of secs. 2 and 11. marked 09 CC on W. face, with 5 grooves on S. face, and 1 groove on N. face; 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, cedar Underbrush, scrub oak. Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 38.55 chs.
40.00	N $0^{\circ}13' E.$ on random line bet. secs. 2 and 3. Set temp. $\frac{1}{4}$ sec. cor.
80.78	Intersect the N. bdy. of the Tp. 7 lks. W. of the cor. of secs. 2, 3, 34 and 35. Thence I run S $0^{\circ}16' W.$ on true line bet. secs. 2 and 3. Descend into Wagon tire Canyon over loose rocks thru dense underbrush.

Subdivision of Tp.18 N.,Rg.1 W.

chains.	
15.00	Wash, 100 lks. wide, course, SE. Along steep W. side of Wagon Tire Canyon over loose rocks.
38.50	Asc. steep NE. slope over loose rocks.
40.78	Set A malpais stone, 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.
44.00	Ascent becomes more gradual over loose rocks very difficult to walk over.
68.15	Drain, course E. Asc. over loose rocks thru scattering timber and dense underbrush.
80.78	The cor. of secs. 2, 3, 10 and 11. Land, mountainous. Soil, rocky: 4th rate. Timber, cedar. Underbrush, scrub oak. Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 80.78 chs. June 12, 1909.

General Description.

This Township is rolling excepting the S. E corner which is rough and mountainous. The Verde River runs through the south part of secs. 34 and 35. The soil is generally rocky and of no value for agricultural purposes excepting in the S. W. cor. of the Tp. There is one settler in sec. 35. In making this survey I destroyed the old corners, and bearing trees west of Meridian were changed to refer to the secs. on which they now stand.

*Alfred A. Plummer*  
 U. S. Deputy Surveyor.

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

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

See Book A. Page J. 20 N. R. 1 W.

LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_

\_\_\_\_\_, 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 \_\_\_\_\_

showing the respective capacities in which they acted:

- \_\_\_\_\_, *Chainman.*
- \_\_\_\_\_, *Chainman.*
- \_\_\_\_\_, *Moundman.*
- \_\_\_\_\_, *Moundman.*
- \_\_\_\_\_, *Axman.*
- \_\_\_\_\_, *Axman.*
- \_\_\_\_\_, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_

\_\_\_\_\_, United States Deputy Surveyor, in surveying all those parts or portions of the \_\_\_\_\_

\_\_\_\_\_ of the \_\_\_\_\_

\_\_\_\_\_ meridian, \_\_\_\_\_ of \_\_\_\_\_, 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 \_\_\_\_\_

- \_\_\_\_\_, *Chainman.*
- \_\_\_\_\_, *Chainman.*
- \_\_\_\_\_, *Moundman.*
- \_\_\_\_\_, *Moundman.*
- \_\_\_\_\_, *Axman.*
- \_\_\_\_\_, *Axman.*
- \_\_\_\_\_, *Flagman.*

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 189 \_\_\_\_\_ }



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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

*(See Book A. Oaths To N. R. 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 \_\_\_\_\_, 189\_\_\_\_, 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; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
 this \_\_\_\_\_ day of \_\_\_\_\_, 189\_\_\_\_



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Phoenix, Arizona April 27, 189 1910.*

The foregoing field notes of the survey of *by miles and bounds, of the private tracts in Tp. 18 N. Rg. 1 W. and the resurvey of said Township, Gila and Salt River Basins and Meridian, Arizona*

executed by *Alfred N. Oliver, U.S. Deputy Surveyor* under his contract No. *153*, dated *November 19, 1908*, 189\_\_\_\_ having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Frank S. Fitzgerald*  
 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.