

38

NOV 1909

Book B.

Filing authorized. L. E. 8/31/1910.

BOOK 2182 2182

FIELD NOTES

OF THE SURVEY OF THE

2182

2182

Private Claim Lines and Resurvey of the Subdivision Lines of

Tp. 19 N. Rg. 1 W.

2182

Of the Gila and Salt River Meridian,

Territory of Arizona.

AS SURVEYED BY

Alfred N. Oliver, United States Deputy Surveyor,

Under his Contract No. 153, dated November 19th, 1908, 189

Survey commenced May 8, 1909, 189

Survey completed June 25, 1909, 189

2182

2182

2182

Disposals and Valid Entries in T. 19 N., R. 1 W.

Description	Area	Kind	No.	Date	Name
Sec. 1	640.54	Selected	List 16	Jun. 30, 1896	A. & P.R.R.Co.
Sec. 3	641.46	Selected	List 16	Jun. 30, 1896	A. & P.R.R.Co.
Frac. Sec. 5	255.70	Selected	List 16	Jun. 30, 1896	A. & P.R.R.Co.
SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 8	40.00	Lieu Sel.	11938	Nov. 1, 1904	S.F.P.R.R.Co.
Sec. 9	640.00	Selected	List 16	Jun. 30, 1896	A. & P.R.R.Co.
N $\frac{1}{2}$ Sec. 11	320.00	Selected	List 16	Jun. 30, 1896	A. & P.R.R.Co.

WE HEREBY CERTIFY that the above is a correct, full, and true list of all disposals and valid entries in T. 19 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,

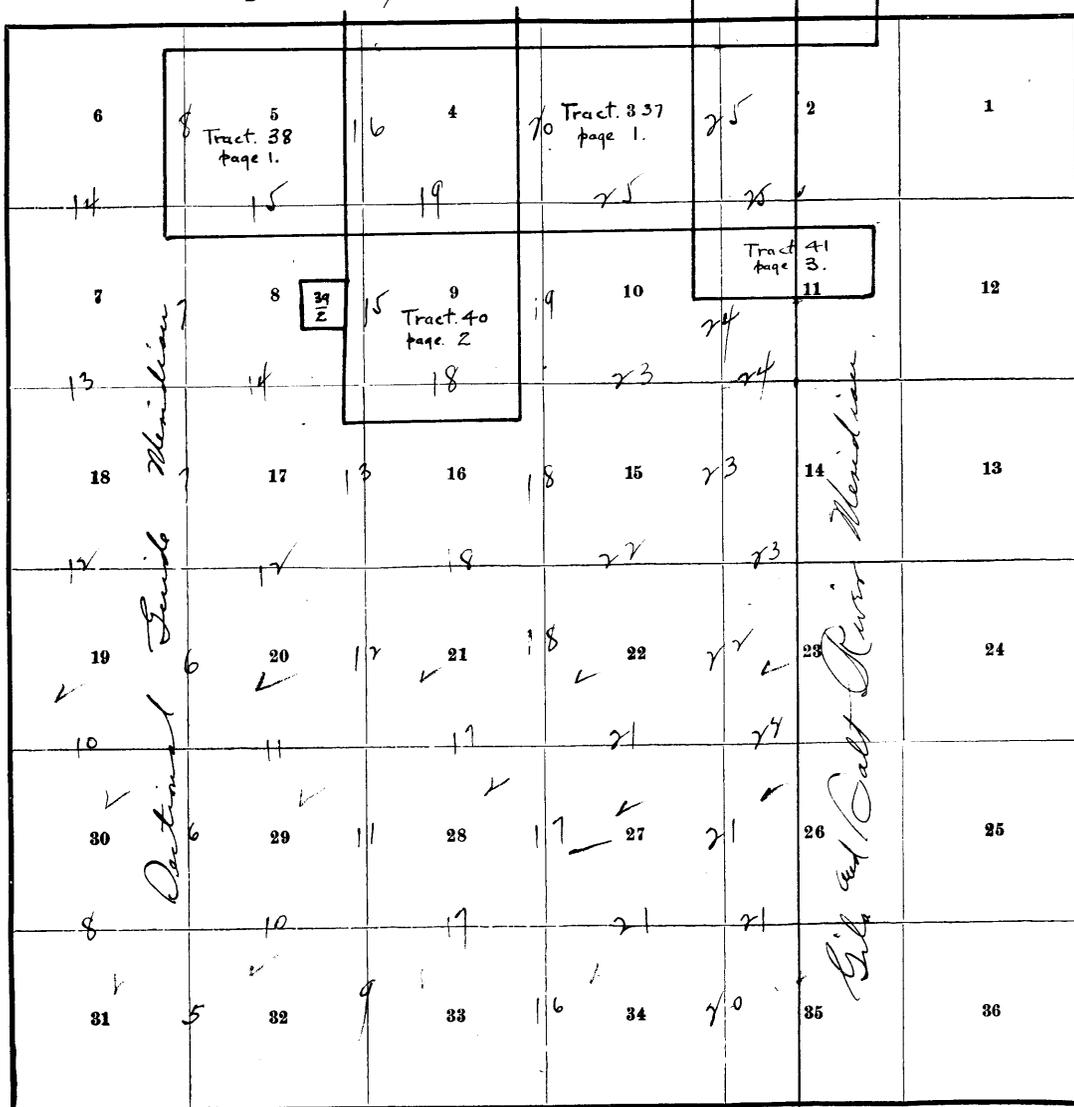
Dec 1, 1908.

47

BOOK 2182

INDEX DIAGRAM.

Township 19 N., Range 1 W.



Meanders Page.....

3

PRELIMINARY OATHS OF ASSISTANTS.

See Book A. Sub. of T. 17th. R. W.

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 Tp. 19 N. Rg. 1 W.

Chains.

Tract 37-Selected; List-16, June 30, 1896; A. & P.R.R. Co. originally described as Sec. 3, T19N.R1W.

May 8: At 7h. 00m. a.m., l.m.t., I set off 35° 05' N. on the lat. arc; 17° 02' N. on the decl. arc; and determine a meridian with the solar at cor. No. 1 tract 37 which is also cor. No. 5 of tract No. 48 Tp. 20 N. Rg. 1 W. which has been previously described

Thence I run
S. 87° 28' W.

39.00 Old 1/4 sec. cor. which I destroy and in the same place set a malpais stone 16 x 8 x 6 ins. 11 ins. in the ground for cor. No. 2, marked 2-37 on S. face.

Thence I run
S. 89° 22' W.

40.50 Cor. No. 3, also cor. No. 7 of tract No. 47 Tp. 20 N. Rg. 1 W. which has been previously described.

Thence I run
S. 0° 33' E.

40.22 Old 1/4 sec. cor. which I destroy and in the same place set a stone 16 x 8 x 8 ins. 11 ins. in the ground for cor. No. 4, marked 4-37 on E. face.

Thence I run
S. 0° 13' E.

40.17 Old sec. cor. which I destroy and in the same place set a malpais stone 14 x 14 x 4 ins. 9 ins. in the ground for cor. No. 5 of tract 37 and cor. No. 1 of tract 40 marked 1-40 on S. W. and 5-37 on N. E. face.

May 8: At this cor. I set off 17° 04 1/2' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 35° 04' N.

Thence I run
S. 89° 06' E.

40.36 Old 1/4 sec. cor. which I destroy and in the same place set a malpais stone 16 x 8 x 6 ins. 11 ins. in the ground for cor. No. 6 marked 6-37 on N. face.

Thence I run
N. 84° 48' E.

38.25 Old sec. cor. which I destroy and in the same place set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. No. 3 of tract 41 and cor. No. 7 of tract 37, marked 3-41 on S. E. and 7-37 on N. W. faces.

Thence I run
N. 0° 51' W.

40.02 Old 1/4 sec. cor. which I destroy and in the same place set a malpais 18 x 8 x 6 ins. 12 ins. in the ground for cor. No. 8, marked 8-37 on W. face.

Thence I run
N. 2° 05' E.

39.98 Cor. No. 1, place of beginning.

Area 633.81 Acres

May 8, 1909.

Tract 38-Selected; List 16, June 30, 1896; A. & P.R.R. Co. originally described as Sec. 5, T19N.R1W.

May 9: At 7h. 00m. a.m., l.m.t., I set off 35° 05' N. on the lat. arc; 17° 18 1/2' N. on the decl. arc; and determine a meridian with the solar at the cor. No. 1 of tract 38, which is also cor. No 5 of tract 47 Tp. 20 N. Rg. 1W., which has been previously described.

Thence I run
West

40.05 Old 1/4 sec. cor. which I destroy and in the same place set a malpais stone 14 x 8 x 7 ins. 9 ins. in the ground for cor. No. 2, marked 2-38 on S. face.

Thence I run
N. 82° 56' W.

39.75 Old 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

Metes and Bounds Survey in Tp. 19 N. Rg. 1 W.

Chains.

- for cor. No. 3, marked 3-38 on S. E. face.
Thence I run
S. 2° 30' W.
- 41.21 Old 1/4 sec. cor. which I destroy and in the same place set a malpais stone 16 x 12 x 6 ins. 11 ins. in the ground for cor. No. 4, marked 4-48 on E. face.
Thence I run
S. 0° 55' E.
- 40.21 Old sec. cor. which I destroy and in the same place set a malpais stone 18 x 10 x 10 ins. 12 ins. in the ground for cor. No. 5, marked 5-38 on N. E. face.
May 9: At this cor. I set off 17° 21' N. on the decl. arc; and observe the sun on the meridian at noon: the resulting lat. is 35° 04' N.
Thence I run
S. 85° 51' E.
- 40.63 Old 1/4 sec. cor. which I destroy and in the same place set a malpais stone 16 x 8 x 6 ins. 11 ins. in the ground for cor. No. 6, marked 6-38 on N. face.
Thence I run
S. 89° 09' E.
- 41.70 Old 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. 7 of tract No. 38 and cor. No. 3 of tract No. 40, marked 7-38 on N. W. and 3-40 on S. E. faces.
Thence I run
N. 1° 49' W.
- 39.82 Old 1/4 sec. cor. which I destroy and in the same place mark a cross (x) on a malpais stone in place 3 x 2 x 2 ft. above ground for cor. No. 8, marked 8-38 W. of cross.
Thence I run
N. 0° 39' W.
- 40.16 Cor. No. 1, place of beginning. Area 650.53 Acres.

May 9, 1909.

Tract 39-Lieu Selection, 11938, Nov. 1, 1904; Santa Fe Pacific R.R.Co. originally described as SE 1/4 NE 1/4 Sec. 8. T19N. R1W.

- May 10: At 7h. 00m., a.m., l.m.t., I set off 35° 04' N. on the lat. arc: 17° 34 1/2' N. on the decl. arc: and determine a meridian with the solar at the N. E. cor. of tract 39, which is N. 1° 49' W. 2028 chs. from the old 1/4 sec. cor. bet. secs. 8 and 9. At this point I set a malpais stone 16 x 10 x 4 ins. 11 ins. in the ground for cor. No. 1, marked 1-39 on S. W. face.
Thence I run
N. 88° 09' W.
- 21.14 Cor. No. 2, set a malpais stone 16 x 12 x 4 ins. 11 ins. in the ground for cor. No. 2, marked 2-39 on S. E. face.
Thence I run
S. 0° 59' E.
- 19.90 Cor. No. 3, set a malpais stone 16 x 10 x 10 ins. 11 ins. in the ground for cor. No. 3, marked 3-39 on N. E. face.
Thence I run
S. 87° 08' E.
- 21.44 Old 1/4 sec. cor. which I destroy and in the same place set a malpais stone 16 x 8 x 6 ins. 11 ins. in the ground for cor. No. 4 of tract No. 39 and cor. No. 4 of tract No. 40, marked 4-40 on E. and 4-39 on NW. faces.
Thence I run
N. 1° 49' W.
- 20.28 Cor. No. 1 place of beginning.

Area 42.77 Acres.

Tract 40-Selected; List 16, June 30, 1896; A. & P. R. R. Co. originally described as Sec. 9, T19N. R1W.

I commence at cor. No. 1, identical with cor. No. 5 of tract No. 37, previously described.

Metes and Bounds Survey in Tp. 19 N. Rg. 1 W.

Chains	
	Thence I run N. 89° 20' W.
40.29	Old $\frac{1}{4}$ sec. cor. which I destroy and in the same place set a malpais stone 16 x 10 x 6 ins. 11 ins. in the ground for cor. No. 2, marked 2-40 on S. face.
	Thence I run S. 89° 24' W.
39.86	Cor. No. 3, also cor. No. 7 of tract No. 38, which has been previously described.
	Thence I run S. 1° 49' E.
20.28	Cor. No. 1 of tract No. 39.
40.56	Cor. No. 4, also cor. No. 4 of tract No. 39 which has been previously described.
	Thence I run S. 1° 22' W.
39.37	Old sec. cor. which I destroy and in the same place set a malpais 18 x 6 x 6 ins. 12 ins. in the ground for cor. No. 5, marked 5-40 on N. E. face. May 10: At this cor. I set off 17° 37' N. on the decl. arc: and observe the sun on the meridian at noon: the resulting lat. is 35° 03' N.
	Thence I run S. 89° 35' E.
40.65	Old $\frac{1}{4}$ sec. cor. which I destroy and in the same place set a malpais 16 x 8 x 6 ins. 11 ins. in the ground for cor. No. 6, marked 6-40 on N. face.
	Thence I run S. 89° 46' E.
39.68	Old sec. cor. which I destroy and in the same place set ^{Stone} 16 x 7 x 6 ins. 11 ins. in the ground for cor. No. 7, marked 7-40 on N. W. face.
	Thence I run N. 1° 15' W.
40.37	Old $\frac{1}{4}$ sec. cor. which I destroy and in the same place set a malpais 16 x 8 x 6 ins. 11 ins. in the ground for cor. No. 8, marked 8-40 on W. face.
	Thence I run N. 0° 28' W.
39.94	Cor. No. 1, place of beginning. Area 645.88 Acres. May 10, 1909

Tract 41-Selected; List 16, June 30, 1896; A. & P. R. R. Co. originally described as N $\frac{1}{2}$ Sec 11, T19N. R1W.

May 11: At 7h. 00m., a.m., l.m.t., I set off 35° 04' N. on the lat. arc: 17° 50' N on the decl. arc: and determine a meridian with the solar at the old cor. of sec. 1, 2, 11, and 12, which I destroy and in the same place set a malpais 18 x 8 x 6 ins. 12 ins. in the ground for cor. No. 1 of tract No. 41, marked 1-41 on S. W. face.

	Thence I run S. 88° 44' W.
38.71	Old $\frac{1}{4}$ sec. cor. which I destroy and in the same place mark a cross (x) on a malpais stone in place 3 x 2 x 2 ft. above ground, for cor. No. 2, marked 2-41 S. of cross
	Thence I run N. 89° 20' W.
41.56	Cor. No. 3, also cor. No. 7 of tract No. 37, which has been previously described.
	Thence I run S. 0° 24' E.
40.20	Old $\frac{1}{4}$ sec. cor. which I destroy and in the same place set a malpais 20 x 8 x 6 ins. 15 ins. in the ground for cor. No. 4, marked 4-41 on N. E. face.
	Thence I run N. 89° 39' E.
80.02	Old $\frac{1}{4}$ sec. cor. which I destroy and in the same place set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for cor. No. 5, marked 5-41 on N. W. face. May 11: At this cor. I set off 17° 52' N. on the decl.

44

Metes and Bounds Survey in Tp. 19 N. Rg. 1 W.

Chains.

arc; and observe the sun on the meridian at noon; the resulting lat. is 35° 03 1/2' N.

Thence I run
N. 0° 01' W.

40.15 Cor. No. 1, place of beginning.

May 11, 1909.

Area, T19N.R1W.	139.68	Acres
" T19N.R1E.	179.51	"
" Total	319.19	"

Subdivision of Tp. 19 N., Rg. 1 W.

chains.

Survey commenced June 15, 1909 and executed with a Young and sons light mountain transit No. 7532, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct and was approved by the Surveyor General for Arizona.

I examine the adjustments of the instrument 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. 5, 6, 31 and 32, on the S. Rdy. of Tp. 19 N. R1W1, previously established by me; lat. $35^{\circ} 00' 00''$ N., longitude $112^{\circ} 23' 40''$ W.; I set off $35^{\circ} 00'$ N. on the lat. arc; $23^{\circ} 22' N.$ 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 15th, 1909.

June 16; At 1h. 55m., 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. 45m., 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 15, on which the meridian coincides with the meridian determined by the solar.

At 6h. 00m., a.m., l.m.t., I set off $34^{\circ} 59, 1/2'$ N. on the lat. arc; $23^{\circ} 23' N.$ 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 of the true meridian at 6h. 10m., a.m., is $N 14^{\circ} 56' W.$; the angle thus determined gives the mag. decl. as $14^{\circ} 56' E.$

I commence at the cor. of secs. 5, 6, 31 and 32 on the S. Rdy. of Tp. 19N. R1 W.

Thence I run North on sectional guide meridian, bet. secs. 31 and 32. Descend steep slope over loose rocks thru dense timber and underbrush.

- 4.40 Wash, 100 lks. wide, course E. Asc. steep slope over loose rocks.
- 13.00 Top of ridge, bears E. and W. Desc. steep slope over loose rocks.
- 16.35 Wash, 25 lks. wide, course E. Asc. steep slope over loose rocks.
- 30.00 Over nearly level land over loose malpais rocks.
- 40.00 Set a malpais stone, 16X8X6 ins., 1 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 $74^{\circ} 30' W.$ 125 lks., dist., marked 09 $\frac{1}{4}$ S 31 BT.
 - A cedar 30 ins. in diam., bears S $82^{\circ} 30' E.$ 97 lks., dist., marked: 09 $\frac{1}{4}$ S 32 BT.

Subdivision of Tp. 19 N., Rg. 1 W.

chains	
41.50	Drain, course E.
80.00	Set a malpais stone, 16x10x10 ins., 11 ins. in the ground, for cor. of secs. 29, 30, 31 and 32. marked 09 on NE. face; with 1 notch on S. and 5 notches on E. edge; from which A cedar 20 ins. in diam., bears N 45° 30' E. 40 lks., dist., marked 09 T 19 N R 1 W S 29 RT. A cedar 18 ins. in diam., bears S 29° E. 185 lks., dist., marked; 09 T 19 N R 1 W S 32 RT. A cedar 6 ins. in diam., bears S 74° 15' W. 92 lks., dist., marked 09 T 19 N R 1 W S 31 RT. A cedar 6 ins. in diam., bears N 24° 30' W. 97 lks., dist., marked; 09 T 19 N R 1 W S 30 RT.
	Land, mountainous and rocky. Soil, rocky: 4th rate. timber, cedar. Underbrush, cedar and scrub oak. Mountainous land covered with loose rocks and dense timber and underbrush (or land covered with loose rocks and dense timber and underbrush), exceptionally difficult to survey, 80.00 chs.
	North on Sectional Guide meridian bet. secs. 29 and 30. Descend steep slope over loose rocks thru dense timber and underbrush
7.00	Wash, 35 lks. wide, course E. Asc. steep slope over loose rocks.
18.00	Top of ridge, bears E. and W. Desc. over loose rocks .
23.00	Wash, 25 lks. wide, course E. Asc. over loose rocks.
35.50	Top of wall of Hells Canyon, bears NW. and SE. Desc. steep precipitous slope in to canyon, over loose rocks
40.00	Point for 1/4 sec. cor., falls on a sandstone, 21x8x6 ins., above ground, mark a cross (X) at the point for 1/4 sec. cor., and mark 09 1/4 W. of cross, and raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. No trees available.
41.00	Wash, 100 lks. wide, course SE. Asc. steep precipitous SW. slope out of canyon.
62.40	Top of canyon wall. over mesa covered with loose malpais rocks.
80.00	Set a malpais stone, 16x9x6 ins., 11 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked 09 on NE. face; with 2 notches on S. and 5 notches on E. edge. from which; - A cedar 4 ins. in diam., bears N 52° E. 192 lks., dist., marked 09 T 19 N R 1 W S 20 RT. A cedar 12 ins. in diam., bears S 48° E. 78 lks., dist., marked; 09 T 19 N R 1 W S 29 RT. A cedar 4 ins. in diam., bears S 72° W. 60 lks., dist., marked; 09 T 19 N R 1 W S 30 RT. A cedar 8 ins. in diam., bears N 19° W 61 lks., dist., marked; 09 T 19 N R 1 W S 19 RT.
	Land, mountainous. Soil, rocky: 4th rate. Timber, cedar. Underbrush, cedar scrub oak and buck brush. Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey 80.00 chs.
	North on sectional guide meridian bet. secs. 19 and 20. Over level land over loose volcanic rocks thru dense timber and underbrush.
18.60	Old road, bears E. and W.
22.55	Road, bears NE. and SW.
27.00	Same road, bears NW. and SE.
28.85	Telegraph line, bears NW. and SE.
29.70	Railroad, bears N 48° 13' W. and S 48° 13' E.
30.45	Telegraph line, bears NW. and SE.
37.60	Road, bears NE. and SW.

Subdivision of Tp. 19 N., Rg. 1 W.,

cahins.	
40.00	Set a malpais stone, 14X10X8 ins., 9 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 57°30'E. 30 lks., dist., marked; 09 $\frac{1}{4}$ S 20 BT. A cedar 12 ins. in diam., bears N 71°30'W. 132 lks., dist., marked; 09 $\frac{1}{4}$ S 19 BT.
70.00	Old brush corral
70.30	Drain, course SE.
80.00	Set a malpais stone, 23X8X6 ins., 17 ins. in the ground, for cor. of secs. 17, 18, 19 and 20; marked: 09 on NE., with 5 notches on E., and 3 notches on S. edge; from which:- A cedar 4 ins. in diam., bears N 65°E. 65 lks., dist., marked; 09 T 19 N R 1 W S 17 BT. A cedar 5 ins. in diam., bears S 65°E. 28 lks., dist., marked; 09 T 19 N R 1 W S 20 BT. A cedar 5 ins. in diam., bears S 49°W. 52 lks., dist., marked; 09 T 19 N R 1 W S 19 BT. A cedar 4 ins. in diam., bears N 53°45'W. 27 lks., dist., marked; 09 T 19 N R 1 W S 18 BT.
	Land, level. Soil, rocky; 4th rate. Timber, dense cedar. Underbrush, cedar. Land covered with loose volcanic rocks and dense timber and underbrush, exceptionally difficult to survey, 80.00 chs. June 16; At this cor. I set off 23°21, 1/2' N. on the decl. arc and observe the sun on the meridian at noon the resulting lat. is 35°02, 1/2' N.
	North on Sectional Guide meridian bet. secs. 17 and 18. Over level land covered with loose volcanic rocks and dense timber and underbrush.
18.55	Old road, bears NW. and SE.
20.00	Leave dense timber, thru dense underbrush.
40.00	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.
80.00	Set a malpais stone, 18X8X6 ins., 12 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. edge. from which:- A cedar 6 ins. in diam., bears S 57°W. 149 lks., dist. marked; 09 T 19 N R 1 W S 18 BT. A cedar 6 ins. in diam., bears N 13°30'W. 141 lks., dist., marked; 09 T 19 N R 1 W S 7 BT. No other trees available. Raise a mound of stones, 2 ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Land, level. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar. Land covered with loose volcanic rocks and dense timber and underbrush, exceptionally difficult to survey 80.00 chs.
	North on Sectional Guide meridian bet. secs. 7 and 8. Descending over loose volcanic rocks thru scattering timber and dense underbrush.
9.00	Road, bears NW. and SE.
14.00	Wash, 40 lks. wide, course SE. Along wash.
22.00	Leave wash. Over nearly level land over loose volcanic rocks.
40.00	Set a malpais stone, 16X10X6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked; 09 $\frac{1}{4}$ on W. face; from which:- A cedar 8 ins. in diam., bears S 88°E. 113 lks., dist., marked; 09 $\frac{1}{4}$ S 8 BT. A cedar 7 ins. in diam., bears N 68°45'W. 133 lks., dist., marked; 09 $\frac{1}{4}$ S 7 BT.

Subdivision of T_p 19 N., R_g 1 W.

chains.	
55.75	Enter and along wash, 35 lks. wide, course SW.
63.00	Along road, bears N. and SW.
65.20	Leave road, bears S. and NW.
68.75	Leave wash, course S. Over loose volcanic rocks.
69.34	Intersect the S. bdy. of Tract No 38, 7.40 chs. S85°51'E. of cor. No. 5., Set a malpais stone, 14X12X8 ins., 2 ins. in the ground for closing cor. bet. secs. 7 and 8. marked 09 CC on S., and PC on N. face; with 5 grooves on E. face; from which A cedar 8 ins. in diam., bears S 8°45'E. 121 lks., dist. marked; 09 CC T 19 N R 1 W S 8 BT. A cedar 6 ins. in diam., bears S 23°30'W. 71 lks., dist. marked; 09 CC T 19 N R 1 W S 7 BT.
	Thence on blank line across private claim.
80.00	Point for cor. of secs. 5, 6, 7, and 8 falls in private claim Land, level. Soil, rocky; 4th rate. Timber, cedar. underbrush, cedar. Land covered with loose volcanic rocks and scattering timber and dense underbrush, exceptionally difficult to survey, 80.00 chs.
	North on Sectional Guide meridian bet. secs. 5 and 6. Ascending over loose volcanic rocks thru dense timber and underbrush. On blank line across private claim.
70.47	Intersect the N. bdy. of Tract No. 38, 6.29 chs. S82°56'E. of Cor. No. 3., Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for closing cor., marked 09 CC on N., PC on S., with 5 grooves on E. face; from which;- A cedar 4 ins. in diam., bears N 27°E. 76 lks., dist. marked; 09 CC T 19 N R 1 W S 5 BT. A cedar 4 ins. in diam., bears N 57°W. 40 lks., dist. marked; 09 CC T 19 N R 1 W S 6 BT.
79.86	Intersect the S. bdy. of T _p . 20 N., 64 lks., W. of the cor. of secs. 31 and 32., set a malpais stone, 16X10X6 ins., 11 ins. in the ground, for closing cor. bet. secs. 5 and 6., marked: 09 CC on S., with 5 grooves on E., and 1 groove on W. face; from which;- A cedar 6 ins. in diam., bears S 44°30'E. 106 lks., dist. marked; 09 CC T 19 N R 1 W S 5 BT. A cedar 6 ins. in diam., bears S 51°30'W. 118 lks., dist. marked; 09 CC T 19 N R 1 W S 6 BT.
	Land, nearly level. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar. Land covered with loose volcanic rocks and dense timber and underbrush, exceptionally difficult to survey, 79.86 chs.,
	June 16, 1909.
	June 17: At 6h.00m., a.m., l.m.t., I set off 35° 01'N. on the lat. arc; 23°25'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32. Thence I run West on random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.,
80.16	Intersect the W. bdy. of the T _p . 21 lks., N. of the cor. of secs. 25, 30, 31 and 36; Thence I run N 89°51'E. on true line bet. secs. 30 and 31.
	Desc. over loose rocks thru dense timber and underbrush
22.15	Wash, 30 lks. wide, course NE.
24.30	Same wash, 30 lks. wide, course SE.
37.60	Same wash, 30 lks. wide, course NE. Asc. steep slope over loose rocks.

Subdivision of Tp. 19 N. Rg. 1 W.

chains	
38.45	Top of spur, bears S. Desc. steep slope over loose rocks.
39.10	Drain, course NW. Over nearly level land over loose volcanic rocks.
40.16	Set a limestone, 20x12x8 ins., 15 ins. in the round, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N. face; from which:- A cedar 6 ins. in diam., bears N 35° E' 40 lks., dist., marked; 09 $\frac{1}{4}$ S 30 BT. A cedar 14 ins. in diam., bears S 30° E. 100 lks., dist., marked; 09 $\frac{1}{4}$ S 31 BT.
53.85	Road, bears N. and S.
57.00	Desc. steep slope over loose rocks.
63.30	Wash, 25 lks. wide, course SE. Asc. steep slope over loose rocks.
65.20	Top of spur, bears N. Desc. steep slope over loose rocks.
66.00	Same wash, 25 lks. wide, course NE. Asc. steep slope over loose rocks.
68.40	Top of spur, bears S. Desc. steep slope over loose rocks.
72.55	Same wash, 25 lks. wide, course SE. Asc. steep slope over loose rocks.
73.80	Top of spur, bears N. Desc. steep slope over loose rocks.
76.05	Same wash, 30 lks. wide, course NE. Asc. steep slope over loose rocks.
80.16	The cor. of secs. 29, 30, 31 and 32. Land, mountainous and level. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar, oak brush and wild currant Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 80.16 chs. From the cor. of secs. 4, 5, 32 & 33 on the S. bay. N 0° 01' E. bet. secs. 32 and 33. Ascending over loose rocks thru scattering timber and underbrush.
11.23	Telegraph line, bears NE. and SW.
12.16	Railroad track, bears NE. and SW. Tie bunk house, bears S 69° 10' W. Runk house, bears N 86° W. Section house bears N 37° 35' E. Chimney on Cedar Glade station bears N 47° 35' E. House, bears N 67° 10' E.
12.93	Wire fence, bears NW. and SE.
13.00	Telegraph line, bears NE. and SW.
13.49	S. side of section foreman's house on line.
14.06	N. side of house.
14.76	Wire fence, bears E. and W.
16.00	Tie bunk house, bears S 34° 50' W. Runk house, bears S 18° 10' W. Section house, bears N 70° 30' E. Chimney on station bears S 52° 35' E. House, bears S 57° 45' E.
20.88	Road, bears NW. and SE.
36.00	Drain, course SE. Asc. over loose rocks.
40.00	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; from which:- A cedar 32 ins. in diam. bears N 54° 15' E. 244 lks., dist., marked; 09 $\frac{1}{4}$ S 33 BT. A cedar 6 ins. in diam., bears S 79° 45' W. 238 lks., dist., marked; - 09 $\frac{1}{4}$ S 32 BT.
53.10	Telegraph line, bears NW. and SE.
55.59	Railroad, bears N 12° 50' W. and S 12° 50' E.
58.28	Telegraph line, bears NW. and SE. thru dense timber and underbrush.
80.00	Set a malpais stone, 18x8x6 ins., 12 ins. 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. edge; from which:- A cedar 9 ins. in diam., bears N 16° E. 06 lks., dist., marked; 09 T 19 N R 1 W S 28 BT.

Subdivision of Td. 19 N., Rg. 1 W.

chains.

A cedar 10ins.in diam.,bears S 61°E. 62 lks.,
 dist.,marked: 09 T 19 N R 1 W S 33 BT.
 A cedar 10ins.in diam.,bears S 47°15'W. 39 lks.,
 dist.,marked: 09 T 19 N R 1 W S 32 BT.
 A cedar 9ins.in diam.,bears N 60°45'W. 35 lks.,
 dist.,marked: 09 T 19 N R 1 W S 29 BT.

Land,level.
 Soil,rocky; 4th rate.
 Timber,cedar.
 Underbrush,cedar.
 Land covered with loose rocks exceptionally difficult
 to walk over ,and dense timber and underbrush exceptio
 nally difficult to survey,80.00 chs.

40.00 West on random line bet.secs. 29 and 32.
 80.02 Set temp. 1/4 sec.cor.
 Intersect the N.and S. line 4 lks.S. of the cor. of
 secs. 29,30,31 and 32.
 Thence I run
 S 99°58'E. on true line bet.secs. 29 and 32.
 Descending steep slope over loose rocks thru dense tim-
 ber and underbrush.
 1.10 Top of wall of Hell's Canyon,Desc.steep preceptitious slope
 3.00 Hells Canyon wash,75 lks.wide,course SE. Asc.steep slop
 over loose rocks.
 12.50 Wall of Hells canyon,bears SE. Asc.over loose rockks.
 30.00 Leave dense timber and underbrush. Over loose rocks and
 boulders exceptionally difficult to walk over.
 40.01 Set a malpais stone,16X8X8ins.,11ins.in the ground,for
 1/4 sec.cor.,marked 09 1/4 on N. face; and raise a mound
 of stones,2ft.base,1,1/2 ft.high.N. of cor.
 pits impracticable.
 50.00 Thru dense timber and underbrush,over loose rocks,
 73.70 Telegraph line,bears NW.and SE.
 73.95 Road,bears NW.and SE.
 74.45 Railroad,bears NW.and SE.
 75.00 Telegraph line,bears NW.and SE.
 80.02 The cor.of secs.28,29,32 and 33.
 Land,mountainous and level.
 Soil,rocky; 4th rate.
 Timber,cedar.
 Underbrush,cedar,oak brush and wild currant
 Mountainous land covered with loose rocks and dense tim
 ber and underbrush, or land covered with loose rocks
 and boulders exceptionally difficult to walk over,
 exceptionally difficult to survey,80.02 chs.
 June 17; At this cor. I set off 23°23,1/2'N. on the
 decl.arc and observe the sun on the meridian at noon:
 the resulting lat.is 35° 01' N.

40.00 S 89°51'W. on random line bet.secs.19 and 30.
 80.35 Set temp. 1/4 sec.cor.
 Intersect the W. hdy.of the Tp. 20 lks.N. of the cor.
 of secs. 24,25,19 and 30.
 Thence I run
 N 99°42'E. on true line bet.secs.19 and 30.
 Descend over loose rocks thru dense timber and under-
 brush.
 19.00 Wash,.5 lks.wide,course S. Asc.over loose rocks.
 22.40 Top of ridge,bears N.and S. Desc.over loose rocks.
 36.15 Desc.steep slope over loose rocks into Hells Canyon.
 39.20 Set a malpais stone,18X10X6ins.,12ins.in the ground,f
 for witness cor. to 1/4 sec.cor.,marked 09 WC 1/4 on N.,
 face; from which:-
 A cedar 14ins.in diam.,bears N 16°45'W. 37 lks.
 dist.,marked: 09 WC 1/4 S 19 BT.
 A cedar 10ins.in diam.,bears S 66°W. 44 lks.
 dist.,marked: 09 WC 1/4 S 30 BT.
 40.35 Point for 1/4 sec.cor falls on land subject to overflow.

Subdivision of Td. 19 N., Rg. 1 W.

chains.	
41.65	Hells canyon wash, 100 lks. wide, course SW. Asc. steep slo over loose rocks.
51.35	Ascent becomes less steep.
57.50	Old stage road, Ash Fork to Prescott, bears N. and S.
62.50	Top of ridge, bears N. and S. Desc. over loose rocks.
67.00	Drain, course S. Asc. over loose rocks.
71.00	Old brush corral, bears S. 50 lks.
80.35	The cor. of secs. 19, 20, 29 and 30. 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, 80.35 chs.

	N 0° 01' E. bet. secs. 28 and 29 Over level land covered with loose volcanic rocks thru dense timber and underbrush.
10.00	Thru scattering timber and underbrush over loose malpais rocks and boulders exceptionally difficult to walk over.
40.00	Set a malpais stone, 18X10X6 ins., 12 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 71° 25' E. 216 lks., dist., marked; 09 $\frac{1}{4}$ S 28 BT. No other tree available. 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.
60.00	Leave timber.
80.00	Set a malpais stone, 18X10X10 ins., 12 ins. in the ground, for cor. of secs. 20, 21, 28 and 29; marked 09 on NE., with 2 notches on S., and 4 notches on E. edge; dig pits 18X18X12 ins., in each secs., 5, 1/2 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar. Land covered with loose volcanic rocks and boulders exceptionally difficult to walk over, and Land covered with loose rocks and dense timbers and underbrush, exceptionally difficult to survey, 80.00 chs.

	N 89° 58' W. on random line bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect the N. and S. line 5 lks. N. of the cor. of secs. 19, 20, 29 and 30. Thence I run East on true line bet. secs. 20 and 29. Descending over loose rocks thru dense timber and underbrush.
10.00	Over level land covered with loose rocks.
30.80	Telegraph line bears NW. and SE.
31.20	Road, bears NW. and SE.
31.50	Railroad, bears NW. and SE.
32.20	Telegraph line, bears NW. and SE.
39.99	Set a malpais stone, 18X12X10 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor marked 09 $\frac{1}{4}$ on N. face; from which; - A cedar 16 ins., in diam., bears S 60° W. 243 lks., dist., marked 09 $\frac{1}{4}$ S 29 BT. A cedar 10 ins. in diam., bears N 81° 15' W. 192 lks. dist., marked; 09 $\frac{1}{4}$ S 20 BT.
43.00	Leave timber and underbrush; Desc. over loose rocks and boulders exceptionally difficult to walk over.
79.98	The cor. of secs. 20, 21, 28 and 29. Land, mountainous and level. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar.

Subdivision of Tp. 19 N., Rg. 1 W.

chains.

Mountainous land covered with loose rocks and boulders exceptionally difficult to walk over and land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 79.98 chs.
June 17, 1909.

June 18; At 6h.00m., a.m., l.m.t., I set off $35^{\circ}02, 1/2' N.$ on the lat. arc; $23^{\circ}26, 1/2' N.$ on the decl. arc and determine a meridian with the solar at the cor. of secs 17, 18, 19 and 20.

Thence I run west bet. secs. 18 and 19, Over level land covered with loose rocks thru dense timber and underbrush.

13.40 Telegraph line, bears N. and S.
14.00 Railroad, bears $N 0^{\circ}04' W.$ and $S 0^{\circ}04' E.$
14.75 Telegraph line, bears N. and S.
27.00 Begin gradual descent into Hells canyon over loose rocks
40.00 Set a malpais stone, 16X10X6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $09 \frac{1}{4}$ on N. face; from which.

A cedar 14 ins. in diam., bears $S 10^{\circ}30' E.$ 46 lks., dist., marked $09 \frac{1}{4} S 19 BT.$

A cedar 6 ins. in diam., bears $N 47^{\circ}30' W.$ 51 lks., dist., marked; $09 \frac{1}{4} S 18 BT.$

52.50 Desc. 110 ft. bluff into Hells canyon.
52.60 Foot of bluff and desc over huge malpais rocks and boulders
60.00 Wash, 110 lks. wide, course SW. Asc. steep slope over loose rocks.

79.85 Intersect the W. bdy. of the Tp. 54 lks. $N 0^{\circ}7' W.$ of the cor. of secs. 13 and 24. Set a malpais stone, 14X10X6 ins., 9 ins. in the ground, for closing cor. bet. secs. 18 and 19., marked $09 CC$ on E. face; with 3 grooves on N. and S. face from which:-

A cedar 5 ins. in diam., bears $N 56^{\circ} E.$ 27 lks., dist. marked $09 CC T 19 N R 1 W S 18 BT.$

A cedar 4 ins. in diam., bears $S 53^{\circ} E.$ 53 lks., dist., marked; $09 CC T 19 N R 1 W S 19 BT.$

Land, level and mountainous.
Soil, rocky: 4th rate.
Timber, cedar.
Underbrush, cedar and scrub oak.
Land covered with loose rocks and dense timber and underbrush exceptionally difficult to survey, 79.85 chs.

$N 0^{\circ} 01' E.$ bet. secs 20 and 21.
Over nearly level land covered with loose volcanic rock exceptionally difficult to walk over.

35.00 Wagon tire wash, 100 lks. wide, course SE.
40.00 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; 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.

63.55 Wash, 50 lks. wide, course SW.
80.00 Set a malpais stone, 18X10X6 ins., 12 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked 09 on NE., with 3 notches on S., and 4 notches on E. edge. and raise a mound of stones 2 ft. base, $1, 1/2$ ft. high, W. of cor. Pits impracticable.

Land, level.
Soil, rocky:
No timber and underbrush.
Land covered with loose rocks exceptionally difficult to walk over, exceptionally difficult to survey, 80.00 chs.

40.00 West on random line bet. secs. 17 and 20.
79.98 Set temp. $\frac{1}{4}$ sec. cor.
Intersect the N. and S. line 10 lks. S. of the cor. of secs 17, 18, 19 and 20.

Subdivision of Tp.19 N., Rg.1 W.

chains.

Thence I run
 S 89°56'E. on true line bet.secs. 17 and 20.
 Over level land covered with loose rocks and dense
 underbrush and timber.

12.40 Old road,bears N.and S.
 23.00 Leave dense timber and underbrush,over loose rocks.
 39.99 Set a malpais stone,18X10X12ins.,12ins.in the ground,
 for $\frac{1}{4}$ sec.cor.marked: 09 $\frac{1}{4}$ on N.face; from which:-
 A cedar 6ins.in diam.,bears N 77°30'E. 83 lks.,
 dist.,marked: 09 $\frac{1}{4}$ S 17 BT.
 No other tree available. Raise a mound of stones,2ft.
 base,1,1/2 ft.high,N. of cor. Pits impracticable.

76.10 Wash,20 lks.wide,course S. Asc.over loose rocks.
 79.98 The cor. of secs. 16,17 20 and 21.
 Land,level.
 Soil,rocky: 4th rate.
 Timber,cedar.
 Underbrush,cedar.
 Land covered with loose rocks 56.98 chs.
 Land covered with loose rocks and dense timber and
 underbrush,exceptionally difficult to survey,23.00 chs.
 June 18; At this cor. I set off 23°25'N. on the decl.
 arc and observe the sun on the meridian at noon the
 resulting lat.is 35°02,1/2'N.

West bet.secs.7 and 18.
 Over level land covered with loose rocks thru dense
 timber and underbrush.

27.45 Road,bears NW.and SE.
 28.90 Telegraph line,bears NW. and SE.
 29.50 Railroad,bears NW. and SE.
 30.03 Telegraph line,bears NW. and SE.
 40.00 Set a malpais stone,16X8X6ins.,11ins.in the ground,for
 $\frac{1}{4}$ sec.cor.marked: 09 $\frac{1}{4}$ on N. face; from which:-
 A cedar 6ins.in diam.,bears S 24°W. 138 lks.,
 dist.,marked: 09 $\frac{1}{4}$ S 18 BT.
 A cedar 4ins.in diam.,bears N 52°W. 58 lks.,
 dist.,marked: 09 $\frac{1}{4}$ S 7 BT.

60.00 Begin gradual descent into Hells canyon,over loose rock
 70.00 Desc.steep slope over lose rocks into Hells canyon.
 74.50 Malpais bluff 30ft.high.
 78.00 Drain,course S.
 79.70 Intersect the W. bdy. of the Tp.75 lks.N. of the cor.
 of secs. 13 and 12. Set a malpais stone,14X10X6ins.,9ins
 in the ground,for closing cor.bet.secs. 7 and 18.,marke
 09 CC on E. face; with 4 grooves on S.,and 2 grooves on
 N. face; and raise a mound of stones,2ft.base,1,1/2 ft.
 high,E. of cor. Pits impracticable.
 Land,level and mountainous.
 Soil,rocky: 3th rate.
 Timber,cedar.
 Underbrush,cedar and scrub oak.
 Mountainous land or land covered with loose rocks and
 dense timber and underbrush,exceptionally difficult to
 survey,79.70 chs.

N 0°01'E. bet.secs.16 and 17.
 Over nearly level land covered with loose rocks excepti
 nally difficult to walk over.

19.00 Drain,course SW. Asc.over loose rocks exceptionally
 difficult to walk over.
 40.00 Set a malpais stone,20X8X6ins.,15ins.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 imprat-
 icable.
 45.00 Ascent becomes steep over loose rocks.
 66.39 Intersect the S. bdy.of Tract No.40. 4.85 chs.,S89°35'E.
 of cor.

Subdivision of TP.19 N., Rg.1 W.

chains.	
	No.5. This point falls on a malpais rock in place, 24X10X8ins., above ground. Cut a cross (X) at the exact point for closing cor., mark 09 CC on S. and PC on N. side of cross with 4 grooves on E. face of cross and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, S. of cor. Pits impracticable. Thence on blank line across private claim.
80.00	Point for cor. of secs. 8, 9, 16 and 17 falls in private claim. Land, level and mountainous. Soil, rocky, 4th rate, No timber. Land covered with loose rocks exceptionally difficult to walk over, or mountainous land covered with loose rocks exceptionally difficult to survey, 80.00 chs.

40.00	N 89° 56' W. on random line bet. secs. 8 and 17. Set temp. 1/4 sec. cor.
80.08	Intersect the N. and S. line 5 lks. S. of the cor. of secs 7, 8, 17 and 18. Thence I run S 89° 54' E. on true line bet. secs. 8 and 17. Descending thru scattering timber and dense underbrush over loose rocks.
11.65	Road, bears N. and S.
12.55	Wash, 40 lks. wide, course SE. Asc. over loose rocks.
40.04	Set a malpais stone, 16X10X6ins., 11ins. in the ground, for 1/4 sec. cor., marked: 09 1/4 on N. face from which:- A cedar 7ins. in diam., bears S 61° 30' E. 78 lks., dist., marked: 09 1/4 S 17 BT. A cedar 8ins. in diam., bears N 31° 30' W. 129 lks., dist., marked: 09 1/4 S 8 BT.
60.00	Drain, course S.
75.55	Intersect the W. Bdy. of Tract No. 40., 13.58 chs N 1° 22' E. of cor. No. 5., Set a malpais stone, 16X8X8ins., 11ins. in the ground, for closing cor. marked 09 CC on W., and PC on E. face with 4 grooves on S. and raise a mound of stone, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.
80.08	The point for cor. of secs. 8, 9, 16 and 17. Land, nearly level. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar, buck brush and scrub oak. Land covered with loose rocks and scattering timber and dense underbrush, exceptionally difficult to survey, 80.08 chs. June 18, 1909.

	June 19; At 6h. 00m., a.m., l.m.t., I set off 35° 04' N. on the lat. arc; 23° 28' N. on the decl. arc and determine a meridian with the solar at the cor. pt. of secs. 5, 6, 7 and 8, Thence I run West on random line bet. secs. 6 and 7.
40.00	Set temp. 1/4 sec. cor.
79.90	Intersect the W. bdy. of the Tp. 19 lks. N. of the cor. of secs. 6, 7, 1 and 12. Thence I run. N 89° 52' E. on true line bet. secs. 6 and 7. Ascending steep slope over loose rocks thru old timber cutting covered with dead limbs and brush and a growth of young cedars.
16.00	Ascent becomes less steep.
19.00	Old wood road, bears NE. and SW.
20.00	Top over level land covered with loose rocks.
26.00	Leave old cutting, thru dense timber and underbrush.
35.15	Drain, course S.
39.90	Set a malpais stone, 16X8X6ins., 12ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on N. face; from which:- A cedar 5ins. in diam., bears North 14 lks., dist., marked: 09 1/4 S 6 BT. A cedar 4ins. in diam., bears S 5° E. 23 lks.,

Subdivision of TP 19.N., Rg. 1 W.

chains.	
42.00	dist., marked; 09 $\frac{1}{4}$ S 7 BT. Thru old cutting, covered with dead limbs and dense 2nd growth cedars, over loose rocks.
52.00	Telegraph line, bears NW. and SW.
52.89	Railroad, bears NW. and SW.
53.58	Side track, bears NW. and SW.
54.08	Telegraph line, bears NW. and SW. thru dense timber and underbrush.
68.00	Road, bears N. and S.
72.34	Intersect the W. bdy. of Tract No. 38, 10.13 chs. N55°W. of cor. No. 5., set a malpais stone, 14X9X6 ins., 9 ins. in the ground, for closing cor., marked 09 CC on W., face and PC on E. face with 5 grooves on S. from which, A cedar .4 ins. in diam., bears S 43°15'W. 120 lks., dist., marked; 09 CC T 18 N R 1 W S 7 BT. A cedar .8 ins. in diam., bears N 51°45'W. 76 lks., dist., marked; 09 CC T 19 N R 1 W S 6 BT.
79.90	The point for cor. of secs. 5, 6, 7, and 8. Land, level and mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar. Land covered with dense timber and underbrush and loose rocks, exceptionally difficult to survey, 79.90 chs.
	From the cor. point of secs. 8, 9, 16 & 17 N 0°01'E. bet. secs. 8 and 9. Ascending over loose rocks thru dense underbrush. On blank line across private claim.
40.00	Point for $\frac{1}{4}$ sec. cor. falls in private claim.
66.38	Intersect the N. bdy. of Tract No. 40., 5.19 chs. N89°24'E. of the cor. No. 3., set a malpais stone, 16X12X8 ins., 11 ins. in the ground, for closing cor. bet. secs. 8 and 9; marked 09 CC on N., and PC on S. face with 4 grooves on E. face; Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.
80.00	Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked 09 on NE., with 5 notch on S., and 4 notches on E. edge; 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, cedar and buck brush. Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 80.00 chs.
	N 89°54'W. on random line bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Fall 12 lks. N. of the point for cors. of secs. 5, 6, 7 and 8. Thence I run S 89°59'E. on blank line across private claim. Descending over loose rocks thru dense timber and underbrush.
40.01	Point for $\frac{1}{4}$ sec. cor. falls in private claim.
74.40	Intersect the E. bdy. of Tract No. 38., 13.67 chs. N1°49'W. of cor. No. 7; Set a malpais stone, 16X10X6 ins., 11 ins. in the ground, for closing cor., marked 09 CC on E., and PC on W. face., with 5 grooves on S. and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, E. of cor. Pits impracticable.
80.02	The cor. of secs. 4, 5, 8 and 9. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Underbrush, cedar and buck brush. Mountainous land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 80.02 chs. June 19: At this cor. I set off 23°26', 1/2' N. on the decl. arc. and observe the sun on the meridian at noon the

Subdivision of Tp. 19 N. R. 1 W.

chains.	
	lat. is 35°04' N.
	N 0°01'E. bet. secs. 4 and 5. Ascending over loose rocks thru dense timber and underbrush.
20.00	Top of ridge, bears NE. and SW. Desc. over loose rocks.
40.00	Point for $\frac{1}{4}$ sec. cor., falls on a malpais stone, in place 2X2X3ft above ground. mark a cross (X) at exact place for $\frac{1}{4}$ sec. cor., mark 09 $\frac{1}{4}$ on W. side of cross and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor., pits impracticable.
45.00	Wash, 40 lks. wide, course SW. Asc. over loose rocks.
55.00	Top of ridge, bears E. and W. Desc. over loose rocks.
62.90	Wash, 40 lks. wide, course SE. Asc. over loose rocks.
66.43	Intersect the S. bdy. of Tract No. 47, ^{120 N. R. W.} 6.82 chs. N 88°42' E. of cor. No. 5., Set a malpais stone, 18X8X8 ins., 12 ins. in the ground, for closing cor., marked 09 CC on S., and PC on N. face; with 4 grooves on E. from which:- A cedar 6 ins. in diam., bears S 61° E 155 lks., dist., arked: 09 CC T 19 N R 1 W S 4 BT. A cedar 20 ins. in diam., bears S 65° 30' W. 124 lks., dist., marked 09 CC T 19 N R 1 W S 5 BT.
79.80	Thence on blank line across private claim. Intersect the S. bdy. of Tp. 20 N., 60 lks. W. of the point for cor. of secs. 32 and 33. Land, mountainous. Soil, rocky: 4th rate. timber, cedar. Underbrush, cedar. Mountainous land covered with loose rocks and dense timber and underbrush, exceptionally difficult to survey, 79.80 chs.

June 19, 1909.

	June 20: At 6h.00m., a.m., l.m.t., I set off 35° 00' N. on the lat. arc; 23° 29' N. on the decl. arc and determine a meridian at the cor. of secs 3, 4, 33 and 34 on the S. bdy. of the Tp. Thence I run
	N 0° 01' E. bet. secs. 33 and 34. Ascending over loose rocks thru scattering timber, Road, bears NE. and SW.
18.60	Top of ridge, bears NW. and SE. Desc. over loose rocks
39.00	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; from which:- A cedar 5 ins. in diam., bears N 29° 30' E. 218 lks., dist., marked 09 $\frac{1}{4}$ S 34 BT.
40.00	A cedar 5 ins. in diam., bears S 33° 15' W. 99 lks., dist., marked: 09 $\frac{1}{4}$ S 33 BT.
55.00	Desc. steep slope over loose rocks into wagon tire canyon.
58.00	Wash, 125 lks. wide, course SE. Asc. steep slope over loose rocks.
64.00	Ascent becomes less steep.
80.00	Set a malpais stone, 16X12X10 ins., 11 ins. 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 12 ins. in diam., bears N 50° 45' E. 149 lks., dist., marked 09 T 19 N R 1 W S 27 BT. A cedar 24 ins. in diam., bears S 76° 30' W. 283 lks., dist., marked: 09 T 19 N R 1 W S 33 BT.
	No other trees available; Dig pits, 18X18X12 ins., NW. and SE. of stone, 5, 1/2 ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high, W. of cor. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar. Mountainous land covered with loose rocks and scattering timber exceptionally difficult to survey, 80.00 chs.

Subdivision of Td. 19 N. R. 1 W.

chains.

40.00 West on random line bet. secs. 28 and 33.
Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect the N. and S. line 7 lks. S. of the cor. of
secs. 28, 29, 32 and 33.
Thence I run
S $89^{\circ}57'E.$ on true line bet. secs. 28 and 33.
Over level land covered with loose rocks thru dense
timber and underbrush.

39.98 Set a malpais stone, 25X8X6 ins., 19 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 $1^{\circ}30'W.$ 184 lks.,
dist., marked 09 $\frac{1}{4}$ S 33 BT.
A cedar 6 in. in diam., bears N $26^{\circ}30'W.$ 426 lks.,
dist., marked: 09 $\frac{1}{4}$ S 28 BT.

57.30 Wagontire canyon, wash, 40 lks. wide, course SE. Asc over
loose rocks. Road hrs. NE. and SW.

79.96 The cor. of secs. 27, 28, 33 and 34.
Land, level and mountainous.
Soil, rocky: 4t rate.
Timber, cedar.
Underbrush, cedar and scrub oak.
Land covered with loose rocks and dense timber and
underbrush, exceptionally difficult to survey, 79.96 chs.

10.00 N $0^{\circ}01'E.$ bet. secs. 27 and 28.
Descending over loose rocks.

26.45 Draw, course SE. Asc. over loose rocks.

40.00 Road, bears NE. and SW. Over level land.

80.00 Set a malpais stone, 16X8X6 ins., 12 ins. in the ground, for
 $\frac{1}{2}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins.
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.

Set a malpais stone, 20X8X8 ins., 15 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; 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, rocky: 4th rate.
No timber or underbrush.
Land covered with loose rocks, 80.00 chs.
June 20: At this cor. I set off $23^{\circ}27'N.$ on the decl.
arc and observe the sun on the meridian at noon; the
resulting lat. is $35^{\circ}01, 1/2'N.$

40.00 N $89^{\circ}57'W.$ on random line bet. secs. 21 and 28.
Set temp. $\frac{1}{4}$ sec. cor.

79.92 Intersect the N. and S. line 5 lks. S. of the cor. of
secs. 20, 21, 28 and 29.
Thence I run
S $89^{\circ}55'E.$ on true line bet. secs. 21 and 28.
Descending over loose rocks.

9.40 Wash, 35 lks. wide, course SE. Asc. over loose rocks.

39.96 Set a malpais stone, 20X8X8 ins., 15 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.

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

70.00 Draw course S. Asc. over loose rocks.

79.92 The cor. of secs. 21, 22, 27 and 28.
Land, rolling.
Soil, rocky: 4th rate
No timber or underbrush.
Land covered with loose rocks, 79.92 chs.
June 20, 1909.

June 21: At 6h.00m. a.m., l.m.t., I set off $35^{\circ}01, 1/2'N.$ on
the lat. arc; $23^{\circ}29'N.$ on the decl arc and determined a
meridian with the solar at the cor. of secs 21, 22, 27, 28.

Subdivision of Td. 19 N. R. 1 W.

chains.	Thence I run. N 0°01'E. bet. secs 21 and 22. Over level land covered with loose rocks.
40.00	Set a malpais atone, 18X8X7ins., 12ins. 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.
67.20	Road, bears NE. and SW.
80.00	Set a malpais atone, 18X8X6ins., 12ins. in the ground, for cor. of secs. 15, 16, 21 and 22., marked 09 T 19 N. on NE. face., R 1 W on SE. face. with 3 notches on S. and E. edges and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Land, level. Soil, rocky; 4th rate. No timber and underbrush. Land covered with loose rocks, 80.00 chs.
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	N 99°55'W. on random line bet. secs. 16 and 21.
40.00	Set temp $\frac{1}{4}$ sec. cor.
80.02	Intersect the N. and S. line 5 lks. N. of the cor. of secs. 16, 17, 20 and 21. Thence I run S 99°57'E. on true line bet. secs. 16 and 21. Over level land covered with loose rocks.
10.35	Wash, 40 lks. wide, course SW. Asc. over loose rocks.
40.01	Set a malpais 16X10X8ins., 11ins. in the ground, for $\frac{1}{4}$ sec cor., marked 09 $\frac{1}{4}$ on N. face; and raise a mound of stone 2ft. base, 1, 1/2 ft. hgh, N. of cor. Pits impracticable
50.00	Top of ridge, bears N. and S. Desc. over loose rocks.
63.50	Old stage road, bears NW. and SE.
65.00	Draw, course S. Asc. over loose rocks.
80.02	The cor. of secs. 15, 16, 21 and 22. Land, rolling. Soil, rocky: No timber or underbrush. Land covered with loose rocks, 80.02 chs.
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	N 0°01'E. bet. secs. 15 and 16.
40.00	Over level land covered with loose malpais rocks. Set a malpais stone, 23X15X12ins., 17ins. in the ground, fo $\frac{1}{4}$ 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.
76.20	Wash, 20 lks. wide, course SE. Along wash.
79.50	Leave wash. Asc. over loose rocks.
80.00	Set a malpais stone, 16X8X7ins., 11ins 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. edges; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Land, level. Soil, rocky; 4th rate. No timber or underbrush. Land covered with loose rocks, 80.00 chs. June 21: At this cor. I set off 23°27', 1/2' N. on the decl. arc and observe the sun on the meridian at noon the resulting lat. is 35°03' N.
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	N 89°57'W. on random line bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Wall 10 lks. N. of the point for cor. of secs. 8, 9, 16 and 17. Thence I run N 89°59'E. on blank line across private claim bet. secs. 9 and 16. Descending over loose malpais rocks.

Subdivision of Tp.19 N.,Rg.1 W.

chains

40.02
75.40

The point for $\frac{1}{4}$ sec. cor. falls in private claim.
Intersect the E. bdy. of Tract No. 40, 14.03 chs N0°15'W. of cor. No. 7; Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for closing cor., marked 09 CC on E., and PC on W. face, with 4 grooves on S. raise a mound of stones, 2ft. base, 1, 1/2 ft. high, E. of cor. Pits impracticable. Descending over loose malpais rocks.

79.75
80.04

Wash, 15 lks., wide, course S. Asc. over loose rocks.
The cor. of secs. 9, 10, 15 and 16.
Land, mountainous.
Soil, rocky: 4th rate.
Timber, cedar. No underbrush.
Mountainous land covered with loose rocks, exceptionally difficult to survey, 80.04 chs.

June 22; At 6h. 00m., a.m., l.m.t., I set off 35°03'N. on the lat. arc; 23°29'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16.

Thence I run
N 0°01'E. bet. secs. 9 and 10.
Ascending over loose rocks.

17.10
40.00

Wash, 30 lks. wide, course SW. Asc. over loose rocks.
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, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

66.20

Intersect the S. bdy. of Tract No. 37, 5.06 chs. ^{S. 89°06'E} of cor. No. 5; set a malpais stone, 14X8X8 ins., 9 ins. in the ground for closing cor., marked 09 CC on S., and PC on N. face, with 3 grooves on E. face. from which:-
A cedar 9 ins. in diam., bears S 23°E. 135 lks., dist marked: 09 CC T 19 N R 1 W S 10 FT.
A cedar 4 ins. in diam., bears S 38°W. 342 lks., dist. marked: 09 CC T 19 N R 1 W S 9 FT.

80.00

Thence on blank line across private claim.
Point for cor. of secs. 3, 4, 9 and 10 falls in a private claim.
Land, mountainous.
Soil, rocky: 4th rate.
Timber, cedar. No underbrush.
Mountainous land covered with loose rocks exceptionally difficult to survey, 80.00 chs.

S 89°59'W. on random line bet. secs. 4 and 9.

40.00
80.02

Set temp. $\frac{1}{4}$ sec. cor.
Intersect the N. and S. line 19 lks. S. of the cor. of secs. 4, 5, 8 and 9.
Thence I run
S 89°53'E. on true line bet. secs. 4 and 9.
Ascending over loose malpais rocks.

28.00
40.01

Top of ridge, bears NW. and SE. Desc. over loose rocks.
Set a malpais stone, 16X8X8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N., face; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.
Campbell's Tank bears NE. 10.00 chs. has good supply of water.

44.00

Desc. steep slope over loose rocks thru dense timber and underbrush in to canyon.

50.65

Wash, 30 lks. wide, course S. Asc. steep slope over loose rocks.

63.00
74.91

Over level land covered with loose rocks.
Intersect the W. bdy. of Tract No. 37, 13.72 chs N0°13'W. of cor. No. 5; set a malpais stone, 16X8X6 ins., 11 ins. in the ground, for closing cor., marked 09 CC on W., PC on E. with 5 grooves on S. face; and raise mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.
Thence on blank line across private claim.

80.02

The point for. cor. of secs. 3, 4, 9 and 10.

Subdivision of Tp. 19 N., Rg. 1 W.

chains.

Land, mountainous and level.
Soil, rocky; 4th rate.
Timber, cedar.
Underbrush, cedar and buck brush.
Mountainous land covered with loose rocks or land covered with dense underbrush and timber and loose rocks, exceptionally difficult to survey, 80.02 chs.
June 22: At this cor. I set off 23° 27' 1/2" N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 35° 04' N.

N 0° 01' E. bet. secs. 3 and 4, on blank line across private claim.

Ascending over loose rocks exceptionally difficult to walk over.

40.00
66.73

Point for 1/4 sec. cor. falls in private claim.
Intersect the N. bdy. of Tract No. 37, 5.60 chs N 89° 22' E. of cor. No. 3: Set a malpais stone, 14x8x6 ins., 9 ins. in the ground, for closing cor. marked 09 CC on N., PC on S., with 3 grooves on E. face; from which:-

A cedar 16 ins. in diam., bears N 79° E. 84 lks.,
dist., marked: 09 CC T 19 N R 1 W S 3 RT.

A cedar 5 ins. in diam., bears N 63° 15' W. 63 lks.,
dist., marked: 09 CC T 19 N R 1 W S 4 RT.

Ascending over loose rocks thru dense timber and underbrush.

80.00

Intersect the S. bdy. of Tp. 20 N., 61 lks., W. of the cor. of secs. 33 and 34. Point falls on a malpais stone in place, 16x14x8 ins., above ground. Cut a cross (X) at the exact point for closing cor. bet. secs. 3 and 4. mark 09 CC on S. side of cross with 3 grooves E. and W. of cross from which:-

A cedar 8 ins. in diam., bears S 47° E. 12 lks.,
dist., marked: 09 CC T 19 N R 1 W S 3 RT.

A cedar 12 ins. in diam., bears S 65° W. 20 lks.,
dist., marked: 09 CC T 19 N R 1 W S 4 RT.

Land, mountainous.
Soil, rocky; 4th rate.
Timber, cedar.
Underbrush, cedar.

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

June 22, 1909.

June 23: At 6h. 00m., a.m., l.m.t., I set off 35° 00' N. on the lat. arc: 23° 29' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of the Tp.

Thence I run

N 0° 02' E. bet. secs. 34 and 35.

Ascend. steep slope over loose rocks.

9.00

Top of ridge, bears E. and W. Along steep W. side of canyon thru dense underbrush.

38.00

Desc. steep slope over loose rocks.

40.00

Set a malpais stone, 23x12x10 ins., 17 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on W. face; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.

47.00

Wash, 30 lks. wide, course SE. Asc. over loose rocks. Leave dense underbrush.

60.00

Desc. over loose rocks.

80.00

Set a malpais stone, 18x10x6 ins., 12 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; 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, none.

Subdivision of T₁₉ N., R₁ W.

chains.

Underbrush, oak brush.
Mountainous land covered with loose rocks and dense und
underbrush, exceptionally difficult to survey, 80.00 chs.

40.00 West on random line bet. secs. 27 and 34.
Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect the N. and S. line 4 lks. N. of the cor. of
secs. 27, 28, 34 and 35.
Thence I run
N $89^{\circ}58'E.$ on true line bet. secs. 27 and 34.
Over level land covered with 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 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.
50.00 Desc. in to canyon over loose rocks.
55.00 Wash, 30 lks. wide, course SE. Asc. over loose rocks.
80.00 The cor. of secs. 26, 27, 34 and 35.
Land nearly level.
Soil, rocky; 4th rate.
No timber or underbrush.
Land covered with loose rocks, 80.00 chs.

27.25 East bet. secs. 26 and 35.
Descending over loose rocks.
31.18 Wash, 40 lks. wide, course SE. Asc. over loose rocks.
Intersect the Meridian 9.66 chs. $S0^{\circ}39'E.$ of old $\frac{1}{4}$ sec. cor.
sec. 30 T₁₉ N R 1 E. Set a malpais stone, 16X12X6 ins.,
11 ins. in the ground, for closing cor. bet. secs. 26 and 35
marked 09 60 on W. face with 1 groove on S. and 5 groove
on the N. face; dig pits, 24X18X12 ins., crosswise on
each line, N. and S. of stone, 3 ft. dist., and W. of of s
stone, 7 ft. dist., and raise a mound of earth, 4 ft. base,
2 ft. high, W. of cor.
Land, mountainous.
Soil, rocky; 4th rate.
No timber or underbrush.
Mountainous land covered with loose rocks exceptionally
difficult to survey, 31.18 chs.
June 23; At this cor. I set off $23^{\circ}26, 1/2'N.$ on the
decl. arc and observe the sun on the meridian at noon;
the resulting lat. is $35^{\circ}00, 1/2'N.$

40.00 N $0^{\circ}02'E.$ bet. secs. 26 and 27.
Over level land covered with loose volcanic rocks.
Set a sandstone, 14X8X6 ins., 9 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.
51.95 Road, bears E. and W.
80.00 Set a malpais stone, 18X8X7 ins., 12 ins. in the ground, for
cor. of secs. 22, 23, 26 and 27; marked 09 on NE., face;
with 2 notches on S. and E. edges; raise a mound of
stones, 2 ft. base, 1, 1/2 ft. high, W. of cor.
Pits impracticable.
Land, level.
Soil, rocky; 4th rate.
Timber, none. No underbrush.
Land covered with loose rocks. 80.00 chs.

40.00 S $89^{\circ}58'W.$ on random line bet. secs. 22 and 27.
Set temp. $\frac{1}{4}$ sec. cor.
80.02 Intersect the N. and S. line 19 lks. S. of the cor. of
secs. 21, 22, 27 and 28.
Thence I run
S $89^{\circ}54'E.$ on true line bet. secs. 22 and 27.
Over level land covered with loose volcanic rocks.

Subdivision of Tp. 19 N., Rg. 1 W.

chains	
40.01	Set a sandstone, 16X8X6ins., 11ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N. face; dig pits, 18X18X12ins., E. and W. of stone, 3ft. dist., and raise a mound of earth, 3, 1/2 ft. base, 1, 1/2 ft. high, N. of cor.
51.50	Draw, course S. Asc. over loose rocks.
60.00	Top of ridge, bears N. and S. Desc. over loose rocks.
67.00	Draw, course S. Asc. over loose rocks.
80.02	The cor. of secs. 26, 27, 22 and 23. Land, level and rolling. Soil, rocky; 4th rate. No timber or underbrush. Land covered with loose rocks, 80.02 chs. June 23, 1909.
June 24; At 6h. 00m., a.m., l.m.t., I set off 35° 01', 1/2' N. on the lat. arc; 23° 28' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27. Thence I run East bet. secs. 23 and 26. Over level land covered with loose volcanic rocks.	
30.72	Intersect the Meridian 10.75 chs. ^{50.25'} S. of the old $\frac{1}{4}$ sec. cor. pt. for secs. 19, Tp. 19 N., R. 1 E., Set a malpais stone, 16X10X8ins., 11ins. in the ground, for closing cor. bet. secs. 23 and 26; marked 09 CC on W. face, with 2 grooves on S., and 4 grooves on N. face; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Land, level. Soil, rocky; 4th rate. No timber or underbrush. Land covered with loose rocks, 30.72 chs.
N 0° 02' E. bet. secs. 22 and 23. Over level land covered with loose volcanic rocks.	
2.60	Old road, bears NW. and SE.
40.00	Set a malpais stone, 16X8X6ins., 11ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on W. face; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.
80.00	Set a malpais stone, 14X12X8ins., 9ins. 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. edge; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Land, level. Soil, rocks; 4th rate. No timber or underbrush. Land covered with loose rocks, 80.00 chs.
N 89° 54' W. on random line bet. secs. 15 and 22.	
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. 15, 16, 21 and 22. Thence I run S 89° 57' E. on true line bet. secs. 15 and 22. Over level land covered with loose volcanic rocks.
19.00	Draw, course SE. Asc. over loose rocks.
29.00	Top of ridge, bears NW. and SE. Desc. over loose rocks.
39.50	Draw, course SE. Asc. over loose rocks.
40.01	Set a malpais stone, 18X8X6ins., 12ins. in the ground, for $\frac{1}{4}$ sec. cor., marked 09 $\frac{1}{4}$ on N. face; and raise a mound of stone, 2ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable.
43.00	Top of ridge, bears N. and S. Desc. over loose rocks.
47.50	Draw, course S. Asc. over loose rocks.
80.02	The cor. of secs. 14, 15, 22 and 23.

Subdivision of Td. 19 N. R. 1 W.

chains.	Land, level and rolling. Soil, rocky: 4th rate. No timber or underbrush. Land covered with loose volcanic rocks, 80.02 chs. June 24: At this cor. I set off 23°26' N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 35°02, 1/2' N. ✓
12.00'	East bet. secs. 14 and 23. Over level land covered with loose volcanic rocks. Rattlesnake creek, dry, 40 lks. wide, course S. Asc. over loose rocks.
29.48	Intersect the Meridian 11.72 chs ^{32°25'} of the 1/4 sec. cor. for sec. 18, Tp. 19 N. R. 1 E., set a malpais stone, 16x12x6 in. in the ground, for closing cor. bet. secs. 14 and 23 marked 09 CC on W. face; with 3 grooves on S. and N. face and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Land, level. Soil, rocky: 4th rate. No timber or underbrush. Land covered with loose rocks, 29.48 chs.
40.00	N 0°02' E. bet. secs. 14 and 15. Over level land covered with loose volcanic rocks. Set a malpais stone, 15x10x5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on W. face; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable.
73.00	Rattlesnake creek, dry, 35 lks. wide, course SE. thru dense underbrush, over loose rocks.
80.00	Set a limestone, 16x10x6 ins., 11 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 which:- A cedar, 12 ins., in diam., bears S 12° E. 252 lks. dist., marked 09 T 19 N R 1 W S 14 RT. A cedar 6 ins. in diam., bears N 40°30' E. E. 367 lks. dist., marked; 09 T 19 N R 1 W S 11 RT. No other trees available. Raise a mound of stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impracticable. Land, level. Soil, rocky: 4th rate. No timber. Underbrush, scrub oak brush. Land covered with loose rocks, 73.00 chs. Land covered with loose rocks and dense underbrush, exceptionally difficult to survey, 7.00 chs. June 24, 1909.
40.00	N 89°57' W. on random line bet. secs. 10 and 15. Set temp. 1/4 sec. cor.
79.94	Intersect the N. and S. line 5 lks. N. of the cor. of secs 9, 10, 15 and 16. Thence I run S 89°59' E. on true line bet. secs. 10 and 15. Ascending SW. slope over loose rocks.
20.00	Desc. SE. slope over loose rocks.
29.00	Drain, course S. Asc. over loose rocks.
39.97	Set a malpais stone, 20x8x6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 09 1/4 on N. face; and raise a mound of stones, 2ft. base, 1, 1/2 ft. high, N. of cor. Pits impracticable
50.00	Top of ridge, bears N. and S. Desc. over loose rocks.
60.00	Thru dense underbrush.
76.50	Rattlesnake creek, dry, bears S., Asc. over loose rocks.
79.94	The cor. of secs. 10, 11, 14 and 15. Land, mountainous. Soil, rocky: 4th rate. No timber.

Subdivision of Td. 19 N., R. 1 W.

chains.

Underbrush, cedar and scrub oak.
 Mountainous land covered with loose rocks and underbrush,
 exceptionally difficult to survey, 79.94 chs.
 June 24, 1909.

June 25: At 6h.00m., a.m., l.m.t., I set off 35°03' N. on
 the lat. arc; 23°27' 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.

East bet. secs. 11 and 14.

Over nearly level land covered with loose volcanic rock
 Drain, course S.

5.75
 20.60
 28.60

Wash, 20 lks. wide, course S. Asc. over loose rocks.
 Intersect the Meridian 13.20 chs. S. 0°13' E. of the $\frac{1}{4}$ sec. cor.
 for. secs. 7, Tp. 19 N., R. 1 E. Set a malpais stone,
 16X10X10 ins., 11 ins. in the ground, for closing cor. bet.
 secs. 11 and 14., marked 09 CC on W. face, with 4 grooves
 on S., and 2 grooves on N. face; and raise a mound of
 stones, 2ft. base, 1, 1/2 ft. high, W. of cor. Pits impratic-
 able.

Land, nearly level.

Soil, rocky; 4th rate.

No timber, or underbrush.

Land covered with loose rocks, 28.60 chs.

N 0°02' E. bet. secs. 11 and 10.

Ascending over loose volcanic rocks thru dense timber
 and underbrush.

29.02

Intersect the S. bdy. of Tract No. 41, 6.33 chs. N 89°39' E. of
 the cor. No. 4. Set a malpais stone, 20X10X4 ins., 15 ins.
 in the ground, for closing cor. marked 09 CC on S., and
 PC on N. face, with 2 grooves on E. face; from which:-

A cedar 6 ins. in diam., bears S 27° W. 83 lks.
 dist., marked; 09 CC T 19 N R 1 W S 10 RT.

A cedar 6 ins. in diam., bears S 44°30' W. 84 lks.,
 dist., marked; 09 CC T 19 N R 1 W S 11 RT.

Thence on blank line across private claim.

40.00
 69.03

Point for $\frac{1}{4}$ sec. cor. falls in private claim.
 Intersect the N. bdy. of Tract No 41, 6.61 chs. S 89°20' E. of
 cor. No. 3; Set a malpais stone, 20X10X6 ins., 15 ins. in
 the ground, for closing cor., marked 09 CC on N., and PC
 on S. face, with 2 grooves on E. face; from which:-

A cedar 8 ins. in diam., bears N 86° E. 37 lks.,
 dist., marked; 09 CC T 19 N R 1 W S 11 RT.

A cedar 9 ins. in diam., bears N 31°15' W. 153 lks.,
 dist., marked; 09 CC T 19 N R 1 W S 10 RT.

Descending over loose rocks thru dense timber and
 underbrush.

80.00

Set a malpais stone, 20X6X6 ins., 15 ins. 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 10 ins. in diam., bears S 67°30' E. 107 lks.,
 dist., marked; 09 T 19 N R 1 W S 11 RT.

A cedar 6 ins. in diam., bears S 49° W. 340 lks.,
 dist., marked; 09 T 19 N R 1 W S 10 RT.

No other tree available. 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, scrub oak.

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

Subdivision of Tp.19 N., Rg.1 W.

chains.	
	N 89°59'W. on random line bet.secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.90	The cor. of secs. 3,4,9 and 10. Thence I run S 89°59'E. on true line bet. secs. 3 and 10.on blank line across private claim. Descending thru saattering timber and dense underbrush over loose rocks.
89.95	Point for $\frac{1}{4}$ sec.cor falls in private claim.
73.08	Intersect the E. bdy.of Tract No.37, 10.90 chs N0°51'W.of cor. No.7; Set a malpais stone,20X10X10ins.,15ins.in th ground,for closing cor.; marked 09 CC on E.,and PC on W. face; with 5 grooves on S. face; and raise a mound of stones,2ft.base,1,1/2 ft.high,E. of cor. Pits impraticable.
79.90	Ascending over loose rocks thru dense underbrush. The cor. of secs. 2,3,10 and 11. Land,mountainous. Soil,rocky; 4th rate. Timber,cedar. Underbrush,cedar and scrub oak. Mountainous land covered with loose rocks and dense underbrush,exceptionally difficult to survey,79.90 chs. June 25: At this cor. I set off 23°24,1/2'N. on the decl.arc and observe the sun on the meridian at noon; the resulting lat.is 35°04'N. ✓
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	East bet.secs.2 and 11.
8.50	Asc.over loose rocks thru dense timber and underbrush. Top of ridge,bears N. and S. Desc. steep slope over loose rocks.
13.30	Desc.in to canyon,over loose rocks.
19.80	Wash,20 lks.wide,course S. Asc.steep slope over loose rocks.
28.34	Intersect the Meridian 13.47 chs.S. of the $\frac{1}{4}$ sec.cor. of secs 6,Tp.19 N. R 1 E; Set a malpais stone,23X12X5ins 17ins.in the ground,for closing cor. bet.secs. 2 and 11 marked 09 CC on W.face,with 5 grooves on S.,and 1 groove on N. face; from which:- A cedar 4ins.in diam.,bears S 23°W. 171 lks., dist.,marked; 09 CC T 19 N R 1 W S 11 BT. A cedar 8ins.in diam.,bears N 25°30'W. 80 lks dist.,marked; 09 CC T 19 N R 1 W S 2 BT. 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,29.34 chs.
	<hr/>
	N 0°02'E. bet.secs.2 and 3.
	Desc.steep slope over loose rocks thru dense timber and underbrush.
37.45	Wash,20 lks.wide,course SW. Asc.over loose rocks.
40.00	Set a malpais stone,16X10X6ins.,11ins.in the ground, for $\frac{1}{4}$ sec.cor.marked 09 $\frac{1}{4}$ on W. face; and raise a mound of stones,2ft.base,1,1/2 ft.hgh,W. of cor. Pits impraticable.
46.50	Top of rocky ridge,bears NE and SW. Desc.steep cliffs
54.00	Wash,60 lks.wide,course SW. Rattlesnake canyon. Asc.over loose rocks.
56.00	Bend in same wash,course SE.and SW. Asc.steep sloep ove volcanic boulders thru dense underbrush.
69.22	Intersect the S. bdy.of Tract No.48,Tp20NR1W 5.74 chs N86°10'E. of cor. No.5; Set a malpais stone,23X10X8ins.,17ins.in the ground,for closing cor.,marked 09 CC on S.,and PC on N. face with 2 grooves on E. face;from which:-

Subdivision of Tp.19 N., Rg.1 W.

chains

80.00

A cedar 6ins. in diam., bears S 62° E. 53 lks.
dist., marked 09 CC T 19 N R 1 W S 2 FT.
A cedar 6ins. in diam., bears S 29° W. 63 lks., dist
marked; 09 CC T 19 N R 1 W S 3 FT.

Thence on blank line across private claim.
Intersect the S. bdy. of Tp. 20 N., 77 lks. W. of the
point for cor. of secs. 34 and 35.
Land, mountainous.
Soil, rocky; 4th rate.
Timber, cedar.
Underbrush, cedar and scrub oak.
Mountainous land covered with dense underbrush and
loose rocks, exceptionally difficult to survey, 80.00 chs
June 25, 1909.

This township is generally rolling and mostly covered with cedar timber. The soil is rocky. Cedar Glade a small station of the S. F. P. & P. R. R. is located in sec. 33. There are no settlers. In making this survey I destroyed the old corners.

Alfred W. Oliver
U. S. Deputy Surveyor.

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

Jo.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

See Book. A. Sub. J. 707. 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 }
.....



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

See Book C Sub J. 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, Ariz. April 27, 189 1910.

The foregoing field notes of the survey of _____, by _____ and _____, of the private tracts in Twp. 19 N. (G. I. W.) and the recovery of said Township - Gila and Salt River Base and Meridian, Arizona

executed by Alfred N. Olson, 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 D. Ingalls
 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.