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2188 Silvy authorized letter E. 8/3//1910. FIELD NOTES

OF THE SURVEY OF THE

2188 OF THE SURVEY OF THE	
North, South and West Boundaries of Tp. 18 N. Rg. 1 W.	2_1 and the
North Boundary of Tp. 19 N. Rg. 1 W. and Tp. 17 N. Rg. 1	w
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2188	
Of the Gila and Salt River Meridian	
Territory of Arizona.	,
AS SURVEYED BY	
Alfred N. Oliver , United States Dep	uty Surveyor,
nder his Contract No. 153 , dated November 19, 1908	
rvey commenced May 19, 1909	•
	•
rvey completedJune 13, 1909	

2188

799

NAMES AND DUTIES OF ASSISTANTS.

WILL W. SNAWK	Alteriane
	
Archie Johnston	Chainman
	Aman
w. R. Johnston	V.VII.O**
	Flagman.
R. R. Land	f. a. r.D
•	
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6—151	·

Index BOOK 2188

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INDEX DIAGRAM.

Township , Range 1

7 8 9 10 11 12

18 17 16 15 14 13

10 20 21 22 28 24

30 29 28 27 26 25

Meanders Page.....

201

PRELIMINARY OATHS OF ASSISTANTS.

WE, will w. Shawk	and Archie Johnston
do solemnly swear that we will well and faithf	ully execute the duties of chainmen; that we will level the
chain upon even and uneven ground, and plumb	the tally pins, either by sticking or dropping the same; that
we will report the true distances to all notable	objects, and the true lengths of all lines that we assist in
	nd in accordance with instructions given us, in the survey of
the N., S., and W.boundaries o	f Tp. 18 W Rg. lw. shot the fi.
boundary of Tp. 19 N. Rg. 1 W.	and Ty 17 N. Rg. 1 W.
	Han Hainman.
	withil which on the chainman.
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Subscribed and sworn to before me this18	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
day of, 1909.	COO My Collins
医生态系数	agus ff. ours
₩ SEAL (W	U.S. Defects Surveyor
WE,	
	lly perform the duties of moundmen in the establishment
of corners, according to the instructions give	n us, to the best of our skill and ability, in the survey of
	, Moundman.
	, Moundman.
Subscribed and sworn to before me this	·)
day of, 190	
romanana.	· · · · · · · · · · · · · · · · · · ·
****** ** SEAL (#) *******	
penordada	
WE, I, W. R. Johnston	and
do solemnly swear that $w \overline{\pmb{k}}$ will well and truly	perform the duties of axmen in the establishment of corners
and other duties, according to instructions giv	en s, to the best of skill and ability, in the survey of
the N., S., and W. boundaries	of Tp. 18 N. Rg. 1 W. and the N. and Tp. 17 N. Rg. 1 W.
boundary of Tp. 19 N. Rg. I W	
	W. K. Johns low, Axman.
	, Axman.
Subscribed and sworn to before me this 18t	.h.,
day of May, 1909 , 190	albert M (Alson
	Jan
(R) SEAL (N)	U.S. Defuty Junty
I. R. R. Larie	
	do solemnly swear that I will well and truly
	tructions given me, to the best of my skill and ability, in the
survey of the N., S., and W., 600	w. and Tp. 17 N. Rg. 1 W., and the
n. Dumaday of Ipe (See 100 1000 C	A A Level, Flagman.
Subscribed and sworn to before me this18t	h. day of May, 1909
day of May, 1909. , 190	S am in in in
የአስ ውውው	Wyrd II, bury
<u> </u>	1 -1/15 Aleste Surssan
6—151	to the fact of the
No makemy exectionic without i	ose of time and great expense
No notary avaitable mithout 1	oss of time and great expense.

South Boundary of Tp. 18 N. Rg. 1 W.

Survey commercial May 19, 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 Arozona

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 Tps. 17 and 18 N. Rgs. 1 and 2 W.;
latitude 34° 55' N. / longitude 112° 24' 144" W. I set off
34° 55' N. / on the lat. arc; 19° 51 1/2' 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.

May 19, 1909

May 20: At 3h. 4lm. a.m., by my watch which has correct 1.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station.

At 5h. 30m. a.m., l.m.t., I lay off the azimuth of Polaris, 1° 26' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set May 19, on which the meridian coincides with the mark determined by the solar.

At 6h. 00m., a.m., 1.m.t., I set off 34° 55' N. on the lat. arc; 19° 57 1/2' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations defines positions for meridians which coincide with the meridian established by the Polaris observations; there fore, I conclude that the adjustments of the instrument ar e satisfactory.

The magnetic bearing of the true meridian at, 6h. 15m. a. m. is 14° 45' W.; the angle thus determined gives the mag. decl. 14° 45' E.

I commence at the cor. of Tps. 17 and 18 N. Rgs. 1 and 2 W. which has been previously described.

Thence I run

East bet. secs. 6 and 31. Over rolling mountainous land covered with loose volcanic rocks.

set a malpais stone 16 x 12 x 8 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $09\frac{1}{4}$ on N. face; dig pits $18 \times 18 \times 12$ 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.

Descend rough rocky E. slope.

Cross drain 5 lks. wide course N. E. and ascend. Set a malpais stone $18 \times 10 \times 6$ ins. 12 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked 09 on N. E. face with 1 notch on W. and 5 notches on E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of stone 4 ft. base 2 ft. high W. d cor. Land, mountainous

Soil, rocky; 4th rate. Timber, a few cedars.

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

40.00

60.60

66.00

80.00

so uth boundary of Tp. 18 N. Rg. 1 W.

chains. $p_{i}(p)$ East bet. secs. 5 and 32 Ascend W. slope, through scattering cedar timber, covered with loose rocks. Ridge bears N. E. and S. W. and descend. 8.00 Cross wash 50 lks. wide course S. E. and ascend steep W. 27.00 slppe. Ridge bears N. and S. and descend. 35.30 cross wash 50 lks. wide course S. and ascend S. W. slope. Set a limestone $20 \times 12 \times 4$ ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $09\frac{1}{4}$ on N. face; from which 38.70 40.00 A cedar 24 ins. diam., bears N. 80° E. 64 lks. dist. marked 09 \$332BT. No other tree available. Raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable. Descend E. slope 43.00 Cross wash 25 lks. wide course S. W. and ascend along 46.00 N. W. slope through dense timber. Cross wash 10 lks. wide course N. W. and change to S. W. 59.60 slope. cross wash 10 lks. wide course S. W. 61.20 Ridge bears N. E. and S. W. 70.00 Set a limestone 18 x 12 x 4 ins. 12 ins. in the ground 80.00 for cor. of secs. 4, 5, 32 and 33, marked 09 on N. E. face; with 4 notches on E. and 2 notches on W. edges; dig pits $18 \times 18 \times 12$ ins. in each sec. 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor. Land, mountainous. Soil, stony 4th rate. Timber, cedar. Mountainous land, covered with loose rock, exceptionally difficult to survey, 80.00 chs.

East het. secs. 4 and 33 Ascend S. W. slope tovered with loose rocks. cross wire fence bears N. E. and S. W. and through dense timber and underbrush. 12.70 Cross road bears N. W. and S. E. and descend steep E.

slope.

9.40

28.00 Leave timber and underbrush.

32.00 Cross wash 30 lks. wide course S. E. and ascend steep W. slope.

34.50 Ridge bears N. and S. and descend steep slope. 36.45 Cross wash 30 lks. wide course S. and ascend.

40.00 Mark a cross on a rock in place 14 x 10 ft. x 6 ins. above ground for \(\frac{1}{2} \) sec. cor. marked 09\(\frac{1}{2} \) on N. of cross; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

41.30 Ridge hears N. and S. descend steep E. slope. 45.00 Gross wash 10 lks. wide course S. and ascend.

48.00 Ringe hears N. and S. and descend. 53.30 Cross wash 30 lks. wide course S. E. and ascend.

60.00 Ridge bears N. and S. and desce nd

62.00 Line of old fence posts bears N. and S.

63.50 Cross wash 15 lks. wide course S. W. and ascend.

67.00 Ridge bears N. and S. and descend. 70.00 Cross wash 25 lks. wide course S. W. and ascend.

74.00 Ridge bears N. and S. and descend.

77.50 Cross drain 5 lks. wide course N. and ascend. 80.00 Set a limestone 18 x 7 x 6 ins. 12 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked 09 on N. E, face, with 3 notches on E. and W. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Land, rough and mountainous and covered with loose rocks.

so il, rocky; 4th. rate.

Timber, cedar.

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

```
A 47 5 13
                  South boundary of Tp. 18 N. Rg. 1 W. cor. I set off 19° 58 1/2' N. on the decl. arc;
         At this cor.
chains.
         and observe the sun on the meridian at noon, the resulting lat. is 34° 55' N.
         East bet. secs. 3 and 34.
         Ascend steep S. slope covered with loose rocks, through
         heavy timber and dense underbrush.
  3.75
         Descend precipitous S. E. slope into Verde Canyon.
         Intersect W. line of Tract No. 38 Tp. 18 N. Rg. 1 W.
  5.61
         at N.0° 53' W. 7.60 chains from cor. No. 3. and set
         a limestone 16 x 12 x 6 ins, 11 ins. in the ground for
         grooves on N. and S. faces; from which
A pinon 3 ins. diam., bears N. 61° W. 63 lks.
dist., marked O9CCT18NR1WS34BT.
A pinon 5 ins. diam., bears S. 52 1/4° W. 181 lks.
dist., marked O9CCT17NR1WS3BT.
        Thence across Tract 38 on a blank line.
 43.15 Intersect E. line of Tract No. 38 at N. 1º 01'W. 8.27
         Intersect E. line of Tract No. 50 as N. E. Chs. from cor. No 4 of tract, and set a granite stone 18 x 16 x 6 ins. 12 ins. in the ground for closing cor.
         of secs. 3 and 34, marked 0900 on E. face,
         on N. and S. faces; from which
               . A cedar 7 ins. diam bears S 57 1/2^{\circ} E. 104 lks.
                  dist., marked 09CCT17NR1WS3BT.
A cedar 11 ind. diam., bears N. 68° 05' E. 50 lks.
                        dist. marked O9CCT18NR1WS34BT.
        Thence ascend steep W. slope through heavy timber and
         dense underbrush.
         Ridge bears N. and S. descend steep E. slope covered
 50.00
         with loose rocks, leave timber and brush.
 61.00 | cross wash 35.1ks. wide course N. and ascend.
70.00 Ridge hears N. and S. and descend.
76.00 Along steep S. slope through heavy timber.
80.00 Set a sandstone 24 x 14 x 10 ins. 18 ins. in the ground
         for cor. of secs. 2, 3, 34 and 35, marked 09 on N. E.
         face; with 2 notches on E. and 4 notches on W. @ages;
         from which
                                           hears N. 60 1/2° E 14 lks.
                  A cedar 8 ins. diam.,
                        dist., marked 09Tl8NRlWS35BT.
                  A cedar 4 ins, diam., bears N. 69 3/4^{\circ} W. 156 lks.
                        dist., marked 09Tl8NRlWS34BT.
         No other trees available; raise amound of stone 2 ft.
          base, 1 1/2 ft. high w. of cor., Pits impracticable.
         Land, Rough and mountainous. Soil, rocky 4th. rate.
         Wimber, Cedar.
         Mountainous land covered with loose rocks, land heavily
         timbered and covered with dense underbrush, 80.00 chs.
         Exceptionally difficult to Survey
         East bet. secs. 2 and 35
         Along steep S slope through heany timber.
         Descend Rough S. W. slope covered with loose rocks.
  1.50
         Enter wash 20 lks. wide course E. and along same to
 12.10
         Leave wash course S. E.
 19.00
         Cross wire fence bears N. and S. Intersect W. line of Tract No. 4
 20.95
 23.21
```

Thersect W. line of Tract No. 40, Tp. 18 N. Rg. 1 W. and set a limestone 20 x 12 x 7 ins. 15 ins. in the ground for closing cor. of secs. 2 and 35, marked CCO9 on W. with 6 grooves on N. and S. faces; from which

A cedar 4 ins. diam., bears S. 63°20' W. 92 lks. dist., marked 09CCT17NR1WSZET.

A cedar 6 ins. diam., bears N. 69 1/2° W, 76 lks. dist., marked O9CCT18NR1WS35BT

Thence across Tract 40 on a blank line. Intersect E. line of Tract No. 40 at N. 1° 09' W. 889 lks. from cor. No. 8 and set a granite stone 20 x 6 x 5 ins. 15 ins. in the ground for closing cor. of secs. 2 and

63.20

South boundary of To. 18 N. Rg. 1

Chains. and 35 marked, CCO9 on E., PC on W. with 6 notches on N. and S. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high E. of cor. Pits impracticable.

Thence ascend precipitous S. W. slope out of Verde Canyon. N. side of Verde Canyon and ascend along steep S. W. slope covered with loose rocks.

Set a limestone 18 x 7 x 6 ins. 12 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked 09 on N. E. face, with 1 notch on E. and 5 notches on W. edges; from 80.00 which

A cedar 8 ins. bears N. 54° E. 198 lks. dist. marked O9T18NR1WS36BT.

A pinon 11 ins. diam., bears N. 42° W. 221 lks. dist., marked 09Tl8NRlWS35BT.

No other bearings available. Raise a mound of stone 2 dr ft. base 1 1/2 ft. high, W. of cor. Pits impracticable. Land, Rough and mountainous.

soil, rocky; 4th. rate. Timber, cedar and pinon.

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

East bet. secs. 1 and 36. Ascend steep slope covered with loose rocks.

Ridge bears N. and S. and descend very steep E. slope. Cross wash 20 lks. wide course S. and ascend steep W. 5.00 12.90

slope.

Intersect Gila and Salt River Meridian N. 7° 33' W. 3.50 chs. from the S. W. cor. of Tp. 18 N. Rg. 1 E. and set a limestone 20 x 8 x 5 ins. 15 ins. in the ground for 13.48 closing cor. of Tps. 17 and 18 N. Rg. lw. marked CCO9 on w.; with 6 grooves on N., S., and w. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high, w. of cor. Pits impracticable. From the cor.

A cedar 5 ins. diam., bears S. 40° 20' W. 124 lks.

dist., marked O9CCT17NRlWS1BT.

No other tree available. Note: The S. W. cor. of Tp.18 N. Rg. 1 C. was originally set as a closing cor. of that Tp. and was marked CC on the E. face. I obliterate the CC on the E. face and leave the stone marked with 6 notches on N. and E. edges for cor. of one township. Thence old I then go S. 7° 33' E. 7.00 chs. To the cor of Tps. 17 and 18 N. Rgs. 1 E. and 1 W. as set by Deputy Hesse and destroy this cor. Land mountainous and rough. Soil rocky; 4th. rate.

Timber a few cedars.

Mountainous land covered with loose rocks, exceptionally difficult to survey, 13.48 chs.

BOOK 2188

206 4A

	North houndary of To 17 N Rg 1 W
Chains	
	From the S. W. cor. of Tp. 18 N. Rg. 1 E. I now run
	East on N. bdy. of sec. 1 Tp. 17 N. Rg. 1 W.
	Ascending along steep N. W. slope through dense timber
	and underbrush.
10.00	
14.00	Drain lo lks. wide course S. W. and along in same to
15.50	leave drain and ascend.
20.00	Ridge bears N. E. and S. W. and descend along steep
p0.00	
00 55	S. E. slope.
26.55	Set a limestone 28 x 12 x 4 ins. 21 ins. in the ground
	for # sec. cor. marked # on N. face; from which
	A cedar 4 ins. diam., bears S. 75 ° E. 56
	lks, dist., marked 09481BT
	A cedar 5 ins. diam., bears S. 60 ° W. 168
	lks. dist., marked 094SlBT.
`28.50	Ascend steep S. w. slop.
35.50	Ridge bears N. W. and S. E. and descend steep N. E. slope
48.00	Cross wash 15 lks. wide course S. and ascend steep slope.
56.50	Ridge bears N. and S. and descend.
66.45	The closing cor. of Tps. 17 N. Rgs. 1 E. and 1 W.
	Land, rough and mountainous. previously desc.
	Soil rocky; 4th rate.
	Timber, cedar.
	Underbrush, cedar.
	Mountainous land, land heavily timbered and covered
	with dense underbrush, exceptionally difficult to,
	survey, 66.45 chs.
	bulled; octations.
1	l l

May, 20, 1909.

West boundary of Tp. 18 N. Rg. 1 W.

June 1: At 6h. 00m. p.m., 1.m.t., I set of 22° 07 1/2'

N. on the decl. arc; 34° 55' N. on the Mat. arc; and at the cor. of Tps. 17 and 18 N. Rgs. 1 and 2 W. determine a meridian with the solar on the meridian determined by an Observation on Polaris May. 20th. with which meridian the solar line coincides. June 1, 1909

June 2; At 6h. 60m. a.m., 1.m.t., I set off 34° 55' N. on the lat. arc; 22° 11' N. on the decl. arc; and at the cor. of Tps. 17 and 18 N. Rgs. 1 and 2. W. determine a meridian with the solar, which line agrees with the meridian established by observations on Polaris May 20th.
I commence at the cor. of Tps. 17 and 18 N. Rgs.

I and 2 W. previously described

Thence I run

North on a random line on the W. bdy. of Tp. 18 N. Rg. 1. W. setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs.; and, at 481.02 chs., intersect the S. bdy. of Tp. 19 N. Rg. 2 W. 159 lks. W. of the cor. of Tps. 18 and 19 N. Rgs. 1 and 2. W. The falling answers to a correction of 11' or 25 $\frac{1}{2}$ lks. E. per mile, counting from the S. W. cor. of the Tp.

June 2: At this cor. I set off 22° 11 1/2' N. on the

decl. arc; and observe the sun on the meridian; the

resulting lat. is 35° 00' N.

I commence at the cor. of Eps. 17 and 18 N. Rgs. 1 and

2 W. previously described,
Thence I run
N. 0° 11' E. bet. secs. 31 and 36

Over nearly level land

40.00 Set a malpais stone 16 x 8 x 8 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked 09 $\frac{1}{4}$ on W. face; dig pits 18 x 18 x 12 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 20 x 14 x 12 ins. 15 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges; gromewhich mound of cedar 16 ins. diam. bears N. 424 E. 250 lks. dist., marked 09T18NR1WS30BT.

No other trees available. Dig pits 18 x 18 x 12 ins. in each sec. $5 \frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land, level.

Soil, rocky 3rd. rate.

Timber, cedar.

.40.00

N. 0° 11' E. bet. secs. 25 and 30 Over nearly level land, covered with loose volcanic rock. Set a malpais stone 16 x 10 x 8 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $09\frac{1}{4}$ on W face; dig pits 18 x 18 x 12 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.

55.05 80.00

Cross road, bears N. E. and S. W. Set a limestone 16 x 8 x 6 ins. 11 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked 09 on N. E. face, with 2 notches on S. and 4 notches on N. edges: dig pits 18 x 18 x 12 ins. in each sec., 5 1/2 ft. dist and raise a mound of earth 4 ft. base 2 ft. high, W. of

Land, nearly level.

Soil, malpais rock, 4th. rate.

A very few cedars.

Land covered with volcanic rock 80.00 chs.

west boundary of To. 18 N.

chains.

N. 0° 11' E. bet. secs. 19 and 24. Over gradual S. slope.

cross under telegraph line bears N. E. and S. W. 14.53.

Cross S. F. P and P.R. R. bears N. E. and S. W. 15.84 cross under telegraph line bears N. E. and S. W. 17.16

20.92

Cross road hears N. E. and S. W. Set a malpais stone 18 × 10 × 8 ins. 12 ins. in the 40.00 ground for $\frac{1}{4}$ sec. cor., marked $09\frac{1}{4}$ on W. face; from which A cedar 18 ins. diam., bears N. 22 1/2° E. 68 lks. dist., marked $09\frac{1}{4}$ S19BT.

No other tree amailable. Dig pits 18 x 18 x 12 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

65:00 Enter heavy timber and dense underbrush, bears E. and W. Set a malpais stone 20 x 6 x 6 ins. 15 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked 09 on N. E. face, with 3 notches on N. and S. edges: from which A cedar 24 ins. diam, bears N. 42° 20' E. 603 lks.

dist., marked 09T18NR1WS18BT. A cedar 8 ins. diam., bears S. 40 4 E. 300 lks. dist., marked O9T18NR1WS19BT.

A cedar 24 ins. diam., hears S. $10\frac{1}{4}$ W. 209 lks.

dist., marked 09T18NR2WS24BT.
A cedar 6 ins. diam., bears N. 66° W. 36 lks. dist., marked 09Tl8NR2WSl3BT.

Land, level. Soil, sandy 2nd. rate. Timber, cedar.

Underbrush, cedar.

Land covered with hea vy timber and dense underbrush exceptionally difficult to survey 17.00 chs.

N. 0° 11' E. bet. secs. 13 and 18. Over level land through cedar timber and brush, scattering over level land through cedal tumber and brush, scattering set a limestone 18 x 10 x 8 ins. 12 ins. in the ground for 1 sec. cor. marked 09 on W. face; from which A cedar 18 ins. diam, bears N. 44° 05' W. 294 lks.

Dig pits /ex/8x/2 ios. Mand of store of the comes dense.

Timber and under brush becomes dense.

74.30

80.00

Cross road bears N. E. and S. W. set a limestone $20 \times 8 \times 6$ ins. 15 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked 09 on N. E. face, with 4 notches on S. and 2 nitches on N. edges: from which

A cedar 10 ins. diam, bears N. 65° 10' E., 88 lks. dist., marked O9T18NRlWS7BT.

A cedar 10 ins. diam, bears S. 47° 50' E. 61 lks.

dist., marked O9T18NRlWS18BT.

A cedar 8 ins. diam., bears S. 26° 05' W. 228 lks.

dist., marked 09T18NR2WS13BT.
A cedar 4 ins. diam., bears N. 31° 15' W. 37 lks. dist., marked 09T18NR2WS12BT.

Land, level. Soil, sandy loam, 1st. rate.

Timber cedar.

Underbrush, cedar. Land covered with heavy timber and dense underbrush, exceptionally difficult to survey 40.00 chs.

June 2, 1909.

June 3; At 6h. 00m. a.m., l.m.t., I set off 34° 58' N. on the lat. arc; 22° 19' N. on the dedl. arc; and determine a meridian with the solar at the cor. of secs. 7, 12, 13, and 18 on the W. bdy. of the township. Thence I run

N. 0º 11' E. bet. secs. 7 and 12.

		West boundary of Tp. 10 N. Rg. 1 W.
	Chains.	
	40.00	Set a limestone 18 x 12 x 10 ins. 12 ins. in the ground.
	40.00	for \(\frac{1}{4}\) sec. cor., marked 09\(\frac{1}{4}\) on W. face; from which
		A cedar 9 ins. diam., bears N. 81 1/2° E. 36 lks.
		dist., marked 09 \$78T!
	•	dist., marked objects.
	-	A cedar 22 ins. dism., bears S. 554 W. 22 lks.
•		dist., marked 094S12BT.
	75.50	Cross wash 15 lks. wide course E.
	80.00	set a limestone 20 x 8 x 6 ins. 15 ins. in the ground
		for cor. of secs. 1, 6, 7, and 12, marked 09 on N. E.
		face, with 5 notches on S. and 1 notch on N. edges.
		from which
		A cedar 20 ins. diam., bears N. 62° 10' W. 171 lks.
	•	dist., marked 09T18NR2WS1BT.
		No other tree available. Dig pits 18 x 18 x 12 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, rolling.
		Soil, sandy loam; 1st. rate.
		Tamber, cedar and pinon.
		Underbrush, cedar.
		Land heavily timbered and covered with dense underbrush
		exceptionally difficult to survey, 80.00 chs.
	-	N. 0° 11' E. bet. secs. 1 and 6.
		Over rolling land.
	5.00	Through dense timber and underbrush
	11.40	Cross road hears E. and W.
	38.00	cross wash 15 lks. wide course E., old road hears E. and
	58.00	w. and ascend over mountainous land.
	40.00	Set a limestone 16 x 8 x 5 ins. 11 ins. in the ground
	40.00	for ½ sec. cor. marked 09½ on W. face; from which
	Di Carriero de Car	A cedar 20 ins. diam., bears N. 13° 20' E. 67 lks.
	To Comment	dist., marked 09-186BT.
		A cedar 8 ins. diam., bears S. 27° 05' W. 142 lks.
		dist., marked 09 181BT.
	50.05	cross road bears E. and W. and descend N. slope.
	50.95	cross wash 10 lks. wide curse E. and ascend
	56.00	Ridge bears E. and W. and descend.
	64.00	cross wash 30 lks. wide course E. and ascend.
	79.1.0	The cor. of Tps. 18 and 19 N. Rgs. 1 and 2. W. A lime
	81.02	stone 18 x 8 x 7 ins. set 12 ins. in the ground, marked
		stone 18 x 8 x y ins. Set 12 ins. in the ground, marked
		09 on N. E. face, with 6 notches on each edge; from which
		A cedar 10 ins. diam., bears S. 36° 35' W. 59 lks.
		dist., marked 09T18NR2WS1BT.
		A cedar 12 ins. diam., bears N. 82° E. 84 lks.
		dist., marked 09T19NRlWS31BT.
		A cedar 7 ins. diam., bears S. 234° E. 15 lks.
		dist., marked 09T18NR1WS6BT.
		A cedar 12 ins. diam., bears N. 63° W. 34 lks.
		dist., marked 09T19NR2WS36BT.
	*130 9	Land, rolling and mountainous.
		Soil; sandy and stony; 2nd, and 4th. rate.
	Library or year	Timber cedar and pinon.
		Underbrush cedar.
		Mountainous land, land heavily timbered and covered with
	•	dense underbrush, exceptionally difficult to survey 76.
	-	02 chs

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BOOK 2188
            North boundary of To. 18 N
Chains.
            June 3; from the cor. of Tps. 18 and 19 N. Rg. I and
          2 W. I now run
East bet. secs. 6 and 31
          Asce nd rocky slope through dense timber and underbrush.
  3.00
          Ridge bears N. and S. and over loose rocks, descending.
          Cross drain 10 lks. wide course S. and ascend steep slope. Cross road on ridge bears N. W. and S. E. and descend. Cross wash 50 lks. wide course N. E. and ascend. Cross ridge bears N. and S. and descend.
  5.3.0
 9.00
 18.75
 29.00
          Cross drain 6 lks. wide course N. E.
 33.40
          Set a malpais stone 20 x 7 x 5 ins. 15 ins. in the ground for \frac{1}{4} sec. cor. marked 09\frac{1}{4} on N. face; from which A cedar 5 ins. diam., bears S 68° 35' E. 84 lks.
 40.00
                         dist., marked 09 4868T.
                   A cedar 8 ins. diam., hears N. 86° 55' W. 129 lks. dist., marked 09 4831BT.
 49.80
          cross road hears N. W. and S. E.
          Cross road bears S. W. and N. E.
 58.00
         Cross wash 75 lks. wide course N. E. and ascend.
 58.65
          cross road bears N. E. and S. W.
 60.35
          Ridge hears N. and S. and descend.
 63.00
 64.00
          cross road bears N. E. and S. W.
          cross drain 5 lks. wide course S. E. and ascend.
 68.00
          Cross wash 25 lks. wide course N. E.
 71.60
 78.00
          Ridge bears N. and S. and descend.
          Mark a cross on a limestone in place 12 x 10 x 6 ins.
 80.00
          above ground for cor. of secs. 5, 6, 31 and 32, marked 09 on N. E. and 5 grooves E. and 1 groove W. of cross;
          from which
                   A cedar 12 ins. diam., bears N. 84 1/2° E. 145 lks
                          dist., marked 09T19NR1WS32BT.
                   A cedar 10 ins. diam., bears S. 45 1/4^{\circ} E. 28 lks.
                          dist., marked O9T18NR1WS5 BT.
                   A cedar 10 ins. diam., bears S. 81 3/4° W. 41 lks.
          dist., marked 09T18NR1WS6BT.

A cedar 6 ins. diam., bears N. 17° 50' W. 66 lks.

dist., marked 09T19NR1WS31BT.

Land, mountainous and rocky.
          Soil, rocky, 4th rate.
          Timber, cedar and pinon.
          Underbrush cedar.
          Mountainous land heavily tembered and covered with dense
          underbrush and loose rock. 80.00 chs.
          Exceptionally difficult to survey
          East bet. secs. 5 and 32
          Descending through dense timber and underbrush over loose
          cross drain 10 lks. wide course N. E.
  9.60
          Cross wash 75 lks. wide course S. E. and ascend steep
  15.00
          slope.
          Ridge hears N. and S. and descend.
 17.00
          Cross drain 5 lks. wide course S. W. and ascend.
 23.00
          Puntenney lime quarry bears S. 75 lks.
 33.00
          Cross wash 55 lks. wide course N. and ascend. Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for pasco core; marked 09 4 on N. face; from which
  38.30
  40.00
                   A cedar 4 ins. diam., bears N. 22° E. 254 lks. dist. marked 09 4832BT
                    A cedar 5 ins. diam, bears S. 364°E. 173 lks.
                          dist., marked 094S5BT.
          Ridge beras N. and S. and descend steep slope into Hell
  45.00
          canyon.
          Cross drain 5 lks. wide course N. E. and ascend S. W. slop
  48.30
  52.00
```

Descend N. E. slope. Cross Hell Canyon Wash 90 lks. wide course S. E. and 55.60 ascend steep rough slope. Top and over nearly level land covered with loose 63.50 volcanic rock. Telegraph line hears N.E. and S. W.

63.67 Cross S. W. P. and P. R.R. bears N. E. and S. W. 66.00

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North boundary of To. 18 N. Rg. 1
Chains.
         Telegraph line bears N. E. and S. W. Set a malpais stone 18 x 7 x 6 ins. 12 ins. in the ground
 66.84
80.00
         for cor. of secs. 4, 5, 32 and 33, marked 09 on N. E.,
         face; with 2 notches on W. and 4 notches on E. edges;
                  from which
                  A cedar 8 ins. diam., bears N. 13 3/4° E. 252 lks. dist., marked O9T19NR1WS33BT.
                  A cedar 24 ins. diam., bears S. 14° 40' E. 505 lks. dist., marked O9T18NRlWS4BT.
                  A cedar 8 ins. diam., baers S. 46 1/2° W. 3071ks.
                  dist., marked 09T18NR1WS5RT.
A cedar 22 ins. diam., bears N. 57° W. 311 lks. d
                        dist., marked 09T19NR1WS32BT.
         From this cor. Puntenney lime kiln bears S. 54° 45' W.
         warehouse hears S. 55° 40' W.
House bears S. 57° 45' W.
At this cor. I set off 22° 19' N. on the decl. arc; and
         observe the sun on the meridian at noon; the resulting
         ht. is 35° N.
         Land, Mountainous and broken and level.
         Soil, rocky: 4th. rate.
         Timber, cedar.
         Underbrush, cedar.
         Mountainous land, heavily timbered and covered with
         dense underbrush and loose rock, exceptionally difficult
         to survey 80.00 chs.
        East. bet. secs. 4 and 33
         Ascending through cedar timber and underbrush over loose
        volcanic rocks.
        Cross road bears N. W. and S. E. Set a malpais stone 24 x 7 x 5 ins. 18 ins. in the
31.65
40.00
        ground for \frac{1}{4} sec. cor. marked 09\frac{1}{4} on N. face; from
        which
                 A cedar 16 ins. diam., bear dist., marked 094848T.
                                             bears S. 39° W. 374 lks.
                 A cedar 4 ins. diam., bears N. 49° W. 531 lks. dist., marked 09 4833BT.
42.00
        Low ride bears N. and S. and descend.
        Cross draw course S.
60.00
        Set a malpais stone 28 x 8 x 5 ins. 21 ins. in the ground
80.00
        for cor. of secs. 3, 4, 33 and 34, marked 09 on N. E.
        face, with 3 notches on E. and W. edges: from which A cedar 6 ins. diam., bears N. 27 1/2° E. 31 lks.
                 dist., marked 09T19NR1WS34BT.

A cedar 6 ins. diam., bears S. 37° 10' E. 62 lks.
                 dist., marked O9T18NRlWS3BT.
A cedar 7 ins. diam., bears S. 47° 10' W. 165 lks.
                 dist., marked 09Tl8NRlWS4RT.
A cedar 6 ins. diam., bears N. 17 1/2° W. 72 lks.
                       dist., marked 09T19 NR1WS33BT.
        Land.rolling.
        Soil, rocky; 4th. rate.
        Timber cedar, and pinon.
        Underbrush, cedar.
        Land heavily timbered and covered with dense underbrush.
        and loose rocks, exceptionally difficult to survey,
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East bet. secs. 3 and 34.

Over level land, covered with loose volcanic rocks, through heavy timber and dense underbrush.

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

Set a malpais stone 20 x 9 x 8 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{2}$ on N. face; from which

38.00 40.00 80.00 chs.

set a malpais stone 20 x 9 x 8 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. diam., bears N. 72\(\frac{1}{2} \) 45' E. 57 lks. dist., marked 09\(\frac{1}{4} \) 334BT.

North boundary of To A cedar 14 ins. diam., hears S. 10 1/2° E. 81 lks. dist., marked 09 \$38T. Chains Descend into Wagon Tire canyon, leave timber . 46.00 Cross wash 75 lks. wide course S. E. and ascend steep 59.20 slope. Ridge heras N. and S. and descend. 71.00 Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked 09 on N. E. face, with 2 notches on E. and 4 notches on W. 80.00 edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high w. of cor. Pits impracticable. Land, rolling and mountainous. Timber. cedar. Soil; rocks; 4th. rate. underbrush, cedar. Mountainous land, aland heavily timbered and covered with dense underbrush and loose rock, exceptionally difficult to survey 80.00 chs.

> East bet. secs. 2 and 35 Descend over loose rock.

8.70 31.51

cross wash 35 lks. wide course S. W. Intersect Gila and Salt River Meridian N. 0° 08' E. 32.60 chs. form the cor. of Tps. 18 and 19 N. Rgs. 1 E. and 1 w. which is a stone marked and witnessed as described by the surveyor general, and set a malpais stoen 24 v 12 x 8 ins. 18 ins. in the ground, for closing cor. of Tps. 18 and 19 N. Rg. 1 W., marked CCO9 on W; with 6 grooves on N., S., and W. faces; dig.pits, 30 x 24 x 12 ins., crosswise on each line, N. and S., 4 ft. and W. of stone 8 ft. dist.: and raise a mound of earth, 5 ft. base 2 1/2 ft. high, W. of cor. (I change old cor. to refer to Land, mountainous. Land, mountainous.

soil, rocks; 4th. rate.

No timber.

Mountainous land covered with loose rock, exceptionally difficult to survey 31.51 chs.

June 3, 1909

Boundaries of Tp. 18 N. Rg. 1 W. and closing errors.

Latitudes, der			Latitudes		Departures	
Line designated	bearing	Distance	N	2	E	W.
N. bdy. TIBNIRIW.	West.	351.51				351.51
Wbdy. T.ISNA.IW.	50°/1.W	481.02		481.02		1.59
S. bdy. T. 18 N.R.I W.	East	4/2.81			412.81	
G. & S.R. Mer. thro. T. 18 N.	N.7°35'W.	451.74	447.82			<i>59,</i> 35
W. bdy. Sec 31 TIANRIE.	Nº 08'E	32.60	32.60		.08	
Convergency						4:
Totals	1	•	48042	481.02	412.89	412.8
Error in lat.			.60	Error	in dep.	.0

General Description. This Tp. is generally rolling except the S. E. cor. which is mountainous. The Verde river runs through the south portion of secs. 34 and 35. The township is well covered with cedar timber. The soil is generally rocky. While running the boundaries of this Tp. I destroyed the old cors.

Olfus M. Christon. Surveyor.

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Notth boundary of Tp. 19 N. Rg. 1 W.
           June 14: At 6h. 00m. a.m., 1.m.t., I set off 35° 05' N. on the lat. arc; 23° 171/2' N. on the decl. arc; and
           determine a meridian with the solar at the cor. of Tps.
           19 and 20 N. Rgs. 1 and 2. W., previously described,
              Thence I run
           East bet. secs. 6 and 31.
           Descending through old cutting and dense brush over
           loose volcanic rock.
25.15
           Cross road bears N. and S.
         cross wash bears W. course S. and ascend.
25.70
           Ridge bears N. and S. and descend.
Set a malpais stone 18 \times 10 \times 6 ins. 12 ins. in the ground for \frac{1}{4} sec. cor. marked 09 \frac{1}{4} on N. face; from which
39.00
40.00
                      A cedar 6 ins. diam., bears S. 75° E. 50 lks.. dist., marked 09 486BT.
           No other tree available. Raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable.
           Cross drain course S. and ascend.
47.00
           Over nearly level land, ascending.
Set a malpais stone 16 x 10 x 8 ins. 11 ins. in the ground
60.00
80.00
           for cor. of secs. 5, 6, 31 and 32, marked 09 on N. E, face, with 5. notches on E. and 1 notch on W. edges; from which
                      A cedar6 ins. diam., bears N. 57 1/2° W. 147 lks.
                              dist., marked T20NRlWS3lBT.
           No other trees abailable. Raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable.
           Land, mountainous and level.
           soil, rocks; 4th. rate.
           Timber cedar.
           Underbrush, cedar.
Mountainous land, covered with dense brush and covered
           with loose volcanic rock, Sexceptionally difficult to
           survey, 80.00 chs.
           East bet. secs. 5 and 32.
           Descending across old cutting through dense young timber
           and underbrush over loose volcanic rock. Cross old wood road hears N. and S.
 2.05
           Leave cutting and through heavy timberand dense brush.
10.00
           Cross drain course S. and ascend.

Cross ridge bears N. and S. and descend.

Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for \( \frac{1}{4} \) sec. cor., marked 09\( \frac{1}{4} \) on N. face; from which

A cedar 5 ins. diam., bears N. 62 1/2° E. 14 lks.

dist., marked 09\( \frac{1}{4}\) 32BT.
23.00
39.00
40.00
A cedar 6 ins. diam., bears S. 24 3/4° E. 181 lks.
dist., marked 09 $25BT.

62.10 Cross wash 25 lks. wide course S. E. and ascend.
72.58 Intersect W. line of Tract No. 47, Tp. 20 N. Rg. lw.,
N. 0° 09' E. 13.51 chs. from cor. No. 5 of tract and
           set a malpais 18 x 10 x 6 ins. 12 ins. in the ground for
           closing cor. of secs. 32 and 33, marked CCO9on W. PC on E., with 6 grooves on N. and S. faces; from which A cedar 6 ins. diam., bears S. 72° W. 108 lks.
                               dist., marked O9CCT19NRlWS5BT
                       A cedar 8 ins. diam., bears N. 64 1/2° W. 96 lks.
           dist., marked 09CCT20NRlWS32BT.
Thence I run on a blank line across tract No. 47.
           Point for cor. of secs. 4, 5, 32 and 33 falls in Tract
80.00
           No. 47.
           Land, Rolling mountains.
```

Soil; rocks, 4th. rate. Tomber, cedar and pinon. Underbrush, cedar.

Mountainous land, land heavily timbered and covered with dense underbrush and loose rock, 80.00 chs.

Exceptionally difficult to Survey

214

North houndary of To. 19 N. Chains. East bet. secs. 4 and 33 On a blank line across Tract No. 47 from point where sec. cor. fell. Intersect E. line of Tract No. 47 N. 0° 09' W. 13.33 chs. 73.77 from cor. No. 7 of tract, and markageross on a malpais rock in place 14 x 10 x 6 ins. above ground, for closing cor. of secs. 4 and 33, marked CCO9 on E., PC on W, with 6 grooves N. and S. of cross; from which A cedar 8 ins. diam., bears N. 48 1/2° E. 52 lks. dist. marked CCO9T2ONR1WS33BT. A cedar 5 ins. diem., bears S. 23 1/2° E. 77 lks. dist., marked CCO9Tl9NRlWS4BT. Thence ascend through heavy timber and dense brush over losse volcanic rock. Set a Malpais stone 18 x 10 x 6 ins. 12 ins. in the ground 80.00 for cor. of secs. 3, 4, 33 and 34, marked 09 on N. E. face, with 3 notches on E. and W. edges; from which A cedar 6 ins. diam., bears N. 45° E. 3 lks. dist. marked 09T20NRlWS34BT. A cedar 6 ins. diam., bears N. 77° W. 7 lks. dist., marked 09T2ONRlWS33BT. Land, rolling mountains. Soil, stony; 4th. rate. Timber, cedar Underbrush, cedar.
Mountainous land, land heavily timbered and covered with dense underbrush and loose rock; 80.00 chs. Exception lly difficult to Survey June 14; At this cor. I set off 23° 16½ N. on the decl. arc; and abserve the sun on the meridian at noon, the resulting lat. 2s 35° 05' N. East bet. secs. 3 and 34 Ascending over mountainous land, through dense timber and underbrush over losse volcanic bounders. Ridge hears N. E. and S. W. and descend.

Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground

for desc. cor. marked 094 on N. face; from which 14.00 40.00 A cedar 8 ins. diam., bears N. 21 1/2° W. 65 lks. dist., marked 097834BT. A cedar 6 ins. diam., bears S. 59°.E. 18 lks. dist., marked 09 183BT. Descend into Rattlesnake Canyon. 57.00 Cross wash 30 lks. wide course S. and ascend.out of 63.00 canyon. Rim of canyon and over nearky level land. 68.50 Intersect E. line of Tract No. 48, Tp. 20 N. Rg. 1 W. North No. 18 x 8 x 8 ins. 12 ins. in the ground 73.50 for closing cor. of secs. 3 and 34, marked 0900 on W. PC on E. with 6 grooves on N. and S. faces; from which A cedar 12 ins. diam., bears N. 32° W. 9 lks. dist., marked CCO9T2ONRIWS34BT
A cedar 5 ins. diam., bears S. 50° W. 78 lks. d
dist., marked O9CCT19NRIWS3BT.
Thence on a blank line across Tract 48.

. 80.00

Point for cor. falls on tract.

Land, rough and mountainous.

Soil, rocks; 4th. rate.

Timber, cedar and pinon.

Underbrush, cedar.

Mountainous land, land heavily timbered and covered with dense underbrush and loose rock 80.00 chs.

Exceptionly difficult to Survey

East bet. secs. 2 and 35 On a blank line across tract No. 48, from point for sec. cor.

27.40 Intersect Gila and Salt River Meridian S. 0° 34' W. 14.00

Chains.

)

North boundary of Tp. 19 N. Rg. 1 W. chs. from the 4 sec. cor. on the W. bdy. of Sec. 31NTp. 20 N. Rg. 1 E. and set a malpais stone 18 x 10 x 8 ins. 12 ins. in the ground for closing cor. of Tps. 19 and 20 N. Rg. 1 W., marked 09CC oh W. face, with 6 grooves on N. S., and W. faces; from which

A cedar 5 ins. diam., bears N. 48° W. 48 lks.

dist., marked 09CCT20NRlWS35BT.
A cedar 8 ins. diam., bears S. 69 1/2° W. 100 lks. dist., marked O9CCT19NRlWS2BT.

Land, mountainous.

Soil, rocks; 4th. rate.

Timber, cedar.

Underbrush,.cedar.

Mountainous land, land heavily timbered and covered with dense brush and loose rocks 27.40 chs.

Exceptionly difficult to Surrey

June 14, 1909.

Boundaries of Tp. 19 N. Rg. 1 W. Latitudes, departures, and closing errors.

Line designated	True	Distance	Latit	udes	Depari	tures
· ·	bearing	DISTAINEC	N	S	E	W
N. bdy. TIGN. AIW.	West	347.40				34740
W. bdy. T19 N. A1 W.	51°30'W.	40.10		4009		101
	50°46'E.	39.96		3996	54	
	50°19'E	40.28		4028	22	
•	50°06'W.	40.27		4027		0 7
	50°02' E.	39.93		3993	03	
	50°07'E.	39.93		3 993	OP	
•	50°05'E	39.97		3997	06	
•	50°34' W.	39.95		3995		40
	50°/2'E.	39.90		3990	14	
	50°18'E.	40.01		4001	2/	
	50°09'E	40.02		4002	11	
	50°09'W.	40.02		4002		11
S.bdy TION AIN	East	35/.57			35151	
S.bdy T. 19N. A.1 W. G&S. R. Mer. thro T.19N.	N.0°08'E	8.44	844		02	
	N.0002W	40.65	4065			02
	N.0°39'W.	40.65	4065			46
	N.0°28'W.	40.58	4058			3 3
	N.0003'W.	40 40	4040			0 3
	N. 0° 03' W.	40.40	4040			0 4
	W. 2° 25' W.	40.59	40 55	1-1-1-1		171
	N. 0°31' W.	40.69	4069			3 7
	N.0° 13' W.	40.68	4068			10
	N.0°15'W.	39.96	4055			/8
•	N. 0°26' W.	40.37	3996	 	++++	117
	N.0°34' 5:	26.08	17/0	 		30
	77.0 07 2.		2608	- - -	26	444-
Convergency	1	L				37
Totals.	'	F/	180.00 4	180.33	53.18	353.18
Error in lat.		- 1		Error in		100
			4	EPPOP 11.	oep.	

General description.
This township is generally rolling, and mostly covered with cedar timber. The soil is rocky. In running the boundaries of this township I destroyed the old cors.

US. Deputy Surveyor.

2/64

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

(4)

LIST OF NAMES.

, United States Deputy Surveyor, to assist in ru	inning massuring and
marking the lines and corners described in the foregoing field notes of the survey of	
and W. boundaries of Tp. 18 N. Rg. 1W and the N. berry	or one N. S.
19 N. Rg. 1 W. and Tp. 17 N. Rg. 1 W. showing the respective capacities in which they acted:	ary or Tp.
Will W. Shawk	, Chainman.
Archie Johnston	, Chainman.
·	,
W. R. Johnston	, Mownaman.
R R Lana	, Axman.
R. R. Lane.	$\dots, Flagman.$
FINAL OATH OF ASSISTANTS.	
We hereby certify that we assisted Alfred N. Oliver	
, United States Deputy Surv	
those parts or portions of the N., S., and W., boundaries of Tp. 1	8 N. and the
Shares A	
. boundary of Tp. 19 N. Rg. 1W. and Tp. 17 N. Rg. 1 W.	
	·
alt River Territory of Arizona	of the Gila and
alt River meridian, Territory of Arizona	of the Gila and which are represented
alt River meridian, Territory of Arizona, n the foregoing field notes as having been surveyed by him and under his direction:	of the Gila and which are represented
alt River meridian, Territory of Arizona, n the foregoing field notes as having been surveyed by him and under his direction; has been in all respects, to the best of our knowledge and belief, well and faithful	of the Gila and which are represented and that said survey
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I,	Alfred N. Oliver	United States Deputy Surveyor, do
solemnly swea	r that, in pursuance of a cont	tract received from wrank S. Ingalls
Jnited States	Surveyor General for Ar12	, 1908, I have well, faithfully, and truly, in my own
19011	and in strict conformity wi	th the instructions furnished by the United States Surveyor
Name of form	Arizona	the Manual of Surveying Instructions, and the laws of the
Tailed Deater	annyoyod all those parts or 1	portions of the N., S., and W. boundaries
f Tp. 18	N. Rg. 1 W. and the	e N. boundary of Tp. 19 N. Rg. 1 W.
and Tr	o. 17 N. Rg. 1 W.	
		of the Gila and Salt
River	meridian, in the Tex	rritory of Arizona, which are represented in the
oregoing field	d notes as having been survey	yed by me, and under my direction; and I do further solemnly
wear that all	the corners of said survey h	ave been established and perpetuated in strict accordance with
ha Manual o	f Surveying Instructions, and	the special written instructions of the United States Surveyor
General for	Arizona	and in the specific manner described in the field notes, and that
the foregoing	are the original field notes of	f such survey.
		Alfred M. flins United States Deputy Surveyor.
		United States Deputy Surveyor.
Subscribed b	y said Myra I W	dinin, and sworn to before me
this	1 day of I mm	, 190 T
		June S. S. zalle
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	SEAL O	Snaul I in zalle limited Photes Dunge heur
		- for argue
		APPROVAL.
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	OFFICE OF THE U	INITED STATES SURVEYOR GENERAL,
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The fo	oregoing field notes of the sur	vey of the South Cauch College
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	River Bose Red	Mendin anyana
executed by	alfred N.	Oliver 11. (Deputy Surger
under his co	ontract No. / J date	d Norther 19 , 1908, having been
critically e	xamined, and the necessary of	corrections and explanations made, the said field notes, and the
	y describe, are hereby approv	
		United States Surveyor General.
		Chinea Bunes Burveyor Generus.
Loor	tify that the foregoing transc	ript of the field notes of the above-described surveys in
1 661	has be	en correctly copied from the original notes on file in this office.
		United States Surveyor General.
		United States Surveyor General.