Book "P"

(Subdivisions)

BOOK 3257

FIELD NOTES

OF THE RETRACEMENT OF

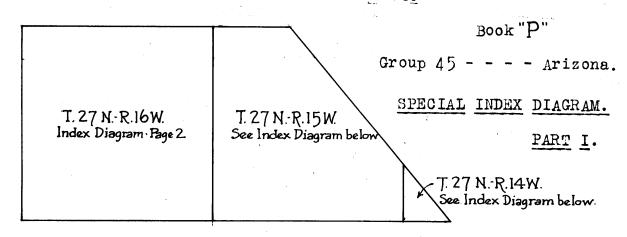
<u></u>	the Subdivision Lines of TOWNSHIP 27 NORTH, RANGE 15 WEST.
	OF THE SURVEY OF THE
	SUBDIVISION LINES of those parts of
· · · · · · · · · · · · · · · · · · ·	TOWNSHIP 27 NORTH, RANGE 14 WEST.
	and
	TOWNSHIP 27 NORTH, RANGE 15 WEST
-	situated outside the boundary of the
Parrena a a a a a a a a a a a a a a a a a a	HUALPAI · INDIAN · RESERVATION ·
and of	the Survey of the completion of the SUBDIVISION LINES of
· · · · · · · · · · · · · · · · · · ·	TOWNSHIP 27 NORTH, RANGE 16 WEST
In the Sta	Of the Gila and Salt River Base and Meridian, te of Arizona. EXECUTED BY
	S.Frank Walters and James, C. Hooper.
·	U. S. Transitmen.
In the eap	acity of U.S. Surveyor, under instructions dated January 7., , 1915
issued by	the United States Surveyor General to govern surveys included in
Group No.	45, which were approved by the Commissioner of the General Land
Office,	January 26,, 1915.
trac ement	& Survey commenced January 4.,
tracement	Executed under Assignment Instructions dated Dec. 7/9/6.

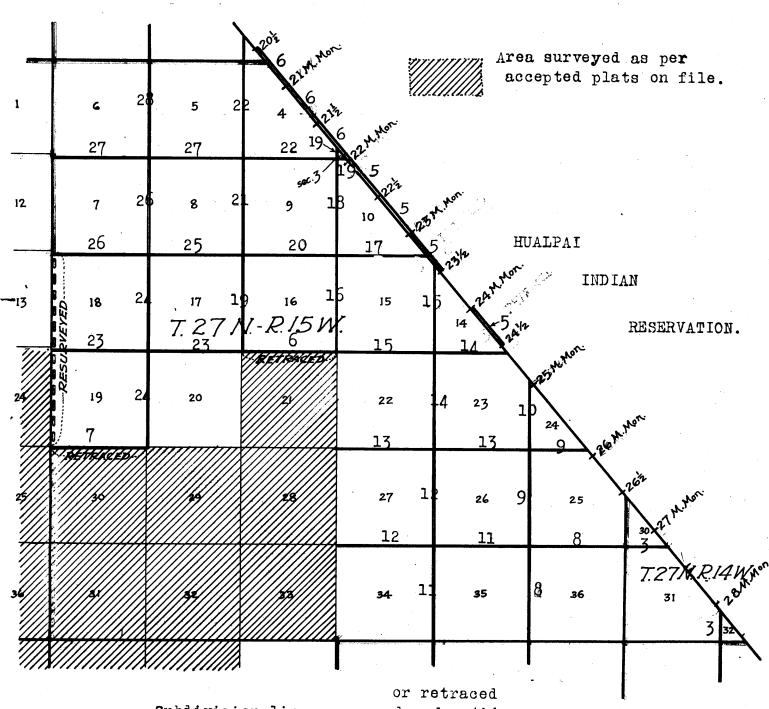
Book "P"

Group 45 - - - - Arizona.

SEE SPECIAL INDEX DIAGRAM.

\	1	NE	DE.	×	DI	AC	ЗR	AN	1.		/
Tot	wnship	25 N	orth,		, <i>l</i>	Range	20) West	; ;	/	
6	26	5	19	4	14	3	10	2	8	1	
26	5	25		19		14		9/		5	
7	25	8	3.8	9	13	10	9/	11	4	12	
24		24		18	<i>2</i>	13/		8		4	
18	23	17	17	16	13/	15	8	14	3	13	
23		23		17		12		7		3	_
19	22	20	17.	21	12	22	7	23	2	24	
22		21		16		11		7		2	
30	21	29	16	28	11	27	6	26	2	25	
21	\mathcal{L}	20		15		10		6		1	
5 1	20	32	15	33	10	34	5	35	1	36	
				·							7





Subdivision lines surveyed, under this group.

Township bdys.surveyed under this group.
Notes in Book "A."

Hualpai Indian Reservation bdy retraced. Notes in this book.

_____ Accepted surveys.

Township bdrs. retraced or resurv. under this group. Notes in book "A".

Book "P"

Group 45 - - Arizona.a.

SPECIAL INDEX DIAGRAM.

PART II.

BOOK 3257

<i>"///</i>			· ·	·			
	RETR D	RESURVE				•	2
				3 3	7 2, 3	3 1	
				36	36	32	
	•	8		10 3	5 11 3	2 12	
				34	34	31	
	748	35	1.56 17.72.77)	15 3 VR.16 W.	3 14 3	L 13 03/14	0 6 6 6
	35	29	27	20	23	20	0 0 0
	78	29	28	27	26		
	*	79	73		138	35	
		_ Subdivis	ion lines	surveyed o	r resurvey	ed under	this group.

	Subdivision lines surveyed or	resurveyed under th
-	Township bdys. surveyed under Notes in Book "A."	this group.
(2) (2) (3) (4) (4) (5)	Township boundaries retraced or resunders in book "A".	irveyed under this group
	Accepted vsurveys: per accepted plate on file.	
7 /77777777777777777777777777777777777	Area surveyed, as per accepted	l plats on file.

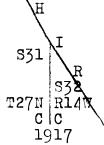
30

Subdivision of Part of T. 27 N. R. Chains. Survey executed by S. Frank Walters, U. S. Transitman, on dates shown on diagram on page 41 hereof, using Buff Bolar transit No. 9985, vedescribed in Book "A." Recent and repeated tests of this instrument on a meridian established by observations on Polaris at elongation, demonstrate that it is in good adjustment : coess From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., which is an iron post, described in Book"A,"

N.O° 1' E., bet. secs. 31 and 32. Over rolling mountainous land, through scattering timber and dense undergrowth. Desc. 90 ft. 8.90 Draw, course N.60° E. Asc. 25 ft. 14.40-Spur, slopes E. Desc. 100 ft. Draw. course N.70° E. Asc. 25 ft. Wire fence, brs. W. and E. 50 lks. to fence cor., thence 22.70 23.60 27.20 Intersect Hualpai Indian Reservation Boundary

S.40° E. of the 28 mile cor., which is a limestone, 6 X 8 X 12 ins. above ground, firmly set, marked and witnessed as described by the Surveyor-General.

At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for closing cor. of secs. 31 and 32, marked on brass cap



And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high. S Land, rolling mountainous. Soil, rocky, 2nd and 4th rates. Timber, cedar and pinion. Undergrowth, scrub oak and cat claw.

From the cor. of secs. 25, 30, 31 and 36, on the W. bdy. of the Tp., which is an iron post, dwscribed in Book East on a true line, bet. secs. 30 and 31.

Over rolling and mountainous land, through scattering undergrowth.

Desc. 70 ft.

6.80

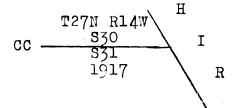
36.05

Asc. 230 ft. Draw. course N.

Intersect Hualpai Indian Reservation Boundary, 18.86 chs. S.40° E. of the 27 mile cor., which is a lava stone, 10 X 10 X 12 ins. above ground, firmly set, marked and witnessed as described by the Surveyor-General.

At the point of intersection, set an iron post, 3 ft. long,

2 ins. diam., in a mound of stone, for closing cor. of secs. 30 and 31, marked on brass cap



Subdivision of Part of T. 27 N., R. 14 W.

Chains.

30 84

And raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor.

Land, rolling and mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, scrub oak and manzanita.

General Description.

This township consists of portions of two sections only, and is rolling mountainous land, timbered with scattering scrub juniper and pinion pine, and covered with scrub oak and cactus undergrowth. There is a very sparse growth of native grass. There is no water. There are no settlers.

```
Chains.
            Retracements and surveys hereinafter described, executed by S.Frank Walters and James C.Hooper, U.S. Transitmen, using Buff solar transit No. 9985, and Young and Sons'light mountain transit No. 8489, respectively, on dates shown
            on diagrams on pages 39 and 41, hereof.

The initials "S.F.W." and "J.C.H." are inserted at the
                 beginning and ending of those portions of the notes de-
                 scribing the respective surveys by S. Frank Walters and
                 James C. Hooper, U.S. Transitmen.
            Recent and repeated tests of the instruments on a meridian
                 established by observations on Polaris at elongation,
                 demonstrate that they are in satisfactory adjustment.
            RETRACEMENT: PART OF HUALPAI INDIAN RESERVATION BOUNDARY.
            S.F.W.
            From the 242 mile cor., which is a limestone, 12x3x6 ins.
                 above ground, ,firmaly set, marked and witnessed as de-
                 scribed by the surveyor-general,
            N.40°W., on a random line.
            Over mountainous land, thru.scattering timber and under-
                 growth.
            Descend 105 ft.
  9.63 Gulch, course NE Ascend 220 ft.
Ridge, brs.N. and S. Descend 595 ft. over cliffs.
Intersect the witness cor.to the 24 mile cor., which is a limestone, 20x6x6 ins., above ground, firmly set, marked and witnessed as described by the surveyor general.
            The true course and dist. of line between the 24 mile witness cor. and the 24 mile cor. is therefore S.40°
                 E., 35.20 chs.
            Land, mountainous.
            Soil, rocky, 4th rate.
            Timber, cedar and pinon.
            Undergrowth, scrub oak and manzanita.
            From the 23½ mile cor., which is a limestone 6x10x6 ins., above ground, firmly set, marked and witnessed as described by the surveyor-general,
            N.40°W., on a random line.
            Over mountainous land, thru dense timber and undergrowth.
            Ascend 790 ft.
  23.60 Spur, slopes N. Descend 130 ft.
27.50 Ravine, course NE. Ascend 275ft.
Ridge, brs.NE and SW. Descend.
39.79 Fall 7 lks.S. 50°W., of the 23 mile cor., which is a stone
                 8x6x10 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
            The true course and distance of this half mile is therefore N.39° 54.W., 39.79 chs.
            From the 23 mile cor.
            N.40°W. on a random line.
Descend 225 ft.
  15.10
20.05
Descend 45 ft.
20.05
Descend 105 ft.
24.50
Ravine, course NE. Ascend 215 ft.
Fall 19 lks.N. 50° E. of the 22½ mile cor., which is a limestone, 9x5x12 ins.above ground, firmly set, marked and witnessed as described by the surveyor general.
            The true course and distance of this half of mike is
                 therefore N.40° 16' W., 39.79 chs.
            From the 22\frac{1}{2} mile cor., N.40°W., on a random line.
```

Ascend 85 ft. 11.40 Ridge, brs.NE. and SN. Descend 100 ft.

Over mountainous land, thru. dense timber and undergrowth.

```
6. Retracement: Part of Hualpai Indian Reservation. Boundary.
Chains
22.30
31.10
Descend 80 ft.
35.95
Ascend 70 ft.
Fall 2 lks.N.50°E. of the 22 mile cor., which is a lime-
stone, 10x6x8 ins., above ground, firmly set, marked
and witnessed as described by the surveyor-general.
The true course and distance of this half mile is there-
fore N.40°2'W..39.73 chs.
             From the 22 mile cor., N.40°W., on a random line. Ascend 150 ft.
   Over mountainous land, thru. dense timber and undergrowth

4.80
Spur, slopes NE. Ascend 150 ft.

Spur, slopes NE. Descend 335 ft.

Fall 13 lks.S 50°W. of the 21½ mile cor., which is a lime-
stone, 14x5x12 ins., above ground, firmly set, marked and
witnessed as described by the surveyor general.

The true course and distance of this half mile is there-
fore N 30° 401 W 30 30 chs
                  fore N.39° 49' W., 39.30 chs.
             From the 21\frac{1}{2} mile cor., N.40°W., on a random line. Over rolling land, thru. dense timber and undergrowth.
             Descend.
   14.50 Draw, course NE.
39.91 Fall 9 lks.N. 50° W. of the 21 mile cor., which is a lime-
stone, 10x4x16 ins. above ground, firmly set, marked and
witness as described by the surveyor general.
             The true course and distance of this half mile is there-
                  fore N.40°8 W., 39.91 chs.
             From the 21 mile cor.
             N.40°W., on a random line.
             Over rolling land, thru. dense timber and undergrowth.
             Ascend 75 ft.
   29.95 Descend.
37.70 Draw, course NE. Ascend 25 ft.
40.33 Fall 2 lks.N. 50°W. of the 20½ mile cor., which is a lime
                  stone, 14x10x4 ins., above ground, firmly set, marked and
                  witnessed as deworibed by the surveyor-general.
             The true course and distance of this half mile is therefore N.39°58'W., 40.33 chs.
             Land, rolling and mountainous.
             Soil, rocky, 4th rate.
             Timber, cedar and pinon.
             Undergrowth, scrub oak, and manzanita.
                                                                                     S.F.W.
             RETRACEMENT: SUBDIVISION LINES OF T.27 NORTH, RANGE 15 WEST.
             From the cor.of secs. 15,16,21 and 22, which is an iron
                 post, properly set, marked and witnessed as described
                  by the surveyor general,
             N.89°58'W., on a random line, bet. secs.16 and 21.
             Over rolling land, thru.scattering undergrowth.
   22.49 Wash, 15 lks.wide, 4 ins.deep, course S.20°W. N.20W&5.20° 37.07 Wash, 20 lks.wide, 4 ins.deep, course S.40°W. Wire fence, brs.
   39.96 Fallilo 1ks. Soft point for 1/4 sec. cor. of sec. 16.
   40.23 Fall 10 lks.S.of the original 4 sec.cor., which is an iron
                  post, properly set, marked and witnessed as described by
                  the surveyor-general.
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Retracement: Part of Subdivision lines of T. 27 N. R. Chains. The true course and distance of this half mile size there-fore N.89° 50' W., 40.23 chs. From the ½ sec. cor., N.89° 58' W. on random line, beta. secs. 16 and 21. (W.half). Over mountainous land, through scattering undergrowth. Asc. 120 ft. Spur, slopes S.10° W. Desc. 130 ft. 13.45 20.55 27.25 Ravine, course S.20° W. Asc. 55 ft. Spur, slopes S.20° W. Desc. 125 ft. Ravine, course S.10° E. Asc.
Fall 7 lks. S. of the original cor. of secs. 16, 17, 20 and 21, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General. 37.15 39.69 The true course and distance of this half mile is therefore N.89° 52' W., 39.69 chs. The $\frac{1}{4}$ sec.cor.on this line therefore refers to sec.21 only. Land, rolling and mountainous. Soil, rocky and gravelly, 4th rate. No timber. Undergrowth, sagebrush, cactus and greasewood. From the cor. of secs. 19, 20, 29 and 30, N.89° 57' W., om a random line, bet. secs. 19 and 30. Over level land, through scattering undergrowth. Wash, 20 lks. wide, 2 ft. deep, course \$.60° W. Asc. 260 ft. 10.00 31.60 39.36 40.11 Spur, slopes S. Desc. 30 ft.
Fall 2 lks. S. of the original 4 sec. cor., which is an iron post, properly set, marked and witnessed as described by the Surveyor-General. The true course and distance of this half mile are therefore N.89° 56' W., 40.11 chs. From the 1 sec. cor., N.89° 57' W., on a random line, bet. secs. 19 and 30. Over mountainous land, through scattering undergrowth. Desc. 15 ft. 1.60 Asc. 240 ft. Spur, slopes S.20° W. Desc. 525 ft. Foot of descent, brs. N.40° E. and S.30° W. Thence over 14.00 ,30.40 level land. Fall 29 lks. S. of the original cor. of secs. 19, 24, 25 39.25 and 30, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General. The true course and distance of this half mile is therefore N.89° 32' W., 39.25 chs. Land, mountainous. Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood. J.C.H.

8 Subdivision of Part of T. 27 Chains. S.F.W. Impracticable to chain measurement fon true line, bet secs. 35 and 36; therefore, from a point 13.57, chs. 2 role control secs.1,2,35 and 36 on S.bdy.of Tp., described in Book N.0° 1' W., on offset line, through sec. 36. Over rolling land, through dense timber and undergrowth. Asc. 50 ft. Desc. 250 ft.

West 13.57 chs. The true point for \(\frac{1}{4}\) sec. cor. falls on a rock in place, 12 X 8 X 6 ins. above ground. I mark a cross at the exact cor. point, with \(\frac{1}{4}\) on top of rock 14.80 40.00 for 1 sec. cor., and raise a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Continue N.0° 1' W., on offset line, 13.57 chs. E. of sec. line, along broken cliffs.
Gulch, course NW. Asc. 50 ft.
Desc. 50 ft. 48.30 51.40 Asc. 150 ft. Desc. 15 ft. 52.50 76.70 80.00 West 13.57 chs. Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, in a mound of stone, for cor. of secs. 25, 26, 35 and 36, marked on brass cap T27N R15W S26 S25 835 836 1917 From which A Pinion, 10 ins. diam., brs. N.70 to E., 31 lks. dist. marked T27N R15W S25 BT. A cedar, 8 ins. diam., brs. S.12° E., 63 lks. dist., marked T27N R15W S36 BT. A pinion, 10 ins. diam, brs. $8.66\frac{1}{4}$ ° W., 81 lks. dist. marked T27N R15W S35 3T. A pinion 10 ins. diam., brs. N.12\frac{2}{4}^{\circ} W., 45 lks. dist., marked T27N R15W S26 BT. Land, mountainous. Soil, rocky, 4th rate. Timber, cedar and pinion. Undergrowth, scrub oak. S.89° 58' 元., on a random line, bet. secs. 25 and 36. Set temp. 1/4 sec. cor. 40.00 Intersect E. bdy. of Tp., 7 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, described in Book "A.". -79.85 Thence N.89° 55' W., on a true line, bet. secs. 25 and 36. Over rolling and mountainous land, through dense timber and undergrowth. Asc. 25 ft. 1.35 9.55 39.92¹/₂ Ridge, brs. N.30° E. and S.30° W. Desc. 105 ft. Draw, course N. Asc. 300 ft. Set an iron post, 3 ft. long, l in. diam., in a mound of stone, for 1 sec. cor., marked on brass cap 325 336 1917 And raise a mound of stone, 2 ft. base, $1\frac{1}{8}$ ft. high, N of cor. 44.25 Ridge, brs. N. and S.30° E. Desc. 170 ft. 55.55 Draw, course N.40° W. Asc. 95 ft. Spur, **Blopes N. Desc. 60 ft.

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of Part
Chains.
 72 · 45
74 · 85
79 · 85
             Head of gulch, course N.30° E Asc. Spur, slopes N. Desc. 35 ft. The cor. of secs. 25, 26, 35 and 36. Land, rolling and mountainous.
                                                                      Asc. 30 ft.
             Soil, rocky, 4th rate.
             Timber, dense cedar and pinion.
             Undergrowth, scrub oak and cat claw.
             N.0° 1' W., bet. secs. 25 and 26.
             Over rolling land, through dense timber and undergrowth. Asc. 35 ft.
8.95
16.95
            Spur, slopes N.70° W. Desc. 65 ft. Draw, course N.60° W. Asc. Desc. 100 ft.
 25.00
 46.00
             Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \frac{1}{2} sec. cor., marked on brass cap
                                                 $26<sup>4</sup>$25
                  From which
                 A cedar, 8 ins. diam., brs. S.71° E., 31 lks. dist., marked \frac{1}{4}S25 BT.
                  A cedar, 10 ins. diam., brs. N.14° W., 39 lks. dist., marked 326 BT.
            Draw, course W. Asc.
Desc. 30 ft.
Draw, course N.30° E. Asc.
Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 23, 24, 25 and 26, marked on
55.95
60.00
71.15
80.00
                  brass cap.
                                                 T27N R15W
S23 S24
S26 S25
                                                      1917
                  From which
                 A cedar, 8 ins. diam., brs. N.45° E., 120 lks. dist., marked T27N R15W S24 BT.
                 A cedar, 6 ins. diam., brs. S.43½° E., 160 lks. dist., marked T27N R15W S25 BT.

A cedar, 7 ins. diam., brs. S.48° W., 91 lks. dist., marked T27N R15W S26 BT.

A cedar, 8 ins. diam., brs. N.8° W., 227 lks. dist., marked T27N R15W S23 BT.
            Land, rolling.
Soil, rocky, 3rd and 4th rates.
Timber, dense cedar and pinion.
            Undergrowth, scrub oak and cat claw.
            East on a true line, bet. secs. 24 and 25.
            Over rolling land, through dense timber and undergrowth.
            Desc. 30 ft.
  4.00
            Draw, course N.30° H. Asc. 50 ft.
12.00
            Thence along N. slope.
            Desc. 65 ft.
29.00
           Draw, course N. Asc. 55 ft.
Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for 4 sec. cor., marked on
35.90
10.00
                 brass cap
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10).	Subdivision of Part of T. 27 N. R. 15 W.	
	Chains.	1 S24	
		1917	
		From which A ceder, 16 ins. diam., brs. N.45 $\frac{1}{2}$ ° E., 31 lks. dist.,	٠
		marked 2S24 BT. A cedar, 8 ins. diam., brs. S.122° E., 66 lks. dist., marked 4S25 BT.	
	41.00 48.78	Spur, slopes N. Desc. 35 ft. Intersect Hualpai Indian Reservation Boundary, 6.29 chs. N.40° W. of the 26 mile cor., which is a stone, 10 X 8 X 10 ins. above ground, firmly set, marked and witnessed	۹
		as described by the Surveyor-General. At the point of intersection, set an iron post, 3 ft. long 2 ins. diam., in a mound of stone, for closing cor. of	g,
	•	secs. 24 and 25, marked on brass cap	• '
		T27N R15W I I S25 R	
	•	From which	:
		A cedar, 10 ins. diam., brs. N.56% W., 36 lks. dist., marked CC T27N R15W S24 BT. A cedar, 6 ins. diam., brs. S.77° W., 86 lks. dist.,	
		marked CC T27N R15W S25 BT. Land, rolling. Soil, rocky, 4th rate. Timber, dense cedar and pinion.	
		Undergrowth, scrub oak and manzanita.	: -
	9.00 34.60 38.00 40.00	From the cor.of secs.23,24,25 and 26, N.0° l' W., on a true line, bet. secs. 23 and 24. Over rolling land, through dense timber and undergrowth. Asc. 25 ft. Desc. 80 ft. Draw, course N.40° E° Asc. 15 ft. Spur, slopes N.50° E. Desc. Set an iron post, 3 ft. long, l in. diam., in a mound of stone, for 4 sec. cor., marked on brass cap	
		\$23 S24	•
		1917	
		From which A cedar, 10 ins. diam., brs. N.483° E., 94 lks. dist., marked \$24 BT. A cedar, 8 ins. diam., brs. S.104° W., 55 lks. dist., marked \$23 BT.	
	41.90 42.50 51.50	Wash, course B. Asc. 35 ft. Trail , brs. E. and W. Point of spur, slopes E. Desc. 15 ft.	•.
	51.50 55.60 58.40	Wash, course S.80° E. Asc. 30 ft. Intersect Hualpai Indian Reservation Boundary, 2.45 chs. N.40° W. of the 25 mile cor., which is a stone, 16 X 6 X 12 ins. above ground, firmly set, marked and witnesse as described by the Surveyor-General.	đ
		At the point of intersection, set an iron post, 3 ft. long 2 ins. diam., 8 ins. in the ground, in a mound of stone for closing cor. of secs. 23 and 24, marked on brass cap	
		S23 R S24 R15W	:
		c c 1917	;

From which

12	Subdivision of Part of T. 27 N. R. 15 W.
Chains.	A pinion, 8 ins. diam., brs. N.47% E., 84 lks. dist.,
	marked \$26 BT. A cedar, 10 ins. diam., brs. S.68% W., 69 lks. dist.,
	marked $\frac{1}{4}$ S35 BT.
43.70	Gulch, course SW. Asc. 65 ft. Spur, slopes SW. Desc. 255 ft.
62.70	Gulch, course S.30° W. Asc. 200 ft.
71.80	Spur, slopes SW. Desc. 60 ft. Gulch, course SW. Asc. 65 ft.
86.08	The cor. of secs. 26, 27, 34 and 35. Land, mountainous.
ه ۱۰۰۰ دهن هما در این این این این	Soil, rocky, 4th rate.
	Timber, scattering cedar and pinion. Undergrowth, scrub oak and cat claw.
•	
	N.89° 58' W., on a random line, bet. secs. 27 and 34.
40.00	Set temp. 1/4 sec. cor. Intersect N. and S. line, 9 lks. N. of the cor. of secs.
80.36	27 28 33 and 34 which is an iron post, properly set,
to a false	marked and witnessed as described by the Surveyor-General.
	Thence N.89° 58' E. on a true line, bet. secs. 27 and 34.
	Over gently rolling land, through scattering undergrowth.
15.95	Leave gently rolling land, brs. N.40° W. and S.50° E. Asc. 970 ft.
40.18	
	327 334

,	And raise a mound of stone, 2 ft. base, 1 ft. high, N
	of cor.
71.85	Desc. 30 ft.
71.85 80.36	The cor. of secs. 26, 27, 34 and 35. Land, mountainous and gently rolling.
	Soil, rocky, 4th rate.
	No timber. Undergrowth, cactus and cat claw.
* 1	
	N.00 1' W., bet. secs. 26 and 27.
	Over mountainous land; through scattering undergrowth. Asc. 105 ft.
13.25	Desc. 15 ft. Head of gulch, course 5.45° E. Asc. 80 ft.
22.15	Spur. slopes W. Desc. 30 ft.
24.95 32.95	Gulch, course S.70° W. Asc. 110 ft. Spur, slopes W. Desc. 45 ft.
35.25 38.35	Gulch, course N.60° W. Asc. 95 ft. Spur, slopes W. Desc. 205 ft.
40.00	Set an iron post, 3 ft. long, 1 in. diam., in a mound of
	stone, for 1 sec. cor., marked on brass cap
	\$27\s26
	\$27 \\$26 1917
	And raise a mound of stone, 2 ft. base, 1 ft. high, W
44.00	
45.15	Spur, slopes N.60° W. Desc. 190 ft.

13

DOOK 3257

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Chains.
 52.15
56.05
59.65
64.25
            Gulch, course 7.
                                       Asc. 130 ft.
            Spur, slopes W. Desc. 65 ft. Gulch, course W. Asc. 85 ft.
           Guich, course W. Asc. 85 ft.
Spur, slopes W. Desc. 310 ft.
Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, in a mound of stone, for cor. of secs. 22, 23, 26 and 27, marked on brass cap
 80.00
                                            T27N | R15W
                                             S22 | S23
                                              S27 | S26
                                                 1917
                And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, W.
                of cor.
           Land, mountainous.
           Soil, rocky, 4th rate.
           Timber, none.
           Undergrowth, scrub oak and cat claw.
           	imes .89^{\circ} 47' E., on a random line, bet. secs. 23 and 26.
40.00
           Set temp. 4 sec. cor.
79.92
           Intersect N. and S. line, 26 lks. N. of the cor. of secs.
               23, 24, 25 and 26.
           Thence
           S.89° 58' W., on a true line, bet. secs. 23 and 26. Over rolling land, through dense timber and undergrowth. Set an iron post, 3 ft. long, 1 in. diam., in a mound of
39.96
               stone, for 4 sec. cor., marked on brass cap
                                              1917
               From which
              A cedar, 8 ins. diam., brs. N.384° E., 52 lks. dist., marked \pmS23 BT. A cedar, 10 ins. diam., brs S.264° W., 7 lks. dist., marked \pmS26 BT.
45.90
51.90
53.70
74.90
           Asc. 30 ft.
          Desc. 815 ft.
          Top of cliff, 150 ft. high, brs. N. and S. Gulch, course N.50° W. Thence along N. slope. The cor. of secs. 22, 23, 26 and 27. Land, mountainous and rolling.
79.92
           Soil, rocky, 4th rate.
           Timber, cedar and pinion.
           Undergrowth, scrub oak.
          S.89° 58' W., on a random line, bet. secs. 22 and 27. Set temp. 2 sec.cor.
40.00
          Intersect N. and S. line, 28 lks. S. of the cor. of secs.
80.41
               21, 22, 27 and 28, which is an iron post, properly set marked and witnessed as described by the Surveyor-Gen-
               eral.
          Thence
          S.89° 50' E., on a true line, bet. secs. 22 and 27.
          Over mountainous land, through scattering undergrowth.
          Asc. 190 ft.
Spur, slopes SW.
 4.40
                                     Desc. 100 ft.
14.00
          Gulch, course S. Asc. 475 ft. Spur, slopes S.50° W. Desc. 145 ft.
          Gulch, course S.
30.40
         Set an iron post, 3 ft. long, 1 in. diam., in a mound of
40.20=
               stone, for 4 sec. cor., marked on brass cap
```

1.		Subdivision of Part of T. 27 N., R. 15 W.
	chains.	1 S22 4 S27
		1917
		And raise a mound of stone, 2 ft. base, $l_2^{\frac{1}{2}}$ ft. high, N
	56.05 63.40 71.90 77.10 78.00 80.41	Asc. 185 ft. Head of gulch, course S.50° W. Continue ascent. Ridge, brs. M.70° W. and S.70° E. Desc. 105 ft. Wire fence, brs. N.45° E. and S.45° W. Gulch, course N.30° E. Asc. The cor. of secs. 22, 23, 26 and 27. Land, mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, cat claw.
	_	
		N.0° 1' W., bet. secs. 22 and 23. Over mountainous land, through scattering timber and undergrowth.
	4.70 6.40 14.70 19.70 24.40 29.70 40.00	Desc. 130 ft. Wire fence, brs. N.45° E. and S.45° W. Gulch, course N.40° W. Asc. 60 ft. Point of spur, slopes W. Desc. 90 ft. Gulch, course W. Asc. 35 ft. Spur, slopes W. Desc. 145 ft. Gulch, course S.80° W. Asc. 450 ft. Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, in a mound of stone, for \(\frac{1}{2}\) sec. cor., marked on brass cap
		S22 S23
		1917
	68.00	And raise a mound of stone, 2 ft. base, 1½ ft. high, Wof cor.Impracticable to continue on sec.line; therefore Offset West 6.76 ths.; thence continue N.O° 1' W. Desc. 50 ft. Offset East 6.76 chs. Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for cor. of secs. 14, 15, 22 and 23, marked on brass cap T27N R15W S15 S14 S22 S23 1917
•		And raise a mound of stone, 2 ft. base, $l_{2}^{\frac{1}{2}}$ ft. high, W .
		of cor. Cor. stands in cave, at foot of cliff, brs. N.30° W. and S.30° W.
		Land, mountainous. Soil, rocky, 4th rate. Timber, scattering cedar and pinion. Undergrowth, scrub oak and cat claw.
	* * * * * *	East on a true line, bet. secs. 14 and 23. Over mountainous land, through scattering timber and undergrowth.
	22.50 36.80 40.00	Asc. 915 ft., over cliffs. Ridge, brs. N. and S. Desc. 170 ft. Gulch, course N. Asc. 170 ft. Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for ½ sec. cor., marked on brass cap

TOOK 3257

Subdivision of Part of T. 27 N., R. 15 W. 15 ³ \$23 1917 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Ridge, brs. N.40° E. and S.40° W. Desc. gradually. 52.40 Intersect Hualpai Indian Reservation Boundary, 9.07 chs. S.40° E of the 24½ mile cor., which is a stone, 12 X 3 X 6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor-General. 61.30 At the point of intersection, set and iron post, 3 ft. long, 2 ins dism., 8 ins. in the ground, in a mound of stone, for closing cor. of secs. 14, and 23, marked on brass T27N R15W \ S14 CC -From which $^{\rm a}$ pinion,8 ins. diam ., brs. N.66½° W., 263 lks. dist., marked CC T27N R15W S14 BT. A pinion , 10 ins. diam., brs. S.40½° E., 217 lks. dist., marked CC T27N R15W S23 3T. Land, mountainous. Soil, rocky, 4th rate. Timber, ceder and pinion. Undergrowth, scrub oak and cat claw. From the cor.of secs.14,15,22 and 23, N.89° 50' W., on a random line, bet. secs. 15 and 22. Set temp. 40.00 sec. cor. Intersect N. and S. line, 2 lks. N. of the cor. of secs. 15, 16, 21 and 22, which is an iron post, properly set, 80.20 marked and witnessed as described by the Surveyor-General. Thence S.89° 51' E., on a true line, bet. secs. 15 and 22. Over rolling land, through scattering undergrowth. Desc. 25 ft. 1.90 Four wire fence. brs. NE. and SN. Wash, 50 lks. wide, 4 ft. deep, course S.50° W. Asc. 25 15.00 ft. 25.00 Road, brs. NE. and SW. to Hackberry. Thence over gently rolling land. Pipe line, brs. NE. and SW. 27.70 39.00 Leave gently rolling land, brs. NE. and S.80° E. 450 ft. 40.10 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 3 sec. cor., marked on brass cap 3 S15 S22 1917 And raise a mound of stone, 2 ft. base, 12 ft. high. N. of cor. Spur, slopes W. Desc. Head of gulch, course N.70° W. Asc. 180 ft. The cor. of secs. 14, 15, 22 and 23. 69.30 75.60 80.20 Land, rolling and mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, cat claw and scrub oak.

```
Subdivision of Part of T. 27 N., R. 15 W.
    16
                        It being impracticable to chain measurement on sec. dine, in bet. secs. 14 and 15, it is the mar. It is a constant. It is the mar. It is a constant. It is a
Chains.
                        Desc.
                        Gulch, course W. Desc. 135 ft. Gulch, course W. Desc. 230 ft.
     1.00
                                                                                Asc.
     2.00
  19.50
20.00
                                                                                Asc.
                        Fence, brs. E. and W. East 6.88 chs.
  36.40
  40.00
                        Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1 sec. cor., marked on brass cap
                                                                                         S15 S14
                                  And raise a mound of stone, 2 ft. base, 1 ft. high, W.
                                  of cor.
                         Thence
                        N.0° 1' W., on true line, bet. secs. 14 and 15. Ranch house, brs. W. 1.50 chs. dist.
   47.50
48.80
                        Fence, brs. N.70° E. and S.70° W. Fence, brs. N.40° E., 50 lks.; thence NW. Hen house, brs. W. 20 lks. dist.
   49.70
   50.00
                        Fence, brs. NW. and SE.
Road, brs. SW. to Hackberry.
  51.00
   51.40
                         Wash, 40 lks. wide, 2 ft. deep, course S.70° W. Asc. 335
   52.60
                         Intersect Hualpai Indian Reservation Boundary, 4.98 chs.
   73.57
                                  N.39° 54' W. of the 23 mile cor., which is a limestone,
                         6 X 10 X 6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor-General.

At the point of intersection, set an iron post, 3 ft. long,
                                  2 ins. diam., in a mound of stone, for closing cor. of secs. 14 and 15, marked on brass cap
                                                                              T27NR15W
                                                                                        CC
                                                                                  1917
                                  And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, W
                                  of cor.
                         Land, mountainous and rolling.
                         Soil, rocky, 4th rate.
                          Timber, none.
                         Undergrowth, scrub oak and cat claw.
                                                                                                                                                                            S.F.W.
                         From the cor. of secs. 15, 16, 21 and 22, which is an iron post, properly set, marked and witnessed as described
                         by the Surveyor-General,
N.O° 2' W., bet. secs. 15 and 16.
Over mountainous land, through scattering timber and under
                                   growth.
                         Asc. 385 ft. Wash, 50 lks. wide, 3 ft. deep, course S.40° E.
    29.72
                                                                                                                                                                                   Continue
                                   ascent.
                          Set an iron post, 3 ft. long, 1 in. diam., in a mound of
    40.00
```

stone, for 1 sec. cor., marked on brass cap

FLAG

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Subdivision of Part of T. 27 N., R. 15 W.
                                                                                                                                      171
 Chains
                      And raise a mound of stone, 3\frac{1}{2} ft. base, 3 ft. high, w
                      of cor.
                I triangulate to a point on cliffs as follows:
                      Set a flag ahead on line, from which a flag set 40.48 chs. W. of the cor. of secs. 15, 16, 21 and 22, brs. S.27° 58\frac{1}{2}' W., The distance triangulated is given as
                      follows:
                        40.48
sin. 28 2
                                                                    \frac{X}{\sin \cdot 62^{\circ}} 1\frac{1}{2}, or, by logarithms,
                                    log. 40,48
                                                                             = 1.607241
                              log. sin. 62° 1½'
                                                                           = 9.946036
= 0.328272
                          colog. sin. 28° 3'
                                                                                   1.881549 =
                                                                                                            76.13 chs.
              Top of cliff, 100 ft. high, brs. E. and W., 1700 ft. above the cor. of secs. 15, 16, 21 and 22. Asc.

Divide, brs. N.70° W. and S.70° E. Desc. 40 ft.

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 9, 10, 15 and 16, marked on brass cap
 76.13
 77.31
                                                           T27N R15W
S:9 S10
S16 S15
                                                                  1917
                     From which
                     A pinion pine, 7 ins. dism., brs. N.47\frac{3}{4}° E., 44 lks. dist., marked T27N R15W S10 BT. A pinion pine, 8 ins. dism., brs. S.11\frac{1}{2}° E., 29 lks. dist., marked T27N R15W S15 BT.
                    A juniper, 11 ins. diam., brs. S.50° W., 64 lks. dist. marked T27N R15W S16 BT.

A pinion pine, 5 ins. diam., brs. N.67½° W., 69 lks. dist., marked T27N R15W S9 BT.
               Land, mountainous.
               Soil, gravelly and rocky, 4th rate. Timber, scattering pinion pine and juniper.
               Undergrowth, cat claw, cactus and scrub oak.
                         ه . د ه
             East on a true line, bet. secs. 10 and 15. Over high, rolling land, through scattering timber and
                     undergrowth.
              Asc. 20 ft.
Desc. 50 ft.
Asc. 20 ft.
3.56
12.75
14.93
19.93
              Ridge, brs. N.50° E. and S.50° W. Thence along S. slope. Ridge, brs. N.50° W. and S.50° E. Thence along N. slope. Set an iron post, 3 ft. long, 1 in. diam., in a mound of
40.00
                     stone, for 1/4 sec. cor., marked on brass cap
                                                             1 SlO
4 Sl5
             A pinion pine, 9 ins. dism., brs. N.661° E., 72 lks. dist., marked #S10 BT.
A pinion pine, 8 ins. dism., brs. S.31° E., 98 lks. dist., marked #S15 BT.

Desc. 165 ft.
                     From which
52.10
              Asc.
```

18 Subdivision of Chains. Ridge, brs.N.60° E. and S.75° W. Asc. 430 ft. 56.71 74.94 Intersect Hualpai Indian Reservation Boundary, 13.48 chs. N.39° 54' W. of the 23 mile cor., which is a stone, hereinbefore described.

At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, in a mound of stone, for closing cor. of secs. 10 and 15, marked on brass cap T27N R15W **75** S10 CC -And raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Land, mountainous and rolling. Soil, rocky, 4th rate. Timber, pinion pine and juniper. Undergrowth, scrub oak and manzanita. From the cor.of secs.9,10,15 and 16, N.0° 2' W., on a true line, bet. secs. 9 and 10. Over mountainous land, through scattering timber and under-Desc. 110 ft. Ravine, course E. Asc. 200 ft.

Spur, slopes N.70° E. Desc. 225 ft.

Draw, course \$.70° E. Asc. 55 ft.

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, for \$\frac{1}{2}\$ sec. cor., marked on \$\frac{1}{2}\$ 7.51 19.89 39.13 40.00 brass cap A pinion pine, 12 ins. diam., brs. S.63° E., 38 lks. dist., marked \$\$10 BT. 200
A pinion pine, 10 ins. diam., brs. N.48° W., 55 lks. dist., marked \$\$9 BT.

Spur, slopes S.70° E. Desc. 70 ft.
Ravine; course S.70° E. Asc. 105 ft.

Spur, slopes S.60° E. Desc. 195 ft.

Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, in a mound of stone, for cor. of secs. 3, 4, 9 and 10, marked on brass cap From which 43.83 48.42 58.57 T27N R15W S 4 S 3 S 9 S10 1917 From which A pinion pine, 8 ins. diam., bidist., marked T27N R15W S3 BT. brs. N.463°. E., 10 lks. A pinion pine, 12 ins. diam., brs. S.41 $\frac{1}{4}$ ° E., 22 lks. dist., marked T27N R15W S10 BT. A pinion pine, 10 ins. diam., brs. S.46° 10' W., 56 lks. dist., marked T27N R15W S9 BT.
A pinion pine, 11 ins. diam., brs. N.48°10' W., 28 lks. dist., marked T27N R15W S4 BT. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering pinion pine and juniper. Undergrowth, scrub oak.

Subdivision of Part of T. 27 N., R. 15 W.

19

7.55

Chains.

East on a true line, bet. secs. 3 and 10. Over rolling land, through dense timber and undergrowth. Desc. 60 ft.

Intersect Hualpai Indian Reservation Boundary, 1.05 chs. 3.40° 2' E., of the 22 mile cor., which is a limestone, hereinbefore described.

At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for closing cor. of secs. 3 and 10, marked on brass cap

From which A pinion pine, 5 ins. diam. brs. S.84½° W., 40 lks. dist., marked CC T27N R15W S10 BT.

A pinion pine, 8 ins. diam., brs. S.75½° V., 32 lks. dist., marked CC T27N R15W S10 BT.

Land, rolling.

Soil, rocky, 4th rate.

Timber, dense pinion pine and juniper. Undergrowth, scrub oak.

From the cor.of secs.3,4, 9 and 10, N.0° 2' W., on a true line, bet. secs. 3 and 4. Over rolling land, through scattering undergrowth and dense timber. Asc. 90 ft.

4 • 47 9.04 Ridge, brs. NE. and SW. Desc. 40 ft. Intersect Hualpai Indian Reservation Boundary, 10.78 chs. N.40° 2' W. of the 22 mile cor., which is a limestone, hereinbefore described.

At the point of intersection, set an iron post, 3 ft. long, 2 ins. dism., 10 ins. in the ground, in a mound of stone, for closing cor. of secs. 3 and 4, marked on brass cap

From which

A pinion pine, 4 ins. diam., brs. S.94° E., 43 lks. dist., marked CC T27N R15W S3 BT.
A pinion pine, 6 ins. diam., brs. S.292° W., 147 lks. dist., marked CC T27N R15W S4 BT.

Land, rolling.

Soil, rocky, 4th rate.

Timber, dense pinion pine and juniper.

Undergrowth, scrub oak.

From the cor. of secs. 16, 17, 20 and 21, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General, N.0° 3' W., bet. secs. 16 and 17.

Preparatory to triangulating a portion of this mile, I set a flag ahead on the cliffs. Then I chain to the position for the ½ sec. cor., from the cor. of secs. 16, 17, 20 and 21, as follows:

Over mountainous land, through scattering timber and under-

growth.

```
20
                           Supdivision of Part of T. 27 N.
          Chains.
                        Asc. 695 ft.
                       Spur. slopes S.65° W. Desc.
            39•97
                       Set an iron post, 3 ft. long, 1 in. diam., 8 ins. diam., in a mound of stone, for \( \frac{1}{4} \) sec. cor., marked on brass
           40.00
                                                          s17 s16
                                                                1917
                             And raise a mound of stone, 3 ft. base, 2 ft. high, W.
                             of cor.
                       From the flag point on the cliffs, a flag set 80.34 chs. 

N.89° 52' W. of the cor. of secs. 16, 17, 20 and 21, brs. S.49° 39½' W. The distance triangulated is given
             SEE COR
                       $ 80.34
$ sin. 49° 42½.
                                                                     \frac{X}{\sin \cdot 40^{\circ} 28^{\circ}} or, by logarithms,
                                           log. 80.34
log. sin. 40°28
                                                                                     1.904932
                                                                                     9.812322
0.117611
                       SEC COM
40. 28.30"
                                     colog. sin. 49°42\fill
                                                                                     1.834865 = log. 68.37
      BASE
                             chs.
                        The approximate topography from the 2 sec. cor. follows:
                        Ravine, course S.60° W...
Foot of cliff, 100.ft. high, brs. N.60° W. and S.40° E.
            47.00
            49.00
                             Asc.
                        Triangulation point, 1430.ft. above \frac{1}{4} sec. cor. Asc. 60
            68.37
                        Ridge, brs. E. and W. Desc. 25 ft.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, in a mound of stone, for cor. of secs. 8, 9, 10
            74.32
                              and 17, marked on brass cap
                                                             T27N R15W
S 8 S 9
                                                               S17 S16
                                                                  1917
                              From which
                              A pinion pine, 8 ins. diam., brs. N. 42\frac{1}{2}° E., 43 lks. dist.,
                              marked T27N R15W S9 BT.
                              A pinion pine, 12 ins. diam., b dist., marked T27N R15W S16 BT.
                                                                                brs. S.74° E., 63 lks.
                             A pinion pine, 6 ins. diam., brs. S.67° W., 50 lks. dist., marked T27N R15W S17 BT.

A pinion pine, 6 ins. diam., brs. N.15½° W., 26 lks. dist., marked T27N R15W S8 BT.
                         Land, mountainous.
                         Soil, rocky, 4th rate.
                         Timber, pinion pine and juniper.
                         Undergrowth, scrub oak.
                        S.89° 51' E., on a random line, bet. secs. 9 and 16.

Set temp. witness cor. to fise. sec. cor.

From this point, a flag set at the cor. of sects. 3 cor.

9, 10, 15 and 16, brs. S.89° 51' E. Also the cor. of secs. 15, 16, 21 and 22, brs. S.35° 44' E. The distance triangulated is given as follows:
             22.10
             22.28
    Ran Sec Line 5.89°51 E
                                 \sin \frac{54^{\circ}7!}{54^{\circ}7!} = \frac{42!}{\sin \frac{35^{\circ}}{35!}} ar, by logarithms,
                                         80.00
```

DOOK 3257

	0201	
johalms.	Subdivision of Part of T. 27 H., R. 15 W. 21	
	log. 80.00 = 1.903090 log. sin. 35°42'= 9.766072 colog. sin. 54°7' = 0.091401	,
79.90	1.760563 = log. 57.62, which added to 22.28 chs., makes Fall 10 lks. N. of the cor. of secs. 9, 10, 15 and 16,	
· <u></u>	Thence N.89° 47' W., on a true line, bet. secs. 9 and 16. Over-mountainous land, through scattering timber & undergrame.	r th
1.90	Desc. Canyon, course 5.20° W. Asc.	011
29.90 39.95	Spur, slopes S.20° E. Desc. The true point for ½ sec. cor. falls on inaccessible cliffs, where it is impossible to set cor.	
49.90 5 7. 80	Canyon, course 5.20° E. Asc. Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for witness cor. to - sec. cor., marked on brass cap	
	1 S 9 W C 1917	
	And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.	
61.50 71.40 79.90	of cor. Cliffs, brs. NE. and SW. Continue ascent. Ridge, brs. N. and S. Desc. 205 ft. The cor. of secs. 8, 9, 16 and 17. Land, mountainous.	
	Soil, rocky, 4th rate. Timber, pinion pine and juniper. Undergrowth, scrub oak cactus.	
4.21 24.58 34.00 40.00	N.0° 3' W., bet. secs. 8 and 9. Over mountainous land, through dense timber and undergrowth. Asc. 40 ft. Spur, slopes W. Desc. 205 ft. Wash, 20 lks. wide, course W. Asc. gradually. Spur, slopes W. Desc. Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, for 4 sec. cor., marked on brass cap S 8 S 9 1917 From which A pinion pine, 4 ins. diam., brs. S.13½° E., 156 lks: dist., marked 489 3T. A pinion pine, 8 ins. diam., brs. S.32° W., 110 lks. dist., marked 488 3T. Thence over gently rolling land. Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the	
	ground, in a mound of stone, for cor. of secs. 4.5, 8 and 9, marked on brass cap	
	s 5 s 4 s 8 s 9 1917	
	From which A pinion pine, 4 ins. diam., brs. N.69° E., 72 lks. dist., marked T27N R15N S4 3T. A pinion pine, 8 ins. diam., brs. S.7½° E., 66 lks. dist., marked T27N R15W S9 BT.	-
	A pinion pine, 12 ins. diam., brs. S.61% W., 89 lks.	

22	Subdivision of Part of W. 27 W. R. 15 W.
Chains.	dist., marked T27H R15W S8 BT. A juniper, 24 ins. diam., brs. N.654° W., 48 lks. dist., marked T27H R15W S5 BT. Land, mountainous and gently rolling. Soil, rocky, 4th rate. Timber, pinion pine and juniper. Undergrowth, scrub oakand sagebrysh.
Shows Rive	
40.00 7 9.71	S.39° 47' E., on a random line, bet. secs. 4 and 9. Set temp. ½ sec. cor. Intersect N. and S. line, 23 lks. S. of the cor. of secs. 3, 4, 9 and 10.
	Thence N.89° 57' W. on a true line, bet. secs. 4 and 9. Over mountainous land, through dense timber and undergrowth.
6.73 20.77 39.85 ¹ / ₂	Asc. 75 ft. Spur, slopes SW. Desc. 210 ft. Draw, course NW. Thence over gently rolling land.
	1 S 4 S 9 1917
42.90 61.80 79.71	From which A pinion pine, 5 ins. diam., brs. N.43\(\frac{1}{2}\) W., 46 lks. dist., marked \(\frac{1}{2}\) S4 BT. A pinion pine, 4 ins. diam., brs. S.17\(\frac{1}{2}\) S., 32 lks. dist., marked \(\frac{1}{2}\) S9 BT. Wash, 50 lks. wide, course N. Wash, 20 lks. wide, course N.
j	
40.00	N.0° 3' W., on a random line, bet. secs. 4 and 5. Set temp. 4 sec. cor. Intersect N. bdy. of Tp., 39 lks. E. of the cor. of secs. 4, 5, 4 and 5, which is an iron post, described in Book "A.". Thence
10.50 25.85 31.75 40.82	S.0° 20' E., on a true line, bet. secs. A and 5. Over rolling land, through dense timber and undergrowth. Asc. 45 ft. Desc. gradually. Wash, 30 lks. wide, course E. Asc. 20 ft. Spur, slopes NE' Desc. 40 ft. Set an iron post, 3 ft. long, l in. diam., 6 ins. in the ground, in a mound of stone, for \(\frac{1}{2} \) sec. cor., marked o on brass cap
	s 5 s 4 1917
	From which A juniper, 8 ins. diam., brs. N.66% E., 134 lks. dist., marked 4S4 BT. A pinion pine, 5 ins. diam., brs. N.33° W., 47 lks. dist., marked 4S5 BT. Cor falls in draw, course NE. Asc. 50 ft.
48.30	

ECCK 3257

```
Subdivision of Part of T. 27 N., R. 15 W.
           Spur, slopes NE. Desc. 25 ft.
Wash, 200ks wide, Ourse NE. ft.
           The cor. of secs. 4, 5, 8 and 9.
           Land, rolling.
           Soil, rocky, 4th rate.
           Timber, dense pinion pine and juniper.
           Undergrowth, scrub oak and sagebrush.
           From the cor. of secs. 16, 17, 20 and 21, hereinbefore
               described.
           West on sectional correction line, bet. secs. 17 and 20.
           Over level land, through scattering undergrowth.
15.59
24.80
           Wash, 25 lks. wide, course S.20° W.
Wash, 20 lks. wide, course S.30° W.
Set an iron post, 3 ft. long, l'in. diam., on bed rock, in
40.00
               a mound of stone, for \frac{1}{4} sec. cor., marked on brass cap
               And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, N.
               of cor.
         Wash, 40 lks. wide, 6 ins. deep, course S.20° E. Leave level land, brs. N.20° E. and S.30° E. Asc. 240 ft. Spur, slopes S.20° W. Desc. 105 ft.
41.50
49 • 09
61,15
          Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 17, 18, 19 and 20, marked on brass cap
80.00
                                          T27N R15W
S18 S17
S19 S20
                                               1917
               And raise a mound of stone, 3 ft. base, 2 ft. high, W.
          of cor. Land, level and rolling.
          Soil, rocky, 4th rate.
          Timber, none.
          Undergrowth, cat claw.
          West on sectional correction line, bet. secs. 18 and 19.
          Over rolling land, through scattering undergrowth.
          Desc. 30 ft.
4.98
11.10
          Wash, 1 ch. wide, course S.50° W. Asc. 10 ft.
          Desc. 40 ft.

Wash, 15 lks. wide, course S.40° W. Asc. 160 ft.

Spur, slopes S.35° W. Desc. 395 ft.

Set an iron post, 3 ft. long, 1 in. dism., 18 ins. in the ground, in a mound of stone, for 4 sec. cor., marked on
21.34
32.74
40.00
               brass cap
               And raise a mound of stone, 3 ft. base, 2 ft. high,
               of cor.
49.27
          Foot of descent, brs. N.30° E. and S.30° W.
                                                                               Thence over
               level land.
          Intersect W. bdy. of Tp., 1.08 chs. S.0° 9' W. of the orig. cor. of secs. 13, 18, 19 and 24, described in Book "A". At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs.
79.20
               18 and 19, marked on brass cap
```

204

24		Subdivision of Part of T. 27 N. R. 15 W.
	Chains.	
		T27N R16W R15W S18 1917
		And raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor. Land, rolling. Soil, rocky, 4th rate. No timber.
	i in the second	Undergrowth, cat claw.
•	40.00 7 9. 5 5	From the cor. of secs. 17, 18, 19 and 20, S.0° 3' E., on a random line, bet. secs. 19 and 20. Set temp. 2 sec. cor. Fall 16 lks. E. of the cor. of secs. 19, 20, 29 and 30, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General.
№ 1	3.20 39.55	Thence N.0° 4' E., on a true line, bet. secs. 19 and 20. Over slightly rolling land, through scattering undergrowth. Wash, 30 lks. wide, 2 ft. deep, course S.60° W. Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, in a mound of stone, for ½ sec. cor. marked on brass cap
		S1 9 S2 0
		1917
		And raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	43.00	Leave slightly rolling land, brs. N.60° W. and S.60° E. Asc. 190 ft.
	58.83 73.78 79.55	Spur, slopes N.30° W. Desc. 140 ft. Wash, 40 lks. wide, o ft. deep, course S.30° W. Asc. 30 ft. The cor. of secs. 17, 18, 19 and 20. Land, slightly rolling and mountainous. Soil, rocky, 4th rate. No timber.
		Undergrowth, Spanish dagger and cat claw.
	5.00 9.28 18.84 23.85 28.33 40.00	N.0° 3' W., bet. secs. 17 and 18. Over level land, through scattering undergrowth. Wash, 100 lks. wide, 5 ft. deep, course S.60° W. Leave level land, brs. N.60° E. and S.60° W. Asc. 450 ft. Spur, slopes S.40° W. Desc. Asc. 125 ft. Spur, slopes S.70° W. Desc. 140 ft. Set an iron post, 3 ft. long, 1 in. diam., on bed rock, in a mound of stone, for 2 sec. cor., marked on brass cap
		\$18 \(\) \$17 1917
		And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W .
	42.99	of cor. Ravine, course S.40° W. Asc. 700 ft. Spur, slopes S.60° W. Desc. 35 ft. Ravine, course S.50° W. Asc. 565 ft.
	80.00	

```
Subdivision of Part of T. 27 N.
                                                                                  15 W
Chains.
                  marked on brass cap
                                                  T27N·R15W
S·7|S 8
S18|S17
                                                        1917
                  From which
             A pinion pine, 8 ins. diam., brs. N.43%° E., 248 lks. dist., marked T27N R15% S8 37.

No other trees within limits. Raise a mound of stone, 3
             ft. base, 3\frac{1}{2} ft. high, W. of cor. Land, mountainous.
             Soil, rocky, 4th rate.
             No timber.
             Undergrowth, cat claw.
             From the cor. of secs. 8, 9, 16 and 17, West on a random line, bet. secs. 8 and 17.
             Set temp. 2 sec. cor.

Offset N. 1.36 chs., and continue West.

From this point on offset line, I triangulate as follows:
 40.00
 46.26
 54.27
                  The cor. of secs. 7, 8, 17 and 18 brs. S.87° 14' W. The cor. of secs. 17, 18, 19 and 20 brs. S.17° 26' \mathbb{W}.
             The distance triangulated is gimen as follows:
                                                                                      SEC COR SET 14 W. 8.011 2 54.27

256 | Ran. Sec
                          80.00
                                                = \frac{X}{\sin \cdot 17^{\circ} \cdot 29!}, \text{ or }
                                                                                                         Ran. Sec Line WEST
                    sin. 69° 48'
                             log. 80.00 = 1.903990
log. sin. 17° 29'= 9.477741
colog. sin. 69° 48'= 0.027569
                  which added to 54.27 chs., makes the total distance
             for the mile
The falling is found from the bearing of S.87° 14' W.; for
 79.88
             25.61 chs. to be .1.24 = 1.36, or 12 lks. S. I return to the cor. of secs. 8, 9, 16 and 17
             Thence
             N.89° 55' W., on a true line, bet. secs. 8 and 17. Over rolling land, through dense timber and undergrowth. Desc. gradually, 65 ft.
22.51
36.50
39.94
             Wash, 50 lks. wide, course S. Asc. 50 ft.
             Desc.
             Set an iron post, 3 ft. long, 1 in. dism., in a mound of stone, for 4 sec. cor., marked on brass cap
               From which
             A pinion pine, 6 ins. diam., brs. N.66½° E., 98 lks. dist., marked $\frac{1}{2}$8 BT.

A pinion pine, 6 ins. diam., brs. S.67° E., 131 lks. dist., marked $\frac{1}{2}$S17 BT.

Edge of cliffs, br. N.80° W. and S.80° E. Desc. 135 ft.

The cor. of secs. 7, 8, 17 and 18.
 46.26
 79.88
             Land, rolling and mountainous.
             Soil, rocky, 4th rate.
             Timber, dense pinion pine and juniper.
             Undergrowth, scrub oak and chemise.
```

```
26
                    Subdivision of Part of T. 27 N. R. 15 W
  chains.
               West on a random line, bet. secs. 7 and 18.

Set temp. 1 sec. cor.

Intersect W. bdy. of Tp., 5 lks. S. of the reestablished cor. of secs. 7 and 18, which is an iron post, described in Book "A."
   40.00
   79.07
               Thence
               S.89° 58' E., on a true line, bet. secs. 7 and 18. Over rolling land, through scattering undergrowth.
               Asc. 55 ft. Desc. 215 ft.
   12.15
               Ravine, course 5.60° W. Enter timber, brs. M.60° E.and S.60° W. Asc. 440 ft.

Spur, slopes N.20° W. Desc. 35 ft.

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
   26.50
   37.00
39.07
                    ground, in a mound of stone, for 1 sec. cor., marked on
                    brass cap
                    And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, N
                    of cor.
               Draw, course N.10° W. Asc. 680 ft.
   40.50
62.50
               Cliff, 40 ft. high, brs. N.20° E. and S.30° W. Continue
                    ascent.
              Spur, slopes S.20° W. Desc. 30 ft. The cor. of secs. 7, 8, 17 and 18.
   76.05
   79.07
               Land, mountainous.
               Soil, rocky, 4th rate.
               Timber, scattering pinion pine and juniper. Undergrowth, scrub oak and cat claw.
               N.0° 3' W., bet. secs. 7 and 8.
               Over rolling land, through dense timber andundergrowth.
               I triangulate as follows:
               Set a flag ahead on line, on edge of cliffs, br. SE. and NW., from which a flag set 11.04 chs. W. of the cor. of secs. 7, 8, 17 and 18 brs. S.51° 2' W. The distance
                    triangulated is given by
                        \frac{11.04}{\sin \cdot 51^{\circ} 5^{\circ}} =
                                                        x sin. 38° 58, or, by logarithms,
                              log. 11.04
log. sin. 38° 58'
colog. sin. 51° 5'
                                                                          = 1.042969
                                                                        = 9.798560
           TSEC COR.
                                                                          = 0.108987
                                                                              0.950516 = 10g. 8.92
     8.92
               Thence over rolling land.
   33.25
40.00
               Desc. 280 ft.
               Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, for 3 sec. cor., marked on
               A pinion pine, 9 ins. diam., brs. N.57%° E., 21 lks. dist., marked $88 BT.

A pinion pine, 8 ins. diam., brs. N.43° W., 35 lks. dist., marked $87 BT.

Wash, 80 lks. wide, course E. Asc. 155 ft.

Epar, slopes E. Desc. 20 ft.

Wash 40 lks. wide, course E. Asc. 50 ft.
                   From which
   47.34
62.17
               Wesh, 40 lks. wide, course E. Asc. 50 ft. Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the
   67.22
   80:00
                    ground, in a mound of stone, for cor. of secs. 5, 6, 7
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Subdivision of Part of T. 27 N., R. 15 W.
                                                                                           273
Chains.
               and 8, marked on brass cap
                                        T27N R15W
S 6 S 5
                                          s 7 s 8
                                            1917
               From which
               A juniper, 8 ins. diam., brs. 1.66\frac{1}{2}° E., 40 lks. dist.,
               marked T27N R15W S5 BT.
              A juniper, 6 ins. diam., brs. S.56° E., 9 lks. dist., marked T27N R15W S8 BT.
              A jumiper, 10 ins. diam., brs. S.65\frac{1}{2}° W., 100 lks. dist., marked T27N R15W S7 BT.
              A juniper, 4 ins. diam., brs. N.55½° W., 25 lks. dist., marked T27N R15W S6 BT.
          Land, rolling and mountainous.
          Soil, rocky, 4th rate.
          Undergrowth, cat claw and scrub oak.
          Timber, dense juniper and pinion pine,
          5.89^{\circ} 55 E. on a random line, bet. secs. 5 and 8.
          Set temp. * sec. cor. Intersect N. and S. line, 35 lks. S. of the cor. of secs.
 40.00
80.07
              4, 5, 8 and 9.
          Thence
          S.89° 50' W., on a true line, bet. secs. 5 and 8. Over rolling and mountainous land, through dense timber
              and undergrowth.
          Desc.
  4.00
          Wash, 20 lks. wide, course NE. Asc. 175 ft.
          Spur, slopes NE. Desc. gradually.
Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, in a mound of stone, for 4 sec. cor., marked on
16.49
40.03층
               brass cap
                                         1 S 5
4 S 8
                                           1917
              From which
          A pinion pine, 5 ins. diam., brs. N.254° E., 8 lks. dist., marked 485 BT.
A pinion pine, 6 ins. diam., brs. S.484° W., 80 lks. dist., marked 488 BT.

Wash, 30 lks. wide, course S. Asc. 90 ft.
49.38
52.40
          Desc.
          Wash, course SE. Asc. 135 ft. The cor. of secs. 5, 6, 7 and 8.
67.00
80.07
          Land, rolling and mountainous.
          Soil, rocky, 4th rate.
          Timber, dense pinion pine and juniper.
          Undergrowth, scrub oak and sagebrush.
         N.89° 58' W., on a tandom line, bet. secs. 6 and 7.
          Set temp. 4sec. cor.
Intersect W. bdy. of Tp., 9 lks. N. of the cor. of secs.
6 and 7, which is an iron post, described in Book"A.".
40.00
79.22
          Thence
          N.89^{\circ} 58' E., on a true line, bet. secs. 6 and 7.
          Over mountainous land, through dense timber and undergrowth.
          Desc. 185 ft.
Wash, 20 lks wide, course NE. Asc.
Desc. 65 ft.
9.50
10.20
          Wash, 30 1ks. wide, course N. Asc. 75 ft.
13.80
```

28,

`	Subdivision of Part of T. 27 N., R. 15 W.
Chains. 16.65 20.70 31.70	Spur, slopes N. Desc. 50 ft. Wash, 20 lks. wide, course N. Asc. Desc. 145 ft.
32.20 39.22	Wash, 20 lks. wide, course M. Asc. 230 ft. Set an iron post, 3 ft. long, l in. diam., 6 ins. in the ground, in a mound of stone, for 2 sec. cor., marked on
	brass cap
<u>-</u> *	From which A pinion pine, 4 ins. diam., brs. N.10½° W., 92 lks. dist. marked \$56 BT.
45.00 79.22	A pinion pine, 4 ins. diam., brs. S.30° E., 54 lks. dist., marked 4S7 BT. Ridge, brs. H. and S. Desc. gradually. The cor. of secs. 5, 6, 7 and 8. Land, rolling and mountainous. Soil, rocky, 4th rate. Timber, dense pinion pine and juniper. Undergrowth, scrub oak and manzanita.
40.00 80.81	N.0° 3' W, on a random line, bet. secs. 5 and 6. Set temp. 2 sec. cor. Intersect N. bdy. of Tp., 39 lks. E. of the cor. of secs. 7, 7, 5 and 6, which is an iron post, described in Book "A."
11.40 28.85 36.10 40.81	S.0° 20' E., on a true line, bet. secs. 5 and 6. Over mountainous land, through scattering undergrowth and dense timber. Asc. 150 ft. Spur, slopes NE. Desc. 65 ft. Wash, 30 lks. wide, course E. Asc. 40 ft. Spur, slopes E. Desc. 60 ft. Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground, in a mound of stone, for ½ sec. cor., marked on brass cap
	s 6 s 5
	1917
	From which A pinion pine, 4 ins. diam., brs. N.843°E., 67 lks. dist., marked 455 37. A pinion pine, 5 ins. diam., brs. S.32° W., 46 lks.
52.10 53.60 80.81	dist., marked 150 BT. Wash, 50 lks. wide, course NE. Asc. 195 ft. Fence, brs. NE. and SW. The cor. of secs. 5, 6, 7 and 8.
	Soil, rocky, 4th rate. Timber, dense pinion pine and juniper.
	Undergrowth, scrub oak and manzanita. J.C.H.
1	

boom 8257

Subdivision of Part of T. 27 N., R. 15 W. General Description.

Chains.

This township is rough mountainous land and cliffs. The high parts are timbered with scrub juniper and pinion pine, and the lower parts are barren except for a dense growth of cactus and a sparse growth of grass. The Grand Wash Cliffs enter sec. 7 and bear south east, leaving in sec. 35. The line of cliffs is broken in secs. 14 and 15 by Clay Springs Canyon, which drains to the south west. In the NW. 1 of sec. 15 is W. F. Ground's dwelling house and corrals. Clay Springs is developed water and furnishes water by pipe line to Music Mountain Mine, in sec. 17, T. 26 N., R. 15 W. A road from Clay Springs ranch house runs north east into Hualpai Indian Reservation and south west to Hackberry. W. F. Grounds is the only settler in the township.

8267

Completion of Subdivision of T. 27 N. 31 Chains. Survey executed by lacous Hooper. Us. Transitman on dates shown on page 19 hereof using Young & sons light mountain transit No. 0469 described in Book "A." Very Recent and repeated that the of my instrument on a meridian established by 10 servations on Polaris at 10 ngation demonstrate that the solar apparatus is in good adjustment. ripeeca to the completion of the subdivision of He, He Albah. From the cor. of secs. 13, 14, 23 and 24, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General, N.0° 1' W., bet. secs. 13 and 14.

Over gently rolling land, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \(\frac{1}{4} \) sec. cor., marked on brass cap 40.00 S14 S13 1917 And raise a mound of stone, 3 ft. base, 2 ft. high, W. Wash, 1 ch. wide, 1 ft. deep, course S.10° E. Comes from N.30° E. Asc. 330 ft.

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, in a mound of stone, for witness cor. to cor. of 60.00 79.87 secs. 11, 12, 13 and 14, marked on brass cap T27N R16W W | C S11 | S12 S14|S13 1917 And raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. This witness cor. is set at the foot of a rock, 30 ft. high. 100 ft. long, ors. E. and $\mathbb{W}.$ The wrue point for cor. of secs. 11, 12, 13 and 14 falls 80.00 where it cannot be established. Land, gently rolling and mountainous. Soil, sandy and rocky, 4th rate. No timber. Undergrowth, cat claw and greasewood. From the true point for cor. of secs. 11, 12, 13 and 14, 5.89° 54' E., on a random line, bet. secs. 12 and 13. Set temp. $\frac{1}{4}$ sec. cor. 40.00 Intersect E. bdy. of Tp., 11 1ks. S. of the cor. of secs.
12, and 13, which is an iron post, properly set,
marked and witnessed as described by the Surveyor-80.35 General. Changed from a cor. of 4 secs. to cor. of 2 secs. as described in Book "A." Thence, N.89° 59' W., on a true line, bet. secs. 12 and 13. Over mountainous land, through scattering undergrowth. Desc. 110 ft. Ravine, course S. Asc. 160 ft. Spur, slopes S.20° E. Desc. 110 ft. 5.55 12.25 Ravine, course S.20° E. Asc. 265 ft.

Spur, slopes S.10° W. Desc. 340 ft.

Set an iron post, 3 ft. long, 1 in. diam., 1 0 ins. in the ground, in a mound of stone, for 4 sec. cor., marked on 21.90 35.00 brass cap **S13**

```
Completion of Subdivision of T. 27 N., R. 16 W.
             Chains.
                              And raise a mound of stone, 3\frac{1}{6} ft. base, 2 ft. high, N
                         Draw, course S.20° W. Asc. 150 ft.
              46.70
                         Spur, slopes S.50° W. Desc. 600 ft.
Revine, course S.50° W. Asc. 135 ft.
The true point for cor. of secs.11,12, 13 and 14.
              54.00
              80.35
                         -and, mountainous.
                         Soil. very rocky, huge boulders, 4th rate.
                         No timber.
                         Undergrowth, cat claw.
                         From the true point for cor. of secs. 11, 12, 13 and 14, N.O° 1' W., bet. secs. 11 and 12.
                          Over mountainous land, through scattering undergrowth.
                          Asc. 270 ft.
                         Spur, slopes S.70° W. Desc. 55 ft.
Gulch, course W.70° W. Asc. 865 ft.
Ravine, course S.40° W. Continue ascent.
Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, for ½ sec.ccor., marked on
              8.45
14.28
              32.15
              40.00
                              brass cap
                                                           S11 S12
                                                              1917
                               And raise a mound of stone, 3 ft. base, 2 ft. high, W.
                         Ridge, brs. M.65° E. and S.60° W. Desc. 170 ft.
Revine, course N.60° W. Asc. 190 ft.
Spur, slopes N.70° W. Desc. 160 ft.
Set an iron post, 3 ft. long 2 ins. diam., 12 ins. in the ground, in a mound of stone, for cor. of secs. 1, 2,
              49.56
53.65
72.13
               80.00
                              and 12, marked on brass cap
                                                           T27N R16W
S 2 S 1
S11 S12
                                                                1917
                              And raise a mound of stone, 3 ft. base, 2 ft. high. T.
                               of cor.
                          Land, mountainous.
                          Soil, rocky, 4th rate.
                          No timber.
                          Undergrowth, scrub oak and cat claw.
                          S.89° 59' E., on a random line, bet. secs. 1 and 12. Set temp. 4 sec. cor.
               40.00
                          Set a flag shead on line, and measure a base, S.O° l' W.,
               47.95
                           7.13 chs., from the S. end of which, the flag brs.
N.71° 25' E. The distance is given by tan. 71° 24'
X 7.13 = 2.97144 X 7.13 = 21.19 chs., which added to
              18.36
M 31.24 N.71. 32. E.
                          47.95 chs., gives
Continue S.89° 59' E. on random line.
               69.14
                          Intersect E. bdy. of Tp., 19 lks. H. of the cor. of secs. l and 12, which is an iron post, described in Book "A."
               79.92
                          Thence
                          N.89° 51' W., on a true line, bet. secs. 1 and 12.
                          Over mountainous land, through scattering timber and under-
                               growth.
                          Asc. 50 ft.
                          Ridge, brs. N.20° E. and S.20° W. Desc. 780 ft. Top of cliff, 125 ft. high, brs. N.20° E. and S.20° W. Foot of cliff, brs.N.20° E. and S.20° W.
                 5.65
               10.80
               12.00
                          Ravine, course S.30° W. Asc. 165 ft.
               36.55
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201K 3257

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Completion of Subdivision of T. 27 N.
Chsins.
             Set a red sandstone, 30 X 14 X 6 ins., 12 ins. in the ground, on bed rock, in a mound of stone, for \frac{1}{4} sec. cor., marked \frac{1}{4} on N. face; from which
 39.96
                   A pinion, 9 ins. diam., brs. N.45° E., 47 lks. dist.,
                   marked 3$1 BT.
                   A pinion, 12 ins. diam., brs. S.82° E., 114 lks. dist.
                   marked $\frac{1}{4}$12 BT.
             Spur, slopes S.30° W. Desc. 500 ft. Cliff, 25 ft. high, brs. H. and S. Continue descent. The cor. of secs. 1, 2, 11 and 12.
 59.20
71.00
79.92
             Land, mountainous.
             Soil, rocky, 4th rate. Timber, scattering juniper and pinion.
             Undergrowth, oak and manzanita.
             N.0° 1' W., on a random line, bet. secs. 1 and 2.
Set temp. 2 soc.ccor.
Intersect N. abdy. of Tp., 35 lks. E. of the cor. of secs.
1, 2, 35 and 36, which is an iron post, described in
Book "A.".
 40.00
79.53
             Thence
             S.0º 16' E., on a true line, bet. secs. 1 and 2. Over mountainous land, through scattering timber and under-
                  growth.
             Desc. 165 ft.
12.35
28.90
             Ravine, course S.60° W. Asc. 205 ft.
             Spur, slopes N.70° W. Desc. 240 ft.
Set aniron post, 3 ft. long, 1 in. diam., in a mound of stone, for 1 sec. cor., marked on brass cap
 39.53
                                                  S 2 S 1
                                                      1917
                  From which
                  A pinion pine, 8 ins. diam., brs. N.69° E., 25 lks. dist.,
                  marked 181 BT.
            A pinion pine, 6 ins. diam., brs. S.25° W., 102 lks. dist., marked \( \frac{1}{4}S2 \) BT.

Ravine, course S.70° W. Asc. 125 ft.

Spur, slopes S.60° E. Desc. 365 ft.

Leave scattering timber, brs. E. and W.

Ravine, course S.40° W. Asc. 25 ft.
48.25
51.25
53.70
61.40
63.90
76.80
             Desc. 175 ft.
            Ravine, course S.50° W. Asc. 45 ft. The cor. of secs. 1, 2, 11 and 12.
79 •53
             Land, mountainous.
             Soil, rocky, 4th rate.
             Timber, pinion and juniper.
             Undergrowth, scrub bak.
            From the cor. of secs. 14, 15, 22 and 23, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General,
            N.0° 1! W., bet. secs. 14 and 15.
Over level land, through scattering undergrowth.
Asc. 70 ft.
Desc.
25.00
33.05
34.53
            Ravine, course S.10° W. Asc. 1260 ft.
Set an iron post, 3 ft. long, 1 in. diam., in a mound of
40.00
                  stone, for 4 sec. cor., marked on brass cap
```

3	4 0 5 3 5 5 1	Completion of Subdivision of T. 27 N., R. 16 V.
	Chains.	S15 S14
	61.16 76.39 80.00	And raise a mound of stone, 3 ft. base, 2½ ft. high, "of cor. Spur, slopes S.20° W. Continue ascent. Spur, slopes N.70° W. Desc. 150 ft. Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, in a mound of stone, for cor. of secs. 10, 11, 14 and 15, marked on brass cap
		T27N R16W S10 S11 S15 S14 1917
		And raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor. Land, level and mountainous. Soil, sandy and rocky, 4th rate. No timber. Undergrowth, greasewood and cat claw.
-	40.00 80.13	S.89° 54' E., on a random line, bet. secs. 11 and 14. Set temp. ½ sec. cor. Intersect f. and S. line, 28 lks. S. of the true point for cor. of secs. 11, 12, 13 and 14. Thence
	7.55 21.10 21.30 25.20 35.20 39.15 40.06 \frac{1}{2}	S.89° 54'W., on a true line, bet. secs. 11 and 14. Over mountainous land, through scattering undergrowth. Asc. 100 ft. Spur, slopes S.20° W. Desc. 540 ft. Ravine, course S.40° W. Asc. Desc. 25 ft. Draw, course S.20° W. Thence over rolling land. Wash, 1 ch. wide, course S.50° M. Wash, 50 lks. wide, course S.60° E. Asc. 905 ft. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 4 sec. cor., marked on brass cap
		1 Sll 4 Sl4 1917
	75.55 80.13	And raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor. Spur, slopes N.10° W. Desc. 135 ft. The cor. of secs. 10, 11, 14 and 15. Land, mountainous and rolling. Soil, rocky, 4th rate. No timber. Undergrowth, scrub oak and cat claw.
		From the cor. of secs. 10, 11, 14 and 15, the cor. of secs. 9, 10, 15 and 16, which is an iron post, properly set, marked and witnessed as described by the Surveyor-General brs. N.89° 55' W. Also from a point 79.82 chs. N.0° 1' W. of the cor. of secs. 10, 11, 14 and 15, the cor. of secs. 9, 10, 15 and 16 brs. S.45° 6' W. The distance between cors. is given by:

= $\frac{x}{\sin 45^{\circ}}$ 7, or, by logarithms,

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Completion of Subdivision of T. 27 N., R. 16 W.
  Chains.
                                      log. 79.82 = log. sin. 45°7' = colog. sin. 44°59'=
                                                                           1.902112
9.859368
                                                                           0.150641
                45°,
17W 79.82
BASE
    545° 6'N
CO P.
                                                                           1.903121=log.80.01 chs.
               The vertical angle from the cor. of secs. 10, 11, 14 and 15 to the cor. of secs. 9, 10, 15 and 16 is -10°25, which gives a difference in elevation of 970 ft.
  44·59
     N89°54'W.
                From the cor. of secs. 9, 10, 15 and 16, S.89° 55' E., on a true line, bet. secs. 10 and 15.
   Over level land, through scattering undergrowth.

Nash, 50 lks, wide, 2 ft. deep, course $.20° W.

Wash, 100 lks. wide, course $.20° W.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap
                                                         SlO
                    And raise a mound of stone, 2\frac{1}{2} ft. base, 2 ft. high, \mathbb{N}
                    of cor.
                The approximate topography for the remainder of the mile
                     is as follows:
               Wash, 70 lks. wide, 3 ft. deep, course S
Leave level land, brs. N.30° E. and S.30°
Spur, slopes N.50° W. Continue ascent.
The cor. of secs. 10, 11, 14 and 15.
   42.00
                                                                                     s.40° W.
    47.00
   52.00
   80.01
               Land, nearly level and mountainous.
                Soil, rocky, 4th rate, and sandy.
               No timber.
               Undergrowth, greasewood and cat claw.
               N.O° 1' W., bet. secs. 10 and 11.
                Over mountainous land, through scattering undergrowth.
                Desc. 500 ft.
               Foot of descent, brs. NE. and SW. Asc. 160 ft. Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, ina mound of stone, for 4 sec. cor., marked on
   24.68
   40.00
                     brass cap
                                                    S10 S11
                     And raise a mound of stone, 3 ft. base, 2 ft. high, 7.
                     of cor.
               Spur, slopes 5.60° W. Desc. 15 ft. Ravine, course 5.50° W. Asc. 60 ft. Spur, slopes 5.60° W. Desc. 60 ft. Ravine, course 5.70° W. Asc. 20 ft.
    49.70
   51.54
57.62
   59.93
   66.ió
   71.11
               Ravine, course S.70° 7. Asc. 205 ft.
               Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, in a mound of stone, for cor. of secs. 2, 3, 10
                    and 11, marked on brass cap
                                                    T271 R16W
S 3 S 2
                                                      S10 SII
                                                         1917
                    And raise a mound of stone, 3 ft. base, 2\frac{1}{2} ft. high. W
                    of cor.
               Land, mountainous.
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Completion of Subdivision of T. 27 N., R. 16 W. 37 N.0° 1' 7., on a random line, bet. secs. 2 and 3.

Set a flag ahead on line, and measure a base S.89° 59' W.,

74.95 chs., from the W. end of which the flag brs. N.60°

47' E. The distance is given by Chains. $\frac{74.93}{\sin .60^{\circ}}$ 48. = $\frac{x}{\sin .29^{\circ}}$ 12., or by logarithms, FLAG X 1.874656 9.683295 log. 74.93 * log. sin. 29°12'= colog. sin. 60°48'= - 29 - 12 0.059025 1.621976 = log. 41.88 chs.Set temp. witness cor. to $\frac{1}{4}$ sec. cor.

Intersect H. bdy. of Tp., 4 lks. W. of the cor. of secs.

2, 3, 34 and 35, which is an iron post, described in Book "A.". 41.83 79.77 Thence S.0° 1' 7., on a true line, bet. secs. 2 and 3.

Over mountainous land, through scattering undergrowth and

timber 1. Asc. 135 ft.

Spur, slopes N.70° 7. Desc. 30 ft.

Raying course N 60° 7. 4.65 8.00 Ravine, course N.60° W. Asc. 195 ft.

Spur, slopes W. Desc. 160 ft.

Ravine, course N.60° W. Asc. 255 ft.

Set an iron post, 3 ft. long, 1 in. diam., on bed rock, in a mound of stone, for witness cor. to 2 sec. cor., marked 14.75 32.95 37.87 on brass cap 1917 From which A pinion, 9 ins. diam., brs. N.84 $^{1\circ}_{2}$ E., 70 lks. dist., marked 70 $^{1\circ}_{2}$ S2 B7. No other trees within limits. Raise a mound of stone, 2 ft. base, 2 ft. high. A. of cor. Cor. stands at top of cliff, 500 ft. high, brs.E.andW. Desc. True point for 4sec.cor. is inaccessible. 39.77 44.75 72.75 79.77 Foot of cliff, brs. E. and W. Ravine, course 8.50° W. Asc. The cor. of secs. 2, 3, 10 and 11. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering pinion and juniper. Undergrowth, scrub oak.

General Description.

Practically all of this part of the township lies in the broken foothills and on the west slope of the Grand Wash, Cliffs. The high parts are timbered with scrub juniper and pinion, and covered with scrub oak and manzanita undergrowth. The lower parts support a heavy growth of various kinds of cacti. The soil and land are practically worthless. There are no settlers.

Surveys executed on dates shown on these diagrams by James C. Hooper, U. S. Transitman.

	<u> </u>	Tansiuman.				3-7-V	7
	6	5	. 4	3 10	'n	1	2.8-2
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*	31	3,2	33	34	35	36	

CERTIFICATE OF UNITED STATES TRANSITMAN SURVEYOR

ny the reverse hereof as having been executed by me, and under my direction; and that all the corners of id survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Group 45. Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of the survey. Appendix	I, James C. Hooper ,U.	S. Surveyor, hereby certify upon honor that, in pursuance
aring date of the Tth. day of January 1915, I have well, faithfully, and truly my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision. Ineg. of TOWISHIP 27 NORTH, RANGE 15 WEST, and TOWISHIP 27 NORTH, RANGE 16 WEST, of the Gila and Selt. IVER Base find. Meridian, in the State of Arizons, which are represented in the foregoing field notes and on the diagrams on the special written instructions of the U.S. Surveyor General for Group 45, Arizona, and in the special written instructions of the U.S. Surveyor General for Group 45, Arizona, and in the special written instructions of the U.S. Surveyor General for Group 45, Arizona, and in the special written instructions of the U.S. Surveyor General for Group 45, Arizona, and in the special written instructions of the U.S. Surveyor General for Group 45, Arizona, and in the special written instructions of the U.S. Surveyor General for Group 45, Arizona, and in the special written instructions of the U.S. Surveyor General for Group 45, Arizona, and in the special written instructions of the U.S. Surveyor General for Group 45, Arizona, and in the special instructions described in the field notes, and that the foregoing field notes of the survey of the field notes of the survey of the field notes, and the survey of the field notes, and the survey of the field notes of the above-described surveys in the certify that the foregoing transcript of the field notes of the above-described surveys in the certify that the foregoing transcript of the field notes of the above-described surveys in the certify that the foregoing transcript of the field notes of the above-described surveys in the certify that the foregoing transcript of the field notes of the above-described surveys in the certify that the foregoing transcript of the field notes of the above-described surveys in the c	of special instructions received from the U.S. Surve	eyor General for Group 45, Arizona.
ons, and the laws of the United States, surveyed all those parts or portions of the Subdivision in the States of the United States, surveyed all those parts or portions of the Subdivision in the State of the Subdivision of the Subdivision, and the State of Arizons, which are represented in the foregoing field notes and on the diagrams of the reverse hereofus having been executed by me, and under my direction; and that all the corners of the survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Group 45. Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of the survey. Approval		
TOWNSHIP 27 NORTH, RANGE 15 WEST, and TOWNSHIP 27 NORTH, RANGE 15 WEST, and TOWNSHIP 27 NORTH, RANGE 15 WEST, of the Gila and Salt iver Base and Meridian, in the State of Arizona, which are represented in the reverse hereoftas having been executed by me, and under my direction; and that all the corners o aid survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc- ons, and the special written instructions of the U.S. Surveyor General for Group 45, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes o the survey. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, The foregoing field notes of the survey of The foregoing field notes of the survey of the field notes of the above-described surveys in The foregoing field notes of the field notes of the above-described surveys in	n my own proper person, and in strict conformity	with said instructions, the Manual of Surveying Instruc-
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BOOK 3257

Book P"

Group 45 - - - Arizona.

~ DATE ADIAGRAMA~

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Surveys executed on dates shown on this diagram by S. Frank Walters, U. S. Transitman.

RANSITMAN URVEYOR.

-05 ⁵	1	CERTIFICATE	OF	UNITED	STATES	SUF
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I, S. Frank Walters U.S. Surveyer, hereby certify upon honor that, in pursuance
of special instructions received from the U.S. Surveyor General for Group 45, Arizona,
bearing date of the _7th day ofJanuary,, 1915 , I have well, faithfully, and truly
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United States, surveyed all those parts or portions of of the
HUALPAI INDIAN RESERVATION BOUNDARY, within Township 27 North, Range
15 West, and SURVEYED all those parts of portions of the Subdivision
lines of TOWNSHIP 27 NORTH, RANGE 14 WEST, and
TOWNSHIP 27 NORTH, RANGE 15 WEST,
of the Gila and Salt
River Base and Meridian, in the State of Arizona, , which are represented in and on the diagram on the reverse hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of
said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the U.S. Surveyor General for Group 45, Arizona.
and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. U. S. Surveye. Transitmen.
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix, Arizona, March 17, 1919
The foregoing field notes of the curvey of Retracement of part of the Boundary of
the Hualpai Indian Reservation within TOWNSHIP 27 NORTH, RANGE 15 WEST,
and of the Survey of the
Subdivision lines of parts of Townships 227 North, Ranges 14,15 and 16
West, of the Gila and Salt River Base and Meridian, in the State
of Arizona,
executed by S.Frank Walters and James C.Hooper, U.S.Transitmen,
under be special instructions dated January 7,1915, for Group 45, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.