JUL 17.1916

BOOK 2819

# FIELD NOTES

OF THE SURVEY OF THE

	West Bou	ındary of	T. 3 S.	R. 18 E	G.		
	North	# *	T. 3 S.	, R. 18 E	·		
	East	<b>11</b> 11	T. 3 S.	R. 18 H	. (por	tion)	
<b></b>	North	n n	T. 3 S.	, R. 19 E	. (por	tion)	
With	in the W	hite Mour	ntain (or	c San Car	los) Ind	lian Resert	ration
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		<del></del>		===			·
		<b></b>	<del></del>	<b></b>			
•				7		~~~	· <del>-</del>
31 <b>5</b>	Of the	Gila	& Salt I	River Bas	<b>e</b> &	Meridian,	
In the State	of		Arizona			·	
		E	EXECU.	TED BY	•		
		H. L. I	Baldwin,	Topogra	pher		
<u>,</u> u							
In the capac	city of U.S	S. Surveyor.	, under	instruction	$is\ dated$	October 28	3. 191 <sup>5</sup> .
issued by to	Commis	sioner of	the Ger	neral Lan General to			,
Group No					mmission	er-of-the-Gen	verul-Land
0 ffice,		, <i>ī</i>	9 <del>1, -, mor</del>	s <del>rount-to-</del> a	athority	contained-in	the Act-of
Congress tha	ted-		; <del>191-</del> :	•			
	Survey co	ommenced .	Noven	ber 19,		, 191 <mark>5</mark>	
	a	7 , 7	Decem	ham 2		5	

## INDEX DIAGRAM.

Townsi	hip	·	. Range	· · · · · · · · · · · · · · · · · · ·	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	31	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

### INDEX.

BCOX 2819

													•	Page	
West	Boundary	of	T.	3	S.,	R.	18	E.,	•	•	•	•	1	to	11
North		#	T.	3	s.,	R.	18	E.,	•	•	•	•	11	to	17
East	•	<b>n</b> .	T.	3	s.,	R.	18	E.,	•	•	•	•	17	to	18
North		w	T.	3	S.,	R.	19	E.,	•	•	•	•	19	to	21

The SW. Cor. of T. 3 S., R. 18 E. is in Lat. 33° 07' N., Long. 110° 31' 40" W.

Survey commenced November 19, 1915, by H. L. Baldwin, Topographer, and executed with a Buff & Buff transit with solar attachment, No. 9207, the horizontal limb having two double verniers placed opposite each other and reading to minutes of arc.

Before beginning work the instrument was tested and all adjustments corrected wherever necessary.

The iron posts used in this survey are 3 ft.long, set 26 ins.in the ground, filled with cement and fitted with brass caps. The posts at \(\frac{1}{2}\) sec.cors. are 1 inch in dia., and those at township, section and meander cors. 3 ins.dia.

After considerable search, I find the SW. cor. of T. 3 S. R. 18 E., same being nearly one-half mile distant from the point described in the bearings given to the terminal corner of the amended south boundary of the White Mountain Indian Reservation, at the junction of Gila and Hawk Canyons. This bearing was given as S. 1º 8' W., 168.55 chs. dist. from the cor. of the township above described. This corner was found to be marked and witnessed as described in notes of the survey of E. bdy. of T. 4 S., R. 18 E.

North of and alongside the old stone which is a granite 8x12x10 ins. above ground, I set an iron post 3 ins. dia., stamped in cap

T 3 S in N.
R 18 E S 31 in NE.
S 6 in SE.
S 1 in SW.
R 17 E S 36 in NW.
T 4 S 1915 in S., from which

A palo verde 6 ins. dia. brs. S.14°E., 191 lks. dist. (Properly marked, as described)

A cedar 10 ins. dia. brs. N. 6170 W., 224 lks. dist. (properly marked, as described).

The old mound of stone 4 ft. base, 3 ft. high, was reconstructed S. of the corner.

constructed S. of the corner.

Mt. Turnbull brs. S. 79° 16' E. instead of S. 79½° E. as described.

Nov. 20, 1915, At 3 p.m., l.m.t., I set off 33° 07' N. on the lat. arc, 19° 35' S. on the decl. arc, and determine a meridian with the solar.

Thence I run

North bet. secs. 31 and 36.

Ascending slightly, over SW. slope.

2.00 Ridge, brs. SE. and NW.

Descend N. slope.

9.00 Wash, course NW., 20 1ks. wide.

Ascend SW. slope.

16.00 Spur, brs. W., 6.00 chs.

Descend NW. slope.

21.50 Draw, course W.

Ascend.

```
Chains
 38.30
        Descend N. slope.
 40.00
        Set an iron post 1 inch dia., for & sec. cor. bet. secs.
           31 and 36, stamped in cap
                      in N.
                            in E.
                      8 31
                      8 36
                             in W.
                            in S., from which
                      1915
          A cedar 28 ins. dia. brs. S. 34° W., 134 lks. dist.
                           $ 36 B T.
                     Mkd.
          A cedar 30 ins. dia. brs. N. 76° E., 242 lks. dist. Mkd. 4 S 31 B T.
        Cor. falls on S. edge of high water of wash, 1.00 ch.
           wide, course R., but which soon turns to the N.
40.75
        Wash, course E., 30 lks. wide.
        Ascend SE. slope.
46,00
        Spur, brs. E.,
        Descend N. slope.
49.40
        Wash, course E., 20 1ks. wide.
        Ascend S. slope.
52.50
       Slope, changes to SE.
56.60
       Spur, brs. SE.
        Descend NE. slope.
63.60
        Wash, course SE., 20 lks. wide.
        Ascend SW. slope.
80,00
        Set an iron post 3 ins. dia. for cor. of secs. 25, 30,
          31 and 36, stamped in cap
                      T 3 8 in N.
R 18 E S 30
                                     in NE.
                      S 31
                            in SE.
                      8 36
                            in SW.
                      R 17 E S 25
                                     in NW.
                      1915
                           in S.,
                                         from which
          A palo verde 6 ins. dia. brs. S. 48\frac{1}{2}^{\circ} W., 33 lks. dist. Mkd. T 3 S R 17 E S 31 B T.
                            on 14 inch cedar tree
          A cedar limb 5 ins. dia. brs, N. 11° E., 19 lks. dist. Mkd. T 3 S R 18 E S 30 B T.
        Raise mound of stone 2 ft. base, 1 ft. high, W. of cor.
        Cor. falls on limestone hill 5 ft. below the summit which
          is 1.00 ch. E. of this point.
        Land, rough and mountainous.
        Soil, decomposed granite, 2nd and 3rd rate.
        Slopes are too steep for agricultural use;
        Poor grazing land.
       Dense undergrowth of oak brush, mesquite, palo verde,
           and cactus.
```

Scattered cedar, pinon, and palo verde timber.

Chains	
	Nov. 20, 1915. At this cor., in lat. 33° 08' N., and long., 110° 31' 40° W., I observe Polaris at 5h 8.4m and 5h 11.3m, p.m., 1.m.t., with telescope direct and reversed and mark the points on the ground north of cor. The bearing of Polaris at these instants of time is 75.2' and 74.6' respectively, east of north. From the mean of these two points I lay off 1° 15' W. and the true meridian thus obtained agrees with that brought forward to this point.
	Close work Nov. 20, 1915.
	North bet. secs. 25 and 30.
	Ascending SW. slope.
1.50	Ridge brs. SE. and W.
	Descend N. al ope.
8.00	Wash, course E., 10 lks. wide.
	Ascend SE, alope.
10.25	Spur brs. E., 2.00 chs.
:	Descend NE. slope.
13,25	Wash, course SE., 20 lks. wide.
	Ascend S. slope.
18.90	Ridge, brs. SE. and WW.
	Descend NE. slope.
27.90	Wash, course E., 20 lks. wide.
	Ascend SE. slope.
34.50	Spur, brs. E., 5.00 chs.
	Descend NE. slope.
37.60	Wash, course E., 10 lks. wide.
	Ascend SE, slope.
39.50	Spur, brs. E., 5.00 chs.
1	Descend NE. slope.
40.00	Set an iron post 1 inch dia., for ‡ sec. cor. of secs. 25 and 30, stamped in cap
	in N. S 30 in E. S 25 in W. 1915 in S., from which
	A cedar 16 ins. dia. brs. N. 76° E., 51 lks. dist. mkd. 4 S 30 B T.
	A cedar 20 ins. dia. brs. N. 17½° W., 63 lks. dist. mkd.

	Survey of the West boundary of T. 5 S., R. 18 E.
Chains	
	Cor. falls on very steep NE. slope, 125 ft. above bed of Hawk Canyon. Thence very steep descent.
48.10	Foot of slope.
	Enter Hawk Canyon, course NW.
54.15	S. edge of wash, in Hawk Canyon, course NW., 1.00 ch. wide.
61.00	Leave Hawk Canyon,
	Ascend SW. slope.
65.10	Enter level mesa, bearing SE. and NW.
64.60	Wire fence, brs. SE. and NW.
80.00	Set an iron post 3 ins. dia., for cor. of secs. 19, 24, 25 and 30, stamped in cap
	T 3 S in N R 18 E S 19 in NE S 30 in SE S 25 in SW R 17 E S 24 in NW 1915 in S
	Raise mound of stone 3 ft. base, 2 ft. high, W. of cor.
Transition of the state of the	Cor. falls on flat.
	Land, mountainous and heavy rolling. Soil, 4th and 1st rate. Dense undergrowth of scattered mesquite, cactus, buck brush and palo verde. No timber.
	North bet. secs. 19 and 24.
	Over flat mesa country.
<b>6.7</b> 0	Seeing that the true point for C. C. bet. secs. 19 and 24, on the White Mountain Indian Reservation boundary will fall in unsafe place for cor., at this point
	Set an iron post 3 ins. dia. for W. C. to C. C. of secs. 19 and 24, stamped in cap
	T 3 S W C C C M C in N R 18 E S 19 in E R 17 E S 24 in W 1915 in S
	As two of the boundaries of the White Mountain Indian Reservation coincide at this point, and as the land lying north of this line is public land, and south of this line is also public land, I do not mark W M I R on post.
8.08	Intersect the amended south boundaries of the White Mountain Indian Reservation, which coincide at this point, at a point 280 lks. N. 68° 04' W., of the 96's mile corof the amended south bdy. of the White Mountain Indian of the amended south bdy.

Intersect the amended south boundaries of the White Mountain Indian Reservation, which coincide at this point, at a point 280 lks. N. 68° 04' W., of the 96g mile cor. of the amended south bdy. of the White Mountain Indian Reservation, established by me Sept. 18, 1915; and 12.25 chs. N. 68° 04' W. of the 30 mile cor. of amended South bdy. of White Mountain Indian Reservation, established by P. Coutzen, February, 1898, which is a

Chains	
	malpais stone 20x10x7 ins. above ground, marked W M I R A S B on N., 30 M on R., and P L on S. face, with mound of stone 3 ft. base, 2 ft. high, N. of cor.
	Descend steep N. slope to Gila River.
10.15	S. edge of water of Gila River, course W., 180 lks. wide.
14.15	Leave river bottom. Ascend gradually.
15,00	At high water mark, set an iron post 3 ins. dia. for M.C. bet. secs. 19 and 24, on N. bank of Gila River, stamped in cap
	T 3 S in N. R 18 E S 19 in NE. R 17 E S 24 in NW. M C 1915 in S., from which
	A mesquite 7 ins. dia.brs. S. 412 R., 63 lks. dist. Mkd. T 3 S R 18 E S 19 M C B T.
	A mesquite 8 ins. dia. brs. S. 737° W., 32 lks. dist. Mkd. T 3 8 R 17 E 8 24 M C B T.
21.60	Ascend SW. slope.
35,50	Slope changes to SE.
39,00	Wash, course SE, 10 lks. wide.
40,00	Set an iron post 1 inch dia., for \(\frac{1}{2}\) sec. cor. bet. secs.  19 and 24, with cap stamped
	in N. S 19 in E. S 24 in W. 1915 in S.
-	Raise mound of stone 2 ft. base, 12 ft. high, W. of cor.
44.00	Spur, brs. E., Descend NE. slope.
46,30	Wash, course SE., 20 lks. wide,
,	Ascend SE, slope.
51,35	Ridge, brs. R. and W.
	Descend N. slope.
59.30	Wash, course SE., 60 lks. wide.
	Ascend steep SW. slope.
62.80	Slope ohanges to S.
68,75	Ridge, brs. SF. and NW.
	Ascend NE. slope.
72.75	Wash, course SE., 10 lks. wide.
,	Descend SW. slope.
80.00	Set an iron post 3 ins. dia. for cor. of secs. 13, 18, 19 and 24, stamped in cap

Chains

T 3 S in N.
R 18 E S 18 in NE.
S 19 in SE.
S 24 in SW.
R 17 E S 13 in NW.
1915 in S.

Raise mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of sor

Cor. falls on S. slope, 3.00 chs. NE. of a ravine, course SE.

Land, heavy rolling.
Soil, rocky and gravelly, 2nd, 3rd and 4th rate.
Dense undergrowth of mesquite, cactus, buck brush and palo verde.
No timber.

Close work Nov. 21, 1915.

I take no observation for meridian this evening because my line has been a transit line with good distant fore and back sights.

North bet. secs. 13 and 18.

Ascending SW. slope.

7.00 Slope changes to SE.

14.10 Rock spur brs. SE., 50 lks.

Descend NE. alope.

18.00 | Canyon, course SE., 30 lks. wide in bottom.

Ascend steep S. slope.

Intersect amended south bdy. of the White Mountain Indian Reservation, 24.82 chs. E. of the 90 mile cer. established by me Sept. 14, 1915, and which is an iron post 1 inch dia., set in a mound of stone, stamped in cap 90 M ASB WMIR in N., PL in S., with mound of stone 3 ft. bme, 2 ft. high, N. of cor.

At this intersection, set an iron post 3 ins. dia., in rocky ground, for C.C. of secs. 13 and 18, stamped in cap

W M I R T 3 S in N. R 18 E S 18 in NE. R 18 E S 18 in SW. R 17 E S 13 in SW. C C 1915 in S.

Raise mound of stone 4 ft. base, 3 ft. high, S. of cor.

This cor. falls in a small ravine course S., and about 3 ft. W. of the drain therein.

It is about 600 ft. below the top of mountain and about 30 ft. E. of a long narrow strip of slide rock on mountain side bearing about N. and S. for 400 ft.

Continue ascent; up steep mountain side.

Chains	
37.36	Top of mountain brs. NW. and SE., 2000 ft. above Gila River. Highest point of mountain brs. about 2.00 chs. NW.
,	MT. Turnbull, brs. S. 68° 25' E., about 20 miles.
	Church at San Carlos brs. N. 76° 04' E., about 8 miles.
	Triplett brs. N. 44° 34' E., about 20 miles.
	Descend NR. slope.
40.00	Set an iron post 1 inch dia., for \$ sec. cor. of secs. 13 and 18, stamped in cap
	t in N. S 18 in E. S 13 in W. 1915 in S.
	Raise a mound of stone 3 ft. base, 2 ft. high, W. of cor.
48.53	Church at San Carlos, brs. N. 77° 04' E.,
	Descend over precipice, 1200 ft.
62.80	Gulch course NE., 20 lks. wide in bottom.
	About 1.00 ch. E. of this point is a small spring of good water.
	Ascend SE. slope.
65,00	Top of spur, brs. NE., 3.00 chs.
,	Descend NE. slope.
71.20	Wash, 30 lks. wide in canyon, course SE.
	Ascend 300 ft up SW. slope.
80.00	Set an iron post 3 ins. dia. for cor. of secs. 7, 12, 13 and 18, stamped in cap
	T 3 S in N. R 18 E S 7 in NE. S 18 in SE. S 13 in SW. R 17 E S 12 in NW. 1915 in S.
	Raise mound of stone 3 ft. base, 2 ft. high, W. of cor.
	Land, very rough and mountainous. Soil, rocky, 4th rate. Dense undergrowth of mesquite, catclaw, palo verde, and cactus.
	No timber.
	Cor. falls on SW. slope, 100 ft. below ridge, which bears NW. and SE.
	North bet. secs. 7 and 12.
	Ascending SW. slope.

7.40 Ridge, brs. SE. and NW.

	Chains	
		Descend NE. slope.
	16.35	Wash, course SE., 20 lks. wide.
		Ascend Sw. slope.
	21.19	Ridge brs. NE. and SW.
		Descend NE. slope.
	23,20	Head of wash, course SE.
		Ascend S. slope.
	24.60	Ridge, brs. SE. and NW.
		Descend N. slope.
	27.90	Wash, course SE., 10 lks. wide.
-	29.34	Spur brs. SE. 4.00 chs. Mt. Turnball brs. S. 65° 51' E.
	32.00	Wash, course E., 10 lks. wide. Asc. S. slope.
	35,34	Spur, brs. SE., 10 chs.
		Descend N. slope.
A CONTRACTOR STATE OF THE PERSON OF THE PERS	36,40	Enter wash, course SE.
THE R. P. LEWIS CO., LANSING, S. P. LEWIS CO	40.00	Set an iron post 1 inch dia., for \$\frac{1}{2}\$ sec. cor. bet. secs.  7 and 12, stamped in cap
And the second s		in N S 7 in E S 12 in W 1915 in S
	ı	Raise mound of stone 2 ft. base, 12 ft. high, W. of cor.
	41.00	Leave wash, Ascend S. slope.
	44.35	Thence along E. slope.
	5 <b>5.0</b> 5	Descend NE. slope.
-	57.20	Wash, 10 lks. wide, in canyon, course SE.
		Ascend steep S. slope.
	61.20	Slope changes to SW.
	72.57	Spur, brs. W., 3.00 chs.
		Descend NW. slope.
The statement of the state of t	79.50	Seeing that the true point for the cor. of secs. 1, 6, 7, and 12, will fall in unsafe place for cor., at this point,
		Set an iron post 3 ins. dia., for W. C. to the cor. of secs. 1, 6, 7 and 12, stamped in cap
		T3S WC in N R 18 E S6 in NE S 7 in SE S 12 in SW R 17 E S 1 in NW 1915 in S from which

Chains	
	A palo verde 6 ins. dia. brs. N. 327° E., 36 lks. dist. Mkd. T 3 S R 18 E S 6 W C B T.
	A palo verde 8 ins. dia. brs. S. 65½° E., 29 lks. dist. Mkd. T 3 S R 18 E S 7 W C B T.
	No other trees available.
	Cut a cross on a rock boulder 4x4x4 ft. on W. side of creek, which brs. N. 89\frac{1}{2} W., 70 lks. dist., and mark same W C B O, with cross at correct point.
80,00	True point for cor. of secs. 1, 6, 7 and 12, falls in unsafe place in wash, course SW,
	Land, mountainous. Soil, 4th rate. Dense undergrowth of buck brush, cactus, mesquite and palo verde. Timber, scattered scrub cedar.
	From true point for cor. of secs. 1, 6, 7 and 12, I run
	North bet. secs. 1 and 6, leaving wash at this place. course SW.
1.10	Same wash, course SE.
3.50	Same wash, course SW.
6.00	Same wash, course SE.
11.25	Same wash, course SW.
	Ascend S. slope.
12.30	Spur, brs. E. 50 lks.
	Descend NE. slope.
13,80	Same wash, course SE.
	Ascend SW. slope.
25.30	Spur, brs. W., 1.00 ch.
	Descend NW. slope.
30.00	Same wash, course SW.
	Ascend S. slope.
36.00	Trail, brs. SE. and NW.
36,65	Ridge, brs. SE. and NW. Descend N. slope.
	Church at San Carlos, brs. S. 88° 59' E.,
	Mt. Turnbull brs. S. 62° 50' E.
39.75	Draw, course NE.
	Ascend SE. slope.
40.00	Set an iron post 1 inch dia., for \(\frac{1}{4}\) sec. cor. bet. secs.  1 and 6, stamped in cap

	•
Chains	
	in N. S 6 in E. S 1 in W. 1915 in S.
	Raise mound of stone 3 ft. base, 2 ft. high, W. of cor.
40.96	Spur brs. E. 2.00 chs.
	Descend N. slope.
43.40	Wash, course SE., 20 lks. wide.
i,	Ascend SW. slope.
63.50	Thence along W. slope.
	Nov. 22, 1915, At 5h 4.lm p.m., l.m.t., and 5h 5.8m p.m., l.m.t., I observe Polaris, with telescope direct and reversed and mark the goints on the ground N. of my station. The bearing of Polaris at these instants of time is 1° 14½. E., and 1° 14.2. E. of N. respectively. From this point I lay off an angle of 1° 14.3. W. and the line thus determined agrees with the line brought forward to this point.
	Close work Nov. 22, 1915.
56.60	Descend NW. slope.
61.60	Slope changes to N.
65 <b>.0</b> 0	Draw, course E.
	Ascend SE. slope.
70.00	Slope changes to S.
72.16	Spur, brs. E., 2.00 chs.
	Descend N. slope.
74.43	Enter wash, course SE.
78.43	Leave wash, course SE.
	Ascend SW. slope.
80.00	Set an iron post 3 ins. dia., for cor. of Tps. 2 and 3 S. Rgs. 17 and 18 E., stamped in cap
	T 2 S in N. R 18 E S 31 in NE. S 6 in SE. S 1 in SW. R 17 E S 36 in NW. T 3 S 1915 in S.
	Raise mound of stone 4 ft. base, 2 ft. high. S. of cor.
	This cor. falls half way up bank from wash, course S. 70° E., 5.00 chs. wide; and one half mile south of a very prominent butte, with perpendicular ledges on S., E. and W. sides. A due north line from cor. will split butte with in two-thirds of it east and one-third west of line.

Land, heavy rolling. Soil, decomposed granite, 2nd rate. (Good grazing).

#### Chains

Dense undergrowth of scrub oak, mesquite and catclaw, cactus and Spanish bayonet.

From the cor., a giant cactus 1 foot in diameter, with 6 branches from upright stem, brs. S. 52° W., 47 lks. dist., blazed towards corner.

November 23, 1915.

#### North Boundary of T. 3 S., R. 18 E.

At the secant point 3 lks. S. of the cor. of Tps. 2 and 3 S., Rgs. 17 and 18 E., I turn off an angle of 90° 1.7' from my backsight to the south, and run

N. 89° 58.3' E. along the secant, through sec.31.

Ascending SW. slope.

1.50 Spur brs. S., 2.00 chs.

Descend E. slope.

3.00 Draw, course S., 10 lks. wide.

Ascend W. slope.

6.40 Spur brs. S., 10 chs.

Descend E. slope.

10.70 Wash, course S. 10 lks. wide.

Ascend SW. slope.

22.13 Ridge, brs. SE. and NW. Ascend NE. slope.

Butte, north of cor., brs. N. 34° W.

Allowing for convergency, - 1 lk. N. of secant, At this point set an iron post 1 inch dia., for \( \frac{1}{4} \) sec.
cor., stamped in cap

in W.
8 31 in N.
8 6 1915 in S.

Raise a mound of stone 3 ft. base, la ft. high, N. of cor.

41.00 Enter wash, course E.

52.00 Leave wash, course SE. Ascend SW. slope.

57.60 Thence along S. slope.

59.70 Descend SE. slope.

66.40 Slope changes to N.

```
Chains
       Wash, course S., 20 lks. wide. Ascend SW. slope.
70.50
73.76
       Spring of fresh water, 2.00 chs. S. of line.
74.23
       Thence along S. slope.
78.58
       Set an iron post 3 ins. dia., for cor. of secs. 5, 6,,
          31 and 32.
                     stamped in cap
                      T 2 8 R 18.B in N.
                     8 32
                            in NE.
                      8 5
                            in SE.
                      8 6
                            in SW.
                      8 31
                            in NW.
                      T 3 8
                             1915 in S.
       Raise mound of stone 3 ft. base, 2 ft. high, W. of cor.
       Land, heavy rolling.
       Soil, decomposed granite, 3rd rate.

Dense undergrowth of palo verde, ocatilla, mesquite,
          catclaw and cottonwood in ravines.
       Giant cactus and cacti.
       A few cottonwood trees, in ravine.
       Cor. falls on south slope, 100 ft. above or nearly half-
         way up to top of hill, north from middle of strip of cottonwood trees in ravine, which brs. S. 70° E.
       N. 89° 59' E. along the secant, through sec. 32.
       Ascending slight SW. slope.
 6.00
       Spur ridge, brs. SE., 10.00 chs.
       Descend E. slope.
17.00
       Wash, 20 lks. wide, in canyon, course S.
       Ascend steep W. slope.
29.60
      Slope changes to SW.
35.40
       Ridge, brs. N. and S.
       Descend E. slope.
40.00
       1 lk. S. of secant, set an iron post 1 inch dia., for
         $ sec. cor. bet. secs. 5 and 32, stamed in cap
                       in W.
                              in N.
                              1915 in 8.
       Raise mound of stone 3 ft. base, 12 ft. high, N. of cor.
44.90
      Draw, course S., 5.1ks. wide.
       Ascend slight SW. slope.
46.90
       Spur, brs. SE., 2.00 chs.
       Descend E. slope.
```

50.60 Seepage Spring begins 30 lks. NW. of line, 1.00 ch. N. of cottonwood tree and soon becomes a good stream of water which could be developed easily into permanent water of considerable quantity, perhaps two gallons per minute.

BOOK STOR

Chains Ascend S. slope. Ridge, brs. SE. and NW. 57.30 Descend E. slope. Wash, course SE., 10 1ks. wide. 64.30 Ascend SW. slope. 67.68 Ridge, brs. SE. and NW. Descend NE. slope. 77.00 Wash, course S., 20 lks. wide. Ascend SW. slope. 2 lks. S. of secant, set an iron post 3 ins. dia., 80.00 for cor. of secs. 4, 5, 32 and 33, stamped in cap T 2 8 R 18 E in N. in NE. 8 35 8 5 in SE. 8 6 in SW. 8 32 in NW. T 3 S 1915 in S. Raise mound of stone 3 ft. base, 2 ft. high, W. of our. Land, rolling. Soil, rocky and gravel, 3rd rate (Poor grazing land). Dense undergrowth of Spanish bayonet, mesquite, catolaw and palo verde. Cottonwood and hackberry timber by water in ravine. N. 89° 59° E. along the secant, through sec. 33. Ascending slight SW. slope. Ridge, brs. SE. and NW. 1.80 Descend E. slope. 6.30 Wash, course SE., 10 lks. wide. Ascend SW. slope. Ridge, brs. SE. and NW. 10.60 Descend NE. slope. Wash, course SE., 20 1ks. wide. 25.50 Ascend slight SW. slope. Narrow spur ridge, brs. S., 5.00 chs. 27.90 Descend slight E. slope. Wash, course SW., 30 lks. wide. 33.00 Ascend W. slope.

34.80

40,00

Enter level mesa, brs. N. and S.

2 1ks. S. of secant, set an iron post 1 inch dia.,

for \( \frac{1}{2} \) sec. cor. bet. secs. 4 and 33, stamped in cap

Chains	
	1 in W. S 33 in N. S 4 1915 in S.
•	Raise a mound of stone 3 ft. base, 2 ft. high, N. of cor.
	Cor. falls on flat which has a very gentle slope to S.
47.70	Descend E. slope.
50.70	Wash, course S., 10 lks. wide.
	Ascend W. slope.
52.70	Short narrow spur brs. S.,
	Descend E. slope.
55.00	Wash, course S., 20 lks. wide.
	Ascend SW. slope.
62.12	Enter level mesa brs. N. and S.
64.20	Descend E. slope.
71.00	Wash, course SE. Ascend SW. slope.
75.10	Ridge, brs. N. and S.
	Descend E. slope.
77.00	Enter level land.
80,00	3 lks. S. of the secant, set an iron post 3 ins. dia. for cor. of secs. 3, 4, 33 and 34, stamped in cap
	T 2 S R 18 E in N. S 34 in NE. S 3 in SE. S 4 in SW. S 33 in NW. T 3 S 1915 in S.
	Raise mound of earth and stone 3 ft. base, 2 ft. high, W. of cor.
	Land, rolling; cut with washes, the general course being S. 20° E. Soil, 2nd and 3rd rate. Scrub undergrowth of mesquite, Spanish bayonet, cactus, catclaw and ocatilla. No timber.
	Cor. falls 25 lks. E. of heavy cattle trail, which brs. N. and S., in a clump of mesquite, 1.00 ch. W. of a wash, course S.
	East along secant, through sec. 34.
	Over rolling, broken S. slope.
1,40	Wash, course S., 20 1ks. wide.

Ridge, brs. N. and S.

Chains	
22.00	Wash, course SE., 1.00 ch. wide, 50 ft. deep.
40.00	2 lks. S. of secant, set an iron post 1 inch dia., for \$\frac{1}{2}\$ sec. cor. bet. secs. 3 and 34, stamped in cap
	in W. S 34 in N. S 3 1915 in S.
1	Raise mound of stone 3 ft. base, 2 ft. high, N. of cor.
	Close work Nov. 23, 1915.
49.00	Wash, course S., 50 lks. wide.
53.40	Ridge, brs. N. and S.
57.00	Wash, course S., 1.00 ch. wide.
60.00	Ridge, brs. N. and S.
64.50	Wash, course N., 10 lks. wide.
68.10	Ridge, brs. N. and S.
80.00	2 lks. S. of secant, set an iron post 3 ins. dia., for cor. of secs. 2, 3, 34 and 35, stamped in cap
	T 2 S R 18 E in N. S 35 in NE. S 2 in SE. S 3 in SW. S 34 in NW. T 3 S 1915 in S.
	Raise mound of stone 3 ft. base, 2 ft. high, W. of cor.
*	Land, gently rolling and level, cut by occasional washes and arroyos which drain S. 25° E. and are accasionally very deep with perpendicular sides.  Dense undergrowth of mesquite, catclaw, palo verde and cacti.  Soil, sandy and gravelly, 2nd and 3rd rate.  No timber.
; ; ;	Cor. falls on nearly flat prairie.
;	
	S. 89° 59' K. along secant, through sec. 35.
	Over gently rolling land.
4.00	Wash, course S., 10 lks. wide.
7.80	Land becomes level.
14.38	Triplett brs. N. 39°Ol' E. Mt. Turnbull brs. S. 54° Ol'E. Butte north of Tp. cor. brs. N. 84° 38' W.
18.70	Wash, course S., 20 lks. wide.
21.50	Spur brs. S., 5.00 chs.

26.40 Wash, course S., 20 lks. wide.

34.90 Ridge brs. N. and S.

### Survey of North Boundary of T. 3 S., R. 18 E.

Chains				
38,75	Wash, course S., 10 lks. wide.			
40.00	0.00 l lk. S. of secant, set an iron post l inch dia., for the sec. cor. bet. secs. 2 and 35, stamped in cap			
	in W. 8 35 in N. 8 2 1915 in S.			
**************************************	Raise mound of stone 2 ft. base, 12 ft. high, N. of cor.			
	Cor. falls on W. slope, 40 ft. E. of drain, and 10 ft. above same; also 200 yards NW. of junction of drain.			
41.90	.90 Ridge, brs. N. and S.			
47.30	Draw, course S.			
53.43	Triplett brs. N. 37° 10' E. Mt. Turnbull brs. S. 52° 56' E. Descend steep E. slope.			
58.10	Enter level land, brs. N. and S.			
69.60	Wash, course SE., 50 lks. wide.			
73.50	Wash, course SE., 50 lks. wide.			
76.00	6.00 Wash, course S., 50 lks. wide.			
78.13	8.13 Ascend W. slope. Enter rocky land.			
80,00	80.00 Set an iron post 3 ins. dia., for cor. of secs. 1, 2, 35 and 36, stamped in cap			
	T 2 S R 18 E in N. S 36 in NE. S 1 in SE. S 2 in SW. S 35 in NW. T 3 S 1915 in S.			
	Raise mound of stone 3 ft. base, 2 ft. high, W. of cor.			
	Cor. falls in wide valley, on E. side of wash,			
Land, rolling and cut by deep arroyos bearing S.20°E. Soil, gravel and small boulders, 3rd rate. Dense catclaw, mesquite and cactus. No timber.				
	S. 89° 59 E. along secant through sec. 1.			
	Over level land.			
5,00	Ascend NW. slope.			
10,00	Top of level mesa brs. N. and S.			
16.00	Wash, course S., 10 lks. wide.			
34,90	Descend E. slope.			
	Enter rolling land.			
39.00	Wash, course S., 15 lks. wide.			

	•		1
		Survey of North boundary of T. 3 S., R. 18 E.	2819
	Chains		
	40,00	1 lk. N. of secant, set an iron post 1 inch in dia., for \$\frac{1}{4}\$ sec. cor. bet. secs. 1 and 36, stamped in cap	
		in W. S 36 in N. S 1 1915 in S.	
		Raise mound of stone 3 ft. base, 2 ft. high, N. of cor.	
	46.40	Ridge, brs. N. and S.	
		Descend NE. slope.	
	51.80	Slope changes to E.	
	60,00	Wash, course SW., 70 lks. wide.	
	,	Ascend W. slope.	
	66.50	Thence along slight S. slope.	
	_	Descend E. slope.	
	80.00	3 lks. N. of secant, set an iron post 3 ins. dia., for cor. of Tps. 2 and 3 S., Rgs. 18 and 19 E., stamped in cap	
		T 2 S in N. R 19 E S 31 in NE. S 6 in SE. S 1 in SW. R 18 E S 36 in NW. T 3 S 1915 in S.	
	1	Raise mound of stone 3 ft. base, 2 ft. high, S. of cor.	
		Land, broken from washes and ravines, general course being S. 10° E. Soil, gravelly with small boulders, 3rd rate. Undergrowth of mesquite, cactus, and catclaw. No timber.	
	•	Cor. falls near bottom of deep raving on W. side thereof the course of which is S.	
The second secon		East boundary of T. 3 S., R. 18 E.	
		At the secant point south of the NE. cor. of T. 3 S., R. 18 E., I deflect from my backsight an angle of 90° 1.7' to the south, and run	
		South bet. secs. 1 and 6.	
		Along ravine, general course S.	
	23.50	Enter Gila River bottom, brs. E. and W.	
	37.70	Road, brs. N. 60° W. and S. 60° E.	
	38,00	Seeing that the true point for tasec. cor. bet. secs. 1 and 6, will fall in unsafe place in Gila River bed, at this point, I set an iron post 1 inch dia., for W.C. to the tasec.	
		cor., also M.C., of secs. 1 and 6, stamped in cap	

	<b>)</b>
Chains	·
	in N. S 6 in R. S 1 in W. W C M C 1915 in S.
	Dig pit 36x36x12 ins. 8 ft. N. of cor., and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
40.00	True point for \( \frac{1}{2} \) sec. cor. falls in Gila River bed.
62.00	N. edge of water, course NW., 340 lks. wide.
65.40	Wagon road, brs. NE. and SW.
71.40	Leave river bed, brs. SE. and NW.
ø	Enter nearly level land.
72.30	Set an iron post, 3 ins. dia., for M.C. of secs. 1 and 6, stamped in cap
	M C in N. R 19 E S 6 in SE. R 18 E S 1 in SW. T 3 S 1915 in S.
	Raise mound of stone 3 ft. base, 2 ft. high, S. of cor.
80,00	Set an iron post 3 ins. dia., for cor. of secs. 1, 6, 7 and 12, stamped in cap
	T 3 8 in N. R 19 E S 6 in NE. S 7 in SE. S 12 in SW. R 18 E S 1 in NW. 1915 in S.
	Raise mound of stone 2 ft. base, 12 ft. high, W. of cor.
	As this line has been run solely for the purpose of locating the boundaries of secs. 5 and 6, of T. 3 S., R. 19 E., I do not carry this line any further south.
	Land, broken and level. Soil, 3rd and 1st rate. Undergrowth of maquite and catclaw. No timber.
	The above cor. is 200 yards west of north end of strip of cottonwood trees.
	Close work Nov. 24, 1915.

1 Charter	
Chains	
	From the secant point 3 lks. S. of the NW. cor. of the Tp., I deflect an angle of 3' 27" from my backsight to W. and run
	N. 89° 58.3' E., through sec. 6.
	Along broken S. slope.
1,50	Wash, course S., 10 lks. wide.
	Ascend.
11.00	Ridge brs. NE. and SW.
	Descend SE. slope.
17.00	Wash, course SW., 20 lks. wide.
	Ascend NW. slope.
24,70	Ridge, brs. NE. and SW.
	Descend SE. slope.
29.60	Wash, course S., 5.1ks. wide.
	Ascend SW. slope.
34.30	Spur brs. S., 2.00 chs.
	Descend SE, slope.
38,58	and 1 lk. N. of the secant, At theoretical distance, allowing for convergency, Set an iron post 1 inch dia., for † sec. cor. bet. secs. 6 and 31, stamped in cap
	† in W. S 31 in N. S 6 1915 in S.
	Raise mound of stone 3 ft. base, 2 ft. high, N. of epr.
	Cor. falls on East; side of low spur to the S. from gravel ridge.
41.00	Wash, course S., 10 lks. wide.
	Ascend W. slope.
45.65	Thence over level mesa brs. N. and S.
53.85	Descend SE. slope.
57.00	Wash, course S., 10 lks. wide.
	Ascend SW. slope.
60.00	Spur, brs. 8., 3.00 chs.
	Descend SE. slope.
	Wash, 50 lks. wide, in camon, course SW. Ascend W. slope.
	Top of slope. Enter level mesa, brs. N. and S.
78.58	Set am iron post 3 ins. dia., for cor. of secs. 5, 6, 31 and 32, stamped in cap

Survey of a portion of North boundary of T. 3 S., R.19 E.

=			
	Chains		
		R 18 E S 32 in NE. S 5 in SE. S 6 in SW.	
	T 2 S S 31 in NW. T 3 S 1915 in S.		
	Raise a mound of stone 3 ft. base, 2 ft. high, W. of		
	Cor. falls on flat mesa.		
Land, broken and level. Soil, gravvely, mixed with boulders, 3rd rate. Dense undergrowth of mesquite, catclaw and cactus. No timber.		Soil, gravvely, mixed with boulders, 3rd rate.  Dense undergrowth of mesquite, catclaw and cactus.	
		***************************************	
	,	N. 89° 59' E. along secant, through sec. 32.	
		Over level mesa.	
	3.20	Descend E. slope.	
	7.00	Wash, course SW., 20 lks. wide in bottom.	
		Ascend SW. slope.	
	10.80	Enter level mesa, brs. N. and S.	
	15.80	80 Descend E. slope of mesa.	
	20.65	65 Enter level flat, brs. N. and S.	
	32.50	Wagon road from Rice to San Carlos, brs. N. and S.	
	36.00	Road, brs. N. and S.	
	40.00	l lk. S. of secant, set an iron post 1 inch dia., for test sec. cor. bet. secs. 5 and 32, stamped in cap	
		1 in W. S 32 in N. S 5 1915 in S.	
		Raise mound of stone 3 ft. base, 2 ft. high, N. of cor.	
-	40.80	Wagon road, brs. N. and S.	
	43.90	Wash, course S., 20 lks. wide.	
	54.00	Telephone line brs. NR. and SW.	
	54.75	Wagon road, brs. SE. and NW.	
-	59,48	Wire fence, brs. N. and S.	
-	63.30	Railroad right of way fence, brs. SE. and NW.	
	63.70	Irrigation ditch, 6 ft. wide and 3 ft. deep, brs. N. and S.	
	64.00	Switchtrack of Arizona-Eastern Ry., on curve, brs. N.45°W. and S.60°E.	
	64.31	Arizona-Eastern Railroad main track brs. N. 45° W. and S. 60° E.	
	64.65	Telegraph line parallel to railroad.	

# Survey of a portion of North boundary of T. 3 S., R.19 E.

Chains

64.30 Railroad right of way fence, parallel to railroad.

2 lks. S. of secant, 65.40 Set an iron post 3 ins. dia., for M.C. bet. secs. 5 and 32, stamped in cap

> T 2 S R 19. E 8 32 in NW. T 3 S S 5 in SW. MC in E. 1915 in S., from which

A cottonwood 30 ins. dia. brs. N. 38° W., 290 lks.dist. Mkd. T 2 S R 19 E S 32 M C B T.

A willow 20 ins. dia. brs. N. 641° E., 147 1 Mkd. T 2 S R 19 E S 32 M C B T. 147 lks. dist.

No other trees available.

Dig a pit 36x36x12 ins. 8 ft. W. of cor., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Note: This cor. is also the W. C. to cor. of secs. 4, 5, 32 and 33. Thence through heavy cottonwood and willow timber, brs. N. 60° W. and S. 60° E.

2 lks. S. of secant, true point for cor. of secs. 4, 5, 80.00 32 and 33, falls in overflowed land, from San Carlos River.

Land, broken and level. Soil, 2nd and 3rd rate. Dense undergrowth of catclaw and mesquite, Cottonwood and willow timber in San Carlos River bottom.

From true point for cor. of secs. 4, 5, 32 and 33, the San Carlos Railroad station brs. S. 15° W., about 10 chs. dist.

I discontinue township line at this point as the only purpose for running it at this time is to form a base for the subdivision of secs. 5 and 6, of T. 3 S., R.19 E.

Close work Dec. 2, 1915.

H. L. Baldwin.

Topographer

List of Assistants:

S. H. Pollard, Chainman John Devera

Billie Kindelay, Moundman Frank Gasser

Herbert Forbes, Rodman

Donald Mc Intosh, Moundman & Chainman Julian B. Downey, Jr., Chainman & Rodman

Denver, Colo., april 10-1916

I hereby certify that the survey of the foregoing exterior lines, with the White Mountain (or San Carlos) Indian Reservation, Arizona, was made under my direction and supervision, and to the best of my knowledge and belief the field work was executed in strict accordance with instructions given me dated Jan. 6 and Oct. 28, 1915, and the Manual of Surveying Instructions, and that these field notes are a correct representation thereof.

Topographer in Charge of Indian Surveys.

a. J. Jumington

BOCK SO

## FINAL OATH OF UNITED STATES SURVEYOR.

I,	, U. S. Surveyor, do solemnly swear that, in pursuance
of special instructions received from the	U. S. Surveyor General for
bearing date of theday of	, 191 , I have well, faithfully, and truly,
in 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
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Tare final anth of U.T.	Toldwide Hannamanham and Tool Hill
	.Baldwin, Topographer, see Book "A".
	of the
	State of, which are represented in
	executed by me, and under my direction; and I do further
	d survey have been established and perpetuated in strict accord-
•	a survey have been established and perpetuated in strict accord- actions, and the special written instructions of the U.S. Surveyor
, , , , , , , , , , , , , , , , , , ,	•
	and in the specific manner described in the field notes, and that
the foregoing are the original field notes of	of such survey.
	U. S. Surveyor.
Subscribed by said	
thisday of	, 191
•	
*************	
SEAL W	
	ADDDOVAL
	APPROVAL.
· · · · · · · · · · · · · · · · · · ·	OMMISSIONER OF THE GENERAL LAND OFFICE TOF THE UNITED STATES SURVEYOR WENERAL.
Off	Washington D. O.
	191 0
The foregoing field notes of the surv	the W. and N. bdys. of T. 3 S., f the E. bdy. of T. 3 S., R. 18 E. and
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	19 E., within the White Mountain (or San
Carles) Indian Reservation	on, Arabud,
H.L.Baldwin, Topogra	apher, under direction of A.F. Dunnington,
Teritographer in Charge of Incumental Incume	drag part 10 ps, 00+, 28 m
_	
	prrections and explanations made, the said field notes, and the
surveys they describe, are hereby approve	/ m : - 3
	(Signed) Clay Tallman
	Commissioner of the Beneral Land Corride
	t of the field notes of the above-described surveys in White
Mt. Ind. Res'n, Ariz., has been	n correctly copied from the critical notes on file in this office.
	day www Tr
6—2761	Commissioner of the General Land Office