Book "A".

BCCK 3071

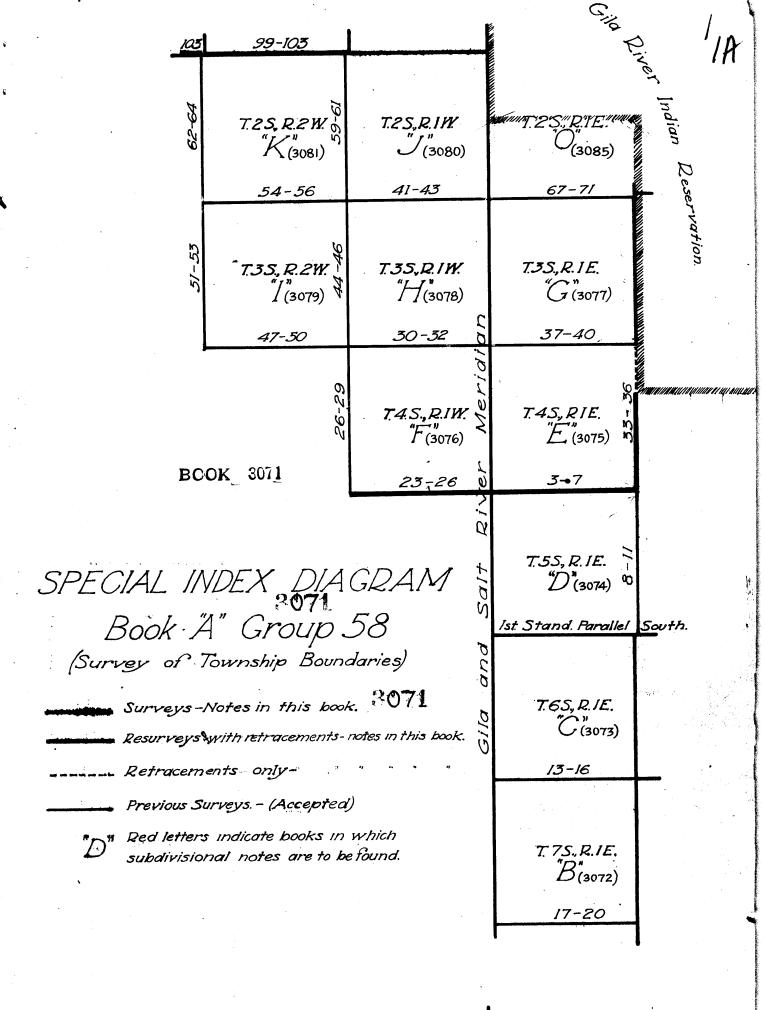
# FIELD NOTES

### OF THE SURVEY OF THE

	w is a mounty base of Howardin 7 South Dance I Rast
	North and South bdrs. of Township 7 South, Range 1 East, East boundary of Township 5 South, Range 1 East,
	North boundary of Township 4 South, Range 1 East,
	North and West bdrs. of Township 4 South, Range 1 West,
	Retracement of
	East boundary of Township 4 South, Range 1 East,
54	Resurvey of portion of
<u> </u>	East boundary of Township 4 South, Range 1 East,
3071	-Resurvey of Mannahin A South Benga 1 Fast
6.0	South boundary of Township 4 South, Range 1 East, South boundary of Township 4 South, Range 1 West,
	Survey of
	North boundary of Township 3 South, Range 1 East,
	North-and-Wast-bdrs. of Town ship 3 South , Range 1 West,
	North, South and West bdrs. of Township 3 South, Range 2 West,
	West boundary of Township 2 South, Range 1 West,
	West boundary of Township 2 South, Range 2 West,
	Retracement and resurvey of
	Resurvey of portion of
	South boundary of Township 1 South, Range 3 West.
-	Survey of
·	South and West bdrs. of Township 11 South, Range 6 East,
	South. East and West bdrs. of Township 11 South, Range 7 East.
	South boundary of Township 11 South, Range 8 East.
	Of the Oile and Calt Divon Baga and Maridian
	Of the Gila and Salt River Base and Meridian,
	In the State ofArizona.
	EXECUTED BY
7	
	W. H. Thorn and W. G. Shapcott, U. S. Surveyors
8	(
• •	á Tagairtí agus agus agus agus agus agus agus agus
3	and
*	W. K. Kierulff, U. S. Transitman
	In the capacity of U.S. Surveyor, under instructions dated October 8, 1915,
•	
	issued by the United States Surveyor General to govern surveys included in
4	german of the states with a great the great th
• .	Crown No. 58 which were approved by the Commissioner of the Canenal Land
3	Group No58, which were approved by the Commissioner of the General Land
. <del>-</del> 	0.00
•	Office, December 17, 1915.
- 1	
	Survey, Retracement
	and Resurvey commenced December 15, 1915.
	Survey, Retracement
	and ReSurvey completed April 14 , 1916.

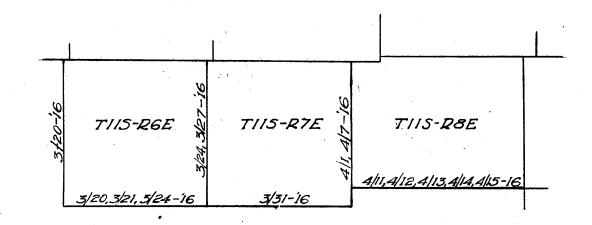
## INDEX DIAGRAM.

Towns	hip		, Range		
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19	20	21	22	28	24
30	29	28	27	26	25
31	30	33	34	35	36



	2nd Standard	Parallel	South	
73-75	7115,R.6E & L (3082)	TIIS.R. 7E. 6 " *  (3083) © 85-88	T.IIS.R.&E. "N" (3084) 93-97	

2/14-16	2/12, 2/14-16			
•• 2/14-16	91-21/2 -T25-R2W	T2S-RIW		
S	2/11-16	2/2-16		3/2,3/2,3/E-1E.
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BCOK 307	7 <b>1</b>	Mist-ic	R.	12/15-15
	DATE DIA	A <i>GRAM</i>	Salt	1.55-RIE 2121
Book A	" Group 58		pur	Ist Stand Parallel 5.
U.S.Survey Lines dated in cott, U.S.Sur Lines dated in b	red were executed or on the dates si green were execute ryeyor on the dates lue were executed 5. Transitman on the	hown d by W.G. Shap- shown by W.K.	Gila	T65-RIE
			-	12/50-15
				T75-RIE
				12/27,12/28-15
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Resurvey of North boundary of T.5 Chains Survey commenced Dec. 15, 1915, and executed with a Young and Son's light mountain transit No, 8478, with Smith Solar attachment, as described in book "A". I examine the adjustments of the transit and correct the level and collimation errors, then to test the solar apparatus, by comparing its indications resulting from a.m. and p.m. observations on a mer. established by observations on Polaris, I proceed as follows:-Dec. 13, 1915, at 8h. 04.4m., p.m., l.m.t., I observe Polaris at U.C. in accordance with instructions in the Manual of Surveying, at Mobile, Arizona. Dec. 14, 1915, I mark the mer. thus determined by a rod set on line 10 chs. N. of my station. (S29 T.4 S.R.1 E) At 9h., a.m., l.m.t., I set off 33° 3' N. on the lat. arc: 230 9' S. on the decl. arc; and determine a mer. with the solar. The mer. thus determined falls within 1' of the mer. determined by observations on Polaris.
At 3h.,p.m.,l.m.t., I set off 33° 3' N. on the lat. arc;
23° 10' S. on the decl. arc; and determine a mer. with the solar. The mer. thus determined falls within l' of the mer. determined by observations on Polaris. I therefore conclude that the adjustments of the transit and solar attachment are satisfactory. Dec. 15, 1915, I set off 33° 2' N. on the lat. arc; 23° 14' S. on the decl. arc; and determine a mer. with the solar, at the cor. of Ts. 4 and 5 S., Rs.1 E. and 1 W. which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General. Thence East on a random line along the N. bdy. of the tp. setting temp. 4 sec. cor. at 39.53 chs., and setting temp. sec. and  $\frac{1}{4}$  sec. cor. at intervals of 40 and 80 chs. thereafter, and at 479. 53 set temp. cor. of Ts. 4 and 5 S., Rs. 1 and 2 E. From the NE. cor. of T.5 S., R.1 E., established by W.H. Thorn, U.S. Surveyor and hereinafter described, which makes the random dist. of N. bdy. of sec. 1, 80.11, chs. and which makes the falling for the N. bdy. of tp., 1 lk. N., I run West on a true line bet. secs. 1 and 36, N. bdy. of tp., Over level land, through scattering timber and undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 39.64 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 36 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3 ft. base, 1 ft. high N. of cor. Note: This cor. is 43.60 chs. dist. from the SE. cor. of T.4 S., R.1 E., hereinafter described, and is set for T.4 S., R.1 E. 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1 sec. cor. with brass cap mkd. dig pits 18 X18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high S. of cor. 79.64 Set an iron post 3 ft. long, 2 ins. in diam., (no 3in.) posts available) 24 ins. in the ground for cor. of secs. 35 and 36, with brass cap mkd. T 4 S R 1 E S 35:S 36

1916

dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor. This cor. is \$3.60 chs. W. of cor. of Ts. 4 S., Rs. 1 & 2 E., hereinafter described.

Resurvey of North boundary of T.5 S.R.1 E. chains Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1 and 2, with brass ap 00.08 24 ins. in S 2:S 1 T 5 S R 1 E 1915 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high S. of cor. Land, level. Soil, loose sandy clay, 1st rate. Timber, mesquite, iron wood and palo verde. Undergrowth, greasewood and cacti. West on a true line along. No bdy. of sec. 2. Over level land, through scattering timber and undergrowth. Wash, 5 lks. wide, 2 ft. deep, course, N.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd.

S 35 12.20 39.64 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Set an iron post 3 ft. long, 1 in . in diam., 26 ins. in 40.00 the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. s 2 1915 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high S. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 79.64 the ground for cor. of secs. 34 and 35, with brass cap mkd. T 4 S R 1 E S 34:S 35 1916 dig pits 24 X 24 X 12 ins. in eah sec. 6 ft. dist and raise a mound of earth 4 ft. base, 2 ft. high N. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 00.08 the ground for cor. of secs. 2 and 3, with brass cap S 3:S 2 T 5 S R 1 E 1,915 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft.base, 2 ft. high S. of cor. Land, level.

Soil, loose sandy clay, 1st rate. Timber, mesquite, palo verde and iron wood. Undergrowth, greasewood and cacti.

West on a true line along N. bdy. of sec. 3. Over level land, through scattering timber and undergrowth. Wash, 5 lks. wide, 1 ft. deep, course, N. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd.

36.37

39.64

Resurvey of North boundary of T.5 S 5 .R.1 E. Chains S 34 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for \( \frac{1}{4} \) sec. cor. with brass cap mkd.  $S^{-3}$ 1915 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high S. of cor. Wash, 6 lks. wide, 1 ft. deep, course, N. 48.70 74.50 Wash, 10 lks. wide, 1 ft. deep, course, NE. Set an iron post 3ft. long, 3 ins.in diam., 24 ins. in the ground for cor. of secs. 33 and 34, with brass 79.64 cap mkd. T 4 S R 1 E S 33:S 34 1916 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor. 00.08 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 3 and 4, with brasscap S 4:S 3 T 5 S R 1 E 1915 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high S. of cor. Land, level.
Soil, loose sandy clay, 1st rate.
Timber, mesquite, iron wood and palo verde. Undergrowth, greasewood. West on a true line along N. bdy. of sec. 4. Over level land, through scattering timber and undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 39.64 the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. S 33 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. 1915 dig pits 18 X 18 X 12 ins. E. and W.of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high S. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 32 and 33, with brass 79.64

400% con

\$ 32:S 33 1916

T 4 S R 1 E

cap mkd.

BOCK 3071

6

Resurvey of North boundary of T.5 Chains dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor. 00.08 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 4 and 5, with brass cap mkd. S 5:S 4 TSSRIE 1915 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high S. of cor. Land, level. Soil, loose sandy clay, 1st rate. Timber, mesquite, iron wood and palo verde. Undergrowth, greasewood. West on a true line along N. bdy. of sec. 5. Over level land, through scattering timber and undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 39.64 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 32 dig pits 18 X 18 X12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. S 5 1915 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high S. of cor. 42.75 Wash, 4 lks. wide, 2 ft. deep, course, N. 30.º E. Wash, 10 lks. wide, 1 ft. deep, course, N. 15° E. Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in 47.50 79.64 the ground for cor. of secs. 31 and 32, with brass cap mkd. Note: No 3 in. posts T4SR1E available. S 31:S 32 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 80.00 the ground for cor. of secs. 5 and 6, with brass cap S 6:S 5 T 5.S R 1 E 1915 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high S. of cor. Land, level. Soil, loose sandy clay, 1st rate. Timber, mesquite, iron wood and mesquite. Undergrowth, greasewood. West on a true line along N. bdy. of sec. 6. Over level land, through scattering timber and undergrowth. 39.64 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

the ground for \frac{1}{4} sec cor. with brass cap mkd.

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East boundary of T.5 S. R.1 E.
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chains Survey commenced Dec. 17, 1915, and executed with a Young and Son's light mountain transit No.8592, as described heretofore. Dec. 15, 1915, in camp, at Mobile, Ariz. in sec. 29, T.4 S., R.1 E., I examine the adjustments of the transit and correct the level and collimation errors. Then to test the solar apparatus by comapring its indications resulting from solar observations, made during a. m. and p. m. hours, with a mer. established by observetions on Polaris, I proceed as follows: At 8h. a.m., l.m.t., I set off 33° 03' N. on the lat. arc; 23° 11' S. on the decl. arc; and determine a mer. with the solar. I mark the mer. thus determined by a rod set on line 10 chs, N. of my station. At 1h. 57m., p.m., l.m.t., I observe Polaris at E.E. in accordance with instructions in the manual of surveying, and lay off the azimuth, 1° 22' to the W. and mark the mer. thus determined by a wooden plug set firmly in the ground 10 chs. N. of my station. At 3h., p.m., l.m.t., I set off 33° 3' N. on the lat. arc; 23° 13' S. on the decl. arc and determine a mer. with the solar. The mer. thus determined falls within 1' of arc, of the mer. established by Polaris observations, as does the mer. established by a.m. solar observations. I therefore conclude that the adjustments of the transit and solar attachment are satisfactory. Dec. 17, at 10h., a.m., l.m.t., I set off 329 57' N. on the lat. arc, 23° 19' S. on the decl. arc; and determine I set off 329 57' N. on the a mer. with the solar at the standard cor. of Ts. 5  $S_{4}^{1}$ , Rs.1 and 2 E., which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General. North along the E. bdy. of sec. 36. Over mountaious land, through scattering timber and undergrowth. Asc. S. slope of stony hill, 289 ft. to Top of ridge brs. E. and W. desc. N. slope, 237 ft. to 17.90 Wash, 15 lks. wide, 3 ft. deep, course, NW. 27.30 Thence over W. slope, to Desc. NW. slope, 97 ft. to
Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in
the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. 33.50 40.00 S 36 ½: and build a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Enter level land, brs. NE. and SW. 41.00 Wash, 30 lks. wide, 2 ft. deep, course, NE. Wash, 70 lks. wide, 2 ft. deep, course, NE. 45.00 46.50 64.00 Wash, 50 lks. wide, 3 ft. deep, course, NE. Wash, 20 lks. wide, 2 ft. deep, course, NE.
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins.
the ground for cor. of secs. 25 and 36, with brass 74.30 24 ins. in 80.00 cap mkd. T 5 S: R 1 E: dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, mountainous, and level.

Soil, stony, 4th rate, and sandy loam, 1st rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood, ocotillos and cacti.

Survey of

North boundary of T.5 S., R.1 E.

Chains

S 31

1916 · dig pits 18 X 18 X 12 ins. E. and W of cor. 3 ft. dist and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high

40.00

N. of cor.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins.in the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd.

**5** 6 1915

dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.

79.64

high S. of cor. Cor. of Ts. 4 and 5 S., Rs. 1 E. and 1 W.

Land, level.
Soil, loose sandy clay, 1st rate.
Timber, mesquite, iron wood and palo verde. Undergrowth, greasewood.

ESTABLISHMENT OF SE. COR. OF T.4 S.R.1 E.

Mar. 10, 1916, at a point 471 lks. S. of cor. of Ts.4 and
5 S.Rs.2 E., I set an iron post 3 ft. long, 3 ins.
in diam., 24 ins. in the ground for cor. of SE.cor. of T.4 S.,R.1 E., with brass cap mkd.
T 4 S:
R 1 E:

S 36:

1916 dig pits 36 X 36 X 12 ins. N. and W. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base, 2 ft. high NW. of cor.

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9
Chains
           North along E. bdy. of sec. 25.
           Over level land, through scattering timber and undergrowth. Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for \frac{1}{4} sec. cor. with brass cap mkd.
40.00
                                      S 25 1:
                                            1915
                 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft.
                 dist. and raise amound of earth 3 ft. base, 1 ft.
                 high W. of cor.
           Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 24 and 25, with brass
00.08
                 cap mkd.
                                      T 5 S
                                     1915
                dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high
                 W. of cor.
           Land, level.
           Soil, sandy adobe, 1st rate.
           Timber, mesquite and palo verde.
           Undergrowth, greasewood.
           North along E. bdy. of sec. 24. Over level land, through scattering undergrowth.
           Wash, 10 lks. wide, 2 ft. deep, course, S. 20° W.
 3.20
           Asc. S. slope of hill49 ft. to
15.00
           Desc. over W. slope, 34 ft. to Wash, 30 lks. wide, 4 ft. deep, course, S. 70° W.
23.00
35 .30
           Asc. S. slope.
           Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, to solid rock, in a mound of stone, 3 ft. base, 2 ft. high, for \( \frac{1}{4} \) sec. cor. with brass
40.00
                 cap mkd.
                                      S 24 1:
                                            1915
           Pits impracticable.
           Build a mound of stone, 2\frac{1}{2} ft. base, 1\frac{1}{2} ft. high W. of cor.
           Asc. S. slope, 286 ft. to Top of ridge, brs. E. and N. 70° W., desc. N. slope,
53.65
                 252 ft. to
           Wash, 30 lks. wide, 6 ft. deep, course, E., asc. S. slope
67.25
                 85 ft. to
           Spur, slopes, NE., desc. N. slope, 132 ft. to
Set an iron post 3 ft. long, 3 ins. in diam., 14 ins. in
the ground, to solid rock, in a mound of stone,
2 ft. base, 1 ft. high, for cor. of secs. 13 and 24,
with bress can mid
73.54
00.08
                 with brass cap mkd.
                                      T 5 S
                                      R 1 E:
                                          13:
                                          24:
                                          1915
                 and build a mound of stone, 3 ft. base, 2 ft. high
                 W. of cor.
           Land, level and mountainous.
           Soil, stony and gravelly, 4th rate.
           Timber, scattering pao verde and iron wood.
           Undergrowth, greasewood, ocotillos and cacti.
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PCOK 3071

	.0	SON SON
	Chains	East boundary of T.5 S. R.1 E.
		North along E. bdy. of sec. 13. Over rolling land, through scattering undergrowth. Desc. NE. slope, 107 ft.
	9.30 20.90	Wash, 25 lks. wide, 3 ft. deep, course, N. 60° E. Wash, 25 lks. wide, 2 ft. deep, course, N. 50° E. Asc. 27 ft. to
	30 .00	Top of rocky knoll. 3 chs. diam., 30 ft. high. Rocks on this knoll are marked with indian hieroglyphics.  Desc. N. slope, to
	33.00 40.00	Enter level land, brs. W. and SE.  Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd.  :
		S 13 ½:  1915  dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. didist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.  At this cor. at 9h., a.m., 1.m.t., I set off 33° 0' N. on the lat. arc; 23° 21' S. on the decl. arc; and
	57.60	determine a mer. with the solar. Road, brs. SW. and NE.
	80.00	Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 12 and 13, with brass cap mkd.
		T 5 S R 1 E: S 12: S 13:
		dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise amound of earth 4 ft. base, 2 ft. high W. of cor. Land, level and rolling. Soil, sandy adobe, 2nd rate. Timber, mesquite and palo verde.
		Undergrowth, greasewood and cacti.
,	40.00	North along E. bdy. of sec. 12.  Over level land, through scattering timber and undergrowth.  Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ½ sec. cor. with brass cap mkd.  S 12 ½:
		1915 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
	80.00	high, W. of cor.  Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1 and 12, with brass cap mkd.  T 5 S  R 1 E:  S 1:  S 12:
		dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
		Land, level. Soil, sandy adobe, 1st rate. Timber, scattering mesquite and palo verde. Undergrowth, greasewood.

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East boundary of T.5 S.R.1 E. Chains North along E. bdy. of sec. 1.

Over level land, through scattering timber and undergrowth.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd.  $s 1 \frac{1}{4}$ : 1915 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of T.5 S.,R.1 E., with brass cap 00.08 RIE

T 5 S 1915

dig pits 36 X 36 X 12 ins. S. and W. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high SW. of cor.

Land, level.
Soil, loose, sandy adobe, 1st rate.
Timber, scattering mesquite and palo verde.
Undergrowth, greasewood and cacti.

#### Boundaries of T.5 S., R.1 E.

Latitudes, Departures and Closing Errors.

			Latitu	ides.	Depart	turen
Line designated.	True bearing.	Dist. chs.	N. chs.	S. chs.	E. chs.	W. chs.
West bdy.	North <b>East</b>	480.00 479.64	480.00		479.64	
East bdy.	South	480.00		480.00		
South bdy. Convergency.	West	480.00			.47	480.00
Totals			480.00	480.00	480.11	480 .DO
Erroz in latitude			.00		480.00	
Error in departu	re				.11	

/3

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Chains
              Survey commenced Dec. 27, 1915 and executed with a Young
                     and Son's light mountain transit No,8478, fitted
                     with a Smith Solar attachment. The horizontal limb
                     is equipped with two opposite verniers, reading to
              single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. From recent and repeated tests I know the transit and
                     solar attachment to be in satisfactory adjustment.
              At the cor. of Ts.6 and 7 S., Rs.1 and 2 E., ., which is an iron post 3 ins. in diam., properly set mkd. and witnessed as described by the Surveyor General.

(Dec. 27, 1915.) I set off 32° 51' N. on the lat. arc; 23° 20' S. on the decl. arc; and determine a mer. with
                     the solar,
              Thence
              West on a random line along N. bdy. of Tp., setting temp. \frac{1}{4} sec. and sec. cors, at intervals of 40 and 80 chs.
                                                                                          setting temp.
                    and at 478.37 chs. intersect G. and S.R.M., 32 lks. N. of the cor. of Ts. 6 and & S., Rs.1 E. and 1 W., which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor Gen-
                     eral.
              Thence
             N. 89° 58' E. on a true line bet. secs. 6 and 31.
              Over level land, through scattering timber and under-
                     growth.
38.37
              True point for \frac{1}{4} sec. cor. falls in wash, 12 lks. wide,
              3 ft. deep, course, NE. therefore at
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
38.22
                                                                                                                    xwit.com
                     the ground for \frac{1}{4} sec. cor. with brass cap mkd.
                                                S 31
                                      S 6 WC
                     from which,
                            A mesquite, 6 ins. in diam., brs. N. 66\frac{1}{2}° E. 156 lks. dist. mkd. W C \frac{1}{4} S 31 B T.
                            A mesquite, 5 ins. in diam.,
                                                                               brs. S 76° W.
                                                                                                              36
                                   lks. dist. mkd. W C \frac{1}{4} S 6 B T.
             Wash, 60 1ks. wide, 4 ft. deep, course, N. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, with
50.97
80.00
                     brass cap mkd.
                                              T 6 S R 1 E
                                               S:31:S 32
S 6 :S 5
T 7 S
                                                    1915
                    from which,
A palo verde, 8 ins. in diam., brs. N. 6l\frac{1}{2}° E.
228 lks. dist. mkd. T 6 S R 1 E S 32 B T.
                            A mesquite, 6 ins. in diam., brs. S. 85\frac{3}{4}° E. 34 lks. dist. mkd. T 7 S R l E S 5 B T.
                            A palo verde, 8 ins. in diam., brs. S. 8\frac{1}{2}° W. 220 lks. dist. mkd. T 7 S R 1 E S 6 B T.
                          A palo verde, 8 ins. in diam., brs. N. 28\frac{1}{2}° W. 321 lks. dist. mkd. T 6 S R 1 E S 31 B T.
             Land, level.
              Soil, loose sandy clay, 1st rate.
             Timber, palo verde, mesquite, iron wood and cat claw. Undergrowth, greasewood brush, ocotillos and cecti.
```

40.00

N.89°58 E.

Over level land, through scattering timber and undergrowth.

Set an iron post 3 ft.long, lin. in diam., 26 ins.in
the ground for 4 sec. cor. with brass cap mkd.

S 32

\$ 5 1916

the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.

27.90 40.00

14

Chains 1915 Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Wash, 60 lks. wide, 4 ft. deep, course, N. 30° W. Wash, 10 lks. wide, 2 ft. deep, course, NW. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with 47.28 69.00 80.00 brass cap mkd. T 6 S R 1 E S 34:S 35 S 3 :S 2 T 7 S 1915 from which, A mesquite, 10 ins. in diam., brs. N.  $78\frac{1}{2}$ ° E. 281 lks. dist. mkd. T 6 S R 1 E S 35 B T. A palo verde, 14 ins. in diam., brs. S.  $78\frac{1}{2}$ ° E. 316 lks. dist. mkd. T 7 S R 1 E S 2 B T. No other trees within limits. Dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft.dist. and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, loose sandy clay, 1st rate.
Timber, scattering palo verde and mesquite.
Undergrowth, greasewood brush. N.89°58'E.

t on a true line bet. secs. 2 and 35.

through scattering timb Over level land, through scattering timber and undergrowth. 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{5}$  sec. cor. with brass cap mkd. 3 1915 Dig pits 18 X 18 X12 ins. E. and W. of cor. 3ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with brass cap mkd. T6SR1E S 35:S 36 2 :S 1 T 7 S 1915 from which, A palo verde, 14 ins. in diam., brs. N. 282° E. 132 lks. dist. mkd. T 6 S R 1 E S 36 B T. A palo verde, 10 ins. in diam., brs. S. 81½° E.
169 lks. dist. mkd. T 7 S R 1 E S 1 B T. A palo verde, 8 ins. in diam., brs. S.  $14\frac{1}{2}$ ° W. 334 lks. dist. mkd. T 7 S R 1 E S 2 E T. A palo verde 12 ins. in diam., brs. N.  $60\frac{1}{4}$ ° W. 261 lks. dist. mkd. T 6 S R 1 E S 35 B T. Land, level.
Soil, loose sandy clay, lst rate.
Timber, palo verde and iron wood. Undergrowth, greasewood brush.

7.	)	North boundary of T. / S. R.I E.
	Chains	N.89°58'E. on a true line bet. secs. 1 and 36. Over level land, through scattering timber and under-
	38.00 40.00	growth.  Wash, 9 lks. wide, 2 ft. deep, course, N.  Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 4 sec. cor. with brass cap mkd.
	42.60 54.40 61.20 80.00	from which, 1915  A palo verde, 8 ins. in diam., brs. N. 463° E.  160 lks. dist. mkd. ½ S 36 B T.  A palo verde, 8 ins. in diam., brs. S. 61½° W.  70 lks. dist. mkd. ½ S 1 B T.  Wash, 25 lks. wide, 3 ft. deep, course, NW.  Same wash, course, SW.  Wash, 15 lks. wide, 2 ft. deep, course, NW.  Cor. of Ts. 6 and 7 S., Rs. 1 and 2 E.  Land, level.  Soil, boose gravelly clay, 2nd rate.  Timber, prao verde and iron wood, and mesquite.  Undergrowth, greaswood brush, ocotillos and cacti.

ocotillos and cacti.

18

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South boundary of T.7 S. R.1
           East on a true line bet. secs. 5 and 32. Over hilly land, through dense undergrowth. Asc. SW. slope, 20 ft. to
 4.50
           Change to broken S. slope.
          Desc. SE. slope, 183 ft.to
Ravine, 40 lks. wide, 5 ft. deep, course, NE.
Foot of desc.
17.20
31.20
40.00
           Set an iron post 3 ft. long, 1 in. in diam., 4 ins. in
                 the ground to solid rock, in a mound of stone, 4 ft. base, 2\frac{1}{2} ft. high, for \frac{1}{4} sec. cor. with brass cap mkd.
                                        $ 32
2
                                          1916
           Pits impracticable.
           Build a mound of stone, 3 ft. base, 2 ft high N. of cor. Wash, 30 lks. wide, 4 ft. deep, course, N.
43.20
           Asc. Rocky W. slope.
58.70
           Top of ridge brs. N. and S. 60° E.
          Thence over S. slope, to Desc. NEL slope, .225 ft. to
62.70
           Set an iron post 3 ft. long, 3 ins. in diam., on surf rock, in a mound of stone, 4 ft. base, 2 ft. high
00.08
                                                                            on surface
                 for cor. of secs. 4, 5, 32 and 33, with brass cap mkd.
T 7 S R 1 E
                                      S 32:S 33
                                      S 5 :S 4
T 8 S
                                         1915
           Pits impracticable.
           Build a mound of stone, 3 ft. base, 2 ft. high W. of cor.
           Land, hilly.
           Soil,
                  stony, schist and quartz, 4th rate.
           No timber.
           Undergrowth, scrub palo verde, iron wood, greasewood,
                 ocotillos and cacti.
           East on a true line bet. secs. 4 and 33.
           Overrolling land, through dense undergrowth. Desc. NE. slope, 87 ft.
 5.00
           Desc. NE. slope,
          Wash, 20 lks. wide, 3 ft. deep, course, N. 10° E. Wash, 50 lks. wide, 5 ft. deep, course, N. 15° E. Knoll, 6 chs. in diam., brs. N. 10 chs. dist.
14.95
19.85
36 .00 m
38.90
           Foot of descent.
           Wash, 15 lks. wide, 4 ft. deep, course, N. 20° E.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for a sec. cor. with brass cap mkd.
40.00
                                      1915
          Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist.
                 and raise a mound of earth 32 ft. ase, 12 ft. high
                N. of cor.
           Thence over nearly level land.
          Wash, 30 lks. wide, 3 ft. deep, course, N. Wash, 20 lks. wide, 3 ft. deep, course, N. 20° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
42.70
74.90
00.08
                 the ground for cor. of secs. 3, 4, 33 and 34, with
                 brass cap mkd.
                                     T7SR1E
                                         33:S 34
                                      S 4 :S 3
T 8 S
                                         1915
           Dig pits 18 X 18 X 12 ins. in each sec. 5\frac{1}{2} ft. dist. and
                raise a mound of earth 4 ft. base, 2 ft. high W. of
                 cor.
          Land, level, and rolling.
Soil, stony, and gravelly, 4th rate.
           Timber, scrub palo verde and iron wood.
           Undergrowth, greasewood brush, ocotillos and cacti.
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19
                         South boundary of T.7 S.R.1
Chains
            East on a true line bet. secs. 3 and 34. Over gently rolling land, through scattering timber and
                  undergrowth.
            Desc. gradual NE. slope.
 29.80
            Wash, 70 lks. wide, 3 ft. deep, course, N. 15° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
40.00
                   the ground for \frac{1}{5} sec. cor. with brass cap mkd.
                                          1915
            Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high
                  N. of cor.
            Wash, 15 lks. wide, 2 ft. deep, couse, N. Wash, 40 lks. wide, 4 ft. deep, course, N. 20° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
52.80
 76 50
80.00
                  the ground for cor. of secs. 2, 3, 34 and 35, with
                  brass cap mkd.
                                       T 7 S R 1 E.
                                         S 34:S 35
                                            3 :S
                                           T 8 S
                                           1915
            Dig pits 18 X 18 X 12 ins. in each sec. 5\frac{1}{2} ft. dist. and
                  raise a mound of earth 4 ft. base, 2 ft. high, W. of
                  cor.
            Land, gently rolling.
            Soil, stony and gravelly, 3rd rate.
            Timber, palo verde, and iron wood.
            Undergrowth, greasewood brush, ocotillos and cacti.
            East on a true line bet. secs. 2 and 35.
            Over gently rolling land, through scattering timber and
                  undergrowth.
            Desc. gradual NE. slope.
            Wash, 50 lks. wide, 4 ft. deep, course, N. Enter level land.
Wash, 120 lks. wide, 4 ft. deep, course, N. Road, brs. N. and S.
   .50
11 .00
17.90
                     120 lks. wide, 4 ft. deep, course, N. 20° W.
18.70
            West end of rocky hill, 33 chs. long, E. and W. 50 to 120 ft. high, brs. N. 10 chs. dist.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
24.00
40.00
                  the ground for \frac{1}{2} sec. cor. with brass cap mkd.
                                         1915
            Dig pits 18 X 18 X12 ins. E. and W. of cor. 3ft. distand raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high
                  N. of cor.
            Enter land, covered with malpais rock.
50.00
            Asc. gradual W. slope.
           Wash, 15 lks. wide, 2 ft. deep, course, S. 80° W.

Set an iron post 3 ft. long, 3 ins. in diam., on surface rock, in a mound of stone, 4 ft. base, 2 ft. high for cor. of secs. 1, 2, 35 and 36, with brass cap mkd.

T 7 S R 1 E
70.40
00.08
                                         S 35:S 36
                                         S 2 :S 1
                                            T 8 S
                                            1915
            Pits impracticable.
            Build a mound of stone, 4 ft. base, 2\frac{1}{2} ft high W. of cor. Land, gently rolling; level from 11 chs. to 50 chs.
            Soil, gravelly, 50 chs. to 80 chs. covered with malpais rock.
                  3rd and 4th rates.
            Timber, palo verde and iron wood, and mesquite.
            Undergrowth, greasewood brush, ocotillos and cacti.
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0		South boundary of T.7 S. R.1 E.
	Chains	ur.
		East on a true line bet. secs. 1 and 36.
		Over gently rolling land, through scattering timber and
		undergrowth.
	40.00	Asc. gradual W. slope, 47 ft. to
	40.00	Set an iron post 3. it. long, l.in. in dism., 18 ins. in
		the ground to solid rock, in a mound of stone, 2 ft.
		base, 1 ft. high for \( \frac{1}{4} \) sec. cor. with brass cap mkd.
		5-1- 1915
		Build a mound of stone, 3 ft. base, 2 ft. high N. of cor.
	59 .00	Wash, 20 1ks. wide, 3 ft. deep, course, SW.
	67.50	Wash, 30 lks. wide, 4 ft. deep, course, S. 80° W.
	80.00	Cor. of Ts.7 and 8 S., Rs. 1 and 2 E.
		Land, gently rolling.
		Soil, stony. with gravel and malpais surface, 4th rate.
		Timber, palo verde and iron wood.
		Undergrowth, greasewood brush, ocotillos and cacti.
		Boundaries of T.7 S.,R.1 E.
		Latitudes, Departures and Closing Errors.
	2	Latitudes Departures.
	Line de	signated. True bearing. Dist. N. S. E. W.
		chs. chs. chs. chs. chs.
	West bd	
	North b	
	East bd	
	S-outh	· ·
	Converg	
	Totals	480.32 480.00 478.84 478.84
	Timen 4	480.00 n latitude .32 478.84
	カナナハナ   丁	
	From t	n departure .00

The Marie go

### Boundaries of T.6 St.R.1 E.

٠.	Lati	tudes, Departu	res and	Closin	g Error	8.	
·				Lati	udes.	Depar	tures.
Line de	signated.	True bearing.	Dist. chs.	N. ch <b>s</b> .	S. chs.	E. chs.	W. chs.
West bo	y.	North	480.00	480.00			
North b	dy.	East	477.88			477.88	
East bd	y.	South South	479.74		479.74		
South b	dy.	West	478.37				478.37
Converg	ency					.47	
Totals				480.00 479.74	479.74	478.35	478.31
Error i	n latitude	•		.26		478.31	
Error i	n departui	re				.04	

Resurvey of me

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South boundary of T.4 B. R.1 W
 chains
            Survey commenced Jan. 14, 1916 and executed with a Young
                   and Son's light mountain transit No.8521, with Smith
                   Solar attachment. The horizontal limb is fitted with
                   two double verniers placed opposite to each other
                   and reading to single minutes of arc, which is also
                   the least count of the verniers of the latitude and
                  declination arcs.
            From recent and repeated field tests, I know the transit
            and solar attachment to be in satisfactory adjustment.

Jan, 14, 1916, at 8h., a.m., l.m.t., I set off 33° 2' N. on
the lat. arc; 21° 24' S. on the deck. arc; and determine a mer. with the solar at the cor. of $28.4 and 5
                  S., Rs. 1 E. and 1 W., which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General.
            West along S. bdy. of sec. 36.

Over level land, through scattering timber and undergrowth.

Wash, 27 lks. wide, 3 ft. deep, course, N. 15° W.

Wash, 25 lks. wide, 2 ft. deep, course, NE.
    .10
 3.15
            Wash, 25 lks. wide, 2 ft. deep, course, NE.
Wash, 20 lks. wide, 3 ft. deep, course, N.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
29.80
37..70
40.00
                the ground for + sec. cor. with brass cap mkd. S 36
                                      $ 1
                                        1916
                  from which,
                        An iron wood, 14 ins. in diam., brs. N. 3\frac{1}{2}° E. 76 lks. dist. mkd. \frac{1}{4} S 36 B T.
                        A mesquite, 8 ins. in diam., brs. S. 79° E. 225 lks. dist. mkd. ‡ S 1 B T.
           Wash, 25 lks. wide, 2 ft. deep, course, NE. Wash, 12 lks. wide, 3 ft. deep, course, N. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with
40.25
75.30
80.00
                  brass cap mkd.
                                        T4SR1W
                                            35:S 36
2:S 1
                                                :S 1
                                            T 5 S
                                            1916
                  dig pits 18 X 18 X 12 ins. in each sec. 5\frac{1}{2} fit. dist. and raise a mound of earth 4 ft. base, 2 ft. high
                  W. of cor.
            Land, level.
            Soil, loose, sandy clay, lst rate.
            Timber, scattering iron wood, mesquite and palo verde.
            Undergrowth, greasewood.
            West along S. bdy. of sec. 35.
            Over level land, through scattering timber and undergrowth
           Wash, 15 lks. wide, 1 ft. deep, course, N. 30° W. Wash, 12 lks. wide, 3 ft. deep, course, NE. Set an iron post 3 ft. long, 1 in in diam., 26 ins. in
20.90
36.40
40.00
                  the ground for + sec. cor. with brass cap mkd. S 35
                                        1916
                 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft.
                  dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
                  high N. of cor.
            Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
00.08
                  the ground for cor. of secs. 2, 3, 34 and 35, with br
                  brass cap mkd.
                                        T4SR1W
                                         S 34:S
                                            3 :S 2
T 5 S
```

1916

24

Resurvey of

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South boundary of T.4 S. R.1 W
                                           T 4 S R 1 W
                                            S 32:S 33
                                            S 5 :S 4
T 5 S
                                                1916
                   dig pits 18 X 18 X 12 ins. in each sec. 5 ft. dist.
                   and raise a mound of earth 4 ft. base, 2 ft. high
                   W. of cor.
             Land, level.
Soil, loose sandy clay, 1st rate.
Timber, mesquite, palo verde and iron wood.
             Undergrowth, greasewood.
             Jan. 14, 1916, at this cor. I set off 21° 25' S. on the decl. arc; and at apparent noon observe the sun on the mer.; the resulting lat. is 33° 2' N.
             West bet. secs. 5 and 32. 2 Over level land, through scattering timber and under-
                   growth.
             Wash, 22 lks. wide, 3 ft. deep, course, N. 20° E. Wash, 20 lks. wide, 3 ft. deep, course, N. 45° E. Set an iron post 3 ft. long, l in. in diam., 26 ins. in
27.90
33.20
40.00
                   the ground for $\frac{1}{2}$ sec. cor. with brass cap mkd. $\S_1^35$
                                          1916
                   dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft.
                   dist. and raise a mound of earth 3½ ft. base, 1½ ft.
            high N. of cor.

Wash, 20 lks wide, 2 ft. deep, course, N. 10 W.

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, with
60.55
00.08
                   brass cap mkd.
                                          T 4 S R 1 W
                                            S 31:S 32
                                            S 6 :S 5
T 5 S
                                                1916
                   from which,
                         A palo verde, 8 ins. in diam., brs. N. 77\frac{1}{2} W. 27 O lks. dist. mkd. T. 4 S R l W.S 31 B T.
            No other trees within limits. Dig pits 18 X 18 X 12 ins. in each sec. 5\frac{1}{2} ft. dist. and
                   raise a mound of earth 4 ft. base, 2 ft. high W. of
                   cor.
            Land, level.
            Soil, loose sandy clay, lst rate.
            Timber, pao verde, mesquite and iron wood. Undergrowth, greasewood.
            West bet. secs. 6 and 31.
            Over level land, through scattering timber and under-
                   growth.
            Wash, 10 lks. wide, 2 ft. deep, course, NE. Wash, 15 lks. wide, 1 ft. deep, course, NE. Wash, 75 lks. wide, 3 ft. deep, course, N. 45° E. Set an iron post 3 ft. long, 1 in. indi am., 26 ins. in
 4.25
 6.65
10.39
40.00
```

the ground for 4 sec. cor. with brass cap mkd. S 31

1916

dig pits 18 X 18 X-12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3 ft. base, lift. high N. of cor.

BCCK 3071

26

Resurvey of South boundary of T.4 S Chains Wash, 20 lks. wide, 2 ft. deep, course, NE. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of Ts. 4 and 5 S., Rs. 1 and 2 W. 66.05 79.53 with brass cap mkd. T 4 S R 2 W R 1 W 36:S 31 1 :S 6 T 5 S 1916 dig pits 24 X 24 X 12 ins. on each line, N., E. and W., 4 ft. and S. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base, 21 ft. high S. of cor. Land, level. Soil, loose sandy clay, 1st rate. Timber, scattering palo verde and mesquite. Undergrowth, greasewood. WEST BOUNDARY OF T.4 S.,R.1 W. Jan. 24, 1916, at 9h., a.m., 1 m.t., I set off 33°2' N. on the lat. arc; 19° 23' S. on the decl. arc; and determine a mer. with the solar, at the cor. of Ts.4 and 5 S., Rs.1 and 2 W. heretofore described. Thence North bet. secs. 31 and 36.
Over level land, through scattering timber and under-15.15 Wash, 15 lks. wide, 2 ft. deep, course, NE. Wash, 20 lks. wide, 2 ft. deep, course, N. 75° E. Wash, 15 lks. wide, 3 ft. deep, course, N. 80° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 4 sec. cor. with brass cap mkd. 30.20 39.35 40.00 S 36 \(\frac{1}{4}\):S 31 1916 from which, A palo verde, 12 ins. in diam., brs. S.  $47\frac{1}{2}$ ° E. 41 lks. dist. mkd.  $\frac{1}{4}$  S 31 B T. No other trees within limits. . Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Wash, 20 lks. wide, 2 ft. deep, course, E. 59.30 Wash, 15 lks. wide, 2 ft. deep, course, S. 75° E.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
the ground for cor. of secs. 25, 30, 31 and 36, with 68.50 80.00 brass cap mkd. T 4 S R 2 W:R 1 W 25:S 36:S 31 1916

dig pits 18 X18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, leve. Soil, loose sandy clay, lst rate. Timber, scattering mesquite, palo verde, iron wood and cat claw. Undergrowth, greasewood.

North bet. secs. 25 and 30. Over level land, through scattering timberand undergrowth.

11.85

Wash, 30 lks. wide, 3 ft. deep, course, N. 60° E.

No other trees within limits.

Dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and

◆ ECCK 3071 28 West boundary of T.4 S Chains raise a mound of earth 4 ft. base, 2 ft. high Land, level. Soil, loose sandy clay, lst rate. Timber, scattering palo verde, mesquite, iron wood and cat claw. Undergrowth, greasewood. North bet. secs. 13 and 18. Over level land, through scattering timber and undergrowth. Leave level land, and asc. SW. slope, 239 ft. to Set an iron post 3 ft. long, 1 in. in diam., on surface rock, in a mound of stone, 3 ft. base, 2 ft. high for \( \frac{1}{4} \) sec. cor. with brass cap mkd. 30.00 40.00 S 13 4:S 18 1916 Pits impracticable. Build a mound of stone, 2 ft. base, light. high W. of cor. Asc. SW. slope, 51 ft. to Spur slopes SE. desc. NE. slope, 46 ft. to 41.84 46.79 Draw, course, E., asc. SE. slope, 337 ft. to 71.24 Same spur, slopes, SW., asc. SW. slope, 149 ft. to Set an iron post 3 ft. long, 3 ins. in diam., on surface 00.08 rock, in a mound of stone for cor. of secs. 7, 12, 13, and 18, with brass cap mkd.
T 4 S R2WR1W 12:S 7 S 13:S 18 1916 Pits impracticable. Build a mound of stone, 2 ft. base, lt ft. high W. of cor. Land, mountainous and level. Soil, loose sandy clay, 1st rate, on level land, remainder loose decomposed granite, 3rd and 4th rates. Timber, palo verde, mesquite, iron wood and cat claw. Undergrowth, greasewood and cacti. on the lat. arc; 17° 19' S. on the decl. arc; and determine a mer. with the solar at the cor. of secs. 7, 12, 13 and 18. Thence North bet. secs. 7 and 12. Asc. SW. slope, 23 ft. to 1.25 Ridge brs. SE . and W. . desc. N. slope, 869 ft.to Set an iron post 3 ft.long, 1 in.in diam., 26 ins. in the ground for 4 sec. cor. with brass cap mkd. 40.00 S 12 1:S 7 1916 and build a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Desc. N. slope, 23 ft. to. 43.25 Wash, 15 lks. wide, 5 ft. deep, course, NE. Thence over level land. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 80.00 the ground for cor. of secs. 1, 6, 7 and 12, with brass cap mkd.

T 4 S R 2 W R 1 W :S 6 S 1 :S S 12:S 1916

000% 3071

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West boundary of T.4 S.R.1 W.
Chains
                   from which,
                          An iron wood 6 ins. in diam., brs. N. 26\frac{1}{2}° E. 152 lks. dist. mkd. T 4 S R 1 W S 6 B T.
                          An iron wood, 8 ins. in diam., brs. S. 103° E. 44 lks. dist. mkd. T 4 S R 1 W S 7 B T.
                          An iron wood, 6 ins. in diam., brs. N. 45\frac{1}{2}° W. 159 lks. dist. mkd. T 4 S R 2 W S 1 P T.
            No other trees within limits.
            Dig pits 18 X18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of
             Land, mountainous and level,
             Soil, granite stony, 4th rate, to 50 chs., remainder,
             decomposed granite, and sandy clay, lst rate. Timber, scattering palo verde and iron wood.
            Undergrowth, greasewood and cacti.
            North bet. secs. 1 and 6.
             Over level land, through scattering timberand under-
                   growth.
            Wash, 12 lks. wide, 1 ft. deep, course, E. Wash, 15 lks. wide, 1 ft. deep, course, NE. Wash, 12 lks. wide, 2 ft. deep, course, N. 75° E. True point for 4 sec. cor. falls in wash, 20 lks. wide, 1
 1.60
11.10
30.80
40.00
             ft. deep, course, N. 45° E. therefore at
Set an iron post3ft. long, 1 in. in diam., 26 ins. in
39 -80
                   the ground for W.C. sec. cor. with brass cap mkd.
                                                W.C
                                         S 1 \frac{1}{4} : S 6
                                               1916.
                   from which,
                         An iron wood, 10 ins. in diam., brs. N. 54\frac{1}{2}P E.
                                202 lks. dist. mkd. W C \frac{1}{4} S 6 B T
            An iron wood, 18 ins. in diam., brs. S. 75\frac{1}{2}° W. 121 1ks. dist. mkd. W C \frac{1}{4} S 1 B T

Set an iron post3ft. long, 3 ins. in diam., 24 ins. in the ground for cr. of Ts.3.and 4 S., Rs.1 and 2 W.
00.08
                   with brass cap mkd.
                                               T 3 S
                                          R 2 W R 1 W
                                            S 36:5 31
S 1 :S 6
T 4 S
                                                1916
                   dig pits 24 X 24 X 12 ins. N., E. and W., 4 ft. and
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S. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base, 2 ft. high S. of cor.

Land, level.
Soil, loose sandy clay, lstrate.
Timber, iron wood, palo verde and mesquite.

Undergrowth, greasewood.

30 North bounder of T.4 S. Chains Survey commenced Jan. 24, 1916, and executed with a Young and Son's light mountain transit No. 8592, as described in book "A". From recent and repeated field tests of the transit and solar attachment, I know them to be in satisfactory adjustment. At 9h., a.m., l.m.t., I set off 33° 7' N. on the lat. a 19° 23' S. on the decl. arc; and determine a mer. I set off 33° 7' N. on the lat.arc; with the solar, at the cor. of Ts.3 and 4 S., Rs. 1 E. and 1 W. heretofore described. Thence West on a random line, setting temp. 2 sec. and sec. cors. at intervals of 40 chs., and at 479.06 chs. fall 2 lks. N. of cor. of Ts.3 and 4 S., Rs. 1. and 2 W., heretofore described. Thence East on a true line bet. secs.6. and 31. Over level land, through scattering timber and undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 39.06 the ground for \( \frac{1}{4} \) sec. cor. with brass cap mkd. S 31 NAIL  $S_{x}6$ dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. 42.16 Wash, 10 lks: wide, 1 ft. deep, course, NE. Wash, 15 lks. wide, 1 ft. deep, course, NE.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
the ground for cor. of secs. 5, 6, 31 and 32, with 64.05 79.06 brass cap mkd. T 3 S R 1 W S 31:S 32 :S 5 T 4 S 1916 from which, . An iron wood, 8 ins. in diam., brs. N. 87° E. 221 lks. dist. mkd. T 3 S R 1 W S 32 B T. An iron wood, 6 ins. in diam., brs. N. 35° W. 353 1ks. dist. mkd. T 3 S R 1 W S 31 B T. No other trees within limits. Dig pits 18  $\times$  18  $\times$  12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, loose sandy clay, 1st rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood .-- At this cor . I set off 190 21' S. on the decl. arc; and at apparent noon observe the sun on the mer.; the resulting lat. is 33° 7' N. East on a true line bet. secs. 5 and 32. Over level land, through scattering timber and undergrowth. Wash, 10 lks. wide, 1 ft. deep, course, N. 30° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 21.00 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  $\frac{1}{5}$  32 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33 with 00.08 brass cap mkd.

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31
                      North boundary of T.4 S., R.1 W.
 Chains
                                   T 3 S R 1 W
                                     8 32:8 33
                                       5 :S 4
                                       T 4 S
                                         1916
                dig pits 18 X 18 X12 ins. in each sec. 5\frac{1}{2} ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high
                W. of cor.
          Land, level.
Soil, loose sandy clay, 1st rate.
Timber, scattering palo verde and mesquite.
           Undergrowth, greasewood.
           East on a true line bet. secs. 4 and 33.
           Over level land, through scattering timberand under-
                growth.
           Wash, 35 lks. wide, 3 ft. deep, course, N. 10° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
13.50
40.00
                the ground for \frac{1}{4} sec. cor. with brass cap mkd.
                                   S .
                                      33
                                   1916
                dig pits 18 X18 X 12 ins. E. and W. of cor. 3 ft.
                dist. and raise a mound of earth 3½ ft. base, 1½ ft.
                high N. of cor.
          Wash, 40 lks. wide, 3 ft. deep, course, N. 20° W. Wash, 80 lks. wide, 3 ft. deep, course, N. 10° W. Wash, 30 lks. wide, 1 ft. deep, course, N. 20° W. Set an iron post 3 ft. long, 3 ins. in diem., 24 ins. in the ground for cor; of secs. 3, 4, 33 and 34, with
41.30
46.50
55.00
80.00
                brass cap mkd.
                                   T3SR1W
                                      33:S 34
                                       4 :S 3
T 4 S
                                        1916
                dig pits 18 X 18 X 12 ins. in each sec. 5 ft. dist.
                and raise a mound of earth 4 ft. base, 2 ft. high
                W. of cor.
          Land, level.
          Soil, loose sandy clay, 1st rate.
          Timber, scattering palo verde and mesquite.
          Undergrowth, greasewood.
          East on a true line bet. secs. 3 and 34.
          Over level land, through scattering timber and under-
                growth.
40.00
          Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
                the ground for \frac{1}{4} sec. cor. with bress cap mkd. S 34
                                   1916
                dig pits 18 X 18 X 12 ins . E. and W. of cor. 3 ft.
                dist. and raise a mound of earth 3½ ft. base, 1½ ft.
          high N. of cor.

Wash, 35 lks. wide, 3 ft. deep, course, N.

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
73.50
80.00
                the ground for cor. of secs. 2, 3, 34 and 35, with
                brass cap mkd.
                                   T 3 S R 1 W
                                    S 34:8 35
                                       3. :S 2
                                       T. 4 S
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1916

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32
                      North boundary of T.4 S
   Chains
                 dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.
                 and raise a mound of earth 4 ft. base, 2 ft. high,
                 W. of cor.
            Land, level.
            Soil, sandy clay, 1st rate.
            Timber, none.
            Undergrowth, greasewood.
            East on a true line bet. secs. 2 and 35.
            Over level land, through scattering timber and under-
                 growth.
   40.00
            Set an iron post 3 ft.long, 1 in. in diam., 26 ins.in
                 the ground for \frac{1}{4} sec. cor. with brass cap mkd. S 35
                                 1916
                 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
                 high N. of cor.
   00.08
            Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
                 the ground for cor. of secs. 1, 2, 35 and 36, with
                 brass cap mkd.
                                 T 3 S R 1 W
                                  S 35:S 36
                                    2:51
                                     T 4 S
                                      1916
                 dig pits 18 X 18 X12 ins. in each sec. 5\frac{1}{2} ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high
                 W. of cor.
            Land, leve.
                   loose sandy clay, 1st rate.
            Soil,
            No timber.
            Undergrowth, greasewood.
            East on a true line bet. secs. 1 and 36.
            Over level land, through scattering timber and under-
                 growth.
            Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
   40.00
                 the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. \(\S^2 36\)
                 dig pits 18 ^{\Lambda} 18 ^{X} 12 ins. E. and W. of cor. 3 ft.
                 dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
                 high N. of cor.
   00.08
            Cor. of Ts.3 and 4 S., Rs. 1 E. and 1 W.
            Land, level. Soil, loose sandy clay, lst rate.
            No timber.
            Undergrowth, greasewood.
                        Boundaries of T.4 S., R.1 W.
                 Latitudes, Departures and Closing Errors.
                                                                 Departures
                                                 Latitudes
                                                  N.
                                                                           W.
                                                          s.
                                                                  1
   Line designated. True bearing. Dist.
                                                          chs.
                                                                  chs.
                                                                          chs.
                                         chs.
                                                 .chs.
   West bdy.
                                        480.00 480.00
                       North
                                                                479.06
                                        479i.06
   North bdy.
                       East
                                                        480.00
                                        480.00
                       South
   East bdy.
                                                                        479.53
   South bdy.
                                        479.53
                       West
                                                                    .47
    Convergency
                                                480.00 480.00 479.53 479.53
    Totals
                                                        480.00
                                                                         479.53
                                                            .00
   Error in departure
                                                                             •0d
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	Retracement of the W. Boundary of T. 4 S., R. 2 E.	37
Chains	Survey commenced Jan. 14, 1916, and executed with a Young and Son's light mountain transit No. 8592, as	
	described in book "A". From recent and repeated field tests of the transit and solar attachment, I know them to be in satisfactory	
	adjust ment.  Jan. 14, 1916, at 9h., a.m., l.m.t., I set off 33° 2' N. on the lat. arc; 21° 29' S. on the decl. arc; and deter-	
	mine a mer. with the solar, at the NE. cor. of T. 5 S., R. 1 E., which I established Dec. 18, 1915. On Dec. 18, 1915, diligent search in this vicinity failed	
	to reveal any trace of the original cor. of Ts. 4 and 5 S., Rs. 1 and 2 E.  Jan. 14, 1916, after diligent search, find no trace of	
,	original cor. of Ts. 4 and 5 S., Rs. 1 and 2 E. Thence. North along W. bdy. of sec. 31.	
40.00	After diligent search, find no trace of original 4 sec.	
80.00	Set. temp. $\frac{1}{4}$ sec. cor.  After diligent search, find no trace of cor. of secs.  25, 30, 31 and 36.	
	Set temp. cor. of secs. 30 and 31.	
40.00	North along W. bdy. of sec. 30. After diligent search, find no trace of original \( \frac{1}{4} \) sec. cor.	
80.00	Set temp. ½ sec. cor.  After diligent search, find no trace of original cor. of secs. 19, 24, 25 and 30.	
·	Set temp. cor. of secs. 19 and 30,	
40.00	North along W. bdy. of sec. 19. After diligent search, find no trace of original 4 sec. cor.	
80.00	Set temp. sec. cor.  After diligent search, find no trace of original cor. of secs. 13, 18, 19 and 24.  Set temp. cor. of secs. 18 and 19.	
40.00	North along W. bdy. of secs. 18.  After diligent search, find no trace of original \( \frac{1}{4} \) sec.  cor.	
84.71	Set temp. \(\frac{1}{4}\) sec. cor.  Cor. of secs. 7 and 18, SW. cor. of Gila River Indian  Reserve, which is an iron post, 3 ins. in diam.,	
	properly set, mkd. and witnessed as described by the Surveyor General, brs. E. 396 lks. dist.	
•	Jan. 19, 1916, at 9h.,a.m.,l.m.t., I set off 33° 5' N. or	
	the lat. arc; 20° 19' S. on the decl. arc; and determine a mer. with the solar, at the cor. of secs.  7 and 18.  Thence	
43.27	North along W. bdy. of sec. 7.  ½ sec. cor. of sec. 7, which is an iron post, 1 in. diam., properly set, mkd. and witnessed as described by the Surveyor Ceneral, brs. E. 2 lks. dist.; True course of line back to sec. cor. is S. 0° 2' W.	,
40.04	Set over \$\frac{1}{4}\$ sec. cor. and continue line North.  Cor. of secs. 6 and 7, which is an iron post, 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General, brs. W. 5 lks. dist.  True course of line back to \$\frac{1}{2}\$ sec. cor. is \$S. 0. 4. W.	
1		

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Retracement of the W. Boundary of T. & S.
Cha ins
             Set over sec. cor. and continue line North. Along W. bdy. of sec. 6.
             WC.tozcorofsec. 6, which is an iron post, I in. diam.
36.38
                   properly set, mkd. and witnessed as described by the
             Surveyor General, brs. E. 2 lks. dist.

True point for 4 cor. of sec. 6, brs. E. 2 lks. dist.

True course of line back to sec. cor. is S. 0° 2' W.

Set over true point. and continue line North.
39.88
             cor. of Ts. 3 and 4 S., Rs.2 E., which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General, brs. W. 3 lks. dist. True course of line back to \( \frac{1}{4} \) sec. cor. is S. 0° 3' \( \frac{1}{8} \).
40.14
             RESURVEY OF PORTION OF WEST BOUNDARY OF T. 4 S., R. 2 E.
             Mar. 10, 1916, at 2h.,p.m.,l.m.t., I set off 33° 5' N. on the lat. arc; 3° 58' S on the decl. arc; and determine a mer. with the solar, at the cor. of secs.
                    7 and 18.
             On this cor. I mark,
S 1º in Sw. quadrant,
                   destroy pits N. and E. of cor. and mound, and dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor.
             Thence
             South along W. bdy. of sec. 18.
             Over level land, through scattering timber and under-
                   growth.
             Road brs. E. and W.
19.80
             Asc. NW. slope of hill, 189 ft. to
Top of hill brs. E. and W., desc. SW. slope, 53 ft. to
Set an iron post, 1 in. diam., 1 in. in the ground, to
solid rock, in a mound of stone, 2 ft. base, 1½ ft.
high, for ½ sec. cor. with brass cap mkd.
20.00
37.20
40.00
                                                                 4 s 18
                                                             1916
                   and build a mound of stone, 2 ft. base, 12 ft. high,
             E. of cor.
Desc. 74 ft. to
Asc. 29 ft. to
45.00
             Desc. S.slopd, 88 ft. to
Enter level land, brs. E. and W.
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 18 and 19, with brase cap
50.00
66.80
80.00
                   mkd.
                                                                 :T 4 S :R 2 E
                                                                  <u>:</u>s 18
                                                                  :8 19
                                                             1916
                   dig pits, 24 X 24 X 12 ins. in each sec., 6 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high,
             \mathbb{E}_{\:\raisebox{1pt}{\text{\circle*{1.5}}}} of cor. Land, level and hilly.
              Soil, sandy, 2nd rate and stony, 4th rate.
             Timber, scattering palo verde and ironwood.
             Undergrowth, greasewood, ocotillos and giant cacti.
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Resurvey of portion of West boundary of T.4 S. R.2 E.
Chains
          South along W.bdy. of sec. 19.
          Over level land, through scattering undergrowth.
          Road, Maricopa to Gila Bend, brs. E. and W. Telegraph line parallels S.P.R.R. line.
11.20
11.97
          Main line of the S.P.R.R., brs. S. 82° W. and N. 82° E. Telephone line parallels S.P.R.R. line.
12.58
15.70
          Road, brs. N. 30° E. and S. 30° W.
29.50
40.00
          Set an iron post 3 ft. long, ] in. in diam., 26 ins.in
                the ground for 1 sec. cor. with brass cap mkd.
               1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
               high E. of cor.
00.08
          Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
               the ground for cor. of secs. 19 and 30, with brass
               cap mkd.
                                   T 4 S
                                  :R 2 E
                                  :S 19
                                  :530
                                1916
               dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist.
               and raise a mound of earth 4 ft. base, 2 ft. high
               E. of cor.
          Land, level. Soil, sandy adobe, lst rate.
          No timber.
          Undergrowth, greasewood and scattering mesquite brush.
          South along W. bdy. of sec. 30.
          Over level land, through scattering timber and undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec. cor. with brass cap mkd.
40.00
                                   🔒 S 30
                                1916
               dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft.
               dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
               hagh E. of cor.
          Wash, 10 lks. wide, & ft. deep, course, NW.
49.70
          Wash, 10 lks. wide, \frac{1}{2} ft. deep, course, NW. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
59.70
00.08
               the ground for cor. of secs. 30 and 31, with brass
               cap mkd.
                                  :B 2 E
                               1916
               dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high
               E. of cor.
          Land, level.
          Soil, sandy adobe, 1st rate.
          Timber, scattering palo verde.
          Undergrowth, greasewood.
          South along W. bdy. of sec. 31.
          Over level land, through scattering timber and under-
               growth.
          Wash, 15 lks. wide, 1 ft. deep, course, NW. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
11.50
40.00
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the ground for & sec. cor. with brass cap mkd.

BOOK 2071

36	Resurvey of portion of West boundary of T.4 S. R.2 F.
Chains	Meditivey of pototon of west boundary of the bank.
	1/4 S 31
60.70 71.70 74.80 80.00	1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base, ½ ft. high E. of cor.  Enter dense growth of mesquite brush, brs. NW. and SE. Wash, 15 1ks. wide, 1 ft. deep, course, NW.  Leave dense growth, of mesquite brush, brs. NW. and SE. Set an fron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of Tsc4 and 5 S.,Rs. 2 E.with brass cap mkd.  T 4 S  18 2 E  18 31  25 6  1916 from which,  A mesquite, 6 ins. in diam., brs. N. 69° 45' E.  76 1ks. dist. mkd. T.4. S R 2 E S 31 B T.  No other trees within limits.  Dig pits 30 X 24 X 12 ins. on each line N. and S. 4 ft. and E. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base, 2½ ft. high E. of cor.  Land, level.  Soil, sandy adobe, 1st rate.  Timber, scattering mesquite and palo verde Undergrowth, greesewood and mesquite brush.

37 North boundary of T.4 S. R.1 E. Chains Survey commenced Jan. 23, 1916, and executed with a Young and Sons light mountain transit No.8592, as described in book "A". From recdnt andrepeated field tests of the transit and solar attachment, I know them to be in satisfactory adjustment. At 9h., a.m., l.m.t., I set off 33° 7' N. on the lat. arc; 19° 37' S. on the decl. arc; and determine a mer. with the solar, at the cor. of Ts. 3 and 4 S., Rs. 1E. and l W., which is an iron post 3 ins. in diam., properly set mkd. and witnessed as described by the Surveyor General. Thence East on a true line bet. secs. 6 and 31. Over level land, through scattering timber and undergrowth. 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor. with bress cap mkd. S 31 S 6 1916. dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3t ft. base, 1t ft. high N. of cor. 24 ins. in 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., the ground for cor. of secs. 5, 6, 31 and 32, with brass cap mkd. T 3 S R 1 E 31:8 3 S 6 :S T 4 S 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy loam, 1st rate. Timber, scattering mesquite. Undergrowth, greasewood. East bet. secs. 5 and 32. Over level land, through scattering timber and undergrowth. Wash, 35 lks. wide, 5 ft. deep, course, N. 50° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec. cor. with brass cap mkd. \( \text{S} \) 32 10.20 40.00 S 5 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3 ft. base, 1 ft. high N. of cor. Set an iron post 3 ft. long, 3 ins.in diam., 24 ins.in the ground for cor. of secs. 4, 5, 32 and 33, with 80.00 brass cap mkd. T 3 S R1 E 32:8 33 5 :S 4 T 4 S 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 tt. base, 2 ft. high W. of cor. Land, level. Soil, sandy loam, 1st rate. Timber, scattering mesquite. Undergo wth, greasewood 4 to 6 ft. high.

```
38
                       North boundary of T
  Chains
            East bet. secs. 4 and 33.
            Over level land, through scattering timber and under-
                 growth.
            Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
  40.00
                 the ground for 4 sec. cor. with brass cap mkd. S. 33
                                   1916
                 dig pits 18 X18 X 12 ins. E. and W. of cor. 3 ft.
                 dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
                 high N. of cor.
            Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, with
  80.00
                 brass cap mkd.
                                   T 3 S R 1 E 1
                                       33:S
                                     S 4 :S 3
                                       T 4 S
                                        1916
                 dig pits 18 X18 X 12 ins. in each sec. 5\frac{1}{2} ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high
               W. of car.
            Land, level.
            Soil, sandy loam, 1st rate.
            Timber, scattering mesquite.
            Undergrowth, greasewood, 4 to 6 ft. high.
            East bet. secs. 3 and 34.
            Over level land, through scattering timber and under-
                 growth.
   1.70
            Road, brs. NW. and SE.
            Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec. cor. with brass cap mkd. \( \frac{34}{34} \)
  40.00
                                   1916
                 dig pits 18 X18 X 12 ins. E. and W. of cor. 3 ft.
                 dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2}ft.
                 high N. of cor.
            Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
  80.00
                 the ground for cor. of secs. 2, 3, 34 and 35, with
                 brass cap mkd.
                                   T3SR1E
                                      <u>34:S 35</u>
                                       3 :S 2
                                       T 4 S
                                        1916
                 dig pits 18 X 18 X12 ins. in each sec. 5\frac{1}{2} ft. dist.
                 and raise a mound of earth 4 ft. base, 2 ft. high
                 W. of cor.
            Land, level.
            Soil, sandy loam, 1st rate.
            Timber, scattering palo verde and iron wood.
            Undergrowth, greasewood.
            East bet. secs. 2 and 35.
            Over hilly land, through scattering timber and under-
                 growth.
            Asc. gradual, SW. slope, 100 ft. Enter rocky land, decomposed granite.
  10.00
            Wash, 40 lks. wide, 5 ft. deep, course, SW.
  12.70
            Wash, 80 lks. wide, 10 ft. deep, course, SW. Wash, 50 lks. wide, 6 ft. deep, course, SW. Foot of mountains. Asc. SW. slope, 100 ft. to Set an iron post3 ft. long, 1 in. in diam., 12 ins. in
  25.80
  34.00
  35.00
  40.00
                 the ground to solid rock, in a mound of stone, 2 ft.
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39
                     North boundary of T.4 S.
Chains
                base, 1 ft. high, for \frac{1}{4} sec. cor. with brass cap mkd.
                                  S 35
                                  <u></u>
                                  S 2
                                  1916
                and build a mound of stone, 3 ft. base, 2 ft. high
                N. of cor.
          Asc. SW. slope, 115 ft. to
          Spur slopes NW., asc. over W. and NW. slope, 503 ft. to
51.50
62.50
          Top of spur ridge, slopes S. 20° W. 817 ft. above level
          Desc. over broken SE.slope, 194 ft. to Asc. 78 ft. to
67.50
          Desc. SE. slope, 269 ft. to
Set an iron post on surface rock, in a mound of stone,
71.90
00.08
                4 ft. base, 3 ft. high, for cor. of secs. 1, 2, 35 and
                36, with brass cap mkd.
                                  T 3 S R 1 E
                                   S 35:S 36
                                      2 :S 1
T 4 S
                                       1916
                and build a mound of stone, 3 ft. base, 2 ft. high
               W. of cor.
          Land, mountainous,
          Soil, Focky, granite and quartz, 4th rate.
          Timber, scattering palo verde.
          Undergrowth, scattering greasewood, ocotillos and cacti.
          East bet. secs. 1 and 36.
          Over mountainous land, through scattering timber and under
               growth.
          Desc. broken SE. slope, 23 ft. to Asc. SW. slope, 130 ft. to
5.00
          Thence along S. slope, to
10.72
11.50
          Asc. SW. slope, 401 ft. to
          Riadge brs. N. 40° W. and S. 50° E., 936 ft. above level
28.00
                land.
          Desc. NE. slope, 313 ft. to
Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in
40.00
               the ground to solid rock, in a mound of stone, 3 ft. base, 2 ft. high, for 4 sec. cor. with brass
                cap mkd.
                                  1916
          Pits impracticable.
          Build a mound of stone, 3 ft. base, 2 ft. high N. of cor.
          Desc. NE. slope, 100 ft. to
Asc. NW. slope, 75 ft. to
Des. NE. slope, 377 ft. to cor.
Ravine, 60 lks. wide, 16 ft. deep, course, N. 70° E.
Intersect W. bay. of T.4 S.,R.2 E., 8 chs. S. of cor. of
46.10
49.30
73.10
83.13
               Ts.3 and 4 S., Rs.2 E., heretofore described.
          Set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground, to solid rock, in a mound of stone, 3 ft. base, 2 ft. high, for C.C. of Ts.3 and 4 S., Rs. 1 E., with brass cap mkd.
                                  T 3 S
                                  R 1 E:
                                  S 36:
                                       C:
                                       1916
               and build a mound of stone, 3 ft. base, 2 ft. high
```

W. of cor.

Chains

North boundary of T.4 S., R.1

Land, mountainous.
Soil, rocky, granite and quartz, 4th rate.
Timber, scattering scrub palo verde.
Undergrowth, greasewood, ocotillos and cacti.

### Boundaries of T.4 S.,R.1 E.

## Latitudes, Departures and Closing Errors.

	and the second s	•	Latitudes.		Depar'	tures.
Line design	ated. True bearing		N. chs.	S. chs.	E. chs.	W. chs.
West bdy	North	4480.00	480.00		43.14	
North bdy.	East	483.13	· - t		483.13	
East bdy.	S. 0 3' E.	35.64		35.64	• <b>0</b> 3	•
, ,	S. 0° 2' W.	36.38	,	36.38		.02
	S. 0° 4' W.	40.04		40.04	,	•05
	s. 0° 2' W.	43.27		43.27		•02
	S outh	324.71		324.71		
South bdy.	West	483.60		571		483.60
Convergency					.47	
Totals			480.00	480.04	483.63	483.69
•	:			480.00		
Error in la	titude			.04		483.63
Error in de	parture		•		*	.06

the ground for cor. of secs. 4, 5, 32 and 33, with

00.08

brass cap mkd.

```
North boundary of TS3.S. R.1 V.
Chains
                               T2SR1W
                                  32:S 33
                                     :S
                                  T 3 S
                                   1916
              dig pits 18 X 18 X 12 ins. in each sec. 5\frac{1}{2} ft. dist.
              and raise a mound ofearth 4 ft. base, 2 ft. high
              W. of cor.
         Land, level.
Soil, sandy loam, lst rate.
         Timber, scattering palo verde and iron wood.
         Undergrowth, greasewood and mesquite brush.
         East on a true line bet. secs. 4 and 33.
         Over level land, through scattering undergrowth.
         Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
40.00
           the ground for 1 sec. cor. with brass cap mkd.
                              S 33
                              1916
              dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft.
              dist. and raise a mound of earth 32 ft. base, 12 ft.
              high N. of cor.
         Set an iron post 3 ft. long, 3 ins. in diam., 2 ins. in
80.00
              the ground for cor. of secs. 3, 4, 33 and 34, with
              brass cap mkd.
                              T 2 S R 1 W
                                 33:S
                                  4 :8 3
                                  T 3 S
                                   1916
              dig pits 18 X 18 X 12 ins. in each sec. 5\frac{1}{2} ft. dist.
              and raise a mound of earth 4 ft. base, 2 ft. high
             W. of cor.
         Land, level. Soil, sandy loam, 1st rate.
         No timber.
         Undergrowth, greasewood and mesquite brush.
         East on a true line bet. secs. 3 and 34.
         Over level land, through scattering undergrowth.
         Wash, 10 lks. wide, 1 ft. deep, course, S. 80° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
14.60
40 00
              the ground for \frac{1}{4} sec. cor. with brass cap mkd. S 34
                              1916
             dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
             high N. of cor.
         Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with
80.00
              brass cap mkd.
                                T 2 S R 1 W
                                 S 34:S 35
                                   3 :S 2
T 3 S
                                    1916
              dig pits 18 X 18 X 12 ins. in each sec. 5\frac{1}{2} ft. dist.
              and raise a mound of earth 4 ft. base, 2 ft. high
             W. of cor.
         Land, level.
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Soil, sandy loam, 1st rate.

	North boundary of T.3 S.R.1 W. 43
Chains	No timber. Undergrowth, greasewood and mesquite.
	East on a true line bet. secs. 2 and 35.  Over level land, though scattering timber and undergrowth.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd.  S 35
80.00	S 2 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
	the ground for cor. of secs. 1, 2, 35 and 36, with brass cap mkd.  T 2 S R 1 W  S 35:S 36  S 2:S 1
	T 3 S 1916 dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, level. Soil, sandy loam, lst rate. Timber, mesquite. Undergrowth, greasewood, and cacti.
	East on a random line bet. secs. 1 and 36.  Over level land, through a cattering undergrowth.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{2}\) sec. cor. with brass cap mkd.  S 36
	S1 1916 dig pits 18 X 18 X12 ins. E. and W. of cor. 3 ft.
80.00	dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.  Cor. of Ts.2 and 3 S., Rs.1 E and 1 W., heretofore described.  Land, level.
	Seil, sandy loam, lst rate. No timber. Undergrowth, greasewood, scattering mesquite and cacti.
1 .	The state of the s

44 West boundary of T.3 S.R.1 W. Chains Feb. 3, 1916, at 9h., a.m., 1.m.t., I set off 33° 7' N. on the lat. arc; 16° 45' S. on the decl. arc; and determine a mer. with the solar, at the cor. of Ts.3 and 4 S., Rs. 1 and 2 W., heretofore described. Thence North bet. secs. 31 and 36. Over level land, through scattering timber and undergrowth. Wash, 15 lks. wide, 2 ft. deep, course, N. 300 E. Wash, 15 lks. wide, 2 ft. deep, course, N. 300 E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 11.80 26.70 40.00 the ground for 1 sec. cor. with brass cap mkd.  $S 36 \frac{1}{4}:S 31$ 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.
Wash, 15 lks. wide, 1 ft. deep, course, NE.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 49.80 00.08 the ground for cor. of secs. 25, 30, 31 and 36, with brass cap mkd. T 3 S R 2 W:R 1 W S 25:S 30 S 36:S 31 1916 dig pits 18 X 18 X12 ins. in each sec.  $5\frac{1}{6}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy clay, lst rate. Timber, scattering palo verde and iron wood. Undergrowth, greasewood. North bet. secs. 25 and 30. Over level land, through scattering timber and undergrowth. 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec. cor. with brass cap mkd. S 25 1:S 30 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Wash, 10 lks. wide, 1 ft. deep, course, N. 40° E. Set an iron post 3 ft. long, 3 ins. in diam, 24 ins. in 65.20 80.00 the ground for cor. of secs. 19, 24, 25 and 30, with brass cap mkd. T 3 S R 2 W R 1 W S 24:S 19 S 25:S 30 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy clay, 1st rate. Timber, palo verde and iron wood. Undergrowth, greasewood.

North bet. secs. 19 and 24. •

growth.

Over level land, through scattering timber and under-

45 West boundary of T.3 S. R.1 W Chains Wash, 20 lks. wide, 1 ft. deep, course, N. 60° E. Wash, 15 lks. wide, 1 ft. deep, course, N. 50° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 8.70 14.10 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 24  $\frac{1}{4}$ :S 19 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 it. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor. Set an iron post 3 ft. long, 3 ins.in diam., 24 ins.in 80.00 the ground for cor. of secs. 13, 18, 19 and 24, with T 2 S brass cap mkd. R2WR1W S 13:S 18 S 24:S 19 1916 dig pits 18 X 18 X 12 ins. in each sec. 5 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy clay, lst rate. Timber, palo verde and iron wood. Undergrowth, greasewood. North bet. secs. 13 and 18. Over level land, through scattering timber and undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for t sec. cor. with brass cap mkd. S 13 1:3 18 1916 dig pits 18  $\times$  18  $\times$  12 ins. N. and S. ofcor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, with brass cap mkd. T3S R2WR1W 13:S 18 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft.dist. and raise a mound of earth 4 ft. hase, 2 ft. high We of cor. Land, level. Soil, sandy clay, lstrate. Timber, palo verde and iron wood. Undergrowth, greasewood. North bet. secs. 7 and 12. Over level land, through scattering timber and under-Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. S 12 1:S 7 1916 dig pits 18 X 18 X 12 ins. N. and S. ofcor. 3 ft. dist. and raise a mound of earth 32 ft. base, 12 ft.

high W. of cor.

Error in departure

46 West boundary of T.3 S.R.1 W. Chains Wash, 10 lks. wide, 1 ft. deep, course, N. 30° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, with 75.00 00.08 brass cap mkd. T 3 S R 2 W R 1 W :S 6 S 12:S 1916 dig pits 18 X 18 X 12 ins. in each sec. 5 ft. dist. and raise a mound of earth & ft. base, 2 ft. high. W. of cor. Land, level. Soil, sandy clay, 1st rate. Timber, scattering palo verde, iron wood and mesquite. Undergrowth, greasewood. North bet. secs. 1 and 6. Over level land, through scattering timber and undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 1  $\frac{1}{4}$ :S 6 1916 dig pits 18 X 18 X 12 ins . N. and S. ofcom. 3 ft. dist. and raise a mound of earth 32 ft. base, 12 ft. high W. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of Ts. 2 and 3 S., Rs. 1 and 2 W., 80.00 with brass cap mkd. T 2 S R 2 W R 1 W S 36:S 31 1 :S 6 T 3 S 1916 dig pits 24 X 24 X 12 ins. on each line N., E., and W. 4 ft. and S. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base, 22 ft. high S. of cor. Land, level. Soil, sandy clay, 1st rate. Timber, iron wood palo verde and mesquite. Undergrowth, greasewood. Boundaries of T.3 S.,R.1 W. Latitudes, Departures and Closing Errors. Latitudes Departures W. s. E. Line Designated. True Bearing. Dist. N. Chs. Chs. Chs. Chs. Chs. North 480.00 480.00 West bdy. 478.72 478.72 E-ast North bdy. East bdy. South 480.00 480.00 West 479.06 479.06 South bdy. .47 Convergency 480.00 480.00 479.19 479.06 Totals 480.00 479.06 Error in latitude .00

.13

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47
                     South boundary of T.3 S.R.2 W
Chains
           Survey commenced Feb. 7, 1916, and executed with a Young
                 and Son's light mountain transit No.8592 as described
                 in book "A".
           From recent and repeated field tests, I know the transit
                 and solar attachment to be in satisfactory adjust-
           At 9h., a.m., l.m.t., I set off 33° 7' N. on the lat. arc; 15° 32' S. on the decl. arc; and determine a mer. with the solar, at the cor. of Ts. 3 and 4 S., Rs. 1
                                      I set off 33° 7' N. on the lat. arc;
                 and 2 W., heretofore described.
           West bet. secs. 1 and 36.
           Over level land, through scattering timber and under-
                growth.
          Wash, 10 lks. wide, 1 ft. deep, course, N. 40° E. Wash, 15 lks. wide, 1 ft. deep, course, N. 50° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
20.00
32.00
40.00
                the ground for \(\frac{1}{2}\) sec. cor. with brass cap mkd. S 36
                                    1916
                dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft.
                dist. and raise a mound of earth 3½ ft. base, 1½ ft.
                high N. of cor.
           Wash, 15 1ks. wide, 1 ft. deep, course, N. 50° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
58.30
00.08
                the ground for cor. of secs. 1, 2, 35 and 36, with
                brass cap mkd.
                                    T 3 S R 2 W
                                     S 35:S 36
                                        2:31
                                        T 4 S
                                          1916
                dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high
                W. of cor.
           Land, level.
           Soil, sandy clay, gravelly, 1st rate.
           Timber, palo verde and iron wood.
           Undergrowth, greasewood.
           Feb. 9, 1916, at 10h., a.m., l.m.t., I set off 33° 7' N, on the lat. arc; 14° 54' S. on the decl. arc; and determine a mer. with the solar, at the cor. of secs.
                1, 2, 35 and 36.
           Thence
           West on a true line bet. secs. 2 and 35.
           Over level land, through scattering timber and under-
                growth.
           Wash, 15 lks. wide, 1 ft. deep, course, N. 30° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
11.00
40.00
                the ground for + sec. cor. with brass cap mkd. S 35
                                    1916
                dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
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**44.60 80.00**  dist. and raise a mound of earth 32 ft. base, 12 in high N. of cor.

Wash, 15 lks. wide, 1 ft. deep, course, N.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with brass cap mkd.

2.10 35.00 40.00

48

BCCK 8071 South boundary of T.3 S.R.2 W Chains T 3 S R 2.W 34:S 35 3 :S 2 T 4 S 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy clay, 1st rate. Timber, palo verde and iron wood. Undergrowth, greasewood. West on a true line bet. secs. 3 and 34.

Over level land, through scattering timber and undergrowth. 8.70 Wash, 15 lks . wide, 1 ft. deep, course, N. Wash, 15 lks. wide, 2 ft. deep, course, N. Set an iron post 3 ft. long, I in. in diam., 26 ins. in 38.30 40.00 the grand for \(\frac{1}{4}\) sec. cor. with brass cap mkd. \$ 34 S 3 1916 from which, An iron wood, 12 kms. in diam., brs. N. 3º E. 22 lks. dist. mkd. 1 S 34 B T. No other trees within limits. Dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Wash, 20 lks. wide, 3 ft. deep, course, N. 10° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secso 3, 4, 33 and 34, with 49.00 80.00 brass cap mkd. T 3 S R 2 W S 33:S 34 S 4 :S 3 T 4 S 1916 from which, An iron wood, 14 ins. in diam., brs N. 40% W. 137 lks. dist. mkd. T 3 S R 2 W S 33 B T. No other trees within limits. Dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy clay, 1st rate. Timber, palo verde and iron wood. Undergrowth, greasewood.

West on a true line bet. secs. 4 and 33. Over gently rolling land, through scattering timber and undergrowth.

Wash, 15 lks. wide, 1 ft. deep, course, N. 30° E. Wash, 15 lks. wide, 1 ft. deep, course, N. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1 sec. cor. with brass cap mkd.

S 33

1916

dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3 ft. base, 1 ft. high N. of cor.

high N. of cor.

### South boundary of T.3 S.R.2 W

Chains 48.30 79.06

Wash, 20 lks. wide, 1 ft. deep, course, N. 10° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of Ts. 3 and 4 S., Rs. 2 and 3 W. with brass cap mkd.

T 3:S R3WR2W 36:\$ 31 1 :S 6 T 4 S 1916

dig pits 24 X 24 X 12 ins. on each line, N.,E. and W. 4 ft. and S. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high S. of cor.

Land, gently rolling. Soil, sandy, gravelly, 2nd rate. Timber, iron wood and palo verde. Undergrowth, greasewood and giant cacti.

Boundaries of T.3 S., R.2 W.

Latitudes, Departures and Closing Errors.

Latitudes. Departures. Line designated. True Bearing. Dist. N. S. W. chs. chs. chs. chs. chs. West bdy. North 480.00 480.00 S. 89° 57' E 478.59 .42 478.72 North |bdy. East bdy. South 480.00 480.00 479.06 South bdy West 479.06 .47 Convergency 480.00 480.42 479.06 479.06 Totals 480.00 Error in latitude .42

Error in departure

479.06

.00

15%

West boundary of T.3 S., R.2 W.

Chai na Feb. 10, 1916, at 9h., a.m., 1.m.t., I set off 33° 7' N. on the lat. arc; 14° 36' S. on the decl. arc; and determine a mer. with the solar, at the cor. of Ts 3 and 4 S., Rs. 2 and 3 W., heretofore described. Thence North bet. secs. 31 and 36.

Over level land, through scattering timber and undergrowth. Wash, 10 lks. wide, 1 ft. deep, course, N. 20° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 39.40 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 36  $\frac{1}{4}$ :S 31 1916 dig pits 18 X 18 X 12 ins . N. and S. of cor. 3 ft. dist. and raise a mound of earth 3 ft. base, 1 ft. high W. of cor. 00.08 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap mkd. T 3 S R 3'W R 2 W 25:5 30 36:S 31 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy, gravelly, 2nd rate. Timber, iron wood and palo verde. Undergrowth, greasewood, ocotillos and cacti. North bet. secs. 25 and 30. Over level land, through scattering timber and undergrowth. Wash, 15 lks. wide, 2 ft. deep, course, N. 20° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 15.00 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 25  $\frac{1}{4}$ :S 30 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Asc. gradual SW. slope. 50.00 Wash, 20 lks. wide, 3 ft. deep, course, S. 30° W. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 74.10 00.08 the ground for cor. of secs. 19, 24, 25 and 30, with brass cap mkd. T 3 S R3WR2W S 24:S 19 S 25:S 30 1916 and build a mound of stone, 3 ft. base, 2ft. high W. of cor. Land, level. Soil, gravelly and stony, 2nd and 3rd rates. Timber, palo verde and iron wood. Undergrowth, greasewood. Feb.10, 1916, at this cor. I set off 14° 33' S. on the decl. arc; and at apparent noon, observe the sun on the mer., the resulting lat. is 33° 9' N.

West boundary of T.3 S. Chains North bet . secs. 19 and 24. Over rolling land, through scattering timber and undergrowth. 9.60 Ravine, 40 lks. wide, 6 ft. deep, course, S. 10° E. Asc. SE. slope, 234 ft. to 15.00 Ridge, (long spur) slopes S. 30° W. Thence along W. slope. 38.00 40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. kn the ground, to solid rock, in a mound of stone, 3 ft. base, 2 ft. high for ‡ sec. cor. with brass cap mkd. S 24 1:5 19 1916 and build a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Draw, course, S. 30° W. Asc. SE. slope, 286 ft. to 54 .68 Ridge brs. E. and W., desc. NE. slope, 139 ft. to Wash, 20 lks. wide, 4 ft. deep, course, N. 60° W. Asc. SW. slope, 100 ft. to 64.50 71.90 Set an iron post 3 ft. long, 3 ins. in diam., 6 ins. in 00.08 the ground to solid rock, in a mound of stone, 4 ft. base, 2 ft. high, for cor. of secs. 13, 18, 19 and 24, with brass cap mkd. ିT 3-୫ R 3 W R 2 W S 24:S 19 1916 and build a mound of stone, 2 ft. base,  $l^{\frac{1}{2}}$  ft. high. W. of cor. Land, mountainous. Soil, rocky, granite formation, 4th rate. Timber, palo verde. Undergrowth, greasewood, ocotillos and cacti. North bet. secs. 13 and 18.

Over mountainous land, through scattering timber and undergrowth. Asc. SW. slope, 205 ft. to Change to W. slope.
Top of spur, slopes N. 60° W., desc. N. slope, 602 ft. to
Wash, 60 lks. wide, 12 ft. deep, course, N. 60° E.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 6.50 9.80 38.20 40.00 the ground for + sec. cor. with brass cap mkd. S 13 1:S 18 1916 dig pits 18 X18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise amound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Asc. SE. slope, along, foot of E. slope, 117 ft. to Over E. end of hill, extends E. 10 chs. dist. Desc. N. slope, 304 ft. to 63.50 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, with 00.08 brass cap mkd. T 3 S R 3 W R 2 W S 12:8 13:S 18 1916 and build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Land, mountaindus. Soil, rocky, granite formation, 4th rate. Timber, scrub palo verde. Undergrowth, greasewood, ocotillos and cacti.

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53
                      West boundary of T. 3 S. R.2 W
Chains
           North bet. secs. 7 and 12.
           Over rolling and hilly land, through scattering timber
                 and undergrowth.
           Desc. NE. slope, 40 ft. to
19.20
           Ravine, 30 lks. wide, 5 ft. deep, course, N. 20° E.
           Ravine, 25 lks. wide, 5 ft. deep, course, E.
Ravine, 40 lks. wide, 4 ft. deep, course, E.
Set an iron post 3 ft. long, 1 in. in diam., on surface rock, in a mound of stone, 4 ft. base, 2½ft. high for ½ sec. cor. with brass cap mkd.
27.00
32.50
40,00
                                                                            on surface
                                   S 12 1:5 7
                                           1916
           Pits impracticable.
           Build a mound of stone, 2 ft. base, l\frac{1}{2} ft. high W. of cor. Thence along fot of E. slope.
           Asc. S. slope, 79 ft. over E. end of hill, to
Top of hills brs. NE. and SW., desc.N. slope, 98 ft. to
52.50
59.09
                 sec. cor.
           Foot of steep N. slope, thence over gentle N. slope.
62.00
           Small hill brs. E. 21 chs. dist.
           Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, with
80.00
                 brass cap mkd.
                                          T 3 S
                                     R 3 W R 2 W
                                             :S 6
                                       S 1215 7
                                         1916
                 dig pits 18 X18 X 12 ins. in each sec. 5½ ft. dist.
                 and raise a mound of earth 4 ft. base, 2 ft. high
                 W. of cor.
           Land, Folling and hilly. Soil, rocky and gravelly, granite and quartz formation,
                 4th rate.
           Timber, palo verde and iron wood.
           Undergrowth, greasewood, ocotillos and cacti.
           North bet. seds. 1 and 6.
           Over level and rolling land, through scattering timber and
                 undergrowth.
           Wash, 15 lks. wide, 1 ft. deep, course, N30° E. Set an iron post 3 ft. long, 1 in in diam., 26 ins. in
11.50
40.00
                 the ground for & sec. cor. with brass cap mkd.
                                     S 1 1:S 6
                 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2}ft.
                 high W. of cor.
           Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor. of Ts. 2 and 3 S., Rs. 2 and 3 W.,
80.00
                 with brass cap mkd.
                                          T 2 S
                                     R 3 W R 2 W
                                         36:S 31
                                          1 :S 6
                                          T 3 S
                                           1916
                 dig pits 24 X 24 X 12 ins on each line, N., E. and W. 4 ft. and S. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base, 2\frac{1}{2} ft. high S. of cor.
           Land, rolling to 20 chs., remainder level. Soil, sandy gravelly, 2nd rate.
            Timber, palo verde and iron wood.
            Undergrowth, greasewood.
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North boundary of T.3 S
Chains
            Feb. 11, 1916, at 8h., a.m., l.m.t., I set off 33° 12' N. on the lat. arc; 14° 16' S. on the decl. arc; and determine a mer. with the solar, at the cor. of Ts.2 and
                  3 S., Rs.1 and 2 W. as heretofore described.
            Thence
            West on a random line along N. bdy. of tp., setting temp.
                  $ sec. and sec. cors. at intervals of 40 chs. and
                  at 478.59 chs. intersect W. bdy. of tp. 42 lks. S. of
                  cor. of Ts. 2 and 3 S., Rs. 2 and 3 W. heretofore described. This falling answers to a bearing of
                 0. 3' or 7 lks. N. per mile, counting from the NE.
                  cor. of the tp. "
            Thence
            S. 89° 57' E. on a true line bet. secs. 6 and 31.
            Over level land, through scattering timber and under-
                  growth.
            Wash, 15 lks. wide, 1 ft. deep, course, N. 10° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
18.89
38.59
                  the ground for # sec. cor. with brass cap mkd.
                                       S 31
                                       1916
                  dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft.
                  dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
                  high N. of cor.
           Wash, 10 lks. wide, 1 ft. deep, course, N. 10° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
58.40
78.59
                  the ground for cor. of secs. of secs. 5, 6, 31 and
                  32 with brass cap mkd.
                                       T 2 S R 2 W
                                        S 31:S 32
                                           6 :S 5
                                            T 3 S
                                             1916
                 dig pits 18 X 18 X 12 ins. in each sec. 5\frac{1}{2} ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high
                  W. of cor.
            Land, level.
            Soil, sandy gravelly, 2nd rate.
            Timber, palo verde mesquite and iron wood.
            Undergrowth, greasewood.
            S. 89° 57' E. on a true line bet. secs. 5 and 32.
           Wash, 20 lks. wide, 2 ft. deep. course, n. 10° W. Wash, 20 lks. wide, 2 ft. deep, course, N. Wash, 15 lks. wide, 1 ft. deep, course, N. 30° E. Wash, 15 lks. wide, 1 ft. deep, course, N. 20° E. N. end of hill brs. S. 7 chs. dist. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{2}\) Bec. cor. with brass cap mkd.
 7.10
13.30
20.50
27.90
40.00
                 the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. S 32
                 dig pits 18 X 18 X-12 ins. E. and W. of cor. 3 ft.
                 dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
                 high N. of cor.
           Wash, 20 1ks. wide, 1 ft. deep, course, N. 10° W. Se't an iron pst 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, with
62.60
.00
                  brass cap mkd.
                                       T2SR2W
                                         S 32:S 33
                                           5 :S 4
T 3 S
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1916

	North boundary of T.3 S.R.2 W. 55	)
Chains	dig pits 18 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.	
	Land, nearly level. Soil, sandy, gravelly, limestone, 2nd rate. Timber, palo verde, iron wood and mesquite along washes. Undergrowth, greasewood.	
4.20	S. 89° 57' E. on a true line bet. secs. 4 and 33.  Over level land, through scattering timber and undergrowth.  Wash, 20 lks. wide, 1 ft. deep, course, N. 20° E.  Wash, 30 lks. wide, 1 ft. deep, course, N. 20° E.  Wash, 30 lks. wide, 1 ft. deep, course, N. 10° E.	
23.80	Wash, 30 1ks. wide, 1 ft. deep, course, N. 10° E.  Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd.  S 33	
	$\overline{S}$ 4  1916  dig pits 18 X18 X 12 ins.E. and W. of cor. 3 ft. dist. and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft high N. of cor.	•
53.60 80.00	Wash, 10 lks. wide, 2 ft. deep, course, N. 30° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, with brass cap mkd.	
	T 2 S R 2 W S 33:S 34 S 4:S 3 T 3 S 1916	
	dig pits 18 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. dis. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level.	
	Soil, sandy clay, gravel surface, 2nd rate. Timber, iron wood, palo verde and mesquite along washes. Undergrowth, greasewood.	
•	S. 89° 57' E. on a true line bet. secs. 3 and 34.  Over level land, through scattering timber and undergrowth.	1
21 .70 35 .60 40 .00	Wash, 10 lks. wide, 2 ft. deep, course, N. 30° E. Wash, 10 lks. wide, 2 ft. deep, course, N. 30° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{2}\) sec. cor. with brass cap mkd.	
	S3 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base, ½ ft. high N. of cor.	
50.50 80.00	Wash, 10 lks. wide, 2 ft. deep, course, N. 30° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with brass cap mkd.  T 2 S R 2 W	
	S 34:S 35 S 3:S 2 T 3 S 1916	
	dig pits 18 X 18 $\frac{X}{2}$ 12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.	

56 North boundary of T.3 S. Chains Land, level. Soil, sandy clay, gravelly surface, 2nd rate. Timber, palo verde and iron wood. Undergrowth, greasewood. S. 89° 57' E. on a true line bet. secs. 2 and 35. Over level land, through scattering timber and undergrowth. Wash, 15 lks. wide, 2 ft. deep, course, N. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 14.70 40.00 the ground for 1 sec. cor. with brass cap mkd. S 35 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Wash, 30 lks. wide, 4 ft. deep, course, N. Wash, 10 lks. wide, 1 ft. deep, course, N. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with 54.70 73.10 00.08 brass cap mkd. T 2, S R 2 W <u>35:8 36</u> :S 1 T 3 S 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy clay, 1st rate. Timber, palo verde and mesquite. Undergrowth, greasewood. S. 89° 57' E. on a true line bet. secs .1 amd 36. Over level land, through scattering timber and undergrowth. 40.00 Set an iron post 3 ft. long, 1 ins in diam, 26 ins. in the ground for \$\frac{1}{2}\$ sec. cor. with brass cap mkd. \$\frac{3}{3}6\$ 1916 dig pits 18 X18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. 00.08 Cor. of Ts.2. and 3 S., Rs.1 and 2 W. Land, level.
Soil, sandy clay, lst rate.
Timber, scattering mesquite. Undergrowth, greasewood.

# Latitudes, Departures and Closing Errors.

							Latit	udes	Depar	tures.
***************************************	Line de	signated.	True b	earin	ıg.	Dist. chs.	N. chs.	S. chs.	Ē. chs.	W. chs.
	West bd		North					0110 •	C115 •	CIIS.
	North b		S. 89º	571	E.	478.59			478.59	
	East bd		South			480.00		480.00		
	South b		West _			479.06			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	479.06
	Converg	ency							.47	
	Totals						480.00	480.00	479.06	479.06
	Error i	n latitude					480.00			ļ
l	- T	n departur					•00		479.06	İ
I	Trans.	u debarrar	e						<b>.</b> 00	

### West boundary of T.2 S. R.1 W.

Chains

Survey commenced Feb. 12, 1916, and executed with a Young and Son's light mountain transit No.8592, as described in book "A".

From recent and repeated field tests, I know the transit and solar attachment to be in satisfactory adjustment.

At 8h. a.m., l.m.t., I set off 33° 12' N. on the lat. arc; 13° 57' S. on the decl. arc; and determine a mer. with the solar, at the cor. of Ts.2 and 3 S., Rs.1 and 2 W., as described in book "A".

Thence

North bet. secs. 31 and 36. Over level land, through scattering timber and undergrowth.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. S 36 \(\frac{1}{4}\):S 31

1916

dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

00.08

Set an iron post 3 it. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap mkd.

T 2 S R 2 W R 1 W S 25:S 30 S 36:S 31 1916

dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 it. base, 2 ft. high W. of cor.

Land, level. Soil, sandy clay, 1st rate. Timber, scattering mesquite. Undergrowth, greasewood.

North bet. secs. 25 and 30.

Over level land, through scattering timber and undergrowth.

22.00 40.00 Wash, 70 lks. wide, 5 ft. deep, course, N. 40° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec. cor. with brass cap mkd. S 25 \(\frac{1}{4}\):S 30

1916

dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

42.80 00.08 Road, brs. N. 30° W. and S. 30° E. Set an iron post 3 ft. long, 3 ins. indiam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap mkd.

TT2.SI R2WR1W S 24:S 19 S 25:S 30 1916

dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise amound of earth 4 ft. base, 2 ft. high W. of cor.

Land, level.

Soil, sendy clay, lst rate.

Timber, palo verde, iron wood and mesquite along washes. Undergrowth, greasewood.

60

West boundary of T.2 S Chains North bet. secs. 19 and 24. Over level land, through scattering timber and undergrowth. 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 24  $\frac{1}{4}$ :S 19 1916 from which, A mesquite, 8 ins. in dism., brs. N.  $2\frac{1}{2}$ ° E. 110 lks. dist. mkd.  $\frac{1}{4}$  S 19 B T. No other trees within limits. Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with 00.08 brass cap mkd. T 2 S R2WR1W S 13:S 18 S 24:S 19 1916 dig pits 18 X 18  $^{\rm X}$  12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy clay, lst rate. Timber, scattering mesquite. Undergrowth, greasewood. North bet. secs. 13 and 18. Over level land, through scattering timber and undergrowth. 40.00 Set an iron post 3 ft. long, 1 in; in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  $S 13 \frac{1}{4}:S 18$ 1916 dig pits  $18 \times 18 \times 12$  ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor. Set an iron post 3 ft. long, 3 ins. in diams, 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, with 00.08 brass cap mkd. T 2 S R 2 W R 1 W S 12:S 7 S 13:S 18 1916 dig pits 18 X 18 X12 ins. in each sec. 5 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy clay, 1st rate. Timber, scattering mesquite. Undergrowth, greasewood. North bet. secs. 7 and 12. Over level land, through scattering timber and undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for # sec. cor. with brass cap mkd. s 12 ½:s 7

1916

.98 478.72

.OL

61

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61
                   West boundary of T.2 S. R.1 W.
Chains
               dig pits 18 \times 18 + 12 ins. N. and S. of cor. 3 ft.
               dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high W. of cor.
          Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
00.08
               the ground for cor. of secs. 1, 6, 7 and 12, with
               brass cap mkd.
                                      T 2 S
                               R2WR1W
                                        :S 6
                                   S 12:S
                                     1916
               dig pits 18 X 18 X 12 ins. in each sec. 5 ft. dist.
               and raise a mound of earth, 4 ft. base, 2 ft. high
               W. of cor.
          Land, level.
          Soil, sandy loam, 1st rate.
          Timber, scattering mesquite.
          Undergrowth, greasewood, laurel and giant cacti.
          North pet. secs. 1 and 6.
          Over level land, through scattering timber and under-
               growtn.
40.00
          Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
               the ground for \frac{1}{4} sec. cor. with brass cap mkd. Sl \frac{1}{4}:S6
                                     1916
               dig pits 18 \stackrel{\triangle}{} 18 \stackrel{\triangle}{X} 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth, 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
               high W. of cor.
          Feb. 12, 1916, at this cor. I set off 13° 55' S. on the
               decl. arc; and at apparent noon, observe the sun on
          the mer; the resulting lat. is 33° 17' N.

Intersect N. bdy. of tp. 34 lks. E. of † cor. of sec. 36,
T.1 S.,R.2 W., which is a wooden post 3 ft. long, 3 i
ins. square, mkd., and witnessed as described by the
78.89 .
               Surveyor General.
          Set an iron post 3 it. long, 3 ins.in diam., 24 ins.in the ground for C.C. of Ts.2 S., Rs.1 and 2 W. with
               brass cap mkd.
                                      C:C
                                 S 1 : S 6
R 2 W R 1 W
                                     T 2 S
                                      1916
               dig pits 30 X 24 X 12 ins. crosswise on each line,
               E. and W. 4 ft. and S. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base, 22 ft. high S. of cor.
          Land, level
          Soil, sandy loam, 1st rate.
          Timber, scattering palo verde and mesquite.
          Undergrowth, greasewood and cacti.
                       Boundaries of T.2 S., R.1 W.
               Latitudes, Departures and Closing Errors.
                                                  Latitudes
                                                                   Departures
Line designated. True bearing. Dist.
                                                                              Chs.
                                          Chs.
                                                  Chs.
                                                            Chs.
                                                                     Chs.
                                        478.89 478.89
West bdy.
                      North
                                                                    39.60
                                         39.60
North bdy.
                     East
                      N. 89° 59' E. 438.66
                                                                   438.66
                                                     .13
                                                          480.00 4
                      South
                                        480.00
East bdy.
                                        478.72
                                                                            478.72
                     West
South bdy.
                                                                       .47
Convergency
                                                 479.02 480.00 478.73 478.72
Totals
                                                          479.02
```

Error in latitude Error in departure

6 V

West boundary of T.2 S. R.2 W.

Chains

Survey commenced Feb. 14, 1916, and executed with a Young and Son's light mountain transit No.8592, as heretofore described.

From recent and repeated field tests, I know the transit and solar attachment to be in satisfactory adjustment.

At Sh., a.m., l.m.t., I set off 33° 12' N. on the lat. arc; 13° 17' S. on the decl. arc; and determine ammer. with the solar, at the cor. of Ts.2 and 3 S., Rs.2 and 3 W., heretofore described.

Thence

North bet. secs. 31 and 36.

Over level land, through scattering timber and undergrowth.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 36  $\frac{1}{4}$ :S 31

1916

dig pits  $18 \stackrel{A}{\sim} 18 \times 12 \text{ lns. N. and S. of cor. 3 ft.}$  dist. and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

54.00 80.00 Wash, 15 lks. wide, 2 ft. deep, course, 2. 30° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap mkd.

T 2 S R 3 W R 2 W S 25:S 30 S 36:S 31 1916

dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, level.

Soil, sandy clay, 2nd rate.

Timber, iron wood and palo verde. Undergrowth, greasewood.

North bet. secs. 25 and 30.

Over level land, through scattering timber and undergrowth.

23.00 36.00 40.00 Wash, 20 lks. wide, 2 ft. deep, course, N. 5° W. Wash, 20 lks. wide, 2 ft. deep, course, N. 10° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

et an iron post 3 ft. long, l in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd.

S 25 \(\frac{1}{4}\):S 30

. . . . .

1916

dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

00.08

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap mkd.

T 2 S R 3 W R 2 W S 24:S 19 nS 25:S 30

1916
dig pits 18 X 18 X 12 ins. in each sec. 5 ft. dist.
and raise a mound of earth 4 ft. base, 2 ft. high
W. of cor.

Land, level.

Soil, sandy clay, caliche subsoil, 2nd rate.

	West boundary of T.2 S., R.2 W. 63
Chains	Timber, iron wood and palo verde. Undergrowth, greasewood.
	North bet. secs. 19 and 24. Over level land, through scattering timber and undergrowth.
14.00 25.00 40.00	Wash, 15 lks. wide, 1 ft. deep, course, N. 5° E. Wash, 15 lks. wide, 1 ft. deep, course, N. 10° W. Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground for 4 sec. cor. with brass cap mkd.  S 24 4:S 19
80.00	1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.  Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap mkd.
	T 2 S R 3 W R 2 W S 13:S 18 S 24:S 19 1916
	dig pits 18 X 18 X12 ins. in each sec. 52 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, level.  Soil, sandy clay, with caliche subsoil, 2nd rate.  Timber, iron wood, palo verde and masquite.  Undergrowth, greasewood.
	North bet. secs. 13 and 18.  Over levelland, through scattering timber and undergrowth.
27.00 40.00	Wash, 15 lks. wide, 1 ft. deep, course, N. 10° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ‡ sec. cor. with brass cap mkd. S 13 ‡:S 18
	l916 dig pits 18 X 18 X12 ins. N. and S. of cor. 3 ft. dist and raise a mound ofearth 3 ft. base, l ft. high
80.00	W. of cor.  Set an iron post 3 ft.long, 3 ins. in diem., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, with brass cap mkd.
	T 2 S  R 3 W R 2 W  S 1 :S 6  S 12:S 7  1916
`.	dig pits 18 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
ţ	Land, Evel.  Soil, sandy clay, with caliche subsoil, 2nd rate.  Timber, palo verde and mesquite.  Undergrowth, greasewood.
	North bet. secs. 1 and 12.  Over level land, through scattering timber and undergrowth.

64 West boundary of T.2 S. R.2 W. Chains 40.00 Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground for \frac{1}{4} sec. cor. with brass cap mkd. S 7 ½:S 12 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Wash, 80 lks. wide, 4 ft. deep, course, N. 40° E.
Wash, 15 lks. wide, 1 ft. deep, course, N. 60° E.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, with 44.60 74.80 80.00 brass cap mkd. T 2 S R 3 W R 2 W S1:S6 S 12:S 7 1916 dig pits 18 X 18 X 12 ins. in each sec. 52 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level and gently rolling. Soil, gravely clay and stony, 2nd and 3rd rates. Timber, palo verde and mesquite. Undergrowth, greasewood. Feb. 14, 1916, at this cor. I set off 13° 15' S. on the decl. arc; and at apparent noon, observe the sun on the mer.; the resulting lat. is 33° 16' N. North bet. secs. 1 and 6. Over level land, through scattering timber and undergrowth. Wash, 40 lks. wide, 3 ft. deep, course, N. 60° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 21.60 40.00 the ground for + sec. cor. with brass cap mkd. S 1 1:S 6 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor. Wash, 15 lks. wide, 1 ft. deep, course, S. 40° E. 60.40 Wash, 30 lks. wide, 4 ft. deep, course, S. 70° E. 76.30 Intersect N. bdy. of tp. 82 lks. E. of \(\frac{1}{4}\) cor. of sec. 36, which is wooden post 3 ft. long, 3 ins. square, 79.47 mkd. and witnessed as described by the Surveyor General. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. i the ground for C.C. of Ts.2 S., Rs.2 and 3 W., with brass cap mkd. C:C S1:S6 R3WR2W T 2 S 1916 dig pits 30 X 24 X 12 ins. grosswise on each line, E. and W., 4 ft. and S. of cor. 8 ft. dist. and raise a mound of earth, 5 ft. base, 22 ft. high S. of cor. Land, level and gently rolling. Soil, gravelly clay, 2nd rate. Timber, palo verde and iron wood. Undergrowth, greasewood.

Boundari	Les	of	T.2	S	R	.2	W.

_		Boundar	ies of T	.2 S	R.2 W.			65
		Latitudes,	Departu	res and	Closin	g Error	s.	
			•	-	Latit	udes	Depar	tures.
	Line design	ated. True 1	earing.	Dist.	N.	s.	E.	w.
			_	Chs.	Chs.	Chs.	Chs.	Chs.
	West bdy.	North		479.47				
	North bdy.	East	~				38.48	
		N. 899	46' E.	38.93	.16	Mind on the Park	38.93	
			12' E.			.56	41.10	
	·	N. 899	47' E.	40.05	.15		40.05	
		E ast		40.00			40.00	
		S. 899	50'E.	39.92		•12	1	
		S. 89	34' E.	39.96		•30	39.96	
		S. 899	54'E.	39.94		.07	39.94	
		S. 89	54' E.	39.96	i	.07	39.96	
		S. 899	53' E.	40.12		.08		
		East		39.94			39.94	
		East		40.28			40.28	
I	East bdy.	South		478.89		478.89		ļ
	South bdy.	N. 899	57' W.	480.20	•42			480.20
l	Convergency	_				•	.47	1
	Totals				480.20	480.09	479.15	480.20
					480.09	1. 1. 1.		
-	Error in la				.11	**	fra fra fra fra	
1	Error in der	parture					***	1.05

### North boundary of T.3 S.R.1 E.

Survey commenced Feb. 29, 1916, and executed with a Young and Som's light mountain transit No. 8521, as heretofore described. From recent and repeated field tests of the transit and solar attachment, I know them to be in satisfactory adjustment. Feb. 29, 1916, at 8h., a.m., l.m.t., I set off 33° 12' N. on the lat. arc; 7° 54' S. on the decl. arc; and determine a mer. with the solar, at the cor. of Ts.2 and 3 S., Rs. 1 E. and 1 W., which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General. Thence East on a true line bet. secs. 6 and 31. Over level land, through scattering timber and undergrowth. 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for # sec. cor. with brass cap mkd. S 31 1.916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 32 and 32, with brass cap mkd. T2SR1E 31:S S 6 : S 5 T 3 S 1916. dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  it. dist. and raise a mound of earth 4 it. base, 2 ft. high W. of cor. Land, level. Soil, loose sandy clay, 1st rate. Timber, scattering palo verde and mesquite. Undergrowth, greasewood. East on a true line bet. secs. 5 and 32. Over level land, through scattering timber and undergrowth. Wash, 25 1ks. wide, 1 ft. deep, course, S. 30° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 33.40 40.00 the ground for  $\frac{1}{2}$  sec. cor. with brass cap mkd. S 32 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Wash, 20 lks. wide, 1 ft. deep, course, S. 45° W. Wash, 75 lks. wide, 3 ft. deep, course, S. 45° W. Wash, 30 lks. wide, 2 ft. deep, course, N. 70° W. Set an iron post 3 ft. long, 1 in. in diam., 24 ins. in 50.80 62.10 63.30 80.00 the ground for cor. of secs. 4, 5, 32 and 33, with brass cap mkd. T 2 S R 1 E T 3 S 1916 dig pits 18 X 18 X 12 ins. in each sec. 5 tt. dist. and raise a mound of earth 4 ft. wase, 2 ft. high W. of cor.

Land, level.

Soil, loose, sandy clay, 1st rate.

Timber, scattering palo verde, iron wood, mesquite and

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68
                           North boundary of T.3 S.,R.1 事。
    Chains
               Undergrowth, greasewood.
               East on a true line bet. secs. 4 and 33.
               Over level land, through scattering timber and under-
                     growth.
               Wash, 20 lks. wide, 1 ft. deep, course, NW.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
    22.50
    40.00
                     the ground for 4 sec. cor. with brass cap mkd. S 33
                                         1916
                     and build a mound or stone 2 ft. base, la ft. high
                     N. of cor.
               Wash, 20 lks. wide, 3 ft. deep, course, $. 60° W. Wash, 25 lks. wide, 4 ft. deep, course, $. 30° W. Wash, 60 lks. wide, 6 ft. deep, course, $. 45° W. Set an iron post, 3 ft. long, 3 ins. in dim., on surface
    45.50
    59.00
    65.40
    80.00
                     rock, in a mound of stone, for cor. of secs. 3, 4,
                    33 and 34, with brass cap mkd.
T 2 S R 1 E
S 33:5 34
                                          S 4 :S 3
                                             T 3 S
                                              1916
                     from which,
                          An iron wood, 6 ins. in diam., brs. S. 6820 W.
                                129 lks. dist. mkd. T 3 S R 1 E S 4 B T.
               No other trees within limits.
               Build a mound of stone, 2 ft. base, 12 ft. high W. of cor.
               Land, level. Soil, loose,
               Soil, loose, grayelly, rocky, clay, 3rd rate Timber, scattering palo verde and iron wood.
                                                                , 3rd rate.
               Undergrowth, greasewood and cacti.
               Mar. 2, 1916, at this cor. I set off 7° 5' S. on the decl.
                     arc; and at apparent noon observe the sun on the mer;
                     the resulting lat. is 33° 12' N.
               East on a true line vet. secs. and 34.

Over level land, through scattering timber and under-
                    growth.
               Wash, 200 lks. wide, 4 ft. deep, course, S. 20° W. Wash, 30 lks. wide, 6 ft. deep, course, S. Wash, 50 lks. wide, 6 ft. deep, course, S.15° W. Wash, 70 lks. wide, 15 ft. deep, course, S. 5° E.
       .40
     5.60
     6.40
    19.80
               Leave level land, asc. SW. slope, 160 ft. to
Set an iron post 3 ft. long, 1 in. in diam., on surface
    29.70
    40.00
                    rock, in a mound of stone, for 4 sec. cor. with brass
                     cap mkd.
               Pits impracticable.
               Build a mound of stone, 2 ft. base, 12 ft. high N. of cor. Asc. SW. slope, 44 ft. to
               Point of spur slopes S.
    41.23
               Thence along S. slope,
               Desc. SE. slope, 152 ft. to
    43.00
               Wash, 30 lks. wide, 6 ft. deep, course, S. 10° W. Wash, 50 lks. wide, 12 ft. deep, course, S. 30° W. Asc. W. slope, 245 ft. to
    54.97
    56.67
    66.79
               Spur slopes S., desc. E. slope, 189 ft. to
               Enter rocky flat.
    76.14
               Wash, 20 lks. wide, 3 rt. deep, course, S. 30° W.
    78.34
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69
                   North boundary of T.3 S. R.1 E.
Chains
80,00
          Set an iron post 3 it. long, 3 ins. in diam., 24 ins. in
               the ground for cor. of secs. 2, 3, 34 and 35, with
               brass cap mkd.
                                T 2 S R 1 E
                                 S 34:S 35
S 3 :S 2
                                   T 3 S
                                     1916
              and build a mound of stone, 2 ft. base, lt ft. high
              W. of cor.
         Land, mountainous and level.
         Soil, loose, decomposed granite, tocky, 3rd rate.
         Timber, scattering palo verde and iron wood.
         Undergrowth, greasewood and cacti.
         Mar. 6, 1916, at 8h., a.m., l.mt., I set off 33° 12' N. on the lat. arc; 5° 36' S. on the decl. arc; and deter-
              mine a mer. with the solar, atthe cor. of secs.
              2, 3, 34 and 35.
         East on a true line bet. secs. 2 and 35.
         Over mountainous land, through scattering timber and under-
              growth.
 1..50
         Wash, 20 1ks. wide, 3 ft. deep, course, S.
         Wash, 40 lks. wide, 4 it. deep, course, SW. Wash, 70 lks. wide, 6 ft. deep, course, S. 10° W.
 6.30
17.60
20.00
         Leave level flat, asc. W. slope, 530 ft. to
         Spur slopes, S. 20° W. Thence along S. slope.
36.94
38.54
         Set flag on line for triangulation point.
         Desc. SE. slope, 15 ft. to
Set an iron post 3 ft. long, 1 in. in dism., 14 ins. in
the ground to solid rock, in a mound of stone, for
40.00
              # sec. cor. with brass cap mkd.
                               1916
              and build a mound of stone, 2 ft. base, lt ft. high
              N. of cor.
         Desc. SE. slope, 134 ft. to
         Approximate dist. to gulch, 100 lks. wide, 15 ft. deep,
60.20
              course, SW.
         Asc. W. slope over cliffs 602 ft. to Spur slopes, S. 44° W.
         To determine the dist from the flag set on line at
              38.54 chs., I lay off a base line, S. 44° W., 18.00 chs. long, (longest possible base) to a point, at
              which the angle bet . flags on line measures, by
              repetition three times, 108° 12' 40"; the angle bet.
              the boundary line and base line measures by repetition
              three times, 46° .. 108° 12' 40"
                                                     N 39.30
                460 001 00"
                                                          08 12 40
              154° 12' 40"
```

Remaining angle = 25° 47' 20".

18.00 X sin 108° 12' 40" = log .18 + log sin 108° 12' 40" = log sin 25° 47' 20" = - log sin 25° 47' 20"

= 1.255273 log 18  $\log \sin 108^{\circ} 12' 40" = 9.977683$ 11.232956

log sin 25° 47' 20" = 9.6385351.594421 = log of required

dist, or 39.30 hhs. 38.54 chs. + 39.30 chs. = Spur slopes S. 44° W.

77.84

Desc. SE. slope, 66 ft. to Set an iron post 3 ft. long, B ins. in diam., on surface 80.00

North boundary of T.3 S., R.1 E. CHAINS rock, in a mound of stone, for cor. of secs. 1, 2, 35 and 36, with brass cap mkd. T3SR1E S 35:S 36 S 2 :S 1 T 3 S 1916 Pits impracticable. Build a mound of stone, 2 ft. base, 12 ft. high W. of cor. Land, mountainous. Soil, stony, decomposed granite, 4th rate. Timber, scattering iron wood and mesquite. Undergrowth, greasewoodd and cacti. 6, 1916, at this cor. I set off 5° 35' S. on the declarc; and at apparent noon observe the sun on the mer.; Mar.6, 1916, the resulting lat. is 33° 12' N. East on a true line bet. secs. 1 and 36. Over SE. slope, over cliffs and slide rock, 123 ft. to Gulch, 100 ft. wide, 15 ft. deep, course, SW. I project line to the top of the main range of the 7.00 Estrella Mountains. To determine the dist. from the cor. or secs. 1, 2, 35 and 36, to a flag set on line on the main range, I use the base already measured, 18 chs. dist. from a point at 77.84 chs. bet. secs. 2 and 35. From my flag on the Estrelia Mountains the base subtends an angle of 12° 24' 20" (measured by repetition, three times). As the bearing of the base, is S. 46° W. the angle bet. the North boundary and the base is 134° 00' 00". 134° 00' 00" 12° 24' 20" 1460 24' 20" Remaining angle = 33° 35' 40".

18 cns. X sin 33° 35' 40" = log 18 + log sin 33° 35' 40"

sin 12° 24' 20" = log sin 12° 24' 20". - log sin 12° 24' 20". 1.255273 log 18  $\log \sin 33^{\circ} 35^{\circ} 40^{\circ} =$ 9.742963 10.998236 log sin 12° 24' 20" = 9.332095 1.666141 = log of required side or 46.36 chs. 46.36 - 2.16 = 44.20 chs. 44.20 Main range of the Estrella Mountains brs. N. and S. 45° E. 14.81 ft. above guich at 7.00 chs. 40.00 True point for \( \frac{1}{4} \) sec. cor. falls on slide rock on steep W. slope, therefore at 44.20 Set an iron post 3 ft. long, 1 in. in diam., on surface rock, in a mound of stone, for W.C. zec. cor. with brass cap mkd. Pits impracticable. Build a mound of stone, 2 ft. base, 12 ft. high N. of cor. Cliff 12 1ks. S. of W.C. 2 sec. cor. brs. E. and W. 25 ft. high. Desc. NE. slope, over clifts and slide rock, 1337 ft. Cliff brs. NW. and SE. 20 ft. drop 82.30 Intersect W. bdy. of G.R.I.R., 7.78 chs. S. of the 82.50 reservation boundary cor. of Ts. 2 and 3 S., R.2 E., which is antiron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General. Set an iron post 3 ft. long, 1 in. in diam., on surface rock, in a mound of stone, for C.C. of Ts. 2 and 3

S., Rs.1 E., with brass cap mkd.

North boundary of T.3 S ., R.1 E.

T 2 S: R 1 E: S 36: C G R I R SI

T 3 S: 1916

Pits impracticable.

Chains

Build a mound of stone, 2 ft. base, la ft. high E. of cor. Impossible to build mound W. of cor. on account of slide rock.

Note: this cor. is 265 ft. above the tp. cor. 7.78 chs. north.

Land, mountainous.

Soil, granite rocky, 4th rate. Timber, scattering scrub palo verde.

Undergrowth, scattering greasewood and cacti.

#### Boundaries of T.3 S., R.1 E.

Latitudes, Departures and Closing Errors.

		*	Latit	udes	Depar:	tures.
Line desig	nated. True b	earing. Dist.		S. chs.	E. chs.	W. chs.
West bey.	North	480.0	00.480			
North bdy.	East	482.	50	*	482.50	
East bdy.	South	480.2	22	480.22		
South bay.	West	483.1	13			483.13
Convergence	y				.47	
Totals	•		480.00	480.22	482.97	483.13
				480.00		
Error in 1	atitude			.22		482.97
Error in d	eparture					.16

73 West boundary of T.11 S. R.6 E. Chains Survey commenced Mar. 20, 1916, and executed with a Young and Son's light mountain transit No .8592, as heretofore described. Mar. 19, 1916, at the \(\frac{1}{4}\) cor. of sec. 31, T.10 S., R.6 E., I examine the adjustments of the transit and find them correct. At 7h. 30m., p.m., l.m.t., I observe Polaris at W.E. in accordance with instructions in the Manual of Surveying, and mark the line thus determined by a tack driven in a wooden peg, set firmly in the ground, 5 chs. to the N. of my station.

Mar. 20, 1916, at 7h. 30m., a.m., l.m.t., I lay off the
azimuth of Polaris, 1° 21' to the E., and turn on a flag set at the S.C. of Ts.10 S., Rs.5 and 6 E. I find line and solar to be correct.

At 8h., a.m., l.m.t., I set off 32° 30' N. on the lat. arc;

O° 6' S. on the decl. arc; and determine a mer. with
the solar, at a point 11.50 chs. W. of the S.C., of T.11 S., Rs. 5 and 6 E., which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General. At this point, I set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for C.C. of Ts.11 S., Rs. 5 and 6 E., with brass cap mkd. C:C S 1:S 6 R 5 E R 6 E T 11 S 1916 Thence South bet. secs. 1 and 6. Over level land, through undergrowth. Set an iron post 3 ft. long, lin. in diam., 26 ins. in 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 1  $\frac{1}{4}$ :S 6 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins the ground for cor. of secs. 1, 6, 7 and 12, with 00.08 24 ins. in brass cap mkd. T 11 S R 5 E R' 6 E 12:S 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise amound of earth 4 ft.base, 2 ft.high W. of cor. Land, level. sandy adobe, 1st rate. Soil, No timber. Undergrowth, greasewood, mesquite and sage brush. South bet. secs. 7 and 12.
Over level land, through undergrowth.

JOSK A

40 .00

Over level land, through undergrowth. Set an iron post 3ft. long, l in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 12 \(\frac{1}{4}\):S 7

1916

dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ft. high W. of cor.

Wash, 10 lks . wide, 6 ins. deep, course, N. 10° W. 44.80

74 West boundary of T.11 Chains Wash, 10 1ks. wide, 1 ft. deep, course, N. 10° W. Set an iron post 3 ft. long, 3 ins 24 indiams, 24 ins. in 57.10 90.08 the ground for cor. of secs. 7, 12, 13 and 18, with brass cap mkd. T 11 S R5ER6E S 13:S 18 1916 dig pits 18 X 18 X 12 ins. in each sec .  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy adobe, 1st rate. No timber. Undergrowth, greasewood, mesquite and sagebrush. South bet. secs. 13 and 18. Over level land, through scattering undergrowth.

Set an iron post 3 ft. long, l in. in diam., 26 ins. in the ground for 4 sec. cor. with brass cap mkd. 40.00 S 13 \(\frac{1}{4}\):S 18 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$ ft. high W. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 00.08 the ground for cor. of secs. 13, 18, 19 and 24, with brass cap mkd. T 11 S R 5 E R 6 E S 13:S 18 S 24:3 19 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy adobe, 1st rate. No timber. Undergrowth, greasewood, mesquite and sagebrush. South bet. secs. 19 and 24. Over level land, through undergrowth. Wash, 15 1ks. wide, 1 ft. deep, course, N. 20° W. Wash, 15 1ks. wide, 1 ft. deep, course, N. 20° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 12.80 34.60 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  $5^{24} \frac{1}{4}:519$ 1916 Mar. 20, 1916, at this cor. I set off 0° 2' S. on the decl. arc; and at apparent noon, observe the sun on the mer.; the resulting lat. is 32° 27' N. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with 00.08 brass cap mkd. T 11 S R 5 E R 6 E S 24:S 19 S 25:S 30 1916

### West boundary of T.11 S.R.6 E

Chains dig pits 18 X 18 X 12 ins. in each sec. 5t ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, adobe, 1st rate. No timber. Undergrowth, greasewood and mesquite. South bet. secs. 25 and 30. Over level land, through undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  $S 25 \frac{1}{4}:S 30$ 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise amound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24ins. in 00.08 the ground for cor. of secs. 25, 30, 31 and 36, with brass cap mkd. T 11 S R 5 E R 6 E S 25:S 30 S 36:S 31 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, adobe, 1st rate. No timber. Undergrowth, greasewood and mesquite. South bet. secs. 31 and 36. Over level land, through scattering timber and undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.  $5 \ 36 \ \frac{1}{4}$ : S 31 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and maise a mound of earth 3½ ft. base, 1½ ft. high W. of cor. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 80.00 the ground for cor. of Ts.11 and 12 S., Rs. 5 and 6 E., with brass cap mkd.
T 11 S R 5 E R 6 E S 36:S 31 S 1 :S 6 T 12 S 1916 dig pits 24 X 24 X 12 ins. on each line, N., E. and W. 4 ft. and S. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base, 21 ft. high \$5. of cor. Land, level. Soil, sandy adobe, 1st rate. Timber, scattering iron wood and palo verde.

Undergrowth, greasewood and mesquite.

76 South boundary of T.11 S. R.6 Chains Mar. 20, 1916, at 4h.,p.m.,l.m.t., I set off 32° 25' N. the,lat. arc; 0° 1' N. on the decl. arc; and determine a mer. with the solar at the cor. of Ts.11 and 12 S., Rs. 5 and 6 E. Thence East on a true line bet. secs. 6 and 31. Over level land, through scattering timber and undergrowth. 31.40 Wash, 10 1ks. wide, 1 ft. deep, course, N. 5° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 38.16 the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. S. 31 S 6 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. 78.16 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, with brass cap mkd. T 11 S R 6 E S 31:S 32 S 6:S 5 T 12 S 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level.
Soil, sandy adobe, lst rate. Timber, scattering iron wood and palo verde. Undergrowth, greasewood and mesquite. Mar. 21, 1916, at the cor. of secs. 5, 6, 31 and 32, I set off 00 21' N. on the decl. arc; and at apparent noon observe the sun on the mer.; the resulting lat. is 32° 25' N. At lh., a.m., l;m.t., I set off 32°25' N. on the lat. arc; 0°22' N. on the decl. arc; and determine a mer. with the solar. Thence East on a true line bet. secs. 5 and 32. Over level land, through undergrowth. Wash, 10 lks. wide, if t. deep, course, N. Wash, 15 lks. wide, I ft. deep, course, N. Wash, 15 lks. wide, 1 ft. deep, course, N. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 19.30 20.70 26.70 . 40.00 the ground for \$\frac{1}{4}\$ sec. cor. with brass cap mkd. \$32 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
Wash, 15 lks. wide, 2 ft. deep, course, N. 60.50 Wash, 20 lks. wide, 3 ft. deep, course, N. Wash, 25 lks. wide, 3 ft. deep, course, N. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, with 64.30 74.80 00.08 brass cap mkd.

77 South boundary of T.11 S.R.6 E. Chains T 11 S R 6 E  $\begin{array}{c} \underline{S} \ 32 : \underline{S} \ 33 \\ \overline{S} \ \underline{5} \ \vdots \underline{S} \ 4 \\ \underline{T} \ \underline{12} \ \underline{6} \underline{S} \\ \end{array}$  dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W, of cor. Land, level. Soil, adobe, 1st rate. No timber. Undergrowth, greasewood and mesquite. East on a true line bet. secs. 4 and 33. Over level land, through undergrowth. 14.20 Road, brs. N. and S. 10° E. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. 40.00 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, with brass cap mkd. 11 S R 6 E S 33:S 34  $\begin{array}{c} \underline{S_T}\underline{4_1}\underline{S_3} \\ \underline{1916}S \\ \underline{X} \underline{12} \text{ ins. in each sec. } 5\frac{1}{2} \text{ ft. dist.} \end{array}$ dig pits 18 X 18 X and raise amound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, adobe, 1st rate. No timber. Undergrowth, greasewood and mesquite. Mar. 24, 1916, at 9h., a.m., l.m.t., I set off 32° 25' N. dn the lat. arc; 1° 29' N. on the decl. arc; and determine a mer. with the solar, at the cor. of secs. 3, 4, 33 and 34. Thence East on a true line bet. secs. 3 and 34. Over level land, through scattering undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. S 34 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Wash, 20 lks. wide, 1 ft. deep, course, N. 10° W. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 77.20 80.00 the ground for cor. of secs. 2, 3, 34 and 35, with brass cap mkd. 11 S R 6 E S 34:S 35 3 :S 2 T 12 S 1916 dig pits,  $18 \times 18 \times 12$  ins., in each sec.,  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high,

W. of cor.

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78
                        South boundary of T.11
  Chains
              Land, level.
              Soil, sandy adobe, lst rate. No timber.
              Undergrowth, greasewood and mesquite.
              East on a true line bet. secs. 2 and 35.
              Over level land, through undergrowth.
   3.60
              Wash, 15 lks. wide, 1 ft. deep, course, N.
             Wash, 10 lks. wide, 1 ft. deep, course, N. Wash, 10 lks. wide, 1 ft. deep, course, N. 10° W. Set an iron post 3 ft.long, 1 in. in diam, 26 ins. in
  15.90
  30.80
  40.00
                   the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd. \(\S^2 \) 35
                                        1916
                   dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
                   high N. of cor.
             Wash, 10 1ks. wide, 1 ft. deep, course, N. 10° W. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with
  55.00
  00.08
                   brass cap mkd.
                                        T 11 S R 6 E
                                           S 35:S 36
                                              2 :S 1
                                              T 12 S
                                              1916
                   dig pits 18 X 18 X 12 ins. in each sec. 5\frac{1}{2} ft. dist.
                    and raise a mound of earth 4 ft. base, 2 ft. high
                   W. of cor.
             Land, level.
Soil, sandy adobe. 1st rate.
              No timber.
              Undergrowth, greasewood and mesquite.
              East on a true line bet. secs. 1 and 36.
              Over level land, through scattering timber and under-
                   growth.
             Wash, 10 lks. wide, 1 ft. deep, course, N. 20° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
  25.80
  40.00
                    the ground for \frac{1}{4} sec. cor. with brass cap mkd.
                                        1916
                   dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
                   high N. of cor.
              Iron wood tree, 12 ins. indiam., blazed on the S., brs. N.
  73.40
                    20 lks. dist.
  00.08
              Well derrick, brs. N. 29½° E.
              Set an iron post 3 ft. long, 3 ins. in diam., 24ins. in the ground for cor. of Ts. 11 and 12 S., Rs.6 and 7 E.,
                    with brass cap mkd.
                                             T 11 S
                                        R 6 E R 7 E '
S'36:S 31
                                          S 1 :S 6
                                             T 12 S
                                              1916
                    from which,
                         A mesquite, 6 ins. in diam., brs. S. 9° E. 126 1ks. dist. mkd. T 12 S R 7 E S 6 B T.
                         An iron wood, 10 ins. in diam., brs. S. 38\frac{1}{2}° W. 183 1ks. dist. mkd. T 12 S R 6 E S 1 B T.
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South boundary of T.11 S., R.6 E.

79

Chains

No other trees within limits.

Dig pits 24 X 24 X 12 ins. on each line, N., E. and W.,

4 ft. and S. of cor. 8 ft. dist. and raise a mound
of earth 5 ft. base, 2½ ft. high S. of cor.

Land, level.

Soil, sandy clay, lst rate.

Timber, scattering iron wood and mesquite.

Undergrowth, greasewood and mesquite.

80	East boundary of T.11 S. R.6 E.
Chains	
	North bet. secs. 31 and 36.  Over level land, through scattering timber and under-
17.60 40.00	growth.  Wash, 10 lks. wide, 1 ft. deep, course, N. 80° W.  Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd.  S 36 \(\frac{1}{4}\):S 31
42.00 50.60 52.10 63.20 80.00	dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.  Wash, 25 lks. wide, 2 ft. deep, course, N. 80° W. Road, brs. N. 30° W. and S. 30° E.  Wash, 35 lks. wide, 2 ft. deep, course, N. 30° W.  Wash, 15 lks. wide, 1 ft. deep, course, N. 60° W.  Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap mkd.
	T 11 S R 6 E R 7 E S 25:S 30 S 36:S 31 1916 dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy loam, 1st rate. Timber, iron wood and palo verde.
	Undergrowth, greasewood and mesquite.
	North bet. secs. 25 and 30. Over level land, through scattering timber and undergrowth.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd. S 25 $\frac{1}{4}$ :S 30
	1916 dig pits 18 X18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
60.50 80.00	Wash, 15 1ks. wide, 1 ft. deep, course, N. 70° W. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, with brass cap mkd.
	T 11 S R 6 E R 7 E S 24:S 19 S 25:S 30 1916
	dig pits 18 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.  Land, level.  Soil, sandy loam, last rate.
	Timber, iron wood and palo verde. Undergrowth, greasewood and mesquite.
	North bet. secs. 19 and 24.  Over level land, through scattering timber and undergrowth.
40.00	Set an iron post 3 ft. long, l in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor. with brass cap mkd.  S 24 \(\frac{1}{4}\):S 19

1916

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East boundary of T.11 S., R.6 E.
 Chains
                      dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft.
                      dist. and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
                      high W. of cor.
              high W. of cor.

Wash, 10 lks. wide, 1 ft. deep, course, W.

Wash, 15 lks. wide, 1 ft. deep, course, W.

Wash, 25 lks. wide, 2 ft. deep, course, N. 60° W.

True point for cor. of secs. 13, 18, 19 and 24, falls in wash, 20 lks. wide, 2 ft. deep, course, N. 60° W.

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for W.C. of secs. 13, 18, 19 and 24, with
49.50
56.70
73.10
80.00
79.75
                     brass cap mkd.
                                                     W C
                                                   T 11 S
                                              R6ER7E
                                                   13:8 18
                                                S 24:S 19
                     1916
dig pits 18 X 18 X 12 ins. in each sec. 5 ft. dist.
and raise a mound of earth 4 ft. base, 2 ft. high
                     W. of cor.
              Land, level.
Soil, sandy loam, lst rate.
Timber, iron wood and palo verde.
              Undergrowth, greasewood and mesquite.
              North bet. secs. 13 and 18, from true point for cor. of secs.
              Over level land, through scattering timber and undergrowth.
             Wash, 15 lks. wide, 1 ft. deep, course, W. Wash, 10 lks. wide, 1 ft. deep, course, S. 70° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
  8.10
26.20
40.00
                     the ground for \frac{1}{4} sec. cor. with brass cap mkd. S 13 \frac{1}{4}:S 18
                                                     1916
                     from which,
                            An iron wood, 16 ins. in diam.,
                                                                                   brs. N. 50 W.
                                   113 lks. dist. mkd. \(\frac{1}{4}\) S 13 B T.
             No other trees within limits.
Dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist.
                     and raise a mound of earth, 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high
                     W. of cor.
             Wash, 20 lks. wide, 1 ft. deep, course, S. 80° W. Wash, 20 lks. wide, 1 ft. deep, course, S. 70° W. Wash, 15 lks. wide, 1 ft. deep, course, S. 80° W. Wash, 20 lks. wide, 1 ft. deep, course, S. 80° W. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, with
43.80
57.20
70.20
76.40
00.08
                    brass cap mkd.
                                                   T 11 S
                                             R 6 E R 7 E
                                                   13:S
                                                            18
                                                   1916
                    from which,
                         An iron wood, 10 ins. in diam., brs. N. 0° 5' E. 365 lks. dist. mkd. T 11 S R 7 E S 7 B T.
                           An iron wood, 12 ins. in diam., brs. N. 8930 W. 477 lks. dist. mkd. T 11 S R 6 E S 12 B T.
             No other trees within limits.
             Dig pits 18 X 18 X 12 ins. in each sec. 5\frac{1}{2} ft. dist. and
                    raise a mound of earth 4 ft. base, 2 ft. high W. of
                    cor.
             Land, level.
             Soil, sandy loam, 1st rate. Timber, iron wood and palo verde.
              Undergrowth, greasewood and cacti.
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.42

83

C:CS 1:S 6

Chains

R6ER7E T 11 S 1916

dig pits, 30 X 24 X 12 ins. crosswise on each line E. and W., 4 ft. and S. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high S. of cor.

Land, nearly level. Soil, sandy gravelly, 3rd rate. Timber, palo verde and iron wood. Undergrowth, greasewood, ocotillos and cacti.

Boundaries of T.11 S., R.6 E.

Latitudes, Departures and Closing Errors.

Latitudes. Departures. E. Line designated. True Bearing. Dist. N. S. W. chs. chs. chs. chs. chs. West bdy. North bdy. North 480.00 480.00 478.12 E ast 478.12 East bdy.
South bdy.
Convergency South 480.12 480.12 West 478.16 478.16 .46 Totals 480.00 480.12 478.58 478.16 480.00 Error in latitude Error in departure .12 478.16

dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.

Dim road, brs. N. 70° W. and S. 70° E. Wash, 10 lks. wide, 1 ft. deep, course, N. 40° W.

63 50 72.70 high N. of cor.

South boundary of T.11 S.R.7 E. Chains 00.08 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor, of secs. 4, 5, 32 and 33, with brass cap mkd. T 11 S R 7 E S 32:S 33 S 5 : S 4 T 12 S 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, level. Soil, sandy loam, gravelly surface, 2nd rate. Timber, palo verde and iron wood. Undergrowth, greasewood. East on a true line bet. secs. 4 and 33. Over level land, through scattering timber and undergrowth. Wash, 10 lks. wide, 1 ft. deep, course, N. 50° W. Wash, 10 lks. wide, 1 ft. deep, course, N. 50° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 10.90 35.40 40.00 the ground for 4 sec. cor. with brass cap mkd. S 33 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth 3t ft. base, 1t ft. high N. of cor. Wash, 15 lks. wide, 2 ft. deep, course, N. 70° W. Wash, 15 lks. wide, 2 ft. deep, course, S. 80° W. Wash, 15 lks.wide, 3 ft. deep, course, N. 80° W. 53.10 57 20 65.00 Set an iron post 3 ft. long, 3 ins. in diam., 24ins. in 00.08 the ground for cor. of secs. 3, 4, 33 and 34, with brass cap mkd. T 11 S R 7 E S 33:S 34 S 4:S 3 T 12 S 1916 dig pits 18 X 18 X 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor. Land, gently rolling. Soil, gravelly, 3rd rate. Timber, palo verde and iron wood. Undergrowth, greasewood and cacti. East on a true line bet. secs. 3 and 34. Over gently rolling land, through scattering timber and u undergrowth. Wash, 15 lks. wide, 1 ft. deep, course, N. 40° W. Wash, 15 lks. wide, 1 ft. deep, course, N. 40° W. Wash, 10 lks. wide, 1 ft. deep, course, S. 80° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 8.50 15.40 22.60 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 34 1916 dig pits 18 X 18 X 12 ins. E. and W: of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.

high N. of cor.

South boundary of T.11 S.R.7 E. Chains 78.70 Road, brs. N. 70° W. and S. 60° E. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with 80.00 brass cap mkd. T 11 S R 7 E. S 34:S 35 3 :S 2 T 12 S 1916 dig pits 18 X 18 X12 ins. in each sec. 5 ft. dist. and raise amound of earth 4 ft. base, 2 ft. high W. of cor. Land, level and gently rolling. Soil, gravelly, 3rd rate. Timber, palo verde and iron wood. Undergrowth, greasewood and cacti.

Mar. 31, 1916, at this cor. I set off 4° 16' N. on the decl. arc; and at apparent noon, observe the sun on the mer.; the resulting lat. is 32° 25' N. East on a true line bet. secs. 2 and 35. Over rolling land, through scattering timber and undergrowth. 7.00 Wash, 60 lks. wide, 3 ft. deep, course, N. 60° W. True point for # sec. cor. falls in wash, 45 lks. wide, 3 ft. deep, course, S. 70° W., therefore at Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 38.90 the ground for W.C. z sec. cor. with brass cap mkd. S 35 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor. NE. cor. of Bob Roy mining claim, brs. N. 40°lks. dist. 46.40 Wash, 45 lks. wide, 3 ft. deep, course, N. 80° W. Wash, 30 lks. wide, 3 ft. deep, course, N. 80° W. Asc. SW. slope, 20 ft. to 50.00 74.40 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 80.00 the ground for cor. of secs. 1, 2, 35 and 36, with brass cap mkd. T 11 S R 7 E S 35:8 36 S 2 :S 1 T 12 S 1916 and build a mound of stone, 3 ft. base, 2 ft. high W. of cor. Land, rolling. Soil, stony and gravelly, 3rd rate. Timber, palo verde and iron wood. Undergrowth, greasewood and cacti. East on a true line bet. secs. 1 and 36. Over rolling and hilly land, through scattering timber and undergrowth.
Asc. SW. slope, 78 ft. to 8.30 20.95

Desc: SE. slope, 80 ft. to Ravine, 40 lks. wide, 5 ft. deep, course, S. Asc. 43 ft. to

88 South boundary of T.11 S. R.7 E. Chains 31.10 Desc. 29 ft. to Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for # sec. cor. with brass cap mkd. S 36 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Thence over rolling.land. 47.00 Wash, 80 lks. wide, 2 ft. deep, course, SW. Road, brs. N. 40° E. and S. 40° W.
Wash, 20 lks. wide, 2 ft. deep, course, S. 70° W.
Ravine, 35 lks. wide, 4 ft. deep, course, S. 70° W.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 49.20 55.50 73.90 80.00 the ground for cor. of Ts.11 and 12 S., R.7 E., with brass cap mkd. T 11 S: R 7 E: <u>36</u>: \$ 36 \$ 1 T 12 S: 1916 from which, An iron wood, 8 ins. in diam., brs. S. 75° W. 58 lks. dist. mkd. T 12 S R 7 E S 1 B T. A mesquite, 6 ins. in diam., brs. N.  $32\frac{1}{2}$ ° W. 27 lks. dist. mkd. T ll S R 7 E S 36 B T. Also build a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high W. of cor. Land, rolling and hilly. Soil, stony, and gravelly, 3rd rate. Timber, palo verde, iron wood and mesquite. Undergrowth, greasewood, cat claw, ocotillos and cacti.

89 East boundary of T.11 S. R.7 E Chains Apr. 1, 1916, at 9h., a.m., l.m.t., I set off 32° 25' N. on the lat. arc; 4° 36' N. on the decl. arc; and determine a mer. with the solar at the cor. of Ts.11 and 1 12 S.,R.7 E. Thence North along E. bdy. of sec. 36. Over rolling land, through scattering timber and undergrowth. Ravine, 30 1ks. wide, 4 ft. deep, course, W. Wash, 20 1ks. wide, 1 ft. deep, course, W. Road, brs. S. 70° W. and N. 80° E. .60 13.00 15.15 Wash, 60 lks. wide, 3 ft. deep, course, W. 20.00 Ravine, 30 lks. wide, 4 ft. deep, course, S. 60° W. 36.20 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for \frac{1}{4} sec. cor. with brass cap mkd. S 36 1: 1916 dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Ravine, 100 lks. wide, 12 ft. deep, course, N. 70° W. Ravine, 80 lks. wide, 9 ft. deep, course, W. Ravine, 40 lks. wide, 5 ft. deep, course, W. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 62.50 72.30 78.10 80:00 the ground for cor. of secs. 25 and 36, with brass cap mkd. T 11 S R 7 E: S 25: 36: 1916 and build a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high W. of cor. Land, rolling. Soil volcanic ash, gravelly and stony, 3rd rate. Timber, palo verde and iron wood. Undergrowth, greasewood acotilios and cacti. North along E. bdy. of sec. 25. Over hilly land, through scattering timber and undergrowth. Asc. SE. slope, 160 ft. to 16.70 Spur, slopes SW. desc. N. and NW. slope, 46. ft. to 28.70 Ravine, 60 lks. wide, 12 ft. deep, course, S. 50° W. Asc. 35 ft. to Set an iron post 3 ft. long, 1 in. in diam., on surface 40.00 rock, in a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 25 1: 1916 Pits impracticable. Build a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor. Asc. 27 ft. to Spur, slopes, SW., asc. 54 ft. to Ridge, brs. N. 60° W. and S. 70° E., desc. N. slope, 194 42.00 48.10 ft. to 62.76 Asc. SW. slope, 80 ft. to 72.25 Desc. NE. slope, 186 ft. to 00.08 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 24 and 25, with brass cap mkd.

90		East boundary of T.11 S.R.7 E.
	Chains	T 11, S
	•	R 7 E:
		<u>s 24 :</u>
		S 25 : 1916
		and build a mond of stone, 2 ft. base, $1\frac{1}{2}$ ft. high
		W. of cor.
		Land, hilly and rolling.
		Soil, rocky, granite and quartz formation, 4th rate.  Timber, palo verde.
		Undergrowth, greasewood, cat claw, ocotillos and cacti.
	,	North along E. bdy. of sec. 24.
		Over rolling land, through scattering timber and under-
		growth. Desc. NE. slope, 74 ft. to
	10.35	Ravine, 40 lks. wide, 4 ft. deep, course, N. 20° W.
	16.20	Ravine, 50 lks.wide, 6 ft. deep, course, N. 20° W.
	23.25 27.15	Ravine, 40 lks. wide, 5 ft. deep, course, N. 70° W. Ravine, 80 lks. wide, 10 ft. deep, course, N. 20° E.
	21.10	Desc. 43 ft. to
	40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
		the ground for $\frac{1}{4}$ sec. cor. with brass cap mkd.
		D 24 T.
		1916
		dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
		high W. of cor.
	48.10	Ravine, 100 lks. wide, 6 ft. deep, course, N. 20° W. Desc. NE.slope, 23 ft. to
	71.60	Wash, 30 lbs. wide, 3 ft. deep, course, N. 30° W.
	80.00	Set an iron post 3 ft. long, 3 in. in diam., 26 ins. in
		the ground for cor. of secs. 13 and 24, with brass cap mkd.
		T 11 S:
		R. 7. E:
		S 13 S 24
	:	1916
		and build a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
		Land, rolling.
		Soil, stony and gravelly, 3rd rate.
		Timber, iron wood and palo verde. Undergrowth, greasewood, cat claw, ocotillos and cacti.
	-	
		North along E. bdy. of sec. 13.
		Over rolling and hilly land, through scattering timber and
		undergrowth. Asc. gradual SW. slope. 35 ft.
•	5.00	Asc. gradual SW. slope, 35 ft.  Wash, 100 lks. wide, 12 ft. deep, course, N. 30° W.  Wash, 60 lks. wide, 8 ft. deep, course, N. 30° W.  Wash, 80 lks. wide, 7 ft. deep, course, N. 30° W.
	11.60 15.60	Wash, 60 lks. wide, 8 ft. deep, course, N. 30° W. Wash, 80 lks. wide, 7 ft. deep 'course, N. 30° W.
	22.60	Ravine, 130 lks. wide, 16 ft. deep, course, S. 80° W.
	25.00	Asc. steep SW.slope, of malpais hill, 92 ft. to
	34 .90 40 .00	Desc. Desc. NW. slope, of hill 31 ft. to Set an iron post 3 ft. long, 1 in. in diam., on surface
		rock; in a mound of stone, 4 ft. base, 21 ft. high
		for \frac{1}{4} sec. cor. with brass cap mkd.

DOCK 3071

Chains	East boundary of T.11 S.R.7 E.	91
Chains	s 13 ½:	
49.20 60.00 62.00 77.80 80.00	Pits impracticable. Build a mound of stone, 2 ft. base, 1½ ft. high W. Desc. NW. slope, 91 ft. to Wash, 90 lks. wide, 8 ft. deep, course, W. Road, brs. N. 50° W. and S. 50° E. Wash, 20 lks. wide, 3 ft. deep, course, N. 30° W. Wash, 20 lks. wide, 2 ft. deep, course, N. 40° W. Set an iron post, 3 ft. long, 3 ins. in diam., 24 the ground for cor. of secs. 12 and 13, with becap mkd.	ins. in
	T 11 S: R 7 E: S 12: S 13:	
	and build a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. of cor.  Land, rolling and hilly.	high W
	Soil, stony and gravelly, 3rd rate. Timber, palo verde and iron wood. Undergrowth, greasewood and cacti.	
	Apr. 7, 1916, at 8h., a.m., l.m.t., I set off 32° 29 the lat. arc; 6° 53' N. on the decl. arc; and omine a mer. with the solar, at the cor. of secs. and 13.  Thence	deter-
3.40 26.10 37.40 38.00	North along E. bdy. of sec. 12.  Over rolling and hilly land, through scattering ting and undergrowth.  Ravine, 20 lks. wide, 3 ft. deep, course, N. 40° W. Wash, 20 lks. wide, 2 ft. deep, course, N. 40° W. Wash, 35 lks. wide, 2 ft. deep, course, N. 40° W. Asc. S. slope, of malpais hill, 277 ft. to top.	•
40.00	Set an iron post 3 ft. long, 1 in. in diam., on sur rock, in a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. h for $\frac{1}{4}$ sec. cor. with brass cap mkd.  S 12 $\frac{1}{4}$ :	face ligh
51.90	Pits impracticable. Build a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. Top of malpais hill brs.NW. and S. 40° E. Desc. 218 ft. to	of cor.
67.70 68.20 80.00	Foot of hill brs. W. and S. 40° E. Wash, 20 lks. wide, 2 ft. deep, course, N. 30° W. Set an iron post 3 ft. long, 3 ins. in diam., 24 in the ground for cor. of secs. l and 12, with bra cap mkd.	s. in
	T 11 S:  R 7 E:  S 1:  S 12:  1916  and build a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft.	hi gh
	W. of cor. Land, rolling and hilly. Soil, stony and gravelly, 3rd rate. Timber palo verde and iron wood. Undergrowth, greasewood, ocotillos and cacti.	0**

92 houndary of T 11 Chains North along E. bdy. of sec. 1. Over gently rolling land, through scattering timber and undergrowth. Ravine, 30 lks. wide, 4 ft. deep, course, N. 30° W. Wash, 15 lks. wide, 2 ft. deep, course, N. 20° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 1.50 29.10 40.00 the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 1  $\frac{1}{4}$ : 1916 and build a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high W, of cor. Wash, 20 lks. wide, 2 ft. deep, course, N. 30° W. Intersect 2nd standard parallel S. 24.64 chs. E. of the 45.50 80.41 standard & sec. cor. of sec. 36, which is an iron post lin. in diam., properly set, mkd. and witnessed as described by the Surveyor General. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for C.C. of Ts.11 S., Rs. 7 and 8 E., with brass cap mkd. C:C SItS 2 R 7 E:R 8 E T 11 S 1916 from which, An iron wood, 14 ins. in diam., brs. S. 58° E. 237 lks. dist. mkd. T 11 S R 8 E S 2 B T. No other trees within limits. Build a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high S. of cor. Land, gently rolling. Soil, gravelly, 2nd rate. Timber, palo verde, and iron wood. Undergrowth, greasewood, cat claw, and cacti. Boundaries of T.11 S., R.7, E. Latitudes, Departures and Closing Errors. Latitudes. Departures. W. N. S. E. Line designated. True bearing. Dist. chs. chs. chs. chs. chs. 480.12 480.12 West bdy. North 478.02 North bdy. East 478.02 480.41 480.41 South East bdy. 478.16 478.16 South bdy. West .46 Convergency 480.12 480.41 478.48 478.16 Totals 480.12 Error in latitude Error in departure .29 478.16

.32

	•	307)
Chains	South boundary of T.11 S. R.8 E.	93
ť	Survey commenced Apr. 11, 1916, and executed with a and Son's light mountain transit No.8592, as he fore described.	reto=
	From recent and repeated field tests, I know the tr and solar attachment to be in satisfactory adjument.	st-
	Apr, 11, 1916, at 11h., a.m., 1.m.t., I set off 32° 2 on the lat. arc; 8° 24' N. on the decl. arc; and determine a mer. with the solar, at the cor. of 11 and 12 S., Rs. 8 and 9 E., which is an iron poins. in diam., properly set, mkd. and witnessed described by the Surveyor Gemeral.  Thence	Ts.
	West on a true line bet. secs. 1 and 36. Over rolling and hilly land, through scattering time and undergrowth.	ber
12.20 14.35	Asc. gradual E. slope, 227 ft. to \(\frac{1}{4}\) sec. cor.  Low spur slopes, N. 40° E.  Ravine, 250 lks. wide, 30 ft. deep, course, N. 40° l	E •
40.00	Set an iron post 3 ft. long, l in. in diam., on surrock, in a mound of stone, 4 ft. base, $2\frac{1}{2}$ ft. his for $\frac{1}{4}$ sec. cor. with brass cap mkd.	face
	S1 1916 Pits impracticable.	
46.55	Build a mound of stone, 2 ft. base, $l\frac{1}{2}$ ft. high N. Ravine, 2 chs. wide, 16 ft. deep, course, N. 40° E.	of cor.
50.00	Asc. rocky E. slope, 302 ft. to  Set an iron post 3 ft. long, 3ins. in diam., on surrock, in a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. his for cor. of secs. 1, 2, 35 and 36, with brass can T ll S R 8 E	iøh
	S 35:S 36 S 2:S 1 T 12 S 1916 Pits impracticable. Build a mound of stone, 3 ft. base, 2 ft. high W. of	8
	Land, rolling and hilly. Soil, gravelly and stony, 4th rate. Timber, palo verde and iron wood. Undergrowth, greasewood, cat claw, ocotillos and cad	
	West on a true line bet. secs. 2 and 35.  Over mountainous land, through scattering timber and growth.  Asc. E. slope, 138 ft. to	l under-
9.00 13.94 15.83	Change to N. slope. Desc.,74 ft. to Age. 15 ft. to	
17.00 22.00 40.00	Thence over rolling land, to Asc. NE. slope, 401 ft. to Set an iron post 3 ft. long, 1 in in diam., on surf	200
10.00	rock, in a mound of stone, 4 ft. base, $2\frac{1}{2}$ ft. hi for $\frac{1}{4}$ sec. cor. with brass cap mkd.  S 35	gh
	S 2 1916 Pits impracticable.	
42.20 63.80	Build a mound of stone, 2 ft. base, $l\frac{1}{2}$ ft. high N. o Asc. NE. slope, 49 ft. to Spur slopes, S. 85° E., asc. SE. slope, 345 ft. to Top of ridge, brs. N. and S., 746 ft. above sec. cor	
80.00	Desc. W. and SW. slope, 244 ft. to  Set an iron post 3 ft. long, 3 ins. in diam., 6 ins. the ground to solid rock, in a mound of stone	
	the ground to solid rock, in a mound of stone	

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94
                   South boundary of T.El S. R.8 E.
   Chains
                3 ft. base, 2 ft. high, for cor. of secs. 2, 3, 34
               and 35, with brass cap mkd.
                                T 11 S R 8 E
                                  34:S 35
3:S 2
                                   T 12 S
                                    1916
           Pits impracticable.
           Build a mound of stone, 3 ft. base, 2\frac{1}{2} ft. high W. of cor.
           Land, mountainous.
           Soil, rocky, granite and quartzite formation, 4th rate.
           Timber, scrub palo verde.
           Undergrowth, greasewood, cat claw, ocotillos and cacti.
           West on a true line bet. secs. 3 and 34.
           Over mountainous land, through scattering timber and
               undergrowth.
           Along S. slope
   3.00
           Spur slopes, SW., desc. W. slope, 241 ft. to
  16.51
           Asc. 21 ft. to
           Ridge, brs. S. 70° W. and N. 70° E. Desc. NW. slope, 192 ft. to
  21.30
           Ravine, 70 lks. wide, 118 ft. deep, course, S. 60° W.
   38.50
           Over gradual SE. slope, to
           Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in
  40.00
                the ground to solid rock, in a mound of stone, 3 ft.
                base, 2 ft. high, for } sec. cor. with brass cap mkd.
                               1916
                and build a mound of stone, 3 ft. base, 2 ft. high
                N. of cor.
           Asc. SE. slope, 89 ft. to
  45,85
           Spur slopes SW., desc. 81 ft. to
  52.10
                    70 lks. wide, 16 ft. deep, course, S. 10° W.
           Asc. 160 ft. to ridge.
           Peak NE. of Silver Bell, brs. N. 80° 47' W.
  66.03
           Top of ridge brs. SW. and NE.
           Desc. NW. slope, 235 ft, to
           Set an iron post 3 ft. long, 3 ins. in diam., 18 ins. in the ground, to solid rock, in a mound of stone, 2 ft. base, 1 ft. high, for cor. of secs. 3, 4, 33
  80.00
                and 34, with brass cap mkd.
                               T 11 S R 8 E
                                 <u>S 33:S 34</u>
                                  4 :S 3
T 12 S
                                    1916
                and build a mound of stone, 3 ft. base, 2 ft. high
                W. of cor.
           Land, mountainous.
           Soil, rocky, granite and quartz formation, (Silver Bell
                Mining District.)
           Timber, scrub palo verde.
           Undergrowth, greasewood, cat claw, ocotillos and cacti.
           West on a true line bet. secs. 4 and 33.
           Over mountainous Land, through scattering timber and
                undergrowth.
           Desc.100 ft.to
    7.36
           NE. cor. of Maricopa Claim., Desc. 23 ft. to Asc. 25 ft. to
  12.29
  14.66
           Desc. 99 ft. to ravine.
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South boundary of T.11 S. R.8 E.
                                                                                       95
 Chains
 20.50
            Adobe, house 12 X 18 ft. on line.
 22.10
            Ravine, 40 lks. wide, 6 ft. deep, course, S. 30° W. Asc. 28 ft. to
 37.20
            Three wire power line, brs. N. 100 W. and S. 100 E.
            Desc. 72 ft. to # sec. cor.
Road, brs. S. 20° W. and N. 20° E.
 39.50
            Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground to solid rock, in a mound of stone, 3 ft. base, 1½ ft. high, for ½ sec. cor. with brass cap mkd.
 40.00
                                     1916
                 and build a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high N.
                 of cor.
           This cor. falls within the townsite of Silver Bell, which consists of about 125 houses.
           Ravine, 3 chs. wide, 40 ft. deep, course, N. 35° W. Board fence, brs. N.80° W. and S. 80° E. Telephone line, brs. N. 20° W. and S. 20° E.
42.70
44.10
44.20
           Claim cor. brs. S. 24° 13' E., which is a wooden post,
4 ins. square, set in a mound of stone, mkd. 7-1819B
on N. side, 7-1987BE on E. side, 3-1990L on W. side.
44.90
45.26
           SE. cor. of hotel.
           Thence, offset S., 158 lks.; rhen run on offset line, west.
47.11
           SE. cor. of company store, brs. S. 26° 35' E. 5,60 chs.
                 dist.
           Offset N. 158 lks. to true line. Asc. E. slope, 57 ft. to
47.56
           Arizona Southern R.R., curve, SE. and NE.
55.20
           Top of hill NE. of Silver Bell brs. N. 750 52' E. to
                 signal on top.
           Asc. 109 ft. to top of ridge. SW. cor. of house on line.
57.05
           Top of ridge, brs. S. 10° E. and N. 20° W. Desc. 64 ft. to telephone line.
62.80
65.00
           Steel hoist brs. S. 7 chs. dist.
67.05
           Telephone line, brs. S. 20° E. and N. 20° W.
           Asc. 75 ft. to
           Spur slopes SW., desc. SW. slope, 196 ft. to
72.15
          Set an iron post 3 ft. long, 3 ins. in diam., 18 ins. in the ground, to solid rock, in a mound of stone, 2 ft. base, 1 ft. high, for cor. of secs. 4, 5, 32 and 33,
00.08
                with brass cap mkd.
T ll S R 8 E
                                     <u>5 32:5 33</u>
                                     S 5 :S 4
T 12 S
                                         1916
                and build a mound of stone, 3 ft. base, 2 ft. high
                W. of cor.
          Land, mountainous.
          Soil, rocky, granite and quartz formation, 4th rate.
          Timber, scrub palo verde.
          Undergrowth, greasewood, cat claw, ocotillos and cacti.
          Apr. 14, 1916, at 10 h., a.m., l.m.t., I set off 32° 25' N. on the lat. arc; 9° 29' N. on the decl. arc; and
                determine a mer. with the solar, at the cor. of secs.
                4, 5, 32 and 33.
          Thence
          West on a true line bet. secs. 5 and 32.
          Over mountainous land, through scattering timber and
               undergrowth.
          Asc. E. slope, 180 ft. to top of ridge. Head of ravine, course, S. 10° E.
  .56
 7.65
          Top of ridge brs. S. 10° E. and N. 20° W.
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South boundary of T.11 S.R.8 E.
96
   Chains
               Desc. over broken SW. slope, 457 ft. to
True point for $\frac{1}{4}$ sec. cor. falls in ravine, 40 lks. wide,
5 ft. deep, course, N. 70° W., therefore at
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
   40.00
   40.50
                      the ground, for # secolcof. with brass cap mkd.
                                           S 32
                                           S.5 WC
                                           1916
                      and build a mound of stone, 3 ft. base, 2 ft. high
                     N. of cor.
               Thence over rolling land.
               Ravine, 80 lks. wide, 25 ft. deep, course, N. 50° W. Ravine, 80 lks. wide, 10 ft. deep, course, N. 50° W.
   46.70
   58.20
   60.75
               Dim road, brs. NW. and S. 10° E.
   66.85
               Ravine, 40 lks. wide, 5 ft. deep, course, N. Ravine, 70 lks. wide, 6 ft. deep, course, N. 50° W.
   74.15
               Set m iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, with
   .00.08
                     brass cap mkd.
                                           T 11 'S R 8 E
                                            S:31:S 32
                                            S 6 :S 5
                                                T 12 S
                     and build a mound of stone, 3 ft. base, 2 ft. high
                     W. of cor.
               Land, mountainous and rolling.
               Soil, rocky, granite and quartz formation, 4th rate.
                Timber, scrub palo verde.
               Undergrowth, greasewood, cat claw, ocotillos and cacti.
               West on a random line bet. secs. 6 and 31.
               Over rolling, land, through scattering timber and under-
                      growth.
               Desc. gradual NW. slope 29 ft. to
   ୍ୟସ. 01
               Thence over rolling land.
               Wash, 35 lks. wide, 3 ft. deep, course, N. 70° W. Wash, 30 lks. wide, 2 ft. deep, course, N. 40° W. Wash, 40 lks. wide, 3 ft. deep, course, S. 85° W. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
   32.80
    34.80
   38.65
   40.00
                     the ground for \( \frac{1}{2} \) sec. cor. with brass cap mkd. S 31
                                           1916
                      and build a mound of stone, 3 ft. base, 2 ft. high
                      N. of cor.
               Wash, 50 lks. wide, 3 ft. deep, course, N. 60° W. Road, brs. N. 60° W. and S. 60° E. Ravine, 50 lks. wide, 5 ft. deep, course, N. 60° W.
   54.00
   59.20
   68.50
               At this point Apr. 14, 1916, at 8h., a.m., l.m.t., I set off 32° 25' N. on the lat. arc; 9° 49! N. on the decl. arc;
   80,00
                      and determine a mer. with the solar.
                Thence
                Continue line west.
               Wash, 15 lks. wide, 3 ftt deep, course, N. 70° W.
  105.20
               Wash, 15 lks. wide, 2 ft. deep, course, N. 40° W. Wash, 20 lks. wide, 3 ft. deep, course, S. 60° W. Road, brs. S. 70° W. and N. 80° E. Intersect W. bdy. of tp. 15.86 chs. N. of cor. of Ts. 11. and 12 S., R. 7 E., hereinbefore described.
  110.00
  136.70
  141.40
  142.12
                Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
                      the ground for C.C. of Ts.11 and 12 S., R.8 E., with
                      brass cap mkd.
```

97 South boundary of T.11 S.R.8 E. Chains :T11 S vaite of :R 8 E :S 31 :S 6 :T 12 S 1916 dig pits 30 X 24 X 12 ins. crosswise on each line, N., and S. 4 ft. and E. of cor. 8 ft. dist. and raise a mound of earth 5 ft. base,  $2\frac{1}{2}$  ft. high E. of cor. Land, rolling. Soil, gravelly and stony, 3rd rate. Timber, iron wood and palo verde. Undergrowth, greasewood, cat claw, ocotillos and cacti. Boundaries of T.11 S., R.8 E. Latitudes, Departures and Closing Errors. Latitudes. Departures. E. W. Line designated. True bearing. Dist. S. N. chs. chs. chs. chs. chs. 464.55 464.55 West bdy. North 99.30 99.30 East N. bdy. South 29.75 29.75 441.85 441.85 East 435.10 435.10 East bdy. South South bdy. West 542.12 542.12 .46 464.55 464.85 **5**41.61 542.12 Convergency Totals

Error in latitude Error in departure 464.55

541.61

.51

GLO Corner #18 - Papago Indian Reservation.

An iron post, 3 ins. diam., 9 ins. up, firmly set in ground, with brass cap mkd.

> T 11 8 R 8 E 8 31 8 6 T 12 8 (1936 added)

Reset in coherete, 36x15x9 ins., 34 ins. deep. from which

Reference mark No. 1 bears west, 12.265 metres dist.

Reference mark No. 2 bears north, 15.335 metres dist., both on NW. side of road, bears NE. to Silverbell and SW. to Jackrabbit.

Corner is at a Borner of the Papago Indian Reservation boundary fence; fence bears 3. and E.; reservation lies to SE.; corner is on SE. side of road.

Corner is observed from Silverbell and Vaca; and occupied to close the triangle.

Corner can be reached from Silverbell (4 miles easterly) as follows:

From flagpole, SW. of big wash, in Silverbell, go N. on MTR.

- Turn left from MTR onto well traveled road, goes westerly
- 0.4
- Road forks, take left, across wash.
  White buildings, left and right (2 each) go straight ahead.
  Road forks, take left. 0.15
- 0.6
- 0.3 Cemetery on left.
- Road forks, keep right. 0.75
- Cor. #18, on left side of road.

Roger F. Wilson U.S. Transitman

(Silverbell is shown on road maps.)

	Retracement of the S. bdy. of T.1 S.R.2 W. 99
Chains	Retracement commenced Feb. 12, 1916, and executed with a Young and Son's light mountain transit No.8592, as described in book. "A".
	From redent and repeated field tests I know the transit a and solar attachment to be in satisfactory adjustment.
	At lh., p.m., l.m.t., I set off 33° 17' N. on the lat. arc; 13° 54' S. on the decl. arc; and determine a mer. with the solar, at the cor. of Ts.l S., Rs.l and 2 W. which is an iron post 3 ins. in diam., properly set, mkd. and witnessed as described by the Surveyor General.
40.00	Thence West along S. bdy. of sec. 36. After diligent search, find no trace of original \(\frac{1}{4}\) sec. cor.
80.00	Set temp. 4 sec. cor. and continue line.  After diligent search, find no trace of original cor. of secs. 1, 2, 35 and 36.  Set temp. cor. of secs. 35 and 36.
-	
39.82	Continue line West along S. bdy. of sec. 35. Original 1 cor. of secs. 2 and 35, which is a wooden post, mkd. and witnessed as described by the Surveyor General, brs. S. 2 lks. dist.
	True bearing of line back to cor. of Ts.1 S., Rs.1 and 2 W. is east.
40.12	Set over cor. and continue line West along S. bdy. of sec. 35. Original cor. of secs. 2, 3, 34 and 35, which is a quartz stone, properly set, mkd. and witnessed as described
	by the Surveyor General, brs. N. 8 lks. dist. True course, of line back to \(\frac{1}{4}\) sec. cor. isS. 89° 53' E.
39.96	Set over cor. and continue line West along S. bdy. of sec. 34. Original \(\frac{1}{4}\) cor. of secs. 3 and 34, which is a wooden post badly decayed, properly set and witnessed as described
* * · · · · · · · · · · · · · · · · · ·	by the Surveyor General, brs. N. 7 lks. dist. True bearing of line back to sec.cor. isS. 89° 54' E.
39.94	Set over cor. and continue line West along S. bdy. of sec. 34. Original cor. of secs. 3, 4, 33 and 34, which is determined by position of old pits and mound, (post destroyed), brs. N. 7 lks. dist. Old B.T., NE. is dead. True bearing of line back to \(\frac{1}{4}\) sec. cor. is S. 89° 54' E.
<b>39.</b> 96	Set over cor. and continue line West along S. bdy. of sec. 33. Original ½ cor. of secs. 4 and 33, which is anwooden post, broken off and decayed; witnessed as described by the Surveyor General, brs. N. 30 lks. dist. True bearing of line back to sec. cor. is S. 89° 34' E.
39.92	Set over cor. and continue line West along S. bdy. of sec. 33. Original cor. of secs. 4, 5, 32 and 33, determined by position of pits and mound, (post destroyed), brs. N. 12 lks. dist. True bearing of line back to 4 sec. cor. is S. 89° 50' E.

 190	Retracement of S. bdy. of T.1 S. R.2 W.	
Chains		
	Set over cor, and continue line	
	West along S. bdy. of sec. 32.	
40.00	Original $\frac{1}{4}$ cor. of secs. 5 and 32, which is a granite	
1	stone, properly set, mkd. and witnessed as described	
	by the Surveyor General,	
	True bearing of line back to sec. cor. is East.	
	Continue line	
,	West along S. bly. of sec. 32.	
40.05	Original cor. of secs. 5, 6, 31 and 32, determined by	
	position of pits and mound, (post destroyed), brs.	
	S. 15 lks. dist.	
	True bearing of line back to $\frac{1}{4}$ sec. cor. is N. 89° 47' E.	1
,		
	Set over cor. and continue line	
	West along S. bdy. of sec. 31.	
41.10	Original $\frac{1}{4}$ cor. of secs. 6 and 31, which is a wooden post	
	badly decayed, lying on ground, with pits and mound	-
	still visible, brs. N. 56 lks.	-
	True bearing of line back to sec. cor. is S. 89° 12' E.	
	Set over cor. and continue line	
	West along S. bdy. of sec. 31.	-
38.9 <b>3</b>	Original cor. of Ts.1.S., Rs.2 Sand 3 W. determined by pits	7
	pits, (post destroyed), brs. S. 16 lks. dist.	
	True bearing of line back to 1 sec. cor. is N. 89° 46' E.	
		-
		-
		İ
	Retracement of E. half mile of S. bdy. of sec. 35, S.	
	bdy. of T.3 S.,R.1 W.	1
		+
	Cot amon and whal son of Ma 1 C Da 9 and 7 W and	
. Σ	Set over original cor. of Ts.1 S., Rs.2 and 3 W. and	-
	continue line	
	West along S. bdy. of sec. 35.	
39.30	Original \(\frac{1}{4}\) cor. of secs. 1 and 36, which is a wooden post	1
	mkd. and witnessed as described by the Surveyor	-
	General,	
	True bearing of line back to tp. cor. is East.	
		1

Resurvey of the S. bdy. of T.1 S. R. 2 W. 101 Chains At the cor. of Ts.1 S., Rs.1 and 2 W. heretofore described. Thence West on a true line along S. bdy. of sec. 36. Over level land, through undergrowth. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 39.94 the ground & sec. cor. with brass cap mkd. S 36 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Change to gently rolling land. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 35 and 36, with brass 50.00 79.88 cap mkd. TISR2W S 35:S 36 1916 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor. Land, Level. Soil, sandy loam, 1st rate. No timber. Undergrowth, greasewood and cacti. West on a true line along S. bdy. of sec. 35. Over level land, through undergrowth. Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in 39.94 the ground for  $\frac{1}{4}$  sec. cor. and C.C. of secs. 2 and 3 T.2 S., R.2 W., mkd. and witnessed as described in notes of subdivision of T.2 S., R.2 W. Thence N. 89° 53' W. on a true line along S. bdy. of sec. 35. 40.12 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 34 and 35, with brass cap mkd. T1SR2W S 34:S 35 1916 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor. Land, level. Soil, sandy loam, 1st rate. No timber. Undergrowth, greasewood and cacti. N. 89° 54' W. on a true line along S. bdy. of sec. 34. Over level land, through undergrowth.

Set an iron post 3 ft. long, l in. in diam., 26 ins. in the ground in place of original \(\frac{1}{4}\) sec. cor., for 39.96 isec. cor. with brass cap mkd. S 34 dig pits 18 X 18 X 12 ins. E. and W. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $2\frac{1}{2}$  ft. high

N. of cor.

Thence

102 Resurvey of S. bdy. of T.1 S.R.2 W. Chains 66.16 Road, brs. N. and S. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for core of secs. 33 and 34, with brass 79.90 cap mkd. TISR2W S 33:S 34 1916 dig pits24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of Land, level. Soil, sandy clay, 1st rate. No timber. Undergrowth, greasewood. N. 89° 34' W. on a true line along S. bdy.of sec. 33. Over gently rolling land, through undergrowth. 39.96 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, in place of original cor. for  $\frac{1}{4}$  sec. cor. with brass cap mkd. S 33 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Thence N. 89° 50' W. along S. bdy. of sec. 33. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 39.92 the ground for cor. of secs. 32 and 33, with brass cap mkd. T 1 S R 2 W S 32:S 33 ' 1916 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor. Land, gently rolling. Soil, sandy clay, 2nd rate. No timber. Undergrowth, greasewood. West on a true line along S. bdy. of sec. 32. Over level land, through scattering undergrowth. Wash, 40 lks. wide, 5 ft. deep, course, S.
Wash, 30 lks. wide, 4 ft. deep, course, S. 10° E.
Set an iron post 3 ft. long, l in. in diam., 26 ins. in
the ground, in place of original cor., for ‡ sec. cor. 22.25 33.30 40.00 with brass cap mkd. S 32 1916 and build a mound of stone, 3 ft. base, 2 ft. high N. of cor. S. 89° 47' W. on a true line along S. bdy. of sec. 32. Wash, 80 lks. wide, 3 ft. deep, course, N. 50° W. Road, brs. N. and S. Wash, 30 lks. wide, 2 ft. deep, course, N. 30° W. 5.55 22.85 36.75

BOOK 3071

Resurvey of the S. bdy. of T.1 S. R.2 W. 103 Chains Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in 40.05 the ground for cor. of secs. 31 and 32, with brass cap mkd. T1SR2W S 31:S 32 1916 dig pits 24 X 24 X 12 ins. in each sec. 6 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor. Land, level. Soil, gravelly and stony, 2nd rate. Timber, none. Undergrowth, greasewood and cacti. N. 89° 12' W. on a true line along S. bdy. of sec. 31. Over level land, through undergrowth.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in 41.10 the ground for \(\frac{1}{2}\) sec. cor. with brass cap mkd. S 31 1916 dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor. Thence S. 89° 46' W. on a true line along S. bdy. of sec. 31. Wash, 120 lks. wide, 3 ft. deep, course, N. 10° E.

Wash, 60 lks. wide, 1 ft. deep, course, N. 10° E.

Wash, 20 lks. wide, 1 ft. deep, course, N. 70° E.

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground, in place of original tp. cof., for cor. 12.63 18.43 22.30 38.93 of Ts.1 S., Rs.2 and 3 W., with brass cap mkd. T 1 S R 3 W R 2 W S 36:S 31 1916 dig pits 30 X 24 X 12 ins. E. and W., 4 ft. and N. of cor. 8 ft. dist. and raise a mound of earth  $5\frac{1}{2}$ ft. base, 2½ ft. high N. of cor. Land, level. Soil, sandy clay, 1st rate. No timber. Undergrowth, greasewood. Resurvey of E.  $\frac{1}{2}$  mile of S. bdy. of sec. 36, S. bdy. of T.1 S.,R.3 W. West on a true line along S. bdy. of sec. 36. Over level land, through undergrowth.

Ravine, 30 lks. wide, 4 ft. deep, course, S. 40° E.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, in place of 4 sec. cor., for 4 sec. cor. 29.10 39.30 with brass cap mkd. S 36 ż

dig pits 18 X 18 X 12 ins. E. and W. of cor. 3 ft. distinct. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.

high N. of cor.

1604 Resurvey of S. bdy. sec. 36, T.1 S. R.3 W.

Chains

Land, level.
Soil, sandy clay, lst rate.
No timber.

Undergrowth, greasewood.

## CERTIFICATE OF UNITED STATES SURVEYOR.

I,W. K. Kierulff , U. S. Surveyor, hereby certify upon honor that, in pursuance
of special instructions received from the U.S. Surveyor General forGroup_58, Arizona,
bearing date of the8th day ofQctober, 191 5, 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 ofthe North bdy.
of T. 5 S., R. 1 E., and the South Bdy. of T. 6 S., R. 1 E.
of the Gila and Salt
River Base & Meridian, in the State ofArizona, which are represented in
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 58, Arizona
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
such survey.
Transityan = E.S. STAREFOR
Us Davidor.
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Who foregoing filld notes of the surrous of
The foregoing field notes of the survey of
executed by
under his special instructions dated, 191 , 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.
I certify that the foregoing transcript of the field notes of the above-described surveys in
, has been correctly copied from the original notes on file in this office.

## CERTIFICATE OF UNITED STATES SURVEYOR.

I,W. G. Shapcott, U. S. Surveyor, hereby certify upon ho	nor that, in pursuance
of special instructions received from the U.S. Surveyor General for Group 58, An	izona,
bearing date of the 8th day of October, 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 ofthe	N.bdy.of T.3
S., R.1 E., and the West bdy. of T.4 S., R.1 W., and res	surveyed all
those parts or portions of the South bdy. of T.4 S., R.	₩.,
·	
River Base and Meridian, in the State of Arizona, who	
the foregoing field notes as having been executed by me, and under my direction; and	
said survey have been established and perpetuated in strict accordance with the Manual	• •
tions, and the special written instructions of the U. S. Surveyor General forGroup_	
and in the specific manner described in the field notes, and that the foregoing are the such survey, and resurvey.	original field notes of
J. G. Shapcott,	O II S Samayaran
By 11.36.	J.S. Surveyor.
	S. Surveyor, of of Party.
OFFICE OF THE UNITED STATES SURVEYOR	General.
	101
The foresting field notes of the surrour of	·
The foregoing field notes of the survey of	
	<del></del>
executed by	
under his special instructions dated	, 191 , having been notes, and the surveys
they describe, are hereby approved.	
	J. S. Surveyor General.
I certify that the foregoing transcript of the field notes of the above-described surve	
, has been correctly copied from the original notes on	
	7. 9. 9

6-2764

CERTIFICATE OF UNITED STATES SURVEYOR.
ECCK.
I, W. H. Thorn, U. S. Surveyor, hereby certify upon honor that, in pursuance
of special instructions received from the U.S. Surveyor General for Group 58-Arizona
bearing date of the 8th day of October, 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 the West bdrs of Ts.
2.S., Rs. I and 2 W., the North and West bors of T.35, R.I.W., the South West
and North bdrs of T.3S.R.2W., the North bdy of T.4S.R.IW., the East bdy of T.5S.,
RIE., the South bdy of T.75 RIE, the West South and East bdrs of T.IIS.R.6E, the South and East bdrs of T.IIS R.7E and the South bdry of T.IIS R.8E and RESURVEYED all those parts or portions of the South bdrs of Ts.IS, Rs. 2 and 3 W., and the West bdy of T.4S.R.2E. of the Gila and Salt
River Base and Meridian, in the State of Arizona, which are represented in
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 58, Arizona
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
such survey.  W.S. Surveyor.
APPROVAL.
Office of the United States Surveyor General,
Phoenix, Arizona, May 25, 1918.
The foregoing field notes of the survey of retracement and resurvey of all those
boundaries or parts of boundaries of Ts.3,4,5,6 and 7 s.R.1 E.Ts.
1,2,3 and 4 S.,R.1 W., Ts.1,2,& 3 S.,R.2 W., and Ts.11 N.,Rs.6,7 and
8 E. of the Gila and Salt River Base and Meridian, in the State of Ari-
zona, which are represented on the diagram on page 2 hereof, as having
been executed by
W. H. Thorn, U.S. Surveyor, W.G. Shapcott, U.S.
Surveyor, and W.K.Kierulff, U.S. Transitman,
under his special instructions dated Oct.8,1915.for Group 58, Arizona., 191, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.
Frank Down
U. S. Surveyor General.  I certify that the foregoing transcript of the field notes of the above-described surveys in
, has been correctly copied from the original notes on file in this office.