FIELD NOTES

OF THE SURVEY OF THE

	'/
	8th. Standard Parallel North, through R.8 W.
	and through Part of R.7 W., and
	Part of the Subdivision of T.32 N., R.8 W.
	·
	······································
	·
,	
In the Sta	Of the Gila and Salt River Base and Meridian, te of Arizona
	EXECUTED BY
	Dupree R. Averill
	Daproo H. Avorill
	·

In the earn	acity of U.S. Surveyor, under Special Instructions datedQctober_12, 19
in the cape	
issued by	the United States Surveyor General to govern surveys included in Gre
No. 72.	Arizona., which were approved by the Commissioner of the General La
•	
Office, OG	ctober 24 , 1916, and Assignment Instructions dated April 3 , 19 and August 11, 1921.
	and August II, 1921.
	Grand comment of Anomat 17
	Survey commenced August 13 , 1917
	Survey completed December 13 , 1921 6-

 \mathcal{Y}_{J}

Book "J" Group 72 - Arizona

BOOK 3625

INDEX DIAGRAM.

	Towns	hip3	5	. Range	7_1	8 10	• • •
, / · · · ·	6 15	<i>8th</i> ⁵ 1	<i>Standard</i> 3 ⁴ 1	Parallel 3 1	<i>North</i> 1	1	
. —	16	15	14	12	11.	PESE PAAT	
	" 16 18	s 1	4 9 1	10	RIVE AN	12	
	18 18	17 OR	10016-100 1.32N	المنطقة تتبار		710 ¹¹	
		20 20	21	22 R	28	<u>*************************************</u>	
	19 NORTH	29 PAI	1 ND 1 F		26	sis	
	31 H ^U	ALPAI 82	83	84	86	36	

Lines surveyed under this group.

_____ Accepted surveys.

..... Unsurveyed.

TITITITIE Areas surveyed as per accepted plats on file.

Book "J"
Group 72 - Arizona
DATE DIAGRAM

Part of T. 32 N., R. 8 W.

٠.					,							
			•		8th 5	fan	dard	F	Parallel /	North		
	8-	13-1	7		8-14-17		3-14-17	k	8-15-17	8-15-17	8-15-1'	7 8-24-17
		. 8	-14-1	7	•			17		The state of the s	2	
,	8VE)		-6	Į.	5	28-17	4	24-	2 29-13	2	7	
•	OF SURVEY SEE BOOK "K			8-29-		ന		ø	ထ		6	
	50	8-	29-17		8-29-17	- 8	3-28-17	'	8-24-17	8-24-17		
	OF RANGE LINE S	•	7	2-12-21	8	2-13-21 8-28-17	9	8-28-17	10	11 p	1v.e ^V 12	i
	0 F K	. 12	2-12-2	. T	12-13-21	7		;	•			
		-		ন		-	•	•	719		ing district and the second of	
	FOR DATES OF THIS PART	• .		2-13-		• !	3.0					
	THIS I		18	12	17	•	· 16	PY	15	14	13	
	070	12	13-21	ı								
	,		***	• • •							ee tool grant to	
			10		20)		21		22	23	54	
	ļ	1	19	. 36	20`		21		26		24	
٠.									: • · · ·			
						• .						
					4				•			
			30		29		28		27	26	25	
										and the second second	· ·	
•	-			e sar						to the second	E	
			• *			•						
			31		32	. •	33		34	35	36	
			•.*		•				•	t	*	:
•		1										1

Lines in black surveyed by Dupree R. Averill

Survey commenced August 13, 1917, and executed with Young and Sons light mountain transits Nos. 8480 and 8478, and Buff and Buff light mountain transits Nos. 9208 and 10125; each instrument is equipped with full vertical circle and Smith solar attachment; unless otherwise specified, all azimuth determinations are accomplished with the solar attachment.

Field Test of Instruments Nos. 8480, 8478, and 9208.

- August 11, 1917. We examine the adjustments of the instruments and correct all errors; then, to test the solar apparatus, by comparing their indications, resulting from observations made during a.m. and p.m. hours with a meridian established by Polaris observations, we proceed as follows:
- At our camp in sec. 25, T. 33 N., R. 8 W., G. and S. R. B. and M., Arizona, lat. 36°13½'N., long. 113°6½'W., at 10 hrs. 14 m. p.m., 1.m.t., we observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, and marking the mean point in the line thus determined on a peg driven firmly in the ground, 5 chs. N.

Azimuth of Polaris at eastern elongation is 1°24 1.

- August 12, 1917. At 8 hrs. 0 m., a.m., l.m.t., we lay off the azimuth of Polaris, 1°24½; to the west, and mark the meridian thus determined by a tack driven in a peg set firmly in the ground, 5 chs. N.
- At 9 hrs. 0 m., a.m., l.m.t., we set off 36°13½'N. on the lat. arcs; 15°2''N. on the decl. arcs; and determine a meridian with each solar, which we find to agree with the true meridian.
- At apparent noon, with the lat. arcs unchanged, we observe the sun on the meridian with each solar. The resulting readings of the decl. arcs are 14°59½ N., which agree with the computed decl. of the sun.
- At 3 hrs. 0 m., p.m., l.m.t., with the lat. arcs unchanged, we set off 14°57½ N. on the decl. arcs and determine a meridian with each solar, which we find to agree with the true meridian.
- As all of the solar observations during the usual hours of solar work come within 1.30" of the true meridian, we conclude that the adjustments of the instruments are satisfactory.
- Unless otherwise specified, all measurements are made with a Lufkin steel tape, 5 chs. in length, compared with a Lufkin standard steel tape and found correct. The measurements are made on the slope, the vertical angles determined, and the slope measurements properly reduced to true horizontal distances.

Field Test of Instrument No. 10125.

- December 11, 1921. I examine the adjustments of the instrument and correct all errors; then, to test the solar apparatus, by comparing its indications, resulting from observations made during a.m. and p.m. hours with a meridian established by Polaris observations, proceed as follows:
- At our camp near the \(\frac{1}{4}\) sec. cor. of secs. 15 and 22, T. 32 N., R. 9 W., G. and S. R. B. and M., Arizona, lat. 36°10'N., long. 113°15'W., using the meridian determined November 20, 1921, as described in BOOK "L".

- I set off 36°10'N on the lat. arc; 22°5だら. on the decl. arc; and determine a meridian with the solar, which I find agrees with the true meridian.
- At apparent noon, with the lat. arc unchanged, I observe the sun on the meridian with the solar. The resulting reading of the decl. arc is 22°59'S., which agrees with the computed decl. of the sun.
- At 3 hrs. 0 m., p.m., l.m.t., with the lat. arc unchanged, I set off 22°59'S. on the decl. arc; and determine a meridian with the solar, which I find to agree with the true meridian.
- As all of the solar observations during the usual hours of solar work come within 1.30" of the true meridian, I conclude that the adjustments of the instrument are satisfactory.
- Unless otherwise specified, all measurements are made with a Lufkin steel tape, 5 chs. in length, compared with a Lufkin standard steel tape and found correct. The measurements are made on the slope, the vertical angles determined and the slope measurements properly reduced to true horizontal distances.

Survey of the 8th Standard Parallel North Through Range 8 West.

```
Chains.
              From the standard cor. of Ts. 33 N., Rs. 8 and 9 W., which is an iron post, described in Book "B", East on the S. bdy. of sec. 31.
               Over mountainous land, through heavy timber and scatter-
                   ing undergrowth.
              Asc. 405 ft. Cliff, 50 ft. high, brs. N. and S. Continue ascent. Top of ledge, brs. NW. and SE. Thence over level land. The closing cor. of Ts. 32 N., Rs. 8 and 9 W., which is
   5.00
 16.55
17.91
              an iron post, described in Book "K".

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard 1. sec. cor., marked on brass cap

SC
 40.00
                                                         1917
                    From which
                            A pinyon, 8 ins. diam., brs. N.
                            137 lks dist., marked $\frac{1}{2}$31 SCBT.

A pinyon, 8 ins. diam., brs. N. W.,
86 lks. dist., marked $\frac{1}{4}$31 SCBT.
              Desc. 45 ft.
              Head of draw, course NE. Asc. 25 ft.
 51.00
 55.90
57.91
              Desc. 20 ft.
              (40.00 chs. from the closing cor. of Ts. 32 N., Rs. 8 and 9 W.) Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \(\frac{1}{4}\) sec. cor. of sec. 6, T. 32 N., R. 8 W., marked on brass cap
                                                         <u>∓</u>8 6
                                                         1917
                    From which
                            A pinyon, 6 ins. diam., brs. S.54½°W., 128 lks. dist., marked ½S6 BT.
              , marked ±86 BT 17 lks. dist., marked ±86 BT. Continue descent, 70 ft.
Rim, brs. E. and SW. Continue descent.
Asc. 120 ft.
Set an iron
                            A cedar, 16 ins. diam., brs. S.40°E.,
 66.30
72.30
80.00
               Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the
                    ground, in a mound of stone, for standard cor. of
                    secs. 31 and 32, marked on brass cap
                                                   T33N R8W
$31 832
                                                         1917
                    From which
                            A pinyon, 4 ins. diama, brs. N.76°E.
               41 lks. dist., marked T33N R8W S32 SC BT.
A pinyon, 7 ins. diam., brs. N.54°W.,
126 lks. dist., marked T33N R8W S31 SC BT.
Land, mountainous, rolling and level.
               Soil, rocky, 3rd and 4th rates. Timber, cedar and pinyon.
               Undergrowth sagebrush.
               East on the S. bdy. of sec.32. Over level land, through scattering timber and under-
```

growth.

Rim, brs. W. and NE. Desc. 60 ft. (80.00 chs. from the closing cor. of Ts. 32 N., Rs. 8 and 9 W.) Set an iron post, 3 ft. long, 2 ins diam., on ledge rock, in a mound of stone, for closing cor. of

13.50 17.91

Survey of the 8th Standard Parallel North Through Range 8 West.

```
secs. 5 and 6, T. 32 N., R. 8 W. marked on brass cap
                                      T33N R8W
                                       S OS
                                      T32N R8W
                                          CC
                                          1917
               From which
                    A pinyon, 8 ins. diam., brs. S.4°W., 233 lks. dist., marked T32N R8W S6 CC BT.
          No other trees within limits. Raise a mound of stone,
              2 ft. base, 1\frac{1}{2} ft. high, at foot of ledge, 10 ft. S.
               of cor.
          Continue descent, 625 ft.

Leave scattering timber, brs. NE. and SW.

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
25.00
40.00
              ground, in a mound of stone, for standard \frac{1}{4} sec. cor.
                marked on brass cap
                                      1917
              And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, \frac{1}{1}.
              of cor.
          Continue descent, 115 ft.

(40.00 chs. from the closing cor. of secs. 5 and 6,
T. 32 N., R. 8 W.) Set an iron post, 3 ft. long, l in.
diam., 24 ins. in the ground, in a mound of stone, for
a sec. cor. of sec. 5, T. 32 N., R. 8 W., marked on
57.91
              brass cap
                                          表
1917
              And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
              S. of cor.
          Thence over level land.
67.50
75.00
80.00
          Wash, course SE. Asc. 55 ft.
          Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for standard cor. of secs. 32 and 33,
              marked on brass cap
                                     T33N | R8W
S32 | S33
                                          1917
              And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high. N.
              of cor.
          Land, mountainous, rolling and level.
          Soil, rocky, 4th rate.
          Timber, pinyon and cedar.
          Undergrowth, sagebrush.
          East on the S. bdy. of sec. 33.
          Over mountainous land, through scattering undergrowth.
          Desc.
                                   Asc. 140 ft.
```

3.00 Wash, course SW.

12.50 Wash, course SW. Continue ascent.

Wash, course S. Continue ascent. (80.00 chs. from the closing cor. of secs. 5 and 6, T. 32 N., R. 8 W.) Set an iron post, 3 ft. long, 2 Survey of the 8th Standard Parallel North Through Range 8 West.

Chains. ins. diam., 27 ins. in the ground, for closing cor. of secs. 4 and 5, T. 32 N., R. 8 W., marked on brass cap T33N R8W \$33 518 4 S 5 S 4 T32N R8W C C 1917 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, \$. of cor. Asc. 125 ft. 27.00 Spur, slopes S. Desc. 480 ft. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for standard 1 sec. cor., marked on brass cap **₹833** 1917 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, I. of cor. Continue descent, 110 ft. Wash, course SE. Continue descent, 35 ft.

Center of wash, 1 ch. wide, 10 ft. deep, course SE.

Continue descent, 90 ft.

(40.00 chs. from the closing cor. of secs. 4, and 5,

T32N R8W) Set an iron post, 3 ft. long, 1 in. diam.,

26 ins. in the ground, for 4 sec. cor. of sec. 4,

T. 32 N., R. 8 W., marked on brass cap 42.90 51.00 57.91 급**S 4** 1917 And raise a mound of stone, 2 ft. base, $l_2^{\frac{1}{2}}$ ft. high, S. of cor. Continue descent. 62.50 Wash, 20 lks. wide, 10 ft. deep, course S. continue descent, 110 ft. Wash, course SE. Continue descent.
Set an iron post, 3 ft. long, 2 ins. diam. 12 ins. in the ground, in a mound of stone, for standard cor. of secs.
33 and 34, marked on brass cap 77.50 80.00 S C T33N R8W S33 S34: 1917 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Land, mountainous. Soil, 4th rate. No timber. Undergrowth, sagebrush.and Fair bunch grass. East on S. bdy. of sec. 34. Over mountainous-land, through scattering undergrowth. Desc. 120 ft. (80.00 chs. from the closing cor. of secs. 4 and 5,
T. 32 N., R. 8 W.) Set an iron post, 3 ft. long, 2 ins.
diam., 30 ins. in the ground, for closing cor. of secs.
3 and 4, T. 32 N., R. 8 W., marked on brass cap 17.91

Survey of the 8th Standard Parallel North Through Range 8 West.

```
Chains.
                                           T33N R8W
                                             $34
$ 4 | $ 3
                                           T32N R8W
                                                C C
                                                1917
                 And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
            Continue descent.
            Wash, course S. Asc. 85 ft. Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the
 24.00
 40.00
                 ground, in a mound of stone, for standard 4 sec.cor.,
                 marked on brass cap
                                                 SC
                                               ₹S34
                                                1917
                 And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
            N. of cor. Asc. 170 ft.
 51.60
            Wash, course S. Continue ascent.
            (40.00 chs. from the closing cor. of secs. 3 and 4, T. 32 N., R. 8 W.) Set an iron post, 3 ft. long, l in. diam., 24 ins. in the ground, in a mound of stone, for \( \frac{1}{4} \) sec. cor. of sec. 3, T. 32 N., R. 8 W., marked
 57.91
                 on brass cap
            Dig pits, 24 X 18 A 12 ins., crosswise on each line,
E. and W. of post. 3 ft. dist.
Continue ascent, 170 ft.
Spur, slopes S. Thence along S. slope.
 68.00
 72.15
80.00
           Desc. 75 ft:
           Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for standard cor. of secs. 34 and 35, marked
                 on brass cap
                                           733N R8W
                                            S34 | S35
                                               1917
                And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, N.
                 of cor.
            Land, mountainous.
            Soil, rocky, 4th rate.
            No timber.
            Undergrowth, sagebrush, and Spanish bayonet.
            East on S. bdy. of sec. 35.
            Over mountainous land, through scattering undergrowth.
            Desc.
           Wash, course SW. Asc. 100 ft. Spur, slopes S. Cliff, brs. N. and S. Desc. 610 ft. Wash, 75 lks. wide, 15 ft. deep, course SE. (80.00 chs. from the closing cor. of secs. 3 and 4,
  0.10
  6.65
 17.00
 17.91
                T. 32 N., R. 8 W.) The true point for closing cor. of secs. 2 and 3, T. 32 N., R. 8 W., falls in wash, 15 lks. wide, course SE., where it cannot be securely
            established. Therefore at a point 0.20 chs. Scool.E. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
               ground, in a mound of stone, for witness cor. to closing
                 cor. of secs. 2 and 3, T. 32 N., R. 8 W., marked on
```

`

Survey of the 8th Standard Parallel North Through Range 8 West.

	8th	standard Parallel North Through Range 8 West.
	Chains.	hmogg con
		T33N R8W S35 S 3 S 2 T32N R8W WC CC 1917
	24.60 28.00 33.50 37.70 40.00	And raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Continue descent, 115 ft. Wash, 50 lks. wide, 10 ft. deep, course SE. Continue descent, 55 ft. Center of wash, 100 lks. wide, 30 ft. deep, course SE. Continue descent, 130 ft. Wash, 30 ft. deep, course SE. Asc. 75 ft. Desc. 25 ft. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for standard ½ sec. cor., marked on brass cap
		1917
	44.25 51.00 57.91	And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Continue descent, 65 ft. Wash, course SE. Asc. 65 ft. Spur, slopes S. Desc. 110 ft. (40.00 chs. from the true point for closing cor. of secs. 2 and 3, T. 32 N., R. 8 W.) Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground, 14 ins. in a mound of stone, for ½ sec. cor. of sec. 2, T. 32 N., R. 8 W., marked on brass cap
	. •	1917
	69.80 74.50 76.25 80.00	And raise a mound of stone, 2 ft. base, 1½ ft. high, s. of cor. Continue descent, 105 ft. Wash, course S. Asc. 45 ft. Desc. 25 ft. Wash, course S. Asc. Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for standard cor. of secs. 35 and 36, marked on brass cap S C T33N R8W S35 S36
		And raise a mound of stone, 2 ft. base, 1 ft. high, N. of cor. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, black brush and Spanish bayonet.
•	10.00 17.40 17.91	East on S. bdy. of sec. 36. Over mountainous land, through scattering undergrowth. Asc. 55 ft. Desc. Wash, course S. Asc. (80.00 chs. from the true point for closing cor. of secs.

Survey of the 8th Standard Parallel North Through Range 8 West.

```
2 and 3, T. 32 N., R. 8 W.) Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, in a mound of stone, for closing cor. of secs. 1 and 2, T. 32 N.
                R. 8 W., marked on brass cap
                                           733N R8W
                                                s36
                                             S 2 S 1
                                           T32N R8W
                                                C C
1917
                And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                S. of cor.
           Continue ascent, 70 ft.

Spur, slopes.S. Desc. 45 ft.

Asc. 30 ft.

Desc. 35 ft.

Wash, course SW. Asc.
24.30
29.85
35.95
38.00
           Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, 16 ins. in a mound of stone, for standard \( \frac{1}{4} \) sec.
40.00
                cor., marked on brass cap
                                                <del>1</del>836
                                                1917
                And raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
                N. of cor.
           Continue ascent, 35 ft. Spur, slopes S. Desc. 10 ft.
45.20
54.80
57.91
                                      Thence over rolling land.
           Wash, course S.
           (40.00 chs. from the closing cor. of secs. 1 and 2,
T. 32 N., R. 8 W.) Set an iron post, 3 ft. long, 1
in. diam., 24 ins. in the ground, in a mound of stone,
for \( \frac{1}{4} \) sec. cor. of sec. 1, T. 32 N., R. 8 W., marked on
                brass cap
                                                ⅓S 1
1917
                And raise a mound of stone. 2 ft. base, 1 ft. high.
                S. of cor.
           Desc. 15 ft.
Draw, course SW. Asc. 80 ft.
70.00
 1.00
                r, slopes S. Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, in a mound of stone, for stan-
80.00
           Spur
                dard cor. of Ts. 33 N., Rs. 7 and 8 W., marked on brass
                                          R 8W R7W
                                            $36 | $31
                                                1917
                And raise a mound of stone, 4 ft. base, 3 ft. high, N.
                of cor.
           Land, mountainous and rolling.
           Soil, rocky, 4th rate. No timber.
           Undergrowth, sagebrush and Spanish bayonet.
```

Survey of the
8th Standard Parallel North Through Part of Range 7 West.
Chains.

From the standard cor. of Ts. 33 N., Rs. 7 and 8 W.,
which is an iron post, hereinbefore described,
East on S. bdy. sec. 31.
Over mountainous land, through scattering undergrowth.
Desc. 65 ft.

3.00
6.50
Besc. 40 ft.
Gulch, course St. Asc. 30 ft.
Desc. 40 ft.
Gulch, course S. Asc. 80 ft.
11.40
11.40
17.91
(80.00 chs. from the closing cor. of secs. 1 and 2,
T. 32 N., R. 8 W.) Set an iron post, 3 ft. long, 3
ins. diam., 24 ins. in the ground, for closing cor. of
Ts. 32 N., Rs. 7 and 8 W., marked on brass cap

SIS 6 R8W R7W T32M C C

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

At a point 12.25 chs. South of this cor., impassable rim of Colorado Canyon, brs. E. and W.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, sagebrush.

Survey of Part of the Subdivision of T. 32 N., R. 8 W. chains. From the closing cor. of secs. 1 and 2, on the N. bdy. of Tp., (8th Standard Parallel North), which is an iron post, hereinbefore described, S.0°l'E. bet. secs. 1 and 2. Over broken land, through scattering undergrowth. 20.00 Desc. 240 ft. Rim of canyon of Colorado River, brs. E. and W. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap S 2 S 1 1917 And raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor. I therefore Impossible to continue line from this cor. discontinue the survey of this range of sections. Land, broken and mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, sagebrush. From the true point for closing cor. of secs. 2 and 3, on the N. bdy. of Tp. 32(8th Standard Parallel North), witnessed at 0.20 chs. South as hereinbefore described, S.O.1'E. bet. secs. 2 and 3. Over mountainous land, through scattering undergrowth. Asc. 165 ft. The witness cor. to closing cor. of secs. 2 and 3, here-(0.20)inbefore described. Cliff, brs. E. and W. Desc. 410 ft. Continue ascent. 4.00 14.60 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.00

ground, for \frac{1}{4} sec. cor., marked on brass cap

of cor.

80.00

Continue descent, 140 ft.
Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the ground, in a mound of stone, for cor. of secs. 2, 3, 10 and 11, marked on brass cap

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

And raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor. Land, mountainous. Soil, rocky, 4th rate.

Timber, none.

Undergrowth, sagebrush. Good grazing.

East on a true line, bet. secs. 2 and 11. Over mountainous land, through scattering undergrowth. Desc. 190 ft.

Survey of part of the

	Survey of part of the Subdivision of D. 32 N., R. 8 W.
Chains.	
40.00	Set an iron post, 3 ft. long, line.diam26 instein the ground, for 4 sec. cor., marked on brass cap
	1 S 2 4 S11
	1917
	And raise ammound of stone, 2 ft. base, $l_{2}^{\frac{1}{2}}$ ft. high, E. of cor.
48.00	Rim of Colorado River Canyon, brs. N. and S. Impossible
	to project line beyond this point. Land. mountainous.
	Soil, rocky, 4th rate.
	No timber.
	Undergrowth, sagebrush.
	The impassable rim of the Colorado River Canyon prevents
	the establishment of the 1 sec. cor. of secs. 10 and 11
	or a witness cor. thereto within 10 chs. of the true point for cor. I therefore discontinue the survey of
	this range of sections.
	From the closing cor. of secs. 3 and 4, on the N. bdy. of Tp., (8th Standard Parallel North, which is an iron
	post, hereinbefore described.
	S.0°2'E. bet. secs. 3 and 4.
	Over rolling land, through scattering undergrowth. Desc. 160 ft.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
	ground, for \(\frac{1}{4} \) sec. cor., marked on brass cap
	1
	$s \stackrel{\frac{1}{4}}{s} s 3$
	1917
	1911
	And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, w.
	of cor. Continuedescent, 125 ft.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
	ground, for cor. of secs. 3, 4, 9 and 10, marked on
	brass cap
•	S 4 S 3 S 9 S10
	\$ 9\\$10 1917
	→ J→1
	And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, w.
	of cor. Land rolling.
	Soil, rocky, 4th rate.
	No timber. Undergrowth, sagebrush.
	United growth, Sagebrush.
	East on a random line, bet. secs. 3 and 10.
40.00	Set temp. 1 sec. cor.
80.20	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 2, 3, 10 and 11.
	Thence
	N.89°56 %. on a true line, bet. secs. 3 and 10. Over rolling land, through scattering undergrowth.
	Asc. 50 ft.
36.00	Desc. 65 ft.

Survey of Part of the Subdivision of T. 32 N., R. 8 W.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.10 ground, for \frac{1}{4} sec. cor., marked on brass cap 1 S 3 4 S10 1917 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Asc. 130 ft. 80.20 The cor. of secs. 3, 4, 9 and 10. Land, rolling. Soil, rocky, 4th rate. No timber. Undergrowth, sagebrush. S.0°2'E. bet. secs. 9 and 10. Over rolling land, through scattering undergrowth. Desc. 10 ft. 7.00 14.80 19.80 Asc. 60 ft. Desc. 35 ft. Asc. 15 ft. 21.25 Desc. 130 ft. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap 40.00 s 9 s10 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, \forall . of cor. Impassable rim of Colorado River Canyon, brs. E. and W. 50.00 As it is impossible to continue line beyond this point I discontinue the survey of this range of sections. Land, rolling. Soil, rocky, 4th rate. No timber. Undergrowth, sagebrush. Fair grazing. From the closing cor. of secs. 4 and 5, on the N. bdy. of Tp., (8th Standard Parallel North), which is an iron post, hereinbefore described, S.O°3'E. bet. secs. 4 and 5. Over mountainous land, through scattering undergrowth. Desc. 330 ft.
Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the 40.00 ground, in a mound of stone, for ½ sec. cor., marked on brass cap S 5 S. 4 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Continue descent, 160 ft., 43.60 Draw, course E? 54.50 Asc. 295 ft. Draw, course E. Ridge, brs. NE. and SW. Desc. 215 ft.
Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked on 69.00 80.00

Survey of Part of the Subdivision of T. 32 N. R. 8 W

		Subdivision of T. 32 N., R. 8 W.
	Chains.	brass cap T32N R8W S 5 S 4 S 8 S 9 1917
		And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, sagebrush.
	40.00 79.90	East on a random line, bet. secs. 4 and 9. Set temp. ½ sec. cor. Intersect N. and S. line, 19 lks. S. of the cor. of secs. 3, 4, 9 and 10. Thence S.89°52'W. on a true line, bet. secs. 4 and 9.
	39 • 95	Over mountainous land, through scattering undergrowth. Asc. 235 ft. Set an iron post, 3 ft. long, l in. diam., 26 ins. in the ground, for 4 sec. cor., marked on brass cap
•	72.40 7 9.90	And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Continue ascent, 495 ft. Desc. 30 ft. The cor. of secs. 4, 5, 8 and 9. Land, mountainous. Soil, rocky, 4th rate. Timber, none. Undergrowth, sagebrush.
	40.00 68.00 69.50	S.0°3'E. bet. secs. 8 and 9. Over mountainous land, through scattering undergrowth. Desc. 455 ft. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ½ sec. cor., marked on brass cap S 8 S 9 1917 And raise a mound of stone, 2 ft. base, 1½ ft. high, W.of cor. Desc. 340 ft. Enter wash, course S., from NW. Cliffs, 30 ft. high, brs SE. and SW. Leave wash, course
	70.40	S.10°W. Continue descent, 60 ft. Point of spur, slopes W. Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, in a mound of stone, stone, 3 ft. base, with stone marked cross (X) along- side, for witness cor. to cor. of secs. 8, 9, 16 and 17, marked on brass cap

Survey of Part of the BOOK 3625 Subdivision of T.32 N., R. 8 W.

T32N R8W S 8 | S 9 S 17 | S 16 Chains WIC . 1921 And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. The true point for cor. of secs. 8, 9, 16 and 17 is in-80.00 accessible. Land; mountainous. Soil; rocky, 4th. rate. No timber. Undergrowth; quinine brush, greasewood, Spanish bayonet. and cactus. The impassable rim of the Colorado River Canyon prevents the survey of any other portion of this range of sections. From the closing cor. of secs. 5 and 6 on the N. bdy. of the Tp., (8th. Standard Parallel North) which is an iron post hereinbefore described, S.0°3'E., bet. secs. 5 and 6. Over mountainous land, through scattering undergrowth, and timber. Desc. 430 ft. Foot of descent. Over rolling land. 20.00 33.00 40.00 Desc. 180 ft. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4} \) sec. cor. marked on brass cap s 6 | s 5 And raise a mound of stone, 2 ft. base, 1 ft. high W. of cor.
Desc. 100 ft.
Asc. 30 ft.
Spur, slopes E. Desc. 80 ft. 47.50 50.00 .Asc. 46 ft. 56.00 Spur, slopes E. Desc. 220 ft. over S. slope.

Set an iron post, 3 ft. long, 2 ins. in diam., 25 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked 61.00 80.00 on brass cap T32N R8W And raise a mound of stone, 2 ft. base, $1\frac{1}{6}$ ft. high W. of cor. Land; mountainous and rolling. Soil; rocky, 4th. rate. Timber; pinyon and cedar. Undergrowth; sagebrush. East, on a random line bet. secs. 5 and 8. Set temp. \(\frac{1}{4}\) sec. cor.

Intersect N. and S. line 22 lks. N. of the cor. of secs. 40.00 79.98 4, 5, 8 and 9.

N.89°51'W., on a true line bet. secs. 5 and 8.

Survey of Part of the Subdivision of T.32 N.R. 8 W.

	Subdivision of T.32 N.R. 8 W.
Chains	Over mountainous land, through scattering undergrowth. Asc. 50 ft.
3.00 12.50	Asc. 145 ft. Draw, course S. Asc. 90 ft.
39.99	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
75.00	the ground, for 1/4 sec. cor. marked on brass cap
	<u>s 5</u>
	$\frac{1}{4} \frac{\frac{S}{S}}{\frac{S}{S}}$
	1917
	And raise ammound of stone, 2 ft. base, 12 ft. high N.
	of cor.
	Desc. 130 ft.
7 9 . 98	The cor. of secs. 5, 6, 7 and 8.
	Land; mountainous.
	Soil; rocky, 4th. rate. No timber.
	Undergrowth; sagebrush.
	West, on a random line bet. secs. 6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec. cer.
80.04	Fall 5 lks. S. of the cor. of secs. 1, 6, 7 and 12, on
,	the west bdy. of the Tp., which is an iron post, de-
	scribed in Book "K".
,	Thence
	5.89°58'E., on a true line bet. secs. 6 and 7.
	Over mountainous land, through scattering undergrowth.
	Desc.
1.05	Asc. 35 ft.
0.00	
28.55 35.00	Asc. 55 ft. Desc. 10 ft.
40.04	Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in
, , , , , , , , , , , , , , , , , , ,	the ground for 1/2 sec. cor. marked on brass cap
	$\frac{1}{4}$ $\frac{s}{s}$ $\frac{6}{7}$
	1917
,	And raise a mound of stone, 2 ft. base, $l\frac{1}{2}$ ft. high
	N. of cor.
50.70	Asc. 25 ft. Desc. 40.ft.
55.00	Thence over rolling land.
80.04	The cor. of secs. 5, 6, 7 and 8.
·	Land; rolling and mountainous.
	Soil; rocky, 4th. rate.
!	Timber; none.
	Undergrowth; sagebrush.
	0.007 tn hat man 7 and 0
	S.0°3'E., bet. secs. 7 and 8. Over rolling land, through scattering undergrowth.
	Desc. 260 ft. over gradual S. slope.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in
	the ground for 1/4 sec. cor. marked on brass cap
	1
	4
	s 7 s 8
	1917
	And raise a mound of stone, 2 ft. base, $l^{\frac{1}{2}}$ ft. high
	W. of cor.

```
Chains
           Head of wash, course SE.

Set an iron post, 3 ft. long, 2 ins. in diam., 3 ins. in the ground to bed rock, supported in a mound of stone
 77.70
80,00
                                                                               3 ins. in
              5 ft. base, 2 ft. high, with stone marked cross (X) at
              base of post, for cor. of secs. 7, 8, 17 and 18, marked
             on brass cap
                                                  .T32N R8W
                                                  s 7 | s 8
                                                       1921
           Land; rolling.
Soil; rocky, 4th. rate.
           Timber; none.
           Undergrowth; greasewood, sagebrush, cactus, and Spanish
              bayonet.
           S.89°51'E., on a random line bet, secs. 8 and 17. Impossible to continue chaining on line from this point.
 24.92
              Run traverse as follows:
                                              5.00 chs.
                               N.40°E.
                               S.53°E.
S.47°E.
                                              3.30
2.70
                                                .Ò2
                                                             to a point on random
                                South
              line, 32.74 chs. S.89°51'E., of the cor. of secs. 7, 8, 17 and 18.
           Thence S.89°51'E., on a random line, bet. secs. 8 and 17,
 32.74
              continuing measurement.
           Set temp. ½ sec. cor.
Impossible to continue on random line from this point,
 40.00
 61.33
           Offset N.0°3'W., 10.00 chs., and continue
           S.89.51 E., on offset to random line, in sec. 8.
Intersect N. and S. line, 12 lks. N. of the witness cor.
to cor. of secs. 8, 9, 16 and 17.
 80.06
           The true course and distance of the line between sees.
              8 and 17 are therefore S.89.57 W., 80.06 chs.
           From the true point for cor. of secs. 8, 9, 16 and 17,
              (inaccessible)
           5.89°57 W. on a true line, bet. secs. 8 and 17, distance
              by offset as hereinbefore described.
           Over mountainous land, through scattering undergrowth.
 18.05
18.73
           Rim of canyon, 1000 ft. high, bears NE. and SW. Traverse point. Thence by chaining as hereinbefore de-
              scribed. Asc. 95 ft.
 26.75
           Thence along S. slope.
           Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported in a mound of stone,
 40.03
              5 ft. base, 2\frac{1}{2} ft. high, with stone marked cross (X) at foot of post, for \frac{1}{4} sec. cor., marked on brass cap
                                                   $ 17
                                                 1921
 47.32
           Thence by traverse along rim.
           The approximate topography on line is as follows:
Rim of cliffs, 300 ft. high, bears SE. and NW.
Rim of cliffs, 300 ft. high, bears NE. and SW.
Traverse point. Thence by chaining along S. slope about
 47.55
54.95
55.14
             · 2 chs. N. of canyon rim.
           Wash, 30 lks. wide, 20 ft. deep, c
The cor. of secs. 7, 8, 17 and 18.
Land; rolling and mountainous.
 76.85
80.06
                                                           course SE. Asc. 45 ft.
           Soil; rocky, 4th. rate.
           No timber.
           Undergrowth; quinine brush, greasewood, Spanish bayonet,
```

cactus and sagebrush,

Survey of Part of the Subdivision of T. 32 N., R. 8 W.

	Subdivision of T. 32 N., R. 8 W.
Chains	N.89.58.W., on a random line bet. secs. 7 and 18.
40.00	Fall 7 lks. N. of the cor. of secs. 7, 12, 13 and 18, on
	the W. bdy. of Tp., which is an iron post, described in Book "K". Thence
	N.89°59'E., on a true line bet. secs. 7 and 18. Over broken lava flow, through scattering undergrowth.
11.20 37.50	Draw, 20 lks. wide, 8 ft. deep, course S. Draw, 10 lks. wide, 5 ft. deep, course S.
40.21	Set an iron post, 3 ft. long, 1 in. in diam. A ins. in
-	the ground to bed rock, supported in a mound of stone, 5 ft. base, 2 ft. high, with stone marked cross (X)
	at foot of post, for \(\frac{1}{4}\) sec. cor. marked on brass cap
	\$\frac{1}{4} \frac{\text{S}}{\text{S}} \frac{18}{1921}
	1921
	And raise a mound of stone, 4 ft. base, 3 ft. high N. of cor.
55.00 .57.50	Leave lava flow, bears NE. and S. Enter sandstone. Wash, 10 lks. wide, 5 ft. deep, course SW.
72.00	Spur, slopes S. Desc. 40 ft.
00.21	The cor. of secs. 7, 8, 17 and 18.
	Land; rolling. Soil; rocky, 4th. rate.
	Timber; none. Undergrowth; greasewood, sagebrush, Spanish bayonet, and
	cactus.
*	
	S.0°3'E., bet. secs. 17 and 18. Over rolling land, through scattering timber and undergrowth.
20.00	Asc. 50 ft
28.00	Desc. 30 ft. Head of wash, 20 lks. wide, course E. Asc. 100 ft.
40.00	Mark a cross (X) on surface rock, and over same set an iron post, 3 ft. long, 1 in. in diam., supported in a
	mound of stone, 6 ft. base, 3 ft. high, for \(\frac{1}{4} \) sec. cor. marked on brass cap
	1/4
*	s · 18 - s 17.
_	1921
	From which A pinyon, 8 ins. in diam., bears N.112°E.
	202 lks. dist., marked ½ S 17 B T
7	A cedar, 14 ins. in diam., bears N.45 w., 172 lks. dist., marked 4.8 18 B T
50.00	Desc.
50.00 62.20	Wash, 10 lks. wide, course E. Rim rock, 200 ft. high, bears N.10°E., and S.35°W. Im-
	practicable to continue survey beyond this point. Land: rolling.
	Soil; rocky, Ath. rate. Timber: cedar and pinyon.
	Undergrowth; dogwood, greasewood, quinine brush, mescal, Spanish bayonet, cactus, and sagebrushh
	Since the cor. of secs. 17, 18, 19 and 20 can not be established at the true point for cor., or a witness cor.
1	A ANTIBURY OF SHIP ATTA POTTE TOT COL. " OF S MIPHESS COL.

ince the cor. of secs. 17, 18, 19 and 20 can not be established at the true point for cor., or a witness cor. thereto within the allowable distance of 10.00 chs. I survey the west portion of the line bet. secs. 18 and

69

Chains

19 as follows:

From the cor. of secs. 13, 18, 19 and 24, on the W. bdy. of Tp., which is an iron post, described in Book "K", N.89°59 E., on a true line bet. secs. 18 and 19.

Over mountainous land, through scattering timber and undergrowth.

On account of precipitous cliffs, it is impossible to chain. Therefore proceed to point on line in advance from which I measure a base S.Ool'E., 10.00 chs. dist. From the south end of base, a flag on the cor. of secs. 13, 18, 19 and 24, bears N.78-21 W.

The three angles of the triangle are therefore 78°20', 11°40' and 90°, the sum of which is 180°

The distance triangulated = tan.78°20' X 10.00 = 4.84300 X 10.00 = 48.43 chs. Distance by return measure = .28 chs. 48.43 - .28 = 48.15 chs.

The approximate topography is as follows:

3.00 15.00 Gliff, 200 ft. high, bears N. and S.

35.00

40.28 47.78 48.15

Wash, course S.

Cliff, 200 ft. high, bears N. and S.

The true point for \(\frac{1}{4} \) sec. cor. is inaccessible.

Rim of cliff, bears N. and S.

Set an iron post, 3 ft. long, 1 in. in diam. on ledge rock, in a mound of stone, 5 ft. base, 3 ft. high, with cross (X) marked on abuttung ledge, near base, for witness cor to the \(\frac{1}{2} \) sec. cor. marked on brass cap witness cor. to the $\frac{1}{4}$ sec. cor., marked on brass cap

Thence N.89°59 'E., on a true line, distance by chaining. 48.43 Triangulation point.

Asc. 230 ft.

Rim rock, 20 ft. high, bears N. and S. Continue ascent. Rim rock, 200 ft. high, bears N.35°E., and S. Impossible to continue line farther, because of cliffs, 1500 ft. 54.20 65.20 high.

Land; mountainous.

Soil; rocky, 4th. rate.

Timber; cedar.

Undergrowth; quinine brush, cactus, Spanish bayonet.

Boundaries of That Part of T. 32 N., R. 8 W., Surveyed under Group 72.

Latitudes, departures and closing errors.

		,					-	
Line de	esignated.	True bearing	Dist.	Lati	Latitudes.		Departures.	
				N.	3.	Ε.	₩.	
				chs.	chs.	chs.	chs.	
14		S.O°l'E.	80.00		80.00	.02		
		N.89°56 W.	.80.20	09		3 11 1	80.20	
Supdiv	isional	S.89°52'W.	79 .9 0		.19	*	79.90	
Boun		S.0° 3'E.	80.00		80.00	.07	10.00	
		s.89°57'W.	80.06		.07	• • •	80.06	
		s.89.59 w.	80.21		.02	,	80.21	
		10.00 Jy (10			•02		00.21	
West B	undary	North =	360.00	160.00	•		5	
	J 422 4 5	1102 011	200.00	200.00				
North	Boundary:	East	320.00			320.00		
	td.Par.)							
					1		 	
Conver	rency		3.00		, i	09		
0.000	5 J	landa a transfer a transfer at the contract of	'			•09		
Totals	· · · · · · · · · · · · · · · · · · ·	•	for the	160.09	160.28	320.18	320-37	
				,	160.09		320.18	
Error	in latitud	e		· , ·	0.19		12	
	in departu					l 	0.19	
								

71

The continued satisfactory adjustment of the solar transits during the survey of this township is indicated from field tests as described in Books "D" and "M".

GENERAL DESCRIPTION.

The portion of this township surveyed at this time consists of mountainous land, draining southward into the Colorado River. The soil, of rocky 4th rate quality supports a scattering growth of sagebrush, greasewood, Spanish bayonet and cactus undergrowth, with occasional cedar or pinyon tree. There are no settlers, nor are there any roads in the township. The nearly perpendicular rim of the Colorado River Canyon prevents the survey of this township in its entirety. No trace of mineral was noted.

1-00K* 8625

4-680

FIELD ASSISTANTS. to Dupree R. Aver<u>ill, U.S. Surveyor</u>

	,
NAMES.	CAPACITY.
Clifton Hildebrand	First Chainman.
Rexford Perkins	Second Chainman.
Edgar Biebe	Flagman.
Alma E. Flanigan	Cornerman.
Joseph Hastings	Axman.
Walter Thomas	First Chainman.
Hale Pierce	Second Chainman.
George M. Lucker	Flagman.
Lowell McAllister	Cornerman.
, seen ka saja ka sa ka ka e	

6-276

BOOK 3620
I, Dupree R. Averill , U. S. Surveyor, hereby certify upon honor that, in pursuance
of special instructions received from the U.S. Surveyor General, for Group 72, Arizona
bearing date of the 12 th. day of October, 1916, 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 8th. Standard Parallel North, in Range & West
and in Range 8 West 7 and the
Subdivision lines lofon of I. 2 II. R. A. I.
Township 32 North , Range 8 West
of the Gila and Salt Riv
Base and Meridian, in the State of Arizona, which are represented in
and by diagram on page I hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of
said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the U.S. Surveyor General, for Group 72, Arizona
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
such survey.
Phoenie anona Digar Caverill U. S. Surveyor.
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix, Arizona, May 15, 1924.
The foregoing field notes of the survey of
The 8th. Standard Parallel North, through R. 8 W., and
through Part of R. 7 W., and
Part of the Subdivision of T. 32 N., R. 8 W. of the
Gila and Salt River Base and Meridian in the
State of Arizona
executed byDupree R. Averill, U.S.Surveyor
under his special instructions dated October 12, 1916 for Group 72 Arizona, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved. Garles W. Donohoc.
U. S. Surveyor General.
I certify that the foregoing transcript of the field notes of the above described surveys in the second survey
, has been correctly copied from the original notes on the thirthes of the

CERTIFICATE OF UNITED STATES SURVEYOR.