Book "D" 4-679

BOOK 3190

531.12.1913

MAN 19 1920

### FIELD NOTES

of the

• ; Stret 	Camp Lowell Abandoned Military Reservation,
RESUR	VEY of Part of the North Boundary of Camp Lowell Abandoned
	Military Reservation; and of
	Part of Subdivision Lines in T. 13 S., R. 16 E.,
	and
SURVE	Y of Part of Subdivision Lines in T. 13 S., R. 16 E.,
	•
* <del>a</del> 	
	······································
	Of the Gila and Salt River Base and Meridian,
In the Sta	te ofarizona,
	EXECUTED BY
	Jahner. Hessa, U. U. Suscerveyoring and
<del></del>	
<b>*</b> **	Arthur W. Brown W.S. Cadastral Engineer
with C	Corrections by Guy P. Harrington, U.S. Gadastral Engineer
•	acity of U.S. Surveyor, under Special Instructions dated
	and September 11, 1919.
	the United States Surveyor General to govern surveys included in Grou
No. 57.	rizona, which were approved by the Commissioner of the General Lan
Office,	ovemper 30, 1915, and Assignment Instructions datedOctober 18, 191
and July	11, 1918.

Corrections on Dec. 15,1919.

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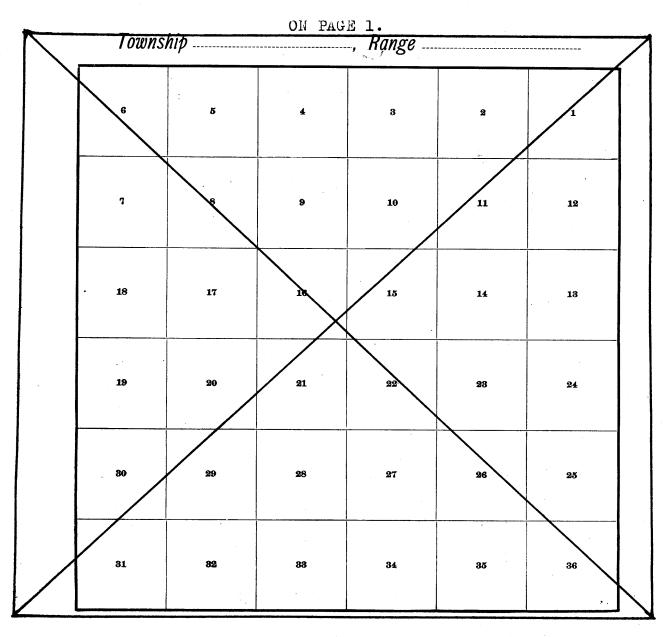
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SEE SPECIAL

### INDEX DIAGRAM.



Book "D"

Group 57 - - - Arizona.

#### INDEX DIAGRAM.

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•	•	M.	LITARY RE	SERVATION	6	/		<b>-</b>
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•	N.	3		ı	
	Subdivision lines sur	veyed under this	s groupnotes	in this	book.
	Subdivision lines res	surveyed under th	nis group "	1 <b>1 11</b>	· 11
	Township lines survey Subdivision lines surv Township lines resurv	veyed under this	groupnotes i	in ¤ook	0.3/89
	Bdy. of Camp Lowell A	bandoned Militar	cy Reservation.		
ramon kininkiitka, es	Part of bdy. of Camp retraced or resurv				∞ k.
	Previously accepted s	surveys.			

\_\_\_\_ Unsurveyed.

Area surveyed as per accepted plats on file.

2

Book "D"

Group 57 - - - Arizona.

BOOK 3190

#### DATE DIAGRAM.

Township 13 South, Range 16 East.

<del>-</del> -	  -  -  -	 						
	        	12-22-15	/2-22-/5		PETP.			 -
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	18 <b>9</b> -07-20-18	7-19-18 K	16 8	12-18-15	6.9.27		<b>*</b>
		19 CAMP	20 LOWELL ABA		7-23825, 18		     	· ·
. <del></del>		30	MILITARY .	RESERVATIO	20 M			
· .		31	32	33	34	35		
								en en en en en en en en en en en en en e

Retracements and resurveys executed on dates shown in red on above diagram by Arthur W. Brown, U. S. Cadastral Engineer.

Retracements, resurveys and surveys executed on dates shown in green on above diagram by John F. Hesse, U. S. Surveyor.

Field correction of West and South bodrs. of sec. 22 on Dec. 15, 1919 by Guy P. Harrington, U.S. Cadastral Engineer.

Chains

Retracements, resurveys and surveys hereinafter described executed by John F. Hesse, U. S. Surveyor, using Lietz light mountain transit No. 6166; and Arthur W. Brown, U. S. Cadastral Engineer, using Young & Sons light mountain transit No. 8486.

For description of instruments, with record of approval and field tests, see Book C.

Field correction made in resurvey of W. and S. bdrs. of Sec. 22, by Guy P. Harrington, U. S. Cadastral Engineer Dec. 15, 1919.

the old 35 mile cor. on the N. bdy. of the Camp Lowell abandoned Military Reservation is a mound of stone witnessed by one bearing tree. I reestablish this cor. as follows:

bet an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, marked on brass cap

T13S R16E **S17** 35M CLAMR

1917

from which

A mesquite, 4 ins. diam., (original bearing tree) bears

S.6½°W., 86 lks. dist., marked USMRXXXV.

A paloverde, 5 ins. diam., bears S.77½°E., 53 lks. dist.,
marked 35m CLAMR BT.

Thence N.89°49'E., on a true line, on the 36th mile of the N. bdy. of the Camp" Lowell Abandoned Military Reservation;

15.88

23:48

31.78

over rolling mountainous land, through dense undergrowth.

4.20 Small rocky wash, in large ravine, course S.

7.00 Kocky wash, 35 lks. wide, 8 ft. deep, course S.

Small wash, course S.

Sandy wash, 6 lks. wide, course S.

Small rocky wash, in large ravine, course S.

Intersect the 35½ mile cor., which is a wooden post, 4 ins.

sq., projecting 18 ins. above a stone mound, marked and witnessed as described by the Surveyor General. 40.05

thence N.89°56'E., on a true line, continuing measurement from the 35 mile cor. kocky gulch, course S.

44.85

69.75

Center of deep gulch, 4 chs. wide, course S.
Intersect the 36 mile cor., which is a mesquite tree 4 ins.
diam., marked USMR XXXVI. As the tree is dead and decaying, I reestablish cor. in the same place as follows:
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, marked on brass cap

T13S R16E **S16** 36M Cĺmi//R

1917

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, mountainous. Soil, rocky; 4th rate. No timber. Undergrowth, mesquite and cactus.

**2**:3.80

Resurvey of Part of the North Boundary of Camp Lowell Abandoned Military Reservation, within

```
T. 13 S., R. 16 E.
  Chain$
         EAST, on a true line, on 37th mile; over mountainous land, through dense undergrowth. Desc.
             100 ft.
         Desc. 140 ft. over steep slope into canyon.
 9.00
18.00
         Ft. of slope. Thence across level sandy bed of canyon,
             course S.
         Small rocky wash on E. side of bottom of canyon. Asc. 270 ft. over W. slope, on E. side of canyon. Top of cliff, bears N. and S. Asc. 180 ft.
19.00
30.00
38.73
          Intersect 36 mile cor., which is a wooden post 3 ins. sq.,
             projecting 24 ins. above a mound of stone, marked and
             witnessed as described by the Surveyor General.
         Continue ascent 40 ft.
40.10
         Summit of ascent, 490 ft. above bottom of canyon.
         Desc. 220 ft. over steep E.slope cut by deep gulches run-
44.70
             ning southerly.
60.90
         Ft. of slope. Thence across bottom of large ravine, course
             S.
         asc. 85 ft. on E. side of ravine, over W. slope.
65.00
         Top of slope. Thence across top of hill.
70.75
74.00
78.68
         Begin descent over E. slope.
Intersect the 37 mile cor., which is a wooden post, badly decayed, in a mound of stone. I reestablish this cor.
             as follows:
         Set an iron post, 3 ft. long, 3 ins. diam., in a mound of stone, marked on brass cap
                                        T13S R16E
                                            S16
                                            37M
                                           CLAMR
                                           1915
             and raise a mound of stone, 3 ft. base, 2 ft. high.
             W. of cor.
         Land, mountainous.
Soil, rocky; 4th rate.
         No timber.
         Undergrowth, cactus and mesquite.
         N.89°26'E., on a true line, on 38th mile,
         70 ft. over 3E. slope. wash, 25 lks. wide, course SW., in bottom of gulch.
             over mountainous land, through dense undergrowth.
 8.20
         Ridge bears NE. and SW. Begin descent. Desc. 90 ft. to Intersect the 37½ mile cor., which is a wooden post 4 ins. sq., firmly set in a mound of stone 3 ft. base, 2 ft.
34·50
40·16
             high, marked and witnessed as described by the Surveyor
             General.
         Land, mountainous.
         Soil, rocky; 4th rate.
         No timber.
         Undergrowth, paloverde, catclaw and cactus.
         RETRACEMENT OF PART OF NORTH BOUNDARY OF CAMP LOWELL ABAN-
             DONED MILITARY RESERVATION, IN T. 13 S., R. 16 E.
         From the 372 mile cor., hereinbefore described; N.89°15'E., on a true line, on E. half of 38th mile,
        over mountainous land, through undergrowth.

Desc. over steep slope of ridge. Desc. 385 ft. to

Bottom of Agua Caliente Canyon. Wash, 80 lks. wide in
```

```
Chains bottom of canyon, course SW. Asc. 610 ft. over steep slope.

41.04 Intersect NF: cor. of Camp Lowell Abandoned Military Reservation, which is a wooden post, 42 ins. sq., firmly set in a mound of stone 3 ft. base, 22 ft. high; mark-
              ed and witnessed as described by the Surveyor General.
         Land, mountainous.
         Soil, rocky; 4th rate.
         No timber.
         Undergrowth, paloverde, catclaw and cactus.
          Retracement of Part of the East Boundary of Camp
Lowell Abandoned Military Reservation, within
T. 13 S., R. 16 E.
The 20 mile cor. on the E. bdy. of reservation is identified
         by a post, properly marked, in a mound of stone. establish cor. as follows:
         Set a quartzite stone, 30 x 14 x 8 ins., in a mound of
         stone marked CLAMR on W., PL on E., and 20M on S. face. Thence N. O. 17' W., on a true line, on 21st mile, along
              E. bdy. of reservation,
 over mountainous land, through undergrowth. Asc. S. slope.
6.90 Top of ridge bears E. and W. Desc. over N. slope.
16.80 Small ravine, course NW. Asc.
 25.40 Bottom of rocky gulch, course W.
                                                         Asc.
 26.87 Intersect old closing cor. of secs. 22 and 27, which is a mound of earth and stone as described by the Sur-
 veyor General.

34.00 Crest of ridge. Begin descent over steep N. slope.
39.97 Intersect the 20 mile cor., which is a wooden post, firmly set in a mound of stone, marked and witnessed
              as described by the Surveyor General.
              Thence N. 0° 20' W., on N. half of 21st mile.
              Continue descent, over steep N. slope.
 7.50 Bottom of rocky gulch, course W., 180 ft. below ridge.
Asc. 610 ft., over steep S. slope.

30.75 Crest of ridge, bears E. and W. Begin descent over steep
N. slope into ravine.
 40.05 Intersect the 21 mile cor., which is a wooden post, firmly
              set in a mound of stone, marked and witnessed as de-
              scribed by the Surveyor General.
          Land, mountainous.
          Soil, rocky; 4th rate.
         No timber.
         Undergrowth, mesquite, catclaw and cactus.
         NORTH, on a true line, on 22nd mile,
    over mountainous land, through undergrowth. Desc.

8 Bottom of gulch, course W., 250 ft. below ridge forming the S. side of same. Asc. 130 ft., over steep S. slope.
         Crest of ridge, bears E. and W.
   5.00
                                                      Desc. 100 ft., over N.
              slope.
 12.00 Bottom of rocky gulch, course W. Asc. 540 ft. over S. slope
 27.90 Crest of spur ridge sloping W. from Agua Caliente Hill
             about 12 miles to east. Begin desc. over N. side of ridge
 39.83 Intersect the 212 mile cor., which is a wooden post, 4 ins.
              sq., firmly set in a mound of stone 3 ft. base, 2\frac{1}{2} ft.
              high, marked and witnessed as described by the Surveyor
              General.
          Thence N. 0° 20' E., on N. half of 22nd mile.
              Continue descent.
    .75 Wash, 20 lks. widc, course NW., 220 ft. below top of
 ridge on S. side of gulch. Asc. 80 ft.
10.90 Spur, slopes W. Desc. 210 ft., over NF. slope.
42.49 Intersect the NE. cor. of reservation, hereinbefore
              described.
         Land, mountainous. Soil, rocky, 4th rate.
         No timber. Undergrowth, scrub oak, cactus and catclaw.
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Resurvey of Part of Subdivision Lines, T.13 S., R. 16 E.

6٠ Chains The old. cor. of. Secs. 22, 23, 26, and 27 consists of a mound of stone and earth. I reestablish cor. as follows: Set a granite stone, 20 x 8 x 6 ins., 15 ins. in the ground, marked with 2 notches on each of E. and S. edges; and raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor. Thence N. 89° 16' W., on a true line, bet. secs. 22 and 27, over mountainous land, through undergrowth. 1.30 Intersect the old closing cor. of secs. 22 and 27 on E. bdy. of Camp Lowell Abandoned Military Reservation; which is a mound of earth and stone. I reestablish closing cor. as follows: Set a granite stone, 18 x 12 x 4 ins., 12 ins. in the ground, marked CC on E. face and CLAMR on W. face; and raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor.

4.17 Rocky wash, on SW. slope of hill; course SW.; joins ravine about A chs. S. of line. Asc. 70 ft., over F. slope.

14.90 Summit of ascent. Desc. 300 ft. 33.90 Ft. of slope. Rocky wash, course SW.; thence over broken S. slope. CORRECTION bý Guy P. Harrington, U. S. Cadastral Engineer as follows: The Hesse reestablished 1 sec. cor. of Secs. 22 and 27, is a stone properly mkd. and witnessed by md. of stone N. of cor. Obliterate mkg. on stone and destroy the This cor. is reported as 41.09 chs. N. 89° 16' W., from reestablished cor. of Secs. 22, 23, 26 and 27, therefore measure S. 89° 16' E., 65 lks. to (Midpoint of N. bdy. of Sec. 27) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for restablished 1 geo. established \( \frac{1}{4} \) sec. cor. of Sec. 27, mkd. on brass cap # S 27 1919 and raise md. of stone 2 ft. base,  $1\frac{1}{2}$  ft. high S. of Thence N. 89° 16' W., 44 lks. to 40.88 (40.00 chs. S. 89° 16' E., from cor. of Secs. 21, 22, 27 and 28) Set an iron post, 3 ft. long, 1 in. in diam., 2 ins. in ground, supported by a mound of stones, for reestablished \frac{1}{4} sec. cor. of Sec. 22, mkd. on brass 1919 and raise a md. of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high N. Thence N. 89° 16' W., 21 1ks. to 41.09 Point where Hesse 1 sec. cor. is obliterated. Continuing from Hesse's record: Top of spur, slopes SW. Desc. 55.90 Bottom of deep gulch. Asc. 700 ft. 73.60 Top of slope, on ridge bearing N. and S. Desc. over W. slope. The old cor. of secs. 21, 22, 27 and 28, which is a mound of earth and stone. Recstablish cor. as follows: Set a granite stone, 24 x 6 x 6 ins., 18 ins. in the 80.88 ground, marked with 5 notches on E. and 2 on S. edges; and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor. Land, mountainous. Soil, rocky, 4th rate. No timber: Undergrowth; catclaw, mesquite and cactus: N. 0° 17' W., on a true line, bet. secs. 21 and 22,

over mountainous land, through undergrowth.

```
Chains
               Asc. over side of ridge.
   1.50 Crest of ridge bears E. and W.
                                                           Desc. 100 ft. over N. slope.
   6.40 Small ravine, course W. Asc. 60 ft.
 10.10 Crest of ridge bearing E. and W.
                                                              Top slopes toward the W.
               Desc. 80 ft., over N. slope.
 19.80 Rocky wash in bottom of gulch, course W.
                                                                         Asc. 75 ft.
 27.70 Top of hill.
 30.10 Desc. 40 ft. over cliffs on N. slope of hill.
          Rocky wash, in small ravine, course W. Asc.over S.slope. CORRECTIONS by Guy P. Harrington, U. S. Cadastral Engineer,
 31.70
               as follows:
 40.55 The Hesse reestablished 2 sec. cor. of Secs. 21 & 22,
               a stone, properly mkd. and witnessed by mound of stone,
               2 ft. base, l\frac{1}{2} ft. high W. of cor. Remove the stone and in same place set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone 3\frac{1}{2} ft. base, 2 ft. high (impracticable to set in ground) for reestablished \frac{1}{4}
               sec. cor. of Sec. 21, mkd. on brass cap.
                                       S 21
                                            1919
               and raise md. of stone, 2 ft. base, 1\frac{1}{2} ft. high, W. of
 Thence N. 0° 17° W., 55 lks. to

41.10 (40.00 chs. S. 0° 17' E: from reestablished cor. of Secs.
15, 16, 21 and 22) Set an iron post, 3 ft. long, 1 in.
              in diam., in a mound of stone, 3 ft. base, 2 ft. high
               (impracticable to set in ground), for reestablished
               sec. cor. of Sec. 22, mkd. on brass cap
                                             TS 22
                                            1919
               and raise a md. of stone, 2 ft. base, la ft. high R.
               of cor.
                       Continuing from Hesse's record:
 48.70 Crest of ridge, 500 ft. above bottom of ravine at 31.70
                                  Desc. 190 ft., over NW. slope.
               chain point.
 57.80 Large ravine, course W.
62.55 Asc. on N. side of ravine.
65.35 Crest of long Spur ridge jutting NW. from hill E. of line.
Desc. 40 ft.
 68.60 Rocky gulch, course .NW.
                                               Asc.
73.00 Spur slopes W. Desc. 170, ft.

81.10 The old cor. of Secs. 15, 16, 21 and 22, which is a wooden post nearly destroyed by decay, lying on a mound of stone and earth. Reestablish cor. as follows:

Set a granite stone, 18 x 10 x 5 ins., 12 ins. in the
               ground, marked with three notches on each of E. and S.
              edges; and raise a mound of stone, 2 ft. hase, 1\frac{1}{2} ft. high, W. of cor.
          Land, mountainous.
          Soil, rocky; 4th rate.
          No timber.
          Undergrowth, cactus and mesquite.
          S. 89° 17' W., on a true line, bet. secs. 16 and 21,
              over mountainous land, through undergrowth. Desc. 190
ft. over NW. slope.

Bottom of ravine, course SW. Asc. 120 ft. over E. slope.

26.00

Crest of hill. Begin descent over steep W. slope.

After diligent search, fail to find old ½ sec. cor. Therefore at this point, (proportionate distance) reestablish cor. as follows: Set a granite stone, 16 x 8 x 6 ins., 11 ins. in the ground, marked ¼ on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Rocky bed of ravine, 430 ft. below top of hill; course SW. Asc. 50 ft.
              ft. over NW. slope.
              SW.
                    Asc. 50 ft.
60.20
         Top of hill.
                             Desc. 130 ft.
73.15 Ft. of slope. Thence over broken land cut by small washes.
79.14 The cor. of secs. 16, 17, 20 and 21, which is a wooden
              post, firmly set in a mound of stone, properly marked
              as described by the Surveyor General.
                                                                        Fail to find
```

bearing trees described as accessories to original cor

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Resurvey of Part of Subdivision Lines of T.
                       Therefore I witness same by raising a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, W. of cor.
Chains
                Land, mountainous.
                Soil, Rocky, 4th .rate.
                No timber.
                Undergrowth, cactus and mesquite.
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                N. 1° 19' W., on a true line, bet. secs. 16 and 17, over mountainous and hilly land, through undergrowth.
    .50 SE. edge of large wash, (Agua Caliente Wash) course SW. 2.00 NW. edge of same.
 6.20 Trail, bears NE. and SW.
  16.10 Wash, 20 lks. wide, very rocky; course SW. Asc. 41.41 The old 2 sec. cor. bet. secs. 16 and 17, which is a wood
                       en post, badly decayed, lying on a small mound of atone. Reestablish cor. as follows:
                Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in
                       the ground, marked on brass cap
                                                              4 S 17 | S 16
                                                                           1915
                       and raise a mound of stone, 2 ft. base, l_2^{\frac{1}{2}} ft. high,
                       W. of cor.
                Land, hilly.
                Soil, rocky; 4th rate.
                No timber.
                Undergrowth, cactus and mesquite.
                                              and the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second contro
    N. 89° 08' W., on a true line, bet. secs. 17 and 20, over nearly level land, through undergrowth.

1.65 Agua Caliente Wash, 200 lks. wide, 6 ft. deep, course SW.
  11.80 Wash, course S.
  20.65 NE. cor. of fence running W. and S. Thence along Fence.
 31.30 Small wash, course S. 38.15 Small wash, 7 lks. wide, course S.
  40.37 The old 4 sec. cor', which is a wooden post firmly set in a mound of stone, marked as described by the Surveyor
                     . General. No trace of bearing trees described as acces
                       sories to original cor. Therefore I witness same by
                        setting a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high, N.
                        of cor.
  48.40 Small wash, course S.
  56.00 Wash, 30 lks. wide, course S.
  64.80 Small wash, 3 lks. wide, course S. 70.15 Small wash, in draw, course S.
  80.64 Intersect the cor. of secs. 17, 18, 19 and 20, which is a wooden post, firmly set in a mound of stone, marked as described by the Surveyor General. Fail to find any
                        trace of bearing trees described as accessories to
                        original cor. Therefore I witness same by raising a
                       mound of stone, 2 ft. base, 12 ft. high, w. of post.
                 Cor. is situated at the cor. of fences running N., S.,
                       E. and W.
                Land; nearly level.
                Soil, sandy, rocky and gravelly; 2nd to 4th rate.
                No timber.
                Undergrowth, paloverde, cactus, catclaw and mesquite.
                 N. 88° 52' W., on a true line, bet. secs. 18 and 19,
                        over nearly level land, through dense undergrowth,
                       along fence.
 10.30 Large sandy wash, 45 lks. wide, course SE.
18.80 Sandy wash, 20 lks. wide, course S.
22.90 Small wash, course S.
27.95 Rocky wash, 12 lks. wide, 3 ft. deep, course S.
  32.25 Small wash, course S. 59.20 Fence runs S. from E. and W. fence. Continue along fence.
  39.30 Road, bears NE. and SW.
  40.23 The old \frac{1}{4} sec. cor., which is a wooden post, firmly set
                       in a mound of stone, marked as described by the Surveyor
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Resurvey of Part of Subdivision Lines of T. 13 S., R. 16 E. Chains General. Fail to find any trace of bearing trees described as accessories to original cor. Therefore I witness same by raising a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of post. Thence N.89°53'W., continuing measurement from the corof secs. 17, 18, 19 and 20. Small rocky wash, course S.
Small sandy wash, course S.
SW. cor. of fence running E. and N.
The reestablished cor. of secs. 13, 18,19 and 24, described 42.22 56.05 60.06 79.29 in Book C. Land, nearly level. Soil, sandy and gravelly; 3rd and 4th rate. Undergrowth, mesquite, cactus and paloverde. N.0°31'W., on a true line, bet. secs. 17 and 18, over nearly level land, through dense undergrowth, along uncompleted fence line. The old z sec. cor., which is a wooden post nearly destroyed 40.15 by decay, in a small mound of stone. Reestablish cor. as follows: Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, marked on brass cap \$18 S17 from which A paloverde, 4 ins. diam., bears N.57½°W., 43 lks. dist., marked ½ S18 BT.

A mesquite, 5 ins. diam., bears N.51½E., 48 lks. dist., marked ½ S17 BT. Land, nearly level. Soil, sandy and gravelly; 2nd to 4th rate. No timber. Undergrowth, mesquite, paloverde and cactus. Survey of Part of Subdivision Lines in T. 13 S., R. 16 E. From the reestablished cor. of secs. 15, 16, 21 and 22, hereinbefore described; MAST, on a true line, bet. secs. 15 and 22, over mountainous land, through undergrowth. Asc. Set a granite stone, 18x6x6 ins., 12 ins. in the ground, for 4 sec. cor., marked 7 on N. face; and raise a mound of stone, 2 ft. base, 12 ft. high, N. of cor. 40.00 No iron post, available. 48.30 top of spur, slopes N.; 640 ft. above beginning point at sec. cor. Desc. 110 ft. t. of slope. Asc., 370 ft.
Intersect E. bdy. of Camp Lowell Abandoned Military Reservation 11.00 chs. S. of the  $2l\frac{1}{2}$  mile cor., hereinbefore described.

At point of intersection

Survey of Part of Subdivision Lines of T. 13 S., R. 16 E.

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the 'ground, for closing cor. of secs. 15 and 22, marked on brass cap

T138 R16E CLAMR

1915

and raise a mound of stone, 2 ft. pase,  $l\frac{1}{2}$  ft. high, w. of cor.

Land, mountainous. Soil, rocky; 4th rate. No timber. Undergrowth, catclaw, mesquite, oak and cactus.

N.0°02'W., bet. secs. 15 and 16, over mountainous land, through scattering undergrowth.

/west

1.20

3.10

25.64

Descend, 30 ft. Wash, 20 lks. wide, course W.; Asc. 70 ft. Ridge, bears E. and W. Desc. 380 ft.

Edge of perpendicular wall of Agua Caliente Canyon, course To obtain distance across, I leave a flag at this station and from a point on line on N. side of canyon measure a base S.89°58'W. 8.00 chs. to a point whence flag bears S.31°08'E.; which gives for the distance across canyon, 8.00 x tan 58°54', = 8.00 x 1.6577, = 13.26; making the distance from sec. cor. 25.64 + 13.26, = 38.90 chs.

N. rim of canyon.

Set a granite stone, 20x8x6 ins., 15 ins. in the ground, for 2 sec. cor., marked 4 on W. face; and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor. No iron post available.

44.30 Descend. 365 ft.

50.85

40.00

Wash, 25 1ks. wide, course SW. Asc.

Intersect N. bdy. of Camp Lowell Abandoned Military Reservation, 152 lks. N.89°26'E. from the reestablished 37 mile cor., hereinbefore described.

At point of intersection Set an iron post, 3 ft. long, 2 ins. diam., in a mound of stone, for closing cor. of secs. 15 and 16, marked on brass cap

T138 R16E

S16 S15 CLAMR 1915

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.

Land, mountainous. Soil, rocky; 4th rate. No timber. Undergrowth, catclaw and cactus...

From the reestablished a sec. cor. bet. secs. 16 and 17, hereinbefore described:

38.90

```
Survey of Part of Subdivisional Lines of T. 13 S., R. 16 E.
Chains
          N.0°02'W., on a true line, bet. secs. 16 and 17,(N. half) over mountainous land, through scattering undergrowth. Asc. over steep rocky S. slope.
          Intersect N. bdy, of Camp Lowell Abandoned Military Res-
13.00
```

ervation 9 lks. W. of the reestablished 36 mile cor., hereinbefore described. At point of intersection

Set a granite stone, 20x12x4 ins., 15 ins. in the ground, for closing cor. of secs. 16 and 17, marked CC CLAMR on S. face; with 4 grooves on E. face; and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. No iron post, available.

40.00 A point 570 ft. above  $\frac{1}{4}$  sec. cor. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on brass cap

from which A mesquite, 6 ins. diam., bears S.832°W., 127 lks. dist., marked T13S R16E S17 BT. No other bearing trees available. Raise a mound of stone, 2 ft. base, la ft. high, W. of cor.

Land, mountainous. Soil, rocky; 4th rate.

No timber.

40.00

10

Undergrowth, catclaw, mesquite, paloverde and cactus.

East, on a true line, bet. secs. 9 and 16, over mountainous land, through scattering undergrowth. Asc. 20 ft.

3.20

Spur, slopes SW. Desc. 400 ft. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 4 sec. cor., marked on brass cap

1915

and raise a mound of stone, 2 ft. base, 1 ft. high. N. of cor.

This being the W. bdy. of Coronado National Forest, discontinue line.

Land, mountainous. Soil, rocky; 4th rate.

No timber.

Undergrowth, catclaw, mesquite, paloverde and cactus.

From the reestablished 2 sec. cor. bet. secs. 17 and 18, hereinbefore described;

N.0°03'W., on a true line, bet. secs. 17 and 18,(N. half) over rolling land, through dense undergrowth.

1.40 Wash, 30 lks. wide, course SW. Asc. through scattering brush.

12.89 Intersect N. bdy. of Camp Lowell Abandoned Military Res-

7.0		
12	Chains	Survey of Part of Subdivision Lines of T. 13 S., R. 16 E.
i		ervation, 30 lks. W. of the reestablished 35 mile cor., hereinbefore described. At point of intersection Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for closing cor. of secs. 17 and 18, marked on brass cap
x17	•	T13S R16E  S18 CC S17  CLAMR  1915  from which A mesquite, 4 ins. diam., bears S.14 to E., 88 lks. dist., marked CC T13S R16E S1/8 BT.
	40.00	A paloverde, 4 ins. diam., pears S.28 °W., 82 lks. dist., marked CC T13S R16E S18 BT.  3 in. iron post used on account of unavailability of 2 in post.  Set an iron post, 3 ft. long, 2 ins. diam., 14 ins in the
		ground, 12 ins. in a mound of stone, for cor. of secs. 7, 8, 17 and 18, marked on brass cap
		T13S R16E S7 S8 S18 S17
	•	and raise a mound of stone, 2 ft. base, $l_{\overline{z}}$ ft. high, w. of cor.
	•	Land, mountainous. Soil, rocky; 4th rate. No timber. Undergrowth, paloverde, mesquite and cactus.
		Rose on a monday lime hat
3	40.00 80.22	EAST, on a random line, bet. secs. 8 and 17.  Set temp. 7 sec. cor.  Intersect N. and S. line 3 lks. N. of the cor. of secs.  8, 9,16 and 17.
	0. (0	Thence N.85°59'W., on a true line, bet. secs. 8 and 17, over rough mountainside, through scattering undertrush. Desc. 220 ft. over general SW. slope, from spur sloping SW.
)	9.60 18.20 21.65 31.00 40.11	Wash, 18 lks. wide, course SW. Asc. 80 ft. Spur, slopes SW. Desc. 80 ft. Wash, 10 lks. wide, course SW. Asc. 205 ft. Spur, slopes SW. Desc. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 2 sec. cor., marked on brass cap
		3 8 - <del>1</del> S17
		1915
	_	and raise a mound of stone, 2 ft. pase, 1½ ft. high, N. of cor. Wash, 15 lks. wide, course SW., 260 ft. below spur. Asc. 225 ft. Spur, slopes S. Desc. 110 ft.

13

```
Survey of Part of Subdivision Lines of T. 13 S., R. 16 E.
80-22
          The cor. of secs. 7, 8, 17 and 18.
          Land, mountainous.
          Soil, rocky; 4th rate.
 ....
          No timber.
          Undergrowth, catclaw, paloverde and cactus.
          WEST, on a true line, bet. secs. 7 and 18,
            over rough mountainside, through scattering underbrush.
            Desc. 80 ft. from spur.
          Wash, 10 lks. wide, course SW. Asc. 55 ft.
= 1.70
          Spur, slopes S. Desc. 310 ft.
Wash, 20 lks. wide, course SE. Asc.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
11.40
23.70
40.00
            ground, for z sec. cor., marked on brass cap
                                                1915
           and raise a mound of stone, 2 ft. base, 1\frac{1}{2} ft. high,
             W. of cor.
45.05 Spur, slopes SW.; 375 ft. above wash. Desc. 375 ft. 66.20 Wash, 15 lks. wide, course SW. Asc. 135 ft. Intersect E. bdy. of T. 13 S., R. 15 E. 98 lks. N. of the cor. of secs. 12 and 13, described in Book C.
          At point of intersection
          Set a granite stone, 24x9x9 ins., 18 ins. in the ground, for closing cor. of secs. 7 and 18, marked CC on E. face; with 4 grooves on S. and 2 grooves on N. face; and raise a mound of stone, 2 ft. pase, 12 ft. high,
              E. of cor.
          No iron post, available.
          Land, mount ainous.
          Soil, rocky; 4th rate.
          No timber.
          Undergrowth, catclaw, paloverde and cactus.
```

2

Boundaries of part of T. 13 S., R. 16 E., Latitudes, Departures and Closing Errors.

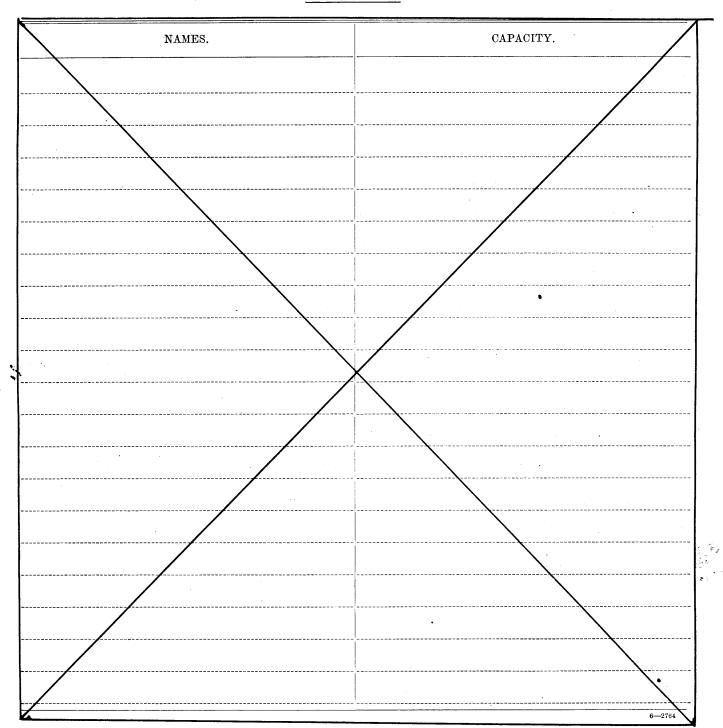
Line designated	True course.	Dist.	LATITU	DES.		ARTURES
Dine designated	N. 89 16 W	79.58		S	E.	79.57
Subdivisional	N. 0° 17' W	81.10	81.10			•40
Bdy.	S. 89° 17' W	79.14		.99	·	79.13
	N. 89° 08' W	80.64	1.22			80.63
	N. 889 52' W	40.23	.79		-	40.22
	N. 89° 53' W	39.06	. •08			39.06
West Tp. Bdy	N. 1° 00' W	38.33	38.32			.67
	North	40.98	40.98			
Subdivisional	East	79.60			79.60	
Bdy.	S. 89° 59' E	80.22		.02	80.22	
	S. 0° 02' E	27.00		27.00	\$00	
Bdy. of Camp Lowell	N. 89° 56' E	•09			•09	
	East .	78.68	,		78.68	
Abandoned Military	N. 89° 26' E	40.16	•.40	ļ, :	40.16	
_	N. 89° 15' E	41.04	• 54		41.04	,
Reservation	S. 0° 20' W	42.49	Keriman (1)	42.49		.25
	South S. 0° 20' E	39.83		39.83	0.7	
	S. 0° 20' E S. 0° 17' E	40.05 13.10		40.05	.23	
	3. U 17 E	10.10		13.10	•06	
Convergency					•06	
Totals		-	-164.45	163.48	320.16	319.93
			163.48	•	319.93	
Error in latitude	•		.97			
Error in departure					.23	
		-				

#### GENERAL DESCRIPTION.

The portion of the township embraced in the survey described in the foregoing notes is mostly mountainous being on the southwestern slope of the Santa Catalina Mountains. The surface of the south halves of Secs. 17 and 18 is nearly level with a sandy and gravelly soil 2nd and 3rd rate. Over the mountainous land the soil is gravelly and rocky 3rd and 4th rate. There is no timber, but dense and scattering growths of mesquite, catclaw, palo verde, and cactus prevail in all parts. There is no rermanent running water and no settlers, or improvements or signs of valuable mineral deposits. The most of the area is embraced within the boundary of the Camp Lowell Abandoned Military Reservation. The unsurveyed portion of this township is included in the Coronado National Forest Reserve.

4-680

# FIELD ASSISTANTS. see book "A"



## CERTIFICATE OF UNITED STATES SURVEYOR. $J\underline{ohn}$ F. Hesse.

3190	
OK I,	John F. Hesse , U. S. Surveyor, hereby certify upon honor that, in pursuance
	ctions received from the U.S. Surveyor General, forGroup_57, _arizona,
	the <u>lst</u> day of <u>October</u> , 1915, I have well, faithfully, and truly
	per person, and in strict conformity with said instructions, the Manual of Surveying Instruc-
	iws of the United States, surveyed all these parts or portions of retraced and re-
	ed all those parts of portions of the North and East boun-
	of Camp Lowell Abandoned Military Reservation; and surveyed
all tho	ose parts or portions of the subdivision lines of Township
13 Sout	th, Range 16 Rast,
	of the Gila and Salt Riv
Base ar	Meridian, in the State of, which are represented in
	and diagram on page 2 hereof old notes <sub>A</sub> as having been executed by me, and under my direction; and that all the corners o
retracement, said/ <del>survey</del> have	resurvey and survey be been established and perpetuated in strict accordance with the Manual of Surveying Instruc
·	pecial written instructions of the U.S. Surveyor General, forGroup 57, Arizons
· ·	, , , , , , , , , , , , , , , , , , , ,
and in the speci	ific manner described in the field notes, and that the foregoing are the original field notes of
	racement resurvey and survey.
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	racement, resurvey and survey.
	Tracement, resurvey and survey.  John D. Hesse  U. S. Surveyor  APPROVAL:
such <del>survey,</del> ret	Tracement, resurvey and survey.  John P. Hesse  U. S. Surveyor  APPROVAL:  OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
such <del>survey,</del> ret	Tracement, resurvey and survey.  John P. Hesse U. S. Surveyor  APPROVAL:  OFFICE OF THE UNITED STATES SURVEYOR GENERAL,  Phoenix, Arizona, October 14, 1916  Ing field notes of the survey of the retracement of part of the rest
The foregoi	Phoenix, arizona, October 14, 1916  In poundaries, and the resurvey of part of the morth boun-
The foregoing and Nordary of	Phoenix, arizona, October 14, 1916  In poundaries, and the resurvey of part of the morth boun-  Camp Lowell Abandoned Military Reservation; and the survey
The foregoinand Nordary of part	The Phoenix, arizona, October 14, 1916  or phoenix, arizona, October 14, 1916  or phoenix, arizona, of the survey of the retracement of part of the poundaries, and the resurvey of part of the north boundaries and the resurvey of part of the survey of and resurvey of part of the survey of part of the sundivision lines of Township
The foregoing and Moral dary of part	Phoenix, arizona, October 14, 1916  In poundaries, and the resurvey of part of the morth boundaries, and the resurvey of part of the survey of part of the sundivision lines of township th, mange 16 mast, of the sile and dalt niver pase and
The foregoinand flor dary of part 13 Sout	Phoenix, Arizona, October 14, 1916  In poundaries, and the resurvey of part of the north boundaries, and the resurvey of part of the survey of and resurvey of part of the survey of part of the survey of and the survey of part of the survey of part of the survey of part of the survey of part of the survey of part of the survey of part of the survey of part of the survey of part of the survey of part of the survey of part of the sunday in the state of arizons, and the state of arizons,
The foregoing and Moral dary of part 13 Sout	Phoenix, arizona, October // 1916  The poundaries, and the resurvey of part of the north boun- Camp Lowell Abandoned Ailitary Reservation; and the survey and resurvey of part of the survey and resurvey of part of the sundivision lines of rownship on, mange 16 part of the sundivision lines of rownship on, mange 16 part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the sundivision lines of the survey of part of the survey of p
The foregoin and Mor dary of part 13 Sout meridia executed by	Phoenix, arizona, October // 1916  The part of the curvey of the retracement of part of the north boundaries, and the resurvey of part of the north boundaries and the resurvey of part of the north boundaries and resurvey of part of the survey and resurvey of part of the survey of part of the survey and resurvey of part of the sunday sion lines of Township in, mange 16 mast, of the sulday sion lines of Township in, mange 16 mast, of the sila and salt miver base and in, in the State of arizona.  In the state of arizona, and corrections by Guy Pharrings for Group 57, arizona,
The foregoinand flor dary of part 13 Sout executed by	The Provat.  Office of the United States Surveyor Ceneral,  Phoenix, arizona, October 14, 1916  In poundaries, and the resurvey of part of the north boundaries, and the resurvey of part of the north boundaries and the resurvey of part of the north boundaries and the survey of part of the survey and resurvey of part of the sundivision lines of Township on, mange 16 mast, of the sile and salt hiver base and in the State of arizon,  I do y arthur W. Brown, U. S. Sedastral Engineer, and  John F. Wesse, U. S. Surveyor (M.S. Cadastral Engineer)  for Group 57, arizona,  al instructions dated (October 1st 1915, having been
The foregoin and Hor dary of of part 13 Sout executed by	The Proval.  Office of the United States Surveyor Ceneral,  Phoenix, arizona, October 14, 1916  In poundaries, and the resurvey of part of the north boundaries, and the resurvey of part of the north boundaries and the resurvey of part of the north boundaries and the survey of part of the survey and resurvey of part of the sundivision lines of Township on, mange 16 mast, of the sile and salt hiver pase and in the State of arizona,  I do y arthur W. Brown, U. S. Sadastral Engineer, and  John F. Wesse, U. S. Surveyor (M.S. Cadastral Engineer)  for Group 57, arizona,  al instructions dated, 1915, having been
The foregoin and Hor dary of of part 13 Sout executed by under specially examinative critically examinative critic	Phoenix, arizona, October 14 1916  The poundaries, and the retracement of part of the morth boundaries, and the resurvey of part of the morth boundaries, and the resurvey of part of the morth boundaries and the resurvey of part of the morth boundaries and the survey of part of the survey and resurvey of part of the sundivision lines of Township the mange 16 East, of the will and Salt hiver pase and in the State of arizona, and oy arthur W. Brown, U. S. Ocdastral Engineer, and John F. Wesse, U. S. Surveyor and corrections by Guy P. Harringtor for Group 57, arizona, at instruction dated October 1st 1915, having been red, and one necessary corrections and explanations made, the said field notes, and the surveyor and the necessary corrections and explanations made, the said field notes, and the surveyor and the necessary corrections and explanations made, the said field notes, and the surveyor of the said field notes, and the surveyor of the said field notes, and the surveyor of the said field notes, and the surveyor of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes, and the survey of the said field notes and the survey of the said field notes are said field notes.

4-680

### FIELD ASSISTANTS. to Arthur W. Brown, U. S. Cadastral Engineer.

NAMES.	CAPACITY.
William A. Ucker	lst Chainman
Juan Beday	Flagman
	<u> </u>
,	
	<u>                                     </u>

### CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

3190	
3190  U. S. Cadastral Engineer, I,arthur W. Brown,A, U.S. Surveyor, hereby certify upon honor that, in pursuance	æ
of special instructions received from the U.S. Surveyor General for Group 57, Arizona,	
bearing date of thelstday ofOctober, 1915 , I have well, faithfully, and trul	y
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 retraced all those	<u>5</u> e
parts or portions of the East boundary of Camp Lowell Abandoned	il-
itary Reservation, resurveyed all those parts or portions of the	
North boundary of Camp Lowell Abandoned Military Reservation, and	
resurveyed all those parts or portions of the subdivision lines	
of Township 13 South, Range 16 dast of the Gila and Saltak	Lver
Base and Meridian, in the State of Arizona, which are represented in and diagram on page 2 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of refracement and resurvey said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruction.	of
tions, and the special written instructions of the U.S. Surveyor General, forGroup_57, _Arizona	<b>,</b> -
and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. retracement and resurvey.	of
C. S. Surrey.	

	APPROVAL.
1	
	OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
	, 191
The foregoing field notes of the sur	rvey of
·	
i	
executed by	
~	
under his special instructions dated	, having been
i .	orrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.	
	U. S. Surveyor General.
I certify that the foregoing transcri	ipt of the field notes of the above-described surveys in
1 colony than to logoling transcri	proof the field flows of the above-described surveys in
, has	been correctly copied from the original notes on file in this office.
6-2764	U.S. Surveyor General

EOOK\_3190

4--680

#### FIELD ASSISTANTS.

NAMES.	CAPACITY.
	•
<b>A</b>	
•	
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6-276

## CADASTRAL ENGINEER. CERTIFICATE OF UNITED STATES SURVEYOR.

I, Guy P. Harrington, U. S. Surveyor, hereby certify upon honor that, in pursuance
of special instructions received from the U.S. Surveyor General, for Group 57, Arizona
bearing date of the 11 th day of September, 1919, 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
Resurvey of part of the Subdivision lines of
그 사용하다 그 그 그 그 그는 그는 그는 그는 그는 그는 그는 그는 그는 그는 그
Township 13 South - Range 6 East
· · · · · · · · · · · · · · · · · · ·
of the Gila and Salf
Piver Base M 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
correction 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 57, Arizona.
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
such survey. correction.
Guy P. Harring In.  U. S. Cadastral Engineer.
U.S.Cadastral Engineer.
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix, Arizona, Feb. 4, , 1920.
The foregoing field notes of the survey of Retracement of part of the East and
North boundaries, and the Resurvey of part of the North bdy.
of Camp Lowell Abandoned Military Reservation, and part of the
Subdivision lines of T.135, R.6E., and Survey of part of the
Subdivision lines of Township 13 South, Pange 6 East, of the
Gila and Salt River Base and Meridian, in the State of Arizona
executed by John F. Hesse, U.S. Surveyor and
executed by Arthur W. Brown, U.S. Cadastral Engineer, with corrections by Guy P. Harrington, U.S. Cadastral Engineer under his special instructions dated October I, 1915 and Sept. 11, 1919, 191 , having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys refracements, resurveys; surveys and corrections they describe, are hereby approved.
Frank & Strott
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.