

BOOK 3947

FIELD NOTES

OF RESURVEY OF

Part of the East Boundary,

Part of the North Boundary

and

Part of the Subdivisions of T.13 S., R.14 E.

AND OF THE SURVEY OF

Part (Completion) of the North Boundary and

Part (Completion) of the Subdivisions of

Township 13 South, Range 14 East

and the

South Boundary of

Fractional Township 12 $\frac{1}{2}$ South, Range 14 East

Of the Gila and Salt River Base and Meridian,

In the State of ARIZONA.

EXECUTED BY

Dupree R. Averill

U. S. Surveyor

In the capacity of U. S. Surveyor, under Special Instructions dated June 17, 1930, and supplemental special instructions dated May 7, 1932, issued by the District Cadastral Engineer to govern surveys included in Group No. 163 Arizona, which were approved by the Commissioner of the General Land and May 19, 1932, Office, July 25, 1930 and Assignment Instructions dated September 1, 1930 and May 11, 1932.

Resurvey and Survey commenced November 10, 1930.

Resurvey and Survey completed November 22, 1930.

Revision Survey executed May 27 to 31, 1932.
by authority of G.L.O. letter "E" dated Apr. 29-1932.

3947

3947

INDEX DIAGRAM.

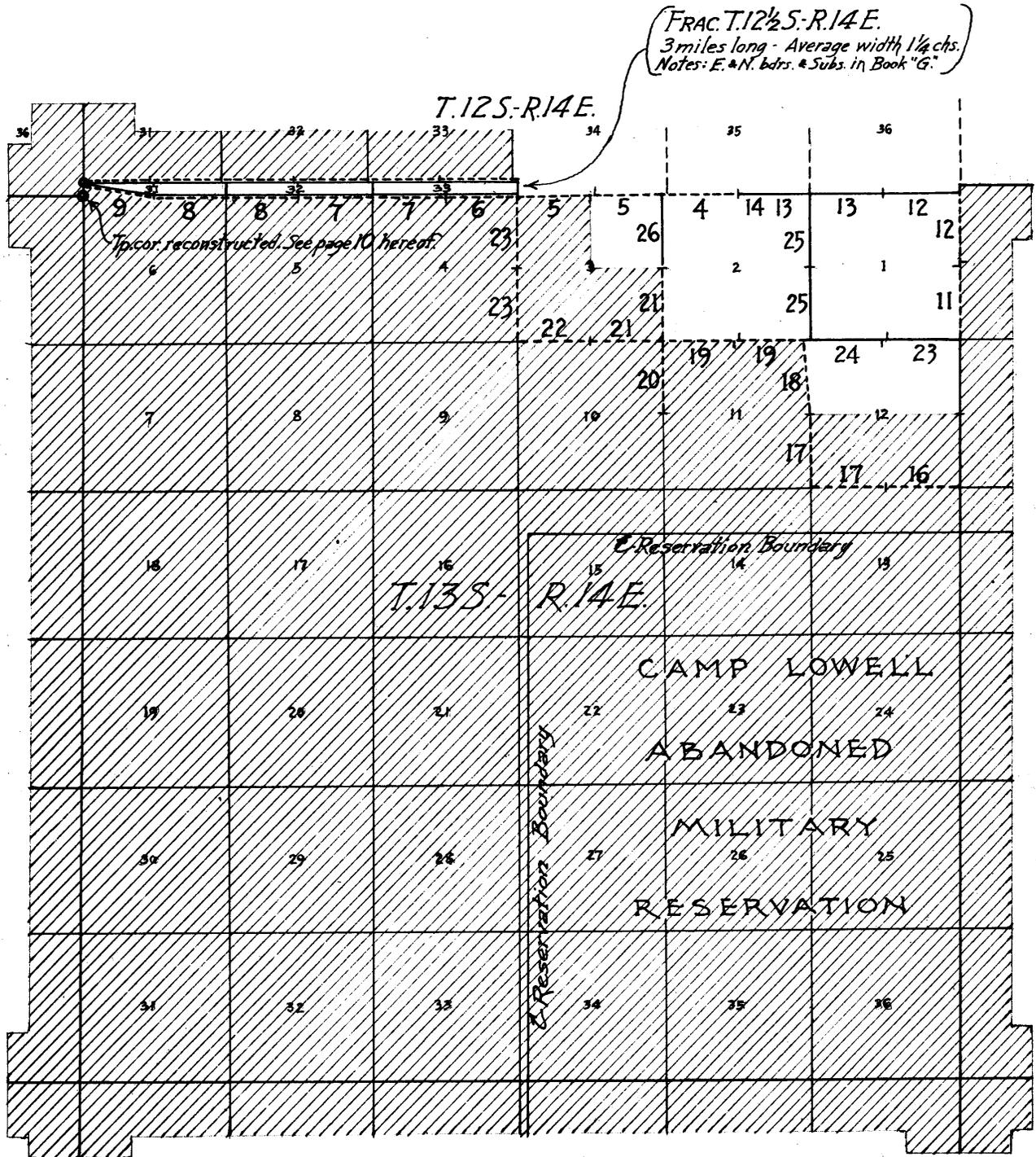
Township , *Range*

6	5	4	3	2	1
7	8	9	10	11	12
13	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Book "E"
Group 163 Arizona
INDEX DIAGRAM

Book No. 3947

BOOK 3947



————— Surveyed under this group. Notes herein and in Book "G."

----- Resurveyed under this group. Notes herein.

----- Resurvey of N. bdy. T.13S-R.14E. & Survey of S. bdy. Frac. T.12 1/2 S. R.14E. Notes herein. Alinement controlled by original cors. established by White in 1872.

----- Survey of N. bdy. Frac. T.12 1/2 S. R.14E. & Resurvey of S. bdy. T.12S-R.14E. Notes in Book "G" Alinement controlled by cors. reestablished by Jacobs in 1902.

————— Accepted, surveyed lines. (Not resurveyed under this group)

----- Unsurveyed lines.

 Areas surveyed as per accepted plats on file.

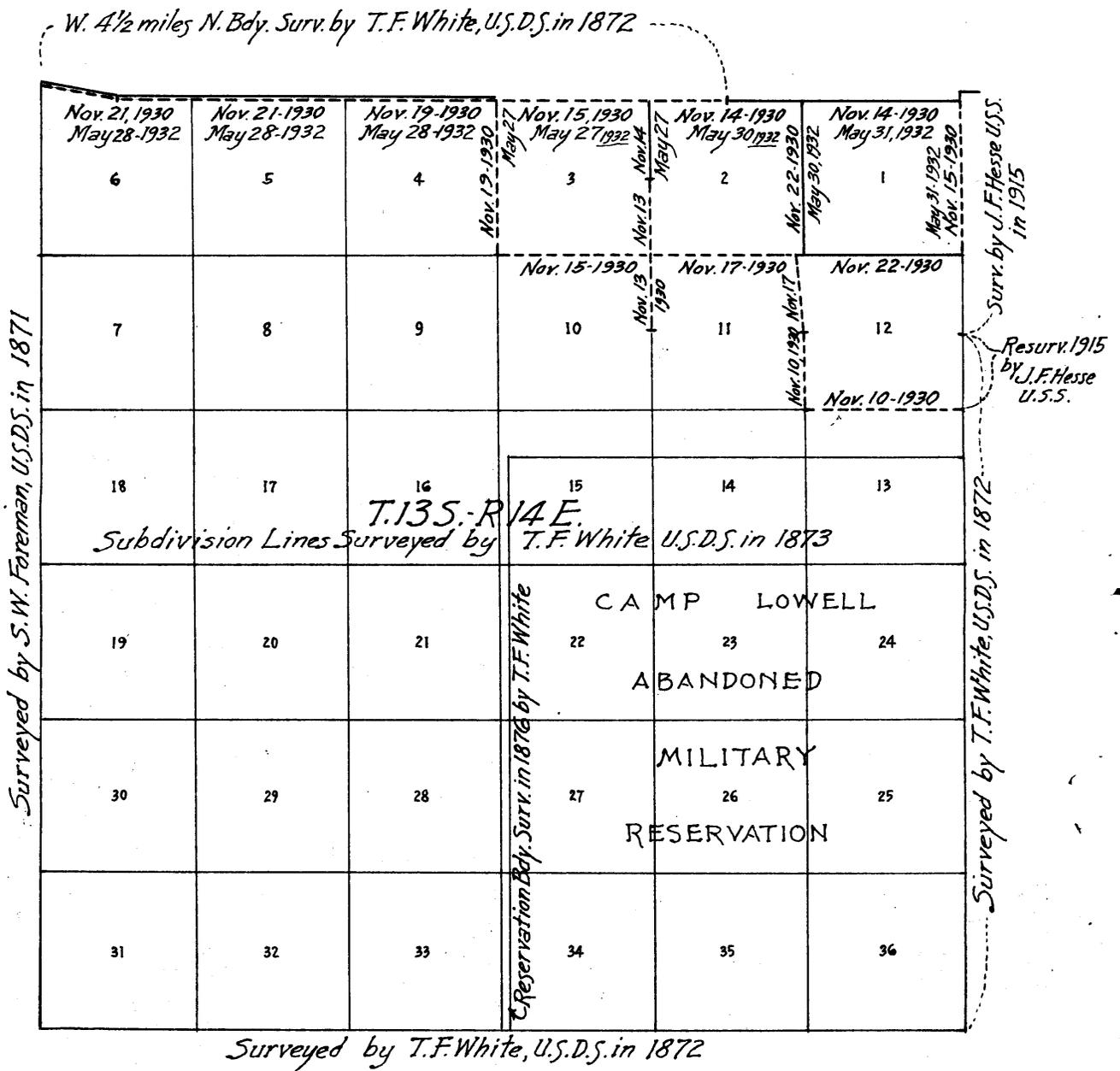
184
18

Book "E"
Group 163 Arizona

DATE DIAGRAM

1930
1932

BOOK 3947



————— Surveyed under this group by Dupree R. Averill, U.S. Surveyor, on dates shown thereon. Notes herein.

- - - - - Resurveyed under this group by D. R. Averill, U.S.S. on dates shown thereon. Notes herein.

==== S. bdy. Frac. T. 12 1/2 S. - R. 14 E. surveyed and N. bdy. T. 13 S. - R. 14 E. resurveyed, under this group, by D. R. Averill, U.S.S. on dates shown thereon. Notes herein.

————— Accepted, surveyed lines. (Not resurveyed under this group.)

Dates of surveys & resurveys executed under Special Instructions of June 17, 1930 shown in black
 Dates of surveys & resurveys executed under Supplemental Special Instructions May 7, 1932 shown in red.

Resurveys and surveys in township 13 south, range 14 east, were executed with a light mountain transit made by Buff & Buff, Serial No. 17992, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of $4\frac{1}{2}$ inches with two double opposite verniers reading to single minutes; the vertical has a diameter of 4 inches with one double vernier reading to single minutes; the telescope has fixed stadia wires, ratio 1:132, with a focal constant of 1.2 lks. The instrument is equipped with the improved Smith solar attachment; radius of the latitude arc 4 ins., and of the declination arc $3\frac{1}{2}$ ins., each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer September 1, 1930. Examined all instrumental adjustments before making the field tests hereinafter recorded.

The directions of all lines were determined by solar transit method, supplemented by direct observations upon the sun for azimuth. The measurements were made with a Lallis steel tape, 5 chs. in length, graduated every link for the first hundred links, and the balance at intervals of 10 lks. The tape was first tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope, and the vertical angle of each interval was ascertained by two clinometers in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position of the NE. cor. of the Tp. as follows: latitude $32^{\circ}20'12''$ N., and longitude $110^{\circ}51'38''$ W.

November 8, 1930, in camp, near the SW. cor. of sec. 22, T.13 S., R.14 E. in latitude $32^{\circ}17'N.$, longitude $110^{\circ}54\frac{1}{2}'W$ at 10 h. 27 m. p.m., l.m.t., observe Polaris at upper culmination, making four observations, two each with the telescope in direct and reversed positions, marking the mean point in the meridian thus determined by a nail in a stake driven firmly in the ground 7 chs. north.

November 9, 1930. Every hour, from 8 to 11 a.m., and from 1 to 4 p.m., make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less than $1'30''$.

Repeat the tests of the arcs daily by noon observation and verify the meridional indications at frequent intervals throughout the survey.

Revision survey executed May 27 to 31, 1932, using the same instrument. For description of field tests of same see notes of T.12 $\frac{1}{2}$ S., R.14 E., surveyed under this Group, Book G.

Resurvey of Part of the N. Bdy. of T.13 S., R.14 E.

chains

Part of the north boundary of T.13 S., R.14 E. was surveyed due east 360 chs. by T. F. White, U.S.D.S. in 1872 establishing common reference corners thereon at 40 ch. intervals. This survey was initiated from the original cor. of Tps. 12 & 13 S., Rs. 13 & 14 E. established in 1871 by S. W. Foreman, U.S.D.S., in connection with his subdivision of T.13 S., R.13 E.

In 1901, F. B. Jacobs, U.S.D.S., executed what purported to be a dependent resurvey of the west four miles of this Tp. boundary, the record of which described a reconstruction of the original cor. of Tps. 12 & 13 S., Rs. 13 & 14 E. from which said resurvey is initiated. He reports finding none of the White corners, and re-establishes all corners on such portion of the Tp. boundary at record distances due east from the Tp. cor. as reconstructed by him.

No retracement or resurvey of any part of this Tp. bdy. subsequent to the Jacobs resurvey is of record.

The following field notes describe a dependent resurvey of the west $3\frac{1}{2}$ miles of the N. bdy. of T.13 S., R.14 E. and an independent resurvey of the E. $\frac{1}{2}$ of the N. bdy. of sec. 3 and the W. $\frac{1}{2}$ of the N. bdy. of sec. 2. In retracing the Tp. bdy. four of the nine original cors. established by Deputy White in 1872 were found. The alignment of the N. bdy. of sec. 3, and the W. $\frac{1}{2}$ of the N. bdy. of sec. 2 is made cardinal by a random east to intersection with the range line, where the cor. of Tps. 12 and 13 S., R.14 E. is established. The east $1\frac{1}{2}$ miles of the Tp. boundary surveyed due west as hereinafter described, and the W. $\frac{1}{2}$ of the N. bdy. of sec. 2, and N. bdy. of sec. 3 resurveyed due west from the $\frac{1}{4}$ cor. of secs. 2 and 35 to intersection with the original cor. of secs. 3, 4, 33 and 34 (White). The cor. of secs. 2 and 3 is re-established due north of the original $\frac{1}{4}$ sec. cor. of secs. 2 and 3, T.13 S., R.14 E., and the $\frac{1}{4}$ sec. cor. of sec. 3 is re-established at mid-point on the N. bdy. of sec. 3.

The W. 3 miles of this resurvey is also a survey of the south boundary of fractional T.12 $\frac{1}{2}$ S., R.14 E.

Retracement for resurvey.

From the cor. of Ts. 12 & 13 S., R.14 E. (Jacobs).

East on a random line.

39.71 Fall 12 lks. N. of the reestablished $\frac{1}{4}$ sec. cor. of secs 6 and 31 (Jacobs).

41.11 Fall 179 lks. N. of the original $\frac{1}{4}$ sec. cor. of secs. 6 and 31 (White).

Thence

East on a random line.

38.57 Fall 169 lks. S. of the reestablished cor. of secs. 5, 6, 31 and 32 (Jacobs).

40.00 No trace of the original cor. of secs. 5, 6, 31 and 32 (White). Set temp. sec. cor.

78.49 Fall 170 lks. S. of the reestablished $\frac{1}{4}$ sec. cor. of secs. 5 and 32 (Jacobs).

79.60 Fall 37 lks. S. of the original $\frac{1}{4}$ sec. cor. of secs. 5 and 32 (White).

Resurvey of Part of the N. Bdy. of T.13 S.,R.14 E.

BOOK 3947

chains

Thence

East on a random line on the N. bdy. of sec. 5. E. $\frac{1}{2}$

38.01 Fall 156 lks. S. of the reestablished cor. of secs. 4,5, 32 and 33 (Jacobs).

38.80 Fall 28 lks. S. of the original cor. of secs. 4,5,32 and 33 (White).

Thence

East on a random line on the N. bdy. of sec. 4.

39.09 Fall 103 lks. S. of the reestablished $\frac{1}{4}$ sec. cor. of secs 4 and 33.(Jacobs).

40.00 No trace of the original $\frac{1}{4}$ sec. cor. of secs. 4 and 33, (White).

78.66 Fall 117 lks. S. of the reestablished cor. of secs. 3,4, 33 and 34 (Jacobs).

79.44 Fall 69 lks. S. of the original cor. of secs. 3,4,33 and 34 (White).

Thence

East on a random line on the N. bdy. of sec. 3.

38.50 Fall 68 lks. S. of the reestablished $\frac{1}{4}$ sec. cor. of secs 3 and 34 (Jacobs); Not a control cor. for this resurvey.

40.00 Find no trace of the original $\frac{1}{4}$ sec. cor. of secs. 3 and 34 (White).

78.50 Find no trace of the reestablished cor. of secs. 2,3,34 and 35, which was the terminus of the Jacobs resurvey.

80.00 Find no trace of the original cor. of secs. 2,3,34 and 35 (White). Continue line and measurement.

120.00 Find no trace of the original $\frac{1}{4}$ sec. cor. of secs. 2 and 35 (White), which was the terminus of the original survey of this line. Set temp. $\frac{1}{4}$ sec. cor., and continue line and measurement, setting temp. cors. at intervals.

243.50 Intersect the W. bdy. of T.13 S.,R.15 E. at 3.08 chs. South from the true point for cor. of Ts. 12 & 13 S., R.15 E., witnessed by a brass capped iron post hereinafter described. This point of intersection is the true position for the reestablished cor. of Ts. 12 & 13 S. R.14 E. hereinafter described in notes of 'Resurvey of Part of the East Bdy. of T.13 S.,R.14 E.'

True course and distance of the East half of the N. bdy. of T.13 S.,R.14 E. are therefore, West,243.50 chs.

The N. bdy. of sec. 1, and the E. $\frac{1}{2}$ of the N. bdy. of sec 2, are surveyed West 120.00 chs. as hereinafter described.

RESURVEY

At 3.50 chs. east from the temp. $\frac{1}{4}$ sec. cor. of secs. 2 and 35, set on the random line at the 120.00 ch. station, reestablish the $\frac{1}{4}$ sec. cor. as follows:

Set an iron post, 3 ft. long, 1 in. diam. 30 ins. in the

Resurvey of Part of the N. Bay. of T.13 S., R.14 E.

chains

ground, for reestablished $\frac{1}{4}$ sec. cor. of secs. 2 and 35, with brass cap mkd.

$\frac{1}{4}$ S 35
S 2

1930

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

Thence

West on true line, bet. secs. 2 and 35, W. $\frac{1}{2}$.

Over mountainous land, through scattered undergrowth.

Asc. 200 ft. over broken E. slope.

6.50 North point of bluff, facing SW. and S. 20° E. at apex of spur, sloping S. Low saddle in spur bears N. about 1 ch. distant.

Desc. 240 ft. over broken NW and W. slopes.

16.25 Gully, course S. 30° W. Asc. 30 ft. along E. slope.

18.50 Spur, slopes SW. Desc. 200 ft. over broken W. slope.

27.50 Draw, course SW. Asc. 40 ft. over SE. slope.

32.00 Flat spur, slopes S. Desc. 70 ft. over SW. slope.

39.50 Rocky gully, course S.

40.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, to rock, with marked (X) stone deposited alongside, and in a mound of stone to top, for the reestablished cor. of secs. 34 and 35 only, with brass cap mkd.

T12S R14E
S 34 | S 35
S 2
T13S R14E
1932

Asc. 25 ft. over SE. slope.

43.30 Intersect random section line surveyed due north from the original $\frac{1}{4}$ sec. cor. of secs. 2 and 3, as hereinafter described. At this point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground, to bedrock, with marked (X) stone deposited alongside, and in a mound of stone to top, for the reestablished cor. of secs. 2 and 3 only, with brass cap mkd.

T12S R14E
S 34
S 3 | S 2
T13S R14E

1930

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

No timber; scattered paloverde, greasewood and cacti.

Resurvey of Part of the N. Bay. of T.13 S., R.14 E.

BOOK 3947

chains	
	West, on true line, on N. bdy. of sec. 3.
	Over broken and rough mountains, through scattered undergrowth. Along S. slope.
2.00	Desc. 200 ft. over W. slope.
5.60	Gulch, course S. Asc. 140 ft. over E. slope.
8.20	Spur, slopes S. Desc. 50 ft. over W. slope.
12.70	Gulch, course S. Asc. 100 ft. over precipitous SE. slope.
32.25	Sharp spur, slopes S.30°W. A cabin bears S.20°W. about 20 chs. dist. Desc. 220 ft. over broken SW. and W. slope.
36.70	(40 chs. in departure from the reestablished cor. of secs. 34 and 35) Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground, to rock, with marked (X) stone deposited alongside, and in a mound of stone to top, for reestablished $\frac{1}{4}$ sec. cor. of sec. 34 only, with brass cap mkd.
	<u>$\frac{1}{4}$ S 34</u>
	1932
36.75	Ravine, course S.35°W. Asc. 50 ft. over SE. slope.
40.10	Mid-point on the N. bdy. of sec. 3. Set an iron post, 3 ft. long, 1 in. diam., 17 ins. in the ground, to bedrock with marked (X) stone deposited alongside, and in a mound of stone to top, for reestablished $\frac{1}{4}$ sec. cor. of sec. 3 only, with brass cap mkd.
	<u>$\frac{1}{4}$ S 3</u>
	1930
	Asc. 10 ft.
40.20	Top of small granite ledge, facing SE. Along broken S. slope.
41.70	A point 68 lks. S. from the reestablished $\frac{1}{4}$ sec. cor. of secs. 3 and 34 (Jacobs), which is a cross (X) and $\frac{1}{4}$ ' on the N. side thereof, on a sloping granite ledge, with a small mound of stone NW. As this corner monument ceases to function as a control of adjacent land areas, Destroy the marks on the granite ledge, and scatter the mound of stone.
42.70	Change of slope to SW. Desc. 100 ft.
49.50	Small gully, course S. Asc. 50 ft. over E. slope.
53.00	Sharp spur, slopes S.30°W. Mine hoist, and shaft, bears S.41 $\frac{1}{2}$ °E. about 41 chs. dist. House bears S.45 $\frac{1}{2}$ °E. about 44 chs. dist. Shed and machine shop bears S.43°E. about 41 chs. dist.
	Desc. 180 ft. over broken NW. slope.
64.25	Rocky gulch, course S.25°W. Asc. 10 ft.
64.50	Rocky dyke from N., crest of spur, sloping S. Desc. 70 ft.
67.60	Gully, course S.30°E. Asc. 25 ft.

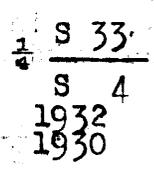
Resurvey of Part of the N. Bdy. of T.13 S., R.14 E.

chains															
70.00	Flat spur, slopes S. Desc. 40 ft. over W. slope.														
71.31	Cor. No.3 of 'Saratoga' patented lode mining claim, Mineral Survey No.3969, bears South 1.18 chs. dist., an iron pipe, 1 in. diam., firmly set in crevice of a granite ledge, projecting 18 inches. above same, capped with an iron plug, marked '3 S 3969'.														
75.60	Wash, 40 lks. wide, course S.30°E. Asc. 50 ft. over SE. slope.														
78.50	Small spur, slopes SE. Along S. slope.														
80.20	The original cor. of secs. 3,4,33 and 34 (White), which is a dilapidated mound of stone and portions of a rotted stake therein. This cor. now refers to secs.3 and 4, T.13 S.,R.14 E., sec. 33, T.12½ S. R.14 E. and sec.34 T.12S.,R.14 E. Reconstruct this cor. monument as follows: In center of old mound, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, to bedrock, and in a mound of stone to top, for the cor. of secs. 3 and 4, T.13 S.,R.14 E., sec. 33, T.12½ S.,R.14 E. and sec. 34, T.12 S.,R.14 E., with brass cap mkd. <table style="margin-left: auto; margin-right: auto;"> <tr> <td>T12½S</td> <td>T12S</td> </tr> <tr> <td>R14E</td> <td>R14E</td> </tr> <tr> <td>S 33</td> <td>S 34</td> </tr> <tr> <td>S 4</td> <td>S 3</td> </tr> <tr> <td colspan="2" style="text-align: center;">T 13 S R14E</td> </tr> <tr> <td colspan="2" style="text-align: center;">1932</td> </tr> <tr> <td colspan="2" style="text-align: center;">1936</td> </tr> </table> <p style="text-align: right;">raise a mound of stone 3 ft. base, 1½ ft. high, W. of cor.</p> <p>Land, broken and rough mountains. Soil, rocky, 3rd. and 4th. rate. No timber; undergrowth, scattered paloverde, catclaw, cacti and greasewood.</p> <p style="text-align: center;">-----Resurvey and Survey-----</p> <p>S.89°30'W. on true line bet. secs. 4 and 33. Over rolling land, through scattered undergrowth. Asc. 25 ft. over S. slope.</p>	T12½S	T12S	R14E	R14E	S 33	S 34	S 4	S 3	T 13 S R14E		1932		1936	
T12½S	T12S														
R14E	R14E														
S 33	S 34														
S 4	S 3														
T 13 S R14E															
1932															
1936															
4.50	Small spur, slopes S. Desc. 60 ft. over W. slope.														
10.00	Over gentle S. slope.														
19.40	Drain, course S.														
20.10	Desc. steep W. slope 100 ft.														
25.00	Gulch, course S.20°W.; Asc. 30 ft. over E. slope.														
28.00	Spur, slopes S.20°W.; Desc. 110 ft. over NW. slope.														
33.20	Wash, 15 lks. wide, course S.10°W.														
34.70	Road, bears N. and S.														
38.70	Wash, 10 lks. wide, course S.10°W. Asc. E. slope 60 ft.														
39.72	Mid-point; set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor. with brass cap														

Resurvey of Part. of the N. Bay. of T.13 S., R.14 E.
(Survey of S. Bdy. of Frac. T.12¹ S., R.14 E.)

chains

mkd.



raise a mound
of stone 3 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

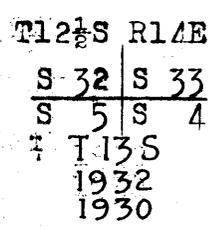
Asc. E. slope 50 ft.

- 41.25 Top of ascent; over gently rolling mesa. Asc. gradually.
- 59.25 Small wash, course S.
- 68.50 Wash, 10 lks. wide, course S.20°E.
- 77.00 Flat spur, slopes S.20°W. Desc. 10 ft.

79.44 The original cor. of secs. 4, 5, 32 and 33 (White), which is a dilapidated mound of stone, witnessed by a palo-verde tree 6 ins. diam., N.6 $\frac{1}{2}$ °W. 36 lks. dist. blazed and faintly marked. Although the record of the original establishment of this corner does not describe a bearing tree as an accessory, the position, appearance and growth of the tree is characteristic of other identified bearing trees of the original survey.

Reconstruct this cor. monument as follows:

In the center of the old mound set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground, to bedrock, with marked (X) stone deposited alongside, and in a mound of stone to top, for the cor. of secs. 4 and 5, T.13S. R.14 E. and secs. 32 and 33, T.12 $\frac{1}{2}$ S., R.14 E. with brass cap mkd.



Land, rolling and broken mesa.
Soil, rocky, 3rd. and 2nd. rate.
Timber, scattered paloverde; undergrowth, greasewood, catclaw mesquite and cacti.

S.89°35'W. on true line bet. secs. 5 and 32. E. $\frac{1}{4}$.

Over rolling and broken land, through scattered undergrowth. Desc. W. slope 110 ft.

- 6.60 Ravine, course SW. Asc. 60 ft. over SE. slope.
- 11.40 Spur, slopes SW. Desc. 115 ft.
- 18.50 Small draw, course S.20°W. Asc. 65 ft. over E. slope.
- 26.00 Small spur, slopes SW. Desc. 100 ft. over NW. slope.
- 38.80 The original $\frac{1}{4}$ sec. cor. of secs. 5 and 32 (White), which is a dilapidated mound of stone, witnessed by a palo-verde bearing tree, blazed and faintly marked, 28 lks. S.3°W.

Reconstruct this cor. monument as follows:

Resurvey of Part of the N. Bdy. of T.13 S., R.14 E.
(Survey of S. Bdy. of Frac. T.12½ S., R.14 E.)

chains

In the center of the old mound set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor. with brass cap mkd.

¼ S 32
S 5

1932
1930

raise a mound of stone 3 ft. base, 1½ ft. high, N. of cor.

Thence.

S.89°44'W. on true line bet. secs. 5 and 32, W.½.

Desc. gradual slope 15 ft.

0.40 Gully, course SW.

5.20 Old road, bears N.20°E. and S.20°W.

14.00 Wash, 50 lks. wide, course S.20°W. Over gently rolling land.

35.00 Drain, course S. Asc. 10 ft.

39.50 Flat spur, slopes S.25°W.

39.80 Mid-point between the original ¼ sec. cor. of secs. 5 and 32, and the original ¼ sec. cor. of secs. 6 and 31 (White).

Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for reestablished cor. of secs. 5 and 6, T.13 S., R.14 E. and secs. 31 and 32, T.12½ S. R.14 E., with brass cap mkd.

T12½S R14E
S 31 S 32
S 6 S 5

T13S R14E
1932
1930

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

Land, broken and rolling mesa.

Soil, rocky, 3rd. rate.

Timber; paloverde; undergrowth, greasewood, catclaw, cacti and mesquite.

S.89°44'W. on true line bet. secs. 6 and 31, E.½.

Over gently rolling land, through scattered undergrowth.

Desc. 30 ft. over W. slope.

6.60 Wash, 20 lks. wide, course S.

11.50 Old road, bears N. and S.25°W.

14.50 Wash, 20 lks. wide, course S.20°W. Asc. 10 ft.

29.00 Low spur, slopes SW. Desc. 40 ft.

33.50 Wash, 10 lks. wide, course S.

39.80 The original ¼ sec. cor. of secs. 6 and 31 (White), which

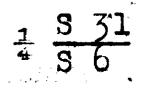
Resurvey of Part of the N. Bdy. of T.13 S., R.14 E.
(Survey of S. Bdy. of Frac. T.12 S., R.14 E.) BOOK 3947

chains

is a dilapidated mound of stone.

Reconstruct this cor. monument as follows:

In the center of the mound set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.



1932
1930

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

A two wire electric power transmission line extends N.87°W. and N.87°E.

Thence

N.87°30'W. on true line bet. secs. 6 and 31, W. $\frac{1}{2}$.

Desc. 65 ft. over gradual SW. slope.

9.40 Wash, 10 lks. wide, course S.30°W. Asc. 60 ft.

19.00 Flat spur, slopes SW. Desc. 60 ft.

24.50 Wash, 30 lks. wide, course SW. Asc. 30 ft.

30.50 Flat mesa spur, slopes S.30°W.

35.00 Top of bluff bank of wash, bears N.20°E. and SW. Desc. 35 ft.

36.75 Wash, 50 lks. wide, course SW. Over rocky bed of Pima Canyon wash, course SW.

41.15 The cor. of Ts. 12 & 13 S., R.14 E. as reconstructed by Jacobs in 1901, which is a granite stone, 8 x 7 x 6 ins. above ground, firmly set, marked with 6 notches on the E. N. and S. faces, and witnessed by the original accessories:

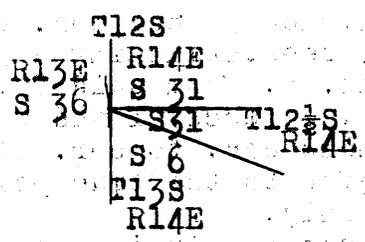
a decayed paloverde stump, bears N.92°E. 88 lks. dist. markings obliterated by decay.

a decayed paloverde stump, bears N.19 $\frac{1}{2}$ °W. 136 lks. dist. markings decayed.

a live paloverde, 12 ins. diam. bears S.9 $\frac{1}{2}$ °W. 54 lks. dist., markings obliterated.

This cor. now refers to sec. 31, T.12 S., R.14 E., sec. 31, T.12 $\frac{1}{2}$ S., R.14 E. and sec. 6, T.13 S., R.14 E., Reconstruct cor. monument as follows:

In place of the stone, which is deposited alongside, set an iron post, 3 ft. long, 3 ins. diam., 32 ins. in the ground, with brass cap mkd.



1932
1930

raise a mound of stone 3 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor.

Resurvey of Part of the N. Bdy. of T.13 S.,R.14 E.
(Survey of S. Bdy. of Frac. T.12 S.,R.14 E.).

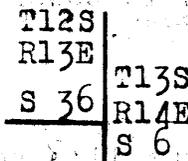
chains

Fence corner bears NE. 50 lks. dist., from which wire fencing extends E. and N.
Electric power line extends E. and SW.

The cor. of sec. 36, T.12 S.,R.13 E. (SE. cor) re-established by Deputy DuVal in 1911, which is a granite stone 10 x 10 x 10 ins., above ground, firmly set, marked with 6 notches on the N. and W. faces, bears South 1.71 chs. dist.

Reconstruct this cor. monument as follows:

In place of the stone, which is deposited alongside, set an iron post, 3 ft. long, 3 ins. diam., 32 ins. in the ground, for the cor. of T.12 and 13 S., R.13 E. with brass cap mark.



1930

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

Land, broken and gently rolling mesa.
Soil, rocky, 3rd. rate.
Timber, scattered palo verde; undergrowth, greasewood, catclaw, cacti and mesquite.

Resurvey of Part of the E. Bdy. of T.13 S.,R.14 E.

The south 4 1/2 miles of the E. bdy. of T.13 S.,R.14 E, were surveyed due north by T. F. White, U.S.D.S., in 1872, establishing common reference corners thereon at 40 ch. intervals. The north 1 1/2 miles of this Tp. bdy. were surveyed due north by J. F. Hesse, U.S.S., in 1915 and 1917, establishing common reference cors. thereon at 40 chain intervals, and establishing the cor. of Ts.12 & 13 S. Rs.14 & 15 E. at 160. chs. N. from the original cor. of secs. 7,12,13 and 18, on said Tp. bdy.

Surveyor Hesse, in 1915, being unable to find the original 1/4 sec. cor. of secs. 7 and 12 from which to initiate his Tp. bdy. survey, reconstructed the cor. of secs. 7,12,13 and 18 with a brass capped iron post, resurveyed the S. 1/4 of the line bet. secs. 7 and 12, and reestablished the missing 1/4 sec. cor. at 40 chs. north from said sec. cor.

No other resurvey, and no retracement of any part of this Tp. bdy. is of record.

The following field notes describe a resurvey of the E. bdy. of sec.1, reestablishing the cor. of Ts.12 & 13 S. R.14 E. on the range line at a point due east from the reestablished 1/4 sec. cor. of secs. 2 and 35, Ts.12 & 13 S. R.14 E., reestablishing a 1/4 sec. cor. for sec. 1 only, at 40 chs. S. from said Tp. cor., altering the original 1/4 sec. cor. of secs. 1 and 6 to refer to sec. 6 only, and the witness cor. to cor. of Ts. 12 and 13 S.,Rs. 14 & 15 E. to refer to the true point for cor. of Ts.12 & 13 S., R.15 E. only.

The topography is in close agreement with the record of the 1915-1917 survey, and is therefore omitted from these notes.

Resurvey of Part of the E. Bdy. of T.13 S.R.14 E.

chains

A temp. cor. for Ts. 12 & 13 S. R.14 E. was set at 3.08 chs. S. from the true point for the cor. of Ts.12 & 13 S. R.15 E., by a random line E. from the reestablished $\frac{1}{4}$ sec. cor. of secs. 2 and 35, as hereinbefore described.

From this temp. Tp. cor.

South on a random line on the E. bdy. of sec. 1.

36.92 Intersect original $\frac{1}{4}$ sec. cor. of secs. 1 and 6.

40.00 Set temp. $\frac{1}{4}$ sec. cor. for sec. 1.

76.92 Intersect the original cor. of secs. 1,6,7 and 12.

True course and distance of the E. bdy. of sec, 1 are therefore, N. 76.92 chs.

Resurvey

The original cor. of secs. 1,6,7 and 12, is an iron post 3 ins. diam.; extending 9 ins. above ground, firmly set and properly marked on brass cap, and witnessed by a mound of stone to the West. The record of the establishment of this cor. described four bearing trees, but find no trace of any of them at this date.

A wire fence, bearing N. and S. is 10 lks. to the E. of this corner.

Thence

North, on true line, on the E. bdy. of sec. 1.

Over gently rolling, and broken land, through scattered undergrowth; along W. side of wire fencing.

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



1930

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

40.00 The original $\frac{1}{4}$ sec. cor. of secs. 1 and 6, which is an iron post, 1 in. diam., extending 10 ins. above ground, firmly set, and properly marked on brass cap, witnessed by a mound of stone W.

Alter this cor. monument to refer to sec. 6 only by changing the markings on the brass cap to read



1930
1915

destroy the mound of stone W. of cor. and raise a mound of stone 2 ft. base, 1 1/2 ft. high, E. of cor.

Continuing line and measurement, along wire fencing bearing N. and S.

50.00 Enter rolling and broken mountains.

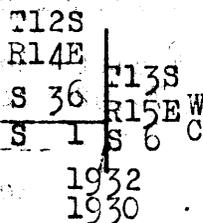
Resurvey of Part of the East Bdy. of T.13 S., R.14 E.

chains

60.00 N. end of wire fencing.

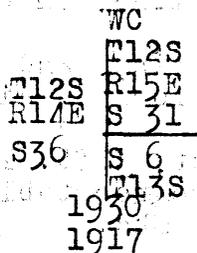
76.92 True point for the reestablished cor. of Ts. 12 & 13 S. R.14 E. falls upon the crest of small broken ledges facing E., an insecure position for a corner monument.

At a point West 20 lks. dist, upon crest of narrow spur, sloping S., set an iron post, 3 ft. long, 3 ins. diam., 12 ins. in the ground, to bedrock, with marked (X) stone deposited alongside, and in a mound of stone to top, for witness cor. of Tps. 12 & 13 S., R.14 E. with brass cap mkd.



At 2.68 chs. N. from true point for the cor. of Ts.12 and 13 S. R.14 E., and 40 lks. S. from the true point for original cor. of Ts.12 & 13 S., Rs. 14 & 15 E. is the witness cor. to said original Tp. cor. This witness cor. monument is an iron post, 3 ins. diam., projecting 30 ins. above ground, supported in a mound of stone to top, properly marked on brass cap.

Alter this cor. monument to witness the true point for cor. of Ts. 12 & 13 S., R.15 E. only, by changing the marking on the brass cap to read



No bearing trees available.
Deposit a marked (X) stone alongside base of post.

Survey of Part (Completion) of the N. Bdy. of T.13 S. R.14 E.

From true point for reestablished cor. of Ts.12 and 13 S. R. 14 E., above described.

West on true line bet. secs. 1 and 36.

Over rolling mountainous land, through scattered undergrowth. Asc. 5 ft. over E. slope.

0.20 The witness cor. of Ts.12 & 13 S., R.14 E. hereinbefore described.

Desc. 90 ft. over SW. slope.

3.10 Gully, course S.10°W. Asc. 70 ft.

6.90 Small spur, slopes S.20°W. Desc. 175 ft. over SW. slope.

12.00 Small draw, course S.20°W. Asc. 30 ft. along SE. slope.

18.50 Small spur, slopes S. Desc. 60 ft. over W. slope.

Survey of Part (Completion) of the N. Bdy. of T.13 S., R.14 E.

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chains							
28.50	Wash, course S. Asc: 175 ft. over SE. slope.						
33.00	Small spur, slopes S.30°W. Desc. 20 ft.						
34.50	Drain, course S.; Asc. 50 ft. over SE. slope.						
38.40	Sharp spur, slopes S.; Desc. 65 ft. over W. slope.						
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.						
	$\frac{1}{4} \begin{array}{r} S 36 \\ S 1 \end{array}$						
	1930						
	raise a mound						
	of stone 3 ft. base, 2 ft. high, H. of cor.						
	Desc. 60 ft. over W. slope.						
43.00	Drain, course SW. Asc: 25 ft. over SE. slope.						
48.00	Small spur, slopes S.30°W.; Desc. 50 ft. over W. slope.						
49.50	Across small open basin, draining W.						
54.00	Sharp rocky dyke, 20 ft. high, bears N. and S.						
55.25	Rocky wash, 30 lks. wide, course S.20°W. Asc. 150 ft. over SE. slope.						
58.00	Gully, course S.						
64.00	Spur, slopes S. Desc. 50 ft. over SW. slope.						
69.75	Gully, course S. Asc. 30 ft. over SE. slope.						
76.00	Change of slope to SW., desc. 25 ft.						
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, to bedrock, with marked (X) stone deposited alongside, and in a mound of stone to top, for the cor. of secs. 1, 2, 35 and 36, with brass cap mkd.						
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>T12S</td> <td>R14E</td> </tr> <tr> <td>S 35</td> <td>S 36</td> </tr> <tr> <td>S 2</td> <td>S 1</td> </tr> </table>	T12S	R14E	S 35	S 36	S 2	S 1
T12S	R14E						
S 35	S 36						
S 2	S 1						
	T13S						
	1930						
	Land, broken and rolling mountains.						
	Soil, rocky, 3rd. rate.						
	No timber; undergrowth, greasewood, catclaw, cacti, and mesquite.						

	West on true line bet. secs. 2 and 35, E. 1/4.						
	Over broken mountainous land, thru scattered undergrowth.						
	Along S. slope.						
1.75	Drain, course S.20°E.; Asc. 140 ft. over SE. slope.						
9.25	Spur, slopes S.20°W., Desc. 180 ft. over W. slope.						
12.50	Draw, course S. Asc. 300 ft. over precipitous E. slope.						

Survey of Part (Completion) of the N. Bdy. of T.13 S.,R.14 E.

chains

19.40 Spur, slopes S. Desc. 125 ft. over SW. slope.

22.50 Gulch, course S. Along S. slope.

25.75 Spur, slopes S. Desc. 200 ft. over SW. slope.

32.75 Draw, course S. Asc. 65 ft. over E. slope.

40.00 The reestablished $\frac{1}{4}$ sec. cor. of secs. 2 and 35, herein-
before described.

Land, broken mountains.

Soil, rocky, 3rd. and 4th. rate.

No timber; undergrowth, greasewood, catclaw and cacti.

Resurvey of Part of the Subdivisions of T.13 S.,R.14 E.

The subdivision lines of T.13 S.,R.14 E., with the exception of the lines bet. secs. 1 and 12, and 1 and 2, and the N. $\frac{1}{2}$ of the line bet. secs. 2 and 3, were surveyed by T. F. White, U.S.D.S., in 1873. No subsequent retracement or resurvey of any part of same is of record.

The following notes describe a resurvey of the S. and W. bdrs. of sec. 12, the N. bdy. of sec. 11, the N. $\frac{1}{2}$ of the line bet. secs. 10 and 11, the S. $\frac{1}{2}$ of the line bet. secs. 2 and 3, and the line bet. secs. 3 and 10, and the W. bdy. of sec. 3.

Retracement for Resurvey

From the original cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp.

West, on a random line, bet. secs. 12 and 13, E. $\frac{1}{2}$.

39.53 Fall 13 lks. N. of the original $\frac{1}{4}$ sec. cor.
True course and dist. of the E. $\frac{1}{2}$ of line bet. secs. 12
and 13 are therefore S. 89° 49' W. 39.53 chs.

Thence

West on a random line bet. secs. 12 and 13, W. $\frac{1}{2}$.

39.64 Fall 37 lks. N. of the original cor. of secs. 11, 12, 13
and 14.
True course and dist. of the W. $\frac{1}{2}$ of the line bet. secs.
12 and 13 are, therefore, S. 89° 28' W. 39.64 chs.

Thence

North on a random line bet. secs. 11 and 12. S. $\frac{1}{2}$.

39.87 Fall 7 lks. W. of the original $\frac{1}{4}$ sec. cor.
True course and dist. of the S. $\frac{1}{2}$ of the line bet. secs.
11 and 12 are, therefore, N. 0° 06' E. 39.87 chs.

Thence

North on a random line bet. secs. 11 and 12. N. $\frac{1}{2}$.

40.00 Find no trace of the original cor. of secs. 1, 2, 11 and 12.
Set temp. cor. (A) of said sections.

Thence

West on a random line, searching at record intervals for

Resurvey of Part of the Subdivisions of T.13 S., R.14 E.

BOOK 3947

chains

original cor. monuments, finding no trace of any original cor. until at

163.92 Fall 289 lks. N. of the original cor. of secs. 3,4,9 and 10.

Thence

N.88°59'E. on a trial latitudinal line bet.secs. 3 and 10.

40.05 (40.04 chs. E. dep.) Set temp. $\frac{1}{4}$ sec. cor. for secs. 3 and 10.

80.08 (80.07 chs. E. dep.) Set temp. cor. (A) for secs. 2,3,10 and 11.

Thence

N.88°59'E. on a trial latitudinal line bet.secs. 2 and 11

40.01 (40.00 chs. E. dep.) Set temp. $\frac{1}{4}$ sec. cor. for sec.11 only.

80.02 (80.00 chs. E. dep.) Set temp. cor. for secs. 11 and 12 (B), from which the temp. cor.(A) of secs. 1,2,11 and 12, bears East. 3.85 chs. dist.

The point for reestablishment of the missing cor. of secs. 11 and 12, is therefore at temp. cor. (B) of said secs. and 3.85 chs. W. from temp. cor. (A) of same secs. This point gives 40 chs. latitude for the N. $\frac{1}{2}$ of the line bet.secs. 11 and 12, record departure of 80.07 chs. for the line bet.secs. 3 and 10, and of 80.00 chs. departure for the N. bdy. of sec. 11. The true course and dist. of the N. $\frac{1}{2}$ of the line bet. secs. 11 and 12, to this reestablished point, are therefore N.5°30'W. 40.18 chs.

From the original $\frac{1}{4}$ sec. cor. of secs. 10 and 11.

North on a random line.

40.00 Find no trace of the original cor. of secs. 2,3,10 and 11.

Continue line and measurement.

79.64 Fall 72 lks. E. of the original $\frac{1}{4}$ sec. cor. of secs.2 and 3.

Thence

S.0°31'E. on a trial meridional section line.

39.82 (Mid-point) Set temp. cor. (B) for secs. 2,3,10 and 11, from which temp. cor. (A) of same secs. bears N.8°21'E. 110 lks. dist., or 16 lks. E. and 109 lks. N.

The true point for reestablishment of the missing cor. of secs. 2,3,10 and 11, to maintain record departure for the line bet. secs. 3 and 10, and proportional dist. on the meridional sec. line, is therefore at 109 lks. S. from temp. cor. (A) of said secs. and at 16 lks. E. from temp cor. (B). The true courses and distances of the subdivision lines controlled by this reestablished cor. are therefore:

Resurvey of Part of the Subdivisions of T.13 S., R.14 E.

chains

N. bdy. of sec. 11 S. $88^{\circ}12'W$. 80.04 chs.
 Line bet. secs. 3 and 10 S. $89^{\circ}46'W$. 80.07 chs.
 N. $\frac{1}{2}$ of line bet. secs. 10 and 11 N. $0^{\circ}17'W$. 39.82 chs.
 S. $\frac{1}{2}$ of line bet. secs. 2 and 3 N. $0^{\circ}45'W$. 39.82 chs.

 From the original cor. of secs. 3, 4, 9 and 10.

North on a random line bet. secs. 3 and 4. S. $\frac{1}{2}$.

40.15 Fall 55 lks. E. of the original $\frac{1}{4}$ sec. cor.
 True course and dist. of the S. $\frac{1}{2}$ of the line bet. secs.
 3 and 4, are, therefore, N. $0^{\circ}47'W$. 40.15 chs.

Thence

North on a random line bet. secs. 3 and 4, N. $\frac{1}{2}$.

39.97 Fall 14 lks. E. of the cor. of secs. 3, 4, 33 and 34, on
 the N. bdy. of Tp. hereinbefore described.
 The true course and dist. of the N. $\frac{1}{2}$ of the line bet.
 secs. 3 and 4 are, therefore, N. $0^{\circ}12'W$. 39.97 chs.

 RESURVEY

From the original cor. of secs. 7, 12, 13 and 18, on the E.
 bdy. of Tp. as reconstructed in 1915; an iron post
 3 ins. in diam., extending 12 ins. above ground, firmly
 set, properly marked on brass cap, and witnessed by a
 mound of stone W. No bearing trees.

S. $89^{\circ}49'W$. on true line bet. secs. 12 and 13, E. $\frac{1}{2}$.

Over rolling and broken land, through scattered under-
 growth. Desc. 60 ft. over gradual W. slope.

6.60 Wash, 40 lks. wide, course S. $20^{\circ}W$. Asc. 100 ft. over SE.
 slope.

21.50 Spur, slopes S. $30^{\circ}W$. Desc. 110 ft. over W. slope.

32.00 Wash, 30 lks. wide, course S. $20^{\circ}W$. Asc. 25 ft. over E.
 slope.

37.00 Spur, slopes S. $20^{\circ}W$. Desc. 20 ft. over W. slope.

39.53 The original $\frac{1}{4}$ sec. cor. which is a mound of stone,
 witnessed by the original accessories:
 a paloverde stump, 6 ins. diam., S. $82^{\circ}W$. 34 lks. dist.
 no markings visible.
 a paloverde stump, 6 ins. diam., S. $10^{\circ}E$. 25 lks. dist.
 no markings visible.

Reconstruct this cor. monument as follows:

remove the mound of stones, and in the center of its
 position, set an iron post, 3 ft. long, 1 in. diam.,
 12 ins. in the ground, to bedrock, with a marked (X)
 stone deposited alongside, and supported in a mound of
 stone to top, for $\frac{1}{4}$ sec. cor. with brass cap mkd.

$\frac{1}{4}$ S 12
 S 13

1930

Thence

Resurvey of Part of the Subdivisions of T.13 S., R.14 E.

BOOK 3947

chains	<p>S.89°28'W. on true line bet.secs. 12 and 13, W.½.</p> <p>Over rolling and broken land, through scattered undergrowth and timber. Desc. 25 ft. over W. slope.</p> <p>1.60 Wash, 20 lks. wide, course S.30°W. Asc. 40 ft. over SE. slope.</p> <p>6.90 Spur, slopes S.20°W. Desc. 25 ft. over W. slope.</p> <p>11.60 Wash, 30 lks. wide, course S. Asc. 40 ft. over SE.slope.</p> <p>19.15 Spur, slopes S.15°W. Desc. 25 ft. over W. slope.</p> <p>26.80 Wash, 20 lks. wide, course S.20°W. Asc. 90 ft. over SE. slope.</p> <p>30.75 Spur, slopes S.15°E. Desc. 55 ft. over W. slope.</p> <p>35.00 Drain, course S.10°E. Asc. 40 ft. over E. slope.</p> <p>37.50 Spur, slopes S. Desc. 15 ft. over W. slope.</p> <p>39.64 The original cor. of secs. 11,12,13 and 14, which is a mound of stone witnessed by the original accessory: a paloverde stump, 6 ins. diam. N.78°E. 157 lks. dist. showing old blaze and faint illegible markings.</p> <p>Reconstruct this cor. monument as follows: remove the old mound of stone, and in the center of its position, set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, to bedrock, with a marked (X) stone deposited alongside, and in a mound of stone to top, for the cor. of secs. 11,12,13 and 14, with brass cap mkd.</p> <div style="text-align: center;"> <table border="1"> <tr><td colspan="4">T13S R14E</td></tr> <tr><td>S 11</td><td> </td><td>S 12</td><td></td></tr> <tr><td>S 14</td><td> </td><td>S 13</td><td></td></tr> </table> <p>1930</p> </div> <p>From this cor. an iron pipe, 1½ ins. diam., projecting 12 ins. above ground, firmly set in a concrete base, provided with a brass cap quartered with right lines, bears N.68½°W. 3.27 chs. dist. This post has been set by a local surveyor as a restoration of the original sec. cor.</p> <p>Land, rolling and broken. Soil, rocky, 3rd. rate. Timber, scattered paloverde and mesquite; undergrowth, greasewood, catclaw and cacti.</p> <hr/> <p>From the original cor. of secs. 11,12,13 and 14, reconstructed as above described.</p> <p>N.0°06'E. on true line bet.secs. 11 and 12, S.½.</p> <p>Over rolling land, through scattered timber and undergrowth. Desc. 10 ft. over W. slope.</p> <p>11.90 Wash, in shallow draw, 100 lks. wide, course S.20°W. Asc. 105 ft. over E. and SE. slopes.</p> <p>13.90 Top of bluff bank of wash, 20 ft. high, bears NE. and SW.</p> <p>29.00 Spur, slopes S.30°W., Road along spur, bears NE. and SW.</p>	T13S R14E				S 11		S 12		S 14		S 13	
T13S R14E													
S 11		S 12											
S 14		S 13											

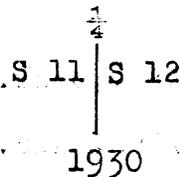
Resurvey of Part of the Subdivisions of T.13 S., R.14 E.

chains

House bears East. about 1.75 chs. dist.
Desc. 40 ft. over NW. slope.

39.87 The original $\frac{1}{4}$ sec. cor. which is a mound of earth and stone, witnessed by the original accessory: a paloverde, 4 ins. diam., S.13°E. 54 lks. dist., the markings have been obliterated by decay in the old blaze.

Reconstruct this cor. monument as follows:
in center of the old mound, set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, to bedrock, with a stone marked X deposited alongside, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. with brass cap mkd.



From this cor. an iron pipe, 1 in. diam., projecting 10 ins. above ground, firmly set, and provided with a threaded iron cap; unmarked, bears N.74°W. 4.20 chs. dist. This point has been established by local survey as a restoration of the original $\frac{1}{4}$ sec. cor.

From reconstructed original $\frac{1}{4}$ sec. cor.

N.5°30'W. on true line bet. secs. 11 and 12, N. $\frac{1}{2}$.

Over rolling land, through scattered timber and undergrowth. Desc. 10 ft. over NW. slope.

9.00 Wash, 20 lks. wide, course SW. Asc. 120 ft. over SE. slope.

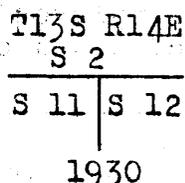
28.50 Small knoll, on spur, sloping SW. Desc. 60 ft. over NW. slope.

33.00 Drain, course SW. Over gently S. slope.

38.25 Road, bears NE. and SW. Desc. 5 ft. over SW. slope of shallow draw.

39.00 Road, bears E. and W.

40.18 Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for reestablished cor. of secs. 11 and 12 only, with brass cap mkd.



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

From this cor. an iron pipe, 2 ins. diam., projecting 20 ins. above ground, firmly set in the ground and a mound of stone, provided with a brass cap quartered by cardinal lines, bears N.6°W. 130 lks. dist. This point has been established by local survey as the cor. of secs. 1, 2, 11 and 12.

Land, rolling.

Soil, gravelly and rocky, 2nd. and 3rd. rate.

Timber, scattered paloverde and mesquite; undergrowth,

Resurvey of Part of the Subdivisions of T.13 S., R.14 E.

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chains	greasewood, catclaw and cacti.

	From the reestablished cor. of secs. 11 and 12. S.88°12'W. on true line on the N. bdy. of sec. 11. Over rolling land, through scattered timber and undergrowth.
1.00	Road, bears N. and SE.
1.75	Wash, 50 lks. wide, course S. Asc. 30 ft. over E. slope.
12.00	Small spur, slopes S.20°E., from knoll NW. Along S. slope.
14.40	Head of gully, course S.
17.00	Small spur, slopes SW., from knoll NE. Desc. 60 ft. over NW. slope.
26.00	Wash, 20 lks. wide, course SW. Over nearly level land, draining S.
30.50	Wash, 40 lks. wide, course S.20°W.
37.06	(40 chs. west departure from the reestablished cor. of secs. 1 and 2, hereinafter described). Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for reestablished South $\frac{1}{4}$ sec. cor. of sec. 2, with brass cap mkd.
	<u>$\frac{1}{4}$ S 2</u>
	1930
	raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. House of John Ivancovitch bears N.32°E. 31.50 chs. dist. From this cor. an iron pipe, 1 in. diam., projecting 12 ins. above ground, firmly set in a concrete base, provided with a threaded iron cap, unmarked, bears N.0°15'W. 166 lks. dist.
40.02	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the reestablished North $\frac{1}{4}$ sec. cor. of sec. 11, with brass cap mkd.
	<u>$\frac{1}{4}$ S 11</u>
	1930
	raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Desc. gradually over SW. slope.
43.50	Wash, 10 lks. wide, course SW. Asc. 30 ft. over SE. slope.
49.50	Road, bears NE. and SW.
55.00	Small spur, slopes SW. Desc. 90 ft. over W. slope.
70.00	Wash, 10 lks. wide, course S.80°W.
77.00	Wash, 50 lks. wide, course SW. Asc. 10 ft.

Resurvey of Part of the Subdivisions of T.13 S., R.14 E.

chains

80.04

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, to bedrock, and in a mound of stone to top, for the reestablished cor. of secs. 2, 3, 10 and 11, with brass cap mkd.

T13S R14E	
S 3	S 2
S 10	S 11

1930

raise a mound of stone 3 ft. base, 1 1/2 ft. high, W. of cor. House of Byron Ivancovitch bears N.23°W. 18 chs. dist. An iron pipe, 2 ins. diam. projecting 12 ins. above ground, firmly set in a concrete base, provided with a brass cap, quartered by cardinal lines, bears N.46 1/2°E. 380 lks. dist.,

Land, rolling and level. Soil, gravelly and rocky, 2nd. and 3rd. rate. Timber, scattered paloverde and mesquite; undergrowth, greasewood, cacti and catclaw.

The original 1/4 sec. cor. of secs. 10 and 11 is a low mound of earth and stone, witnessed by the original accessories:

- a paloverde, 6 ins. diam., N.83°E. 45 lks. dist., illegibly marked in old blaze.
- a paloverde, 8 ins. diam., N.40 1/2°W. 71 lks. dist., illegible marked in old blaze.

Reconstruct this cor. monument as follows: in the center of the old mound, set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, to bedrock, with a stone marked X deposited alongside, and in a mound of stone to top, for 1/4 sec. cor., with brass cap mkd.

S 10	S 11
------	------

1930

Thence N.0°17'W. on true line bet. secs. 10 and 11. N. 1/2.

Ascend gradually over gently rolling land, through scattered timber and undergrowth.

- 8.65 Wash, 40 lks. wide, course S.60°W.
- 15.20 Wash, 30 lks. wide, course SW. Asc. 30 ft.
- 21.35 Small spur, slopes S.80°W. Desc. 45 ft. over N. slope.
- 21.40 Road, bears N.80°E. and S.80°W.
- 24.50 Wash, 20 lks. wide, course W. Asc. 25 ft. over SW. slope.
- 35.00 Wash, 50 lks. wide, course S.40°W. Asc. 20 ft. over SE. slope.
- 39.82 The reestablished cor. of secs. 2, 3, 10 and 11.

Land, gently rolling. Soil, gravelly and rocky, 2nd. and 3rd. rate.

Resurvey of Part of the Subdivisions of T.13 S., R.14 E.

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chains

Timber, scattered paloverde; undergrowth, greasewood, cacti and catclaw.

From reestablished cor. of secs. 2, 3, 10 and 11.

N.0°45'W. on true line bet. secs. 2 and 3, S. $\frac{1}{2}$.

Over rolling land, through scattered timber and undergrowth.

9.10 Wash, 50 lks. wide, course SW.

11.60 Low flat spur, slopes SW. Desc. 15 ft. over NW. slope.

18.15 Wash, 10 lks. wide, course SW. Asc. 15 ft. over SE. slope.

24.80 Low spur, slopes SW. Along W. slope.

28.80 Wash, 10 lks. wide, course SW. Asc. 10 ft.

32.70 Low spur, slopes SW. Stub road extends NE. Desc. 10 ft. over NW. slope.

38.60 Shallow ravine, course SW. Asc. 10 ft. over SE. slope.

39.82 The point of original location of the $\frac{1}{4}$ sec. cor. of secs. 2 and 3, determined by record tie to one of the original bearing trees:
 a paloverde, 6 ins. diam., N.35 $\frac{1}{2}$ °W. 26 lks. dist., illegibly marked in old blaze.
 Find no trace of original NE. tree.

Reconstruct this cor. monument as follows:

at original cor. point, set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor. with brass cap mkd.

$\frac{1}{4}$
 S 3 | S 2
 1932

raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land gently rolling.
 Soil, gravelly and rocky, 2nd. and 3rd. rate.
 Timber, scattered paloverde and mesquite; undergrowth, greasewood and cacti.

From reestablished cor. of secs. 2, 3, 10 and 11.

S.89°46'W. on true line bet. secs. 3 and 10.

Over rolling and broken land, through scattered timber and undergrowth. Asc. slightly over SE. slope.

1.10 Desc. 20 ft. over NW. slope.

10.00 Wash, 20 lks. wide, course SW. Asc. gradually over SE. slope.

20.00 Low flat spur, slopes S.35°W. Road, bears N. and S. Desc. 60 ft. over W. slope.

Resurvey of Part of the Subdivisions of T.17 S., R.14 E.

- chains
 27.00 Wash, 10 lks. wide, course SW. Asc. 20 ft. over E. slope.
 30.00 Spur, slopes S.15°W. Desc. 40 ft. over W. slope.
 36.00 Shallow draw, course S.
 37.12 From this point an iron post, 1 in. diam. projecting 14 ins. above ground, firmly set in the ground, and in a mound of stone, unmarked, bears North 3.13 chs. dist.
 40.03 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of secs. 3 and 10, with brass cap mkd.

$\frac{1}{4}$ S 3
 S 10

1930

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

- 41.00 Wash, 100 lks. wide, course S. Asc. 60 ft. over E. slope.
 46.50 Spur, slopes S. Desc. 45 ft. over W. slope.
 56.25 Road, bears N. and S.
 57.00 Wash, 10 lks. wide, course S. Asc. 50 ft. over E. slope.
 67.00 Small spur. extends S. Desc. 40 ft. over W. slope.
 73.50 Wash, 10 lks. wide, course S.
 76.50 Wash, 15 lks. wide, course S. Thence over nearly level land.
 80.07 Intersect point of original location of the cor. of secs. 3, 4, 9 and 10, determined by the record tie to one of the two original bearing trees:
 a paloverde, 6 ins. diam., S.81°W. 61 lks. dist. illegibly marked.

This cor. point has been remonumented by a local surveyor with an iron pipe, 1 in. diam., extending 16 ins. above ground, firmly set and in a mound of stone to top.

Reconstruct this cor. monument as follows:

remove the mound of stone and iron pipe, and in the same place set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground, to bedrock, with a stone marked X deposited at base of post, and in a mound of stone to top, for the cor. of secs. 3, 4, 9 and 10, with brass cap mkd.

T13S R14E
 S 4 | S 3
 S 9 | S 10

1932

Find no trace of the original NE. bearing tree.

An iron pipe, 2 ins. diam. projecting 16 ins. above ground, firmly set, and in a mound of stone, unmarked, bears N.41°E. 4.40 chs. dist.

U.S.L.M. No.3969, which is an iron pipe, 3 ins. diam. projecting about 10 ft. above ground, firmly set in ground, and a cairn of rock, 4 ft. high, 5 ft. base,

Resurvey of Part of the Subdivisions of T.13 S., R.14 E.

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chains

bears N.64°55'E. 34.69 chs. dist.

Land, gently rolling and broken. Soil, gravelly and rocky, 2nd. and 3rd. rate. Timber, scattered paloverde and mesquite; undergrowth, greasewood, cacti and catclaw.

From the cor. of secs. 3, 4, 9 and 10.

N.0°47'W. on true line bet. secs. 3 and 4. S. 1/2.

Over gently rolling land, through scattered timber and undergrowth. Ascend, very gradually, 100 ft. over S. slope

7.45 Old road, unused, bears NE. and SW.

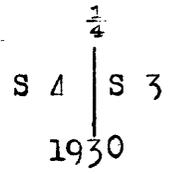
40.15 Intersect point of original location of the 1/4 sec. cor. of secs. 3 and 4, determined from original accessories:

a paloverde, 7 ins. diam., N.60°E. 60 lks. dist. illegibly marked.

a mesquite stump, 12 ins. diam., N.15 1/2°W. 60 lks. dist. showing part of old blaze.

Reconstruct this cor. monument as follows:

at original cor. point, set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for 1/4 sec. cor. with brass cap mkd.



raise a mound of stone, 3 ft. base, 1 1/2 ft. high, W. of cor.

Thence

N.0°12'W. on true line bet. secs. 3 and 4, N. 1/2.

Asc. 165 ft. over increasing S. slope.

39.97 The reconstructed cor. of secs. 3 and 4, on the N. bdy. of the Tp. hereinbefore described.

Land, gently rolling. Soil, rocky, 2nd. and 3rd. rate. Timber, paloverde and mesquite; undergrowth, greasewood, cacti and catclaw.

Survey of Part (Completion) of the Subdivisions of T.13 S., R.14 E.

From the reestablished cor. of secs. 11 and 12.

N.89°39'E. (parallel to mean bearing of S. bdy. of sec. 12) on a random line on the N. bdy. of sec. 12.

82.96 Intersect the E. bdy. of the Tp. 2 lks. S. of the cor. of secs. 1, 6, 7 and 12, hereinbefore described.

Thence

S.89°38'W. on true line, on the N. bdy. of sec. 12.

Survey of Part (Completion) of the Subdivisions of T.13 S., R.14 E.

chains	Over rolling and broken land, through scattered undergrowth.
2.50	Wash, 20 lks. wide, course S.30°E.
5.00	Asc. 65 ft. over NE. slope.
11.00	Spur, slopes SE. Desc. 50 ft. over SW. slope.
17.00	Drain, course S.20°W. Asc. 80 ft. over SE. slope.
28.00	Short spur, slopes S. Along S. slope.
31.00	Spur, slopes SW. Desc. 60 ft. over NW. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground, to bedrock, with a stone marked X deposited alongside, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor. of sec. 1, with brass cap mkd.
	<u>$\frac{1}{4}$ S 1</u>
	1930
	Desc. 15 ft. over NW. slope.
41.48	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, to bedrock, with stone marked X deposited alongside, and in a mound of stone to top, for N. $\frac{1}{4}$ sec. cor. of sec. 12, with brass cap mkd.
	<u>$\frac{1}{4}$ S 12</u>
	1930
	Desc. 30 ft. over NW. slope.
43.85	Wash, 20 lks. wide, course S.20°W. Asc. 20 ft. over E. slope.
53.40	Low spur, slopes S. Desc. 40 ft. over W. slope.
56.10	Wash, 25 lks. wide, course S. Asc. 20 ft. over SE. slope.
65.00	Along gentle S. slope.
68.40	Drain, course S.
75.00	Wash, 10 lks. wide, course S.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for reestablished cor. of secs. 1 and 2, only, with brass cap mkd.
	T13S R14E
	S 2 S 1
	<u>S 12</u>
	1930
	raise a mound
	of stone, 3 ft. base, 2 ft. high, N. of cor.
	Residence of John Ivancovitch bears N.49°W. about 38 chs dist.
	Well and windmill bears N.26 $\frac{1}{2}$ °E. 12.67 chs. dist.
80.95	Road, bears NE. and SW.

Survey of Part (Completion) of the Subdivisions of T.13 S., R.14 E.

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chains

82.00 Desc. 15 ft. over W. slope.

82.96 The reestablished cor. of secs. 11 and 12.

Land, rolling and broken.
Soil, gravelly and rocky, 2nd. and 3rd. rate.
Timber, scattered paloverde and mesquite; undergrowth,
greasewood, cacti and catclaw.

From the reestablished cor. of secs. 1 and 2.

N.0°01'W. on a random line bet. secs. 1 and 2.

37.20 Set temp. $\frac{1}{4}$ sec. cor.

77.22 Intersect N. bdy. of Tp. 7 lks. W. of the cor. of secs. 1, 2, 35 and 36, hereinbefore described.

Thence

S.0°02'W. on true line bet. secs. 1 and 2.

Over mountainous land, through scattered undergrowth.
Desc. 65 ft. over S. slope.

2.00 Small gully, course S.20°E. Desc. 280 ft. over decreasing SE. slope.

27.20 Enter wash, 30 lks. wide, course S. from NE. Thence down wash.

31.25 Leave wash, course S.30°E. Over gently sloping mesa, draining SE. and S.

40.00 Set an iron post, $\frac{3}{4}$ ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor. with brass cap mkd.

$\frac{1}{4}$

S 2 | S 1

1930

raise a mound

of stone 3 ft. base, 2 ft. high, W. of cor.

Desc. 130 ft. over gentle S. slope.

73.00 Wash, 20 lks. wide, course SW. Asc. S. bank of wash, 10 ft.

74.00 Picket fence, bears NE. and SE., surrounding Mr. Cochrane's residence.

75.00 Mr. Cochrane's residence, a stone house containing 5 rooms, on line.

75.60 Picket fence, bears NE. and SW. Leave enclosure.

77.22 The reestablished cor. of secs. 1 and 2.

Land, mountainous in N. $\frac{1}{4}$, remainder gently rolling mesa.
Soil, rocky and gravelly, 3rd. and 2nd. rate.
Timber, none; undergrowth, greasewood, cacti and catclaw.

Survey of Part (Completion) of the Subdivisions of T.13 S., R.14 E.

chains

- From the reconstructed $\frac{1}{4}$ sec. cor. of secs. 2 and 3.
North on a random line bet. secs. 2 and 3, N. $\frac{1}{4}$.
- 39.86 Intersect the resurveyed N. bdy. of the Tp. at a point 43.30 chs. West from the reestablished $\frac{1}{4}$ sec. cor. of secs. 2 and 3. Reestablish the cor. of secs. 2 and 3. at this point of intersection as hereinbefore described.
- Thence
- South on true line bet. secs. 2 and 3, N. $\frac{1}{2}$.
- Over mountainous land, through scattered undergrowth.
Desc. 225 ft. over S. slope.
- 8.00 Gulch, course S. 60° W. Along W. slope.
- 9.50 Spur, slopes SW. Desc. 200 ft. over SE. slope through scattered timber.
- 26.93 Intersect N. side line (4-1) of "Don Jose" patented mining claim, Min. Survey No. 3969, at a point 9.14 chs. N. $80^{\circ}45'$ E. from cor. No. 4 thereof. Thence across said claim.
- 30.30 Bend in gulch, course SE. from NE.
- 34.04 Intersect S. side line (2-3) of "Don Jose" claim at a point 8.03 chs. S. $80^{\circ}45'$ W. from cor. No. 2 thereof. Leave patented mineral land.
- 39.86 The reconstructed $\frac{1}{4}$ sec. cor. of secs. 2 and 3, hereinbefore described.
- Land, mountainous; and broken mesa.
Soil, rocky, 3rd. rate.
Timber, scattered paloverde; undergrowth, greasewood, cacti and catclaw.

Final Test of Solar Attachment.

November 22, 1930. At camp in the SW. quarter of sec. 22, T.13 S., R.14 E. at 8h. Om. a.m. appt. time, set off $32^{\circ}17'$ N. on the latitude arc, $20^{\circ}01\frac{1}{2}'$ S. on the declination arc and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 4h. Om. p.m. appt. time, with the latitude arc unchanged, set off $20^{\circ}06'$ S. on the decl. arc. and repeat the test of the solar; the line of sight agrees with the true meridian.

General Description.

Sections 1 and 2, the NE. $\frac{1}{4}$ of sec. 3, and the N. $\frac{1}{2}$ of sec. 12, constitute the area added to T.13 S., R.14 E. by the surveys hereinbefore described. The surface of this part of the township is comprised of a rolling mesa, which in the extreme north part rises abruptly against the base of the Santa Catalina Mountains. The mean altitude is about 3000 feet above sea level; the drainage is southerly into Rillito Creek which crosses thru the southern part of the township in a westerly direction. The soil is shallow and of poor quality, classed throughout as 2nd. and 3rd. rate.

There is a stunted growth of paloverde and mesquite

General Description.

BOOK 3947

timber; a scattering undergrowth of greasewood, catclaw and cactus.

The present residents of this part of the township have obtained water for domestic purposes by drilling, wells being located in sections 1 and 2.

There are mining claims in sections 2 and 3, six claims of Mineral Survey No. 3969 being patented. There is no further development work in progress at the present time. The city of Tucson is situated about 8 miles to the SW.

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Dupree R. Averill, U. S. Surveyor, hereby certify upon honor that, in pursuance of special ^{and supplemental special} instructions received from the District Cadastral Engineer, for Group 163, Arizona bearing date of the 17th day of June, 1930, and the 7th day of May, 1932, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, ~~resurveyed~~ all those parts or portions of East boundary, North boundary, and Subdivision Lines of Township 13 South, Range 14 East and surveyed all those parts or portions of the South bdy. of Frac. T. 12 1/2 S., R. 14 E.; & the North boundary, and Subdivision Lines of Township 13 South, Range 14 East 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 ~~resurvey~~ ^{and} survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special ^{and supplemental special} written instructions of the District Cadastral Engineer, for Group 163, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ~~resurvey~~ ^{and} survey.

Place: Phoenix, Arizona.

Date: July 18, 1932.


 U. S. Surveyor.

APPROVAL.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colo., OCT 14 1932, 193

The foregoing field notes of the ~~resurvey~~ of Part of the East boundary, Part of the North boundary, and Part of the Subdivision Lines of Township 13 South, Range 14 East and of the survey of Part (Completion) of the North boundary, and Part (Completion) of the Subdivision Lines of Township 13 South, Range 14 East and the South bdy. of Fractional Township 12 1/2 South, Range 14 East of the Gila and Salt River Base and Meridian, in the State of Arizona executed by Dupree R. Averill, U.S. Surveyor. under special and ~~supplemental special~~ instructions dated June 17th, 1930, and May 7th, 1932, for Group 163, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~resurveys~~ ^{and surveys} they describe, are hereby approved.


 U. S. Supervisor of Surveys.

~~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.~~

~~U. S. Supervisor of Surveys.~~