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4-879
(April 1933)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

BOOK 4151

FIELD NOTES

OF RETRACEMENT

Part of Boundary of Papago Indian Reservation

OF RESURVEY

Part of Subdivision Lines

AND OF SURVEY

Part of Subdivision Lines

Township 20 South, Range 7 East

Of the GILA AND SALT RIVER Meridian,

In the State of ARIZONA

EXECUTED BY

Benjamin J. Kinsey, Surveyor

Under special instructions dated October 25, 1937, which provided for the surveys included under Group No. 221, Ariz., bearing the approval of the Commissioner of the General Land Office under date of November 23, 1937 and assignment instructions dated February 12, 1938

Retracement, Resurvey and Survey commenced March 31, 1938

Retracement, Resurvey and Survey completed April 17, 1938

4151

4151

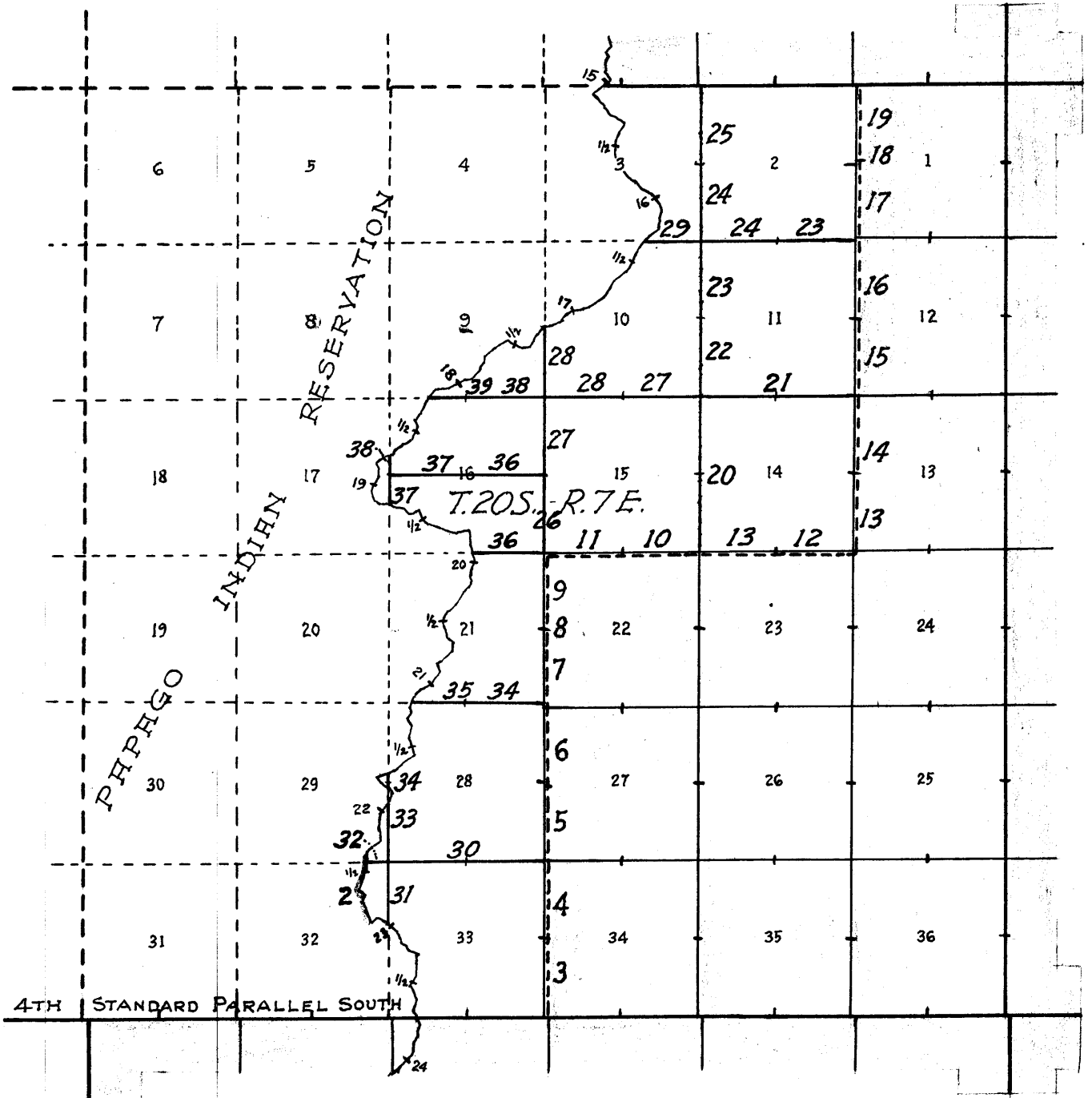
INDEX DIAGRAM.

Township _____, Range _____

6	5	4	3	2	1
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INDEX-DIAGRAM.

BOOK 4151



- Lines of accepted surveys.
- Unsurveyed lines.
- Lines surveyed under this group.
- Lines resurveyed under this group.
- Lines retraced under this group.
- ▭ Areas surveyed as per accepted plats on file.

The retracements, resurveys and surveys hereinafter described were executed by Benjamin J. Kinsey, Surveyor, using Buff transit No. 18,000. The instrument is equipped with Smith solar attachment and otherwise conforms to the standard requirements of the General Land Office. The instrument was examined and approved by the District Cadastral Engineer for Arizona and California, prior to the surveys, conditional upon a satisfactory field test.

PRELIMINARY FIELD TEST OF INSTRUMENT
by
Benjamin J. Kinsey, Surveyor.

March 30, 1938: at station about 20 chs. SW. of the $\frac{1}{4}$ sec. cor. of secs. 10 and 15, T. 20 S., R. 7 E., G. & S.R. Meridian, Arizona, in latitude $31^{\circ}41\frac{1}{2}'N.$, and longitude $111^{\circ}37'W.$, as determined from data furnished with the Special Instructions, I examine the adjustments of the transit and find no errors; then to test the workings of the solar apparatus proceed as follows:

At 7h. 7m., p.m., l.m.t. observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and marking the mean point in the line thus determined by a tack set in top of a peg, driven firmly in the ground about 5 chs. North.

Azimuth of Polaris at western elongation = $1^{\circ}12'33''$.

March 31; at same station, above described, lay off the azimuth of Polaris $1^{\circ}12\frac{1}{2}'$ to the east, and mark the mean point in the line thus determined by a tack set in top of peg, about 5 chs. North.

At 9h. 00m., a.m., app.t., set off $31^{\circ}41\frac{1}{2}'N.$ on the latitude arc; $4^{\circ}05\frac{1}{2}'N.$ on the declination arc; and determine a meridian with the solar which agrees with the true meridian.

At app. noon with the latitude arc unchanged, observe the sun on the meridian and obtain a reading of $4^{\circ}08\frac{1}{2}'N.$ on the declination arc, which agrees with the computed declination of the sun.

At 3h. 00m., p.m., app.t., with the latitude arc unchanged, set off $4^{\circ}11\frac{1}{2}'N.$ on the declination arc; and determine a meridian with the solar, which agrees with the true meridian.

As all of the observations taken during the usual hours of solar work agree within 1' of the true meridian conclude that the adjustments of the instrument are in a satisfactory condition.

Unless otherwise specified, all measurements are made with a Lufkin steel tape, 5 chs. in length, compared with a Lufkin standard and found correct.

The measurements are made on the slope, the vertical angles determined with clinometer, and slope measurements properly reduced to horizontal equivalents for entry in the field notes.

Retracement of Part of East Bdy. of Papago Indian Reservation.

2.

Chains

The East Bdy. of the Papago Indian Reservation, thru T. 20 S., R. 7 E., following the crest of the Baboquivari Mountains in the North half of said Tp. and the crest of the Pozo Verde Mountains in the South half, was surveyed in 1927 by B.J. Kinsey, U.S. Surveyor and Charles E. Hunter, U.S. Transitman, the survey southerly to the 16th mile monument being executed by Kinsey and the remainder by Hunter. Mile and half mile points were monumented by brass-capped iron posts, and the intermediate angle points by small mounds of stone.

No retracement or resurvey of this Reservation boundary is of record.

The following notes describe a retracement of part of the said reservation bdy. on the 23rd mile of same, in order to obtain a proper closing of that part of sec. 32 of T. 20 S., R. 7 E., situate outside the reservation.

From angle point No. 7 of the 1st half of the 23rd mile of P.I.R. bdy., which is a small mound of stone,

S. $9^{\circ}45'W.$, on a random line, on part of 1st half of 23rd mile of E. bdy. of P.I.R.

Along crest of Pozo Verde Mountains, descending.

- 6.20 A point 8 lks. S. $80\frac{1}{2}^{\circ}E.$ from the $22\frac{1}{2}$ mile mon., an iron post, 1 in. diam., projecting 24 ins. above ground, firmly set in ground and mound of stone, with brass cap mkd. as described in the official record.

Continue line and measurement.

- 9.30 A point, 12 lks. S. $80\frac{1}{2}^{\circ}E.$ from angle point No. 1 of last half of 23rd mile of P.I.R. bdy., which is a small mound of stone.

True course and dist. of P.I.R. bdy. from A.P. No. 7 of the 1st half of 23rd mile to A.P. No. 1 of last half of same mile, are therefore, S. $10^{\circ}30'W.$, 9.30 chs., and the $22\frac{1}{2}$ mile mon. is in proper alinement bet. the angle points.

From A.P. No. 1 of last half of 23rd mile of P.I.R. bdy.

S. $25^{\circ}30'W.$, on random line, on part of last half of 23rd mile of P.I.R. bdy.

Along crest of Pozo Verde Mountains, ascending.

- 7.15 A point 85 lks. S. $64\frac{1}{2}^{\circ}E.$, from angle point No. 2 of the last half of 23rd mile of P.I.R. bdy. which is a small mound of stone.

True course and dist. of P.I.R. bdy. from A.P. No. 1 to A.P. No. 2 of last half of 23rd mile, are therefore S. $32^{\circ}15'W.$; 7.20 chs.

Thence continue retracement thru angle points Nos. 3 and 4 to angle point No. 5 and find that the courses and dists. beyond angle point No. 2 agree with the official record.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, a few oaks and junipers.

Undergrowth, scattering scrub oak and catclaw.

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

BOOK 400

3.

Chains

The subdivision lines of secs. 1, 12, 13 and the southeast quarter of T. 20 S., R. 7 E. were surveyed by F.B. Jacobs, U.S. Deputy Surveyor in 1902 and there is no record of a retracement or resurvey of any part of same, nor of the survey of any additional subdivision lines of said township.

The following notes describe a resurvey of those subdivision lines which are contiguous to the unsurveyed portion of the township.

Retracement for Resurvey

From true point for std. cor. of secs. 33 and 34, on the S. bdy. of the Tp. (4th. Std. Par. S.)

N. $0^{\circ}02'W.$, on random line, bet. secs. 33 and 34 ($S. \frac{1}{2}$).

40.02 A point 7 lks. E. of the $\frac{1}{2}$ sec. cor.

True course and dist. of $S. \frac{1}{2}$ of line bet. secs. 33 and 34 are therefore N. $0^{\circ}08'W.$, 40.02 chs.

Thence

N. $0^{\circ}02'W.$ on random line, bet. secs. 33 and 34 ($N. \frac{1}{2}$).

39.90 A point 6 lks. W. of the cor. of secs. 27, 28, 33 and 34.

True course and dist. of $N. \frac{1}{2}$ of line bet. secs. 33 and 34 are therefore N. $0^{\circ}03'E.$, 39.90 chs.

Resurvey.

The true point for std. cor. of secs. 33 and 34, on S. bdy. of the Tp., is in a wash 20 lks. wide, course SE. and is therefore witnessed 70 lks. E. by a granite stone 8x10x6 ins. above ground, firmly set, marked and witnessed as described in the official record.

Reconstruct this W.C. mon. as follows:

Alongside the E. side of the stone, set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bedrock and in a mound of stone to top, for witness cor. to std. cor. of secs. 33 and 34, with brass cap marked

SC

T20S	R7E
W	S33 S34
C	S4
T21S	R7E

1899
1938

From true point for cor.,

N. $0^{\circ}08'W.$ on true line, bet. secs. 33 and 34 ($S. \frac{1}{2}$).

Over rolling land, thru scattering timber and undergrowth.

Ascend gradually over S. slope.

0.19 Fence, bears NW. and SE.

13.32 Low spur, slopes SE. Desq. 17 ft. over NE. slope.

15.36 Wash, 30 lks. wide, course SE. Asc. 34 ft. over S. slope.

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

4.

Chains	
18.22	Ridge, bears E. and W.; desc. 30 ft. over N. slope.
20.95	Gully, course E.; asc. 38 ft. over SE. slope.
25.00	Spur slopes NE.; desc. 69 ft. over N. slope.
34.03	Wash, 10 lks. wide, course SE.; asc. 50 ft. over SW. slope to
40.02	Ridge bears NW. and SE. Intersect the $\frac{1}{4}$ sec. cor., which is a granite stone 6x12x6 ins. above ground, mkd. $\frac{1}{4}$ S. on W. face, firmly set, and witnessed by pits N. and S. and mound of earth W. of cor.
	Reconstruct this cor. monument as follows:
	Alongside the E. side of the old stone, set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 1 ft. high, around post, for $\frac{1}{4}$ sec. cor. of secs. 33 and 34, with brass cap marked
	$\frac{1}{4}$ S33 S34 1902 1938
	No bearing trees available.
	Thence
	N. $0^{\circ}03'E.$, on true line, bet. secs. 33 and 34. (N. $\frac{1}{4}$).
	Over rolling land, thru scattering timber and undergrowth.
	Desc. 36 ft. over NE. slope.
9.80	Wash, 20 lks. wide, course SE.; asc. 42 ft. over SW. slope.
13.45	Ridge, bears E. and W.; desc. 47 ft. over NW. slope.
17.95	Wash, 30 lks. wide, course NE.; asc. 15 ft. over SE. slope.
20.50	Point of spur, slopes E.; desc. 9 ft. over NE. slope.
22.31	Wash, 10 lks. wide, course SE.; asc. 61 ft. over SW. slope.
27.50	Ridge, bears NW. and SE.; desc. 39 ft. over NE. slope.
30.74	Gully, course E.; asc. 50 ft. over SE. slope.
35.90	Spur, slopes E.; desc. 46 ft. over NE. slope to
39.90	Intersect the cor. of secs. 27, 28, 33 and 34, which is a granite stone 6x12x10 ins., above ground; marked as described in the official record, and witnessed by two of the three record bearing trees; a mesquite 8 ins. diam. N. $62\frac{1}{2}^{\circ}E.$, 45 lks. dist., and a mesquite 14 ins. diam. N. $29^{\circ}W.$, 112 lks. dist., both properly marked, and a mound of stone W. of cor. Find no trace of the record bearing tree SE. of cor.
	Reconstruct this cor. monument as follows:
	Alongside the E. side of the stone, set an iron post, 3 ft.

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

BOOK 5.

Chains long, 2 ins. in diam., 22 ins. in the ground to bed rock, and in a mound of stone to top, for cor. of secs. 27, 28, 33 and 34, with brass cap marked

T20S	R7E
S28	S27
S33	S34

1902
1938

Land, rolling.
Soil, rocky, 3rd and 4th rates.
Timber, mesquite.
Undergrowth, scrub oak, catclaw and cacti.

Retracement for Resurvey.

N. 0°02'W., on random line, on W. bdy. of sec. 27 (S. $\frac{1}{2}$).

39.74 A point 8 lks. E. of the $\frac{1}{4}$ sec. cor.

True course and dist. of S. $\frac{1}{2}$ of W. bdy. of sec. 27 are therefore N. 0°09'W., 39.74 chs.

Thence

N. 0°02'W., on random line, on W. bdy. of sec. 27 (N. $\frac{1}{2}$).

39.82 A point 16 lks. E. of the cor. of secs. 21, 22, 27 and 28.

True course and dist. of N. $\frac{1}{2}$ of W. bdy. of sec. 27 are therefore N. 0°16'W., 39.82 chs.

Resurvey.

From the cor. of secs. 27, 28, 33 and 34.

N. 0°09'W., on true line, on W. bdy. of sec. 27 (S. $\frac{1}{2}$).

Over rolling land, thru scattering timber and undergrowth.

Desc. 35 ft. over NE. slope.

1.75 Gulch, course E.; asc. 35 ft. over S. slope.

5.44 Spur, slopes E.; desc. 78 ft. over NE. slope.

13.38 A point from which a windmill bears N. 60°W., 3.50 chs. dist.

13.74 Road, bears E. and W.

15.79 Wash, 30 lks. wide, course SE.; asc. 27 ft. over SW. slope.

18.34 Spur, slopes SE.; desc. 23 ft. over NE. slope.

20.90 Wash, 10 lks. wide, course SE.; asc. 57 ft. over S. slope.

32.04 Top of rocky hill, bears E. and W.; desc. 15 ft. over N. slope.

35.84 Gully, course SE.; asc. 18 ft. over SW. slope to

39.74 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 27 and 28, which is a granite stone 6x10x6 ins. above ground, marked $\frac{1}{4}$ S. on W. face, firmly set, and witnessed by a mound of stone W. of cor. No trace of the record pits N. and

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

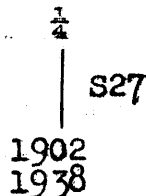
6.

Chains

S., or the mesquite bearing tree NE. of cor.

Reconstruct this cor. monument with altered reference as follows:

Alongside the E. side of the stone, set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 16 ins. high, around post, for $\frac{1}{4}$ sec. cor. of sec. 27 only, with brass cap marked



from which

A mesquite, 12 ins. diam., bears S. 62°E., 275 lks. dist., marked $\frac{1}{4}$ S27 BT.

No other bearing tree available.

Destroy old mound of stone W. of cor.

Thence

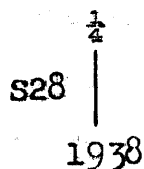
N. 0°16'W., on true line, on W. bdy. of sec. 27 (N. $\frac{1}{2}$).

Over rolling and mountainous land, thru scattering timber and undergrowth.

Asc. slightly over SW. slope to

0.26 (40.00 chs. northerly from cor. of secs. 27, 28, 33 and 34).

Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 14 ins. high around post, for $\frac{1}{4}$ sec. cor. of sec. 28 only, with brass cap marked



from which

A mesquite, 10 ins. diam., bears S. 20°W., 274 lks. dist., marked $\frac{1}{4}$ S28 BT.

No other bearing tree available.

Ascend 66 ft. over SW. slope.

12.05 Ridge, bears NW. and SE.; desc. 97 ft. over NE. slope.

19.00 Wash, 15 lks. wide, course SE.; asc. 51 ft. over SW. slope.

24.82 Spur, slopes SE.; desc. 34 ft. over N. slope.

28.47 Wash, 30 lks. wide, course SE.; asc. 84 ft. over SW. slope.

33.80 Spur, slopes SE.; desc. 45 ft. over NE. slope.

37.94 Wash; 10 lks. wide, course SE.; asc. 45 ft. over SW. slope to

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

BOOK 2071 7.

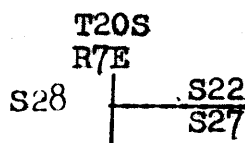
Chains

39.82

Intersect the original cor. of secs. 21, 22, 27 and 28, which is a granite stone 6x10x14 ins., above ground, firmly set, marked and witnessed as described in the official record.

Reconstruct this cor. monument with altered reference as follows:

Alongside the E. side of the stone, set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 12 ins. high, around post, for cor. of secs. 22 and 27 only, with brass cap marked



1902
1938

from which

A mesquite, 5 ins. diam., bears S. $33\frac{1}{2}^{\circ}$ E., 171 lks. dist., marked BT. only.

No other bearing tree available.

Destroy old mound of stone W. of cor.

Land, rolling and mountainous.
Soil, rocky, 3rd and 4th rates.
Timber, mesquite.
Undergrowth, scrub oak, catclaw and cacti.

Retracement for Resurvey.

From cor. of secs. 22 and 27,

N. $0^{\circ}02'W.$, on random line, on W. bdy. of sec. 22 (S. $\frac{1}{2}$).

40.48 A point 38 lks. W. of the $\frac{1}{4}$ sec. cor.

True course and dist. of S. $\frac{1}{2}$ of W. bdy. of sec. 22 are therefore N. $0^{\circ}31'E.$, 40.48 chs.

Thence

39.98 N. $0^{\circ}02'W.$, on random line, bet. secs. 21 and 22 (N. $\frac{1}{2}$).
A point 9 lks. E. of the cor. of secs. 15, 16, 21 and 22.
True course and dist., of N. $\frac{1}{2}$ of line bet. secs. 21 and 22 are therefore N. $0^{\circ}10'W.$, 39.98 chs.

Resurvey.

From cor. of secs. 22 and 27,

N. $0^{\circ}31'E.$, on true line, on W. bdy. of sec. 22 (S. $\frac{1}{2}$).

Over mountainous land, thru scattering timber and undergrowth.

Asc. 7 ft. over SW. slope to

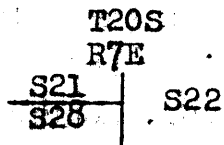
0.44 (80.00 chs. northerly from cor. of secs. 27, 28, 33 and 34.)
Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

8.

Chains

the ground to bedrock, and raise a mound of stone 3 ft. base, 12 ins. high, around post, for cor. of secs. 21 and 28 only, with brass cap marked



1938

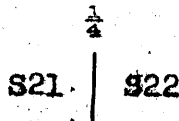
from which

A mesquite, 14 ins. in diam., bears S. 7°W., 80 lks. dist., marked T20S R7E S28 BT.

No other bearing tree available.

Asc. 93 ft. over SW. slope.

- 5.88 Top of ascent on W. side of low knoll in ridge bearing NW. and SE. Desc. 17 ft. over NW. slope to
- 8.85 Desc. 108 ft. over NE. slope.
- 16.06 Gulch, course SE.; asc. 41 ft. over SW. slope.
- 20.98 Low saddle in spur, sloping E.; desc. 36 ft. over NW. slope.
- 24.45 Gully, 10 lks. wide, course NE.; asc. 6 ft. over SE. slope.
- 25.50 Point of spur, slopes E.; desc. 17 ft. over NE. slope.
- 29.04 Wash, 40 lks. wide, course SE.; asc. 57 ft. over S. slope.
- 40.18 Spur, slopes SE.; asc. slightly over E. slope to
- 40.48 (40.04 chs. N. 0°31'E. from cor. of secs. 21 and 28). Intersect the original $\frac{1}{4}$ sec. cor. of secs. 21 and 22, which is a granite stone, 6x8x14 ins. above ground, marked $\frac{1}{4}$ S. on W. face, firmly set, and witnessed by one of the two record bearing trees. Reconstruct this $\frac{1}{4}$ sec. cor. monument as follows:
Alongside the W. side of stone, set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 14 ins. high around post, for $\frac{1}{4}$ sec. cor. of secs. 21 and 22, with brass cap marked

1902
1938

from which

A mesquite, 10 ins. diam., bears N. 27°W., 85 lks. dist., marked $\frac{1}{4}$ S21 B.T. (original).

No trace of the record oak bearing tree NE. of cor. can be found.

Establish a new bearing tree as follows:

An oak, 12 ins. diam., bears S. 89°E., 185 lks. dist., marked $\frac{1}{4}$ S22 .BT.

Thence

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

BOOK 411
9.

Chains

N. $0^{\circ}10'W.$, on true line, bet. secs. 21 and 22 ($N.\frac{1}{2}$).

Over rolling and mountainous land, thru scattering timber and undergrowth.

Asc. gradually over E. slope of spur.

2.98 Enter gully, course SE. from N.; asc. gradually in gully to

3.60 Leave gully course S. and SE. from NW. near head; asc. 42 ft. over SW. slope to

8.38 Low saddle, bears NW. and SE.; asc. 10 ft. in saddle to

12.95 Ridge, bears SE. and W.; desc. 73 ft. over NE. slope.

21.43 Road, bears NW. and SE.

22.04 Wash, 10 lks. wide, course SE.; asc. 17 ft. over S. slope.

22.70 Spur. slopes SE.; desc. 30 ft. over NE. slope.

28.85 Wash, 10 lks. wide, course SE.; asc. 28 ft. over SW. slope.

30.98 Spur, slopes SE.; asc. gradually over E. slope.

36.00 Gully, course SE.; asc. 34 ft. over SW. slope to

39.98 Intersect the original cor. of secs. 15, 16, 21 and 22, which is a granite stone $12 \times 16 \times 24$ ins. above ground, in place, marked as described in the official record, and witnessed by mound of stone S. of cor. No bearing trees.

Reconstruct this cor. monument as follows:

Alongside E. side of stone, set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bedrock, and raise a mound of stone 4 ft. base, 16 ins. high, around post, for cor. of secs. 15, 16, 21 and 22, with brass cap marked

T20S	R7E
S16	S15
S21	S22

1902
1938

No bearing trees available.

Land, rolling and mountainous.

Soil, rocky, 3rd & 4th rates.

Timber, mesquite and oak.

Undergrowth, scrub oak, catclaw and cacti.

Retracement for Resurvey.

From cor. of secs. 15, 16, 21 and 22.

S. $89^{\circ}54'E.$, on random line, bet. secs. 15 and 22 ($W.\frac{1}{2}$).39.90 A point 2 lks. S. of the $\frac{1}{4}$ sec. cor.True course and dist. of $W.\frac{1}{2}$ of line bet. secs. 15 and 22 are therefore N. $89^{\circ}56'W.$, 39.90 chs.

Thence

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

10

Chains	S. $89^{\circ}54'E.$, on random line, bet. secs. 15 and 22 ($E.\frac{1}{2}$).						
40.04	A point 4 lks. S. of the cor. of secs. 14, 15, 22 and 23. True course and dist. of $E.\frac{1}{2}$ of line bet. secs. 15 and 22 are therefore N. $89^{\circ}57'W.$, 40.04 chs.						
<u>Resurvey.</u>							
The original cor. of secs. 14, 15, 22 and 23 is a granite stone 6x6x6 ins., above ground, firmly set, marked as described in the official record, and witnessed by a mound of stone W. of cor., and the original bearing tree a mesquite 12 ins. diam., N. $24^{\circ}W.$, 67 lks. dist., marked T20S R7E S15 BT.							
Reconstruct this cor. monument as follows: Remove the marked stone, and in same place set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bedrock, reset the marked stone alongside, and raise a mound of stone 3 ft. base, 16 ins. high, around post, for cor. of secs. 14, 15, 22 and 23, with brass cap marked.							
<table style="margin: auto;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">T20S</td> <td style="padding: 0 5px;">R7E</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S15</td> <td style="padding: 0 5px;">S14</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S22</td> <td style="padding: 0 5px;">S23</td> </tr> </table>		T20S	R7E	S15	S14	S22	S23
T20S	R7E						
S15	S14						
S22	S23						
1902 1938							
and in addition to the							
original accessories establish four bearing trees as follows:							
A mesquite, 6 ins. diam., bears N. $72^{\circ}W.$, 84 lks. dist., marked T20S R7E S15 BT.							
A mesquite, 4 ins. diam., bears N. $11^{\circ}E.$, 44 lks. dist., marked BT only.							
A mesquite, 6 ins. diam., bears S. $15^{\circ}E.$, 47 lks. dist., marked T20S R7E S23 BT.							
A mesquite, 6 ins. diam., bears S. $25^{\circ}W.$, 30 lks. dist., marked T20S R7E S22 BT.							
Thence							
N. $89^{\circ}57'W.$, on true line, bet. secs. 15 and 22 ($E.\frac{1}{2}$).							
Over rolling and mountainous land thru scattering timber and dense undergrowth. Desc. slightly over SW. slope.							
0.40	Wash, 10 lks. wide, course SE.; asc. 10 ft. over NE. slope.						
3.10	Spur, slopes SE.; desc. 18 ft. over SW. slope.						
5.08	Wash, 10 lks. wide, course SE.; asc. 56 ft. over NE. slope.						
16.70	Ridge, bears NW. and SE.; desc. 74 ft. over SW. slope.						
19.36	A point from which a windmill bears S. $10\frac{1}{2}^{\circ}E.$, about 18 chs. dist.						
From windmill a water tank bears NW. about 50 lks. dist.							
29.51	Gold Mine Wash, 100 lks. wide, course SE. from NE. road, bears NE. and SE., and mouth of gully. Asc. 25 ft. in bottom of gully, course E.						

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

BOOK 11

Chains

37.60 Leave bottom of gully, course E. from NW.; asc. 23 ft. over NE. slope to

40.04 Intersect original $\frac{1}{4}$ sec. cor. of secs. 15 and 22, which is a granite stone, 8x6x10 ins. above ground, marked $\frac{1}{4}$ S. on N. face, and witnessed by the two original oak bearing trees.

Reconstruct this cor. monument as follows:

Alongside the E. side of the stone, set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, and raise a mound of stone 4 ft. base, 20 ins. high, around post, for $\frac{1}{4}$ sec. cor. of secs. 15 and 22, with brass cap marked

$$\frac{1}{4} \frac{S15}{S22}$$

1902
1938

from which, the

original bearing trees:

An oak, 14 ins. diam., bears N. 3° W., 89 lks. dist., marked $\frac{1}{4}$ S15 BT.

An oak, 18 ins. diam., bears South, 19 lks. dist., marked $\frac{1}{4}$ S22 BT.

Thence

N. 89°56'W., on true line, bet. secs. 15 and 22 (W. $\frac{1}{2}$).

Over mountainous and rolling land, thru scattering timber and dense undergrowth. Asc. 64 ft. over NE. slope.

6.00 Ridge, bears NW. and SE.; asc. 29 ft. to

11.30 Spur, slopes S.; desc. 53 ft. over SW. slope.

29.55 Wash, 20 lks. wide, course SE.; asc. 81 ft. over NE. slope.

38.75 Spur, slopes SE.; desc. 10 ft. over SW. slope to

39.90 Intersect the cor. of secs. 15, 16, 21 and 22.

Land, rolling and mountainous.
Soil, gravelly and rocky, 3rd and 4th rate.
Timber, oak and mesquite.
Undergrowth, scrub oak, catclaw and cacti.

Retracement for Resurvey:

From cor. of secs. 14, 15, 22 and 23,

N. 89°46' E., on random line, bet. secs. 14 and 23 (W. $\frac{1}{2}$).

39.86 A point 5 lks. S. of the $\frac{1}{4}$ sec. cor.

True course and dist. of W. $\frac{1}{2}$ of line bet. secs. 14 and 23 are therefore S. 89°42'W., 39.86 chs.

Thence

N. 89°46'E., on random line, bet. secs. 14 and 23 (E. $\frac{1}{2}$).

39.84 A point 20 lks. S. of the original cor. of secs. 13, 14, 23 and 24.

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

12

Chains

True course and dist. of E. $\frac{1}{2}$ of line bet. secs. 14 and 23 are therefore S. $89^{\circ}29'W.$, 39.84 chs.

Resurvey.

The original cor. of secs. 13, 14, 23 and 24 is a granite stone 6x6x14 ins. above ground, marked with 3 notches on S. edge and 1 notch on E. edge, firmly set, and witnessed by a mound of stone E. and the two record mesquite bearing trees.

Reconstruct this cor. monument as follows:

Alongside E. side of stone, set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 12 ins. high, around post, for cor. of secs. 13, 14, 23 and 24, with brass cap marked

T20S	R7E
S14	S13
S23	S24

1902
1938

from which, the original

bearing trees:

A mesquite, 20 ins. diam., bears N. $43^{\circ}E.$, 215 lks. dist., marked T20S R7E S13 BT.

A mesquite, 10 ins. diam., bears N. $13\frac{1}{2}^{\circ}W.$, 243 lks. dist., marked T20S R7E S14 BT.

No other bearing trees available.

Thence

S. $89^{\circ}29'W.$, on true line, bet. secs. 14 and 23 (E. $\frac{1}{2}$).

Over rolling land, thru scattering timber and undergrowth.

Desc. slightly to

- 0.10 Wash, 10 lks. wide, course SE.; asc. 69 ft. over NE. slope.
- 9.70 Spur, slopes SE.; desc. 53 ft. over SW. slope.
- 22.20 Wash, 10 lks. wide, course SE.; asc. 20 ft. over E. slope.
- 27.80 Spur, slopes SE.; desc. 9 ft. over SW. slope.
- 28.62 Draw, 10 lks. wide, course SE.; asc. 61 ft. over NE. slope.
- 38.14 Spur, slopes SE.; desc. 9 ft. over SW. slope to
- 39.84 Intersect original $\frac{1}{4}$ sec. cor., which is a granite stone 6x6x18 ins., loosely set, marked $\frac{1}{4}S.$ on N. face, and witnessed by the record bearing tree SW. No trace of the record bearing tree NW. of cor. can be found.
Reconstruct this cor. monument as follows:
Remove the marked stone, and in same place set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bedrock, with the original marked stone reset alongside, and raise a mound of stone 4 ft. base, 22 ins. high, around post, for $\frac{1}{4}$ sec. cor. of secs. 14 and 23, with brass cap marked

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

BOOK 1392

13

Chains	
	$\frac{1}{4} \frac{S14}{S23}$ <p>1902 1938</p> <p>from which</p> <p>A mesquite, 10 ins. diam., bears S. 64°W., 176 lks. dist., marked $\frac{1}{4}$ S23 BT (original bearing tree).</p> <p>A mesquite, 6 ins. diam., bears S. 2$\frac{1}{2}$°W., 53 lks. dist., marked $\frac{1}{4}$ S23 BT (new bearing tree).</p> <p>No bearing tree available in sec. 14.</p> <p>A tin shed bears S. 12° W., about 20 chs. dist.</p> <p>From $\frac{1}{4}$ sec. cor.,</p> <p>S. 89°42'W. on true line, bet. secs. 14 and 23 (W.$\frac{1}{2}$).</p> <p>Over rolling land, thru scattering timber and undergrowth.</p> <p>Desc. 30 ft. over SW. slope.</p> <p>5.48 Wash, 20 lks. wide, course SE.; asc. 12 ft. over SE. slope.</p> <p>8.00 Low spur, slopes SE.; desc. 6 ft. over SW. slope.</p> <p>10.19 Wash, 20 lks. wide, course SE.; enter mountainous land. Asc. 110 ft. over NE. slope.</p> <p>25.06 Ridge, bears NW. and SE.; desc. 72 ft. over SW. slope to</p> <p>39.86 Intersect the cor. of secs. 14, 15, 22 and 23.</p> <p>Land, rolling and mountainous. Soil, rocky, 4th rate. Timber, mesquite. Undergrowth, scrub oak, catclaw and cacti.</p>
	<p style="text-align: center;"><u>Retracement for Resurvey.</u></p> <p>From the cor. of secs. 13, 14, 23 and 24.</p> <p>N. 0°01'W., on random line, bet. secs. 13 and 14 (S.$\frac{1}{2}$).</p> <p>39.76 A point 19 lks. W. of the original $\frac{1}{4}$ sec. cor.</p> <p>True course and dist. of S.$\frac{1}{2}$ of line bet. secs. 13 and 14 are therefore N. 0°15'E., 39.76 chs.</p> <p>Thence</p> <p>N. 0°01'W., on random line, bet. secs. 13 and 14 (N.$\frac{1}{2}$).</p> <p>39.95 A point 9 lks. E. of original cor. of secs. 11, 12, 13 and 14.</p> <p>True course and dist. of N.$\frac{1}{2}$ of line bet. secs. 13 and 14 are therefore N. 0°09'W., 39.95 chs.</p>
	<p style="text-align: center;"><u>Resurvey.</u></p> <p>From cor. of sees. 13, 14, 23 and 24,</p> <p>N. 0°15'E., on true line, bet. secs. 13 and 14 (S.$\frac{1}{2}$).</p>

BOOK

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

14

Chains	
	Over rolling and mountainous land, thru scattering timber and undergrowth. Asc. slightly over SW. slope.
3.10	Desc. 5 ft. over NE. slope.
4.80	Wash, 30 lks. wide, course SE.; asc. 50 ft. over SW. slope.
7.60	Spur, slopes SE.; desc. 10 ft. over NE. slope.
13.60	Gully, course SE.; asc. 138 ft. over SE. slope.
26.00	Top of ascent on E. side of Knoll, the top of which bears 3 chs. W. Desc. 120 ft. over NE. slope.
37.41	Agua, Escondido Wash, 40 lks. wide, course SE.; asc. 11 ft. over SW. slope to $\frac{1}{4}$ sec. cor.
38.31	Road, bears NW. and SE.
39.76	Intersect the original $\frac{1}{4}$ sec. cor., which is a granite stone 6x6x14 ins. above ground, mkd. $\frac{1}{4}$ S. on W. face, and witnessed by one of the two record bearing trees. Reconstruct this cor. monument as follows: Remove the old marked stone, and in same place set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bedrock, with marked stone reset alongside, and raise a mound of stone 4 ft. base, 18 ins. high, around post, for $\frac{1}{4}$ sec. cor. of secs. 13 and 14, with brass cap marked
	$\frac{1}{4}$ S14 S13 1902 1938 from which
	A mesquite, 30 ins. in diam., bears S. 22 $\frac{3}{4}$ °W., 44 lks. dist., marked $\frac{1}{4}$ S14 BT. (original bearing tree).
	A mesquite, 6 ins. in diam., bears S. 38°E., 124 lks. dist., marked $\frac{1}{4}$ S13 BT (new bearing tree).
	Find no trace of the mesquite tree of record S. 15 $\frac{1}{2}$ °E., 81 lks. dist.
	Thence
	N. 0°09'W., on true line, bet. secs. 13 and 14 (N. $\frac{1}{2}$).
	Over rolling and mountainous land, thru scattering timber and undergrowth. Asc. 68 ft. over SW. slope.
10.26	Fence cor., from which fence extends SE. and N. Thence along fence
15.00	Ridge, bears NW. and SE.; desc. 13 ft. over NE. slope.
20.75	Gully, course SE.; asc. 84 ft. over S. slope.
30.00	Spur, slopes SE.; desc. 70 ft. over NE. slope.
36.07	Gully, course SE.; asc. 48 ft. over SW. slope to
39.95	Intersect original cor. of secs. 11, 12, 13 and 14, which is a granite stone 6x6x18 ins. above ground, marked as described in the official record, and firmly set in ground and mound of stone.

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

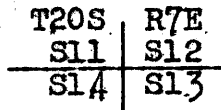
BOOK 25

Chains

No trace of accessories.

Reconstruct this cor. monument as follows:

Remove the marked stone, and in the same place set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bedrock, reset the marked stone alongside, and raise a mound of stone 3 ft. base, 14 ins. high, around post, for cor. of secs. 11, 12, 13 and 14, with brass cap marked



1902
1938

No bearing trees available.

This cor. is set at fence cor. from which wire fences extend E. and S.

Land, rolling and mountainous.
Soil, rocky, 3rd and 4th rates.
Timber, mesquite.
Undergrowth, scrub oak, catclaw and cacti.

Retracement for Resurvey.

From cor. of secs. 11, 12, 13 and 14.

N. 0°01'W. on random line, bet. secs. 11 and 12 (S. 1/2).

40.08 A point 2 lks. E. of the 1/4 sec. cor.

True course and dist. of S. 1/2 of line bet. secs. 11 and 12 are therefore, N. 0°03'W., 40.08 chs.

Thence

N. 0°01'W., on random line, on W. bdy. of sec. 12 (N. 1/2).

40.61 A point 1 lk. W. of orig. cor. of secs. 1, 2, 11 and 12.

True course and dist. of N. 1/2 of W. bdy. of sec. 12 are therefore North, 40.61 chs.

Resurvey.

From cor. of secs. 11, 12, 13 and 14,

N. 0°03'W., on true line, bet. secs. 11 and 12 (S. 1/2).

Over mountainous land, thru scattering timber and undergrowth. Asc. 38 ft. over SW. slope.

2.50 Spur, slopes SE.; desc. 73 ft. over NE. slope.

8.03 Gulch, 10 lks. wide, course SE.; asc. 33 ft. over SW. slope.

12.40 Spur, slopes SE.; desc. 22 ft. over NE. slope.

13.89 Gulch, 15 lks. wide, course SE.; asc. 85 ft. over SW. slope.

26.00 Spur, slopes SE.; asc. 20 ft. to

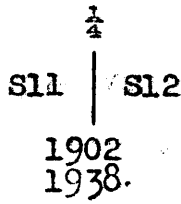
16.

Chains

30.50 Ridge, bears E. and W.; desc. 75 ft. over N. slope.

35.52 Wash, 60 lks. wide, course NE. for 2 chs. thence SE. Asc. 62 ft. over S. slope to

40.08 Intersect the original 1/4 sec. cor., which is a granite stone 8x12x12 ins. above ground, marked 1/4 S on N. face, firmly set, and witnessed by a mound of stone W. of cor. Reconstruct this cor. monument as follows: Alongside E. side of stone, set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 12 ins. high, around post, for 1/4 sec. cor. of secs. 11 and 12, with brass cap marked



from which

A mesquite, 14 ins. diam., bears S. 24°E., 82 lks. dist. marked 1/4 S12 BT.

A mesquite, 16 ins. diam., bears N. 85°W., 151 lks. dist., marked 1/4 S11 BT.

Thence

North, on true line, on W. bdy. of sec. 12 (N. 1/2).

Over mountainous land, thru scattering timber and undergrowth. Ascend 119 ft. over SE. slope.

4.35 Fence cor., from which wire fence extends SE. and N. Thence along fence.

8.30 Granite outcrop bears NE. and SW.; asc. 20 ft. over W. slope.

16.60 SE. end of low saddle; desc. 23 ft. over NE. slope.

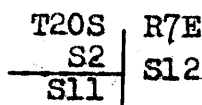
17.58 Fence corner; a wire fence extends N. 31°W. and S.

20.47 Gully, course E.; asc. 115 ft. over SE. slope to

30.60 Gully, course SE.; asc. 110 ft. over SE. slope.

39.45 Spur, slopes SE.; desc. 8 ft. over NE. slope to

40.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 12 ins. high, around post, for cor. of secs. 2 and 11 only, with brass cap marked



1938

No bearing trees available.

Desc. 12 ft. over NE. slope to

40.61 Intersect original cor. of secs. 1, 2, 11 and 12, which is

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

BOOK

4151

17

Chains

a granite stone 6x14x12 ins., above ground, marked as described in the official record and witnessed by a mound of stone W. of cor. No bearing trees.

Reconstruct this cor. monument with altered reference as follows:

Remove the marked stone, and in same place set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bedrock, resetting the marked stone in ground alongside, and raise a mound of stone 3 ft. base, 10 ins. high, around post, for cor. of secs. 1 and 12, with brass cap marked

T20S	R7E
S2	S1
	S12

1902
1938

No bearing trees available.
Destroy the mound of stone W. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, mesquite and oak.
Undergrowth, scrub oak, catclaw and cacti.

Retracement for Resurvey.

From cor. of secs. 1 and 12.

N. 0°01'W., on random line, on W. bdy. of sec. 1 (S. $\frac{1}{2}$).

39.93 A point 45 lks. E. of original $\frac{1}{4}$ sec. cor.
True course and dist. of S. $\frac{1}{2}$ of W. bdy. of sec. 1 are therefore

N. 0°40'W., 39.93 chs.

Thence

N. 0°01'W., on random line on W. bdy. of sec. 1 (N. $\frac{1}{2}$).

40.77 A point 19 lks. W. of the original closing cor. of secs. 1 and 2 on the N. bdy. of the Tp.
True course and dist. of N. $\frac{1}{2}$ of W. bdy. of sec. 1 are therefore

N. 0°15'E., 40.77 chs.

Resurvey.

From cor. of secs. 1 and 12,

N. 0°40'W., on true line, on W. bdy. of sec. 1 (S. $\frac{1}{2}$).

Over mountainous land, thru scattering timber and undergrowth. Desc. 5 ft. over NE. slope.

0.20 Wash, 20 lks. wide, course E. for about 2 chs. thence NE.
Asc. 74 ft. over S. slope.

4.30 Point of spur, slopes SE.; desc. 20 ft. over NE. slope.

9.10 Gully, course SE.; asc. 124 ft. over SW. slope.

17.45 Spur, slopes SE.; desc. 35 ft. over NE. slope to

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

18

Chains

19.40 Head of gulch, course NE.; desc. 225 ft. over E. slope.

33.08 Wire fence, bears N. 61°E. and S. 61°W., on spur sloping NE.; desc. 131 ft. over NW. slope.

37.35 Gully, course NE.; desc. 30 ft. over E. slope to

39.39 (40.00 chs. northerly from cor. of secs. 2 and 11).
Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 12 ins. high, around post, for $\frac{1}{4}$ sec. cor. of sec. 2 only, with brass cap marked
$$\begin{array}{c} \frac{1}{4} \\ | \\ S2 \\ | \\ 1938 \end{array}$$

from which

An oak, 10 ins. diam., bears N. 5°W., 38 lks. dist., marked $\frac{1}{4}$ S2 BT.An oak, 6 ins. diam., bears N. 44°W., 142 lks. dist., marked $\frac{1}{4}$ S2 BT.

A large, high rock, bears S. 38°W.

Desc. slightly over E. slope to

39.93 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 1 and 2, which is a granite stone 8x12x15 ins., set 12 ins. in the ground, marked $\frac{1}{4}$ S on W. face, and witnessed by one of the two record bearing trees.

Reconstruct this cor. monument with altered reference as follows:

Remove the stone and in same place set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bedrock with the marked stone reset alongside, and raise a mound of stone, 3 ft. base, 12 ins. high, around post, for $\frac{1}{4}$ sec. cor. of sec. 1 only with brass cap marked
$$\begin{array}{c} \frac{1}{4} \\ | \\ S1 \\ | \\ 1902 \\ 1938 \end{array}$$

from which

An oak, 14 ins. in diam., bears N. 82°E., 29 lks. dist., marked $\frac{1}{4}$ S1 BT. (original bearing tree).An oak, 14 ins. in diam., bears S. 50°E., 81 lks. dist., marked $\frac{1}{4}$ S1 BT. (new bearing tree).

Thence

N. 0°15'E., on true line, on W. bdy. of sec. 1 (N. $\frac{1}{2}$).

Over mountainous land thru scattering timber and undergrowth. Desc. 86 ft. over E. slope.

4.50 Spur, slopes NE.; desc. 58 ft. over NW. slope.

8.37 Gulch, course NE.; asc. 40 ft. over SE. slope.

12.36 Spur, slopes NE.; desc. 186 ft. over N. slope to

Resurvey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

BOOK 4151

19

Chains

21.91 Mouth of wash, 20 lks. wide, course NE. Thence across nearly level bottom land.

22.11 Main wash, 100 lks. wide, course SE. Road, bears NW. and SE. Continue over bottom land.

26.91 Leave bottom land, and reenter mountainous land. Asc. 59 ft. over SW. slope.

28.40 Old road, bears E. and W.

33.16 Spur, slopes SE.; asc. gradually over E. slope to

36.64 Desc. 10 ft. over NE. slope.

37.42 Gully, course SE.; asc. 20 ft. over SE. slope to

40.77 Intersect the original closing cor. of secs. 1 and 2, which is a granite stone 6x8x18 ins., set 15 ins. in the ground, marked as described in the official record, and witnessed by a mound of stone S. of cor. Reconstruct this cor. monument as follows: Remove the marked stone, and in same place set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in the ground to bedrock, with the marked stone reset alongside and raise a mound of stone, 3 ft. base, 14 ins. high, around post, for closing cor. of secs. 1 and 2, with brass cap marked

T19S	R7E
S36	
C	C
S2	S1
T20S	R7E

1902
1938

No bearing trees available.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak and mesquite.
Undergrowth, scrub oak, catclaw and cacti.

Survey of Part of the Subdivision lines of T. 20 S.,
R. 7 E.

The following notes describe the survey of the subdivision lines of the unsurveyed portion of the township outside the Papago Indian Reservation, situated East of the East boundary of the reservation. Prior to beginning the survey of the subdivision lines, survey a Sectional Correction Line due West, bet. secs. 11 and 14, setting temporary corners at 40 ch. intervals.

From temp. cor. of secs. 10, 11, 14 and 15,
S. 0°01'E., on random line, bet. secs. 14 and 15.

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

80.31 Intersect E. and W. line 30 lks. W. of the original cor. of secs. 14, 15, 22 and 23,

Thence

Survey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

20.

Chains	
	N. 0°01'W., on true line, bet. secs. 14 and 15.
	Over rolling and mountainous land, thru scattering timber and undergrowth. Asc. 76 ft. over SW. slope.
18.60	Point of short spur, slopes W.; desc. 35 ft. over NW. slope.
21.48	Gully, course SW.; asc. 34 ft. over SE. slope.
24.60	Short spur, slopes SW.; asc. 62 ft. over W. and SW. slopes.
30.70	Granite rock 8 ft. high, on line, and on top of ridge, bearing NW. and SE. Asc. gradually over E. slope.
35.66	Asc. 15 ft. over SE. slope to
40.31	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 14 and 15, with brass cap marked
	$\frac{1}{4}$ S15 S14 1938
	from which
	A mesquite limb, bears S. 5° W., 30 lks. dist., marked $\frac{1}{4}$ S BT.
	A mesquite limb, bears N. 24° E., 249 lks. dist., marked $\frac{1}{4}$ S BT.
	Asc. slightly over SE. slope to
40.50	Point of short spur, slopes E.; desc. 21 ft. over NE. slope.
44.23	Wash, 15 lks. wide, course SE and mouth of gully. Asc. 339 ft. along gully, course S.
62.95	Ridge, bears NE. and SW. joined at this point by another ridge extending SE. A windmill bears S. 49°53'W. Mine dump bears N. 32°W. Desc. 40 ft. over NW. slope.
70.82	Gully, course SW.; asc. 83 ft. over S. slope.
74.47	Point of short spur, slopes W.; desc. 20 ft. over NW. slope.
77.95	Gully, course SW. near head; asc. 77 ft. over S. slope to
80.31	Intersect the Sectional Correction Line. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bedrock, with a stone 4x4x2 ins. marked with a cross (x) deposited at base, and raise a mound of stone 3 ft. base, 12 ins. high, around post, for cor. of secs. 10, 11, 14 and 15, with brass cap marked
	T20S R7E S10 S11 S15 S14 1938
	from which
	A windmill bears S. 36°25'W.

Survey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

BOOK 4151

21

Chains

Santa Margarita Ranch house, bears S. 47°E.
 Lacina Estacada bears S. 7 $\frac{1}{2}$ °E.
 Mine dump, bears S. 23°W.
 No bearing trees available.
 The temp. cor. of secs. 10, 11, 14 and 15 bears W., 30
 lks. dist., therefore the true length of the Sectional
 Correction Line bet. secs. 11 and 14 is 79.70 chs.

Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 Timber, mesquite and oak.
 Undergrowth, scrub oak, catclaw and cacti.

From original cor. of secs. 11, 12, 13 and 14,

West, on Sectional Correction Line, bet. secs. 11 and 14.

Over mountainous land, thru scattering timber and under-
 growth. Desc. 32 ft. over SW. slope.

- 3.04 Gully, course SE.; asc. 60 ft. over E. slope.
- 8.20 Point of spur, slopes SE.; asc. 10 ft. over S. slope.
- 13.00 Head of gully, course SE.; asc. 13 ft. over E. slope.
- 14.20 Spur, slopes S. turning to SE. at about 4 chs. S.; desc.
 21 ft. over SW. slope.
- 17.22 Gully, course S. from NW.; asc. 25 ft. over NE. slope.
- 20.00 Low ridge, bears NW. and S.; and old road same bearing.
 Ridge turns to SE. at about 10 chs. S. Descend 10 ft.
 over SW. slope.
- 22.34 Wash, 10 lks. wide, course S. from W.; asc. 79 ft. in
 wash to
- 32.70 Leave wash, course E. from NW.; asc. 119 ft. over NE.
 slope.
- 33.80 Mine tunnel opening.
- 38.00 Spur, slopes SE.; asc. gradually over S. slope to
- 39.85 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in
 the ground to bedrock, with a stone 6x6x10 ins. marked
 with a cross (x) deposited at base, and raise a mound
 of stone 3 ft. base, 14 ins. high, around post, for $\frac{1}{4}$
 sec. cor. of secs. 11 and 14, with brass cap marked
- $\frac{1}{4} \frac{S11}{S14}$
- 1938
- No bearing trees available.
- Asc. 42 ft. over SE. slope.
- 43.74 Point of spur, slopes S.; desc. 127 ft. over SW. slope.
- 48.97 Aqua Escondido Wash, 20 lks. wide, course SE.; asc. 50 ft.
 over NE. slope.
- 52.00 Spur, slopes SE.; asc. 46 ft. over S. slope to gully.
- 52.83 A point from which "Aqua Escondido Spring", bears S. 48°E.
 6.70 chs. dist., which is improved by a cement tank, 15

Survey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

22.

Chains

ft. long, 6 ft. wide, 4 ft. deep, lying lengthwise across the bottom of the Aqua Escondido Wash, 30 lks. wide at this point, course SE.

57.80 Gully, course SE.; asc. 230 ft. over NE. slope.

68.05 Ridge, bears NW. and SE.; desc. 34 ft. over SW. slope.

73.02 Head of gulch, course SE.; asc. 107 ft. over SE. slope to

77.75 Thence along S. slope, descending gradually to

79.70 The cor. of secs. 10, 11, 14 and 15.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak and mesquite.
Undergrowth, scrub oak, catclaw and cacti.

From cor. of secs. 10, 11, 14 and 15.

N. 0°01'W., bet. secs. 10 and 11.

Over mountainous land, thru scattering timber and undergrowth. Asc. 116 ft. over S. slope.

4.40 Ridge, bears NE. and SW. Head of gully, course N. is about 100 lks. W. of this point. Desc. 238 ft. over NW. slope on E. side of the gully.

13.92 Same gully, course NE. from S.; asc. 37 ft. over SE. slope.

17.00 Point of spur, slopes E.; desc. 72 ft. over NE. slope.

18.90 Wash, 10 lks. wide, course E.; asc. 100 ft. over S. slope.

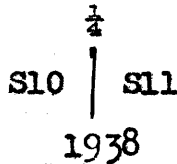
23.20 Point of spur, slopes E.; desc. 161 ft. over NE. slope.

31.03 Gulch, 10 lks. wide, course E.; asc. 47 ft. over SE. slope.

33.60 Point of spur, slopes SE.; desc. 46 ft. over NE. slope.

39.17 Wash, 20 lks. wide, course SE.; asc. 10 ft. over SW. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 14 ins. high, around post, for $\frac{1}{4}$ sec. cor. of secs. 10 and 11, with brass cap marked



from which

An oak, 8 ins. in diam., bears S. 5°W., 135 lks. dist., marked $\frac{1}{4}$ S10 BT.

An oak, 18 ins. in diam., bears S. 60°E., 39 lks. dist., marked $\frac{1}{4}$ S11 BT.

Asc. 192 ft. over SW. slope to

53.20 Thence over W. slope to saddle in ridge, bearing NE. and SW.

Survey of Part of the Subdivision lines of T. 20 S., R. 7 E.

BOOK

Chains							
59.50	Top of ascent in saddle; desc. 32 ft. over NW. slope.						
61.61	Gulch, course W.; asc. 134 ft. over SW. slope to saddle in ridge.						
73.00	Head of Gold Mine Canyon, course SW. Trail, NE. and SW.						
75.75	Saddle in ridge, bearing NW. and SE. and drift fence bears N. 85°W. and S. 85°E., with gate in same 30 lks. easterly from this point. Desc. 68 ft. over NE. slope to						
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bedrock, and raise a mound of stone 4 ft. base, 20 ins. high, around post, for cor. of secs. 2, 3, 10 and 11, with brass cap marked						
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>T20S</td> <td>R7E</td> </tr> <tr> <td>S3</td> <td>S2</td> </tr> <tr> <td>S10</td> <td>S11</td> </tr> </table>	T20S	R7E	S3	S2	S10	S11
T20S	R7E						
S3	S2						
S10	S11						
	1938						
	from which						
	A white oak, 10 ins. diam., bears N. 56°E., 130 lks. dist., marked T20S R7E S2 BT.						
	A black oak, 8 ins. diam., bears S. 23°E., 125 lks. dist., marked T20S R7E S11 BT.						
	A black oak, 10 ins. diam., bears S. 39°W., 18 lks. dist., marked T20S R7E S10 BT.						
	A black oak, 12 ins. diam., bears N. 80°W., 148 lks. dist., marked T20S R7E S3 BT.						
	Millard Peak bears N. 73°E.						
	Land, mountainous. Soil, rocky, 4th rate. Timber, oak and mesquite. Undergrowth, scrub oak, catclaw and cacti.						
	East, on random line, bet. secs. 2 and 11.						
40.00	Set temp. ¼ sec. cor.						
79.63	Intersect N. and S. line at 5 lks. N. of the cor. of secs. 2 and 11.						
	Thence						
	N. 89°58'W., on true line, bet. secs. 2 and 11.						
	Over mountainous land, thru scattering timber and undergrowth. Asc. 15 ft. over NE. slope.						
0.80	Spur, slopes SE. from W.; asc. 76 ft. along top of spur.						
4.93	Leave top of spur, slopes E. from NW.; asc. 85 ft. over S. slope.						
9.75	Head of gully, course SE.; asc. 250 ft. over SE. and E. slopes.						
13.46	Wire fence bears N. 31°W. and S. 31°E.						
25.89	Rocky spur, slopes S.; desc. 30 ft. over SW. slope.						

Survey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

24

Chains	
29.90	Head of drain, course S.; asc. 10 ft. over SE. slope.
33.93	Spur, slopes S.; desc. 64 ft. over W. slope.
37.85	Wash, 10 lks. wide, course S.; asc. 18 ft. over SE. slope to
39.63	Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 16 ins. high, around post, for $\frac{1}{4}$ sec. cor. of secs. 2 and 11, with brass cap marked
	$\frac{1}{4} \frac{S2}{S11}$
	1938
	from which
	An oak, 18 ins. diam., bears S. 85°W., 604 lks. dist., marked $\frac{1}{4}$ S11 BT.
	No other bearing tree available.
	Enter saddle in ridge, bearing NE. and SW.; desc. 26 ft. over S. and SW. slopes to
45.86	Leave saddle; desc. 123 ft. over NW. slope.
47.32	Wire fence, bears N. 61°E. and S. 61°W.
54.45	Wash, 10 lks. wide, course N., near head; asc. 14 ft. over E. slope.
55.33	Short spur, slopes N.; desc. 13 ft. over W. slope.
57.41	Wash, 5 lks. wide, course N.; asc. 11 ft. over E. slope.
59.63	Spur, slopes N.; desc. 23 ft. over W. slope.
61.84	Wash, 10 lks. wide, course NW.; asc. 92 ft. over NE. slope.
69.33	Point of spur, slopes N., desc. 93 ft. over NW. slope.
72.13	Old mine dump on line.
77.84	Wash, course NE. near head; asc. 12 ft. over NE. slope to sec. cor.
78.13	Trail, bears NE. and SW.
79.63	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous. Soil, rocky, 4th rate. Timber, oak and mesquite. Undergrowth, scrub oak, catclaw and cacti.
	North, bet. secs. 2 and 3, on Sectional Guide Meridian.
	Over mountainous land, thru scattering timber and undergrowth. Desc. 8 ft. over NW. slope.
0.20	Wash, 10 lks. wide, course NE.; asc. 46 ft. over SE. slope.
2.94	Point of spur, slopes E.; desc. 30 ft. over NE. slope.

Survey of Part of the Subdivision Lines of T. 20 S., R. 7 E.

BOOK 4151

25

Chains	
5.29	Wash, 10 lks. wide, course SE.; asc. 53 ft. over SW. slope.
12.93	Low saddle in spur, sloping E.; desc. 66 ft. over NE. slope.
15.63	Wash, 10 lks. wide, course E.; asc. 65 ft. over S. slope.
19.21	E. side of low saddle in spur sloping E. from SW.; desc. 103 ft. over NE. slope.
23.63	Wash, 10 lks. wide, course NE.; asc. 5 ft. over SE. slope.
25.53	Low spur, slopes NE.; desc. 170 ft. over N. slope.
33.28	Wash, 10 lks. wide, course NE.; asc. 65 ft. over SE. slope.
39.01	Spur, slopes NE.; desc. 20 ft. over NW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 10 ins. high, around post, for $\frac{1}{4}$ sec. cor. of secs. 2 and 3, with brass cap marked
	$\frac{1}{4}$ S3 S2 1938 from which
	An oak, 12 ins. diam., bears S. 62°W., 23 lks. dist., marked $\frac{1}{4}$ S3 BT.
	An oak, 8 ins. diam., bears N. 24°E., 68 lks. dist., marked $\frac{1}{4}$ S2 BT.
	Desc. 132 ft. over NW. slope.
43.79	Wash, 10 lks. wide, course NE.; asc. 15 ft. over SE. slope.
45.94	Spur, slopes E. from SW.; desc. 74 ft. over N. slope.
50.60	Wash, 40 lks. wide, course E.; asc. 119 ft. over S. slope.
56.39	Spur, slopes E.; desc. 116 ft. over N. slope.
60.62	Wash, 10 lks. wide, course E.; asc. 50 ft. over S. slope.
63.82	Ridge, bears E. and W.; desc. 120 ft. over N. slope.
71.06	Wash, 5 lks. wide, course E. near head; asc. 11 ft. over SE. slope.
72.04	Spur, slopes NE.; desc. 41 ft. over NW. slope.
74.60	Wash, 10 lks. wide, course E.; asc. 25 ft. over SE. slope to
76.72	Desc. 28 ft. over E. slope to
81.15	Intersect North bdy. of the Tp. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bedrock and raise a mound of stone 3 ft. base, 12 ins. high, around post, for closing cor. of secs. 2 and 3, with brass cap marked

Survey of Part of Subdivision Lines of T. 20 S., R. 7 E.

Chains	<table style="margin: auto; border-collapse: collapse;"> <tr><td colspan="2">T19S R7E</td></tr> <tr><td colspan="2" style="border-bottom: 1px solid black;">S35</td></tr> <tr><td style="border-right: 1px solid black; text-align: center;">C</td><td style="text-align: center;">C</td></tr> <tr><td style="border-right: 1px solid black; text-align: center;">S3</td><td style="text-align: center;">S2</td></tr> <tr><td style="border-right: 1px solid black; text-align: center;">T20S</td><td style="text-align: center;">R7E</td></tr> </table> <p style="text-align: center; margin-top: 10px;">1938</p> <p style="text-align: right; margin-right: 100px;">from which</p> <p>A black oak, 12 ins. diam., bears S. 50°E., 62 lks. dist., marked T20S R7E S2 CC BT.</p> <p>A black oak, 8 ins. diam., bears S. 43°W., 32 lks. dist., marked T20S R7E S3 CC BT.</p> <p>The cor. of secs. 34 and 35, T. 19 S., R. 7 E., bears West, 2.50 chs. dist. which is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, marked on brass cap as described in the official record, and witnessed by a mound of stone N. of cor. No bearing trees.</p> <p>Land, mountainous. Soil, rocky, 4th rate. Timber, oak and mesquite. Undergrowth, scrub oak, catclaw and cacti.</p>	T19S R7E		S35		C	C	S3	S2	T20S	R7E
T19S R7E											
S35											
C	C										
S3	S2										
T20S	R7E										
4.80 15.15 20.40 26.87 29.00 31.03 35.00 38.00 39.00 40.00	<p>From the original cor. of secs. 15, 16, 21 and 22, N. 0°02'W., bet. secs. 15 and 16.</p> <p>Over mountainous land, thru scattering timber and undergrowth. Asc. 74 ft. over SW. slope.</p> <p>Spur, slopes SE.; desc. 78 ft. over NE. slope.</p> <p>Wash, 25 lks. wide, course SE.; asc. 109 ft. over SW. slope.</p> <p>Ridge, bears NW. and SE.; desc. 76 ft. over NE. slope.</p> <p>Gulch, course SE.; asc. 30 ft. over SW. slope.</p> <p>Spur, slopes SE.; desc. 29 ft. over NE. slope.</p> <p>Gulch, course SE.; asc. 58 ft. over S. slope.</p> <p>Spur, slopes E.; desc. 17 ft. over NE. slope.</p> <p>Head of gulch, course SE.; asc. 5 ft. over SE. slope.</p> <p>Low ridge, bears NE. and SW.; desc. 6 ft. over NW. slope to</p> <p>Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 15 and 16, with brass cap marked</p>										
	<table style="margin: auto; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">$\frac{1}{4}$</td></tr> <tr><td style="border-right: 1px solid black; text-align: center;">S16</td><td style="text-align: center;">S15</td></tr> <tr><td colspan="2" style="text-align: center;">1938</td></tr> </table> <p style="text-align: right; margin-right: 100px;">from which</p> <p>An oak, 14 ins. diam., bears West, 74 lks. dist., marked $\frac{1}{4}$ S16 BT.</p> <p>An oak, 20 ins. diam., bears N. 65°E., 34 lks. dist., marked $\frac{1}{4}$ S15 BT.</p>	$\frac{1}{4}$		S16	S15	1938					
$\frac{1}{4}$											
S16	S15										
1938											

Survey of Part of Subdivision Lines of T. 20 S., R. 7 E.

BOOK 4151

27

Chains	Desc. 52 ft. over NW. slope.						
46.60	Wash, 20 lks. wide, course NE.; asc. 32 ft. over SE. slope.						
48.40	Point of spur, slopes E.; desc. 12 ft. over N. slope.						
49.34	Gully, course E.; asc. 12 ft. over S. slope.						
50.60	Point of spur, slopes E.; desc. 34 ft. over NE. slope.						
55.01	Wash, 30 lks. wide, course SE.; asc. 36 ft. over SW. slope.						
57.00	Spur, slopes SE.; desc. 31 ft. over NE. slope.						
60.40	Wash, 10 lks. wide, course SE.; asc. 158 ft. over SW. slope.						
68.70	Spur, slopes SE.; desc. 63 ft. over NE. slope.						
72.09	Gulch, course SE.; asc. 79 ft. over SW. slope.						
75.50	Spur, slopes SE.; desc. 5 ft. over NE. slope.						
77.28	Gully, course SE.; asc. 84 ft. over S. slope to						
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bedrock, with a stone marked with a cross (x) deposited at base and raise a mound of stone 3 ft. base, 20 ins. high, around post, for cor. of secs. 9, 10, 15 and 16, with brass cap marked						
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>T20S</td> <td>R7E</td> </tr> <tr> <td>S9</td> <td>S10</td> </tr> <tr> <td>S16</td> <td>S15</td> </tr> </tbody> </table> <p>1938</p>	T20S	R7E	S9	S10	S16	S15
T20S	R7E						
S9	S10						
S16	S15						
	No bearing trees available.						
	Land, mountainous. Soil, rocky, 4th rate. Timber, oak and mesquite. Undergrowth, scrub oak, catclaw and cacti.						
	East, on random line, bet. secs. 10 and 15.						
40.00	Set temp. $\frac{1}{4}$ sec. cor.						
79.98	Intersect N. and S. line 12 lks. S. of the cor. of secs. 10, 11, 14 and 15.						
	Thence						
	S. 89°55'W., on true line, bet. secs. 10 and 15.						
	Over mountainous land, thru scattering timber and undergrowth. Desc. gradually over S. slope.						
3.00	Head of gulch, course S.; asc. 30 ft. over SE. slope.						
8.25	Ridge, bears NE. and SW.; head of gully, course W. Desc. 384 ft. along sides of gully to						
25.15	Wash, 20 lks. wide, course SW. and mouth of gully from E. Asc. 50 ft. over SE. slope.						
31.00	Spur, slopes SW.; desc. 109 ft. over NW. slope.						

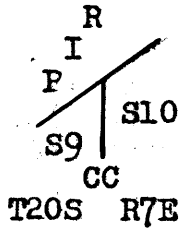
Survey of Part of Subdivision Lines of T. 20 S., R. 7 E.

28

Chains	
36.74	Wash, 15 lks. wide, course SW.; asc. 18 ft. over SE. slope.
39.30	Point of low spur, slopes SW.; desc. slightly over W. slope to
39.99	Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, with a stone 6x8x8 ins., marked with a cross (x) deposited at base, and raise a mound of stone 3 ft. base, 14 ins. high, around post, for $\frac{1}{4}$ sec. cor. of secs. 10 and 15, with brass cap marked
	$\frac{1}{4} \frac{S10}{S15}$ 1938
	No bearing trees available.
	Desc. slightly over W. slope.
40.50	Gully, course S.; asc. 15 ft. over SE. slope.
43.40	Spur, slopes SW.; desc. 96 ft. over NW. slope.
49.00	Gold Mine Wash, 50 lks. wide, course SE. Road in bed of wash extends to gold mine in NE. $\frac{1}{4}$ of sec. 10.
	Asc. 40 ft. over NE. slope.
54.60	Spur, slopes SE., near point of same; desc. 26 ft. over SW. slope.
55.37	Wash, 20 lks. wide, course SE.; asc. 96 ft. over E. slope.
66.20	Spur, slopes SE.; desc. 8 ft. over SW. slope.
67.14	Wash, 15 lks. wide, course SE.; asc. 222 ft. over NE. slope.
78.20	Spur, slopes SE.; asc. 20 ft. over S. slope to
79.98	The cor. of secs. 9, 10, 15 and 16.
	Land, mountainous. Soil, rocky, 4th rate. Timber, oak and mesquite. Undergrowth, scrub oak, catclaw and cacti.
	N. 0°02'W., bet. secs. 9 and 10 (Part).
	Over mountainous land, thru scattering timber and undergrowth. Asc. 75 ft. over S. slope.
3.12	Spur, slopes SE.; desc. 54 ft. over NE. slope.
11.38	Gulch, course SE.; asc. 169 ft. over SW. slope.
15.92	Spur, slopes SE.; asc. 78 ft. over E. slope to
30.15	Foot of knoll. Asc. 134 ft. over SE. slope.
34.70	Top of knoll. Desc. 5 ft. over N. slope to
35.80	Intersect East bdy. of Papago Indian Reservation. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 14 ins. high, around post, for closing cor. of secs. 9 and 10, with

Chains

brass cap marked.



1938

from which

An oak, 4 ins. diam., bears S. 32°W., 18 lks. dist., marked BT only.

An oak, 12 ins. diam., bears S. 54°E., 45 lks. dist., marked T20S R7E S10 CC BT.

Angle point No. 5 bears S. 57°30'W., 14 lks. dist., and Angle point No. 4 bears N. 57°30'E., 5.36 chs. dist., both on the first half of the 18th mile of P.I.R. bdy. and each monumented with a small mound of stone.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak and mesquite.

Undergrowth, scrub oak, catclaw and cacti.

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

West, bet. secs. 3 and 10 (Part).

Over mountainous land, thru scattering timber and undergrowth. Desc. 5 ft. over NW. slope.

0.40 Wash, 10 lks. wide, course NE. from W.; asc. gradually up wash.

3.70 Leave wash, course E. from NW.; asc. 245 ft. over NE. slope.

14.00 Wire fence, bears NW. and SE.

14.17 Ridge, bears NW. and SE.; desc. slightly over SW. slope.

16.00 Head of gully, course S.; asc. 5 ft. over SE. slope.

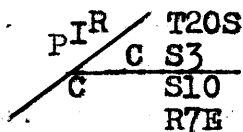
19.50 Spur, slopes SW.; desc. gradually over W. slope.

25.00 Head of gully, course SE.; asc. 18 ft. over SE. slope.

27.68 Papago Indian Reservation boundary fence, bears N. 53°E. and S. 53°W.

27.94 Intersect East bdy. of Papago Indian Reservation.

At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bedrock, with a stone marked with a cross (x) deposited at base, and raise a mound of stone 3 ft. base, 12 ins. high, around post, for closing cor. of secs. 3 and 10, with brass cap marked



1938

Survey of Part of Subdivision Lines of T. 20 S., R. 7 E.

Chains

No bearing trees available.

Angle point No. 6 bears S. 53°W., 7.41 chs. dist., and
Angle point No. 5 bears N. 53°E., 10.09 chs. dist.,
both on the first half of the 17th mile of P.I.R.
bdy. and each monumented with a small mound of stone.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak and mesquite.

Undergrowth, scrub oak, catclaw and cacti.

From the original cor. of secs. 27, 28, 33 and 34,
West, bet. secs. 28 and 33.

Over mountainous land, thru scattering timber and under-
growth. Ascend 20 ft. over NE. slope.

2.00 Desc. 7 ft. over NW. slope.

3.68 Wash, course NE.; asc. 206 ft. over E. slope.

12.10 Spur, slopes NE.; desc. 186 ft. over NW. slope.

25.40 Wash, 4 lks. wide, in gulch, course NE.; asc. 156 ft. over
SE. slope.

30.43 Spur slopes NE.; desc. 5 ft. over NW. slope.

31.50 Head of drain, course NE.; asc. 35 ft. over E. slope.

33.78 Spur, slopes N.; desc. 141 ft. over W. slope.

38.84 Wash, 8 lks. wide, course N.; asc. slightly over E. slope
to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in
the ground to bedrock, and raise a mound of stone 3 ft.
base, 16 ins. high, around post, for $\frac{1}{4}$ sec. cor. of
secs. 28 and 33, with brass cap marked

$\frac{1}{4}$ $\frac{S28}{S33}$

1938

from which

A mesquite, 8 ins. diam., bears N. 46°E., 141 lks.
dist., marked $\frac{1}{4}$ S28 BT.

A mesquite, 6 ins. diam., bears S. 22°E., 80 lks.
dist., marked $\frac{1}{4}$ S33 BT.

Asc. 5 ft. over E. slope.

41.20 Low spur, slopes N.; desc. 22 ft. over W. slope.

43.07 Wash, 10 lks. wide, course N.; asc. 22 ft. over E. slope.

46.20 Spur, slopes N.; desc. 18 ft. over W. slope.

47.37 Wash, 5 lks. wide, course NW. from S.; asc. 4 ft. over
NE. slope.

48.80 Point of low spur, slopes N.; desc. 16 ft. over NW. slope.

50.27 Wash, 30 lks. wide, course NE.; asc. 45 ft. over SE.
slope.

Survey of Part of Subdivision Lines of T. 20 S., R. 7 E.

BOOK 410

31

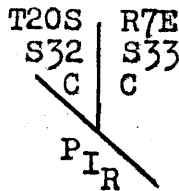
Chains							
53.80	Spur, slopes NE.; desc. 5 ft. over NW. slope.						
55.00	Head of drain, course N.; asc. 32 ft. over NE. slope.						
58.04	Spur, slopes N.; desc. 59 ft. over NW. slope.						
68.68	Wash, 30 lks. wide, course NE.; asc. 101 ft. over SE. slope.						
74.80	Point of spur, slopes S.; desc. 32 ft. over SW. slope to						
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 12 ins. high around post, for cor. of secs. 28, 29, 32 and 33, with brass cap marked						
<table border="1"> <tr> <td>T20S</td> <td>R7E</td> </tr> <tr> <td>S29</td> <td>S28</td> </tr> <tr> <td>S32</td> <td>S33</td> </tr> </table>		T20S	R7E	S29	S28	S32	S33
T20S	R7E						
S29	S28						
S32	S33						
1938 from which							
An oak, 14 ins. diam., bears N. 60°W., 232 lks. dist., marked T20S R7E S29 BT.							
A mesquite, 6 ins. diam., bears S. 25°E., 170 lks. dist., marked BT only.							
No other bearing trees available.							
Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.							
Land, mountainous. Soil, rocky, 4th rate. Timber, oak and mesquite. Undergrowth, scrub oak, catclaw and cacti.							
S. 0°02'E., bet. secs. 32 and 33 (Part).							
Over mountainous land, thru scattering timber and undergrowth.							
Desc. 17 ft. over SW. slope.							
1.02	Wash, 10 lks. wide, course SE.; asc. 8 ft. over NE. slope.						
2.00	Point of low spur, slopes SE.; desc. 34 ft. over SE. slope.						
3.52	Wash, 10 lks. wide, course SE.; asc. 34 ft. over N. slope.						
5.10	Point of spur, slopes NE.; desc. 10 ft. over SE. slope.						
6.04	Wash, 10 lks. wide, course NE.; asc. 325 ft. over NW. slope to						
22.85	Spur, slopes NE.; asc. 46 ft. over E. slope.						
25.00	Head of gully, course NE.; asc. 30 ft. over NW. slope.						
29.17	Spur, slopes NE.; asc. 14 ft. over E. slope to						
32.12	Intersect East bdy. of Papago Indian Reservation. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bedrock, with a stone marked with a cross (x) deposited at base, and						

Survey of part of Subdivision Lines of T. 20 S., R. 7 E.

32

Chains

raise a mound of stone 3 ft. base, 16 ins. high, around post, for closing cor. of secs. 32 and 33, with brass cap marked



No bearing trees available.

Angle point No. 7 of the last half of the 23rd mile of the P.I.R. bdy., bears N. $47^{\circ}00'W.$, 3.07 chs. dist., which is a small mound of stone, and the 23rd mile monument, which is an iron post, 3 ins. in diam., projecting 28 ins. above ground marked on brass cap as described in the official record, firmly set in ground and mound of stone, bears S. $47^{\circ}00'E.$, 63 lks. dist.

Discontinue survey at this closing cor. as the remainder of the line bet. secs. 32 and 33 is within the Reservation.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak and mesquite.

Undergrowth, scrub oak, catclaw and cacti.

From the cor. of secs. 28, 29, 32 and 33,

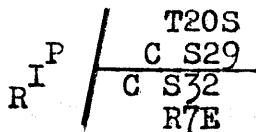
West, bet. secs. 29 and 32 (Part).

Over mountainous land, thru scattering timber and undergrowth.

Desc. 14 ft. over SW. slope.

0.87 Wash, 10 lks. wide, course SE,; asc. 192 ft. over NE. slope to

9.98 Intersect the East bdy. of Papago Indian Reservation. At point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to bedrock, with a stone 6x4x10 ins., marked with a cross (x) deposited at base, and raise a mound of stone 3 ft. base, 16 ins. high, around post, for closing cor. of secs. 29 and 32, with brass cap marked



1938

No bearing trees available.

Angle point No. 7 of the first half of the 23rd mile of the P.I.R. bdy. bears N. $10\frac{1}{2}^{\circ}E.$, 33 lks. dist., which is a small mound of stone, and the 22 $\frac{1}{2}$ mile monument, which is an iron post, 1 in. in diam., projecting 24 ins. above ground, marked on brass cap as described in the official record, firmly set in ground and mound of stone, bears S. $10\frac{1}{2}^{\circ}W.$, 5.87 chs. dist.

Discontinue survey at this closing cor. as the remainder of the line bet. secs. 29 and 32 is within the Reservation.

Survey of part of Subdivision Lines of T. 20 S., R. 7 E.

Chains

Land, mountainous.
Soil, rocky, 4th rate.
Timber, mesquite.
Undergrowth, scrub oak, catclaw and cacti.

From cor. of secs. 28, 29, 32 and 33,
N. 0°13'W., (parallel to mean bearing of E. bdy. of sec. 28) bet. secs. 28 and 29 (part).

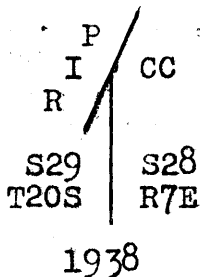
Over mountainous land, thru scattering timber and undergrowth. Asc. 317 ft. over SW. slope.

12.49 Top of high rocky hill; desc. 270 ft. over NE. slope.

12.70 A point 50 lks. E. of Papago Indian Reservation bdy. wire fence bearing N. and S. A wire fence extends W. from the bdy. fence at this point.

28.50 Saddle in crest of the Poso Verde Mountains, bearing NE. and SW. Asc. slightly in saddle, over SW. slope to

29.12 Intersect the East bdy. of the Papago Indian Reservation. At point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to bedrock, with a stone marked with a cross (x) deposited at base, and raise a mound of stone 4 ft. base, 2 ft. high, around post, for closing cor. of secs. 28 and 29, with brass cap marked



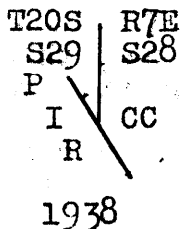
No bearing trees available.

The 22 mile monument on the P.I.R. bdy., brs. S. 17½° W., 57 lks. dist., which is an iron post, 3 ins. diam. projecting 18 ins. above ground, marked on brass cap as described in the official record, and firmly set in ground and mound of stone, and Angle point No. 6 of the last half of the 22nd mile of P.I.R. bdy., which is a small mound of stone, bears N. 17½° E., 5.03 chs. dist.

Continue line and measurement, within the Papago Indian Reservation.

Asc. 252 ft. over SW. slope, on W. side of and near the crest of the Poso Verde Mountains.

39.50 Intersect East bdy. of Papago Indian Reservation. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground, to bed rock, with a stone marked with a cross (x) deposited at base, and raise a mound of stone 4 ft. base, 28 ins. high, around post, for closing cor. of secs. 28 and 29, with brass cap marked,



Survey of part of Subdivision Lines of T. 20 S., R. 7 E.

34

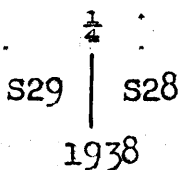
Chains

No bearing trees available.

Angle point No. 4 bears N. $31\frac{1}{2}^{\circ}$ W., 4.12 chs. dist., and
Angle point No. 5 bears S. $31\frac{1}{2}^{\circ}$ E., 3.78 chs. dist.,
both small mounds of stone and situated in the last
half of the 22nd mile of P.I.R. bdy.

Leave the Papago Indian Reservation, and continue line
and measurement. Asc. 16 ft. over SE. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in
the ground to bedrock, with a stone marked with a cross
(x) deposited at base, and raise a mound of stone 4 ft.
base, 2 ft. high, around post, for $\frac{1}{4}$ sec. cor. of secs.
28 and 29, with brass cap marked

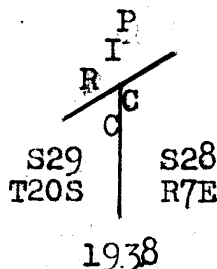


No bearing trees available.

Desc. 20 ft. over NE. slope.

41.50 Head of gulch, course E.; asc. 160 ft. over SE. slope to

45.63 Intersect East bdy. of Papago Indian Reservation.
At point of intersection, set an iron post, 3 ft. long,
2 ins. in diam., 14 ins. in the ground to bedrock, with
a stone marked with a cross (x) deposited at base, and
raise a mound of stone, 4 ft. base, 16 ins. high,
around post, for closing cor. of secs. 28 and 29, with
brass cap marked



No bearing trees available.

Angle point No. 3 bears S. $61\frac{1}{2}^{\circ}$ W., 4.12 chs. dist., and
Angle point No. 2 bears N. $61\frac{1}{2}^{\circ}$ E., 4.88 chs. dist.,
both small mounds of stone situated on the last half
of the 22nd mile of P.I.R. bdy.

Discontinue survey at this closing cor. as the remainder
of the line bet. secs. 28 and 29 is within the Reserva-
tion.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak and mesquite.

Undergrowth, scrub oak, catclaw and cacti.

From the cor. of secs. 21 and 28,

West, bet. secs. 21 and 28 (Part).

Over mountainous land, thru scattering timber and under-
growth. Desc. 45 ft. over SW. slope.

2.92 Wash, 10 lks. wide, course SE.; asc. 45 ft. over NE.
slope.

Survey of part of Subdivision Lines of T. 20 S., R. 7 E.

BOOK 4151

35

Chains	
8.00	Saddle in low spur sloping SE.; desc. 25 ft. over SW. slope.
11.57	Wash. 20 lks. wide, course SE.; asc. 24 ft. over NE. slope.
14.00	Low spur, slopes SE.; asc. gradually over S. slope to
17.70	Gully, 10 lks. wide, 4 ft. deep, course SE.; asc. 277 ft. over NE. slope to
39.50	Top of ridge, bears NW. and SE. Thence across same to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground to bedrock, with a stone 3x3x6 ins., marked with a cross (x) deposited at base, and raise a mound of stone, 3 ft. base, 14 ins. high, around post, for $\frac{1}{2}$ sec. cor. of secs. 21 and 28, with brass cap marked
	$\frac{1}{4} \frac{S \ 21}{S \ 28}$
	1938
	No bearing trees available.
	Leave top of ridge and desc. 126 ft. over SW. slope.
47.56	Gulch, course SE.; asc. 208 ft. over NE. slope.
54.10	Spur, slopes SE.; desc. 49 ft. over SW. slope.
58.34	Gully, course SE. near head; asc. 213 ft. over SE. slope to
67.86	Intersect the East bdy. of Papago Indian Reservation. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bedrock, with a stone marked with a cross (x) deposited at base, and raise a mound of stone 3 ft. base, 16 ins. high, around post, for closing cor. of secs. 21 and 28, with brass cap marked
	$\begin{array}{c} P \\ I / C \ S21 \\ R / C \ S28 \\ T20S \ R7E \end{array}$
	1938
	No bearing trees available.
	Angle point No. 2 bears N. 28°E., 4.53 chs. dist., and Angle point No. 3 bears S. 28°W., 2.57 chs. dist., both small mounds of stone situated on the first half of the 22nd mile of P.I.R. bdy.
	Discontinue survey at this closing cor. as the remainder of the line bet. secs. 21 and 28 is within the Reservation.
	Land, mountainous. Soil, rocky, 4th rate. Timber, mesquite and oak. Undergrowth, scrub oak, catclaw and cacti.

Survey of part of Subdivision Lines of T. 20 S., R. 7 E.

36

Chains	
	From the original cor. of secs. 15, 16, 21 and 22. West, bet. secs. 16 and 21 (Part). Over mountainous land, thru scattering timber and undergrowth. Desc. 8 ft. over SW. slope.
0.20	Gully, course S.; asc. 157 ft. over E. slope.
10.00	Spur, slopes S.; desc. 89 ft. over W. slope.
12.91	Gulch, course S.; asc. 46 ft. over SE. slope.
15.70	Point of spur, slopes S.; desc. 53 ft. over SW. slope.
19.61	Wash, 20 lks. wide, course SE.; asc. 362 ft. over NE. slope of high rocky butte on which the 20 mile monument of the P.I.R. bdy. is set.
36.29	Intersect East bdy. of Papago Indian Reservation. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, and in a mound of stone to top, for closing cor. of secs. 16 and 21, with brass cap marked

P T20S
 I C S16
 R C S21
 R7E

1938

from which

An oak, 14 ins. diam., bears S. $30\frac{1}{2}^{\circ}$ E., 97 lks. dist., marked T20S R7E S21 CC BT.

An oak, 6 ins. diam., bears N. $74\frac{1}{2}^{\circ}$ E., 95 lks. dist., marked T20S R7E S16 CC BT.

The 20 mile monument of E. bdy. of P.I.R. on top of high rocky butte, bears S. 20° E., 3.68 chs. dist., which is an iron post, 3 ins. diam., projecting 24 ins. above ground, firmly set in ground and mound of stone, and marked on brass cap as described in the official record.

From closing cor.,
Angle point No. 5 of last half of the 20th mile of P.I.R. bdy. which is a small mound of stone, bears N. 20° W., 1.92 chs. dist.,

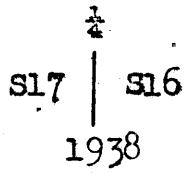
Discontinue survey at the closing cor. as the remainder of the line bet. secs. 16 and 21 is within the Reservation.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak and mesquite.
Undergrowth, scrub oak, catclaw and cacti.

	From the $\frac{1}{4}$ sec. cor. of secs. 15 and 16. West, on latitudinal $\frac{1}{4}$ sec. line of sec. 16. Over mountainous land, thru scattering timber and undergrowth. Desc. 27 ft. over NW. slope.
6.48	Bend in wash, 20 lks. wide, course NE. from NW.; asc. 41 ft. over NE. slope.

Survey of part of Subdivision Lines of T. 20 S., R. 7 E. BOOK 9300

- Chains
- 13.40 Point of spur, slopes NW.; desc. 20 ft. over NW. slope.
- 16.77 Same wash, course NE.; asc. 83 ft. over SE. slope.
- 25.00 Point of spur, slopes SE.; asc. 50 ft. over S. slope.
- 30.60 Gully, course SE.; asc. 210 ft. over E. slope.
- 41.09 Spur, slopes SE.; desc. 85 ft. over SW. slope.
- 48.66 Gulch, 10 lks. wide, course SE.; asc. 274 ft. over E. slope.
- 56.61 Spur, slopes S.; desc. 187 ft. over W. slope.
- 65.45 Gulch, 10 lks. wide, course SW.; asc. 102 ft. over SE. slope.
- 70.88 Point of spur, slopes SE.; desc. 58 ft. over SW. slope.
- 74.18 Wash, 10 lks. wide, course SE.; asc. 176 ft. over NE. slope to
- 80.00 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bedrock, with a stone 6x8x4 ins., marked with a cross (x) deposited at base, and raise a mound of stone, 3 ft. base, 16 ins. high, around post, for $\frac{1}{4}$ sec. cor. of secs. 16 and 17, with brass cap marked



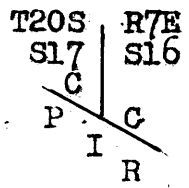
No bearing trees available.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, oak and mesquite.
 Undergrowth, scrub oak, catclaw and cacti.

From the $\frac{1}{4}$ sec. cor. of secs. 16 and 17.
 S. 0°02'E., bet. secs. 16 and 17 (Part of S. $\frac{1}{2}$).

Over mountainous land, thru scattering timber and undergrowth. Asc. 34 ft. over NE. slope.

- 1.80 Spur, slopes SE.; desc. 104 ft. over S. slope.
- 7.70 Gulch, course E.; asc. 198 ft. over N. slope to
- 15.05 Intersect the East bdy. of Papago Indian Reservation. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, with a stone 6x8x3 ins., marked with a cross (x) deposited at base, and raise a mound of stone 3 ft. base, 18 ins. high, around post, for closing cor. of secs. 16 and 17, with brass cap marked



1938

Survey of part of Subdivision Lines of T. 20 S., R. 7 E.

38

Chains

No bearing trees available.

Angle point No. 5 bears N. $62\frac{1}{4}^{\circ}$ W., 19 lks. dist., and
 Angle point No. 6 bears S. $62\frac{1}{4}^{\circ}$ E., 2.71 chs. dist.,
 both small mounds of stone, on the first half of the
 20th mile of E. bdy. of P.I.R.

Discontinue survey at the closing cor. as the remainder
 of the S. $\frac{1}{2}$ of line bet. secs. 16 and 17 is within the
 Reservation.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, oak and mesquite.
 Undergrowth, scrub oak, catclaw and cacti.

From $\frac{1}{4}$ sec. cor. of secs. 16 and 17,

N. $0^{\circ}02'$ W., bet. secs. 16 and 17 (Part of N. $\frac{1}{2}$).

Over mountainous land, thru scattering timber and under-
 growth. Desc. 23 ft. over NE. slope.

0.94 Gully, course E.; asc. 89 ft. over SE. slope.

4.40 Point of spur, slopes E.; desc. 68 ft. over NE. slope.

7.20 Gulch, course SE.; near head; asc. 84 ft. over SE. slope
 to

10.43 Intersect East bdy. of Papago Indian Reservation.
 At point of intersection, set an iron post, 3 ft. long,
 2 ins. in diam., 20 ins. in the ground to bedrock, with
 a stone marked with a cross (x) deposited at base, and
 raise a mound of stone 3 ft. base, 12 ins. high, around
 post, for closing cor. of secs. 16 and 17, with brass
 cap marked

1938

from which

A black oak, 10 ins. diam., bears S. 61° W., 137 lks.
 dist., marked T20S R7E S17 CC BT.

No other bearing tree available.

Angle point No. 6 bears N. $69\frac{1}{4}^{\circ}$ E., 96 lks. dist., and
 Angle point No. 7 bears S. $69\frac{1}{4}^{\circ}$ W., 4.44 chs. dist.,
 both small mounds of stone, on the last half of the
 19th mile of E. bdy. of P.I.R.

Discontinue survey at the closing cor. as the remainder
 of the N. $\frac{1}{2}$ of line bet. secs. 16 and 17 is within the
 Reservation.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, oak and mesquite.
 Undergrowth, scrub oak, catclaw and cacti.

From the cor. of secs. 9, 10, 15 and 16,

West, bet. secs. 9 and 16 (Part).

Survey of part of Subdivision Lines of T. 20 S., R. 7 E.

Chains

Over mountainous land, thru scattering timber and undergrowth.

Asc. gradually over S. slope to

- 3.00 Gully, course SE.; asc. 180 ft. over E. slope.
- 7.52 Spur, slopes SE.; desc. 220 ft. over SW. slope.
- 17.50 Wash, 20 lks. wide, course SE.; asc. 224 ft. over NE. slope.
- 25.77 Spur, slopes SE.; desc. 15 ft. over SW. slope.
- 28.00 Head of gully, course SE.; asc. 230 ft. over E. slope.
- 39.28 Spur, slopes S.; desc. slightly over W. slope to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 9 and 16, with brass cap marked

$\frac{1}{4} \frac{S 9}{S 16}$

1938

from which

An oak, 14 ins. diam., bears N. 62°W., 234 lks. dist., marked $\frac{1}{2}$ S9 BT.

An oak, 14 ins. diam., bears S. 83°W., 312 lks. dist., marked $\frac{1}{2}$ S16 BT.

Desc. 184 ft. over W. slope.

- 48.60 Wash, 8 lks. wide, course SW.; asc. 25 ft. over SE. slope.
- 53.50 Point of spur, slopes SE.; desc. 124 ft. over SW. slope.
- 57.30 Wash, 5 lks. wide, course S., near head; asc. 38 ft. over SE. slope to
- 60.40 Intersect East bdy. of Papago Indian Reservation.

At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground, to bedrock, and raise a mound of stone, 3 ft. base, 16 ins. high, around post, for closing cor. of secs. 9 and 16, with brass cap marked

P
I
R / $\frac{T20S}{C S 9}$
C S 16
R7E

1938

from which

An oak, 12 ins. diam., bears N. 83°E., 296 lks. dist., marked T20S R7E S9 CC BT.

An oak, 4 ins. diam., bears S. 83°E., 146 lks. dist., marked BT only.

Angle point No. 4, bears N. 10°E., 12 lks. dist., and Angle point No. 5 bears S. 10°W., 8.58 chs. dist., both small mounds of stone on the first half of the 19th mile of E. bdy. of P.I.R.

Discontinue survey at the closing cor. as the remainder

Survey of part of Subdivision Lines of T. 20 S., R. 7 E.

40

Chains

of the line bet. secs. 9 and 16 is within the Reservation.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, oak and mesquite.

Undergrowth, scrub oak, catclaw and cacti.

FINAL TEST OF INSTRUMENT

April 17, 1938; at station about 20 chs. SW. of the $\frac{1}{4}$ sec. cor. of secs. 10 and 15, T. 20 S., R. 7 E., G. & S.R. Meridian, Arizona, in latitude $31^{\circ}41\frac{1}{2}'$ N., and longitude $111^{\circ}37'$ W., and on the meridian determined at this station by Polaris observation on March 30 and 31, 1938 as hereinbefore described, test the solar apparatus of Buff transit No. 18000 as follows:

At 9h.00m., a.m., app.t., set off $31^{\circ}41\frac{1}{2}'$ N. on the latitude arc; $10^{\circ}25'$ N. on the declination arc; and determine a meridian with the solar, which agrees with the true meridian.

At app. noon, with the latitude arc unchanged, observe the sun on the meridian, and obtain a reading of $10^{\circ}27\frac{1}{2}'$ N. on the declination arc, which agrees with the computed declination of the sun.

At 3h.00m., p.m., app.t., with the latitude arc unchanged, set off $10^{\circ}30'$ N. on the declination arc, and determine a meridian with the solar, which agrees with the true meridian.

As all of the solar observations taken during the usual hours of solar work agree within 1' with the true meridian, conclude that this instrument has remained in satisfactory adjustment throughout the surveys described in the foregoing field notes.

GENERAL DESCRIPTION

The portion of T. 20 S., R. 7 E., surveyed as described in the foregoing field notes lies on the east slopes of the Baboquivari and Poso Verde Mountains, the crests of which ranges form the East boundary of the Papago Indian Reservation and the western limit of this survey. The general bearing of the crest of these mountains is northerly and southerly thru about the middle of the township. A saddle in the SW $\frac{1}{4}$ of section 16, known as North Pass, divides the crest of the Baboquivari Mountains on the north, from the crest of the Poso Verde Mountains to the south of said pass. The surface is practically all mountainous, and the elevations range from 3600 to 5200 feet above sea level. The highest elevations are at Millard Peak in SE $\frac{1}{4}$ of section 2 and along the crest of the Baboquivari Mountains in section 3. The lowest elevation of the area embraced in this survey is at the SE corner of section 33. The general course of the drainage in sections 2, 3, and parts of sections 11, 28 and 33, is easterly, parts of sections 10 and 15, southerly, and the remainder of the area drains southeasterly. The principal water courses are: a wash heading near the Reservation bdy. in section 3 with an easterly course thru the northern parts of sections 3 and 2; a wash heading in eastern part of section 10 with an easterly course thru middle of section 11; Agua Escondido Wash heading in SW $\frac{1}{4}$ of section 11, with a southeasterly

course thru section 14; Gold Mine Wash, heading near NE. cor. of section 10, with a general southerly course thru sections 10 and 15; a wash heading near Reservation bdy. in SW. $\frac{1}{4}$ of section 28, with an easterly course thru said section; and a wash heading at the Reservation bdy. in section 17, with a southeasterly course for about one half mile, thence northeasterly to junction with Gold Mine Wash in NW. $\frac{1}{4}$ of section 15.

The soil of this part of the township is rocky, 4th rate, except in southern parts of sections 14 and 15 and eastern parts of sections 21, 28, and 33 where there are some small areas of gravelly, 3rd rate soil.

Timber, consisting of a scattering growth of oak and mesquite, is prevalent over most of the area embraced in this survey, and undergrowth, also scattering in all sections, consists of scrub oak, catclaw and cacti. There is a fair growth of grass.

None of the watercourses carry a permanent flow of water. Agua Escondido Spring in the northern part of section 14, in the wash of same name, is the only spring observed in this survey. Wells are located as follows: one in NE. $\frac{1}{4}$ of section 2, one in NE. $\frac{1}{4}$ of section 10, one in SE. $\frac{1}{4}$ of section 15, and one in SE. $\frac{1}{4}$ of section 28.

There are no settlers permanently residing in this part of the township, and there is no land under cultivation. The improvements have been made by the settlers holding land in the previously surveyed part of the Tp., or by claimants of some of the mines.

This township is located in the Baboquivari Mining District, but according to the records in the Public Survey Office at Phoenix there are no approved or patented mining claims in this township. There are, however, a number of mining locations, several of which show evidence of considerable development work having been done on shafts, tunnels, etc. The principal group of these mines is in the northern part of section 2, known as the Jupiter, Iowana, and Humbolt mines, which have improvements consisting of several houses, mill, hoist, well and pumphouse, and dam across wash. The Gold King and B-B mines in NE. $\frac{1}{4}$ of section 10, have two houses and a well in addition to the mine workings. Other mines are located as follows: one in SE. $\frac{1}{4}$ of section 11, and one in SW. $\frac{1}{4}$ of section 28.

There are no improved roads in the township. A road from the mines in northern part of section 2 extends easterly thru the Baboquivari Ranch in section 1, to the Altar Valley-Tucson road about 6 miles distant. A road from the Las Moras Ranch in SW. $\frac{1}{4}$ of section 23 extends up Gold Mine Wash to the mines in NE. $\frac{1}{4}$ of section 10, from the end of which road a trail extends northeasterly to the mines in northern part of section 2. From a point on the Gold Mine Wash road in NW. $\frac{1}{4}$ of section 15, an old road extends southwesterly thru NORTH PASS into the Papago Indian Reservation. A road enters the NE. $\frac{1}{4}$ of section 21, and another road enters the SE. $\frac{1}{4}$ of section 28, both from Las Moras Ranch. A road from the Santa Margarita Ranch in section 24 extends northwesterly to mine in SE. $\frac{1}{4}$ of section 11. A road bearing NW. and SE. enters SE. $\frac{1}{4}$ of section 33 on the S. bdy. thereof. The roads in the previously surveyed portion of this township, with the exception of the one across section 1, extend southerly into the adjoining township to the south where they join a road extending southeasterly to the Altar Valley-Tucson road.

The Papago Indian Reservation boundary is fenced between natural barriers on said bdy. From a point on said bdy. fence in southern part of section 3, a range fence extends southeasterly into section 10, thence easterly into section 11, thence northeasterly to Millard Peak in SE $\frac{1}{4}$ of section 2. From same peak a range fence extends northeasterly into section 1, and another range fence extends southeasterly to point on N. $\frac{1}{2}$ of section line between sections 11 and 12, thence south on section line about 13 $\frac{1}{4}$ chains, thence southeasterly into section 12. A range fence corners at the corner of sections 11, 12, 13 and 14, extending East therefrom and southerly along East boundary of section 14 about 30 chains dist., thence southeasterly into section 13. A fence extends northwesterly into section 33 from point near SE. corner of said section. Windmills and tanks are constructed at the wells hereinbefore mentioned in sections 15 and 28. A cement tank is constructed at Agua Escondido Spring in northern part of section 14. Other improvements are those at the mines in sections 2 and 10, hereinbefore described.

The portion of the township surveyed as described in the foregoing field notes is of value for grazing and mining only.

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BOOK 4153

CERTIFICATE OF UNITED STATES SURVEYOR

I, Benjamin J. Kinsey, Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 25th day of October, 1937, received from the district cadastral engineer for Arizona, with assignment instructions dated February 12, 1938, I have retraced part of the boundary of Papago Indian Reservation and resurveyed and surveyed part of the subdivision lines of Township 20 South, Range 7 East

of the Gila and Salt River 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 said retracement, resurvey and survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Pos Cabezas, Ariz.
Jan. 10, 1939.

Benjamin J. Kinsey
Surveyor

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,
Denver, Colorado, January 16, 1939

The foregoing field notes of the retracement part of the boundary of Papago Indian Reservation and of the resurvey and survey of part of the subdivision lines of Township 20 South, Range 7 East of the Gila and Salt River Meridian, in the State of Arizona

executed by Benjamin J. Kinsey, Surveyor, under special instructions dated October 25, 1937 for Group 221, Arizona, and assignment instructions dated February 12, 1938, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the retracement, resurvey and survey therein described, are hereby approved.

Wm. A. Johnson
Supervisor of Surveys.

CERTIFICATE OF TRANSCRIPT

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~
~~is a true copy of the original field notes on file in the public survey office.~~

Supervisor of Surveys.