

FIELD NOTES

Of the Dependent Resurvey and Extension of Lines Subdividing Omitted
 Land Bordering Gila River, and the Subdivision of Section,
 Township 4 South, Range 8 East,

3959

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Francis E. Joy, U. S. Cadastral Engineer.

In the capacity of U. S. Surveyor, under Special Instructions dated September 28 1932,
 issued by the United States Surveyor General to govern surveys included in Group
 No. 175, which were approved by the Commissioner of the General Land
 Office, October 13, 1932, and Assignment Instructions dated September 28 1932.

3959

Survey commenced November 7, 1932.

Survey completed November 10, 1932.

INDEX DIAGRAM.

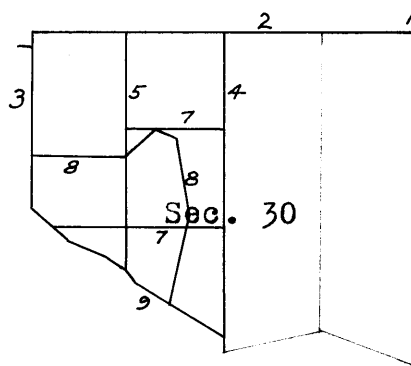
Township _____, *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

INDEX DIAGRAM

Township 4 South, Range 8 East.

BOOK 3959



Black indicates lines surveyed or resurveyed under this group.

Orange indicates previously surveyed lines not retraced or resurveyed under this group.

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 8 E.

Chains.

The survey of a portion of the omitted along the Gila River, the necessary retracements and resurveys of surveys executed by Guy P. Harrington, U. S. Surveyor, during 1911 and 1919, were executed with a Buff & Buff light mountain transit, Serial No. 16723, made in accordance with the standard specifications of the General Land Office. For complete description of instrumental equipment see the field notes of T. 3 S., R. 4 E. of this group.

The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer, on September 28, 1932.

For test of the solar attachment on a meridian determined by observation on Polaris, see the preliminary test made October 4, 1932 and described in the notes for T. 3 S., R. 6 E.

I commence at the cor. of secs. 19 and 30, on the W. bdy. of the township, which is an iron post, 1 in. diam. firmly set, 2 ins. below the surface, and marked as described in the official record.

Thence

N. 89° 51' E., on a random line bet. secs. 19 and 30:

20.00 No trace found of the W. 1/16 sec. cor. Set temp. cor.

40.00 No trace found of the 1/4 sec. cor. Set temp. cor.

60.00 No trace found of the E. 1/16 sec. cor. Set temp. cor.

80.08 Intersect the point for the cor. of secs. 19, 20, 29 and 30 as determined from original bearing tree.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, with brass cap mkd.

T4S R8E
S19|S20
S30|S29

1932

from which

Original bearing tree-

A palo verde, 20 ins. diam., bears N. 39° 30' W., 189 lks. dist., mkd. T4S R8E S19 BT

New bearing trees-

A palo verde, 12 ins. diam., bears N. 23° 45' E., 199 lks. dist., mkd. T4S R8E S20 BT

A palo verde, 16 ins. diam., bears S. 66° 30' W., 131 lks. dist., mkd. T4S R8E S30 BT

A palo verde, 16 ins. diam., bears N. 18° 45' W., 196 lks. dist., mkd. T4S R8E S19 BT.

No suitable trees in SE. quadrant.

Thence

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 8 E.

Chains.	
	S. 89° 51' W., on a true line bet. secs. 19 and 30. Over rolling land, through scattering desert growth.
.20	Enter shallow wash, course S. 60° W.
7.70	Leave wash, course SW.
16.00	Wash, 20 lks. wide, course SW.
16.70	Channel of same wash, 10 lks. wide, course SW.
20.02	No trace found of E. 1/16 sec. cor.
20.80	Fence parallel to railroad track, enter right of way.
23.00	Telegraph line, parallel to railroad.
24.30	Middle of single track of the S. P. Ry., bears N. 68° W. and S. 63° E. on curve.
26.00	Telegraph line, parallel to railroad.
26.15	Right of way fence, parallel to railroad.
29.00	Transmission line, bears NE. and SW.
40.04	No trace found of the 1/4 sec. cor. Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with a glass bottle deposited at the base, for 1/4 sec. cor., with brass cap mkd. $\frac{1}{4} \begin{array}{l} S19 \\ S30 \end{array}$ 1932
47.40	Road, bears NW. and SE.
49.00	Indian house, bears S. 1.00 ch. dist.
49.80	Fence, bears N. 80° W. and S. 80° E.
51.00	An old shed on line.
51.70	Fence, bears N. and S.
60.06	No trace found of the W. 1/16 sec. cor. Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with a glass bottle deposited at the base, for W. 1/16 sec. cor., with brass cap mkd. $W \frac{1}{16} \begin{array}{l} S19 \\ S30 \end{array}$ 1932
	Indian allotment iron pipe, 1 1/2 ins. diam., bears N. 8 lks. dist. Fence, bears N. and S.
70.00	Leave undergrowth and enter cultivated land, bears N. and S.
75.80	Fence, bears N. and S.
80.08	The cor. of secs. 19 and 30.

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 8 E.

BOOK 3959

Chains.

Land, rolling and level.
Soil, landy loam and gravelly; 1st and 2nd rates.
Timber, mesquite and palo verde; undergrowth, same with
greasewood.

Thence

South, along the W. bdy. of sec. 30, T. 4 S., R. 8 E.

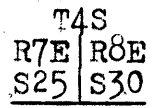
Over level cultivated land.

3.77 The cor. of secs. 24 and 25, T. 4 S., R. 7 E., which is
an iron post, 1 in. diam., firmly set 2 ins. below the
surface, and marked as described in the official re-
cord.

4.50 Irrigation ditch, 10 lks. wide, 3 ft. deep, course NW.

7.57 The original meander cor. for secs. 25 and 30, which is
an iron post, 1 in. diam., firmly set, broken off 10
ins. below the surface, top part of post lying along-
side, with brass cap marked as described in the offi-
cial record. North and alongside

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in
the ground, with the original brass cap deposited at
the base, for meander cor. of fracl. secs. 25 and 30,
with brass cap mkd.



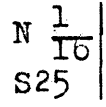
M C
1932

Descend bank, 5 ft. high, bears E. and W., leave culti-
vated land and enter bottom land, scattering cottonwood
and undergrowth.

7.70 Fence, bears E. and W.

23.77 20.00 chs. S. of the cor. of secs. 24 and 25, T. 4 S.,
R. 7 E.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in
the ground, for N. 1|16 sec. cor. of sec. 25, with
brass cap mkd.



1932

from which

A cottonwood, 12 ins. diam., bears S. 51° 00' W., 44
lks. dist., mkd. N. 1|16 S25 BT

A cottonwood, 10 ins. diam., bears N. 19° 45' W., 146
lks. dist., mkd. N 1|16 S25 BT

24.10 Descend sloping bank, 2 ft. high, bears E. and W.

24.30 Road, bears NW. and SE.

25.02 Record distance south of the original meander cor. for
secs. 25 and 30 as determined in 1919. No trace of mean-
der cor. found.

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 8 E.

Chains.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for meander cor. of sec. 30, with brass cap mkd.

T4S	R8E
S30	MC

1932

from which

A cottonwood, 10 ins. diam., bears N. 85° 00' E., 96 lks. dist., mkd. T4S R8E S30 MC BT

A cottonwood, 10 ins. diam., bears S. 47° 00' E., 68 lks. dist., mkd. T4S R8E S30 MC BT

36.24 The right bank of the Gila River, vertical, 5 ft. high, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for meander cor. for secs. 25 and 30, with brass cap mkd.

T4S	R8E
R7E	S30
S25	MC

1932

from which

A cottonwood, 10 ins. diam., bears N. 41° 00' E., 85 lks. dist., mkd. T4S R8E S30 MC BT

A cottonwood, 10 ins. diam. bears N. 39° 30' W., 17 lks. dist., mkd. T4S R7E S25 MC BT

Land, level.

Soil, silt loam; 1st rate.

Timber, cottonwood; undergrowth, mesquite and arrowweed.

Thence from the $\frac{1}{4}$ sec. cor. bet. secs. 19 and 30.

South, on the N. and S. center line of sec. 30.

4.55 Road, bears NW. and SE.

4.90 Fence, bears E. and W.

5.01 Indian allotment cor., an iron pipe, $1\frac{1}{4}$ ins. diam.

10.27 Transmission line, bears NE. and S. along line.

20.14 Mid-point. No trace found of the center N. $1\frac{1}{16}$ sec. cor. Alongside of an indian allotment post, an iron pipe $1\frac{1}{4}$ ins. diam.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for center N. $1\frac{1}{16}$ sec. cor., with brass cap mkd.

C	S30
N $\frac{1}{16}$	C

1932

32.30 Irrigation ditch, 8 lks. wide, course NW. Fence, bears NW. and S. along line.

Survey, Resurvey and subdivision-of-section Lines,
T. 4 S., R. 8 E.

BOOK 3959

Chains.

40.27 The center $\frac{1}{4}$ sec. cor., which is an iron post, 1 in. diam. 8 ins. above ground, firmly set, and marked as described in the official record.

42.30 Fence, bears NE. and SW.

45.95 Fence, bears NW. and SE.

49.80 Descend bank, 4 ft. high, bears NW. and SE. Thence over level bottom land, through scattering cottonwood.

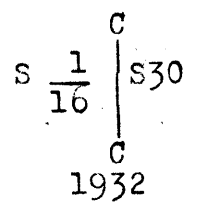
52.40 Descend bank, 2 ft. high, bears NW. and SE. Leave fence, bears NW.

53.00 Road, bears NW. and SE.

53.50 Bank, 3 ft. high, bears NW. and SE. Thence over low sandy bottom land.

60.27 No trace found of the center S. $\frac{1}{16}$ sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for center S. $\frac{1}{16}$ sec. cor., with brass cap mkd.



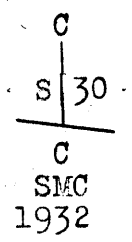
from which

A cottonwood, 12 ins. diam., bears S. $35^{\circ} 30' E.$, 276 lks. dist., mkd. CS $\frac{1}{16}$ S30 BT

A cottonwood, 6 ins. diam., bears S. $65^{\circ} 30' W.$, 35 lks. dist., mkd. CS $\frac{1}{16}$ S30 BT

63.87 The right bank of the Gila River, sloping, 2 ft. high, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with a glass bottle deposited at the base, for special meander cor., with brass cap mkd.



Thence from the W. $\frac{1}{16}$ sec. cor. bet. secs. 19 and 30.

South, on the W. $\frac{1}{16}$ sec. line of sec. 30.

Over level land, through mesquite and along fence.

17.40 Irrigation ditch, 8 lks. wide, course NW.

17.90 Corner of fences, bear N., S, and NW.

18.20 Record distance for old meander cor. No trace found.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for special meander cor., with brass cap mkd.

6.

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 8 E.

Chains.

$$\begin{array}{c} W \\ | \\ S \ 30 \\ \hline \end{array}$$

W.
SMC
1932

from which

A cottonwood, 20 ins. diam., bears S. 77° 45' E., 83
lks. dist., mkd. S30 SMC BT

A cottonwood, 30 ins. diam., bears S. 51° 45' W., 29
lks. dist., mkd. S30 SMC BT

20.13 Descend bank 3 ft. high and enter bottom, bears E. and W.
At a point S. 89° 51' W. of the restored meander cor. on
the E. and W. center line of sec. 30, hereinafter de-
scribed.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in
the ground, for NW. 1/16 sec. cor., with brass cap mkd.

$$NW \ \frac{1}{16} \ S30$$

1932

from which

A cottonwood, 16 ins. diam., bears N. 65° 30' E., 142
lks. dist., mkd. NW 1/16 S30 BT

A cottonwood, 12 ins. diam., bears S. 18° 15' W., 187
lks. dist., mkd. NW 1/16 S30 BT

40.13 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in
the ground, for center W. 1/16 sec. cor., with brass
cap mkd.

$$\begin{array}{c} W \ \frac{1}{16} \\ | \\ C \ \frac{1}{16} \ S30 \ C \end{array}$$

1932

from which

A cottonwood, 9 ins. diam., bears S. 72° 30' E., 5
lks. dist., mkd. CW 1/16 S30 BT

A cottonwood, 10 in. diam., bears N. 33° 30' W., 26
lks. dist., mkd. CW 1/16 S30 BT

42.50 Descend bank, 2 ft. high, bears NW. and SE.

45.30 Leave fence, bears E.

46.10 Road, bears E. and NW.

47.60 Descend vertical bank, 5 ft. high, bears E. and W. Enter
low sandy bottom.

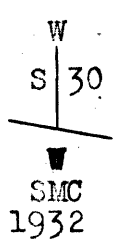
49.33 The right bank of the Gila River, vertical, 4 ft. high,
bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in
the ground, for special meander cor., with brass cap
mkd.

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 8 E.

BOOK 3959

Chains.



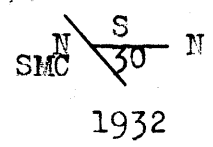
from which

A cottonwood, 5 ins. diam., bears N. 29° 00' E., 25 lks. dist., mkd. BT

A cottonwood, 6 ins. diam., bears N. 45° 30' W., 61 lks. dist., mkd. S30 SMC BT

Thence from the center N. 1/16 sec. cor. of sec. 30. S. 89° 51' W., on the E. and W. center line of the NW 1/4. Over level cultivated land.

- 7.00 Fence, bears NE. and SW.
- 13.50 Irrigation ditch, 8 lks. wide, 3 ft. deep, course NW. Leave cultivated land and enter scatterin cottonwood.
- 14.55 Record distance for original meander cor. No trace found. Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for special meander cor., with brass cap mkd.



from which

A cottonwood, 14 ins. diam., bears S. 50° 15' E., 122 lks. dist., mkd. S30 SMC BT

A cottonwood, 16 ins. diam., bears S. 63° 45' W., 45 lks. dist., mkd. S30 SMC BT

Descend sloping bank, 3 ft. high, and enter bottom land, bears NW. and SE.

- 14.85 Fence, bears NW. and SE.
- 20.04 The NW. 1/16 sec. cor.

Thence from the center 1/4 sec. cor. of sec. 30. N. 89° 48' W., on the E. and W. center line of sec. 30. Over level cultivated land.

- 6.00 Descend bank, 5 ft. high, bears NW. and SE. Enter bottom land and cottonwood.
- 6.75 Center of corral, 1.00 ch. in diam.
- 15.00 Leave cottonwood timber and enter clearing, bears N. and S.
- 20.05 The center W. 1/16 sec. cor.
- 21.10 Descend sloping bank, 2 ft. high, bears NW. and SE.

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 8 E.

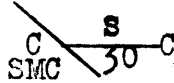
Chains.

22.65 Road, bears NW. and SE.

26.45 Road, bears NW. and SE.

35.36 The right bank of the Gila River, vertical, 5 ft. high, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for special meander cor., with brass cap mkd.



1932.

from which

A cottonwood, 10 ins. diam., bears N. $68^{\circ} 15'$ E., 63 lks. dist., mkd. S30 SMC BT

A cottonwood, 8 ins. diam., bears S. $86^{\circ} 00'$ E., 95 lks. dist., mkd. S30 SMC BT

Thence I retrace the meanders in the $W\frac{1}{4}$ of sec. 30, as surveyed by Guy P. Harrington, U. S. Surveyor, in 1919.

From the restored meander cor. for sec. 30 on the W. bdy. of the Tp.

East, 20.00 chs.

N. $47^{\circ} 18'$ E., 7.40 chs. to a point from which the restored meander cor. on the E. and W. center line of the $NW\frac{1}{4}$, bears S. $75^{\circ} 00'$ E., 10 lks. dist. The true line is determined by the method of broken boundaries.

Returning to the restored meander cor. of sec. 30 on the W. bdy. of the Tp.

Thence over level land, through cottonwood timber.

✓ S. $89^{\circ} 57'$ E., 20.07 chs. At 0.30 chs. road, bears NW. and SE.
9.55 chs. ascend bank, 2 ft. high, bears NW. and SE.
20.00 chs. fence, bears N. and S.

✓ N. $47^{\circ} 29'$ E., 7.41 chs. At 7.25 chs. fence, bears NW. and SE. ascend bank, 2 ft. high. To the special meander cor. on the E. and W. center line of the $NW\frac{1}{4}$.

Thence from the special meander cor. on the N. and S. center line of the $NW\frac{1}{4}$ of sec. 30, I retrace 1911 meanders as follows:

S. $70^{\circ} 55'$ E., 5.83 chs. To the special meander cor. on the E. and W. center line of the $NW\frac{1}{4}$.

S. $71^{\circ} 45'$ E., 4.21 " . Record for angle point. Point falls in irrigation ditch, no cor. reestablished.

S. $9^{\circ} 23'$ E., 17.02 " . Record for angle point, No trace of cor. found. Point falls in threshing pit, No cor. reestablished.

S. $11^{\circ} 56'$ W., 20.25 " . Point for original angle point falls in Gila River bed. Line abandoned at this point.

Meanders, T. 4 S., R. 8 E.

BOOK 3959

Meanders of the right bank of Gila River, down stream.

I commence at the special meander cor. on the N. and S. center line of sec. 30.

Thence with meanders in sec. 30.

Over level sandy bottom land, through scattering timber and undergrowth.

N. 58° 45' W., 20.51 chs. At 20.40 chs. road, bears N. and S. Bank 3 ft. high.

N. 33° 20' W., 4.56 " . To special meander cor. on the W. 1/16 sec. line.

N. 55° 15' W., 5.60 " .

N. 65° 30' W., 8.40 " . Bank 5 ft. high.

N. 50° 12' W., 4.00 " . To special meander cor. on the E. and W. center line.

N. 51° 00' W., 6.04 " . To the meander cor. for secs. 25 and 30 on the W. bdy. of the Tp., hereinbefore described.

Land, level.

Soil, light sandy silt loam; 1st rate.

Timber, cottonwood; undergrowth, same with arrowweed and tamerisk.

For final test of the solar attachment on a meridian determined by observation on Polaris, see the final test in the field notes for T. 4 S., R. 6 E. of this group. November 10, 1932.

General Description.

The area included within this extension survey is a portion of the W $\frac{1}{2}$ of sec. 30. The land is level bottom with a light sandy and silt loam soil, 1st rate.

A good growth of cottonwood is found with more or less undergrowth of mesquite, arrowweed and tamerisk.

About 20 acres in the W $\frac{1}{2}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ has been cleared and is ready for cultivation.

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CERTIFICATE OF UNITED STATES SURVEYOR

743 R

I, Francis E. Joy, Cadastral Engineer, U. S. ~~Surveyor~~ hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Arizona bearing date of the 28th day of September, 1932, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed all those parts or portions of~~ independently resurveyed and extended lines subdividing omitted land bordering Gila River, and subdivided section, Township 4 South, Range 8 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 all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Phoenix, Arizona,
January 10, 1933.

Francis E. Joy
U. S. Cadastral Engineer. *ZH ZS ZS Surveyor.*

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado, MAR 23 1933, 1933

The foregoing field notes of the ~~surveyor~~ dependent resurvey and extension of lines subdividing omitted land bordering Gila River, and the subdivision of section, Township 4 South, Range 8 East, of the Gila and Salt River Meridian, in the State of Arizona,

executed by Francis E. Joy, U.S. Cadastral Engineer, under his special instructions dated September 28, 1932, 1932, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Wm. H. Simon
U. S. Supervisor of Surveys.

~~I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.~~

U. S. Supervisor of Surveys.