

Book F

FIELD NOTES

BOOK 3956

3956

Of the Dependent Resurvey and Extension of Lines Subdividing Omitted
 Land Bordering Gila River, and the Subdivision of Section,
 Township 4 South, Range 5 East.

3956

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 April 4, 1932,
 19, issued by the District Cadastral Engineer to govern surveys included in Group
 No. 175, which were approved by the Commissioner of the General Land
 Office, April 15, 1932, and Assignment Instructions dated April 4, 1932.

Survey commenced June 15, 1932.

Survey completed June 17, 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

FORM NO. 7 (REV. 1-1976)

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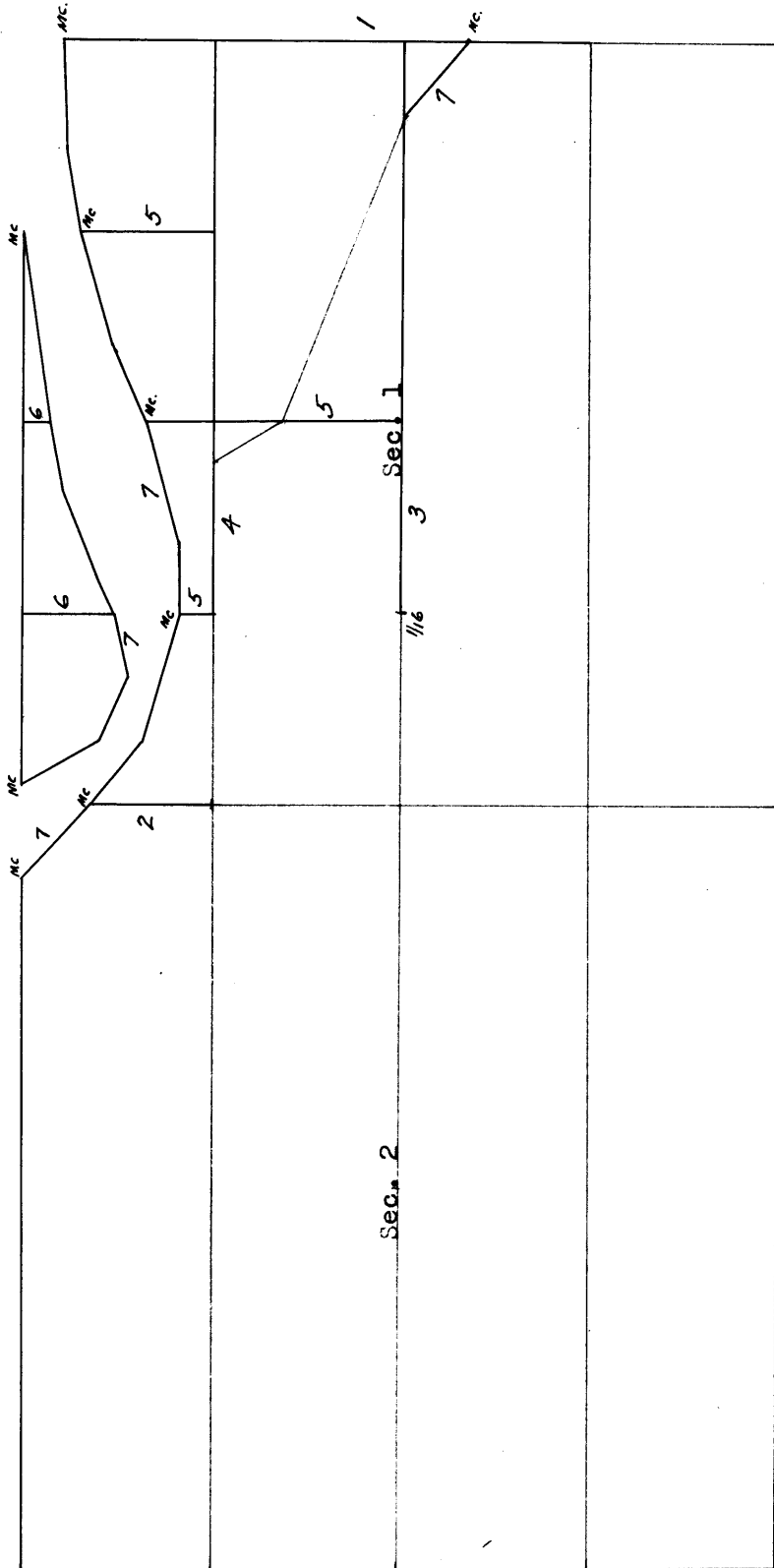
1A

INDEX DIAGRAM

Township 4 South, Range 5 East.

1932.

BOOK 3956



Black indicates lines surveyed or resurveyed under this group.

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

Chains.

The extension surveys and necessary resurveys to cover certain lands along the Gila River, omitted from the original survey of T. 4 S., R. 5 E. as surveyed by Guy P. Harrington, U. S. Surveyor, in 1911, were executed with a light mountain transit made by Buff and Buff, Serial No. 16723, constructed in accordance with the standard specifications of the General Land Office. For complete description of instrumental equipment, see the field notes for T. 4 S., R. 5 E. of this group, Book A.

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, April 4, 1932.

The following described meridian determined by Polaris observation and the meridian described in the field notes for T. 4 S., R. 5 E., Book A, was used for testing the solar attachment throughout this group, consisting of Tps. 3 S., Rs. 4, 5, and 6 E., and Tps. 4 S., Rs. 4, 5, 6, 7 and 8 E.

May 8, 1932, in camp near the cor. of secs. 5, 6, 7 and 8, T. 4 S., R. 6 E., latitude 33° 07' 30" N., longitude 111° 46' W., I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument produces a bearing of N. 19° 57' E. to a cactus on top of hill about 3 miles distant.

At 6h 47m p.m., l.m.t., by my watch, which reads correct local mean time for the longitude of my station, determined by radio signals, I make an hour angle observation on Polaris west of the meridian, making six observations, three each with the telescope in direct and reversed positions, reading the horizontal angle from said cactus in the direction of W-N to Polaris.

Local mean time of observation	- - - -	6h 47m p.m.
Mean horizontal angle, cactus to star	-20° 59' 40" W-N	
Azimuth of Polaris	- - - - -	1° 2' 24" E.
True bearing to cactus	- - - - -	N. 19° 57' 16" E.

I repeat the tests of the arcs daily by noon observations, and verify the meridional indications at frequent intervals throughout the survey.

I commence at the S. 1|16 sec. cor. bet. secs. 1 and 6 on the E. bdy. of T. 4 S., R. 5 E., which is an iron post, 1 in. diam., 12 ins. above ground, firmly set, and marked as described in the official record.

North, bet. secs. 1 and 6.

Over level land, through scattering mesquite.

.50 Wire fence, bears NE. and SW.

2.90 Descend bank, 3 ft. high, bears NW. and SE. Leave mesquite and enter bottom land.

4.00 An old road, bears NW. and SE.

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

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a glass bottle deposited at the base, for meander cor. of secs. 1 and 6, with brass cap mkd.

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 5 E.

BOOK 3956

Chains.

M C

S1	S6
R5E	R6E
T4S	

1932

20.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with a washed rock, 3 x 2 x 2 ins., mkd. X, deposited at the base, cor. $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S1	S6
----	----

1932

34.90 Road, bears NE. and SW.

37.90 Descend bank, 2 ft. high, bears NE. and SW. Enter low sandy bottom.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a washed rock, 4 x 3 x 3 ins., mkd. X, deposited at the base, for N. 1|16 sec. cor., with brass cap mkd.

N $\frac{1}{16}$

S1	S6
----	----

1932

55.94 The left bank of the Gila River, low and sloping, bears E. and W.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a washed rock, 6 x 5 x 3 ins., mkd. X, deposited at the base, for meander cor. of secs. 1 and 6, with brass cap mkd.

M C

S1	S6
R5E	R6E
T4S	

1932

Land, level.

Soil, sandy and silt loam; 1st and 3rd rates.

No timber; undergrowth, cottonwood, arrowweed and tamerisk.

Thence from the N. 1|16 sec. cor. bet. secs. 1 and 2, which is an iron post, 1 in. diam., flush with surface, firmly set, and marked as described in the official record.

N. 0° 01' W., bet. sec. 1 and 2.

Over level land through scattering mesquite.

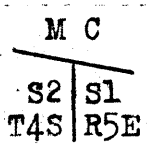
10.10 Waste ditch, 10 lks. wide, course NE.

Survey, Resurvey and Subdivision of section Lines,
T. 4 S., R. 5 E.

Chains.
13.10

The left bank of the Gila River, 4 ft. high, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a washed stone, 6 x 3 x 3 ins., mkd. X, deposited at the base, for meander cor. of secs. 1 and 2, with brass cap mkd.



1932

Land, level.
Soil, loam; 1st rate.
Timber, mesquite; undergrowth, same with greasewood.

Thence from the center W. 1|16 sec. cor. of sec. 1, which is an iron post, 1 in. diam., firmly set flush with the surface, and marked as described in the official record.

S. 89° 55' E., on the E. and W. center line.

Over level land, through mesquite.

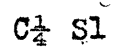
.90 Middle of waste ditch, 100 lks. wide, 6 ft. deep, course NW.

6.70 Irrigation ditch, 20 lks. wide, course NW.

18.30 Descend bank, 3 ft. high, bears NW. and SE. Enter bottom land and leave mesquite.

20.00 Record distance for the center 1/4 sec. cor. No trace.

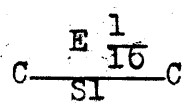
Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a heavy washer, 3 ins. diam., deposited at the base, for center 1/4 sec. cor., with brass cap mkd.



1932

40.00 Record distance for original center E. 1|16 sec. cor. No trace found.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a washed rock, 4 x 3 x 3 ins., mkd. X, deposited at the base, for center E. 1|16 sec. cor., with brass cap mkd.



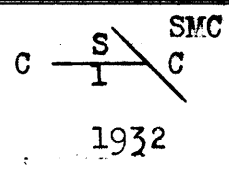
1932

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

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a washed rock, 4 x 3 x 3 ins., mkd. X, deposited at the base, for special meander cor., with brass cap mkd.

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 5 E.

Chains.



59.83 The $\frac{1}{4}$ sec. cor. bet. secs. 1 and 6 on the E. bdy. of the Tp., hereinbefore described.

Thence from the NW. $\frac{1}{16}$ sec. cor. of sec. 1, which is an iron post, 1 in. diam., firmly set flush with the surface, and marked as described in the official record.

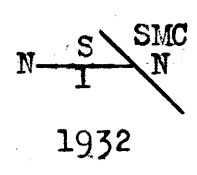
S. $89^{\circ} 55'$ E., on the N. $\frac{1}{16}$ sec. line.

Over level land through mesquite and undergrowth.

3.90 Descend bank, 4 ft. high, bears NW. and SE. Leave mesquite and enter bottom land.

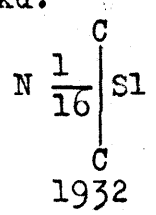
16.00 Record distance for old meander cor. No trace found.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a washed rock, 5 x 4 x 4 ins., mkd. X, deposited at the base, for special meander cor., with brass cap mkd.



19.96 At a point N. of the restored meander cor. on the N. and S. center line, hereinafter described

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a washed rock, 5 x 4 x 3 ins., mkd. X, deposited at the base, for center N. $\frac{1}{16}$ sec. cor., with brass cap mkd.



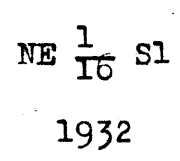
from which

A cottonwood, 6 ins. diam., bears S. $14^{\circ} 45'$ E., 64 lks. dist., mkd. CN $\frac{1}{16}$ S1 BT

Thence through dense cottonwood saplings.

39.97 At a point North of the center E. $\frac{1}{16}$ sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a washed rock, 6 x 5 x 3 ins., mkd. X, deposited at the base, for NE. $\frac{1}{16}$ sec. cor., with brass cap mkd.



44.00 Leave cottonwood thicket, bears NW. and SW.

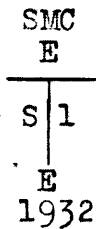
59.80 The N. $\frac{1}{16}$ sec. cor. bet. secs. 1 and 6 on E. bdy. of Tp., hereinbefore described.

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 5 E.

Chains.

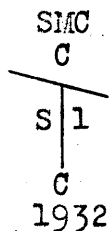
Thence from the NE. 1/16 sec. cor. of sec. 1.
North, on the N. and S. center of the NE 1/4.
Over sandy bottom land, through brush.

14.01 The left bank of the Gila River, low and sloping, bears
E. and W.
Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in
the ground, with a glass bottle deposited at the base,
for special meander cor., with brass cap mkd.



Thence from the center 1/2 sec. cor. of sec. 1.
North, on the center line.
Over level bottom land, through low brush.

12.55 Record distance for old meander cor. No trace found.
Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in
the ground, with a washed rock, 5 x 4 x 3 ins., mkd.
X, deposited at the base, for special meander cor.,
with brass cap mkd.

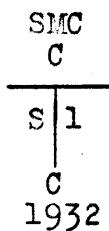


18.00 Descend bank, 2 ft. high, bears E. and W. Enter low
sandy bottom and arrowweed.

19.98 The center N. 1/16 sec. cor.

26.85 The left bank of the Gila River, low and sloping, bears
E. and W.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in
the ground, with a washed rock, 6 x 4 x 4 ins., mkd.
X, deposited at the base, for special meander cor.,
with brass cap mkd.



Thence from the NW. 1/16 sec. cor. of sec. 1.
North, on the N. and S. center line of the NW 1/4.

6.

Survey, Resurvey and Subdivision-of-section Lines,
T. 4 S., R. 5 E.

Chains.

Over level land through mesquite brush.

3.24

The left bank of the Gila River, 8 ft. high, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with a washed rock, 10 x 6 x 4 ins., mkd. X, deposited at the base, for special meander cor.; with brass cap mkd.



Thence from the 1/4 sec. cor. bet. secs. 1 and 36 on the N. bdy. of the Tp., heretofore described

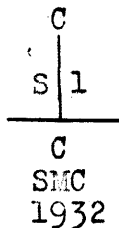
South, on the N. and S. center line of sec. 1.

Over low bottom land.

3.00

The right bank of the Gila River, 2 ft. high, bears E. and W.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a washed rock, 8 x 4 x 4 ins., mkd. X, deposited at the base, for special meander cor., with brass cap mkd.



Thence from the W. 1/10 sec. cor. bet. secs. 1 and 36 on the N. bdy. of the Tp., heretofore described.

South, on the N. and S. center line of the NW 1/4 of sec. 1.

Over low level bottom land through scattering tamerisk.

9.90

The right bank of the Gila River, low and sloping, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a washed rock, 6 x 4 x 4 ins., mkd. X, deposited at the base, for special meander cor., with brass cap mkd.



Survey, Resurvey and subdivision-of-section Lines,
T. 4 S., R. 5 E.

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Chains.

Thence from the restored meander cor. on the E. and W. center line of sec. 1, I retrace old meanders as follows:

S. 50° 18' E., 9.72 chs. To the restored meander cor. of secs. 1 and 6, on the E. bdy. of the Tp., hereinbefore described.

Meanders, T: 4 S., R. 5 E.

Meanders of the left bank of Gila River, up stream.

I commence at the meander cor. bet. secs. 2 and 35 on the N. bdy. of T. 4 S., R. 5 E., heretofore described.

Thence with meanders in sec. 2.

Over level land, through mesquite.

S. 46° 55' E., 10.04 chs. To the meander cor. for secs. 1 and 2.

Land, level.

Soil, loam; 1st rate.

Timber and undergrowth, mesquite.

Thence in sec. 1.

Over level land, through dense mesquite.

S. 49° 17' E., 9.00 chs. Bank 8 ft. high.

S. 72° 55' E., 13.78 " . To the special meander cor. on the W. 1/16 sec. line.

N. 87° 45' E., 8.38 " . At 0.70 chs. descend bank, 6 ft. high, bears SE. Thence low bottom land through arrowweed.

N. 74° 11' E., 12.04 " . To the special meander cor. on the N. and S. center line.

N. 67° 30' E., 9.83 " .

N. 72° 55' E., 11.44 " . To the special meander cor. on the E. 1/16 sec. line.

N. 82° 14' E., 9.53 " .

N. 86° 10' E., 10.40 " . To the meander cor. bet. secs. 1 and 6 on the E. bdy. of the Tp., hereinbefore described.

Land, level.

Soil, loam and sandy silt; 1st and 3rd rates.

Timber, mesquite; undergrowth, arrowweed, tamerisk and mesquite.

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

I commence at the meander cor. bet. secs. 1 and 36 on the N. bdy. of the Tp., heretofore described.

Thence with meanders in sec. 1.

Over low bottom land, through scattering undergrowth.

S. 32° 00' E., 9.82 chs.

S. 67° 00' E., 7.11 " .

N. 79° 13' E., 6.34 " . To the special meander cor. on the W. 1/16 sec. line.

N. 59° 51' E., 4.01 " .

N. 69° 15' E., 10.11 " .

Meanders, T. 4 S., R. 5 E.

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

N. 79° 33' E., 7.20 chs. to the special meander cor. on the N. and S. center line.

N. 81° 30' E., 20.23 " . To the E. 1/16 sec. cor. and meander cor. for secs. 1 and 36 on the N. bdy. of the Tp., heretofore described.

Land, level.

Soil, sandy; 3rd rate.

No timber; undergrowth, tamerisk and arrowweed.

FINAL TEST OF SOLAR ATTACHMENT.

June 18: At camp near the cor. of secs. 5, 6, 7 and 8, T. 4 S., R. 6 E., at 8h 30m a.m., app.t., I set off 33° 07' 30" N., on the lat. arc; 23° 24' 30" N., on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 4h 00m p.m., app.t., I set off 33° 07' 30" N. on the lat. arc; 23° 25' N., on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

June 18, 1932.

GENERAL DESCRIPTION.

That portion of T. 4 S., R. 5 E. included within the foregoing survey is level, nearly void of timber, but supports considerable undergrowth consisting of arrowweed, tamerisk and cottonwood saplings.

The soil along and near the original meander line is a silt loam, 1st rate, while nearer the river channel on both sides the soil is light and sandy, 3rd rate.

There are no settlements or improvements within the new area involved.

T43 RSE.

BOOK 3956

4-680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
John B. McClung	Chainman.
Calvin McClung	Chainman.
McMillan Pollock	Moundman.
Theodore Smith	Flagman.

CERTIFICATE OF UNITED STATES SURVEYOR

I, Francis E. Joy, U. S. ~~Surveyor~~ Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Arizona bearing date of the 4th day of April, 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 the corners or points of~~ independently resurveyed and extended lines subdividing omitted land bordering Gila River, and subdivided section, Township 4 South, Range 5 East,

River of the Gila and Salt 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 12, 1932.

Francis E. Joy
U. S. Cadastral Engineer.

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado, MAR 23 1932

The foregoing field notes of the ~~surveyed~~ independent resurvey and extension of lines subdividing omitted land bordering Gila River, and subdivision of section, Township 4 South, Range 5 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 April 4, 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.

Monte H. Hanson
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~~