

1.
1949
LUCAS 4839

FIELD NOTES

Of the Resurvey of a Portion of the South Boundary

and

The Survey of a Portion of the Subdivisional and Meander Lines

of

Township 3 North, Range 7 East.

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Ty White and Claude F. Warner,

Cadastral Engineers

Under special instructions dated December 14, 1948, which provided for the surveys included under Group No. 260, bearing the approval of the ~~Commissioner of the General Land Office~~ under date of January 11, 1949 and assignment instructions dated March 10, 1949

Survey commenced March 23, 1949

Survey completed March 31, 1949

2.
18

BOOK 4369
INDEX DIAGRAM.

Township 3 North, Range 7 East.

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

Handwritten annotations in the bottom row (31-36):

- Between 33 and 34: a wavy line with '13' written above it.
- Between 34 and 35: a wavy line with '12' written above it.
- Between 35 and 36: a wavy line with '12' written above it.
- Below 33: '11' and '2'.
- Below 34: '9' and '3'.
- Below 35: '6' and '4'.

T. 3 N., R. 7 E.

4060

The east four miles of the north boundary of T. 2 N., R. 7 E. were surveyed by Theodore Vander Meer, Transitman, in 1930 and monumented for T. 2 N. only. The following field notes are those of the resurvey of a portion of this line for the purpose of establishing corners for T. 3 N. only, and the survey of a portion of the subdivisional lines of T. 3 N., R. 7 E., and the meanders of the Salt River through secs. 33, 34 and 35.

The survey is executed with light mountain solar transits made by Buff and Buff, Serial Nos. 16724 and 23816, both constructed in accordance with the standard specifications of the Bureau of Land Management. The instruments were in good condition, and having been placed in satisfactory adjustment prior to the beginning of the survey, were tested and found free from appreciable error.

All azimuths in this record were determined by solar transit method. The measurements were made with narrow steel tapes, 5 chains in length, graduated to tenths of a link for the first 10 links, every link for the remainder of the first 100 links, and the balance at intervals of 10 links. The tapes were tested by comparison with a 1 chain standard steel tape and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained by clinometers in good adjustment; the horizontal equivalents only are entered in this field note record.

The geographic position of the $\frac{1}{4}$ sec. cor. of sec. 3 only, T. 2 N., R. 7 E., G. and S. R. Mer., Arizona, as determined from the data given with the special instructions is latitude $33^{\circ} 33' 04''$ N., and longitude $111^{\circ} 37' 25''$ W.

March 22, 1949, at the $\frac{1}{4}$ sec. cor. of sec. 3 only of T. 2 N., R. 7 E. at 6h 07m 47s p.m., l.m.t. I make an hour angle observation of Polaris west of the meridian, for azimuth and latitude, making four observations, two each with the telescope in direct and reversed positions, observing simultaneously the vertical angle to Polaris and the horizontal angle from the west edge of a Sahuaro Cactus approximately 2 miles northerly, N-E to Polaris. My watch reads correct Mountain Standard Time, as checked by radio time signals.

Mean watch time of observation	6h 34m 17s
Watch fast of l.m.t.	0h 26m 30s
Azimuth of Polaris	$1^{\circ} 03' 54''$
True bearing of reference point	N. $2^{\circ} 33' 54''$ W.
Mean observed vertical angle	$33^{\circ} 57' 40''$
Reduced latitude	$33^{\circ} 33' 16''$ N.

March 27, 1949, every hour from 7 to 10 a.m. and from 2 to 5 p.m., we make the proper settings on the arcs of the solar attachments and ascertain that the resulting orientation of the instruments, when compared with the meridian established by Polaris observation, have a maximum error of less than $1' 30''$.

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

The mean magnetic declination is $14\frac{1}{2}^{\circ}$ E.

From the above data the geographic position of the southeast corner of section 35 is:

Latitude $33^{\circ} 33' 04''$ N., Longitude $111^{\circ} 35' 47''$ W.

Resurvey of a Portion of the South Boundary,
T. 3 N., R. 7 E.

Chains

Amendment of the Survey as Executed by
Theodore Vander Meer, Transitman, in 1930.

The cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the
Tp. is monumented with a standard iron post, 1 in. diam.,
firmly set in a mound of stone. The brass cap has been
removed from the iron post.

At the corner point,

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the
ground, with brass cap mkd.

T 3 N R 7 E
S 32 | S 33
S 5 | S 4
T 2 N
1949

raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
and bury the original iron post alongside the iron post.

Thence

EAST, along the S. bdy. of sec. 33.

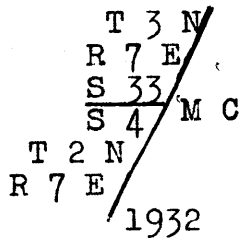
Over gently rolling bottom land, through scattering timber
and dense undergrowth.

- 1.00 The meander cor. of secs. 4 and 33, monumented with an
iron post, 1 in. diam., firmly set, mkd. and witnessed
as described in the official record.
- 2.35 Descend a gravel bank into slough.
- 4.75 The meander cor. of sec. 4 only, on the left bank of a
slough, former channel of the river, monumented with an
iron post, 1 in. diam., firmly set, mkd. and witnessed as
described in the official record.
- 10.85 Dirt bank, 10 ft. high, bears N. 45° W. and S. 45° E.
- 34.94 The $\frac{1}{4}$ sec. cor. of sec. 4 only of T. 2 N., monumented with
an iron post, 1 in. diam., firmly set, mkd. and witnessed
as described in the official record.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of sec. 33 only.
Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the
ground, with brass cap mkd.
- $\frac{1}{4}$ S 33
1949
- raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
- 50.91 The meander cor. of sec. 4 only, of T. 2 N., on the right
bank of the Salt River, course S. 45° W., which is
monumented with an iron post, 1 in. diam., firmly set,
mkd. and witnessed as described in the official record.
- Additionally mark the brass cap, which now reads

Resurvey of a Portion of the South Boundary,
T. 3 N., R. 7 E.

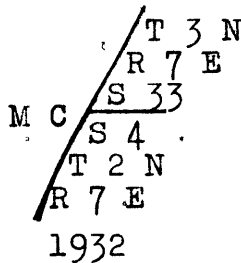
1932

Chains



56.43 The meander cor. of sec. 4 only of T. 2 N., on the left bank of the river, monumented with an iron post, 1 in. diam., firmly set, mkd. and witnessed as described in the official record.

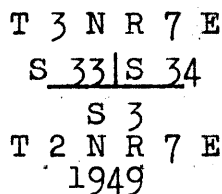
Additionally mark the brass cap, which now reads



70.00 Dirt bank, 15 ft. high, bears N. 60° E. and S. 60° W.; thence, across rolling bench land.

74.94 The cor. of secs. 3 and 4 only, of T. 2 N., monumented with an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record.

80.00 Point for the cor. of secs. 33 and 34 only.
Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground with brass cap mkd.



raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Land, W. 70 chs., rolling bottom land; remainder, rolling bench land.
Soil, W. 70 chs., sandy and gravelly; remainder, gravelly, heavy loam.
Timber, cottonwood, mesquite and palo verde; undergrowth, arrow-weed.

EAST, along the S. bdy. of sec. 34.

Over rolling bench land, through scattering timber.

18.40 Descend dirt bank, 17 ft. high, bears S. 60° E. and N. 60° W.

21.10 Wash, 1½ chs. wide, course N.

30.60 Ascend dirt bank, 25 ft. high, bears N. 60° E. and S. 60° W.

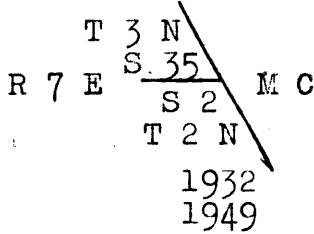
34.94 The ¼ sec. cor. of sec. 3 only, of T. 2 N., monumented with an iron post, 1 in. diam., firmly set, mkd. and witnessed as described in the official record.

Resurvey of a Portion of the South Boundary,
T. 3.N., R. 7 E.

Chains	
40.00	Point for the $\frac{1}{4}$ sec. cor. of sec. 34 only. Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with brass cap mkd. $\frac{1}{4}$ S 34 1949 Bury a granite stone, marked X, alongside the iron post.
40.45	Road, bears N. 80° E. and S. 80° W.
44.20	Road, bears SW. and NE. to a junction with a road which bears E. and W.
74.94	The cor. of secs. 2 and 3 only of T. 2 N., monumented with an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record.
77.90	Road, bears SE. and NW.
80.00	Point for the cor. of secs. 34 and 35 only. Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd. T 3 N R 7 E S 34 S 35 S 2 T 2 N R 7 E 1949 raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Land, rolling bench land. Soil, gravelly, heavy loam. Timber, mesquite and palo verde; undergrowth, greasewood.
	----- EAST, along the S. bdy. of sec. 35. Over rolling bench land with a general N. slope; through scattering timber and undergrowth.
9.30	Graded road, bears N. 60° W. and S. 60° E.
13.70	Road, bears N. and S.
14.10	Wire fence, bears N. and S.
28.30	Wire fence, bears N. 85° W. and S. 85° E.
29.94	The witness $\frac{1}{4}$ sec. cor. of sec. 2 only of T. 2 N., marked by an iron post, 1 in. diam.; firmly set, mkd. and witnessed as described in the official record. Descend 40 ft. over a NE. slope to the river.
31.10	Forest Service Water Tower, bears S., approx. 3 chs. dist.
32.55	The meander cor. of sec. 2 only, of T. 2 N., on the left bank of the Salt River, course N. 12° W., which is monumented with an iron post, 1 in. diam., firmly set, mkd. and witnessed as described in the official record. Additionally mark the brass cap, which now reads

Resurvey of a Portion of the South Boundary,
T. 3 N., R. 7 E.

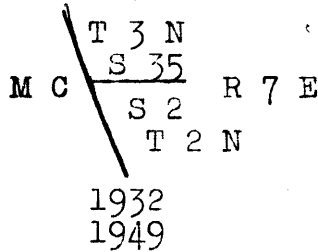
Chains



32.75
34.94
36.80

Wire fence, bears N: 10° W: and S. 10° E.
True point for the 1/4 sec. cor. of sec. 2, in Salt River.
The meander cor. of sec. 2 only, of T. 2 N., on the right bank of the river, which is monumented with an iron post, 1 in. diam., firmly set, mkd. and witnessed as described in the official record.

Additionally mark the brass cap, which now reads



40.00

Point for the 1/4 sec. cor. of sec. 35 only.
Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

1/4 S. 35

1949

raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
Thence over bottom land.

54.00

Leave bottom land, enter bench, bears N. and S, Thence through dense mesquite thicket.

60.20

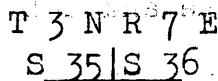
Wash, 15 lks. wide, course S.

74.88

The cor. of secs. 1 and 2 only, of T. 2 N., monumented with an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record.

80.00

Point for the cor. of secs. 35 and 36 only.
Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd.



S 1
T 2 N R 7 E
1949

from which

A mesquite, 10 ins. diam., bears N. 1 1/2° E., 89 lks. dist., mkd. T 3 N R 7 E S 36 B T.

A mesquite, 12 ins. diam., bears N. 60 1/2° W., 102 lks. dist., mkd. T 3 N R 7 E S 35 B T.

Land, rolling bench land and bottom land.
Soil, gravelly, heavy loam.
Timber, mesquite and palo verde; undergrowth, greasewood.

Subdivision of T. 3 N., R. 7 E.

Chains	From the cor. of secs. 35 and 36 only, on the S. bdy. of the Tp. N. 0° 03' E., bet. secs. 35 and 36. Over gently rolling bench land, through dense mesquite thicket.
18.00	Leave bench land and mesquite thicket, bears E. and W.; asc. 62 ft. over a S. slope.
30.00	Spur, slopes SW.; desc. 23 ft. over NW. slope.
34.25	Wash, 10 lks. wide, course SW.; asc. 23 ft. over a SE. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 35 and 36. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd. $\begin{array}{c} \frac{1}{4} \\ S\ 35\ \ S\ 36 \\ 1949 \end{array}$
	raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Ascend 18 ft. over a SE. slope.
53.50	Spur, slopes SW.; desc. 25 ft. over a NW. slope.
63.95	Wash, 30 lks. wide, course W.; asc. 19 ft. over a S. slope.
69.80	Spur, slopes SW. ; desc. 24 ft. over a NW. slope.
73.55	Wash, 30 lks. wide, course SW.; asc. gradual S. slope.
80.00	Point for the cor. of secs. 25, 26, 35 and 36. Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with brass cap mkd. $\begin{array}{c} T\ 3\ N\ R\ 7\ E \\ S\ 26\ \ S\ 25 \\ S\ 35\ \ S\ 36 \\ 1949 \end{array}$
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Land, rolling mountains. Soil, rocky and gravelly. Timber, mesquite and palo verde; undergrowth, greasewood.

	From the cor. of secs. 34 and 35 only, on the S. bdy. of the Tp. N. 0° 02' E., bet. secs. 34 and 35. Over gently rolling bench land; through scattering timber.
4.30	Graded road to Chavez Ranch House, bears NW. and SE.
7.33	SE. cor. of ranch house, bears N. 73° W.
9.00	Wire fence, bears E. and W.
11.50	Leave bench land, bears E. and W.; desc. 23 ft. over N. slope. Thence over bottom land.

Subdivision of T. 3 N., R. 7 E.

300

- Chains
12.90 Irrigation ditch, course W.; enter cultivated field, bears E., 7.80 chs. dist. and W., 16.90 chs. dist.
- 20.70 Leave cultivated field, bears S. 80° E., 7.80 chs. dist. and N. 80° W., 16.90 chs. dist.
- 20.90 Wire fence, bears S. 80° E. and N. 80° W.
- 34.08 Wire fence, bears N. 85° E. and S. 85° W.
- 34.16 Left bank of the Salt River, course S. 62° W.
Point for the meander cor. of secs. 34 and 35.
Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.
- M C

S 34	R 7 E
S 34	S 35

T 3 N
1949
- raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
- 38.83 Right bank of the river.
Point for the meander cor. of secs. 34 and 35.
Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.
- T 3 N | R 7 E

S 34	S 35
------	------

M C
1949
- raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
Across bottom land.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 34 and 35.
Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.
- $\frac{1}{4}$

S 34	S 35
------	------

1949
- raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
Continue over bottom land,
- 40.70 Leave bottom land, bears N. 70° W. and S. 70° E.; asc. a gravelly bluff, 50 ft. high.
- 44.20 Spur, slopes W.; desc. 54 ft. over N. slope.
- 47.05 Ravine, course W.; asc. 165 ft. over S. slope.
- 55.29 From this point, the SE. corner of ranch house, bears S. 15° 26' W.
- 55.50 Spur, slopes W.; desc. 173 ft. over a N. slope.

Chains
67.90 Wash, 10 lks. wide, course W.; asc. 82 ft. over S. slope.

71.20 Spur, slopes W.; desc. 47 ft. over a N. slope.

80.00 True point for the cor. of secs. 26, 27, 34 and 35 falls on the steep side of a rock ledge, which faces W.

At a point N. 89° 55' E., 20 links dist.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, over an X marked on bedrock, and in a mound of stone to top for witness corner, with brass cap mkd.

T 3 N R 7 E
W C S 27 | S 26
S 34 | S 35
1949

Land, S. $\frac{1}{2}$, rolling; N. $\frac{1}{2}$, mountainous.
Soil, S. $\frac{1}{2}$, gravelly loam; N. $\frac{1}{2}$, gravelly and rocky.
Timber, palo verde, ironwood and mesquite; undergrowth, greasewood.

From the cor. of secs. 25, 26, 35 and 36.

S. 89° 55' W., bet. secs. 26 and 35.

Over mountainous land, through scattering timber and undergrowth.

Descend gradual W. slope.

3.70 Wash, 40 lks. wide, course S.; asc. 180 ft. over E. slope.

18.50 Ridge, bears N. and S.; desc. 141 ft. over a W. slope.

26.10 Ravine, course SW.; asc. 16 ft. over a SE. slope.

28.30 Spur, slopes SW.; desc. 124 ft. over NW. slope.

40.02 Point for the sec. cor. of secs. 26 and 35.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

S 26
├───┬───┤
S 35
1949

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

Descend 23 ft. over a NW. slope.

41.20 Wash, 20 lks. wide, course SW.

47.00 Wash, 20 lks. wide, course S. 2 chs. to junction with above wash; asc. 264 ft. over E. slope.

66.00 Ridge, bears N. and S.; desc. 226 ft. over a W. slope.

79.84 The witness cor. of secs. 26, 27, 34 and 35.

80.04 The true point for the cor. of secs. 26, 27, 34 and 35.

Land, mountainous.
Soil, gravelly and rocky.
Timber, palo verde, mesquite and ironwood; undergrowth, greasewood and cactus.

Subdivision of T. 3 N., R. 7 E.

Chains

From the cor. of secs. 33 and 34 only on the S. bdy. of the Tp.

N. 0° 02' E., bet. secs. 33 and 34.

Over rolling bench land, through scattering timber and undergrowth.

5.20 Old irrigation ditch, course W.

5.40 Leave bench land, bears N. 70° E. and S. 45° W.; desc. 18 ft. over a steep N. slope.

7.28 Left bank of the Salt River, course N. 72° 30' W.

Point for the meander cor. of secs. 33 and 34.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.

M C			
S 33		S 34	
T 3 N		R 7 E	
1949			

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

Across river bed, clear running water, 20 ft. wide, 1 ft. deep.

10.64 Right bank of river.

Point for the meander cor. of secs. 33 and 34.

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

T 3 N		R 7 E	
S 33		S 34	
M C			
1949			

Bury a stone marked X alongside the iron post.

Thence across sandy, gravelly river bottom.

28.40 Dry slough, (old river channel), 1 ch. wide, course W.

29.50 Leave river bottom, bears E. and W.; asc. 69 ft. over steep S. slope.

31.90 Top of steep ascent, bears E. and W.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 33 and 34.

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

$\frac{1}{4}$			
S 33		S 34	
1949			

Bury a stone marked X alongside the iron post.

Ascend 203 ft. along E. slope of spur.

Subdivision of T. 3 N., R. 7 E.

Chains

62.00 Spur, slopes S. 30° W.; desc. 115 ft. over NW. slope.

75.75 Ravine, course S. 30° W.; asc. 49 ft. over SE. slope.

80.00 Point for the cor. of secs. 27, 28, 33 and 34.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

T 3 N R 7 E
S 28 | S 27
S 33 | S 34
1949

Bury a stone marked X alongside the iron post.

Land, S. $\frac{1}{2}$, rolling bench and bottom land; N. $\frac{1}{2}$, mountainous.

Soil, S. 5 chs., gravelly loam; bottom land, sandy and gravelly; mountainous land, gravelly and rocky.

Timber, mesquite, palo verde and ironwood; cottonwood along the old river channel; undergrowth, arrow-weed and greasewood.

From the cor. of secs. 26, 27, 34 and 35.

N. 89° 56' W., bet. secs. 27 and 34.

Over mountainous land, through scattering timber and undergrowth.

Descend 69 ft. over a W. slope.

2.60 Ravine, course SW.; asc. 80 ft. over E. slope.

5.30 Spur, slopes SW.; desc. 134 ft. over NW. slope.

15.80 Wash, 40 lks. wide, course S.; asc. 127 ft. over E. slope.

16.80 Road, bears N. and S.

30.00 Spur, slopes S.; desc. 36 ft. over W. slope.

33.30 Wash, 10 lks. wide, course S.; asc. 38 ft. over E. slope.

40.01 Point for the $\frac{1}{4}$ sec. cor. of secs. 27 and 34.

Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, over X marked on bedrock, and in a mound of stone to top, with brass cap mkd.

S 27
 $\frac{1}{4}$
S 34
1949

Ascend 55 ft. over E. slope.

46.50 Spur, slopes S.; desc. 178 ft. over W. slope.

55.60 Wash, 30 lks. wide, course S.; asc. 173 ft. over E. slope.

68.80 Spur, slopes S.; desc. 157 ft. over W. slope.

77.25 Wash, 20 lks. wide, course S.; asc. 40 ft. over E. slope.

Subdivision of T. 3 N., R. 7 E.

13

Chains

80.02 The cor. of secs. 27, 28, 33 and 34.

Land, mountainous.

Soil, gravelly and rocky.

Timber, palo verde, ironwood and mesquite; undergrowth, greasewood and cactus.

S. 89° 55' W., bet. secs. 28 and 33.

Over mountainous land, through scattering timber and undergrowth.

Ascend 128 ft. over SE. slope.

8.10 Spur, slopes S. 40° W.; desc. 221 ft. over NW. slope.

19.10 Ravine, course S. 20° W.; asc. 190 ft. over SE. slope.

36.80 Spur, slopes S.; desc. 24 ft. over W. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 28 and 33.

Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, to bedrock and in a mound of stone to top, with brass cap mkd.

S 28

 $\frac{1}{4}$

S 33

1949

Bury a stone mkd. X alongside the iron post.

42.69 Intersect the E. bdy. of the Salt River Indian Reservation at the closing corner of secs. 28 and 33, which is monumented with an iron post, 1 in. diam., firmly set, mkd. and witnessed as described in the official record.

Additionally mark the brass cap, which now reads

T 3 N R 7 E	
S 28	S 28
S 33	S 33
C C	
1949	

Land, mountainous.

Soil, gravelly and rocky.

Timber, palo verde and ironwood; undergrowth, greasewood.

Meanders of the Salt River.

From the meander cor. of secs. 4 and 33, on the S. bdy. of the Tp. and on the left bank of the Salt River.

Thence upstream with the meanders of the left bank of the river, in sec. 33.

N. 52° 45' E., 8.10 chs..

N. 65° 30' E., 3.80 chs..

N. 67° 00' E., 6.10 chs..

S. 87° 30' E., 5.40 chs..

S. 62° 50' E., 2.96 chs..

The meander cor. of secs. 33 and 34.

Meanders of the Salt River.

Land, level bottom.
Soil, gravelly silt.
Timber, cottonwood and mesquite; undergrowth, arrow-weed.

Thence in sec. 34.

- S. 73° 45' E., 10.50 chs.
- S. 72° 00' E., 5.10 chs.
- S. 81° 30' E., 7.10 chs.
- N. 79° 45' E., 5.00 chs.
- N. 83° 15' E., 1.70 chs.
- N. 89° 45' E., 3.70 chs.
- N. 63° 43' E., 3.98 chs..
- N. 67° 30' E., 4.00 chs.
- N. 80° 45' E., 4.10 chs.
- N. 28° 30' E., 2.96 chs.
- N. 19° 30' E., 6.50 chs.
- N. 51° 00' E., 8.90 chs. Road, bears N. and S.
- 13.40 chs. End of course.
- N. 59° 30' E., 8.50 chs.
- N. 65° 00' E., 4.70 chs.
- N. 68° 30' E., 6.60 chs.
- N. 73° 30' E., 5.00 chs. The meander cor. of secs. 34 and 35.

Land, level bottom.
Soil, gravelly silt.
Timber, cottonwood and mesquite; undergrowth, arrow-weed.

Thence in sec. 35.

- N. 75° 30' E., 9.70 chs.
- S. 89° 00' E., 5.70 chs.
- S. 74° 30' E., 2.90 chs.
- S. 63° 30' E., 3.30 chs.
- S. 50° 30' E., 3.00 chs.
- S. 40° 30' E., 3.20 chs.
- S. 27° 00' E., 2.90 chs.
- S. 37° 15' E., 3.20 chs.
- S. 10° 00' E., 15.80 chs.
- S. 9° 00' E., 5.50 chs.
- S. 7° 00' E., 3.80 chs. The meander cor. of secs. 2 and 35, on the S. bdy. of the Tp. and on the left bank of the Salt River.

Land, level bottom.
Soil, gravelly silt.
Timber, cottonwood and mesquite; undergrowth, arrow-weed.

From the meander cor. of secs. 2 and 35, on the S. bdy. of the Tp. and on the right bank of the Salt River.

Thence downstream with the meanders of the right bank of the river, in sec. 35.

- N. 17° 00' W., 2.71 chs.
- N. 5° 00' E., 15.01 chs. Mouth of wash from E.
- N. 42° 13' W., 7.22 chs..
- N. 38° 15' W., 2.26 chs..
- N. 32° 00' W., 9.90 chs..
- N. 50° 00' W., 5.27 chs..
- N. 77° 12' W., 14.18 chs. Along the foot of a bluff, 50 ft. high.

Meanders of the Salt River.

S. 84° 30' W., 8.00 chs. The meander cor. of secs. 34 and 35.

Land, level bottom; one course along foot of a bluff.
Soil, gravelly silt.
Timber, mesquite and cottonwood; undergrowth, arrow-weed.

Thence in sec. 34.

S. 51° 34' W., 4.02 chs.
S. 63° 15' W., 6.80 chs.
S. 66° 45' W., 10.20 chs.
S. 61° 30' W., 9.50 chs. Road, Bears N. and S.
S. 51° 30' W., 10.70 chs.
S. 21° 45' W., 11.40 chs.
S. 72° 15' W., 9.20 chs.
S. 84° 45' W., 7.30 chs.
N. 86° 30' W., 5.40 chs.
N. 72° 45' W., 9.10 chs.
N. 70° 45' W., 11.00 chs. The meander cor. of secs. 33 and 34.

Land, level bottom.
Soil, sandy, gravelly and rocky.
Timber, mesquite; undergrowth, arrow-weed.

Thence in sec. 33.

N. 82° 23' W., 1.79 chs.
N. 86° 30' W., 8.70 chs.
S. 77° 15' W., 3.70 chs.
S. 64° 30' W., 4.10 chs.
S. 58° 15' W., 5.10 chs.
S. 49° 30' W., 5.40 chs.
S. 47° 30' W., 3.90 chs. The meander cor. of secs. 4 and 33, on the S. bdy. of the Tp. and on the right bank of the Salt River.

Land, level bottom.
Soil, sandy and gravelly.
Timber, mesquite; undergrowth, arrow-weed.

Test of Solar Orientation.

March 31: At the $\frac{1}{4}$ sec. cor. of sec. 3 only, of T. 2 N., R. 7 E., at 8 a.m., app. t., I set off 33° 33' N., on the lat. arc; 4° 12' 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 4 p.m., app. t., I set off 33° 33' N., on the lat. arc; 4° 19' N., on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

March 31, 1949.

Sections 34, 35, and the portion of section 33 that is included in this survey, are in the Tonto National Forest. The west portion of section 33 is in the Salt River Indian Reservation. The elevation ranges from 1350 to 1800 ft. above sea level. The bench land along the south side of the Salt River is gravelly, heavy loam and is covered with a scattered growth of mesquite and palo verde timber. The mountainous land on the north side of the river is rocky and gravelly and has a scattered growth of palo verde and ironwood timber. There are scattering cottonwood and mesquite in the river bottom and a dense mesquite thicket is located in the southeast portion of section 35. The undergrowth in the river bottom is arrow-weed and on the mountainous land it is greasewood.

The Salt River crosses the south boundary of section 35 about 5 chains west of the $\frac{1}{4}$ section corner of section 35 only and courses westerly through these sections, leaving section 33 about 12 chains east of the $\frac{1}{4}$ section corner of section 33 only.

Before the construction of the Roosevelt, Horse Mesa, Mormon Flat and Stewart Mountain Dams above this point, the river when in flood stage cut a number of channels through the bottom lands of these sections. At one time the main channel followed along the north side of the river bottom. This channel is now dry and only serves to carry the run off of water from the hills on the north side of the river during the rainy season. The present main channel, along the banks of which the meander lines were run, carries all the water released from the storage reservoirs above. This water is used for the irrigation of the land in the Salt River Valley.

The only cultivated land in these sections is at the Chavez Ranch in the SE $\frac{1}{4}$ of section 34 and the SW $\frac{1}{4}$ of section 35.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Robert D. Stevens	Survey Aid, SP-3.
John G. Coverdale	" " SP-3.
Daniel D. Frank	" " SP-2.
Herman E. Woods	" " SP-2.
Conner D. Wilkerson	" " SP-2.
Lavor J. Boggs	" " SP-2.
Carl P. Lyons	" " SP-2.
George Lyons, Jr.	" " SP-2.
Raymond C. Lee, Jr.	" " SP-2.
Charles S. Amohsch	" " SP-2.
Frank A. Mercurio	" " SP-2.

18
16
BOOK 4989

CERTIFICATE OF CADASTRAL ENGINEER

We, Ty White and Claude F. Warner, HEREBY CERTIFY upon honor that, in
pursuance of special instructions bearing date of the 14th day of December, 1948
We
~~I~~ have surveyed a portion of the subdivisional and meander lines and
resurveyed a portion of the south boundary of Township 3 North, Range
7 East

of the G. & S. R. Meridian, in the State of Arizona, which are
represented in the foregoing field notes as having been executed by ~~me~~ ^{us} and under ~~my~~ ^{our} direction; and that
said 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.

Phoenix, Arizona,
May 27, 1949.
Phoenix, Arizona,
May 27, 1949.

Ty White
Cadastral Engineer.
Claude F. Warner
Cadastral Engineer.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., NOV 1 1949, 19

The foregoing field notes of the survey of a portion of the subdivisional and
meander lines and the resurvey of a portion of the south boundary of
Township 3 North, Range 7 East, of the Gila and Salt River Meridian
of Arizona

executed by Ty White and Claude F. Warner
having been critically examined and found correct, are hereby approved.

Earl S. Harrington
-Chief, Branch of Engineering and Construction.
Chief, Division of Engineering.

CERTIFICATE OF TRANSCRIPT

~~I certify that the foregoing transcript of the field notes of the above described surveys is~~
~~is a true copy of the original field notes.~~

Chief, Branch of Engineering and Construction.