

1A

BOOK 5087

INDEX DIAGRAM

Township 5 North, Range 1 East

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Township 5 North, Range 1 East,
Gila and Salt River Mer., Arizona

CHAINS

The history of surveys of Township 5 North, Range 1 East, Gila and Salt River Meridian, Arizona, is as follows:

The south boundary (First Standard Parallel North) was surveyed by William H. Pierce, Deputy Surveyor, in 1867. The west boundary (the Gila and Salt River Meridian) was surveyed by Johnston B. McLaughlin, Deputy Surveyor, in 1883. The east and north boundaries and most of the subdivisional lines were surveyed by Ridgley C. Powers, Deputy Surveyor, in 1892. The remaining unsurveyed subdivisional lines were surveyed and portions of the north boundary and subdivisional lines were resurveyed by Ty White, U.S. Transitman in 1922. The west boundary (Gila and Salt River Meridian) was resurveyed by William H. Thorn, U.S. Cadastral Engineer in 1922.

The following field notes describe the dependent resurvey of a portion of the south boundary (First Standard Parallel North) and a portion of the subdivisional lines, and the survey of the subdivision of section 31, Township 5 North, Range 1 East, of the Gila and Salt River Meridian, Arizona.

The survey was executed in accordance with specifications set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions for Group No. 600, Arizona, dated November 10, 1977.

Preliminary to the resurvey the lines of the original survey were retraced and a search was made for all corners and other calls of the record. Identified corners were remonumented in their original positions; lost corners were restored and monumented at proportionate positions based on the original record. The retracement data were thoroughly verified and only the true line field notes are given herein.

The directions of lines were determined by direct solar observations and refer to the true meridian. Distances were measured with electronic distance measuring equipment.

The geographic position of the southeast corner of section 31, as scaled from U.S. Geological Survey Quadrangle Map "CALDERWOOD BUTTE, ARIZ.," prepared in 1957, is as follows:

Latitude 33°43.5' N. Longitude 112°17.4' W.

The mean magnetic declination is 14°00' E.

Dependent Resurvey of a Portion of the South
Boundary (First Standard Parallel North),
T. 5 N., R. 1 E., Gila and Salt River Mer., Arizona

(Restoring the 1867 survey by William H. Pierce)

Beginning at the stan. cor. of Tps. 4 and 5 N., Rs. 1 E. and 1 W., monumented with an iron post, 3 ins. diam., projecting 15 ins. above a scattered mound of stone, with brass cap mkd. as described in the official record of the 1922 resurvey.

Dependent Resurvey of a Portion of the S Bdy.,
 (First Standard Parallel North)
 T. 5 N., R. 1 E., Gila and Salt River Mer., Arizona

CHAINS		
	<p>East, on the S bdy. of sec. 31.</p> <p>Over rolling land, through medium undergrowth.</p> <p>40.02 The standard 1/4 sec. cor. of sec. 31, monumented with a granite stone, 16x8x6 ins., firmly set 9 ins. in the ground, mkd. 1/4 on the N face.</p> <p>At the cor. point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">S C T5N R1E <u>1/4 S31</u> 1978</p> <p>from which</p> <p style="padding-left: 40px;">A basalt stone, 16x7x5 ins., setting on top of the ground, mkd. 1/4 on the N face, bears N. 15 1/2° E., 13 lks. dist.</p> <p style="padding-left: 40px;">A basalt stone, firmly set, 9x8x7 ins. above ground, mkd. 1/4 on the N face, bears N. 84 1/2° W., 117 lks. dist.</p> <p>Deposit the mkd. stone alongside the iron post.</p> <p>Raise a mound of stone, 2 1/2 ft. base, 1 1/2 ft. high, N of the cor.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>East, beginning new measurement.</p>	
<p>20.00</p>	<p>The standard E 1/16 sec. cor. of sec. 31, monumented with an iron pin, 3/8 in. square, 18 ins. long, buried 6 ins. under the ground. This position is harmoniously related to existing original cors. and is accepted as the cor. position.</p> <p>At the cor. point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">S C T5N R1E <u>E 1/16 S31</u> 1978</p> <p>from which</p> <p style="padding-left: 40px;">A re-bar, 3/8 in. diam., projecting 3 ins. above ground, bears N. 88° W., 144 lks. dist.</p> <p style="padding-left: 40px;">A 4x4 in. wood post, projecting 5 ft. above ground, bears N. 83° W., 66.5 lks. dist.</p> <p>Reset the local cor. alongside the iron post.</p> <p>Raise a mound of stone, 3 ft. base, 2 1/2 ft. high, N of the cor.</p>	

Dependent Resurvey of a Portion of the S Bdy.,
 (First Standard Parallel North)
 T. 5 N., R. 1 E., Gila and Salt River Mer., Arizona

CHAINS		
20.00	<p>Cor. is in a wash area.</p> <hr/> <p>East, beginning new measurement.</p> <p>The standard cor. of secs. 31 and 32, monumented with an iron pin, 3/8 in. square, 30 ins. long, projecting 2 ins. above ground. This position is harmoniously related to existing original cors. and is accepted as the best available evidence of the original cor. position.</p> <p>At the cor. point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">S C T5N R1E <u>S31 S32</u> 1978</p> <p>from which</p> <p>A local cor., bears N. 88° E., 370 lks. dist., monumented with an open end pipe, 2 1/2 ins. diam., projecting 5 ins. above ground.</p> <p>A mound of stone, 2 1/2 ft. base, 1 ft. high, bears S. 89°34' E., 197.5 lks. dist.</p> <p>A local cor., bears S. 89°54' W., 170.5 lks. dist., monumented with a re-bar, 3/8 in. diam., projecting 2 ins. above ground.</p> <p>Reset the local cor. alongside the iron post.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N of the cor.</p> <p>From this point the standard 1/4 sec. cor. of sec. 32 on the S bdy. of the Tp., bears East, 39.96 chs. dist., monumented with a basalt stone, firmly set, 8x7x4 ins. above ground, mkd. 1/4 on the N face.</p>	
20.46	<p style="text-align: center;">Dependent Resurvey of a Portion of the Subdivisional Lines, T. 5 N., R. 1 E., Gila and Salt River Meridian, Arizona</p> <hr/> <p style="text-align: center;">(Restoring the 1892 survey by Ridgley C. Powers)</p> <hr/> <p>From the standard cor. of secs. 31 and 32, on the S bdy. of the Tp.</p> <p>N. 0°59' W., bet. secs. 31 and 32.</p> <p>Over rolling land, through medium undergrowth.</p> <p>Point for the S 1/16 sec. cor. of secs. 31 and 32.</p>	

Dependent Resurvey of a Portion of the Subdivisional Lines, T. 5 N., R. 1 E., Gila and Salt River Mer., Ariz.

CHAINS		
	<p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T5N R1E S 1/16 S31 S32 1978</p> <p>from which</p> <p style="padding-left: 40px;">An open end pipe, 3/4 in. diam., projecting 2 ins. above ground, bears N. 88° W., 85.3 lks. dist.</p> <p>Raise a mound of stone, 3 ft. base, 2 1/2 ft. high, W of the cor.</p> <p>Cor. is 5 lks. W of the W bank of the Agua Fria River.</p>	
30.70	Gravel road, bears S. 50° E. and N. 50° W.	
34.00	Power line, bears S. 25° E. and N. 25° W.	
40.92	<p>The 1/4 sec. cor. of secs. 31 and 32, monumented with a volcanic stone, 20x10x6 ins., firmly set 12 ins. in the ground, mkd. 1/4 GEL on the W face.</p> <p>At the cor. point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T5N R1E 1/4 S31 S32 1977</p> <p>Deposit the mkd. stone alongside the iron post.</p> <p>Raise a mound of stone, 3 1/2 ft. base, 2 1/2 ft. high, W of the cor.</p> <p>Cor. is 2 lks. N of an E-W fence.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°23' E., beginning new measurement.</p>	
20.28	Point for the N 1/16 sec. cor. of secs. 31 and 32, not monumented.	
24.70	Fence, bears E and W; enter cultivated field.	
40.56	<p>Point for the cor. of secs. 29, 30, 31 and 32, at proportionate dist. is in a cultivated field; there is no remaining evidence of the original cor., not monumented.</p> <p>From this point the 1/4 sec. cor. of secs. 29 and 30, bears N. 2°00' E., 40.58 chs. dist., monumented with a volcanic stone, 12x8x8 ins., firmly set in a mound of stone, 3 ft. base, 1 ft. high, mkd. 1/4 on the E face.</p> <p>At the cor. point</p>	

Dependent Resurvey of a Portion of the Subdivisional Lines, T. 5 N., R. 1 E., Gila and Salt River Mer., Ariz.

CHAINS	
	<p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T5N R1E 1/4 S30 S29 1977</p> <p>Deposit the mkd. stone alongside the iron post.</p> <p>Raise a mound of stone, 3 ft. base, 2 1/2 ft. high, W of the cor.</p> <p>From this same point the cor. of secs. 28, 29, 32 and 33, bears S. 89°33' E., 79.51 chs. dist., monumented with a volcanic stone, 10x5x4 ins., firmly set in a mound of stone, 2 ft. base, 1 ft. high, with 4 notches on the E and 1 notch on the S edges.</p> <p>At the cor. point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 22 ins., in the ground, with brass cap mkd.</p> <p style="text-align: center;">T5N R1E S29 S28 S32 S33 1977</p> <p>Deposit the mkd. stone alongside the iron post.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, W of the cor.</p> <p>The control line was fully retraced, and no evidence of the intervening cor. was found.</p>
	<p>S. 88°55' W., bet. secs. 30 and 31.</p> <p>Over nearly level cultivated land.</p>
8.70	Fence, bears N. 20° E. and S. 20° W.; enter rolling land covered with medium undergrowth.
16.90	Power line, bears N. 30° E. and S. 30° W.
18.50	Gravel road, bears N. 10° E. and S. 10° W.
19.88	True point for the E 1/16 sec. cor. of secs. 30 and 31, is in the Beardsley Canal, concrete lined, 80 lks. wide, draining S. 30° W., where it is impractical to set a monument.
20.40	<p>Point selected for the witness E 1/16 sec. cor. of secs. 30 and 31.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 16 ins. in the ground, to solid rock, and in a mound of stone, 3 1/2 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">W C T5N R1E E 1/16 $\xrightarrow{S30}$ S31 1977</p>

Dependent Resurvey of a Portion of the Subdivisional Lines, T. 5 N., R. 1 E., Gila and Salt River Mer., Ariz.

CHAINS	
39.76	<p>Raise a mound of stone, 4 1/2 ft. base, 3 ft. high, N of the cor.</p> <p>Point for the 1/4 sec. cor. of secs. 30 and 31, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 14 ins. in the ground, to solid rock, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T5N R1E 1/4 $\frac{S30}{S31}$ 1977</p>
46.30	<p>Raise a mound of stone, 4 1/2 ft. base, 4 ft. high, N of the cor.</p> <p>Dirt road, bears S. 10° E. and N. 10° W.</p>
79.72	<p>The cor. of secs. 30 and 31 only, monumented with a malpais stone, 10x8x6 ins., firmly set in a mound of stone, 2 ft. base, 6 ins. high, mkd. with 5 notches on the N and 1 notch on the S edges.</p> <p>At the cor. point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 16 ins. in the ground, to solid rock, and in a mound of stone, 2 1/2 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T5N T5N S30 R1W S31 S25 R1E 1977</p>
	<p>Deposit the mkd. stone alongside the iron post.</p>
	<p>Raise a mound of stone, 3 1/2 ft. base, 2 1/2 ft. high, E of the cor.</p>
	<p>From this point the cor. of secs. 25 and 36 only, T. 5 N., R. 1 W., bears S. 0°03' W., 5.39 chs. dist., monumented with an iron post, 2 ins. diam., projecting 6 ins. above a mound of stone, with brass cap mkd. as described in the official record of the 1922 resurvey.</p>
	<p>Subdivision of Sec. 31, T. 5 N., R. 1 E., Gila and Salt River Mer., Arizona</p>
20.23	<p>From the standard 1/4 sec. cor. of sec. 31 on the S bdy. of the Tp.</p> <p>N. 0°08' W., on the N and S center line of sec. 31.</p> <p>Over rolling land, through medium undergrowth.</p> <p>Point for the center S 1/16 sec. cor. of sec. 31.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p>

Subdivision of Sec. 31,
T. 5 N., R. 1 E., Gila and Salt River Mer., Arizona

CHAINS	
	<p style="text-align: center;">T5N R1E C S 1/16 S31 C 1978</p>
40.46	<p>Raise a mound of stone, 3 ft. base, 2 ft. high, W of the cor.</p> <p>Point for the center 1/4 sec. cor. of sec. 31, at intersection with the E and W center line.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">T5N R1E C 1/4 S31 1978</p>
54.00	<p>Raise a mound of stone, 4 ft. base, 3 ft. high, W of the cor.</p> <p>Gravel road, bears E and W.</p>
55.80	<p>Beardsley Canal, concrete lined, 80 lks. wide, flows W.</p>
60.59	<p>Point for the center N 1/16 sec. cor. of sec. 31.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 16 ins. in the ground, to solid rock, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p>
80.72	<p style="text-align: center;">T5N R1E C N 1/16 S31 C 1978</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, W of the cor.</p> <p>The 1/4 sec. cor. of secs. 30 and 31.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 31 and 32.</p> <p>S. 89°20' W., on the E and W center line of sec. 31.</p> <p>Over rolling land, through medium undergrowth, along an E-W fence.</p>
4.20	<p>Power line, bears S. 30° E. and N. 40° W.</p>
9.07	<p>Fence cor. bears North, 7 lks. dist.; fences extend E and NW.</p>
9.30	<p>Gravel road, bears SE and NW.</p>
19.70	<p>Point for the center E 1/16 sec. cor. of sec. 31.</p>

Subdivision of Sec. 31,
T. 5 N., R. 1 E., Gila and Salt River Mer., Arizona

CHAINS		
	<p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T5N R1E E 1/16 C-----C S 31 1978</p> <p>from which</p> <p style="padding-left: 40px;">An open end pipe, 1 1/2 ins. diam., projecting 2 ins. above ground, bears S. 89° E., 77 lks. dist.</p> <p>Raise a mound of stone, 2 1/2 ft. base, 2 ft. high, N of the cor.</p>	
39.40	The center 1/4 sec. cor. of sec. 31.	
53.00	Gravel road, bears NE and SW.	
54.60	Beardsley Canal, concrete lined, 80 lks. wide, drains SW.	
79.46	<p>The 1/4 sec. cor. of sec. 31 only, on the W bdy. of the Tp., monumented with a malpais stone, 12x12x6 ins., firmly set 6 ins. in the ground, mkd. 1/4 on the E face.</p> <p>At the cor. point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 16 ins. in the ground, to solid rock, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T5N R1W R1E 1/4 S31 1977</p> <p>Deposit the mkd. stone alongside the iron post.</p> <p>Raise a mound of stone, 4 ft. base, 3 ft. high, E of the cor.</p>	
20.20	<p style="text-align: center;">NE 1/4, Sec. 31</p> <hr style="width: 20%; margin: auto;"/> <p>From the center E 1/16 sec. cor. of sec. 31.</p> <p>N. 0°08' E., on the N and S center line of the NE 1/4 of sec. 31.</p> <p>Over rolling land, through medium undergrowth.</p> <p>Point for the NE 1/16 sec. cor. of sec. 31, at intersection with the E and W center line of the NE 1/4.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, with brass cap mkd.</p>	

Subdivision of Sec. 31,
T. 5 N., R. 1 E., Gila and Salt River Mer., Arizona

CHAINS	
	<p>T5N R1E NE 1/16 S31 1978</p>
	<p>Raise a mound of stone, 3 ft. base, 2 ft. high, W of the cor.</p>
38.00	Gravel road, bears NE and SW.
40.40	The true point for the E 1/16 sec. cor. of secs. 30 and 31.
	<hr/>
	<p>From the point for the N 1/16 sec. cor. of secs. 31 and 32.</p>
	<p>S. 89°07' W., on the E and W center line of the NE 1/4 of sec. 31.</p>
	<p>Over rolling land, through medium undergrowth.</p>
15.30	Power line, bears N and S.
15.80	Gravel road, bears N and S.
19.79	The NE 1/16 sec. cor. of sec. 31.
33.00	Gravel road, bears N. 20° E. and S. 20° W.
35.00	Beardsley Canal, concrete lined, 80 lks. wide, flows S.
39.58	The center N 1/16 sec. cor. of sec. 31.
	<hr/>
	<p>SE 1/4, Sec. 31</p>
	<p>From the standard E 1/16 sec. cor. of sec. 31 on the S bdy. of the Tp.</p>
	<p>N. 0°33' W., on the N and S center line of the SE 1/4 of sec. 31.</p>
	<p>Over rolling land, through medium undergrowth.</p>
20.34	<p>Point for the SE 1/16 sec. cor. of sec. 31, at intersection with the E and W center line of the SE 1/4.</p>
	<p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p>
	<p>T5N R1E SE 1/16 S31 1978</p>
	<p>Raise a mound of stone, 3 ft. base, 1 1/2 ft. high, W of the cor.</p>
40.68	The center E 1/16 sec. cor. of sec. 31.
	<hr/>
	<p>From the S 1/16 sec. cor. of secs. 31 and 32.</p>

Subdivision of Sec. 31,
T. 5 N., R. 1 E., Gila and Salt River Mer., Arizona

CHAINS	<p>S. 89°41' W., on the E and W center line of the SE 1/4 of sec. 31.</p> <p>Over rolling land, through medium undergrowth.</p> <p>19.85 The SE 1/16 sec. cor. of sec. 31.</p> <p>39.70 The center S 1/16 sec. cor. of sec. 31.</p>
<p>GENERAL DESCRIPTION</p> <p>The area encompassed in this survey is located about 6 miles north of Sun City, Arizona. Elevations range from about 1,400 to about 1,200 feet above sea level. General drainage in the area is southeasterly. The terrain is mostly low rolling hills, with a medium cover of creosote, palo verde, ocotillo and cacti, except for a portion of the NE 1/4 of the NE 1/4, where a cultivated field is located on nearly level land. The soil is generally a sandy loam with an abundant distribution of rocks in all except the cultivated field previously mentioned.</p> <p>Access is provided by a good gravel road which enters section 31 on the east boundary of the section and joins another graded road which parallels the Beardsley Canal. The Beardsley Canal provides water for the area. Indian ruin diggings are located in the eastern portion of section 31. There is no evidence of active mining or mineral deposits in the area.</p>	

Form 9180-8
(March 1969)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Ross M. Workman	Cadastral Surveyor
Dirk L. Peterson	Survey Aid
Duane R. Ferneau	Survey Aid
Richard H. Bancroft	Survey Aid
Jay D. Lytle	Survey Aid

CERTIFICATE OF SURVEY

^{xx}
(I) (We), Harry K. Smith, Cadastral Surveyor, HEREBY
CERTIFY upon honor that, in pursuance of special instructions bearing date of the 10th day
of November, 19⁷⁷, ^{xx}(I) (We) have dependently resurveyed a portion of
the south boundary (First Standard Parallel North) and a portion of the
subdivisional lines, and surveyed the subdivision of section 31,
Township 5 North, Range 1 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), ~~(us)~~ and under (my)
~~(our)~~ direction; and that said survey has been made in strict conformity with said special instruc-
tions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in
specific manner described in the foregoing field notes.

December 22, 1978

(Date)

Harry K. Smith

(Cadastral Surveyor)

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Washington, D.C.

The foregoing field notes of the dependent resurvey of a portion of the south
boundary (First Standard Parallel North) and a portion of the
subdivisional lines, and the survey of the subdivision of section 31,
T. 5 N., R. 1 E., of the Gila and Salt River Mer., Arizona,

Harry K. Smith, Cadastral Surveyor,
executed by

having been critically examined and found correct, are hereby approved.

MAR 26 1979

(Date)

B. W. Fisher

(Chief, Division of Cadastral Survey)

CERTIFICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in
T. 5 N., R 1 E., G&SRM., Arizona, is a true copy of the original field notes.

(Date)

(Chief, Division of Cadastral Survey)