Book 5696

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF

THE SUBDIVISIONAL LINES,

THE SUBDIVISION OF SECTION 27,

AND A METES-AND-BOUNDS SURVEY IN

SECTION 27

TOWNSHIP 2 NORTH, RANGE 7 EAST,

OF THE GILA AND SALT RIVER MERIDIAN,

IN THE STATE OF ARIZONA.

EXECUTED BY

Dale C. Wilson, Cadastral Surveyor

Under Special Instructions dated July 28, 2003, approved July 28, 2003, which provided for the surveys included under Group No. 912, and assignment instructions dated July 28, 2003.

Survey commenced September 15, 2003

Survey completed September 23, 2003

INDEX DIAGRAM

TOWNSHIP 2 NORTH RANGE 7 EAST
GILA AND SALT RIVER MERIDIAN

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

T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the subdivisional lines, the subdivision of section 27, and a metes-and-bounds survey in section 27, T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this survey is as follows:

A portion of the subdivisional lines were surveyed by Theodore Vander Meer from 1930 to 1932.

The survey was executed in accordance with the specifications as set forth in the Manual of Instructions for the Survey of the Public Lands of the United States, 1973, and the Special Instructions dated July 28, 2003, for Group No. 912, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 5800 model receivers.

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

Geodetic control was derived from Global Positioning System (GPS) static post observations processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) SRP1, COSA, and AZGB. The NAD 83 (CORS96)(EPOCH: 2002) geographic position of the true point for the cor. of secs. 26, 27, 34, and 35, is as follows:

Latitude: 33°28'49.79" N. Longitude: 111°36'54.91" W.

The mean magnetic declination is 11 3/4° E.

Dependent Resurvey of a Portion of the Subdivisional Lines, T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona

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Restoring the survey executed by
Theodore Vander Meer, in 1930 to 1932

Beginning at the true point for the sec. cor. of secs. 26, 27, 34, and 35; Point falls in wash, impractical to monument.

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	From this point, the witness cor. to the cor. of secs. 26, 27, 34, and 35, bears East, 0.16 chs. dist., monumented with an iron post, 2 ins. diam., firmly set, projecting 6 ins. above ground, with brass cap mkd. T7N R2E S27 S26 WC S34 S35 1930, with a mound of stone, 3 ft. base, 1 ft. high, to the W. Add the marks 2003 to the brass cap. N. 0°01' W., bet. secs. 26 and 27. Over gently rolling desert.
39.99	The 1/4 sec. cor. of secs. 26 and 27, monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above ground, with brass cap mkd. 1/4 S27 S26 1930, with a mound of stone, 3 ft. base, 2 ft. high, to the W. Add the marks T2N R7E 2003 to the brass cap.
	N. 0°01' E., beginning new measurement. Over gently rolling desert.
40.02	The cor. of secs. 22, 23, 26 and 27, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd. T2N R7E S22 S23 S27 S26 1930, with a mound of stone, 3 ft. base, 2 ft. high, to the W. Add the marks 2003 to the brass cap. The cor. is located 3 lks. S. of a fence, bears E. and W.
	From the true point for the cor. of secs. 26, 27, 34, and 35. N. 89°38' W., bet. secs. 27 and 34. Over gently rolling desert.
40.01	The 1/4 sec. cor. of secs. 27 and 34, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd. 1/4 S27 S34 1930, with a mound of stone, 4 ft. base, 1 ft. high, to the N. Add the marks T2N R7E 2003 to the brass cap.
	N. 89°40' W., beginning new measurement. Over gently rolling desert.

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
40.01	The cor. of secs. 27, 28, 33 and 34, monumented with an iron post, 2 ins. diam., firmly set, projecting 6 ins. above ground, with brass cap mkd. T2N R7E S28 S27 S33 S34 1930.
	Add the marks 2003 to the brass cap.
	The cor. is located in cor. of fences, extending N., S., and W.

	N. 0°01' W., bet. secs. 27 and 28.
	Over gently rolling desert.
40.00	The 1/4 sec. cor. of secs. 27 and 28, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd. 1/4 S28 S27 1930, and oriented with the date to the N.
	Add the marks T2N R7E 2003 to the brass cap.
	Cor. is located in fence, extending N. and S.

	N. 0°03' E., beginning new measurement.
	Over gently rolling desert.
32.36	Centerline of Microwave Tower access road, macadam surfaced, 14 ft. wide, bears SE and NW.
	Ascend rocky SW slope.
33.56	Point for AP1, hereinafter described.
40.04	The cor. of secs. 21, 22, 27, and 28, monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. T2N R7E S21 S22 S28 S27 1930, with a mound of stone, 4 ft. base, 1 ft. high, to the W.
	Add the marks 2003 to the brass cap.
	Cor. is located in cor. of fences, extending E., W. and S.

	From the cor. of secs. 22, 23, 26, and 27.
	N. 89°33' W., bet. secs. 22 and 27.
	Over gently rolling desert.
8.77	Usery Pass Road, 2 lane macadam surfaced, 38 ft. wide, bears N. 10°10′ E. and S. 10°10′ W.

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona**

CHAINS	
9.60	Point for AP18, hereinafter described.
39.98	The 1/4 sec. cor. of secs. 22 and 27, monumented with an iron post, 1 in. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. 1/4 S22 S27 1930. Add the marks T2N R7E 2003 to the brass cap. Cor. is located in fence, extending E. and W.
	N. 89°41' W., beginning new measurement. Over gently rolling desert.
40.02	The cor. of secs. 21, 22, 27 and 28.

**Subdivision of Section 27,
T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona**

	From the 1/4 sec. cor. of secs. 27 and 34. N. 0°01' E., on the N. and S. centerline of sec. 27. Over gently rolling desert.
31.89	Intersect line 7-8 of the metes-and-bounds survey in sec. 27, at a point from which AP8 bears S. 48°44' E., 11.39 chs. dist.
39.99	Point for the center 1/4 sec. cor. of sec. 27, at intersection with the E. and W. centerline of sec. 27, occupied with an open end iron pipe, 1 1/4 ins. diam., firmly set, projecting 6 ins. above ground, with steel fence post to the NW. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd. T 2 N R 7 E C 1/4 S 27 2003 Bury the open end iron pipe, 24 ins. long, inside the stainless steel post. Deposit a magnet in a white plastic case at the base of the stainless steel post.

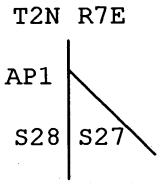
Subdivision of Section 27,
T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
41.33	Martin Drive (access road to Usery Mountain Shooting Range), asphalt surfaced, 24 ft. wide, bears S. 62° E., and N. 62° W. Enter Usery Mountain Shooting Range site with numerous facilities.
80.07	The 1/4 sec. cor. of secs. 22 and 27.
	From the 1/4 sec. cor. of secs. 26 and 27.
	N. 89°38' W., on the E. and W. centerline of sec. 27.
	Over gently rolling desert.
24.63	Intersect line 8-9 of the metes-and-bounds survey in sec. 27, at a point from which AP9 bears N. 23°38' E., 8.63 chs. dist.
37.41	Martin Drive (access road to Usery Mountain Shooting Range), asphalt surfaced, 24 ft. wide, bears S. 62° E., and N. 62° W.
39.98	The center 1/4 sec. cor. of sec. 27.
49.30	Intersect line 7-8 of the metes-and-bounds survey in sec. 27, at a point from which AP8 bears S. 48°44' E., 23.78 chs. dist.
80.02	The 1/4 sec. cor. of secs. 27 and 28.

Metes-and-Bounds Survey in Section 27,
T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona

From AP1, sec. 27, determined on the line bet. secs. 27 and 28, and 50 ft. N. and E. of center of pavement of Microwave Tower Road.

Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole in solid rock, with top mkd.



2003

Deposit a magnet beneath brass tablet stem in drill hole.

Raise a mound of stone, 3 ft. base 1 1/2 ft. high, NE of cor.

Metes-and-Bounds Survey in Section 27,
T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
	From this cor. point, the cor. of secs. 21, 22, 27 and 28 bears N. 0°03' E., 6.48 chs. dist.
	S. 38°00' E., on line 1-2, along a 50 ft. offset to Microwave Tower Road.
1.90	Point for AP2, identical with the Point of Curvature, not monumented.
	Thence, on line 2-3, along a circular curve to the right, having a central angle of 25°08', a radius of 410.58 ft., on 50 ft. offset to Microwave Tower Road, the chord of said arc bears S. 25°26' E., 2.71 chs. dist.
2.73	Point for AP3, identical with the Point of Tangency, not monumented.
	S. 12°52' E., on line 3-4, along 50 ft. offset to Microwave Tower Road.
1.57	Point for AP4, identical with the Point of Curvature, not monumented.
	Thence, on line 4-5, along a circular curve to the left, having a central angle of 18°25', a radius of 277.91 ft., on 50 ft. offset to Microwave Tower Road, the chord of said arc bears S. 22°04' E., 1.35 chs. dist.
1.35	Point for AP5, identical with the Point of Tangency, not monumented.
	S. 31°17' E., on line 5-6, along 50 ft. offset to Microwave Tower Road.
6.16	Point for AP6, identical with the Point of Curvature, not monumented.
	Thence, on line 6-7, along a circular curve to the left, having a central angle of 17°27', a radius of 488.06 ft., on 50 ft. offset to Microwave Tower Road, the chord of said arc bears S. 40°01' E., 2.24 chs. dist.
2.25	Point for AP7, identical with the Point of Tangency, not monumented.

Metes-and-Bounds Survey in Section 27,
T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
	S. 48°44' E., on line 7-8, along 50 ft. offset to Microwave Tower Road.
54.19	Point for AP8, sec. 27, determined at the intersection of a 50 ft. offset NE of Microwave Tower Road and 55 ft. offset NW of Usery Pass Road. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd. T2N R7E AP 8 S 27 2003 Deposit a magnet in a white plastic case at the base of the stainless steel post.
	N. 23°38' E., on line 8-9, on 55 ft. offset N. and W. of center of pavement of Usery Road.
25.59	Point for AP9, identical with the Point of Curvature, not monumented.
	Thence, on line 9-10, along a circular curve to the left, having a central angle of 11°24', a radius of 3028.68 ft., on 55 ft. offset to center of pavement of Usery Road, the chord of said arc bears N. 17°56' E., 9.11 chs. dist.
9.13	Point for AP10, identical with the Point of Tangency, not monumented.
	N. 12°14' E., on line 10-11, on 55 ft. offset of center of pavement of Usery Road.
2.29	Point for AP11, identical with the Point of Curvature, not monumented.
	Thence, on line 11-12, along a circular curve to the right, having a central angle of 10°37', a radius of 1381.85 ft., on 55 ft. offset to center of pavement of Usery Road, the chord of said arc bears N. 17°32' E., 3.87 chs. dist.
3.88	Point for AP12, identical with the Point of Tangency, not monumented.

Metes-and-Bounds Survey in Section 27,
T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
	N. 22°51' E., on line 12-13, on 55 ft. offset of center of pavement of Usery Road.
6.89	Point for AP13, identical with the Point of Curvature, not monumented.
	Thence, on line 13-14, along a circular curve to the left, having a central angle of 2°01', a radius of 7952.75 ft., on 55 ft. offset to center of pavement of Usery Road, the chord of said arc bears N. 21°50' E., 4.23 chs. dist.
4.24	Point for AP14, identical with the Point of Tangency, not monumented.
	N. 20°50' E., on line 14-15, on 55 ft. offset of center of pavement of Usery Road.
2.40	Point for AP15, identical with the Point of Curvature, not monumented.
	Thence, on line 15-16, along a circular curve to the right, having a central angle of 3°31', a radius of 1426.15 ft., on 55 ft. offset to center of pavement of Usery Road, the chord of said arc bears N. 22°36' E., 1.33 chs. dist.
1.33	Point for AP16, identical with the Point of Tangency, not monumented.
	N. 24°21' E., on line 16-17, on 55 ft. offset of center of pavement of Usery Road.
2.56	Point for AP17, identical with the Point of Curvature, not monumented.
	Thence, on line 17-18, along a circular curve to the left, having a central angle of 10°50', a radius of 494.93 ft., on 55 ft. offset to center of pavement of Usery Road, the short chord of said arc bears N. 18°56' E., 1.42 chs. dist.
1.42	Point for AP18, sec. 27. determined on the line bet. secs. 22 and 27 and 55 ft. N. and W. of Usery Pass Road.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 13 ins. in the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd.

Metes-and-Bounds Survey in Section 27,
T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS

T2N R7E
S22

AP18 / S27

2003

Cor. is located 17 lks. E. of 4 strand barbed wire fence, bears S. and curving westerly, 3 lks. S. of fence cor. with 4 strand barbed wire fences extending N. 10° E. and W., 85 lks. W. of 2 lane macadam surfaced Usery Pass Road, 38 ft. wide, bears N. 9°41' E. and S. 15°19' W.

From this cor. point, the cor. of secs. 22, 23, 26 and 27 bears S. 89°33′ E., 9.60 chs. dist.

General Description

The area embraced within this survey is gentle and lightly broken in the south and east to mountainous in the north and west with scattered palo verde, mesquite, creosote, cacti, and sparse native grasses.

The Usery Mountain Shooting Range is situated within the center of this metes-and bounds survey.

Angle Point 8, the southerly tip of this metes-and-bounds survey, is located approximately north-north-westerly, 100 feet dist., from the center of intersection of Usery Pass and Microwave Tower Roads. This junction is located northerly approximately 7 1/2 miles of the Ellsworth 191 Exit on U.S. Route 60.

The mean magnetic declination of 11 3/4° E. was derived from the United States Geological Survey computer program GEOMAGIX, utilizing the World Magnetic Model for Epoch 2000 for the dates of survey.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Adrien J. Rodriguez	Cadastral Surveyor
Robert J. Lyle	Surveying Technician
R. M. McDonald	Surveying Technician
Mark R. Searles	Surveying Technician

CERTIFICATE OF SURVEY

I, Dale C. Wilson, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 28th day of July, 2003, I have dependently resurveyed a portion of the subdivisional lines, subdivided section 27 and executed a metes-and-bounds survey in section 27, T. 2 N., R. 7 E., 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. Said survey has been made in strict conformity with said special instructions, 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.

3/24/04
(Date)

Dale C. Wilson
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the subdivisional lines, the subdivision of section 27 and a metes-and-bounds survey in section 27, T. 2 N., R. 7 E., Gila and Salt River Meridian, in the State of Arizona, executed by Dale C. Wilson, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

April 8, 2004
(Date)

Kenny D Kavnkar
(Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

I CERTIFY That the foregoing transcript of the field notes of the above described surveys in T. 2 N., R. 7 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~