

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES
OF THE
DEPENDENT RESURVEY

OF

A PORTION OF THE NORTH BOUNDARY

AND A PORTION OF THE SUBDIVISIONAL LINES,

THE SUBDIVISION OF SECTION 4,

AND

THE METES AND BOUNDS SURVEY IN SECTION 4,

TOWNSHIP 39 NORTH, RANGE 7 EAST,

Of the Gila and Salt River Meridian,
In the State of Arizona

EXECUTED BY

William P. Carpender

Cadastral Surveyor

Under Special Instructions dated and approved June 5, 1997, which provided for the surveys included under Group Number 815, and assignment instructions dated June 5, 1997.

Survey Commenced June 9, 1997

Survey Completed June 16, 1997

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T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the north boundary and a portion of the subdivisional lines, the subdivision of section 4, and the metes and bounds survey in section 4, Township 39 North, Range 7 East, Gila and Salt River Meridian, Arizona.

The north boundary was surveyed by William E. Hiester and Otis O. Gould, in 1926-27. The subdivisional lines were surveyed by Karl L. Siebecker, in 1930.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated June 5, 1997, for Group No. 815, Arizona.

Preliminary to the resurvey, the lines of the original survey were retraced and 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 all lines were determined by direct hour angle observations on the sun, confirmed by reference to the National Geodetic Survey triangulation network, and refer to the true meridian. Distances and angles were measured with a Sokkia SET2BII total station instrument.

The geographic position of the corner of sections 3, 4, 33, and 34, on the north boundary of the Township, as determined from a direct tie to U.S. Coast and Geodetic Survey triangulation station "MARBLE CANYON 1947", is as follows:

Latitude: 36°48'58.90" N. Longitude: 111°38'28.34" W. NAD83(1992)

The mean magnetic declination, as taken from quadrangle map NAVAJO BRIDGE, ARIZONA, Provisional Edition, published in 1985 by U.S. Geological Survey, is 13 1/2° East.

Dependent Resurvey of a Portion of the North Boundary,
T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS

Restoring the survey executed by
William E. Hiester and Otis O. Gould, in 1926-27

Beginning at the 1/4 sec. cor. of secs. 4 and 33, on the N. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. 1/4 S33 S4 1927.

Add the marks T40N R7E T39N 1997 to the brass cap.

A steel fence post is set near the cor.

S. 89°58' E., bet. secs. 4 and 33.

Over nearly level, open desert terrain.

6.40 Dirt road, bears N. and S.

20.00 The E. 1/16 sec. cor. of secs. 4 and 33, established by Charles Dryden, L.S. 4321, in 1956, as per a map in the possession of Jane Foster, owner of the Marble Canyon Lodge, monumented with an iron pipe, 15 ins. long, 1 in. diam., firmly set, flush with the ground, in a mound of stone, 4 ft. base, 1/2 ft. high. This is accepted as a careful and faithful determination of the position of the cor.

At the cor. point

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, in a mound of stone, 2 ft. base, to top, with brass cap mkd.

T40N R7E
S33
E 1/16 ———
S 4
T39N
1997

Deposit a magnet in a white plastic case beneath the stainless steel post.

Bury the iron pipe inside the stainless steel post.

The cor. is located at a cor. of fences extending E. and S.

S. 89°58' E., beginning new measurement.

Dependent Resurvey of a Portion of the North Boundary,
T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
20.00	<p>The cor. of secs. 3, 4, 33, and 34, monumented with an iron post, 2 ins. diam., firmly set, projecting 2 ins. above ground, with brass cap mkd. T40N R7E S33 S34 S4 S3 T39N 1927.</p> <p>Add the marks 1997 to the brass cap.</p> <p>The cor. is located at a cor. of fences extending N. and W.</p> <p>From this cor. point, U.S. Coast and Geodetic Survey triangulation station MARBLE CANYON 1947, monumented with a standard disk, 4 ins. diam., firmly set, flush with the ground, with disk mkd. MARBLE CANYON 1947 and a triangle, bears S. 85°49' E., 16.69 chs. dist. The station is located in the parking lot of the Marble Canyon Lodge, on the S. side of U.S. Highway 89A.</p>
<hr/> <p>Dependent Resurvey of a Portion of the Subdivisional Lines, T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona</p> <hr/>	
<p>Restoring the survey executed by Karl L. Siebecker, in 1930</p> <hr/>	
<p>From the cor. of secs. 3, 4, 33, and 34, hereinbefore described.</p>	
<p>S. 0°03' E., bet. secs. 3 and 4.</p>	
<p>Over nearly level, open desert terrain.</p>	
4.30	<p>Center of U.S. Highway 89A, paved, 50 lks. wide, bears ENE and WSW.</p>
14.55	<p>Center of the Marble Canyon Lodge landing strip, paved, 50 lks. wide, bears N. 42°16' E. and S. 42°16' W.</p>
20.00	<p>The N. 1/16 sec. cor. of secs. 3 and 4, established by Charles Dryden, L.S. 4321, in 1956, as per a map in the possession of Jane Foster, owner of the Marble Canyon Lodge, monumented with an iron pipe, 20 ins. long, 1 in. diam., firmly set, 1 in. below ground, in a mound of stone, 2 ft. base, 1/2 ft. high. This is accepted as a careful and faithful determination of the position of the cor.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<div style="text-align: center;"> <p>T39N R7E N 1/16</p> <p>S 4 S 3</p> <p>1997</p> </div> <p>Deposit a magnet in a white plastic case beneath the stainless steel post.</p> <p>Bury the iron pipe inside the stainless steel post.</p> <p>From this cor. point, the windssock pole of the Marble Canyon Lodge landing strip, bears S. 86°17' W., 10.18 chs. dist.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 0°03' E., beginning new measurement.</p> <p>20.00 True point for the 1/4 sec. cor. of secs. 3 and 4; at proportionate dist., falls in a small wash, drains SW.</p> <p>20.30 The witness cor. for the 1/4 sec. cor. of secs. 3 and 4, monumented with an iron post, 1 in. diam., firmly set, projecting 18 ins. above ground, in a mound of stone, 4 ft. base, 1 ft. high, with brass cap mkd. 1/4 S4 S3 WC 1930.</p> <p>Add the marks T39N R7E 1997 to the brass cap.</p> <hr/> <div style="text-align: center;"> <p>Subdivision of Section 4, T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona</p> </div> <hr/> <p>From the 1/4 sec. cor. of secs. 4 and 9, monumented with an iron post, 1 in. diam., firmly set, projecting 26 ins. above ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. S4 1/4 S9 1930.</p> <p>Add the marks T39N R7E 1997 to the brass cap.</p> <p>The cor. is located on the SW edge of Seven Mile Draw, bears E. and NW, it's junction with the Colorado River bears E., approximately 25 chs. dist.</p> <p>N. 0°01' E., on the N. and S. center line of sec. 4.</p> <p>Across Seven Mile draw, 400 ft. deep, drains ESE.</p> <p>7.00 NE edge of Seven Mile draw, bears SE and NW; over open, rolling desert terrain.</p>

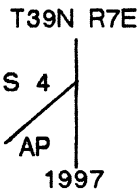
Subdivision of Section 4,
T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
16.59	Intersect line 3-4, of the metes and bounds survey in sec. 4, point for a witness point, hereinafter described.
26.05	Intersect line 1-2, of the metes and bounds survey in sec. 4, point for a witness point, hereinafter described.
39.98	<p>The center 1/4 sec. cor. of sec. 4, established by Charles Dryden, L.S. 4321, in 1956, at intersection with the E. and W. center line of sec. 4, as per a map in the possession of Jane Foster, owner of the Marble Canyon Lodge, monumented with an iron pipe, 16 ins. long, 2 ins. diam., firmly set, projecting 2 ins. above the ground, with a mound of stone, 3 ft. base, 1 ft. high, W. of the cor. This is accepted as a careful and faithful determination of the position of the cor.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 17 ins. in the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T39N R7E</p> <p style="text-align: center;">C 1/4 S 4</p> <p style="text-align: center;">1997</p> <p>Deposit a magnet in a white plastic case beneath the stainless steel post.</p> <p>Bury the iron pipe inside the stainless steel post.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°01' E., beginning new measurement.</p>
25.25	Center of U.S. Highway 89A, 35 lks. wide, bears ENE and WSW.
39.955	The 1/4 sec. cor. of secs. 4 and 33, hereinbefore described.
18.83	<hr style="width: 100%;"/> <p>From the true point for the 1/4 sec. cor. of secs. 3 and 4.</p> <p>N. 89°54' W., on the E. and W. center line of sec. 4.</p> <p>Over open, rolling desert terrain.</p> <p>Point for angle point 4, of the metes and bounds survey in sec. 4, hereinafter described.</p>

Subdivision of Section 4,
T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
20.02	<p>The center E. 1/16 sec. cor. of sec. 4, established by Charles Dryden, L.S. 4321, in 1956, as per a map in the possession of Jane Foster, owner of the Marble Canyon Lodge, monumented with a corroded iron pipe, 14 ins. long, 1 in. diam., firmly set, 3 ins. below the ground, in a mound of stone, 3 ft. base, 1 1/2 ft. high. This is accepted as a careful and faithful determination of the position of the cor.</p>
	<p>At the cor. point</p>
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p>
	<p style="text-align: center;">T39N R7E E 1/16 C ————— C S 4 1997</p>
	<p>Deposit a magnet in a white plastic case beneath the stainless steel post.</p>
	<p>Bury the iron pipe inside the stainless steel post.</p> <hr style="width: 20%; margin: 10px auto;"/>
	<p>N. 89°54' W., beginning new measurement.</p>
3.10	<p>Center of the Marble Canyon Lodge landing strip, paved, 50 lks. wide, bears N. 42°16' E. and S. 42°16' W.</p>
7.39	<p>Intersect line 1-2, of the metes and bounds survey in sec. 4.</p>
20.02	<p>The center 1/4 sec. cor. of sec. 4.</p> <hr style="width: 20%; margin: 10px auto;"/>
	<p>N. 89°54' W., beginning new measurement.</p>
39.96	<p>The 1/4 sec. cor. of secs. 4 and 5, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above ground, with a mound of stone, 3 ft. base, 2 ft. high, W. of the cor., with brass cap mkd. 1/4 S5 S4 1927.</p>
	<p>Add the marks T39N R7E 1997 to the brass cap.</p> <hr style="width: 80%; margin: 10px auto;"/>

Subdivision of Section 4,
T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>NE 1/4 of Section 4</p> <hr/>
	<p>From the center E. 1/16 sec. cor. of sec. 4.</p> <p>N. 0°01' W., on the N. and S. center line of the NE 1/4 of sec. 4.</p>
8.15	Point for angle point 1, of the metes and bounds survey in sec. 4, hereinafter described.
30.50	Center of U.S. Highway 89A, paved, 50 lks. wide, bears ENE and WSW.
39.98	The E. 1/16 sec. cor. of secs. 4 and 33.
	<hr/> <p>Metes and Bounds Survey in Section 4, T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona</p> <hr/>
	<p>The following metes and bounds survey encompasses a portion of the existing and proposed extension of the Marble Canyon Lodge landing strip.</p> <p>From the point for angle point 1, on the N. and S. center line of the NE 1/4 of sec. 4.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  </div>
	<p>Deposit a magnet in a white plastic case beneath the stainless steel post.</p> <p>From this cor. point, U.S. Coast and Geodetic Survey Bench Mark Z 404 1962, bears N. 84°50' E., 6.05 chs. dist., monumented with a standard disk, 4 ins. diam., firmly set in a concrete column, 12 ins. diam., projecting 4 ins. above the ground, with disk mkd. Z 404 1962, with a steel fence post alongside, located 115 lks. SE of the center of the Marble Canyon Lodge landing strip.</p> <p>S. 42°16' W., on line 1-2.</p>

Metes and Bounds Survey in Section 4,
T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
10.99	<p>Intersect the E. and W. center line of sec. 4.</p> <p>From this point, the center E. 1/16 sec. cor. of sec. 4, hereinbefore described, bears S. 89°54' E., 7.39 chs. dist.</p>
29.78	<p>Intersect the N. and S. center line of sec. 4, point for witness point.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div data-bbox="852 682 1006 903" style="text-align: center;"> </div> <p>Deposit a magnet in a white plastic case beneath the stainless steel post.</p> <p>From this cor. point, the center 1/4 sec. cor. of sec. 4, hereinbefore described, bears N. 0°01' E., 13.93 chs. dist.</p>
39.18	<p>Point for angle point 2.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div data-bbox="860 1312 998 1480" style="text-align: center;"> </div> <p>Deposit a magnet in a white plastic case beneath the stainless steel post.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 47°44' E., on line 2-3.</p>
6.36	<p>Point for angle point 3.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, in a mound of stone, 2 ft. base, to top, with brass cap mkd.</p>

Metes and Bounds Survey in Section 4,
T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<div data-bbox="860 304 998 451" style="text-align: center;"> <p>T39N R7E AP S4 1997</p> </div> <p data-bbox="414 493 1404 556">Deposit a magnet in a white plastic case beneath the stainless steel post.</p> <hr data-bbox="730 577 1112 588"/> <p data-bbox="414 619 828 651">N. 42°16' E., on line 3-4.</p>
<p data-bbox="267 682 341 714">2.39</p>	<p data-bbox="414 682 1339 745">Intersect the N. and S. center line of sec. 4, point for a witness point.</p> <p data-bbox="414 777 1421 871">Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, in a mound of stone, 2 ft. base, to top, with brass cap mkd.</p> <div data-bbox="860 903 998 1092" style="text-align: center;"> <p>WP T39N R7E S4 1997</p> </div> <p data-bbox="414 1123 1404 1186">Deposit a magnet in a white plastic case beneath the stainless steel post.</p> <p data-bbox="414 1218 1356 1281">From this cor. point, the 1/4 sec. cor. of secs. 4 and 9, hereinbefore described, bears S. 0°01' W., 16.59 chs. dist.</p>
<p data-bbox="251 1312 341 1344">33.94</p>	<p data-bbox="414 1312 1437 1354">Point for angle point 4, on the E. and W. center line of sec. 4.</p> <p data-bbox="414 1375 1356 1449">Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div data-bbox="860 1470 998 1669" style="text-align: center;"> <p>T39N R7E</p> </div> <p data-bbox="414 1690 1404 1753">Deposit a magnet in a white plastic case beneath the stainless steel post.</p> <hr data-bbox="730 1774 1112 1785"/> <p data-bbox="414 1816 1388 1879">N. 89°54' W., on line 4-5, along the E. and W. center line of sec. 4.</p>

Metes and Bounds Survey in Section 4,
T. 39 N., R. 7 E., Gila and Salt River Meridian, Arizona

CHAINS	
1.19	<p>Point for angle point 5, identical with the center E. 1/16 sec. cor. of sec. 4, hereinbefore described.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°01' W., on line 5-1, along the N. and S. center line of the NE 1/4 of sec. 4.</p>
8.15	<p>Angle point 1, the point of beginning.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <p>The area surveyed is located approximately 12 air miles southwest of Page, Arizona, and about 1 mile southwest of the Navajo Bridge over the Colorado River on U.S. Highway 89A. The Marble Canyon Lodge is immediately east of the project area, providing a motel, restaurant, store and gasoline station. Access is provided by U.S. Highway 89A and the Marble Canyon Lodge landing strip.</p> <p>Most of the terrain is gently rolling, open desert. The Colorado River gorge crosses the southeast 1/4, and the Seven Mile Draw gorge crosses the southwest 1/4 of section 4. The average elevation is approximately 3600 feet above sea level.</p> <p>The mean magnetic declination is 13 1/2° E., as taken from quadrangle map NAVAJO BRIDGE, ARIZONA, Provisional Edition, published in 1985 by U.S. Geological Survey.</p>

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Geoffrey A. Graham	Surveying Technician
John L. Reynolds	Surveying Technician

CERTIFICATE OF SURVEY

I, William P. Carpender, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 5th day of June, 1997, I have dependently resurveyed a portion of the north boundary and a portion of the subdivisional lines, subdivided section 4, and executed a metes and bounds survey in section 4, Township 39 North, Range 7 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 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.

SEPT. 21, 1998
(Date)

William P Carpender
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Arizona State Office
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the north boundary and a portion of the subdivisional lines, the subdivision of section 4, and the metes and bounds survey in section 4, Township 39 North, Range 7 East, Gila and Salt River Meridian, Arizona, executed by William P. Carpender, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

October 1, 1998
(Date)

Kenny D Ravnikar
(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. 39 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)