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 CERTAIN SECTIONS,

AND

METES-AND-BOUNDS SURVEYS IN SECTIONS 8 AND 9,

TOWNSHIP 14 NORTH, RANGE 5 EAST,

OF THE GILA AND SALT RIVER MERIDIAN,

IN THE STATE OF ARIZONA.

EXECUTED BY

Geoffrey A. Graham, Cadastral Surveyor

Under Special Instructions dated November 18, 2005, approved November 18, 2005, which provided for the surveys included under Group No. 970, and assignment instructions dated November 18, 2005.

Survey commenced November 30, 2005

Survey completed April 19, 2007

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TOWNSHIP 14 NORTH RANGE 5 EAST GILA AND SALT RIVER MERIDIAN, ARIZONA

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T. 14 N., R. 5 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 certain sections; and metes-and-bounds surveys in sections 8 and 9, Township 14 North, Range 5 East, Gila and Salt River Meridian, Arizona.

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

C. Burton Foster surveyed the North boundary, portions of the East and West boundaries and portions of the subdivisional lines in 1877. Francis E. Joy resurveyed portions of the subdivisional lines and the Montezuma Castle National Monument in 1931. This survey was cancelled on April 25, 1938. That same year, 1938, Horace M. Muscott, Claude F. Warner and Frank Motoh resurveyed portions of the subdivisional lines and surveyed the remaining subdivisional lines, and subdivided sections 8, 16 and 17 to the extent needed to identify the then boundary of the Montezuma Castle National Monument. In 1972, Leonard W. Murphy resurveyed portions of the subdivisional lines and subdivided section 18.

The survey was executed in accordance with the specifications as set forth in the <u>Manual of Instructions for the Survey of the Public Lands of the United States, 1973</u>, and the Special Instructions dated November 18, 2005, for Group No. 970, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 5700 and 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 observations post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) FERN FERNO MESA CORS ARP, AZAH ASHLER HILLS CORS ARP, and FST1 FLAGSTAFF 1 CORS ARP. The NAD 83 (CORS96) (EPOCH:2002), geographic position of the 1/4 section corner of sections 16 and 17, is as follows:

Latitude: 34°36'20.10" N. Longitude: 111°50'04.05" W.

The mean magnetic declination is 11 1/2° E.

CHAINS

Restoring the survey executed by Muscott, Warner and Motoh, in 1938

Beginning at the 1/4 sec. cor. of secs. 9 and 16, monumented with an iron post, 1 in. diam., firmly set, projecting 3 ins. above a mound of stone, 4 ft. base, 1 1/2 ft. high, with brass cap mkd. S9 1/4 S16 1931.

Add the marks 2005 to the brass cap.

Cor. is located at the base of a limestone cliff, 20 ft. high, bearing NE and SW, facing NW, and on the left side of the head of a ravine, drains N. 70° W.

S. 85°57' W., bet. secs. 9 and 16.

Descending into the Beaver Creek valley, over rocky terrain.

19.98 The W. 1/16 sec. cor. of secs. 9 and 16, monumented with an iron post, 1 in. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. S9 W 1/16 S16 1938.

Add the marks T14N R5E 2005 to the brass cap.

Cor. is located 2 lks. N. of a fence bearing E. and W.

S. 85°57' W., beginning new measurement.

Over nearly level terrain.

5.58 Point selected for a witness point on line bet. secs. 9 and 16, at intersection with the left bank of Beaver Creek.

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

WP
T 14 N R 5 E
S 9
S 16

2005

Deposit a magnet in a white plastic case at the base of the stainless steel post.

Cor. is located on the left bank of Beaver Creek, in remains of a fence bearing ${\tt E.}$ and ${\tt W.}$

CHAINS	
6.71	Point for angle point 9, determined at the center of Beaver Creek, 80 lks. wide, course S. 51° E., hereinafter described.
19.96	The cor. of secs. 8, 9, 16 and 17, monumented with an iron post, 2 ins. diam., firmly set flush in a mound of stone 3 ft. base, 1 ft. high, with brass cap mkd. T14N R5E S8 S9 S17 S16 1931, with an aluminum tag mkd. YAVAPAI COUNTY GIS GPS PT#669 LS 21073 wired to the iron post.
	Add the marks 2005 to the brass cap.
	From this cor. point, an iron post, 1 1/4 ins. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd. USDI D12 + 3248.21 NPS, bears S. 30°34' E., 9.84 chs. dist.
	N. 0°10' E., bet. secs. 8 and 9.
	Gently ascending over rocky terrain.
3.66	Point selected for a witness point on line bet. secs. 8 and 9, at intersection with the right bank of Beaver Creek.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	WP T 14 N R 5 E
	S 8 S 9
	2005
	Deposit a magnet in a white plastic case at the base of the stainless steel post.
	Cor. is located 46 ft. above Beaver Creek at top of limestone cliff on the right bank, bears E. and W.
5.14	Point for angle point 1, determined at the center of Beaver Creek, 76 lks. wide, course N. 87° E., hereinafter described.
20.00	The S. 1/16 sec. cor. of sec. 8 only, monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above the ground, with brass cap incorrectly mkd. S 1/16 S8 S9 1938.
	Remove the marks S9 from, and add the marks T14N R5E 2005 to the brass cap.
	Cor. is located 2 1/2 lks. NE of a cor. of fences extending S. and W.

CHAINS

N. 0°06' E., beginning new measurement.

Over nearly level terrain.

20.03

The 1/4 sec. cor. of sec. 8 only, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above the ground, in a collar of stone, with brass cap mkd. 1/4 S8 1938, with an aluminum tag mkd. YAVAPAI COUNTY GIS GPS PT#591 LS 21073 wired to the iron post.

Add the marks T14N R5E 2005 to the brass cap.

Cor. is located 1 lk. E. of a fence bearing N. and S.

From this cor. point, the 1/4 sec. cor. of sec. 9 only, monumented with an iron post, 1 in. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. 1/4 S9 1938, bears N. $0^{\circ}49^{\circ}$ E., 96 lks. dist.

Restoring the survey executed by Muscott, Warner and Motoh, in 1931 and the survey executed by Leonard W. Murphy, in 1972

From the N-S 1/64 sec. cor. of sec. 18 only, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd. T14N R5E N-S 1/64 S18 1972, with an accessory mound of stone 2 ft. base, 1 ft. high, W. of the cor.

Add the marks 2005 to the brass cap.

N. 0°28' W., on line bet. secs. 17 and 18.

Over nearly level terrain.

- 9.22 The true point for the 1/4 sec. cor. of sec. 17 only, point falls on face of cliff, 125 ft. high.
- 9.92 The 1/4 sec. cor. of sec. 18 only, identical with the witness cor. for the 1/4 sec. cor. of sec. 17 only, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 10 ins. above the ground, in a collar of stone, with brass cap mkd. T14N R5E 1/4 S18 1972.

Add the marks 2005 to the brass cap.

Cor. is located 23 lks. N. of edge of vertical cliff on the right bank of Beaver Creek, bears E. and W.

CHAINS

From this cor. point, the cor. of secs. 7 and 17 only, at intersection with the E. bdy. of sec. 18, hereinafter described, bears N. $0^{\circ}09'$ W., 39.30 chs. dist.

From the cor. of secs. 8, 9, 16 and 17.

S. 89°59' W., bet. secs. 8 and 17.

Generally ascending over rolling, rocky terrain.

39.99

The 1/4 sec. cor. of secs. 8 and 17, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above a mound of stone, 5 ft. base, 2 ft. high, with brass cap mkd. S8 1/4 S17 1938.

Add the marks T14N R5E 2005 to the brass cap.

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

Over rolling, rocky terrain.

20.00

The W. 1/16 sec. cor. of secs. 8 and 17, monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above a mound of stone, 4 ft. base, 2 ft. high, with brass cap mkd. S8 W 1/16 S17 1938.

Add the marks T14N R5E 2005 to the brass cap.

Cor. is located 1 1/2 lks. W. of a cor. of fences extending N. 15 $^{\circ}$ E. and S.

S. 89°55' W., beginning new measurement.

Over undulating, rocky terrain.

20.00

The cor. of secs. 7, 8, and 17 only, monumented with an iron post, 2 ins. diam., firmly set flush in a mound of stone 4 ft. base, 1 ft. high, with brass cap incorrectly mkd. T14N R5E S7 S8 S17 43S17 1938.

Remove the marks 43S17 from, and add the marks 2005 to the brass cap.

Cor. is located 18 lks. S. of a dilapidated fence bearing E. and $\ensuremath{\mathtt{W}}$

From this cor. point, U.S.C. and G.S. second order triangulation station MON, monumented with a standard bronze rock tablet, 3 3/4 ins. diam., set flush in a limestone outcrop, mkd. "MON 1959" and a triangle, bears N. 24°27' E., 19.13 chs. dist.

	T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona
CHAINS	
	S. 89°56' W., beginning new measurement, bet. secs. 7 and 17.
	Over rolling, rocky terrain.
12.25	The cor. of secs. 7 and 17 only, at intersection with the E. bdy. of sec. 18, hereinbefore described, monumented with an iron post, 2 ins. diam., firmly set, 20 ins. below the ground, with brass cap mkd. T14N R5E S7 S18 S17 1938.
	Add the marks 2005 to the brass cap.
	Cor. is located 63 lks. S. of edge of pavement of the north bound lanes of Interstate Highway 17, and 16 lks. N. of the right-of-way fence, bears N. 66° E. and S. 66° W.
	Dependent Resurvey and Survey of the Subdivision of Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona Restoring the survey executed by
	Muscott, Warner and Motoh, in 1938
	From the 1/4 sec. cor. of secs. 8 and 17.
	N. 0°04' W., on the N. and S. center line of sec. 8.
	Generally descending over rocky terrain.
30.01	The center N-S 1/64 sec. cor. of sec. 8, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above a mound of stone, 3 ft. base, 2 ft. high, with brass cap mkd. N1/64 C SW 1/4 SE 1/4 C S8 1938.
	Add the marks T14N R5E 2005 to the brass cap.
	Cor. is located 2 lks. N. of an abandoned fence line, bears E. and W.
	N. 0°01' E., beginning new measurement.
	Over rolling, rocky terrain.

Dependent Resurvey and Survey of the Subdivision of Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS

4.99

Point for the center N-N-S 1/256 sec. cor. of sec. 8, monumented with an iron reinforcement rod, 1/2 in. diam., 17 ins. long, firmly set, projecting 3 ins. above the ground, with red plastic cap mkd. DALE STONE LS 12218. This rod was set in the course of an unrecorded 1993 survey under the direction of Dale W. Stone, Professional Land Surveyor, RLS No. 12218, on behalf of the Montezuma Castle National Monument. This position is accepted as a careful and faithful determination of the cor. position.

At the corner point

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, in a collar of stone, with brass cap mkd.

T 14 N R 5 E S 8 C-N-N-S 1/256

2005

Deposit a magnet in a white plastic case at the base, and the reinforcement rod inside of the stainless steel post.

Cor. is located in a cor. of fences extending N. and E.

N. 0°01' E., beginning new measurement.

Gently descending over rocky terrain.

4.99

The center 1/4 sec. cor. of sec. 8, monumented with an iron post, 1 in. diam., firmly set, projecting 20 ins. above the ground, in a scattered mound of stone, with brass cap mkd. C 1/4 S8 1938.

Add the marks T14N R5E 2005 to the brass cap.

Rebuild mound of stone 4 ft. base, to top.

Cor. is located 1 lk. NE of a cor. of fences extending S. and W.

N. 0°04' W., beginning new measurement.

Over rolling, rocky terrain.

40.00

The 1/4 sec. cor. of sec. 8 only, at intersection with line bet. secs. 5 and 8, monumented with an iron post, 1 in. diam., firmly set, projecting 5 ins. above a mound of stone 3 ft. base, 2 ft. high, with brass cap mkd. 1/4 S8 1938.

Dependent Resurvey and Survey of the Subdivision of Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS

from which the orig. bearing trees

- A dead juniper, 12 ins. diam., bears S. 45 1/2° E., 1.96 chs. dist., with scribe marks 1/4 S8 BT visible on a weathered blaze.
- A 10 ins. diam. trunk of a forked juniper, 24 ins. diam., bears S. 10 3/4° W., 3.77 chs. dist., with scribe marks 1/4 S8 BT visible on a weathered blaze.

Add the marks T14N R5E 2005 to the brass cap.

From this cor. point, the 1/4 sec. cor. of sec. 5 only, monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above a mound of stone 3 ft. base, 2 1/2 ft. high, with brass cap mkd. 1/4 S5 1938, bears N. 89°56' E., 72 lks. dist.

From the 1/4 sec. cor. of sec. 8 only, on the line bet. secs. 8 and 9.

S. 89°55' W., on the E. and W. center line of sec. 8.

Over rocky terrain.

40.12 The center 1/4 sec. cor. of sec. 8.

S. 89°55' W., beginning new measurement.

Over rolling, rocky terrain.

Point for angle point 1, at intersection with the N. bound right-of-way Interstate Highway 17, monumented with an iron reinforcement rod, 1/2 in. diam., 16 ins. long, firmly set, projecting 3 ins. above the ground, with red plastic cap mkd. DALE STONE LS 12218. This rod was set in the course of an unrecorded 1993 survey under the direction of Dale W. Stone, Professional Land Surveyor, RLS No. 12218, on behalf of the Montezuma Castle National Monument. This position is accepted as a careful and faithful determination of the cor. position.

At the corner point

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.

Dependent Resurvey and Survey of the Subdivision of Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS

T 14 N R 5 E

S 8 AP1

2005

Deposit a magnet in a white plastic case at the base, and the reinforcement rod inside of the stainless steel post.

Cor. is located at intersection of fences, bearing N. 36° E., S. 36° W., and E.

From this cor. point, Interstate Highway 17 right-of-way station 4787+50, monumented with an aluminum disc, 3 ins. diam., set flush in a concrete collar, 16 ins. diam., mkd. 4787+50 1978, with 4 ins. angle iron guard post alongside, bears, N. $36^{\circ}29^{\circ}$ E., 4.97 chs. dist.

From this same cor. point, Interstate Highway 17 right-of-way station 4782+00, hereinafter described, bears S. 36°29' W., 90 lks. dist.

S. 89°55' W., beginning new measurement.

Ascending over rolling, rocky terrain.

37.01

The 1/4 sec. cor. of secs. 7 and 8, monumented with an iron post, 1 in. diam., firmly set, projecting 9 ins. above the ground, with brass cap mkd. 1/4 S7 S8 1938, with a scattered accessory mound of stone W. of the cor.

from which the orig. bearing tree

A 10 ins. diam. trunk of a juniper, 26 ins. diam., bears N. 22 3/4° E., 98 lks. dist., with scribe marks 1/4 S8 BT visible on weathered blaze.

Add the marks T14N R5E 2005 to the brass cap.

Rebuild the accessory mound of stone 2 ft. base, 1 1/2 ft. high, W. of the cor.

SE 1/4, Section 8

From the S. 1/16 sec. cor. of sec. 8 only.

Dependent Resurvey and Survey of the Subdivision of Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS	
	S. $89^{\circ}56'$ W., on a portion of the E. and W. center line of the SE $1/4$ of sec. 8.
	Over nearly level terrain.
20.03	The SE 1/16 sec. cor. of sec. 8, monumented with an iron post, 1 in. diam., firmly set, projecting 18 ins. above the ground, with brass cap mkd. SE 1/16 S8 1938.
	Add the marks T14N R5E 2005 to the brass cap.
	Cor. is located 2 lks. NE of a cor. of fences extending N. and E.
ĺ	
	N. 0°03' E., beginning new measurement, on a portion of the N. and S. center line of the SE $1/4$ of sec. 8.
10.03	The center N-SE $1/64$ sec. cor. of sec. 8, monumented with an iron post, 1 in. diam., firmly set, projecting 9 ins. above the ground, with brass cap mkd. N $1/64$ SE $1/4$ S8 1938.
	Add the marks T14N R5E 2005 to the brass cap.
	Cor. is located 2 1/2 lks. NE of a cor. of fences extending S. and W.
	S. 89°58' W., beginning new measurement, on a portion of the E. and W. center line of the NW 1/4 of the SE 1/4 of sec. 8.
	Descending over rocky terrain.
10.03	Point for the NW-SE 1/64 sec. cor. of sec. 8, monumented with an iron reinforcement rod, 1/2 in. diam., 16 ins. long, firmly set, projecting 3 ins. above the ground, with red plastic cap mkd. DALE STONE LS 12218. This rod was set in the course of an unrecorded 1993 survey under the direction of Dale W. Stone, Professional Land Surveyor, RLS No. 12218, on behalf of the Montezuma Castle National Monument. This position is accepted as a careful and faithful determination of the cor. position.
	At the corner point
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in a collar of stone, with brass cap mkd.
	T 14 N R 5 E S 8 NW-SE 1/64
	with brass cap mkd. SE 1/16 S8 1938. Add the marks T14N R5E 2005 to the brass cap. Cor. is located 2 lks. NE of a cor. of fences extending N. a E. N. 0°03' E., beginning new measurement, on a portion of the and S. center line of the SE 1/4 of sec. 8. The center N-SE 1/64 sec. cor. of sec. 8, monumented with iron post, 1 in. diam., firmly set, projecting 9 ins. above t ground, with brass cap mkd. N 1/64 SE 1/4 S8 1938. Add the marks T14N R5E 2005 to the brass cap. Cor. is located 2 1/2 lks. NE of a cor. of fences extending and W. S. 89°58' W., beginning new measurement, on a portion of the and W. center line of the NW 1/4 of the SE 1/4 of sec. 8. Descending over rocky terrain. Point for the NW-SE 1/64 sec. cor. of sec. 8, monumented with iron reinforcement rod, 1/2 in. diam., 16 ins. long, firmly se projecting 3 ins. above the ground, with red plastic cap mk DALE STONE LS 12218. This rod was set in the course of unrecorded 1993 survey under the direction of Dale W. Ston Professional Land Surveyor, RLS No. 12218, on behalf of the Montezuma Castle National Monument. This position is accept as a careful and faithful determination of the cor. position. At the corner point Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam 20 ins. in the ground, in a collar of stone, with brass cap mkd T14 N R 5 E S 8

2005

Dependent Resurvey and Survey of the Subdivision of Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS

Deposit a magnet in a white plastic case at the base, and the reinforcement rod inside of the stainless steel post.

Cor. is located at the terminus of a new fence extending N. and an older fence extending ${\tt E}.$

From this cor. point, the center S-N 1/64 sec. cor. of sec. 8, bears S. $89^{\circ}58'$ W., 10.03 chs. dist.

Survey of the Subdivision of Section 8

N. 0°01' E., beginning new measurement, on a portion of the N. and S. center line of the NW 1/4 of the SE 1/4 of sec. 8.

Over rolling, rocky terrain.

3.825 Center of paved road, 30 ft. wide, bears N. 40° E., and S. 40° W.

4.995 Point for the center N-NW-SE 1/256 sec. cor. of sec. 8, monumented with an iron reinforcement rod, 1/2 in. diam., 16 ins. long, firmly set, projecting 3 ins. above the ground, with red plastic cap mkd. DALE STONE LS 12218. This rod was set in the course of an unrecorded 1993 survey under the direction of Dale W. Stone, Professional Land Surveyor, RLS No. 12218, on behalf of the Montezuma Castle National Monument. This position is accepted as a careful and faithful determination of the cor. position.

At the corner point

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, in a collar of stone, with brass cap mkd.

T 14 N R 5 E S 8 C-N-NW-SE 1/256

2005

Deposit a magnet in a white plastic case at the base, and the reinforcement rod inside of the stainless steel post.

Cor. is located at a cor. of fences extending W. and S. 40° W., along the northerly edge of paved road.

S. $89^{\circ}57'$ W., beginning new measurement, along the E. and W. center line of the NW 1/4 of the NW 1/4 of the SE 1/4 of sec. 8.

Dependent Resurvey and Survey of the Subdivision of Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS	1. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona
CIMIND	
	Over rolling, rocky terrain.
10.03	The center N-N-S 1/256 sec. cor. of sec. 8, hereinbefore described.
	SW 1/4, Section 8
	Restoring the survey executed by Muscott, Warner and Motoh, in 1938
	From the W. 1/16 sec. cor. of secs. 8 and 17.
	N. $0^{\circ}04'$ W., on a portion of the N. and S. center line of the SW $1/4$ of sec. 8.
	Ascend over rolling, rocky terrain.
17.54	Point of Curvature and station 4764+83.39, on the N. bound right-of-way for Interstate Highway 17, monumented with an aluminum disc, 3 ins. diam., firmly set flush in a concrete collar 16 ins. diam., mkd. POC 4764+83.39 1978, with a 4 ins. wide angle iron guard post alongside.
	This point is located in the bottom of, and on the left side of a small wash, 4 ft. wide, 2 ft. deep, drains S. 10° W., from N. 40° E.
18.875	Point for angle point 7, sec. 8, hereinafter described.
19.975	Point for the SW 1/4 of sec. 8, at proportionate dist., there is no remaining evidence of the orig. cor., not monumented.
29.985	The center N-SW 1/64 sec. cor. of sec. 8, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above a mound of stone 4 ft. base, 2 ft. high, with brass cap mkd. N 1/64 SW 1/4 S8 1938, with a 2 1/2 ins. wide angle iron guard post alongside.
	Add the marks T14N R5E 2005 to the brass cap.
	From the center N-S 1/64 sec. cor. of sec. 8.
	S. $89^{\circ}53'$ W., on the E. and W. center line of the NE $1/4$ of the SW $1/4$ of sec. 8.
	Over rolling, rocky terrain.
10.045	Point for angle point 5, sec. 8, hereinafter described.

Dependent Resurvey and Survey of the Subdivision of Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

	1. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona
CHAINS	
11.365	Point for angle point 4, sec. 8, identical with the Point of Tangency and station 47733+34.20, on the N. bound right-of-way for Interstate Highway 17, monumented with an aluminum disc, 3 ins. diam., firmly set flush in a concrete collar 14 ins. diam., mkd. POT 47733+34.20 ELEV. 3397.99 1978, with a 4 ins. wide angle iron guard post alongside.
19.99	The center N-SW 1/64 sec. cor. of sec. 8.
	Dependent Resurvey of the Subdivision of Section 16, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona
	Restoring the survey executed by Muscott, Warner and Motoh, in 1938
	From the 1/4 sec. cor. of secs. 16 and 21, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above a mound of stone, 4 ft. base, 2 ft. high, with brass cap mkd. S16 1/4 S21 1938.
	from which the orig. bearing trees
	A dead juniper, 12 ins. diam., bears N. 54° E., 2.84 chs. dist., with scribe marks 1/4 S16 BT visible on weathered blaze.
	A decaying juniper, 24 ins. diam., bears S. 42 1/2° E., 86 lks. dist., with scribe marks 1/4 S21 BT visible on weathered blaze. (Record: 91 lks. dist.)
	Add the marks T14N R5E 2005 to the brass cap.
	N. 0°03' W., on the N. and S. center line of sec. 16.
	Over rolling, broken terrain.
40.04	The center 1/4 sec. cor. of sec. 16, monumented with an iron post, 1 in. diam., firmly set, projecting 16 ins. above the ground, in a scattered mound of stone, with brass cap mkd. C 1/4 S16 1938.
	Add the marks T14N R5E 2005 to the brass cap.
	Rebuild mound of stone 3 ft. base, to top.
	Cor. is located 2 lks. SE of a cor. of fences extending N. and W.

Dependent Resurvey of the Subdivision of Section 16, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS	
	N 00021 M handandan
	N. 0°02' W., beginning new measurement.
	Over broken, rocky terrain.
42.78	The 1/4 sec. cor. of secs. 9 and 16, hereinbefore described.
	From the 1/4 sec. cor. of secs. 15 and 16, monumented with an iron post, 1 in. diam., firmly set flush in a mound of stone 3 ft. base, 2 1/2 ft. high, with brass cap mkd. 1/4 S16 S15 1938.
	from which the orig. bearing trees
	A 12 ins. diam. trunk of a juniper, 34 ins. diam., bears N. 59 1/2° E., 3.39 chs. dist., with a healed blaze.
·	A juniper, 24 ins. diam., bears S. 16 1/4° W., 94 lks. dist., with scribe marks 1/4 S16 BT visible on partially healed blaze. (Record: S. 13 3/4° W., 81 lks dist.) This tree is utilized as a post in a fence bearing N. and S.
	Add the marks T14N R5E 2005 to the brass cap.
	S. 89°58' W., on the E. and W. center line of sec. 16.
	Gently ascending over rocky terrain.
0.14	Fence, bears N. and S.
39.86	The center 1/4 sec. cor. of sec. 16.
	S. 89°57' W., beginning new measurement.
	Descending over rocky terrain.
19.94	The center W. 1/16 sec. cor. of sec. 16, monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd. W 1/16 C-C S16 1938.
	Add the marks T14N R5E 2005 to the brass cap.
	Cor. is located 2 lks. S. of a fence, bears E. and W.
	S. 89°54' W., beginning new measurement.
	Descending, leaving rocky terrain.
i	l l

Dependent Resurvey of the Subdivision of Section 16, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS

9.96

The center W-W 1/64 sec. cor. of sec. 16, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above the ground in a collar of stone, with brass cap mkd. NW 1/4 W1/64 C-C S16 SW 1/4 1938.

Add the marks T14N R5E 2005 to the brass cap.

Cor. is located 2 lks. S. of a fence, bears E. and W.

West, beginning new measurement.

Over nearly level terrain.

9.97

The 1/4 sec. cor. of secs. 16 and 17, monumented with an iron post, 1 in. diam., firmly set, 12 ins. below the ground, with brass cap incorrectly mkd. 1/4 S16 S17 1938.

from which the orig. bearing trees

An 18 ins. diam. trunk of a forked juniper, 30 ins. diam., bears N. 54° E., 10.98 chs. dist., with scribe marks 1/4 S16 BT visible on a partially healed blaze.

An Arizona sycamore, 25 ins. diam., bears N. 8° W., 6.71 chs. dist., with a healed blaze.

Correct the brass cap to read $1/4~\mathrm{S17}~\mathrm{S16}$, and add the marks T14N R5E 2005 to it.

Cor. is located in an abandoned cultivated field, 1 lk. N. of a fence bearing ${\tt E.}$ and ${\tt W.}$

Dependent Resurvey of the Subdivision of Section 17, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

Restoring the survey executed by Muscott, Warner and Motoh, in 1938

From the 1/4 sec. cor. of secs. 17 and 20, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above limestone, with brass cap mkd. S17 1/4 S20 1938.

Add the marks T14N R5E 2005 to the brass cap.

Cor. is located at the edge of a limestone outcrop, 14 ft. high, bears N. and S.

N. $0^{\circ}03^{\circ}$ W., on the N. and S. center line of sec. 17.

Dependent Resurvey of the Subdivision of Section 17, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

	T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona
CHAINS	
	Leaving rocky terrain.
1.55	Beaver Creek, 18 ft. wide, 1 ft. deep, course W. from E.
39.99	Point for the center 1/4 sec. cor. of sec. 17, at intersection with the E. and W. center line.
	Set an aluminum post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, in a collar of stone, with aluminum cap mkd.
	T 14 N R 5 E C 1/4 S17
	2007
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
	From this cor. point, the center 1/4 sec. cor. of sec. 17, set in 1938, monumented with an iron post, 1 in. diam., firmly set, 4 ins. below ground, with brass cap mkd. C 1/4 S17 1938, bears N. 56°35' E., 4.8 lks. dist., located in the remains of a washed out fence, used to bear E. and W. The monument was amended as follows: Add the marks AM T14N R5E 2005 to the brass cap and leave iron post in place 4 ins. below the ground.
79.99	The 1/4 sec. cor. of secs. 8 and 17, hereinbefore described.
	From the 1/4 sec. cor. of secs. 16 and 17.
	S. 89°57' W., on the E. and W. center line of sec. 17.
	Leave and re-enter nearly level terrain, crossing over rocky spur.
29.96	Point for the center W-E 1/64 sec. cor. of sec. 17.
	Set an aluminum post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with aluminum cap mkd.
	T 14 N R 5 E W-E 1/64 C
	2007
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Dependent Resurvey of the Subdivision of Section 17, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS

From this cor. point, the center W-E 1/64 sec. cor. of sec. 17, set in 1938, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd. NE 1/4 W 1/64 C-C S17 SE 1/4 1938, located 2 lks. S. of a fence, bears E. and W., bears N. 57°16' E., 3.3 lks. dist. The monument was amended as follows: Add the marks AM T14N R5E 2005 to the brass cap and reset iron post 2 ins. below the ground.

- 39.95
 - The center 1/4 sec. cor. of sec. 17.
- 59.925

Point for the center W. 1/16 sec. cor. of sec. 17.

Set an aluminum post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in a collar of stone, with aluminum cap mkd.

2007

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

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

From this cor. point, the center W. 1/16 sec. cor. of sec. 17, set in 1938, monumented with an iron post, 1 in. diam., firmly set, projecting 16 ins. above the ground, in a scattered mound of stone, with brass cap mkd. W 1/16 C-C S17 1938, located 3 lks. SW of a cor. of fences extending N., E. and W., bears N. 0°27' W., 8.0 lks. dist. The monument was amended as follows: Add the marks AM T14N R5E 2005 to the brass cap, cut off upper portion of iron post with brass cap, 6 ins. below ground and bury alongside bottom portion.

92.14

The true point for the 1/4 sec. cor. of sec. 17 only, hereinbefore described.

NW 1/4, Section 17

From the center W. 1/16 sec. cor. of sec. 17,

N. 0°05' W., on the N. and S. center line of the NW 1/4 of sec. 17.

Ascending over rocky terrain, along fence.

20.005

Point for the NW 1/16 sec. cor. of sec. 17.

Dependent Resurvey of the Subdivision of Section 17, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS

Set an aluminum post, 18 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in a mound of stone, 3 1/2 ft. base, to top, with aluminum cap mkd.

T 14 N R 5 E NW 1/16 S17

2007

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

From this cor. point, the NW 1/16 sec. cor. of sec. 17, set in 1938, monumented with an iron post, 1 in. diam., firmly set, projecting 16 ins. above a scattered mound of stone, with brass cap mkd. NW 1/16 S 17 1938, located 1 1/2 lks. W. of a fence, bears N. and S., bears N. $2^{\circ}28^{\circ}$ E., 4.5 lks. dist. The monument was amended as follows: Add the marks AM T14N R5E 2006 to the brass cap, cut off upper portion of iron post with brass cap, 5 ins. below ground and bury alongside bottom portion.

40.01

The W. 1/16 sec. cor. of secs. 8 and 17, hereinbefore described.

Metes-and-Bounds Survey in Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

From angle point 1, sec. 8, on the E. and W. center line of the section, hereinbefore described.

S. 36°29' W., on line 1-2, sec. 8, on the N. bound right-of-way Interstate Highway 17.

0.90

Point for angle point 2, identical with the Point of Tangency and station 4782+00, at 140 ft. right of construction centerline, on the N. bound right-of-way for Interstate Highway 17, monumented with an aluminum disc, 3 ins. diam., firmly set flush in a concrete collar 12 ins. diam., mkd. POT 4782+00 1978, with a 4 ins. wide angle iron guard post alongside.

Cor. is located at a cor. of fences extending N. 36° E. and N. 53° W.

 $N.~53^{\circ}27'$ W., on line 2-3, sec. 8, on the N.~bound right-of-way Interstate Highway 17.

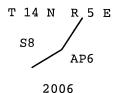
Metes-and-Bounds Survey in Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

F	1. 14 M., M. 5 E., GIIA AND SAIL RIVER MERIDIAN, ARIZONA
CHAINS	
0.76	Point for angle point 3, identical with the Point of Tangency and station 4782+00, at 90 ft. right of construction centerline, on the N. bound right-of-way for Interstate Highway 17, monumented with an aluminum disc, 3 ins. diam., firmly set flush in a concrete collar 13 ins. diam., mkd. POT 4782+00 1978, with a 4 ins. wide angle iron guard post alongside.
	Cor. is located in a cor. of fences extending S. 53° E. and S. 37° W.
	S. 36°33' W., on line 3-4, sec. 8, on the N. bound right-of-way Interstate Highway 17.
12.11	Angle point 4, on the E. and W. center line of the NE 1/4 of the SW 1/4 sec. 8, hereinbefore described.
	N. 89°53' E., on line 4-5, on the N. bound right-of-way Interstate Highway 17 and on the E. and W. center line of the NE 1/4 of the SW 1/4 of sec. 8.
1.32	Point for angle point 5, on the E. and W. center line of the NE 1/4 of the SW 1/4 of sec. 8, determined at record dist. according to Sheet 15 of Drawing No. D-13-T-380, dated August 9, 1967, plans for Interstate 17, on file at Arizona Department of Transportation, Phoenix, Arizona.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	T 14 N R 5 E
	——————————————————————————————————————
	S8
	2005
	Deposit a magnet in a white plastic case at the base of the stainless steel post.
	Cor. is located 2 lks. W. of a cor. of fences extending S. 38° W. and W.
	S. 38°12' W., on line 5-6, sec. 8, on the N. bound right-of-way Interstate Highway 17.
10.94	Point for angle point 6, at intersection with a non tangent curve to the left, determined at record arc length according to Sheet 14 of Drawing No. D-13-T-380, dated August 9, 1967, plans for Interstate 17, on file at Arizona Department of Transportation, Phoenix, Arizona.

Metes-and-Bounds Survey in Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, in a collar of stone, with brass cap mkd.



Deposit a magnet in a white plastic case at the base of the stainless steel post.

Cor. is located 42 lks. W. of a fence, bears N. 36 $1/2^{\circ}$ E. and S. 36 $1/2^{\circ}$ W.

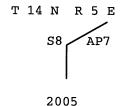
From this cor. point, an aluminum disc, 3 ins. diam., firmly set flush in a concrete collar 14 ins. diam., mkd. POC 4767+ 1978, with a 4 ins. wide angle iron guard post alongside, bears S. 38°12' W., 1.42 chs dist.

Thence on line 6-7, along the arc of a non tangent curve to the left, having a central angle of 28°25'34", a radius of 545.67 ft., on the N. bound right-of-way Interstate Highway 17, the chord of said arc bears S. 51°21'39" W., 4.060 chs. dist.

4.102

Point for angle point 7, sec. 8, determined at record dist., on the N. and S. center line of the SW 1/4 of sec. 8, according to Sheet 14 of Drawing No. D-13-T-380, dated August 9, 1967, plans for Interstate 17, on file at Arizona Department of Transportation, Phoenix, Arizona.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.



Deposit a magnet in a white plastic case at the base of the stainless steel post.

Cor. is located in a cor. of fences extending S. and curving N. 58° E.

	Metes-and-Bounds Survey in Section 8, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona
CHAINS	The state of the s
	From this cor. point, the Point of Curvature and station 4764+83.39, on the N. bound right-of-way of Interstate Highway 17, hereinbefore described, bears S. 0°04' E., 1.335 chs. dist.
	Metes-and-Bounds Survey in Section 9, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona
	From the point for angle point 1, located the center of Beaver Creek, at the intersection of the line bet. secs. 8 and 9, hereinbefore described.
	Not monumented.
	From this point, the witness point at the intersection of the line bet. secs. 8 and 9 and the right bank of Beaver Creek, hereinbefore described, bears S. 0°10' W., 1.48 chs. dist.
	N. 87°00' E., on line 1-2, on the medial line of the stream of Beaver Creek.
0.58	Point for angle point 2, located on the medial line of the stream of Beaver Creek.
	Not monumented.
	S. 77°42' E., on line 2-3, on the medial line of the stream of Beaver Creek.
2.48	Point for angle point 3, located on the medial line of the stream of Beaver Creek.
	Not monumented.
	S. 69°05' E., on line 3-4, on the medial line of the stream of Beaver Creek.
3.51	Point for angle point 4, located on the medial line of the stream of Beaver Creek.
	Not monumented.
	S. 66°33' E., on line 4-5, on the medial line of the stream of Beaver Creek.
1.76	Point for angle point 5, located on the medial line of the stream of Beaver Creek.
	Not monumented.

Metes-and-Bounds Survey in Section 9, T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

p	T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona
CHAINS	
	S. 71°57' E., on line 5-6, on the medial line of the stream of Beaver Creek.
1.85	Point for angle point 6, located on the medial line of the stream of Beaver Creek. Not monumented.
	S. 87°39' E., on line 6-7, on the medial line of the stream of Beaver Creek.
1.96	Point for angle point 7, located on the medial line of the stream of Beaver Creek. Not monumented.
	S. 81°54' E., on line 7-8, on the medial line of the stream of Beaver Creek.
0.29	Point for angle point 8, located on the medial line of the stream of Beaver Creek. Not monumented.
	S. 51°00' E., on line 8-9, on the medial line of the stream of Beaver Creek.
1.67	Point for angle point 9, located in the center of Beaver Creek, at intersection with the line bet. secs. 9 and 16.
	Not monumented.
	From this point, the witness point at intersection with the line bet. secs. 9 and 16 and the left bank of Beaver Creek, hereinbefore described, bears N. 85°57' E., 1.13 chs. dist.

T. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona

CHAINS

GENERAL DESCRIPTION

The purpose of this survey is to locate the boundary of the Montezuma Castle National Monument, located just north of the community of Camp Verde, Arizona and the Cliff Castle Casino. The Park Visitors Center and related facilities are more or less centered in the Monument, with their closest neighbors being in the N. half of sec. 9 and in sec. 18. Access is provided by the entrance road to the park, as well as off of Interstate Highway 17. There are a few dirt roads off of the park entrance road meandering into the Beaver Creek bottom, but most of the points of this survey were best accessed through hiking.

The elevation varies from 3560 ft. above sea level on the hills to 3130 ft. in Beaver Creek. The creek itself was refreshing to work around as flowing water is a rare commodity in most of Arizona. The depth of the creek is shallow enough for fording in some places, but appeared quite deep in others. We did not have the capacity to measure the depth of the stream for this We saw signs of beaver activity on the creek, but no animals. The only aquatic life observed was a dead fish. Elk and deer sign was observed in the creek valley, but no animals were observed other than birds and rabbits. The vegetation on the hills is primarily juniper, Palo Christo, cats claw, scrub mesquite and a variety of native grasses and cacti. The lower regions are covered with a mixture of Arizona sycamore, hackberry, cottonwood, willow and native grasses and cacti. Vast areas of the valley are covered in a moderately dense mesquite boscage.

The mean magnetic declination of 11 $1/2^{\circ}$ E. was derived from the National Geophysical Data Center's magnetic declination calculator, GEOMAG V 6.0, utilizing the International Geomagnetic Reference Field model for years 2005 through 2010, for the dates of survey.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Robert J. Lyle	Surveying Technician
Gene L. Staples	Surveying Technician

CERTIFICATE OF SURVEY

I, Geoffrey A. Graham, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 18th day of November, 2005, I have dependently resurveyed a portion of the subdivisional lines, the subdivision of certain sections; and executed metes-and-bounds surveys in sections 8 and 9, T. 14 N., R. 5 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, 1973, and in specific manner described in the foregoing field notes.

7/31/2007 (Date)

Wadastral 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 certain sections, and metes-and-bounds surveys in sections 8 and 9, T. 14 N., R. 5 E., Gila and Salt River Meridian, in the State of Arizona, executed by Geoffrey A. Graham, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

9/12/2007 Acting (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. 14 N., R. 5 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

(Chief Cadastral Surveyor of Arizona)