

ORIGINAL

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FIELD NOTES  
OF THE  
SUBDIVISION OF A PORTION OF SECTION 28,  
THE SUBDIVISION OF SECTION 29  
AND METES-AND-BOUNDS SURVEYS  
IN SECTIONS 28 AND 29  
**TOWNSHIP 20 NORTH, RANGE 7 EAST,**  
OF THE GILA AND SALT RIVER MERIDIAN,  
IN THE STATE OF ARIZONA.

**EXECUTED BY**

**Geoffrey A. Graham, Cadastral Surveyor**

Under Supplemental Special Instructions dated September 28, 2009, approved September 28, 2009, which provided for the surveys included under Group No. 1016, and assignment instructions dated September 28, 2009.

**Survey commenced October 5, 2009**

**Survey completed October 15, 2009**

**INDEX DIAGRAM**

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 GILA AND SALT RIVER MERIDIAN, ARIZONA

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**T. 20 N., R. 7 E., Gila and Salt River Meridian, Arizona**

## CHAINS

The following field notes describe the subdivision of a portion of section 28, the subdivision of section 29 and the survey of metes-and-bounds surveys in sections 28 and 29, Township 20 North, Range 7 East, Gila and Salt River Meridian, Arizona.

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

In 1878, John L. Harris surveyed the exterior boundaries and the subdivisional lines of the township. In 1966, Wallace R. Ott remonumented a portion of the subdivisional corners throughout the township. In 2007, Geoffrey A. Graham dependently resurveyed a portion of the subdivisional lines and subdivided section 28.

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 Supplemental Special Instructions dated September 28, 2009, for Group Number 1016, Arizona.

The true meridian direction and length of all lines were determined by static and 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) DJ8981 FST5 FLAGSTAFF 5 CORS ARP, DJ8983 FST6 FLAGSTAFF 6 CORS ARP and DL1882 AZFL NAU FLAGSTAFF CORS ARP. The NAD 83 (CORS96) (EPOCH:2002) geographic position of the 1/4 section corner of sections 20 and 29, is as follows:

Latitude: 35°05'36.73" N.                      Longitude: 111°40'37.20" W.

The mean magnetic declination is 11 1/4° E.

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**Dependent Resurvey of a Portion of  
the Subdivision of Section 28,  
T. 20 N., R. 7 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Restoring the Survey executed by Geoffrey A. Graham, in 2007</p> <hr/>
	<p>Beginning at the center 1/4 sec. cor. of sec. 28, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above the ground, with aluminum cap mkd. T20N R7E C 1/4 S28 2007.</p>
	<p>S. 89°47' W., on the E. and W. center line of sec. 28.</p>
4.97	<p>Point for the C-E-E-W 1/256 sec. cor. of sec. 28.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T 20 N R 7 E S 28 C-E-E-W 1/256  2009</p>
	<p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>
	<p>Set a guard post with USFS monument and boundary signs, near.</p>
19.86	<p>The center W. 1/16 sec. cor. of sec. 28, monumented with an aluminum post, 2 1/2 ins. diam., firmly set flush with the ground, with aluminum cap mkd. T20N R7E W 1/16 C-C S28 2007.</p> <hr/>
	<p>N. 0°22' W., on the N. and S. center line of the NW 1/4 of sec. 28.</p>
0.455	<p>Point for angle point 2, sec. 28.</p> <p>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.</p> <p style="text-align: center;">T 20 N R 7 E S28  ┌ │ AP2 └</p> <p style="text-align: center;">2009</p>
	<p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>
	<p>Set a guard post with USFS monument sign, near.</p>

**Dependent Resurvey of a Portion of  
the Subdivision of Section 28,  
T. 20 N., R. 7 E., Gila and Salt River Meridian, Arizona**

CHAINS	
40.555	<p>The W. 1/16 sec. cor. of secs. 21 and 28, monumented with an aluminum post, 2 1/2 ins. diam., firmly set flush in a collar of stone, with aluminum cap mkd. T20N R7E S21 W 1/16 S28 2007.</p> <hr/> <p style="text-align: center;"><b>Subdivision of Section 29, T. 20 N., R. 7 E., Gila and Salt River Meridian, Arizona</b></p> <hr/> <p>From the 1/4 sec. cor. of secs. 29 and 32, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd. T20N R7E 1/4 S29 S32 1966.</p> <p>from which the orig. bearing trees</p> <p style="padding-left: 40px;">A ponderosa pine stump, 18 ins. diam., 3 1/2 ft. high, bears S. 25° W., 24 lks. dist., with scribe marks 1/4 S visible on partially healed blaze.</p> <p style="padding-left: 40px;">A ponderosa pine, 20 ins. diam., bears N. 77° W., 54 lks. dist., with scribe marks 1/4 S BT visible on partially healed blaze.</p> <p>Add the marks 2009 to the brass cap.</p> <p>Set a guard post with USFS monument sign, near.</p> <p>N. 0°03' W., on the N. and S. center line of sec. 29.</p>
19.955	Point for the center S. 1/16 sec. cor. of sec. 29, not monumented.
39.91	Point for the center 1/4 sec. cor. of sec. 29, at intersection with the E. and W. center line, not monumented.
80.13	<p>The 1/4 sec. cor. of secs. 20 and 29, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. T20N R7E S20 1/4 S29 1966.</p> <p>from which the 1966 bearing trees</p> <p style="padding-left: 40px;">A ponderosa pine, 21 ins. diam., bears N. 35° E., 1.05 chs. dist., with a healed blaze.</p> <p style="padding-left: 40px;">A ponderosa pine, 21 ins. diam., bears S. 27° E., 96 lks. dist., with a healed blaze.</p> <p>Add the marks 2009 to the brass cap.</p> <p>Set a guard post with USFS monument sign, near.</p> <hr/>

**Subdivision of Section 29,  
T. 20 N., R. 7 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>From the 1/4 sec. cor. of secs. 28 and 29, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 1 in. above the ground, with aluminum cap mkd. T20N R7E 1/4 S29 S28 2007. Cor. is located inside of cor. of wood fences, 6 ft. high, extending N. and E.</p> <p>S. 89°06' W., on the E. and W. center line of sec. 29.</p>
0.985	<p>Point for angle point 1, sec. 29.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T 20 N R 7 E S 29   AP1 2009</p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>
39.93	<p>The point for the center 1/4 sec. cor. of sec. 29.</p>
79.85	<p>The 1/4 sec. cor. of secs. 29 and 30, monumented with an iron post, 2 1/2 ins. diam., firmly set flush in a supporting mound of stone, 4 ft. base, 2 ft. high, with brass cap mkd. T20N R7E 1/4 S30 S29 1966.</p> <p>from which the remains of the orig. bearing trees</p> <p style="padding-left: 40px;">A rotten ponderosa pine stump, of indeterminate diam., bears N. 24° E., 90 lks. dist., with no marks visible.</p> <p style="padding-left: 40px;">A rotten ponderosa pine stump, of indeterminate diam., lays loose at approximate record bearing and dist., with no marks visible.</p> <p>and the remains of the 1966 bearing trees</p> <p style="padding-left: 40px;">A ponderosa pine, 24 ins. diam., bears S. 36 1/2° E., 34 lks. dist., with a healed blaze.</p> <p style="padding-left: 40px;">A ponderosa pine stump, 24 ins. diam., 4 1/2 ft. high, bears S. 45° W., 81 lks. dist., with scribe marks 1/4 S 30 BT visible on partially healed blaze. (Record: S. 25° W.)</p> <p>Add the marks 2009 to the brass cap.</p> <p>Set a guard post with USFS monument sign, near.</p> <hr style="width: 60%; margin-left: 0;"/>

**Subdivision of Section 29,  
T. 20 N., R. 7 E., Gila and Salt River Meridian, Arizona**

CHAINS	
0.985	<p>From the S. 1/16 sec. cor. of secs. 28 and 29, monumented with an aluminum post, 2 1/2 ins. diam., firmly set flush with grade, with aluminum cap mkd. T20N R7E S1/16 S29 S28 2007. Cor. is located in parking area for house on lot 47, Mountaineer Unit One.</p> <p>S. 89°26' W., on the E. and W. center line of the SE 1/4 of sec. 29.</p> <p>Point for angle point 2, sec. 29.</p> <p>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.</p> <div style="text-align: center;"> <p>T 20 N R 7 E</p> <p>S29   AP2</p> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Set a guard post with USFS monument sign, near.</p>
40.055	<p>The point for the center S. 1/16 sec. cor., sec. 29.</p> <hr/> <p style="text-align: center;"><b>Metes-and-Bounds Survey in Section 28, T. 20 N., R. 7 E., Gila and Salt River Meridian, Arizona</b></p> <hr/> <p>From the C-E-E-W 1/256 sec. cor., sec. 28.</p> <p>N. 0°20' W.</p>
0.455	<p>Point for angle point 1, sec. 28.</p> <p>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.</p> <div style="text-align: center;"> <p>T 20 N R 7 E</p> <p>AP1   S28</p> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Set a guard post with USFS monument sign, near.</p> <hr/>

**Metes-and-Bounds Survey in Section 28,  
T. 20 N., R. 7 E., Gila and Salt River Meridian, Arizona**

CHAINS	<p>S. 89°47' W., on line 1 to 2, sec. 28.</p>
14.90	<p>Angle point 2, sec. 28, at intersection with the N. and S. center line of the NW 1/4.</p> <hr/> <p style="text-align: center;"><b>Metes-and-Bounds Survey in Section 29, T. 20 N., R. 7 E., Gila and Salt River Meridian, Arizona</b></p> <hr/> <p>From angle point 1, sec. 29.</p> <p>S. 0°25' E., on line 1 to 2, sec. 29.</p>
20.17	<p>Angle point 2, sec. 29.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>This survey is for the location of tracts in sections 28 and 29 for a potential small tracts act sale, relieving some of the trespasses created by the location of the Mountaineer subdivisions, identified in the 2007 survey. Primary access is by Mountaineer Road, off of Interstate 17, approximately 6 miles South of Flagstaff. Subdivision streets and Forest Service roads providing the balance.</p> <p>The mean magnetic declination of 11 1/4° E. was derived from the National Geophysical Data Center's magnetic declination calculator, GEOMAG v6.0, utilizing the International Geomagnetic Reference Field model for years 2005 through 2010, for the dates of survey.</p> <hr/>





CERTIFICATE OF SURVEY

I, Geoffrey A. Graham, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of supplemental special instructions bearing date of the 28th day of September, 2009, I have subdivided of a portion of section 28, subdivided section 29, and surveyed metes-and-bounds surveys in sections 28 and 29, T. 20 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, 1973, and in specific manner described in the foregoing field notes.

1/4/2010  
\_\_\_\_\_  
(Date)

*Geoffrey A. Graham*  
\_\_\_\_\_  
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Phoenix, Arizona

The foregoing field notes of the subdivision of a portion of section 28, the subdivision of section 29, and the survey of metes-and-bounds surveys in sections 28 and 29, T. 20 N., R. 7 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.

2/2/2010  
\_\_\_\_\_  
(Date)

*Stephen K. Hansen*  
\_\_\_\_\_  
(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. 20 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)~~