

ORIGINAL

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

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF THE SOUTH AND WEST BOUNDARIES

AND A PORTION OF THE SUBDIVISIONAL LINES,

THE SUBDIVISION OF SECTION 31

AND A METES-AND-BOUNDS SURVEY

IN SECTION 31

**TOWNSHIP 15 NORTH, RANGE 6 EAST,**

OF THE GILA AND SALT RIVER MERIDIAN,

IN THE STATE OF ARIZONA.

**EXECUTED BY**

**Gordon R. Bubel, Cadastral Surveyor**

Under Special Instructions dated November 4, 2003, approved November 4, 2003, which provided for the surveys included under Group No. 917, and assignment instructions dated December 3, 2003.

**Survey commenced December 9, 2003**

**Survey completed January 21, 2004**

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TOWNSHIP 15 NORTH                      RANGE 6 EAST  
 GILA AND SALT RIVER MERIDIAN, ARIZONA

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## T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the south and west boundaries and a portion of the subdivisional lines, the subdivision of section 31 and a metes-and-bounds survey in section 31, Township 15 North, Range 6 East, Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this resurvey is as follows: C. Burton Foster surveyed the south two miles of the west boundary in 1877. James B. Girand and Park W. Latimer resurveyed the south two miles of the west boundary in 1902. W.H. Thorn surveyed the south boundary, as part of the Black Mesa Forest Reserve and established a closing township corner for Townships 14 and 15 North, Range 6 East only and retraced a portion of the west boundary in 1903. John J. Fisher and John P. Hesse, completed the survey of the subdivisional lines, establishing closing corners at the intersections with the south boundary, in 1904. William B. Kimmel resurveyed the south boundary, and changed the original 1903 corners to angle points and set closing corners at the intersection of the south boundary with the subdivisional lines of Township 14 North, Range 6 East in 1923. Boyd S. Owens remonumented certain corners in 1964.

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 November 4, 2003, for Group No. 917, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 5700 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 second order U.S. Coast & Geodetic Survey triangulation station "MCGUIREVILLE 1959", as published by the National Geodetic Survey, NAD 83 (1992). The geographic position of the angle point (the original 1/4 section corner of sections 5 and 32, Townships 14 and 15 North, Range 6 East) on the south boundary of section 32 is as follows:

Latitude: 34°38'24.96" N.                      Longitude: 111°44'19.91" W.

The mean magnetic declination is 12° E.

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Dependent Resurvey of a Portion of the South Boundary,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">Restoring the resurvey executed by William B. Kimmel, in 1923</p> <hr/> <p>Beginning at the angle point on the S. bdy. of sec. 32, identical with the orig. 1/4 sec. cor. of secs. 5 and 32, Tps. 14 and 15 N., R. 6 E., monumented with a limestone, 22 x 14 x 12 ins. above ground, in a mound of stone, 4 ft. base, 1 ft. high, mkd. AP on the S. face.</p> <p>Cor. is located 6 lks. N. of a 5 strand barbed wire fence, bears irregularly E. and W.</p> <p>S. 89°59' W., on the S. bdy. of sec. 32.</p> <p>Over rolling land, through scattered junipers, and medium undergrowth.</p>
1.62	<p>The 1/4 sec. cor. of sec. 5 only, T. 14 N., R. 6 E., monumented with an iron post, 1 in. diam., firmly set, projecting 27 ins. above ground, in a mound of stone, 4 ft. base, 1 1/2 ft. high, with brass cap mkd. 1/4 S5 1923.</p> <p>from which the remaining 1923 bearing tree</p> <p style="padding-left: 40px;">A juniper, 14 ins. diam. at base, bears S. 5 1/4° W., 1.24 chs. dist., with illegible scribe marks visible, on a 6 in. diam. limb.</p> <p>Add the marks T15N R6E to the north half of the brass cap and the marks T14N R6E 2003, to the south half.</p> <p>Cor. is located 16 lks. N. of a 5 strand barbed wire fence, bears irregularly E. and W.</p>
28.98	<hr/> <p>S. 89°59' W., beginning new measurement, on the S. bdy. of sec. 32.</p> <p>Over rolling land, through medium undergrowth and scattered juniper timber.</p> <p>The closing cor. of secs. 31 and 32, Tp. 15 N., R. 6 E., hereinafter described.</p> <hr/> <p>S. 89°59' W., on the S. bdy. of sec. 31.</p> <p>Over rolling land, through scattered juniper timber.</p>

**Dependent Resurvey of a Portion of the South Boundary,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

<p>CHAINS</p> <p>9.42</p>	<p>The angle point on the S. bdy. of sec. 31, identical with the orig. cor. of secs. 5, 6, 31 and 32, Tps. 14 and 15 N., R. 6 E., identical with Black Mesa Forest Reserve, Boundary Post No. 86, monumented with an iron post, 3 1/2 ins. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 4 ft. base, 1 1/2 ft. high, with brass cap mkd. U.S. Forest Reserve AP Boundary Post No. 86 1903.</p> <p>from which the 1903 bearing trees</p> <p style="padding-left: 40px;">A sawed juniper stump, 17 ins. diam., 1 ft. high, bears S. 36°45' E., 2.07 chs. dist., mkd. BT on an open blaze.</p> <p style="padding-left: 40px;">A sawed juniper stump, 15 ins. diam., 5 ins. high, bears S. 86°45' W., 4.89 chs. dist., no marks visible. (Record: S. 86°55' W., 4.82 chs. dist.)</p> <p>Add the marks T15N R6E to the north half of the brass cap and the marks T14N R6E 2003 to the south half.</p> <p>Cor. is located 9 lks. S. of a 5 strand barbed wire fence, bears irregularly E. and W.</p> <hr style="width: 20%; margin: 20px auto;"/> <p>N. 89°59' W., beginning new measurement, on the S. bdy. of sec. 31.</p> <p>Over rolling land, through scattered juniper timber and medium undergrowth.</p>
<p>1.62</p>	<p>The closing cor. of secs. 5 and 6, Tp. 14 N., R. 6 E., monumented with an iron post, 2 ins. diam., firmly set, projecting 23 ins. above ground, in a mound of stone, 2 ft. base, 1 ft. high, with brass cap mkd. T15N R6E S31 CC S6 S5 T14N R6E 1923.</p> <p>from which the 1923 bearing trees</p> <p style="padding-left: 40px;">A juniper stump, 8 ins. diam., 10 ins. high, bears S. 22 3/4° E., 2.87 chs. dist., no marks visible.</p> <p style="padding-left: 40px;">A juniper stump, 16 ins. diam., 30 ins. high, bears S. 14° W., 2.13 chs. dist., no marks visible.</p> <p>and the orig. 1903 SW bearing tree, referenced in the 1923 record.</p> <p style="padding-left: 40px;">A sawed juniper stump, 15 ins. diam., 5 ins. high, bears S. 85° W., 3.28 chs. dist., no marks visible. (Record: 3.10 chs. dist.)</p> <p>Add the marks 2003 to the brass cap.</p>

Dependent Resurvey of a Portion of the South Boundary,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Cor. is located 4.5 lks. S. of a 5 strand barbed wire fence, bears irregularly E. and W.</p> <hr/>
	<p>N. 89°59' W., beginning new measurement, on the S. bdy. of sec. 31.</p>
	<p>Over rolling land, through medium undergrowth and scattered juniper timber.</p>
8.99	<p>Point for the E. 1/16 sec. cor. of sec. 31 only, T. 15 N., R. 6 E.</p> <p>Not monumented.</p>
29.02	<p>Point for the 1/4 sec. cor. of sec. 31 only, T. 15 N., R. 6 E., hereinafter described.</p>
38.42	<p>The angle point on the S. bdy. of sec. 31, identical with the orig. 1/4 sec. cor. of secs. 6 and 31, Tps. 14 and 15 N., R. 6 E., monumented with a limestone, 36 x 20 x 20 ins. above ground, firmly set, mkd. AP on the N. face and X on the top.</p>
	<p>from which the 1903 bearing trees</p> <p style="padding-left: 40px;">A juniper, 24 ins. diam., bears S. 1°50' E., 1.17 chs. dist., mkd. 1/4 S6 on a partially healed blaze.</p> <p style="padding-left: 40px;">A juniper, 16 ins. diam., bears N. 72° W., 1.67 chs. dist., with healed over blaze.</p> <hr/>
	<p>S. 89°59' W., beginning new measurement, on the S. bdy. of sec. 31.</p> <p>Over rolling land, through medium undergrowth and scattered juniper timber.</p>
1.61	<p>The 1/4 sec. cor. of sec. 6 only, T. 14 N., R. 6 E., monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. 1/4 S6 1923.</p> <p>from which the 1923 bearing trees</p> <p style="padding-left: 40px;">A juniper, 18 ins. diam., bears S. 47° E., 1.11 chs. dist., mkd. 1/4 S6 BT on an open blaze.</p> <p style="padding-left: 40px;">A forked juniper, 36 ins. diam. at base, bears S. 14° W., 52 lks. dist., mkd. 1/4 S6 BT on a 7 in. diam. limb.</p>
	<p>Add the marks T15N R6E to the north half of the brass cap and the marks T14N R6E 2003 to the south half of the brass cap.</p> <hr/>

**Dependent Resurvey of a Portion of the South Boundary,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	<p>S. 89°59' W., beginning new measurement, on the S. bdy. of sec. 31.</p> <p>Over rolling land, through scattered juniper timber.</p>
26.48	<p>Point for the orig. closing cor. of Tps. 14 and 15 N., R. 6 E., determined from the remains of the orig. 1903 bearing trees</p> <p style="padding-left: 40px;">A rotting juniper stump, 17 ins. diam., 12 ins. high, bears N. 38° E., 2.42 chs. dist., no marks visible. (Record: N. 37°05' E.)</p> <p style="padding-left: 40px;">A juniper, 24 ins. diam., bears S. 40 1/2° E., 2.64 chs. dist., mkd. 4N R6E S6CC BT, on a partially healed blaze. (Record: S. 39°52' E.)</p> <p>Found the orig. closing cor., an iron post, 3 1/2 ins. diam., 48 ins. long, lying loose nearby. Iron post mkd. U.S. Forest Reserve Boundary Post No. 87 on the top and T15N S31 CC T14N S6 1903 on the beveled edges.</p> <p>Remove the iron post from the area, impracticable to bury.</p>
26.515	<p>Intersect the W. bdy. of the Tp.</p> <p>True point for the closing cor. of Tps. 14 and 15 N., R. 6 E., falls on the cut bank of a gully, where it is impracticable to establish a permanent monument.</p> <p>From this true point, the point selected for the witness cor. to the closing cor. of Tps. 14 and 15 N., R. 6 E., bears S. 55°07' E., 94 lks. dist.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <pre>           WC             T 14 N   T 15 N S 1     R 6 E         S 31        ----- CC R 5 E   S 6         T 14 N           </pre> </div> <p>2004</p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>From this true cor. point, the 1/4 sec. cor. of sec. 1 only, Tp. 14 N., R. 5 E. bears S. 6°12' W., 33.02 chs. dist., monumented with an iron post, 1 in. diam., firmly set, projecting 13 ins. above ground, with brass cap mkd. 1/4 S1 1923.</p>

**Dependent Resurvey of a Portion of the South Boundary,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS

Add the marks T14N R5E R6E 2003 to the brass cap.

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**Dependent Resurvey of a Portion of the West Boundary,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

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Restoring the retracement executed by  
W.H. Thorn, in 1903

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From the true point for the closing cor. of Tps. 14 and 15 N.,  
R. 6 E., hereinbefore described.

N. 6°12' E., on the W. bdy. of sec. 31.

In and along a 4 strand barbed wire fence.

9.13

The cor. of secs. 1 and 36 only, Tps. 14 and 15 N., R. 5 E.,  
monumented with a limestone, 24 x 9 x 9 ins., firmly set,  
projecting 11 ins. above ground, mkd. with 6 grooves on each  
face, with an iron pipe, 1 in. diam., 27 ins. long, set  
alongside.

At the corner point

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

T 15 N		T 15 N
R 5 E		R 6 E
S 36		
S 1		S 31
T 14 N		

2004

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

Deposit the iron pipe inside the stainless steel pipe and bury  
the marked stone alongside.

Cor. is located 3 lks. E. of a 4 strand barbed wire fence, bears  
N. and S.



**Dependent Resurvey of a Portion of the West Boundary,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>From this cor. point, 2nd order, U.S. Coast &amp; Geodetic Survey triangulation station "MCGUIREVILLE", with published latitude of 34°38'31.02" N. and longitude of 111°48'56.09" W., NAD 83(1992), bears N. 89°56' W., (forward bearing), 242.52 chs. dist., monumented with a 3 1/2 ins. diam., bronze disk, set in a 12 x 12 x 3 ins. high concrete form, with top of disk mkd. U.S. COAST &amp; GEODETIC SURVEY MCGUIREVILLE 1959 and a triangle.</p> <hr/> <p>N. 3°25' W., beginning new measurement, bet. secs. 31 and 36, on the W. bdy. of the Tp.</p> <p>Over rolling land, through medium juniper timber.</p>
1.18	A rebar, 1/2 in. diam., firmly set, projecting 5 ins. above ground, bears West, 1 lk. dist., origin unknown.
18.10	South bank of Beaver Creek at levee, bears S. 80° E. and N. 80° W.
18.90	North bank of active channel of Beaver Creek, bears S. 80° E. and N. 80° W.
20.44	<p>Point for the S. 1/16 sec. cor. of sec. 36 only, T. 15 N., R. 5 E.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 12 ins. in the ground, to bedrock, in a supporting mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 15 N R 5 E R 6 E S 1/16   S 36   2004</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>From this cor. point, a fence cor. bears S. 60° W., 37 lks. dist., with 4 strand barbed wire fences, bearing N., S. and W.</p>
20.50	North flood bank of Beaver Creek, bears S. 80° E. and N. 80° W.
20.95	<p>Point for the S. 1/16 sec. cor. of sec. 31 only, T. 15 N., R. 6 E.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 16 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p>

**Dependent Resurvey of a Portion of the West Boundary,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	T 15 N R 5 E R 6 E   S 1/16   S 31   2004
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
35.81	Black Mesa Forest Reserve, Boundary Post No. 88, monumented with an iron post, 3 1/2 ins. diam., firmly set, projecting 12 ins. above ground. Iron post mkd. U.S. FOREST RESERVE BOUNDARY POST NO. 88, on the top and RESERVE 1903 on the beveled edges.  from which the 1903 bearing trees  A cottonwood, 36 ins. diam., bears N. 88°30' E., 1.27 chs. dist., no marks visible.  A cottonwood stump, 60 ins. diam., 24 ins. high, bears S. 0°50' W., 1.48 chs. dist., no marks visible.  Add the marks 2003 to the brass cap.  Cor. is located on the N. edge of parking lot of picnic area of Montezuma Castle National Monument, Montezuma Well Unit.  <hr/> N. 3°25' W., beginning new measurement.
1.09	Center of pavement, Beaver Creek road, asphalt surface, 20 ft. wide, bears N. 75° E., curving northerly and S. 75° W., curving southerly.
5.07	The 1/4 sec. cor. of secs. 31 and 36, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 14 ins. above ground, in a mound of stone, 3 ft. base, 1 ft. high, with brass cap mkd. T15N R5E R6E 1/4 S36 S31 1964.  Add the marks 2003 to the brass cap.  Cor. is located 1.5 lks. NW of a fence cor., with 4 strand barbed wire fences bearing N. and W.  <hr/> N. 0°14' W., beginning new measurement.  In and along, a 4 strand barbed wire fence.

**Dependent Resurvey of a Portion of the West Boundary,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
3.41	From this point, a rebar, 1/4 in. diam., firmly set, projecting 8 ins. above ground, bears East, 2.5 lks. dist., identical with the cor. between lots No. 712 and 713 of Lake Montezuma Estates Unit Two, a platted subdivision, on file at the Yavapai County Recorders Office.
8.21	From this point, a rebar, 1/4 in. diam., firmly set, projecting 5 ins. above ground, bears West, 0.6 lk. dist., identical with the cor. between lots No. 716 and 717 of Lake Montezuma Estates Unit Two, a platted subdivision, on file at the Yavapai County Recorders Office.
9.34	From this point, a rebar, 1/4 in. diam., firmly set, projecting 12 ins. above ground, bears West, 1.0 lk. dist., identical with the cor. between lots No. 717 and 718 of Lake Montezuma Estates Unit Two, a platted subdivision, on file at the Yavapai County Recorders Office.
10.48	From this point, a rebar, 1/4 in. diam., firmly set, projecting 6 ins. above ground, bears West, 0.6 lk. dist., identical with the cor. between lots No. 718 and 719 of Lake Montezuma Estates Unit Two, a platted subdivision, on file at the Yavapai County Recorders Office.
11.62	From this point, a rebar, 1/4 in. diam., firmly set, projecting 6 ins. above ground, bears West, 0.7 lk. dist., with attached metal wafer mkd. LS 31017, identical with the cor. between lots No. 719 and 720 of Lake Montezuma Estates Unit Two, a platted subdivision, on file at the Yavapai County Recorders Office.
12.75	From this point, a rebar, 1/4 in. diam., firmly set, projecting 6 ins. above ground, bears West, 1.5 lks. dist., with attached metal wafer mkd. LS 31017, identical with the cor. between lots No. 720 and 721 of Lake Montezuma Estates Unit Two, a platted subdivision, on file at the Yavapai County Recorders Office.
13.89	From this point, a rebar, 1/4 in. diam., firmly set, projecting 8 ins. above ground, bears West, 1.1 lks. dist., identical with the cor. between lots No. 721 and 722 of Lake Montezuma Estates Unit Two, a platted subdivision, on file at the Yavapai County Recorders Office.
15.06	A rebar, 5/8 in. diam., firmly set, projecting 2 ins. above ground, identical with the NE cor. of lot No. 722 of Lake Montezuma Estates Unit Two, a platted subdivision on file at the Yavapai County Recorders Office.
16.94	A rebar, 1/2 in. diam., firmly set, projecting 5 ins. above ground, origin unknown.

**Dependent Resurvey of a Portion of the West Boundary,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

<p>CHAINS 20.08</p>	<p>The N. 1/16 sec. cor. of secs. 31 and 36, established by Willard L. Bradley, deceased Arizona Registered Civil Engineer No. 887, in 1946, monumented with an iron pipe, 1 in. diam., firmly set, projecting 5 ins. above ground. This is accepted as a careful and faithful determination of the position of the cor.</p> <p>At the corner point</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> <p style="text-align: center;">T 15 N R 5 E R 6 E N 1/16 S 36   S 31   2004</p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Deposit the iron pipe, 15 ins. long, inside the stainless steel post.</p> <p>Cor. is located at the intersection of 4 strand barbed wire fences, bearing N., E. and S.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>N. 0°15' W., beginning new measurement.</p> <p>In and along, a 4 strand barbed wire fence.</p>
<p>20.05</p>	<p>The cor. of secs. 25, 30, 31 and 36, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 22 ins. above ground, in a mound of stone, 5 ft. base, to top, with brass cap mkd. T15N R5E R6E S25 S30 S36 S31 1964.</p> <p>from which a new bearing object</p> <p style="padding-left: 40px;">A wooden power line pole, 9 ins. diam., bears S. 41° E., 12 lks. dist.</p> <p>Add the marks 2003 to the brass cap.</p> <p>Cor. is located in a 4 strand barbed wire fence, bears N. and S.</p> <hr style="width: 60%; margin: 10px auto;"/>

**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Restoring the survey executed by John J. Fisher and John P. Hesse, in 1904</p> <hr/> <p>From the cor. of secs. 29, 30, 31 and 32, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 7 ins. above ground, with a mound of stone, 3 ft. base, 2 ft. high to the W., with brass cap mkd. T15N R6E S30 S29 S31 S32 1964.</p> <p>Add the marks 2003 to the brass cap.</p> <p>A 1 in. diam., iron pipe, firmly set, projecting 9 ins. above ground is set alongside the iron post.</p> <p>Cor. is located at the intersection of 4 strand barbed wire fences, bearing E. and S.</p> <p>S. 0°02' E., bet. secs. 31 and 32.</p> <p>In and along a 4 strand, barbed wire fence, over rolling land, through medium undergrowth and scattered juniper timber.</p>
18.20	Center of Red Tank Draw, 44 ft. wide, 6 ft. deep, drains S. 20° W.
20.01	<p>The N. 1/16 sec. cor. of secs. 31 and 32, established by Wallace R. Ott, Arizona Registered Land Surveyor No. 9431, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 5 ins. above ground, with brass cap mkd. N 1/16 S31 S32 LS9431 1981. This is accepted as a careful and faithful determination of the position of the cor.</p> <p>from which the bearing trees marked by Ott</p> <p>A sycamore, 11 ins. diam., bears N. 9° E., 45 lks. dist., with a healed blaze.</p> <p>A juniper, 9 ins. diam., bears S. 30° W., 30.5 lks. dist., with scribe marks BT visible on partially open blaze.</p> <p>An ash, 17 ins. diam., bears N. 79° W., 86 lks. dist., with scribe marks N 1/16 S31 BT visible on partially open blaze.</p> <p>Cor. is located on left rocky bank of Red Tank Draw.</p> <hr/> <p>S. 0°02' E., beginning new measurement.</p>
10.35	Fence cor., with 4 strand barbed wire fences bearing N. and S. 70° E.

**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
17.49	Barbed wire fence, 5 strands, bears S. 55° E. and N. 55° W., thence across pasture and bottomlands.
20.01	<p>The 1/4 sec. cor. of secs. 31 and 32, determined from the orig. bearing trees by Wallace R. Ott, Arizona Registered Land Surveyor No. 9431, in 1981, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 3 ins. above ground, with brass cap mkd. T15N R6E 1/4 S31 S32 LS9431 4476 1972 1981.</p> <p>from which the orig. bearing trees</p> <p style="padding-left: 40px;">A rotting ash stump, 36 ins. diam., 72 ins. high, bears S. 21° E., 71 lks. dist., mkd. S32BT on a partially healed blaze. (Tree was remarked by Ott.)</p> <p style="padding-left: 40px;">A sycamore, 48 ins. diam., bears N. 71 1/2° W., 11 lks. dist., with no marks visible.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 0°05' E., beginning new measurement.</p>
3.30	Center of Beaver Creek, 25 ft. wide, 2 ft. deep, drains S. 80° W.
19.975	<p>The S. 1/16 sec. cor. of secs. 31 and 32, established by Wallace R. Ott, Arizona Registered Land Surveyor No. 9431, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 16 ins. above ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. S1/16 S31 S32 LS9431 81 1971. This is accepted as a careful and faithful determination of the position of the cor.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 0°04' E., beginning new measurement.</p>
29.79	<p>The closing cor. of secs. 31 and 32, at intersection with the S. bdy. of the Tp., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 5 ins. above ground, with brass cap mkd. CC T15N R6E S31 S32 T14N 1964, with a mound of stone, 2 1/2 ft. base, 1 ft. high, N. of the cor.</p> <p>from which the orig. bearing trees</p> <p style="padding-left: 40px;">A juniper stump, 24 ins. diam., 12 ins. high, bears N. 8 3/4° E., 1.83 chs. dist., no marks visible. (Record: 1.85 chs. dist.)</p> <p style="padding-left: 40px;">A forked juniper, 24 ins. diam., at base, bears N. 12° W., 3.11 chs. dist., mkd. S31BT on a 9 in. diam. limb.</p> <p>Add the marks 2003 to the brass cap.</p> <p>Cor. is located 4 lks. S. of a 4 strand barbed wire fence, bears E. and W.</p>

**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<hr/> <p>Point for the 1/4 sec. cor. of sec. 31 only, on the S. bdy. of the Tp., at proportionate dist., based on the 1904 plat.</p>
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, encircled with a collar of stone, with brass cap mkd.</p>
	<p align="center">T 15 N R 6 E 1/4 S 31</p> <hr/>
	<p align="center">T 14 N R 6 E</p>
	<p align="center">2003</p>
	<p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>
	<p>From this cor. point, the angle point on the S. bdy. of sec. 31, identical with the orig. 1/4 sec. cor. of secs. 31 and 6, Tps. 14 and 15 N., R. 6 E., bears N. 89°59' W., 9.40 chs. dist., hereinbefore described.</p> <hr/>
	<p>From the cor. of secs. 29, 30, 31 and 32.</p>
	<p>N. 89°50' W., bet. secs. 30 and 31.</p>
	<p>Over rolling terrain, through medium undergrowth and scattered junipers.</p>
15.75	<p>Beaver Creek road, graded, 20 ft. wide, bears N. 80° E., curving northerly and S. 80° W., curving southerly.</p>
20.045	<p>Point for the E. 1/16 sec. cor. of secs. 30 and 31, occupied with a mound of stone, 3 ft. base, 2 ft. high, origin unknown.</p>
	<p>Not monumented.</p>
40.09	<p>The 1/4 sec. cor. of secs. 30 and 31, monumented with a brass tablet, 3 1/2 ins. diam., set flush with exposed limestone bedrock, with top mkd. T15N R6E 1/4 S30 S31 1964, with a mound of stone, 3 ft. base, 2 ft. high, N. of the cor.</p>
	<p>from which the orig. bearing trees</p>
	<p>A juniper stump, 16 ins. diam., 36 ins. high, bears N. 67 3/4° E., 2.09 chs. dist., no marks visible. (Record: N. 69 3/4° E., 2.07 chs. dist.)</p>
	<p>A forked juniper, 24 ins. diam., at base, bears S. 14 1/2° W., 42 lks. dist., mkd. 1/4 S31 BT, on a 8 in. diam. limb.</p>

**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	<p>Add the marks 2003 to the brass cap.</p> <hr style="width: 50%; margin: 10px auto;"/> <p>N. 89°51' W., beginning new measurement.</p>
39.00	<p>The cor. of secs. 25, 30, 31 and 36, on the W. bdy. of the Tp., hereinbefore described.</p> <hr style="width: 80%; margin: 10px auto;"/> <p style="text-align: center;"><b>Subdivision of Section 31, T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona</b></p> <hr style="width: 80%; margin: 10px auto;"/> <p>From the 1/4 sec. cor. of sec. 31 only, on the S. bdy. of the Tp.</p> <p>N. 0°05' W., on the N. and S. center line of sec. 31.</p> <p>Over rolling terrain, through medium undergrowth and scattered juniper timber.</p>
28.60	<p>Center of Beaver Creek, 20 ft. wide, 2 ft. deep, course S. 55° W.</p>
29.90	<p>Point for the center S. 1/16 sec. cor. of sec. 31, identical with Angle Point 7, of the metes-and-bounds survey in sec. 31.</p> <p>Set an aluminum drive rod, 20 ins. long, 3/4 in. diam., 10 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T 15 N R 6 E</p> <p style="margin: 0 10px;">C</p> <p>S 1/16   S 31</p> <p style="margin: 0 10px;">C</p> <p>2004</p> </div> <p>Cor. is located in the flood plain of Beaver Creek.</p> <p>From this cor. point, a metal "T" post, projecting 8 ins. above ground, bears N. 2°16' W., 58 lks. dist.</p>
36.77	<p>Point selected for a witness point.</p> <p>Cemented a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, in a drill hole, flush with the surface of limestone slab, with top mkd.</p>



**Subdivision of Section 31,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	WP T 15 N R 6 E C MC   NM S   31 C
	2004
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Cor. is located on cliff bank of Beaver Creek, about 50 ft. above flood plain, edge bears E. and W.
49.35	3 wire overhead power line.
49.83	The center 1/4 sec. cor. of sec. 31, established by Willard L. Bradley, deceased Arizona Registered Civil Engineer No. 887, in 1946, and remonumented by the National Park Service, with a 2 in. diam., brass tablet, set in a 4 in. diam. concrete cylinder, projecting 1 in. above ground, with top mkd. USDI C 31 NPS.
	This is accepted as a careful and faithful determination of the position of the cor., not remonumented.
	From this cor. point, the most northerly cor. of the Montezuma Castle National Monument (Montezuma Well Unit) information building, 19 X 10.5 ft., bears S. 21°39' E., 2.00 chs. dist., long side bears S. 50° E.
	_____
	N. 0°04' W., beginning new measurement.
20.035	The center N. 1/16 sec. cor. of sec. 31, established by Willard L. Bradley, deceased Arizona Registered Civil Engineer No. 887, in 1946, and remonumented by the National Park Service, with a 2 in. diam., brass tablet, set in a 12 in. diam. concrete cylinder, projecting 1 in. above ground, with top mkd. USDI 1/16 NPS 3582.806.
	This is accepted as a careful and faithful determination of the position of the cor., not remonumented.
	_____
	N. 0°06' W., beginning new measurement.
0.23	Barbed wire fence, 4 strand, bears E. and W.
2.25	Center of Beaver Creek road, graded, 20 ft. wide, bears S. 80° E. and N. 80° W.
20.035	The 1/4 sec. cor. of secs. 30 and 31, hereinbefore described.
	_____

**Subdivision of Section 31,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>From the 1/4 sec. cor. of secs. 31 and 32, hereinbefore described.</p> <p>N. 89°54' W., on the E. and W. center line of sec. 31.</p> <p>Across riparian area.</p>
20.03	<p>Point for the center E. 1/16 sec. cor. of sec. 31.</p> <p>Set an aluminum drive rod, 30 ins. long, 3/4 in. diam., 22 ins. in the ground, encircled with a collar of stone with aluminum cap mkd.</p> <div style="text-align: center;"> <p>T 15 N R 6 E E 1/16 C———C S 31 2004</p> </div> <p>Cor. is located in flood plain of Beaver Creek.</p> <p>From this cor. point, a steel fence post, bears N. 22° W., 22 lks. dist.</p>
25.00	<p>Top of cliff, about 100 ft. above Beaver Creek flood plain.</p>
26.35	<p>A 2 in. diam., brass cap, cemented in a rock outcropping, with top mkd. USDI MC 16 3616.88 1959 NPS.</p>
26.70	<p>Easterly edge of Montezuma Well, thence across Montezuma Well.</p>
33.70	<p>Westerly edge of Montezuma Well.</p>
40.06	<p>The center 1/4 sec. cor. of sec. 31.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>N. 89°56' W., beginning new measurement.</p>
25.75	<p>Road to Montezuma Well, asphalt surface, 20 ft. wide, in curve, tangents bear N. and S. 80° E.</p>
29.03	<p>Montezuma Castle National Monument, (Montezuma Well Unit), service road, asphalt surface, 15 ft. wide, bears N. 60° E. and S. 60° W.</p>
30.58	<p>Beaver Creek road, asphalt surface, 20 ft. wide, bears N. 60° E., curving northerly and S. 60° W.</p>
38.89	<p>The 1/4 sec. cor. of secs. 31 and 36, on the W. bdy. of the Tp., hereinbefore described.</p> <hr style="width: 30%; margin: 10px auto;"/>

**Subdivision of Section 31,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	NE 1/4
	<hr style="width: 30%; margin: auto;"/> <p>From the center E. 1/16 sec. cor. of sec. 31.</p> <p>N. 0°03' W., on the N. and S. center line of the NE 1/4 of sec. 31.</p> <p>Ascending out of flood plain of Beaver Creek.</p>
6.73	<p>Point selected for a witness point.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 15 ins. in the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>WP</p> <p>T 15 N R 6 E</p> <p>MCNM   S 31</p> <p style="margin-left: 10px;"> </p> <p>2004</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Cor. is located on top of rocky bluff, about 100 ft. above Beaver Creek flood plain.</p> <p>From this cor. point, the terminus of a 4 strand barbed wire fence, extending N., bears S. 42°02' W., 67.5 lks. dist.</p>
9.90	<p>4 strand barbed wire fence, bears E. and W.</p> <p>From this point, a 1 in. diam., steel pin, projecting 9 ins. above ground, bears S. 89°44' W., 3 lks. dist., origin unknown.</p> <p>From this same point, a well embedded mound of stone, with a squared wood post, 2 x 2 x 42 ins. long, lying loose nearby, bears N. 84°46' W., 30 lks. dist., origin unknown.</p>
20.025	<p>Point for the NE 1/16 sec. cor. of sec. 31, at intersection with the E. and W. center line of the NE 1/4 of sec. 31.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 15 N R 6 E</p> <p>NE 1/16 S 31</p> <p>2004</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>

**Subdivision of Section 31,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	Cor. is located in a 4 strand barbed wire fence, bears S. and N., for 4.5 lks. dist., to intersection with 4 strand barbed wire fence bearing W.
37.40	Beaver Creek Road, graded, 20 ft. wide, bears N. 50° E. and S. 50° W.
40.05	The E. 1/16 sec. cor. of secs. 30 and 31, hereinbefore described.
	<hr/> From the N. 1/16 sec. cor. of secs. 31 and 32, hereinbefore described.  N. 89°52' W., on the E. and W. center line of sec. 31.  Across Red Tank Draw, thence over rolling land.
14.85	Road to Soda Springs Ranch, graded, 15 ft. wide, bears SE and NW.
20.04	The NE 1/16 sec. cor. of sec. 31.
40.07	The center N. 1/16 sec. cor. of sec.31.
	<hr/> <b>SE 1/4</b> <hr/>
	From the point for the E. 1/16 sec. cor. of sec. 31 only, on the S. bdy. of the Tp., hereinbefore described.  N. 0°05' W., on the N. and S. center line of the SE 1/4 of sec. 31.  Descending, over rolling land.
29.84	Point for the SE 1/16 sec. cor. of sec. 31, at intersection with the E. and W. center line of the SE 1/4 of sec. 31.
	Not monumented.
48.34	Point for Angle Point 1, of the metes-and-bounds survey in sec. 31.
	Cor. point falls in the active channel of Beaver Creek, where it is not viable to establish a permanent monument.
49.795	The center E. 1/16 sec. cor. of sec. 31.
	<hr/> From the S. 1/16 sec. cor. of secs. 31 and 32, hereinbefore described.

**Subdivision of Section 31,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	N. 89°50' W., on the E. and W. center line of the SE 1/4 of sec. 31.  Over rolling land, through scattered juniper timber.
20.035	Point for the SE 1/16 sec. cor. of sec. 31.
40.07	The center S. 1/16 sec. cor. of sec. 31, identical with Angle Point 7, of the metes-and-bounds survey in sec. 31.
<hr/> <b>SW 1/4</b> <hr/>	
	From the center S. 1/16 sec. cor. of sec. 31, identical with Angle Point 7, of the metes-and-bounds survey in sec. 31.  N. 89°52' W., on the E. and W. center line of the SW 1/4 of sec. 31.  In flood plain of Beaver Creek.
6.50	Center of Beaver Creek, 1 ch. wide, 1 ft. deep, drains S. 40° W., curving westerly.
15.21	Point selected for a witness point.  Set an aluminum drive rod, 22 ins. long, 3/4 in. diam., 12 ins. in the ground, in a mound of stone, 2 1/2 ft. base, to top, with aluminum cap mkd.
WP T 15 N R 6 E MCNM <hr/> S 31  2004	
	Cor. is located on the left cut bank of Beaver Creek, drains W.
32.80	Center of Beaver Creek, 1 ch. wide, 1.5 ft. deep, drains WSW.
34.86	Point selected for a witness point.  Set an aluminum drive rod, 24 ins. long, 3/4 in. diam., 8 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, 1 ft. high, with aluminum cap mkd.

**Subdivision of Section 31,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	WP T 15 N R 6 E MCNM <hr/> S 31  2004
37.73	The S. 1/16 sec. cor. of sec. 31 only, on the W. bdy. of the Tp., hereinbefore described. <hr/> <p align="center"><b>NW 1/4</b></p> <hr/> From the center N. 1/16 sec. cor. of sec. 31. N. 89°52' W., on the E. and W. center line of the NW 1/4 of sec. 31. Over gently rolling land.
17.50	Center of Beaver Creek Road, graded, 20 ft. wide, bears N. 65° E., curving southerly and S. 65° W.
38.95	The N. 1/16 sec. cor. of secs. 31 and 36, on the W. bdy. of the Tp., hereinbefore described. <hr/> <p align="center"><b>Metes-and-Bounds Survey in Section 31, T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona</b></p> <hr/> Note: The following metes-and-bounds survey is based on a portion of the warranty deed, dated December 30, 1946; which conveyed certain lands to the United States. On file and recorded at the Yavapai County Arizona Recorders Office. From the point for Angle Point 1, in the active channel of Beaver Creek, hereinbefore described. S. 65°31' W., on line 1-2, in and along the active channel of Beaver Creek.
1.758	True point for Angle Point 2; falls 65 lks. S. of active channel of Beaver Creek, where it is impracticable to establish a permanent monument. <hr/> S. 49°02' W., on line 2-3, in and along the active channel of Beaver Creek.

**Metes-and-Bounds Survey in Section 31,  
T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS	
4.412	<p>True point for Angle Point 3; falls in the active channel of Beaver Creek, where it is not viable to establish a permanent monument.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 33°43' W., on line 3-4, in and along the active channel of Beaver Creek.</p>
6.439	<p>True point for Angle Point 4; falls in the active channel of Beaver Creek, where it is not viable to establish a permanent monument.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 33°06' W., on line 4-5, in and along the active channel of Beaver Creek.</p>
5.303	<p>True point for Angle Point 5; falls in the active channel of Beaver Creek, where it is not viable to establish a permanent monument.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 49°38' W., on line 5-6, in and along the active channel of Beaver Creek.</p>
6.434	<p>True point for Angle Point 6; falls in the active channel of Beaver Creek, where it is not viable to establish a permanent monument.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 76°58' W., on line 6-7, departing from active channel of Beaver Creek, along gravel bar.</p>
3.798	<p>Point for Angle Point 7, identical with the center S. 1/16 sec. cor. of sec. 31, hereinbefore described.</p> <hr style="width: 80%; margin: 10px auto;"/> <p style="text-align: center;"><b>GENERAL DESCRIPTION</b></p> <hr style="width: 80%; margin: 10px auto;"/> <p>The area encompassed by this survey and resurvey is located adjacent to the communities of Rimrock and Lake Montezuma Arizona. Beaver Creek a perennial stream enters sec. 31 near the east 1/4 section cor. and exits near the S. 1/16 section corner on the west boundary of sec. 31. Montezuma Well a limestone sink is located in the SW 1/4 of the NE 1/4 and the NW 1/4 of the SE 1/4 of sec. 31. Sycamores, cottonwoods and ashes grow along the creek bank. Scattered junipers are found on the remaining portion.</p> <p>Two abandoned mines are located in the N. 1/2 of the NW 1/4 of sec. 31. The National Park Service has a visitors information center for Montezuma Well near the center 1/4 sec. cor. of sec. 31. Access is by way of Beaver Creek road.</p>

**T. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona**

CHAINS

The mean magnetic declination of 12° E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2000 for the dates of survey.

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CERTIFICATE OF SURVEY

I, Gordon R. Bubel, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 4th day of November, 2003, I have dependently resurveyed a portion of the south and west boundaries, a portion of the subdivisional lines, subdivided section 31 and executed a metes-and-bounds-survey in sec. 31, T. 15 N., R. 6 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.

April 11, 2005  
(Date)

Gordon R. Bubel  
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the south and west boundaries and a portion of the subdivisional lines, the subdivision of section 31 and a metes-and-bounds-survey in sec. 31, T. 15 N., R. 6 E., Gila and Salt River Meridian, in the State of Arizona, executed by Gordon R. Bubel, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

August 8, 2005  
(Date)

Stephen K. Hansen  
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. 15 N., R. 6 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~\_\_\_\_\_  
(Date)~~

~~\_\_\_\_\_  
Acting(Chief Cadastral Surveyor of Arizona)~~