

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF
A PORTION OF THE EAST BOUNDARY
AND
THE SUBDIVISION OF
SECTION 36
TOWNSHIP 4 NORTH, RANGE 21 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Gordon R. Bubel, Cadastral Surveyor

Under Special Instructions dated January 10, 2008, approved January 10, 2008, which provided for the surveys included under Group No. 1037, and assignment instructions dated January 10, 2008.

Survey commenced February 25, 2008

Survey completed March 27, 2008

INDEX DIAGRAM

TOWNSHIP 4 NORTH RANGE 21 WEST
 GILA AND SALT RIVER MERIDIAN, ARIZONA

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

T. 4 N., R. 21 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the east boundary and the subdivision of section 36, Township 4 North, Range 21 West, Gila and Salt River Meridian, Arizona.

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

In 1875, Chandler Robbins surveyed the Colorado River Indian Reservation, in accordance with an Executive Order, dated November 16, 1874.

In 1912, Guy P. Harrington surveyed the Colorado River Indian Reservation, as described in the letter from the General Land Office Commissioner, titled "Boundary lines, Colorado River Indian Reservation, Arizona and California", dated January 22, 1912. Harrington in 1912, also surveyed the south and east boundaries, and the subdivisional lines. A portion of the Colorado River Indian Reservation within the township, was extinguished via Executive Order No. 2273, dated November 22, 1915.

Public Law 109-47, dated August 2, 2005, restored the boundary of the Colorado River Indian Reservation as surveyed by Harrington in 1912.

Mineral Survey No. 4646 was executed by Louis A. Cornejo, in 1967, and canceled via notice from the Chief Cadastral Surveyor of Arizona, dated March 11, 2002.

Gordon R. Bubel surveyed a portion of the south boundary in 2008.

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 January 10, 2008, for Group Number 1037, 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.

T. 4 N., R. 21 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Geodetic control was derived from first order U. S. Geological Survey triangulation station EHRENBURG, as published by the National Geodetic Survey, NAD 83 (1992). The geographic position of the corner of townships 3 and 4 north, ranges 20 and 21 west, is as follows:</p> <p>Latitude: 33°38'10.56" N. Longitude: 114°22'23.78" W.</p> <p>The mean magnetic declination is 12° E.</p>
	<hr/> <p style="text-align: center;">Dependent Resurvey of a Portion of the East Boundary, T. 4 N., R. 21 W., Gila and Salt River Meridian, Arizona</p> <hr/>
	<p style="text-align: center;">Restoring the survey executed by Guy P. Harrington, in 1912</p> <hr/>
	<p>From the cor. of Tps. 3 and 4 N., Rs. 20 and 21 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 4 1/2 ft. base, to top, with brass cap mkd. S36 T4N R21W S31 S1 S6 T3N R20W 1912 2008.</p> <p>N. 0°02' W., bet. secs. 31 and 36, on the E. bdy. of the Tp.</p> <p>Descending over mountainous land.</p>
30.09	<p>Cor. No. 2 of Surprise No. 1 lode, cancelled M.S. No. 4646, monumented with an iron post, 2 ins. diam., firmly set in concrete, projecting 6 ins. above ground, with brass cap mkd. S1-2-4646.</p>
39.18	<p>Cor. No. 1 of Surprise No. 1 lode, identical with Cor. No. 1 of Old 60 & 70 No. 1 lode, cancelled M.S. No. 4646, monumented with an iron post, 2 ins. diam., firmly set in concrete, projecting 6 ins. above ground, with brass cap mkd. S1-1-0.60 & 70.1-1 4646.</p>
40.16	<p>Point for the 1/4 sec. cor. of secs. 31 and 36, reestablished at record dist., (65.15 ft.), from Cor. No. 1 of Surprise No. 1 lode, identical with Cor. No. 1 of Old 60 & 70 No. 1 lode, cancelled M.S. No. 4646.</p> <p>At the corner point</p> <p>Set an aluminum post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with aluminum cap mkd.</p>

**Dependent Resurvey of a Portion of the East Boundary,
T. 4 N., R. 21 W., Gila and Salt River Meridian, Arizona**

CHAINS

T 4 N
R 21 W R 20 W
1/4
S 36 | S 31
2008

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

Raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor.

Cor. is located within utilities right-of-ways.

N. 0°02' W., beginning new measurement.

19.89

Point for a witness point, at intersection with the southerly right-of-way of U.S. Interstate Highway No. 10, on the arc of a circular curve to the right, having a central angle of 26°53', a radius of 3611.6 ft. and a length of 1694.4 ft.

Set an aluminum post, 28 ins. long, 2 1/2 ins. diam., 12 ins. in the ground, to bedrock, in a mound of stone, 3 1/2 ft. base, to top, with aluminum cap mkd.

WP
T 4 N
R 21 W R 20 W
C
R
S 36 | S 31 I
T
2008

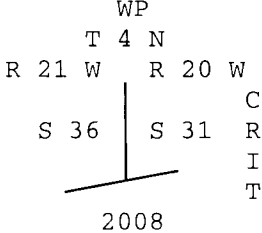
Deposit a magnet, in a white plastic case, at the base of the aluminum post.

Cor. is located 11 lks. S. of a right-of-way fence, (barbed wire, bears N. 80° E. and S. 80° W.), on a steep rocky W. facing slope.

From this cor. point, the calculated position for Arizona Dept. of Transportation, right-of-way station 498 + 96.65 S.T., on the southerly right-of-way of U.S. Interstate Highway No. 10, bears S. 66°27' W., 15.83 chs. dist.

From this same cor. point, the calculated position for Arizona Dept. of Transportation, right-of-way station 516 + 85.54 C.S., on the southerly right-of-way of U.S. Interstate Highway No. 10, bears N. 79°53' E., 9.77 chs. dist.

**Dependent Resurvey of a Portion of the East Boundary,
T. 4 N., R. 21 W., Gila and Salt River Meridian, Arizona**

CHAINS	
26.15	<p>Point for a witness point, at intersection with the northerly right-of-way of U.S. Interstate Highway No. 10, on the arc of a circular curve to the right, having a central angle of 26°53', a radius of 4011.6 ft. and a length of 1882.0 ft.</p> <p>Set an aluminum post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in a mound of stone, 3 ft. base, to top, with aluminum cap mkd.</p> <div style="text-align: center;">  </div> <p>Deposit a magnet, in a white plastic case, at the base of the aluminum post.</p> <p>From this cor. point, the calculated position for Arizona Dept. of Transportation, right-of-way station 498 + 96.65 S.T., on the northerly right-of-way of U.S. Interstate Highway No. 10, bears S. 67°13' W., 19.21 chs. dist.</p> <p>From this same cor. point, the calculated position for Arizona Dept. of Transportation, right-of-way station 516 + 85.54 C.S., on the northerly right-of-way of U.S. Interstate Highway No. 10, bears N. 80°39' E., 9.22 chs. dist.</p>
40.08	<p>The cor. of secs. 25, 30, 31 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 4 1/2 ft. base, to top, with brass cap mkd. S25 S30 T4N R21W R20W S36 S31 1912.</p> <p>Add the marks 2008 to the brass cap.</p> <p>Cor. is located on a ledge, within steep, rocky W. facing slope.</p> <hr/> <p align="center">Subdivision of Section 36, T. 4 N., R. 21 W., Gila and Salt River Meridian, Arizona</p> <hr/> <p>From the 1/4 sec. cor. of secs. 1 and 36, on the S. bdy. of the Tp., monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 8 ins. above ground, in a mound of stone, 2 1/2 ft. base, to top, with aluminum cap mkd. T4N R21W S36 1/4 S1 T3N 2008.</p> <p>N. 0°07' W., on the N. and S. center line of sec. 36.</p>

**Subdivision of Section 36,
T. 4 N., R. 21 W., Gila and Salt River Meridian, Arizona**

CHAINS	
35.38	<p>Ascending, over mountainous land.</p> <p>Point for a witness point, at intersection with the southerly right-of-way of U.S. Interstate Highway No. 10, on the arc of circular curve to the right, having a central angle of $6^{\circ}14'$, a radius of 5542.8 ft. and a length of 602.9 ft.</p> <p>On an exposed face, of granite slab, 7 x 3 x 2 ft. high, chisel an X, 5 ins. high.</p> <p>from which</p> <p style="padding-left: 40px;">A road cut, 9 ft. wide, 6 ft. high, bears S. 10° E., 2.5 lks. dist., with XBO chiseled on face.</p> <p style="padding-left: 40px;">An aluminum post, 28 ins. long, 2 1/2 ins. diam., set 18 ins. in the ground for a reference monument, bears N. $0^{\circ}07'$ W., 50 ft. dist. with aluminum cap mkd. RM T4N R21W CRIT S36 50.0 FT TO COR. 2008, and an arrow pointing to the cor.</p> <p>Cor. is located within utilities right-of-ways.</p> <p>From this cor. point, the calculated position for Arizona Dept. of Transportation, right-of-way station 475 + 84.73 S.C., on the southerly right-of-way of U.S. Interstate Highway No. 10, bears S. $48^{\circ}35'$ W., 3.02 chs. dist.</p> <p>From this same cor. point, the calculated position for Arizona Dept. of Transportation, right-of-way station 482 + 09.73 C.S., on the southerly right-of-way of U.S. Interstate Highway No. 10, bears N. $51^{\circ}40'$ E., 6.11 chs. dist.</p>
43.14	<p>Point for a witness point, at intersection with the northerly right-of-way of U.S. Interstate Highway No. 10, on the arc of circular curve to the right, having a central angle of $6^{\circ}14'$, a radius of 5942.8 ft. and a length of 646.4 ft.</p> <p>Set an aluminum post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, in a collar of stone, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>WP</p> <p>T 4 N R 21 W</p> <p>C</p> <p>CRIT S 36</p> <p>— —</p> <p>C</p> <p>2008</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the aluminum post.</p>

**Subdivision of Section 36,
T. 4 N., R. 21 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>Cor. is located 1 lk. S. of a right-of-way fence, barbed wire, bears N. 50° E. and S. 50° W.</p> <p>From this cor. point, the calculated position for Arizona Dept. of Transportation, right-of-way station 475 + 84.73 S.C., on the northerly right-of-way of U.S. Interstate Highway No. 10, bears S. 50°10' W., 8.26 chs. dist.</p> <p>From this same cor. point, the calculated position for Arizona Dept. of Transportation, right-of-way station 482 + 09.73 C.S., on the northerly right-of-way of U.S. Interstate Highway No. 10, bears N. 53°14' E., 1.53 chs. dist.</p>
80.17	<p>The 1/4 sec. cor. of secs. 25 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 28 ins. above ground, with brass cap mkd. 1/4 S25 S36 1912.</p> <p>Add the marks T4N R21W 2008 to the brass cap and build a mound of stone, 3 ft. base, 1 ft. high around the iron post.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>The area embraced in this survey, varies from rolling land in the western part to high, rough and rocky ridges and peaks, of the Dome Rock Mountains.</p> <p>The vegetation is dominated by cacti, palo verde and creosote.</p> <p>Numerous mining claims corners were encountered throughout the area surveyed.</p> <p>The state of Arizona has acquired title to the E 1/2, of section 36.</p> <p>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 2005 for the dates of survey.</p> <hr/>

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

FIELD ASSISTANTS

NAMES	CAPACITY
Geoffrey A. Graham	Land Surveyor
Robert J. Lyle	Surveying Technician
Steven F. Long	Surveying Technician

CERTIFICATE OF SURVEY

I, Gordon R. Bubel, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 10th day of January, 2008, I have dependently resurveyed a portion of the east boundary and subdivided section 36, Township 4 North, Range 21 West 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.

NOV. 10, 2008

(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 east boundary and the subdivision of section 36, T. 4 N., R. 21 W., 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.

02/05/2009

(Date)

Stephen H. Hamer

(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. 4 N., R. 21 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~