

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF A PORTION
OF THE EXTERIOR BOUNDARY
OF THE GILA RIVER INDIAN RESERVATION
IN SECTION 5
TOWNSHIP 5 SOUTH, RANGE 8 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Gordon R. Bubel, Cadastral Surveyor

Under Special Instructions dated September 17, 2014, approved September 17, 2014, which provided for the surveys included under Group No. 1135, and assignment instructions dated September 17, 2014.

Survey commenced October 6, 2014

Survey completed October 21, 2014

INDEX DIAGRAM

TOWNSHIP 5 SOUTH RANGE 8 EAST
GILA & SALT RIVER MERIDIAN, ARIZONA

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Dependent Resurvey of the E. and W.
center line of Section 5 Pages 7-10

T. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the exterior boundary of the Gila River Indian Reservation in section 5, Township 5 South, Range 8 East, Gila and Salt River Meridian, Arizona.

The history pertaining to this survey is as follows: Ralph W. Norris surveyed the exterior and subdivisional lines in 1869. The southeast quarter of section 5 was patented by cash entry in 1874, the southwest quarter of section 5 was patented by cash entry in 1875. Via executive order dated August 31, 1876, section 4 and the north one half of section 5 was "withdrawn from the public domain and set apart as an addition to the Gila River Indian Reservation in Arizona for the use and occupancy of the Pima and Maricopa Indians". In 1910-1912, Guy P. Harrington resurveyed the exterior boundaries, meander lines and subdivisional lines within the Gila River Indian Reservation, and employing the three mile method, subdivided the north half of section 5. In 1928 Dupree R. Averill and others resurveyed the subdivisional lines outside the Gila River Indian Reservation, remonument the corner common to sections 4, 5, 8 and 9. A supplemental plat, subdividing by protraction lots within the Gila River Indian Reservation, in section 5, was officially filed on February 12, 1930.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and the Special Instructions dated September 11, 2014, for Group Number 1135, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation R8 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): PIMA COMM COLLEGE CORS ARP, MARICOPA CORS ARP and SANTAN PARK CORS ARP. The NAD 83(2011) (EPOCH:2010.0000), geographic position of the corner of sections 4, 5, 8 and 9 is as follows:

Latitude: 33°01'00.868" N.

Longitude: 111°32'29.747" W.

T. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS

The NAD 83(2011) (EPOCH:2010.0000), geographic position of the 1/4 section corner of sections 5 and 6 is as follows:

Latitude: 33°01'26.332" N. Longitude: 111°33'32.129" W.

The mean magnetic declination is 10 1/2° E.

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Guy P. Harrington, in 1911

Beginning at the cor. of secs. 4, 5, 8 and 9, monumented with an iron post, 2 ins. diam., firmly set 24 ins. below the surface, with a corroded and unreadable brass cap.

from which

A stainless steel post, 2 1/2 ins. diam., set 22 ins. in the ground for a reference monument, bears N. 25°00' E., 33 ft. dist. with brass cap mkd. RM T5S R8E 33.0 FT TO COR. S4 2014 and an arrow pointing to the cor. Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

and a bearing object of unknown origin

An X chiseled on the NW end of a concrete irrigation head wall, bears S. 15 1/2° E., 7 lks. dist.

Cor. is located on the northerly bank of an irrigation canal, 15 ft. wide, 6 ft. deep, bears NE and SW, and 9 lks. E., of the E. edge of Kenworthy Road, paved, 20 ft. wide, bears N. and S.

The bearing tree mkd. in 1911 and the reference monuments established in 1928 were searched for and not found.

From this cor., the 1/4 sec. cor. of secs. 8 and 9, bears S. 1°09' E., 40.20 chs. dist. monumented with an iron post, 1 in. diam., with a damaged and unreadable brass cap, set 24 ins. below the pavement of Kenworthy Road.

N. 0°57' W., bet. secs. 4 and 5, maintaining the record angular relationship (0°12' clockwise) of the line bet. secs. 8 and 9, and the line bet. secs. 4 and 5, in accordance with the 1911 record.

Over level land, E. of private road to Diablo Sand and Gravel Co., on Gila River Indian Reservation bdy.

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>The Gila River Indian Reservation is hereinafter referred to as the Gila River Indian Community and abbreviated GRIC.</p>
15.20	S. edge irrigation canal, 6 ft. deep, bears E. and W.
15.45	N. edge of same.
16.30	Power line, bears SE and W.
17.12	Point selected for a witness point.
	<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;">WP T 5 S R 8 E S 5 S 4 GRIC 2014</p>
	<p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>
	<p>Set a steel fence post, alongside the stainless steel post.</p>
17.84	Edge of pavement, private road, road extends NNE on to GRIC lands.
19.88	<p>Point for the S. 1/16 sec. cor. of secs. 4 and 5, at record dist., there is no remaining evidence of the 1911 cor.</p>
	<p>Set a railroad spike, flush with the surface of asphalt.</p>
	<p>From this cor., a masonry nail set flush with the surface of asphalt bears S. 75°47' W., 7.3 lks. dist.</p>
	<p>From this same cor., the easterly edge of asphalt bears E., 24.7 lks. dist.</p>
20.96	Edge of pavement, private road, road extends SSE onto GRIC lands.
21.26	<p>Intersect the southerly end of berm, 20 to 25 ft. wide, 10 to 15 ft. high, extends irregularly N., composed of waste dirt, concrete slabs and construction debris.</p> <p>thence; along easterly slope of berm.</p>
24.50	<p>Intersect the easterly toe of berm, top of berm bears W. 30 lks. dist.</p> <p>thence; along easterly slope of berm.</p>

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS	
30.90	Intersect top of berm, extends N. 6° E. and S. 11° W.
32.94	Intersect top of berm, extends S. 26° E. and N. 26° W. thence; descend 15 ft. into flood plain of Gila River.
33.61	Intersection of berm with flood plain of Gila River. thence; over flood plain of Gila River.
37.35	Edge of water, reservoir within Gila River flood plain, created by berm and sand and gravel mining activity, water extends NE onto GRIC lands.
39.76	True point for the 1/4 sec. cor. of secs. 4 and 5 at record dist., there is no remaining evidence of the 1911 monument. Cor. point falls within reservoir in Gila River flood plain where it is impracticable to establish a permanent monument.
39.95	Cut bank, 5 ft. high, extends ESE and WNW, depart reservoir.
40.26	Point selected for a witness cor. to the 1/4 sec. cor. of secs. 4 and 5. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	<p align="center">WC T 5 S R 8 E 1/4 S 5 S 4 2014</p>
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
	From this witness cor., a rebar 1/2 in. diam., firmly set, projecting 5 ins. above ground, with attached 1 in. plastic cap, stamped RLS 13056, bears S. 55°49' E., 94 lks. dist.
	From this same witness cor., a rebar 1/2 in. diam., firmly set, projecting 1 ins. above ground, with attached 1 in. plastic cap, stamped RLS 13056, bears N. 42°36' W., 21 lks. dist.
	<hr/> <p align="center">Dependent Resurvey of the E. and W. center line of Section 5 T. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona</p> <hr/>
	<p align="center">Restoring the survey executed by Guy P. Harrington, in 1911</p> <hr/>

Dependent Resurvey of the E. and W. center line of Section 5,
T. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS	
	From the true point for the 1/4 sec. cor. of secs. 4 and 5, hereinbefore described.
	S. 89°27' W., on the E. and W. center line of sec. 5, identical with GRIC boundary.
	Across reservoir, water's edge extends northerly onto GRIC lands.
10.40	Intersection of earthen berm with cut bank. thence along earthen berm.
13.10	Edge of water, at west end of earthen berm, water extends northerly in channel of Gila River.
16.50	Depart water, enter active mining area.
16.80	Intersect the easterly edge of clean rock pile, (product of mining operation) about 15 ft. high, within flood plain of Gila River, pile extends northerly onto GRIC lands.
19.40	Westerly edge of same clean rock pile.
19.90	Top of manmade left bank of Gila River, bears S. 85° E. and N. 85° W.
19.96	Point for the center E. 1/16 sec. cor., at proportionate dist., there is no remaining evidence of the 1911 cor. or accessories. Point falls within active mining operation, not monumented.
22.00	Intersect the easterly edge of clean rock pile, about 15 ft. high, pile extends northerly onto GRIC lands.
24.00	Westerly edge of same clean rock pile.
25.00	Intersect the easterly edge of clean rock pile, about 100 ft. high, extends northerly onto GRIC lands.
28.55	Intersect the westerly edge of same clean rock pile.
28.80	Mining road, 15 ft. wide, bears NE and SW.
30.00	Point selected for a witness point. 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.

Dependent Resurvey of the E. and W. center line of Section 5,
T. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS	
	WP T 5 S R 8 E GRIC C———C S 5 2014
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
30.90	Edge of open pit, about 15 ft. deep, bears irregularly E. and W.
34.40	Edge of open pit, about 15 ft. deep, bears irregularly E. and W.
34.70	East end of dilapidated barbed wire fence, located 7 lks. N. of N. edge of open pit, about 15 ft. deep.
38.20	Edge of open pit, about 15 ft. deep, bears irregularly E. and W. Continuing in and along northerly edge of open pit.
39.92	Point for the center 1/4 sec. cor. at proportionate dist., there is no remaining evidence of the 1911 cor. or accessories. Set a rebar 18 ins. long, 16 ins, in the ground. from which A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 24 ins. in the ground for a reference monument, bears N. 45°03' E., 33.00 ft. dist. with brass cap mkd. RM T5S R8E 33.0 FT TO COR. S5 2014 and an arrow pointing to the cor. Deposit a magnet, in a white plastic case, at the base of the stainless steel post. A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 24 ins. in the ground for a reference monument, bears N. 45°02' W., 33.0 ft. dist. with brass cap mkd. RM T5S R8E 33.0 FT TO COR. S5 2014 and an arrow pointing to the cor. Deposit a magnet, in a white plastic case, at the base of the stainless steel post. Cor. is located 21 lks. N. of the N. edge of an open pit, approximately 30 ft. deep, bears irregularly E. and W., and 2 lks. S. of a dilapidated barbed wire fence. From this cor., a rebar, 1/2 in. diam., firmly set 8 ins. below the surface, with attached 1 in. plastic cap stamped LS 16097, bears S. 75°24' W., 6.2 lks. dist.

Dependent Resurvey of the E. and W. center line of Section 5,
T. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS	
40.40	Intersect the easterly end of waste dirt pile, S. of dilapidated wire fence, dirt pile is 10 ft. high, extends WNW onto GRIC lands.
41.20	Westerly end of same waste dirt pile.
41.70	Intersect the easterly end of waste dirt pile, S. of dilapidated wire fence, pile is 10 ft. high, extends WNW onto GRIC.
45.00	Westerly end of same dirt pile.
48.50	Right bank, S. fork of Gila River, also referred to as "Little Gila River", bears S. 40° E. and N. 40° W.
52.30	Left bank of S. fork of Gila River, also referred to as "Little Gila River".
59.88	Point for the center W. 1/16 sec. cor. of sec. 5, at proportionate dist., there is no remaining evidence of the 1911 cor. or accessories.
	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 style="text-align: center;">T 5 S R 8 E W 1/16 C ——— C S 5</p> <p style="text-align: center;">2014</p>
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
	Cor. is located 5 lks. S. of a dilapidated barbed wire fence, bears irregularly E. and W., and 17 lks. N. of the N. edge of a gravel road, bears E. and W.
	From this cor., a rebar 1/2 in. diam., firmly set, projecting 4 ins. above ground, bears S. 75°04' W., 3.0 lks. dist.
	Continuing measurement, between irrigation canal to the S. and S. edge of gravel road to the N., both bear E. and W.
79.57	E. edge of pavement, Skousen Road, 20 ft. wide, bears N. and S.
79.84	The 1/4 sec. cor. of secs. 5 and 6, monumented with a brass disk, 3 ins. diam., seated in concrete, 3 ins. below the pavement of Skousen Road, with top mkd. T5S R8E 1/4 S6 S5 RESET 197 EL 19.
	from which

Dependent Resurvey of the E. and W. center line of Section 5,
T. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona

CHAINS

A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 22 ins. in the ground for a reference monument, bears N. 23°57' E., 121.0 ft. dist. with brass cap mkd. RM T5S R8E 121.0 FT TO COR. S5 2014 and an arrow pointing to the cor. Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 24 ins. in the ground for a reference monument, bears N. 58°56' E., 74.3 ft. dist. with brass cap mkd. RM T5S R8E 74.3 FT TO COR S5 2014 and an arrow pointing to the cor. Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

There is no remaining evidence of the 1911 bearing trees.

GRIC survey records reveal that this monument was set on top of the 1911 iron post.

GENERAL DESCRIPTION

The land encompassed in section 5, is located adjacent to the city of Coolidge, Arizona. The Gila River Indian Community, with native desert occupies the north half of the section. The south half of the section is occupied by agricultural fields, a sand and gravel mining operation and a cement block manufacturer. The terrain is nearly level with a mean elevation of 1350 ft. above sea level.

The Gila River flood plain enters the section near the 1/4 section corner of sections 4 and 5, and exits north of the 1/4 section cor. of 5 and 6. A small reservoir formed by an earthen berm is located in the NE and SE quarters of the section. Due to upstream diversion dams, utilized for irrigation canals and the 1992-93 floods, the main channel of the Gila River is indiscernible in section 5.

Access is provided by Arizona State Highway number 87, Skousen and Kenworthy Roads.

The mean magnetic declination of 10 1/2° E. was derived from the National Oceanic and Atmospheric Administration, on line magnetic field calculator for a date of the survey.

CERTIFICATE OF SURVEY

I, Gordon R. Bubel, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 17th day of September, 2014, I have dependently resurveyed a portion of the exterior boundary of the Gila River Indian Reservation in section 5, Township 5 South, Range 8 East, of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction. Said survey has been made in strict conformity with said special instructions, the Manual of Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and in specific manner described in the foregoing field notes.

APRIL 6, 2015

(Date)



(Cadastral Surveyor)

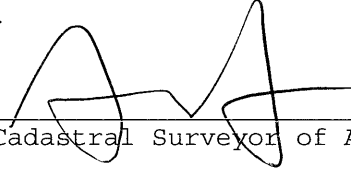
CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the exterior boundary of the Gila River Indian Reservation in section 5, Township 5 South, Range 8 East, 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.

4/7/2015

(Date)



(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. 5 S., R. 8 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~