ORIGINAL

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF

THE DEPENDENT RESURVEY OF

A PORTION

OF THE BASE LINE

IN

TOWNSHIPS 1 NORTH, RANGES 17, 18 AND 19 EAST,

OF THE GILA AND SALT RIVER MERIDIAN,

IN THE STATE OF ARIZONA.

EXECUTED BY

Geoffrey A. Graham, Cadastral Surveyor

Under Special Instructions dated March 15, 2010, approved March 15, 2010, which provided for the surveys included under Group No. 1074, and assignment instructions dated March 15, 2010.

Survey commenced March 23, 2010

Survey completed April 5, 2010

INDEX DIAGRAM

TOWNSHIPS 1 NORTH RANGES 17, 18 and 19 EAST GILA AND SALT RIVER MERIDIAN, ARIZONA

		R17E	R18E					R18E	R19E			
34 4	35 4	36 5	31 5	32 6	33	34 7	35 8	8	31 9	32 9	33	34 10
R17E	R18E				R	18E	R19E					

Gila and Salt River Base Line

Tps. 1 N., Rs. 17, 18 and 19 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the Base Line in Townships 1 North, Ranges 17, 18 and 19 East, Gila and Salt River Meridian, Arizona.

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

H.L. Baldwin surveyed the Base Line in Ranges 17 and 18 East, in 1915. William. E. Hiester surveyed the Base Line in Range 19 East, in 1931.

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 March 15, 2010, for Group Number 1074, 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) DL6010 AZSV STAR VALLEY, DH4513 P015 DUECECLUBSAZ2005 and DK7569 AZSF SAFFORD.

The NAD 83 (CORS96) (EPOCH: 2002), geographic position of the standard 1/4 section corner of section 34, Township 1 North, Range 17 East, is as follows:

Latitude: 32°22'44.10" N. Longitude: 110°33'27.41" W.

The NAD 83 (CORS96) (EPOCH: 2002), geographic position of the standard corner of sections 34 and 35, Township 1 North, Range 19 East, is as follows:

Latitude: 32°22'44.00" N. Longitude: 110°20'29.17" W.

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

	Restoring the survey executed by H. L. Baldwin, in 1915
	Beginning at the stan. 1/4 sec. cor. of sec. 34, monumented wit an iron post, 1 in. diam., firmly set, projecting 4 ins. above supporting mound of stone, 3 ft. base, 2 ft. high, with bras cap mkd. SC T1N R17E 1/4 S34 1915 2001.
	Add the marks 2010 to the brass cap.
	N. 89°58' E., on the Base Line.
24.03	The closing cor. of Tps. 1 S., Rs. 17 and 18 E., monumented with a stainless steel post, 2 1/2 ins. diam., firmly set projecting 5 ins. above the ground, with brass cap mkd. T1N R17 S34 S1 S6 R17E R18E CC T1S 2001. This cor. was established by Joe R. Salazar in the course of surveying T. 1 S., R. 17 E.
	Add the marks 2010 to the brass cap.
	Raise an accessory mound of stone 2 ft. base, 2 ft. high S. of the cor.
	N. 89°58' E., beginning new measurement.
16.00	The stan. cor. of secs. 34 and 35, T. 1 N., R. 17 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 13 instabove the ground, in a collar of stone, with brass cap mkd. ST1N R17E S34 S35 1915 2001. An accessory mound of stone 3 ft base, 2 ft. high is N. of the cor.
	Add the marks 2010 to the brass cap.
	East, on the Base Line.
39.99	The stan. 1/4 sec. cor. of sec. 35, monumented with an iropost, 1 in. diam., loosely set, projecting 10 ins. above the ground, with brass cap mkd. SC 1/4 S35 1915. An accessory mount of stone is scattered N. of the cor.
	Raise a supporting mound of stone, 3 ft. base to top, utilizing the scattered accessory mound.
	Add the marks T1N R17E 2010 to the brass cap.
	East, beginning new measurement.

Tps. 1	N., Rs. 17, 18 and 19 E., Gila and Salt River Meridian, Arizona
CHAINS	
39.99	The stan. cor. of secs. 35 and 36, T. 1 N., R. 17 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. SC T1N R17E S35 S36 1915. An accessory mound of stone 3 ft. base, 2 ft. high, is N. of the cor.
	Add the marks 2010 to the brass cap.
	N. 89°59' E., on the Base Line.
40.01	The proportionate position for the stan. 1/4 sec. cor. of sec. 36. This position was unstable in 1915. Conditions now permit the setting of this cor.
	At the corner point
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., flush with the ground, underpinned with a steel fence post, 6 ft. long, in a collar of stone, with brass cap mkd.
	SC
	T 1 N R 17 E 1/4 S 36
	2010
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
	Cor. is located at the NW end of an abandoned earthen stock tank, locally known as Deadwood.
40.50	Record position for the original 1915 witness cor.; no evidence of the orig. cor. remains.
80.02	The stan. cor. of Tps. 1 N., Rs. 17 and 18 E., monumented with an iron post, 3 ins. diam., loosely set, projecting 27 ins. above the ground, with brass cap mkd. SC T1N R17E R18E S36 S31 1915. An accessory mound of stone is scattered N. of the cor.
	Raise a supporting mound of stone, 4 ft. base to top, utilizing the scattered accessory mound.
	Add the marks 2010 to the brass cap.
	East, on the Base Line in R. 18 E.
ì	

Dependent Resurvey of a Portion of the Base Line, Tps. 1 N., Rs. 17, 18 and 19 E., Gila and Salt River Meridian, Arizona

	N., Rs. 17, 18 and 19 E., Gila and Salt River Meridian, Arizona
CHAINS	
40.025	The stan. 1/4 sec. cor. of sec. 31, monumented with an iron post, 1 in. diam., loosely set, projecting 12 ins. above the ground, with brass cap mkd. SC 1/4 S31 1915. An accessory mound of stone is scattered N. of the cor.
	Raise a supporting mound of stone, 3 ft. base to top, utilizing the scattered accessory mound.
	Add the marks T1N R18E 2010 to the brass cap.
	East, beginning new measurement.
40.02	The stan. cor. of secs. 31 and 32, T. 1 N., R. 18 E., monumented with an iron post, 3 ins. diam., loosely set, projecting 12 ins. above the ground, with brass cap mkd. SC T1N R18E S31 S32 1915. An accessory mound of stone is scattered N. of the cor.
	Raise a supporting mound of stone, 4 ft. base, to top, utilizing the scattered accessory mound.
	Add the marks 2010 to the brass cap.
	East, on the Base Line.
40.00	The stan. 1/4 sec. cor. of sec. 32, monumented with an iron post, 1 in. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. SC 1/4 S32 1915. An accessory mound of stone is embedded N. of the cor.
	Add the marks T1N R18E 2010 to the brass cap.
	Rebuild accessory mound of stone, 3 ft. base, 1 1/2 ft. high.
	N. 89°58' E., beginning new measurement.
40.00	The stan. cor. of secs. 32 and 33, T. 1 N., R. 18 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 14 ins. above the ground, with brass cap mkd. SC T1N R17E S32 S33 1915. An accessory mound of stone is scattered N. of the cor.
	Remark the brass cap to read T18E and add the marks 2010.
	Rebuild accessory mound of stone, 3 ft. base, 1 1/2 ft. high.
	N. 89°59' E., on the Base Line.

Tps. I	N., Rs. 17, 18 and 19 E., Gila and Salt River Meridian, Arizona
CHAINS	
40.01	The stan. 1/4 sec. cor. of sec. 33, monumented with an iron post, 1 in. diam., firmly set, flush with the ground, with brass cap mkd. SC 1/4 S33 1915. A scattered accessory mound of stone is N. of the cor.
	Add the marks T1N R18E 2010 to the brass cap.
	Rebuild the accessory mound of stone, 3 ft. base, 2 ft. high.
	Cor. is near a tufa stone quarry.
	S. 89°58' E., beginning new measurement.
40.01	The stan. cor. of secs. 33 and 34, T. 1 N., R 18 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. SC T1N R17E S33 S34 1915 2009. An accessory mound of stone is scattered N. of the cor., with a steel fence post set near.
	Remark brass cap to read R18E and add the marks 2010.
	S. 89°58' E., on the Base Line.
40.01	Point for the stan. 1/4 sec. cor of sec. 34. At proportionate dist. there is no remaining evidence of the orig. cor.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., flush with the ground, in a collar of stone, with brass cap mkd.
	SC T 1 N R 18 E 1/4 S 34
	2010
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
48.35	Top of dike, 12 ft. high, on right bank of Seven Mile Wash, with road on top, 18 ft. wide, bears S. 25° E. and N. 25° W.
61.90	The closing cor. of Tps. 1 S., Rs. 18 and 19 E., monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd. T1N R18E S34 S1 S6 R18E R19E CC T1S 2009. This cor. was established by Joe R. Salazar in the course of the plat only survey of T. 1 S., R. 18 E.
	Add the marks 2010 to the brass cap.

Dependent Resurvey of a Portion of the Base Line, Tps. 1 N., Rs. 17, 18 and 19 E., Gila and Salt River Meridian, Arizona

Tps. 1	N., Rs. 17, 18 and 19 E., Gila and Salt River Meridian, Arizona
CHAINS	
80.02	The stan. cor. of secs. 34 and 35, T. 1 N., R. 18 E., monumented with an iron post, 3 ins. diam., loosely set, in a scattered mound of stone, projecting 14 ins. above the ground with brass cap mkd. SC T1N R17E S34 S35 1915 2009.
	Raise supporting mound of stone, 4 ft. base, 1 ft. high.
	Remark brass cap to read R18E and add the marks 2010.
	S. 89°56' E., on the Base Line.
40.00	The stan. 1/4 sec. cor. of sec. 35, monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above the ground, in a collar of stone, with brass cap mkd. SC 1/4 S35 1915. An accessory mound of stone is scattered N. of the cor.
	Add the marks T1N R18E 2010 to the brass cap.
	Rebuild the accessory mound of stone to 3 ft. base, 2 ft. high.
	S. 89°58' E., beginning new measurement.
40.00	The stan. cor. of secs. 35 and 36, T. 1 N., R. 18 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. SC T1N R18E S35 S36 1915. An accessory mound of stone 3 ft. base, 2 1/2 ft. high is N. of the cor.
	Add the marks 2010 to the brass cap.
	S. 89°58' E., on the Base Line.
39.98	The stan. 1/4 sec. cor. of sec. 36, monumented with an iron post, 1 in. diam., firmly set., projecting 14 ins. above the ground, with brass cap mkd. SC 1/4 S36 1915. An accessory mound of stone, 3 ft. base, 2 ft. high is N. of the cor.
	Add the marks T1N R18E 2010 to the brass cap.
	S. 89°57' E., beginning new measurement.
40.00	The stan. cor. of Tps. 1 N., Rs. 18 and 19 E., monumented with an iron post, 3 ins. diam., loosely set, projecting 16 ins. above the ground, with brass cap mkd. SC T1N R18E R19E S36 S31 1915. An accessory mound of stone is scattered N. of the cor.
	Raise a supporting mound of stone, 3 ft. base to top, utilizing the scattered accessory mound.

CHAINS	N., Rs. 17, 18 and 19 E., Gila and Salt River Meridian, Arizona
	Add the marks 2010 to the brass cap.
	Restoring the survey executed by William E. Hiester, in 1931
	S. 89°58' E., on the Base Line, in R. 19 E.
39.96	The stan. 1/4 sec. cor. of sec. 31, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above a supporting mound of stone, 4 ft. base 2 ft. high, with brass cap mkd. SC 1/4 S31 1931.
	Add the marks T1N R19E 2010 to the brass cap.
	East, beginning new measurement.
40.00	The stan. cor. of secs. 31 and 32, T. 1 N., R. 19 E., monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. SC T1N R19E S31 S32 1931. An accessory mound of stone 3 ft. base, 2 ft. high is N. of the cor.
	Add the marks 2010 to the brass cap.
	S. 89°59' E., on the Base Line.
19.10	Top edge of mesa bears N. 30° E., and S. 30° W.
40.01	The stan. 1/4 sec. cor. of sec. 32, monumented with an iron post, 1 in. diam., bent over and loosely set, projecting 26 ins. above the ground in a scattered supporting mound of stone, with brass cap mkd. SC 1/4 S32 1931.
	Straighten and reset the 36 ins. long iron post, 24 ins. in the ground, in a supporting mound of stone 3 ft. base to top.
	Add the marks T1N R19E 2010 to the brass cap.
	East, beginning new measurement.
40.00	The stan. cor. of secs. 32 and 33, T. 1 N., R. 19 E., monumented with an iron post, 2 ins. diam., loosely set, projecting 17 ins. above the ground, with brass cap mkd. SC T1N R19E S32 S33 1931. An accessory mound of stone is embedded N. of the cor.
	Raise a supporting mound of stone, 3 ft. base to top, utilizing the accessory mound.

	N., RS. 17, 18 and 19 E., Gila and Salt River Meridian, Arizona
CHAINS	
	Add the marks 2010 to the brass cap.
	S. 89°59' E., on the Base Line.
40.02	The stan. 1/4 sec. cor. of sec. 33, monumented with an iron post, 1 in. diam., loosely set, projecting 16 ins. above the ground, with brass cap mkd. SC 1/4 S33 1931. An accessory mound of stone is embedded N. of the cor.
	Raise a supporting mound of stone, 3 ft. base to top, utilizing the accessory mound.
	Add the marks T1N R19E 2010 to the brass cap.
	East, beginning new measurement.
40.01	The stan. cor. of secs. 33 and 34, T. 1 N., R. 19 E., monumented with an iron post, 2 ins. diam., loosely set, projecting 18 ins. above the ground, with brass cap mkd. SC T1N R19E S33 S34 1931. An accessory mound of stone 3 ft. base, 1 ft. high, is N. of the cor.
	Raise a supporting mound of stone, 4 ft. base to top, utilizing the accessory mound.
	Add the marks 2010 to the brass cap.
	East, on the Base Line.
40.01	The stan. 1/4 sec. cor. of sec. 34, monumented with an iron post, 1 in. diam., loosely set, projecting 15 ins. above the ground, with brass cap mkd. SC 1/4 S34 1931. An accessory mound of stone is embedded N. of the cor.
	Raise a supporting mound of stone, 3 ft. base to top, utilizing the accessory mound.
	Add the marks T1N R19E 2010 to the brass cap.
	S. 89°59' E., beginning new measurement.
40.00	The stan. cor. of secs. 34 and 35, monumented with an iron post, 2 ins. diam., loosely set, projecting 14 ins. above the ground, with brass cap mkd. SC T1N R19E S34 S35 1931. An accessory mound of stone is embedded N. of the cor.
	Raise a supporting mound of stone, 3 ft. base to top, utilizing the accessory mound.

This survey is located on the San Carlos Apache Reservation, N. of the community of San Carlos. Acce primarily cross country with only small sections reached various unimproved track roads near the populated areas. These portions of the Base Line were resurveyed to facilithe subdivision of portions of Townships specifically required by the San Carlos Apache Tribe. The mean magnetic declination of 10 1/2° E. was derived from National Geophysical Data Center's magnetic declinational Geophysical Outlifizing the International Geomag Reference Field model for years 2005 through 2010, for the of survey.					
Reservation, N. of the community of San Carlos. Acceprimarily cross country with only small sections reached various unimproved track roads near the populated areas. These portions of the Base Line were resurveyed to facilithe subdivision of portions of Townships specifically regulated subdivision of portions of Townships specifically regulated by the San Carlos Apache Tribe. The mean magnetic declination of 10 1/2° E. was derived from National Geophysical Data Center's magnetic declinational Geophysical Data Center's magnetic declinational Geomagnetic Reference Field model for years 2005 through 2010, for the		(GENERAL DESCR	IPTION	
the subdivision of portions of Townships specifically requby the San Carlos Apache Tribe. The mean magnetic declination of 10 1/2° E. was derived from National Geophysical Data Center's magnetic declinational Geomagnetic Calculator, GEOMAG v6.0, utilizing the International Geomagnetic Reference Field model for years 2005 through 2010, for the	Reservat primaril	ion, N. of the y cross country	e community y with only	of San Carlos. small sections re	Acces eached
National Geophysical Data Center's magnetic declin calculator, GEOMAG v6.0, utilizing the International Geomag Reference Field model for years 2005 through 2010, for the	the subd	ivision of port	tions of Town		
	National Calculate Reference	Geophysical or, GEOMAG v6.0 e Field model fo	Data Cente, utilizing t	er's magnetic the International	declina Geomag

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Wilfred "Monster" Dude	Bureau of Indian Affairs Surveying Technician
Blas J. Urena	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 15th day of March, 2010, I have dependently resurveyed a portion of the Base Line in Tps. 1 N., Rs. 17, 18 and 19 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 Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and in specific manner described in the foregoing field notes.

1/20/2012 (Date) Malla M. M. (Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the Base Line in Tps. 1 N., Rs. 17, 18 and 19 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.

(Chief Cadastral Surveyor of Arizona)

I CERTIFY That the foregoing transcript of the field notes of the above described surveys in Tps. 1 N., Rs. 17, 18 and 19 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

(Chief Cadastral Surveyor of Arizona)