

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF
A PORTION OF THE SOUTH BOUNDARY,
TOWNSHIP 32 1/2 NORTH, RANGE 8 EAST,
AND A PORTION OF THE EIGHT STANDARD PARALLEL NORTH
(SOUTH BOUNDARY),
TOWNSHIP 33 NORTH, RANGE 9 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA

EXECUTED BY

Jones Curtiss, Cadastral Surveyor

Under Special Instructions dated and approved February 10, 2009 which provided for the surveys included under Group No. 1059, and assignment instructions dated February 10, 2009.

Survey commenced July 23, 2009

Survey completed September 10, 2009

INDEX DIAGRAM

TOWNSHIPS 32 1/2 AND 33 NORTH RANGES 8 AND 9 EAST
 GILA AND SALT RIVER MERIDIAN, ARIZONA

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**Tps. 32 1/2 and 33 N., Rs. 8 and 9 E.,
Gila and Salt River Meridian, Arizona**

CHAINS	<p>The following field notes describe the dependent resurvey of a portion of the south boundary, Township 32 1/2 North, Range 8 East, and a portion of the Eighth Standard Parallel North (south boundary), Township 33 North, Range 9 East, Gila and Salt River Meridian, Arizona.</p> <p>The history of surveys pertaining to this survey is as follows: Philip Contzen surveyed the Second Guide Meridian East, through Township 32 North, Ranges 8 and 9 East in 1905. Philip Contzen surveyed the Eighth Standard Parallel North, Township 33 North, through Ranges 9, 10, 11 and 12 East in 1905. Robin T. Mathews surveyed Tracts 37 and 38, unsurveyed Township 32 North, Range 9 East in 1990. W. William Foster dependently resurveyed a portion of the Eighth Standard Parallel North (north boundary) and the west boundary, Township 32 North, Range 10 East in 2006. Following the cancellation of a portion of the Survey of the Second Guide Meridian East, approved July 26, 1905, by memo dated August 19, 2009, the survey of the Second Guide Meridian East (east boundary), Townships 30, 31 and 32 North, Range 8 East was executed by Jones Curtiss concurrently under this same group.</p> <p>The survey was executed in accordance with the specifications as set forth in the <u>Manual of Instructions for the Survey of the Public Lands of the United States, 1973</u>, and the Special Instructions dated February 10, 2009, for Group Number 1059, Arizona.</p> <p>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.</p> <p>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.</p> <p>Geodetic control was derived from the Global Positioning System (GPS) static observations post processed by National Geodetic Survey. Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) FLAGSTAFF 5 CORS ARP, NAU FLAGSTAFF CORS ARP and CITY OF PAGE CORS ARP. The NAD 83 (CORS96) (EPOCH: 2002) (EPOCH: 2009.2460), geographic position of the southwest corner of the Township 33 North, Range 9 East, is as follows:</p> <p>Latitude: 36°11'28.96" N. Longitude: 111°28'32.81" W.</p> <p>The mean magnetic declination is 11 1/2° E.</p> <hr/>
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**Dependent Resurvey of a Portion of the South Boundary,
T. 32 1/2 N., R. 8 E., Gila and Salt River Meridian, Arizona**

CHAINS

Restoring the survey executed by
Philip Contzen, in 1905

Beginning at the closing cor. of Tps. 32 N., Rs. 8 and 9 E.,
monumented with a stainless steel post, 2 1/2 ins. diam., firmly
set, projecting 4 ins. above ground, with brass cap mkd.
T32 1/2N R8E S36 S1 S6 R8E R9E T32N CC 2009, with a mound of
stone, 5 ft. base, 1 1/2 ft. high, S. of cor.

S. 89°59' E., on the S. bdy. of sec. 36, T. 32 1/2 N., R. 8 E.

Over rolling land.

16.90

The stan. cor. of Tps. 32 1/2 and 33 N., Rs. 8 and 9 E.,
monumented with a limestone, 15 x 5 x 4 ins., loosely set 3 ins.
in the ground, mkd. T33N on N. face, 9E and 6 grooves on E.
face, 8E and 6 grooves on W. face.

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.

SC	
T 32 1/2 N	T 33 N
R 8 E	R 9 E
S 36	S 31

2009

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

Bury the mkd. stone alongside the stainless steel post.

Dependent Resurvey of
a Portion of the Eighth Standard Parallel North
(South Boundary),
T. 33 N., R. 9 E., Gila and Salt River Meridian, Arizona

Restoring the survey executed by
Philip Contzen, in 1905

From the stan. cor. of Tps. 32 1/2 and 33 N., Rs. 8 and 9 E.,
hereinbefore described.

S. 89°59' E., on the S. bdy. of sec. 31.

Over rolling land.

Dependent Resurvey of a Portion of the Eighth Standard Parallel North
 (South Boundary),
 T. 33 N., R. 9 E., Gila and Salt River Meridian, Arizona

CHAINS	
40.04	<p>The stan. 1/4 sec. cor. of sec. 31, monumented with a limestone, 18 x 8 x 4 ins., loosely set 2 ins. in the ground, mkd. SC 1/4 31 on N. face., with a mound of stone, 3 ft. base, 1 ft. high, N. of 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;">SC T 33 N R 9 E 1/4 S 31 _____</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>Bury the mkd. stone alongside the stainless steel post and retain the mound of stone, N. of cor.</p> <p style="text-align: center;">_____</p> <p>S. 89°58' E., beginning new measurement.</p> <p>Over rolling land.</p>
40.065	<p>Point for the stan. cor. of secs. 31 and 32, at proportionate dist., there is no remaining evidence of the original cor.</p> <p>Set a brass tablet, 3 1/2 ins. diam., 2 1/4 ins. stem, cemented in a drill hole in exposed sandstone bedrock, with top mkd.</p> <p style="text-align: center;">SC T 33 N R 9 E S 31 S 32 _____</p> <p style="text-align: center;">2009</p> <p>Deposit a magnet, in a white plastic case, in the drill hole, beneath the brass tablet.</p> <p>Raise a mound of stone, 2 ft. base, 1 ft. high, N. of cor.</p> <p style="text-align: center;">_____</p> <p>S. 89°58' E., on the S. bdy. of sec. 32.</p> <p>Over rolling land.</p>
5.70	<p>High voltage transmission line, bears S. 5° E. and N. 5° W.</p>
8.00	<p>High voltage transmission line, bears S. 5° E. and N. 5° W.</p>

Dependent Resurvey of a Portion of the Eighth Standard Parallel North
(South Boundary),

T. 33 N., R. 9 E., Gila and Salt River Meridian, Arizona

CHAINS	
13.50	High voltage transmission line, bears S. 5° E. and N. 5° W.
15.60	High voltage transmission line, bears S. 5° E. and N. 5° W.
40.065	The stan. 1/4 sec. cor. of sec. 32, monumented with a limestone, 16 x 7 x 6 ins., firmly set 9 ins. in the ground, mkd. SC 1/4 on N. face, with a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
	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.
	SC T 33 N R 9 E 1/4 S 32 <hr style="width: 10%; margin: auto;"/>
	2009
	Deposit a magnet, in a white plastic case, at the base of the stainless steel post.
	Bury the mkd. stone alongside the stainless steel post and retain the mound of stone, N. of cor.
	<hr style="width: 20%; margin: auto;"/>
	S. 89°56' E., beginning new measurement.
	Over rolling and broken land.
8.10	High voltage transmission line, bears S. 5° E. and N. 5° W.
40.08	The stan. cor. of secs. 32 and 33, determined on the S. side of a mound of stone, 3 ft. base, 6 ins. high, and is accepted as the best available of the orig. cor. position. A limestone, 20 x 6 x 6 ins., was found lying loose nearby, mkd. SC on a side, 2 grooves on adjacent side, and 4 grooves on opposite side.
	At the corner point
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, with brass cap mkd.
	SC T 33 N R 9 E S 32 S 33 <hr style="width: 10%; margin: auto;"/>
	2009

Dependent Resurvey of a Portion of the Eighth Standard Parallel North
 (South Boundary),
 T. 33 N., R. 9 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Bury the mkd. stone alongside the stainless steel post and retain the mound of stone, N. of cor.</p> <hr/>
	<p>S. 89°54' E., on the S. bdy. of sec. 33.</p> <p>Over rolling and broken land.</p>
2.80	<p>Navajo Route 6133, a graded road, 28 ft. wide, bears S. 40° E. and N. 40° W.</p>
40.06	<p>The stan. 1/4 sec. cor. of sec. 33, monumented with a limestone, 19 x 8 x 5 ins., firmly set 4 ins. in the ground, mkd. SC 1/4 on N. face, with a scattered mound of stone, N. of 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;">SC T 33 N R 9 E 1/4 S 33</p> <hr style="width: 10%; margin: auto;"/>
	<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>Bury the mkd. stone alongside the stainless steel post and rebuild the mound of stone, 3 ft. base, 1 ft. high, N. of cor.</p> <hr/>
	<p>S. 89°56' E., beginning new measurement.</p> <p>Over rolling and broken land.</p>
40.04	<p>The stan. cor. of secs. 33 and 34, determined on the S. side of a mound of stone, 3 1/2 ft. base, 2 ft. high, and is accepted as the best available evidence of the orig. cor. position. A limestone, 18 x 7 x 5 ins., was found lying loose nearby, mkd. SC on a side, and 3 grooves on both adjacent sides.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, encircled with a collar of stone, with brass cap mkd.</p>

Dependent Resurvey of a Portion of the Eighth Standard Parallel North
(South Boundary),
T. 33 N., R. 9 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">SC T 33 N R 9 E <u>S 33 S 34</u></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>Bury the mkd. stone alongside the stainless steel post and retain the mound of stone, N. of cor.</p> <hr/> <p>S. 89°57' E., on the S. bdy. of sec. 34.</p> <p>Over rolling and broken land.</p>
40.07	<p>The stan. 1/4 sec. cor. of sec. 34, monumented with a limestone, 18 x 6 x 5 ins., firmly set, 9 ins. in the ground, mkd. SC 1/4 on N. face, with a mound of stone, 3 ft. base, 1 ft. high, N. of cor.</p> <p>At the corner point</p> <p>Set a brass tablet, 3 1/2 ins. diam., 2 1/4 ins. stem, cemented in a drill hole in sandstone bedrock, with top mkd.</p>
	<p style="text-align: center;">SC T 33 N R 9 E <u>1/4 S 34</u></p> <p style="text-align: center;">2009</p> <p>Deposit a magnet, in a white plastic case, in the drill hole, beneath the brass tablet.</p> <p>Deposit the mkd. stone in the mound of stone, N. of cor.</p> <hr/> <p>S. 89°55' E., beginning new measurement.</p> <p>Over rolling and broken land.</p>
39.97	<p>The stan. cor. of secs. 34 and 35, determined on the S. side of a mound of stone, 3 ft. base, 1 ft. high, and is accepted as the best available evidence of the orig. cor. position. A limestone, 17 x 6 x 5 ins., was found lying loose nearby, mkd. SC on a side, and 2 and 4 grooves on adjacent sides.</p> <p>At the corner point</p>

Dependent Resurvey of a Portion of the Eighth Standard Parallel North
 (South Boundary),
 T. 33 N., R. 9 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Set a brass tablet, 3 1/2 ins. diam., 2 1/4 ins. stem, cemented in a drill hole in sandstone bedrock, with top mkd.</p> <p style="text-align: center;">SC T 33 N R 9 E <u>S 34 S 35</u></p> <p style="text-align: center;">2009</p> <p>Deposit a magnet, in a white plastic case, in the drill hole, beneath the brass tablet.</p> <p>Deposit the mkd. stone in the mound of stone, N. of cor.</p> <hr/> <p>S. 89°55' E., on the S. bdy. of sec. 35.</p> <p>Over rolling and broken land.</p>
38.56	Power line, bears S. 5° E. and N. 5° W.
40.575	Point for the stan. 1/4 sec. cor. of sec. 35, at proportionate dist., there is no remaining evidence of the orig. cor.
	<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 style="text-align: center;">SC T 33 N R 9 E <u>1/4 S 35</u></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>
46.94	W. right-of-way fence of U. S. Highway 89, barbed wire, 5 strand, parallels highway.
48.48	U. S. Highway 89, asphalt pavement, 44 ft. wide, bears N. 10° E. and S. 10° W.
50.02	E. right-of-way fence of U. S. Highway 89, barbed wire, 5 strand, parallels highway.
52.40	Hamblin Wash, 30 ft. wide, 12 ft. deep, drains South.
80.10	W. rim of Hamblin Ridge, a sandstone cliff, 25 ft. high, bears North and South.

Dependent Resurvey of a Portion of the Eighth Standard Parallel North
(South Boundary),

T. 33 N., R. 9 E., Gila and Salt River Meridian, Arizona

CHAINS	
81.15	<p>Point for the stan. cor. of secs. 35 and 36, at proportionate dist., there is no remaining evidence of the orig. cor.</p> <p>Set a brass tablet, 3 1/2 ins. diam., attached to a stainless steel rod, 9/16 in. diam., 12 ins. long, cemented flush in a drill hole in sandstone bedrock, with top mkd.</p> <div style="text-align: center;"> <p>SC</p> <p>T 33 N R 9 E</p> <p>S 35 S 36</p> <hr style="width: 50%; margin: auto;"/> <p>2009</p> </div> <p>Deposit a magnet, in a white plastic case, in the drill hole, beneath the brass tablet.</p> <p>From this cor. point, Angle Point 2, the northwest cor. of Tract 38, unsurveyed T. 32 N., R. 9 E., bears S. 6°46' E., 112.23 chs. dist., monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 10 ins. above ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. T32N R9E AP2 TR38 1990.</p> <p>Cor. is located on a sandstone shelf, 20 lks. E. of a sandstone ledge and 55 lks. W. of the top of Hamblin Ridge, a sandstone cliff, 25 ft. high, bears North and South.</p>
	<hr/> <p>S. 89°55' E., on the S. bdy. of sec. 36.</p>
	<p>Over rugged and broken land.</p>
17.80	<p>W. rim of sandstone cliff, 60 ft. high, bears S. 25° E. and N. 25° W.</p>
25.60	<p>W. rim of mesa, top sandstone ledge, bears S. 10° E. and N. 10° W.</p>
40.575	<p>The stan. 1/4 sec. cor. of sec. 36, monumented with a stainless steel post, 2 1/2 diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. SC T33N R9E 1/4 S36 2006.</p> <p>Add the marks 2009 to the brass cap.</p> <p>From this cor. point, Angle Point 1, the northeast cor. of Tract 37, unsurveyed T. 32 N., R. 9 E., bears S. 6°28' E., 112.11 chs. dist., monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 10 ins. above ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. T32N R9E AP1 TR37 1990.</p> <p>from which the 1990 accessories</p>

Dependent Resurvey of a Portion of the Eighth Standard Parallel North
(South Boundary),

T. 33 N., R. 9 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>The marks BXO, chiseled on a sandstone cliff, bears S. 3 1/2° E., 36.5 lks. dist.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>The area surveyed is located approximately twenty five miles northwest of Tube City, Arizona, within the Navajo Indian Reservation. The terrain is mostly rolling and broken. The drainage is south, with Hamblin Wash as the main drainage.</p> <p>The elevation varies from 4800 to 5400 feet above sea level. The soil is mostly sandy and sandy clay with areas of sandstone outcrops, ledges and cliffs. There is no timber, only scattered native brush and grasses.</p> <p>Principal access to the area is by way of U. S. Highway 89. There are numerous trail roads to permanent residents scattered throughout the townships. There are several livestock grazing areas. There is no mining activity in the townships.</p> <p>The mean magnetic declination of 11 1/2° E. was derived from the computer program GEOMAGIX, utilizing the World Magnetic Model for Epoch 2005 for the dates of survey.</p> <hr/>
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CERTIFICATE OF SURVEY

I, Jones Curtiss, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 10th day of February, 2009, I have dependently resurveyed a portion of the south boundary, T. 32 1/2 N., R. 8 E., and a portion of the Eighth Standard Parallel North (south boundary), T. 33 N., R. 9 E., 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.

October 15, 2009
(Date)

Jones Curtiss
(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 boundary of T. 32 1/2 N., R. 8 E., and a portion of the Eighth Standard Parallel North (south boundary), T. 33 N., R. 9 E., Gila and Salt River Meridian, in the State of Arizona, executed by Jones Curtiss, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

1/26/2010
(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 Tps. 32 1/2 and 33 N., Rs. 8 and 9 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____
(Date)~~

~~_____
(Chief Cadastral Surveyor of Arizona)~~