

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF
A PORTION OF THE FOURTH STANDARD PARALLEL NORTH (NORTH BOUNDARY),

TOWNSHIP 16 1/2 NORTH, RANGE 18 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

W. William Foster, Cadastral Surveyor

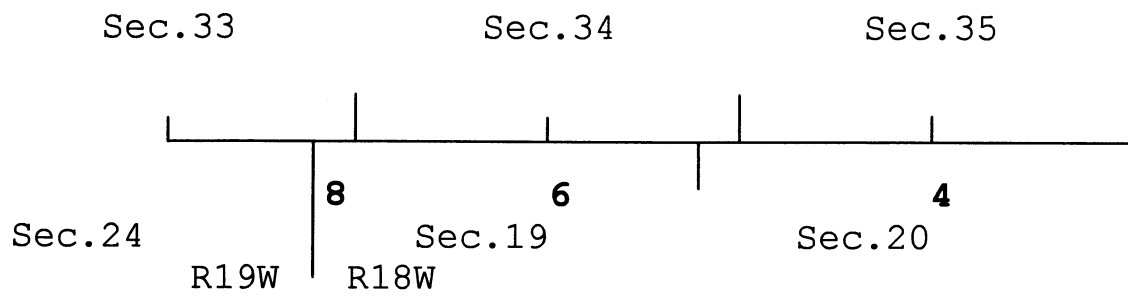
Under Special Instructions dated March 31, 2004, approved March 31, 2004, which provided for the surveys included under Group No. 933, and assignment instructions dated March 31, 2004.

Survey commenced September 8, 2004

Survey completed October 14, 2004

INDEX DIAGRAM

TOWNSHIP 16 1/2 NORTH RANGE 18 WEST
GILA AND SALT RIVER MERIDIAN, ARIZONA



T. 16 1/2 N., R. 18 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the Fourth Standard Parallel North (north boundary), Township 16 1/2 North, Range 18 West, Gila and Salt River Meridian, Arizona.

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

Albert Smith Jr. and Ray D. Armstrong surveyed the east, south and west boundaries and the subdivisional lines in 1915-16. William B. Alexander surveyed a portion of the Fourth Standard Parallel North (north boundary) in 1910.

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 March 31, 2004, for Group No. 933, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Topcon Hyper Plus 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 a tie to "A" order United States Geological Survey triangulation station B-391 1961, as published by the National Geodetic Survey, NAD 83 (1992). The geographic position of the standard corner of sections 35 and 36, Township 17 North, Range 18 West, is as follows:

Latitude: 34°48'28.86" N. Longitude: 114°09'26.63" W.

The mean magnetic declination is 12 3/4° E.

**Dependent Resurvey of a Portion of the
Fourth Standard Parallel North (North Boundary),
T. 16 1/2 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p align="center">Restoring the survey executed by William B. Alexander, in 1910</p> <hr/> <p>Beginning at the stan. cor. of secs. 35 and 36, T. 17 N., R. 18 W., monumented with a stone, 14 X 12 X 6 ins., firmly set, projecting 8 ins. above the ground, with SC scribed on S. face and 5 grooves on E. face and 1 groove on W. face. The stone is oriented incorrectly, should be rotated 180 degrees.</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 align="center">SC T 17 N R 18 W <u>S 35 S 36</u></p> <p align="center">2004</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post and bury orig. stone alongside the stainless steel post.</p> <p>Cor. is located 3 lks. W. of a fence cor., fences extend E. and S. 40° W.</p> <p>From this cor. point, U.S.C. & G.S. triangulation station (bench mark) "B-391 1961", bears S. 27°52' W. (forward bearing), 111.52 chs. dist., a brass disc, 3 ins. diam., cemented in a rock outcrop, 8 X 3 ft., with top mkd. B391 + 1961.</p> <p>N. 89°53' W., on the S. bdy. of sec. 35.</p> <p>Over rolling to level land, through scattered bunch grass and Palo Verde trees.</p> <p>8.35 An iron post, 5/8 in. diam., firmly set, projecting 5 ins. above the ground, with aluminum cap mkd. RLS 19319 CC 35 20 21 R18W T16 1/2N.</p> <p>31.15 Center line of railroad, east bound track, on a curve.</p> <p>35.15 Point for AP1, sec. 35, at intersection with the west right-of-way of the Burlington Northern Santa Fe (B.N.S.F.) railroad, on the Warm Springs Wilderness Area Boundary.</p> <p>Set an aluminum drive rod, 30 ins. long, 3/4 in. diam., 10 ins. in the ground, to bedrock, in a supporting mound of stone, 3 ft. base, to top, with aluminum cap mkd.</p>
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Dependent Resurvey of a Portion of the
 Fourth Standard Parallel North (North Boundary),
 T. 16 1/2 N., R. 18 W., Gila and Salt River Meridian, Arizona

CHAINS	
40.02	<p style="text-align: center;">T17N R18W WSWA AP1 / S35 <hr style="width: 10%; margin: auto;"/> S20 T16 1/2N 2004</p> <p>The stan. 1/4 sec. cor. of sec. 35, monumented with a stone, 18 X 9 X 6 ins., firmly set, projecting 10 ins. above the ground, with SC 1/4 scribed on N. face.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 14 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">SC T 17 N R 18 W 1/4 S 35 <hr style="width: 10%; margin: auto;"/> 2004</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post and bury orig. stone alongside the stainless steel post.</p> <p style="text-align: center;"><hr style="width: 20%; margin: auto;"/></p> <p>N. 89°54' W., beginning new measurement.</p> <p>Over rolling to level land, through scattered bunch grass and Palo Verde trees.</p>
40.00	<p>The stan. cor. of secs. 34 and 35, monumented with a stone, 24 X 10 X 9 ins., firmly set, projecting 12 ins. above the ground, scribed SC on N. face and 2 grooves on E. face and 4 grooves on W. face.</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 17 N R 18 W S 34 S 35 <hr style="width: 10%; margin: auto;"/> 2004</p>

**Dependent Resurvey of a Portion of the
Fourth Standard Parallel North (North Boundary),
T. 16 1/2 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>Deposit a magnet in a white plastic case at the base of the stainless steel post and bury orig. stone alongside the stainless steel post.</p> <hr/> <p>N. 89°53' W., on the S. bdy. of sec. 34.</p> <p>Over broken to level land, through scattered creosote, ocotillo and cholla cactus.</p>
8.14	<p>The closing cor. of secs. 19 and 20, monumented with an iron post, 2 ins. diam., firmly set, projecting 22 ins. above the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. S34 CC S19 S S20 S T16 1/2N R18W 1916.</p> <p>Add the marks T17N R18W 2004 to the brass cap.</p>
16.50	<p>Point for a witness point on the S. bdy. of sec. 34.</p> <p>Set an aluminum drive rod, 30 ins. long, 3/4 in. diam., 10 ins. in the ground, to bedrock, in a supporting mound of stone, 3 ft. base, to top, with aluminum cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> WP T 17 N R 18 W S 34 <hr style="width: 50px; margin: 0 auto;"/> 2004 </div>
27.01	<p>Point for a witness point on the S. bdy. of sec. 34.</p> <p>Set an aluminum drive rod, 30 ins. long, 3/4 in. diam., 6 ins. in the ground, to bedrock, in a supporting mound of stone, 3 ft. base, to top, with aluminum cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> WP T 17 N R 18 W S 34 <hr style="width: 50px; margin: 0 auto;"/> 2004 </div>
40.03	<p>The stan. 1/4 sec. cor. of sec. 34, monumented with a stone, 23 X 13 X 9 ins., firmly set, projecting 17 ins. above the ground, with SC 1/4 scribed on the N. face., and with an accessory mound of stone, 3 ft. base, 1 1/2 ft. high, N. of cor.</p> <p>At the corner point</p>

**Dependent Resurvey of a Portion of the
Fourth Standard Parallel North (North Boundary),
T. 16 1/2 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 4 ins. in the ground, in a supporting mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">SC T 17 N R 18 W 1/4 S 34</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">2004</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post and bury orig. stone alongside the stainless steel post.</p> <hr style="width: 30%; margin: auto;"/> <p>N. 89°56' W., beginning new measurement.</p> <p>Over broken to level, rocky land, through scattered creosote, ocotillo and cholla cactus.</p>
10.66	<p>Point for a witness point on the S. bdy. of sec. 34.</p> <p>Set an aluminum drive rod, 30 ins. long, 3/4 in. diam., 12 ins. in the ground, to bedrock, in a supporting mound of stone, 3 ft. base, to top, with aluminum cap mkd.</p> <p style="text-align: center;">WP T 17 N R 18 W S 34</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">2004</p>
27.07	<p>Point for a witness point on the S. bdy. of sec. 34.</p> <p>Set an aluminum drive rod, 30 ins. long, 3/4 in. diam., 6 ins. in the ground, to bedrock, in a supporting mound of stone, 3 ft. base, to top, with aluminum cap mkd.</p> <p style="text-align: center;">WP T 17 N R 18 W S 34</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">2004</p>
39.99	<p>The stan. cor. of secs. 33 and 34, monumented with a stone, 18 X 10 X 8 ins., firmly set, projecting 9 ins. above the ground, with SC scribed on N. face and 3 grooves on E. and W. faces.</p> <p>At the corner point</p>

**Dependent Resurvey of a Portion of the
Fourth Standard Parallel North (North Boundary),
T. 16 1/2 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 14 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.

SC
T 17 N R 18 W
S 33 | S 34

2004

Deposit a magnet in a white plastic case at the base of the stainless steel post and bury orig. stone alongside the stainless steel post.

N. 89°53' W., on the S. bdy. of sec. 33.

Over level rocky land, through scattered creosote, ocotillo and cholla cactus.

5.59 The closing cor. of secs. 19 and 24, T. 16 1/2 N., Rgs. 18 and 19 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 4 ins. above a supporting mound of stone, 4 ft. base, 2 1/2 ft. high, with brass cap mkd. CC S24 S19 R19W R18W T16 1/2 N 1916 and with an accessory mound of stone, 3 ft. base, 1 1/2 ft. high, S. of the cor.

Add the marks 2004 to the brass cap.

From this cor. point, the stan. 1/4 sec. cor. of sec. 33, bears N. 89°53' W., 34.44 chs. dist., monumented with a stone, 19 X 10 X 6 ins., firmly set, projecting 12 ins. above the ground, with SC 1/4 scribed on N. face.

At the corner point

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 16 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.

SC
T 17, N R 18 W
1/4 S 33

2004

Deposit a magnet in a white plastic case at the base of the stainless steel post and bury the orig. stone alongside the stainless steel post.

**Dependent Resurvey of a Portion of the
Fourth Standard Parallel North (North Boundary),
T. 16 1/2 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS

Build an accessory mound of stone, 3 ft. base, 1 1/2 ft. high,
N. of cor.

GENERAL DESCRIPTION

The Warm Springs Wilderness Area is located approximately 35 miles southwesterly of Kingman, AZ. Access is by way of I-40 and various trail roads. The B.N.S.F. railroad runs along a portion of the southeasterly boundary of the Warm Springs Wilderness area.

The terrain is mostly level and rolling through out the survey area. The vegetation consists mostly of creosote, Palo Verde, various species of Cholla cactus and yucca bush. There are several wild burros roaming in the area. There is mineral in section 35, T. 17 N., R. 18 W. A poor grade of limestone is scattered through the area.

The mean magnetic declination of $12\ 3/4^\circ$ 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.

**Description of the Warm Springs Wilderness Area Boundary,
T. 16 1/2 N., R. 18 W., Gila and Salt River Meridian, Arizona**

CHAINS

The following is for informational purposes only.

Beginning at the closing cor. of secs. 19 and 24, T. 16 1/2 N.,
Rs. 18 and 19 W., on the N. bdy. of the Tp.
thence, S. 89°53' E., 5.59 chs. dist., on the S. bdy. of sec. 33
to the stan. cor. of secs. 33 and 34;
thence, S. 89°56' E., 12.92 chs. dist., to a WP, on the S. bdy.
of sec. 34;
thence, S. 89°56' E., 16.41 chs. dist., to a WP, on the S. bdy.
of sec. 34;
thence, S. 89°56' E., 10.66 chs. dist., on the S. bdy. of sec.
34 to the stan. 1/4 sec. cor. of sec. 34;
thence, S. 89°53' E., 13.02 chs. dist., to a WP, on the S. bdy.
of sec. 34;
thence, S. 89°53' E., 10.51 chs. dist., to a WP, on the S. bdy.
of sec. 34;
thence, S. 89°53' E., 8.36 chs. dist., on the S. bdy. of sec.
34, to the closing cor. of secs. 19 and 20;
thence, S. 89°53' E., 8.14 chs. dist., on the S. bdy. of sec.
34, to the stan. cor. of secs. 34 and 35;
thence, S. 89°54' E., 40.00 chs. dist., on the S. bdy. of sec.
35, to the stan. 1/4 sec. cor. of sec. 35;
thence, S. 89°53' E., 4.87 chs. dist., on the S. bdy. of sec.
35, to Angle Point 1, sec. 35, on the N. bdy. of the Tp.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Joseph R. Salazar	Land Surveyor
Robert J. Lyle	Surveying Technician
Daniel T. Howarth	Surveying Technician

CERTIFICATE OF SURVEY

I, W. William Foster, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 31st day of March, 2004, I have dependently resurveyed a portion of the Fourth Stan. Par. N. (north boundary), T. 16 1/2 N., R. 18 W., 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.

W. William Foster is no longer assigned to this office and is unavailable for signature.

(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 Fourth Stan. Par. N. (north boundary), T. 16 1/2 N., R. 18 W., Gila and Salt River Meridian, in the State of Arizona, executed by W. William Foster, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

11/03/2006
(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 T. 16 1/2 N., R. 18 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____
(Date)~~

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