

# ORIGINAL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES  
OF THE

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SURVEY OF THE EIGHTH STANDARD PARALLEL NORTH,

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(SOUTH BOUNDARY),

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AND A PORTION OF THE SUBDIVISIONAL LINES,

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TOWNSHIP 33 NORTH, RANGE 31 EAST,

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Of the Gila and Salt River Meridian,  
In the State of Arizona

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EXECUTED BY

Leonard R. Sandoval, Cadastral Surveyor

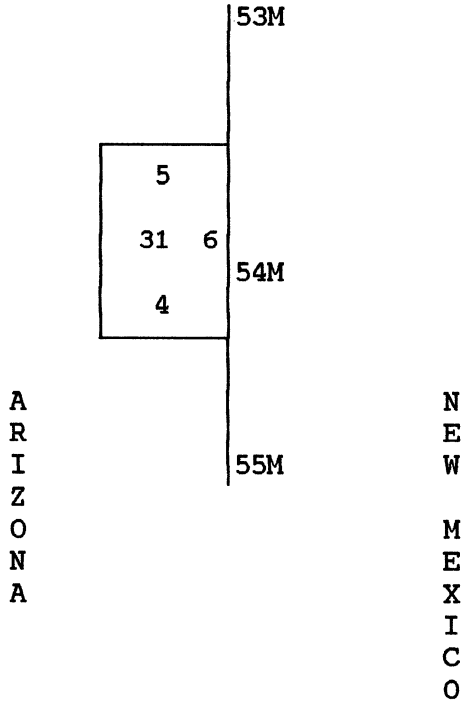
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Under Special Instructions dated and approved September 9, 1999, which provided for the surveys included under Group Number 844 and assignment instructions dated September 9, 1999.

Survey Commenced May 23, 2001  
Survey Completed July 15, 2002

INDEX DIAGRAM

TOWNSHIP 33 NORTH, RANGE 31 EAST,  
GILA AND SALT RIVER MERIDIAN, ARIZONA



## T. 33 N., R. 31 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>The following field notes describe the survey of the Eighth Standard Parallel North, (south boundary), and a portion of the subdivisional lines, T. 33 N., R. 31 E., Gila and Salt River Meridian, Arizona.</p> <p>The Arizona-New Mexico State Line was surveyed by Chandler Robbins in 1875. The Eighth Standard Parallel North, (south boundary), and a portion of the east boundary, T. 33 N., R. 30 E., was surveyed by Leonard R. Sandoval in 2001, concurrently under this same group. A portion of the Arizona-New Mexico State Line between the 53 Mile Post and an angle point on the 57th mile, unsurveyed Townships 32 and 33 North, Range 31 East, was dependently resurveyed by Leonard R. Sandoval in 2001-02, 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>, the Special Instructions dated September 9, 1999, for Group No. 844, Arizona.</p> <p>The true meridian directions and lengths of all lines were determined by real time kinematic and static global positioning system observations using Trimble 4400, 4700 and 5700 model receivers.</p> <p>Geodetic control was derived from first order or better U. S. Coast and Geodetic Survey triangulation stations "BEAUTIFUL 1951" and "LOHALI 1951", as published by the National Geodetic Survey, NAD83(1992). The geographic position of the southeast corner of the township is as follows:</p> <p>Latitude: 36°12'56.21" N. Longitude: 109°02'45.45" W.</p> <p>The mean magnetic declination is 11 1/2° E.</p>
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Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 31 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From the stan. cor. of Tps. 33 N., Rs. 30 and 31 E., monumented with a stainless steel post, 2 1/2 ins. diam., with brass cap, set and mkd. as described in the field notes of the survey of the Eighth Standard Parallel North, (south boundary), T. 33 N., R. 30 E., executed concurrently under this same group.</p>
	<p>East, on the S. bdy. of sec. 31.</p>
	<p>Over rolling and broken land.</p>
11.00	<p>Navajo Route 8080, a graded road, 20 ft. wide, bears NNE and SSW.</p>
40.00	<p>Point for the stan. 1/4 sec. cor. of sec. 31.</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</p>
	<p style="text-align: center;">T33N R31E</p>
	<p style="text-align: center;">1/4 S31</p>
	<p style="text-align: center;">2002</p>
	<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.</p>
	<p>Cor. is located 35 lks. W. of a power line, bears ESE and WNW.</p>
50.85	<p>Trail road, bears SSE and NNW.</p>
54.00	<p>Trail road, bears SE and NW.</p>
54.42	<p>Barbed wire fence, 5 strands, bears SE and NW; thence enter Yellow Valley.</p>
55.36	<p>Point for a closing cor. at intersection with the Arizona-New Mexico State Line.</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;">T33N</p>
	<p style="text-align: center;">R31E</p>
	<p style="text-align: center;">S31</p>
	<p style="text-align: center;">CC</p>
	<p style="text-align: center;">2002</p>
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>

Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 31 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From this cor. point, the 54 Mile Post on the Arizona-New Mexico State Line, bears N. 0°07' E., 30.39 chs. dist., monumented with a stainless steel post, 2 1/2 ins. diam., with brass cap, set and mkd. as described in the field notes of the dependent resurvey of a portion of the Arizona-New Mexico State Line between the 53 Mile Post and an angle point on the 57th mile, unsurveyed Townships 32 and 33 North, Range 31 East, executed concurrently under this same group.</p> <p>From this same cor. point, an angle point on the 55th mile on the Arizona-New Mexico State Line, bears S. 0°07' W., 41.45 chs. dist., monumented with a stainless steel post, 2 1/2 ins. diam., with brass cap, set and mkd. as described in the field notes of the dependent resurvey of a portion of the Arizona-New Mexico State Line between the 53 Mile Post and an angle point on the 57th mile, unsurveyed Townships 32 and 33 North, Range 31 East, executed concurrently under this same group.</p> <p>Land, rolling and broken. Soil, sandy and gravelly clay. Timber, ponderosa pine, blue spruce, piñon, juniper and Gambel's oak; undergrowth, brush and native grasses.</p>
	<p style="text-align: center;">Survey of a Portion of the Subdivisional Lines, T. 33 N., R. 31 E., Gila and Salt River Meridian, Arizona</p>
40.00	<p>From the cor. of secs. 25, 30, 31 and 36, on the W. bdy. of the Tp., monumented with a stainless steel post, 2 1/2 ins. diam., with brass cap, set and mkd. as described in the field notes of the survey of a portion of the east boundary, T. 33 N., R. 30 E., executed concurrently under this same group.</p> <p>Cor. is located 57 lks. S. and 92 lks. W. of a barbed wire fence, 5 strands, bears ESE and WNW.</p> <p>East, bet. secs. 30 and 31.</p> <p>Over rolling and broken land, on ascent from Upper Wheatfields valley.</p> <p>Point for the 1/4 sec. cor. of secs. 30 and 31.</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>

Survey of a Portion of the Subdivisional Lines,  
T. 33 N., R. 31 E., Gila and Salt River Meridian, Arizona

CHAINS	
55.49	<p style="text-align: center;">T33N R31E S30 1/4 — S31 2001</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.</p> <p>Cor. is located 15 lks. S. of a trail road, bears E. and W.</p> <p>Point for the closing cor. of secs. 30 and 31, at intersection with the Arizona-New Mexico State Line.</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;">T33N R31E S30 CC — S31 2002</p> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>From this cor. point, the southernmost angle point on the 54th mile of the Arizona-New Mexico State Line, bears S. 0°06' E., 4.58 chs. dist., monumented with a stainless steel post, 2 1/2 ins. diam., with brass cap, set and mkd. as described in the field notes of the dependent resurvey of a portion of the Arizona-New Mexico State Line between the 53 Mile Post and an angle point on the 57th mile, unsurveyed Townships 32 and 33 North, Range 31 East, executed concurrently under this same group.</p> <p>From this same cor. point, an angle point on the 54th mile of the Arizona-New Mexico State Line, bears N. 0°06' W., 10.29 chs. dist., monumented with a ponderosa pine stump as described and witnessed in the field notes of the dependent resurvey of a portion of the Arizona-New Mexico State Line between the 53 Mile Post and an angle point on the 57th mile, unsurveyed Townships 32 and 33 North, Range 31 East, executed concurrently under this same group.</p> <p>Land, rolling and broken. Soil, sandy and gravelly clay. Timber, ponderosa pine, blue spruce, piñon, juniper and Gambel's oak; undergrowth, brush and native grasses.</p>

Survey of a Portion of the Subdivisional Lines,  
T. 33 N., R. 31 E., Gila and Salt River Meridian, Arizona

## CHAINS

Point for the 1/4 sec. cor. of sec. 31 only, at midpoint on the E. bdy. of sec. 31, on the Arizona-New Mexico State Line.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

T33N |  
R31E |  
1/4 S31 |  
2002

Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.

From this cor. point, the 54 Mile Post on the Arizona-New Mexico State Line, bears S. 0°07' W., 9.61 chs. dist., hereinbefore described.

From this same cor. point, the southernmost angle point on the 54th mile of the Arizona-New Mexico State Line, bears N. 0°07' E., 35.42 chs. dist.

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GENERAL DESCRIPTION

The area surveyed is about 5 miles east of the community of Wheatfields, Arizona, on the Navajo Indian Reservation. The area is located in the western foothills of the Chuska Mountains. The land varies from gently rolling in the small valleys to rolling and broken in the hills. Drainage is westerly, with a few flowing creeks being present.

The elevation varies from 7400 to 8700 feet above sea level. The soil is sandy and gravelly clay with rock outcrops. The timber consists primarily of second growth ponderosa pine, blue spruce, piñon, juniper, Gambel's oak and aspen. Undergrowth consists of various brush and native grasses.

The main access to the area is provided by Navajo Route 8080, a graded road, which goes through the surveyed area. There are several scattered pastures for grazing livestock. There is no evidence of any current mining activity.

The mean magnetic declination of 11 1/2° E. was derived from the computer program GEOMAGIX utilizing the Regional Magnetic Field Model for Epoch 2000 for the dates of survey.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## FIELD ASSISTANTS

NAMES	CAPACITY
William F. Olver	Cadastral Surveyor
James L. Werdel	Cadastral Surveyor
Daniel Bryan	Engineering Technician
Wilfred Chee	Engineering Technician
Edward Clarke	Engineering Technician
Reuben Mason	Engineering Technician
Barney Woodie	Engineering Technician



CERTIFICATE OF SURVEY

I, Leonard R. Sandoval, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 9th day of September, 1999, I have surveyed the Eighth Standard Parallel North, (south boundary), and a portion of the subdivisional lines, Township 33 North, Range 31 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; and that said surveys have 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.

5/12/03  
(Date)

Leonard R. Sandoval  
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Arizona State Office  
Phoenix, Arizona

The foregoing field notes of the survey of the Eighth Standard Parallel North, (south boundary), and a portion of the subdivisional lines, Township 33 North, Range 31 East, Gila and Salt River Meridian, Arizona, executed by Leonard R. Sandoval, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

July 14, 2003  
(Date)

Kenny D. Rownter  
(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. 33 N., R. 31 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~\_\_\_\_\_  
(Date)~~

~~\_\_\_\_\_  
(Chief Cadastral Surveyor of Arizona)~~