

**ORIGINAL**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES  
OF THE

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SURVEY

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OF

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THE

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EIGHTH STANDARD

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PARALLEL NORTH,

---

(SOUTH BOUNDARY),

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TOWNSHIP 33 NORTH, RANGE 27 EAST,

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Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Jones Curtiss, 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 October 5, 1999  
Survey Completed October 12, 1999

INDEX DIAGRAM

TOWNSHIP 33 NORTH, RANGE 27 EAST,

GILA AND SALT RIVER MERIDIAN, ARIZONA

6	5	4	3	2	1
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## T. 33 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>The following field notes describe the survey of the Eighth Standard Parallel North, (south boundary), Township 33 North, Range 27 East, Gila and Salt River Meridian, Arizona.</p> <p>The Eighth Standard Parallel North, (south boundary), Township 33 North, Range 26 East, was surveyed by Leonard R. Sandoval in 1990. The east boundary of Township 33 North, Range 26 East, was surveyed by Leonard R. Sandoval in 1998-99.</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 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 and 4700 model receivers.</p> <p>Geodetic control was derived from first order 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 style="text-align: center;">Latitude: 36°12'56.21" N.      Longitude: 109°22'49.40" W.</p> <p>The mean magnetic declination is 12° E.</p>
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Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Beginning at the stan. cor. of Tps. 33 N., Rs. 26 and 27 E., monumented with a brass tablet, 3 1/4 ins. diam., set flush with the surface of sandstone bedrock, cemented in place, with top mkd. SC T33N R26E R27E S36 S31 1998 1990.</p>
	<p>Add the marks 1999 to the brass tablet.</p>
	<p>From this cor. point, a rebar, 5/8 in. diam., set flush with the surface of the ground, bears N. 48°03' W., 13.685 chs. dist., with aluminum cap mkd. NAVAJO LAND DEVELOPMENT 36.13 109.29 BLM GP715 EC20 1990.</p>
	<p>East, on the S. bdy. of sec. 31.</p>
	<p>Over rolling and broken land.</p>
31.90	<p>Wash, 15 ft. wide, 2 ft. deep, drains WSW.</p>
40.00	<p>Point for the stan. 1/4 sec. cor. of sec. 31.</p>
	<p>Set a brass tablet, 3 1/4 ins. diam., 2 1/2 ins. stem, cemented in place, in a drill hole, in sandstone bedrock, with top mkd.</p>
	<p style="text-align: center;">SC T33N R27E 1/4 S31 <hr/>1999</p>
	<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case in the drill hole beneath the brass tablet.</p>
80.00	<p>Point for the stan. cor. of secs. 31 and 32.</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 T33N R27E S31   S32 <hr/>1999</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>

Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Land, rolling and broken. Soil, sandy and rocky clay and sandstone outcrops. Timber, piñon and juniper; undergrowth, scattered brush and native grasses.</p> <hr/>
	<p>East, on the S. bdy. of sec. 32.</p>
	<p>Over rolling and broken land.</p>
36.10	<p>Trail road, bears SSE and NNW.</p>
40.00	<p>Point for the stan. 1/4 sec. cor. of sec. 32.</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 T33N R27E 1/4 S32 <hr/>1999</p>
	<p>from which</p>
	<p style="text-align: center;">A piñon, 7 ins. diam., bears N. 64 1/4° E., 72 lks. dist., mkd. 1/4 S32 SC BT.</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>
80.00	<p>Point for the stan. cor. of secs. 32 and 33.</p>
	<p>Set a brass tablet, 3 1/4 ins. diam., 2 1/2 ins. stem, cemented in place, in a drill hole, in sandstone bedrock, with top mkd.</p>
	<p style="text-align: center;">SC T33N R27E S32   S33 <hr/>1999</p>
	<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case in the drill hole beneath the brass tablet.</p>

Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Land, rolling and broken. Soil, sandy and rocky clay and sandstone outcrops. Timber, piñon and juniper; undergrowth, scattered brush and native grasses.</p>
	<p>East, on the S. bdy. of sec. 33.</p>
	<p>Over rolling and broken land.</p>
9.10	<p>Trail road, bears NNE and SSW.</p>
40.00	<p>Point for the stan. 1/4 sec. cor. of sec. 33.</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 R27E</p>
	<p style="text-align: center;">1/4 S33</p>
	<p style="text-align: center;">1999</p>
	<p>from which</p>
	<p style="text-align: center;">A piñon, 9 ins. diam., bears N. 5 3/4° E., 73 1/2 lks.</p>
	<p style="text-align: center;">dist., mkd. 1/4 S33 SC BT.</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>From this cor. point, third order U. S. Geological Survey triangulation station "PINON 1936", bears S. 42°33' E., 27.05 chs. dist., monumented with a standard benchmark brass tablet, 3 1/2 ins. diam., cemented in sandstone bedrock, with top mkd. PINON 1936.</p>
80.00	<p>Point for the stan. cor. of secs. 33 and 34.</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 R27E</p>
	<p style="text-align: center;">S33   S34</p>
	<p style="text-align: center;">1999</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>

Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Land, rolling and broken. Soil, sandy and rocky clay and sandstone outcrops. Timber, piñon and juniper; undergrowth, scattered brush and native grasses.</p> <hr/>
40.00	<p>East, on the S. bdy. of sec. 34.</p> <p>Over rolling land.</p> <p>Point for the stan. 1/4 sec. cor. of sec. 34.</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 T33N R27E 1/4 S34 <hr/>1999</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>
52.65	<p>Barbed wire fence, 5 strands, bears N. and S.</p>
80.00	<p>Point for the stan. cor. of secs. 34 and 35.</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 T33N R27E S34   S35 <hr/>1999</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>Land, rolling. Soil, sandy clay. Timber, piñon and juniper; undergrowth, moderate brush and native grasses.</p> <hr/>
	<p>East, on the S. bdy. of sec. 35.</p>
	<p>Over rolling land.</p>

Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	
40.00	<p>Point for the stan. 1/4 sec. cor. of sec. 35.</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 T33N R27E 1/4 S35 ----- 1999</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>
79.75	<p>NW right-of-way fence of Navajo Route 64, barbed wire, 5 strands, bears NE and SW.</p>
80.00	<p>Point for the stan. cor. of secs. 35 and 36.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., flush with the surface of the ground, with brass cap mkd.</p> <p style="text-align: center;">SC T33N R27E S35   S36 ----- 1999</p> <p>from which</p> <p>A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 24 ins. in the ground, for a reference monument, bears N. 10°00' E., 21.0 ft. dist., with brass cap mkd. T33N R27E S36 RM 21.0 FT. TO COR. 1999 and an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.</p> <p>A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 24 ins. in the ground, for a reference monument, bears N. 80°00' W., 16.0 ft. dist., with brass cap mkd. T33N R27E S35 RM 16.0 FT. TO COR. 1999 and an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post at the stan. sec. cor.</p> <p>Cor. is located 1.92 chs. W. of center of Navajo Route 64, asphalt pavement, 36 ft. wide, bears NE and SW.</p>



Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Land, rolling. Soil, sandy clay. Timber, piñon and juniper; undergrowth, moderate brush and native grasses.</p>
	<p>East, on the S. bdy. of sec. 36.</p>
	<p>Over rolling land.</p>
4.14	<p>SE right-of-way fence of Navajo Route 64, barbed wire, 5 strands, bears NE and SW.</p>
40.00	<p>Point for the stan. 1/4 sec. cor. of sec. 36.</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 R27E</p>
	<p style="text-align: center;">1/4 S36</p>
	<p style="text-align: center;">1999</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>
80.00	<p>Point for the stan. cor. of Tps. 33 N., Rs. 27 and 28 E.</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</p>
	<p style="text-align: center;">R27E   R28E</p>
	<p style="text-align: center;">S36   S31</p>
	<p style="text-align: center;">1999</p>
	<p>from which</p>
	<p style="text-align: center;">A piñon, 7 ins. diam., bears N. 16° W., 21 lks. dist., mkd. T33N R27E S36 SC BT.</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>

Survey of the Eighth Standard Parallel North, (South Boundary),  
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CHAINS	<p>Land, rolling. Soil, sandy clay. Timber, piñon and juniper; undergrowth, moderate brush and native grasses.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>The area surveyed is located approximately 6 miles northeast of the community of Chinle, Arizona. The terrain is rolling and broken. The drainage is southwesterly.</p> <p>The elevation varies from 6,100 to 6,900 feet above sea level. The soil is mostly sandy and rocky clay with sandstone outcrops in the western portion. The vegetation principally consists of sagebrush and native grasses, with piñon and juniper.</p> <p>Principal access to the township is provided by Navajo Route 64, asphalt pavement, which crosses the south boundary of section 36, extending northeast and southwest. Most of the area is used for grazing of livestock. There is no evidence of current mining activity.</p> <p>The mean magnetic declination of 12° E. was derived from the United States Geological Survey computer program GEOMAGIX utilizing the Regional Magnetic Field Model for Epoch 1995 for the dates of survey.</p> <hr/>
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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Daniel Bryan	Engineering Technician
Wilfred Chee	Engineering Technician
Edward Clarke	Engineering Technician
Reuben Mason	Engineering Technician
Barney Woodie	Engineering Technician

CERTIFICATE OF SURVEY

I, Jones Curtiss, 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), Township 33 North, Range 27 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 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.

November 27, 2001  
(Date)

Jones Curtiss  
(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), Township 33 North, Range 27 East, Gila and Salt River Meridian, Arizona, executed by Jones Curtiss, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

January 30, 2002  
(Date)

Kenny D Rawnskar  
(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. 27 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

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

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