



INDEX DIAGRAM

TOWNSHIP 33 NORTH, RANGE 26 EAST,

6	5	4	3	2	1
7	8	9	10	11	12
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T. 33 N., R. 26 E., Gila and Salt River Meridian, Arizona

## CHAINS

The following field notes describe the survey of the Eighth Standard Parallel North, along the south boundary of Township 33 North, Range 26 East, Gila and Salt River Meridian, Arizona.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated November 22, 1989, for Group No. 715, Arizona.

The boundaries and subdivisional lines of Township 6 North, Range 10 West, Navajo Special Meridian, were surveyed by Ehud N. Darling in 1869.

The directions of lines were determined by direct hour angle observations of the sun and refer to the true meridian. Distances and angles were measured using a LIETZ SET-4 total station instrument.

The geographic position of the standard corner of T. 33 N., Rs. 26 and 27 E., as determined from a tie to Electronic Control Point 20 is as follows:

Latitude: 36°12'56.19" N. Longitude: 109°29'13.47" W. NAD27

The mean magnetic declination, as taken from the 1985 magnetic declination map published by the U.S. Geological Survey, is 12 1/2° E.

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Survey of the Eighth Standard Parallel North,  
 Along the South Boundary of  
 T. 33 N., R. 26 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Beginning at the stan. cor. for T. 33 N., Rs. 25 and 26 E., monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. SC T33N R25E R26E S36 S31 1990.
	East, on the S. bdy. of sec. 31.
	Over nearly level land.
6.99	Barbed wire fence, 5 strands, bears N. and S.
7.20	Irrigation ditch, 5 lks. wide, 2 ft. deep, drains N.
16.41	Barbed wire fence, 5 strands, bears SSE and NNW.
17.40	Graded road, 30 lks. wide, bears SSE and NNW.
23.22	Barbed wire fence, 4 strands, bears ENE and WSW.
40.00	Point for the stan. 1/4 sec. cor. of sec. 31.  Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.  <div style="text-align: center;">                         SC                          T33N R26E                          1/4 S31  <hr style="width: 10%; margin: 0 auto;"/>                         1990                     </div> Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.
40.50	Barbed wire fence, 7 strands, bears ENE and WSW.
46.52	Barbed wire fence, 7 strands, bears SSE and NNW.
46.90	Trail road, bears SSE and NNW.
48.80	W. bank of Chinle Wash, 5 ft. high, bears SE and NW.
69.15	E. bank of Chinle Wash, 40 ft. high, bears SSE and NNW.  Thence enter rolling land.
80.00	Point for the stan. cor. of secs. 31 and 32.

Survey of the Eighth Standard Parallel North,  
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T. 33 N., R. 26 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">SC T33N R26E S31   S32 ----- 1990</p>
	Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.
	<p>Land, nearly level to rolling. Soil, sandy clay. Timber; salt cedar and scattered cottonwood; undergrowth, rabbitbrush, cacti, greasewood and native grasses.</p>
	East, on the S. bdy. of sec. 32.
	Over rolling land.
16.60	Graded road, 45 lks. wide, bears N. and S.
40.00	Point for the stan. 1/4 sec. cor. of sec. 32.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">SC T33N R26E 1/4 S32 ----- 1990</p>
	Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.
52.00	W. edge of small mesa, bears N. and S.
80.00	Point for the stan. cor. of secs. 32 and 33.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

Survey of the Eighth Standard Parallel North,  
 Along the South Boundary of  
 T. 33 N., R. 26 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">SC            T33N R26E            S32   S33            -----            1990</p> <p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Cor. is located on E. edge of small mesa, bears NNE and SSW.</p> <p>Land, rolling.            Soil, sandy clay.            No timber; rabbitbrush, cacti, greasewood and native grasses.</p> <hr/> <p>East, on the S. bdy. of sec. 33.</p> <p>Over rolling land.</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, encircled with a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">SC            T33N R26E            1/4 S33            -----            1990</p> <p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Cor. is located on W. edge of a wash, 45 lks. wide, 3 ft. deep, drains SW.</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>

Survey of the Eighth Standard Parallel North,  
 Along the South Boundary of  
 T. 33 N., R. 26 E., Gila and Salt River Meridian, Arizona

CHAINS	
	SC T33N R26E S33   S34 <hr style="width: 50%; margin: auto;"/> 1990
	Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.  From this cor. point, the NE cor. of a fenced grave site, 12 ft. square, bears S. 61° W., 31 lks. dist.  Land, rolling. Soil, sandy clay. No timber; rabbitbrush, sagebrush, cacti and native grasses.
	<hr/> East, on the S. bdy. of sec. 34.  Over rolling land.
39.50	W. edge of mesa, bears NE and SW.
40.00	Point for the stan. 1/4 sec. cor. of sec. 34.  Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	SC T33N R26E 1/4 S34 <hr style="width: 50%; margin: auto;"/> 1990
	Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.
42.10	Trail road, bears ESE on curve to the left.
80.00	Point for the stan. cor. of secs. 34 and 35.  Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, to bedrock, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

Survey of the Eighth Standard Parallel North,  
 Along the South Boundary of  
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CHAINS	
	<p style="text-align: center;">SC                      T33N R26E                      S34   S35  <hr style="width: 10%; margin: auto;"/>                     1990</p>
	<p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Land, rolling.                      Soil, sandy and rocky clay.                      Timber; dense juniper and sparse piñon; undergrowth, rabbitbrush, cacti and native grasses.</p> <hr/>
	<p>East, on the S. bdy. of sec. 35.</p> <p>Over rolling and broken land.</p>
<p>40.00</p>	<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 R26E                      1/4 S35  <hr style="width: 10%; margin: auto;"/>                     1990</p> <p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>
<p>80.00</p>	<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., 24 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">SC                      T33N R26E                      S35   S36  <hr style="width: 10%; margin: auto;"/>                     1990</p> <p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>



Survey of the Eighth Standard Parallel North,  
 Along the South Boundary of  
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CHAINS							
	<p>Land, rolling and broken.            Soil, sandy and rocky clay.            Timber; dense juniper and sparse piñon; undergrowth, rabbitbrush,            sagebrush, cacti and native grasses.</p> <hr/>						
	<p>East, on the S. bdy. of sec. 36.</p>						
	<p>Over rolling land.</p>						
7.65	<p>Trail road, bears ENE and WSW.</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.,            10 ins. in the ground, to bedrock, supported in a mound of stone,            3 ft. base, to top, with brass cap mkd.</p>						
	<table style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: center;">SC</td></tr> <tr><td style="text-align: center;">T33N R26E</td></tr> <tr><td style="text-align: center;">1/4 S36</td></tr> <tr><td style="text-align: center;">-----</td></tr> <tr><td style="text-align: center;">1990</td></tr> </table>	SC	T33N R26E	1/4 S36	-----	1990	
SC							
T33N R26E							
1/4 S36							
-----							
1990							
	<p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic            case beneath the stainless steel post.</p>						
80.00	<p>Point for the stan. cor. of T. 33 N., Rs. 26 and 27 E.</p>						
	<p>Set a brass tablet, 3 1/4 ins. diam., 3 ins. stem, in a drill            hole, cemented in place, in sandstone bedrock, flush with rock            surface, with top mkd.</p>						
	<table style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: center;">SC</td></tr> <tr><td style="text-align: center;">T33N</td></tr> <tr><td style="text-align: center;">R26E   R27E</td></tr> <tr><td style="text-align: center;">S36   S31</td></tr> <tr><td style="text-align: center;">-----</td></tr> <tr><td style="text-align: center;">1990</td></tr> </table>	SC	T33N	R26E   R27E	S36   S31	-----	1990
SC							
T33N							
R26E   R27E							
S36   S31							
-----							
1990							
	<p>Deposit a magnet enclosed in a 1 x 1 x 2 5/8 ins. white plastic            case beneath the brass tablet.</p>						

Survey of the Eighth Standard Parallel North,  
 Along the South Boundary of  
 T. 33 N., R. 26 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>From this cor. point, Electronic Control Point 20 - Latitude: 36°13'02.16" N., Longitude: 109°29'21.67" W. NAD27 - monumented with an aluminum tablet, 1 1/2 ins. diam., firmly set on a rebar in sandstone bedrock, projecting 1 in. above ground, with top mkd. NAVAJO LAND DEVELOPMENT 36 13 109 29, bears N. 48°02.5' W., 13.685 chs. dist.</p> <p>Add the mks. BLM GP715 EC-20 1990 to top.</p> <p>The geographic position of this point was determined by the technique of relative positioning utilizing the Motorola Golden Eagle Global Positioning System Satellite Surveyor. "GANADO" and "LOHALI", first order triangulation stations established by the U.S. Coast and Geodetic Survey, were used as control stations.</p> <p>Land, rolling.        Soil, sandy and rocky clay, with sandstone bedrock.        Timber; dense juniper and sparse piñon; undergrowth, rabbitbrush, sagebrush, cacti and native grasses.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>The land covered in this survey is located within the Navajo Indian Reservation, approximately 4 miles north of Chinle. The land in the westernmost mile is nearly level, transitioning to rolling land east of Chinle Wash; which is the principal drainage and drains North. The elevation ranges from 5,400 to 6,100 ft. above sea level.</p> <p>Access is provided by several graded roads and trail roads.</p> <p>The soil consists of sandy and rocky clay with some sandstone bedrock.</p> <p>There is sparse piñon and dense juniper in the eastern portion, and some salt cedar and cottonwood in the westernmost mile. There is cacti, rabbitbrush, greasewood and native grasses.</p> <p>The mean magnetic declination is 12 1/2° E, with no noticeable differences due to local attractions.</p> <hr/>
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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Jones Curtiss	Cadastral Survey Technician
Nelson Kinsel	Engineering Technician
Andrew Murphy	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 22nd day of November, 1989, I have surveyed the Eighth Standard Parallel North, along the south boundary of Township 33 North, Range 26 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, and in specific manner described in the foregoing field notes.

October 7, 1992  
(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, along the south boundary of Township 33 North, Range 26 East, Gila and Salt River Meridian, Arizona, executed by Leonard R. Sandoval, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

OCT 14 1992  
(Date)

James P. Kelly  
(Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

~~I Certify that the foregoing transcript of the field notes of the above described survey in T. 33 N., R. 26 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

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

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