

**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 20 EAST,

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

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EXECUTED BY

Jones Curtiss, Cadastral Surveyor

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Under Special Instructions dated and approved August 14, 2000, and Supplemental Special Instructions dated and approved January 22, 2001, which provided for the surveys included under Group Number 855 and assignment instructions dated August 14, 2000.

Survey Commenced June 6, 2001

Survey Completed July 18, 2001

## INDEX DIAGRAM

TOWNSHIP 33 NORTH, RANGE 20 EAST,

GILA AND SALT RIVER MERIDIAN, ARIZONA

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
8	8	7	6	4	4

## T. 33 N., R. 20 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 20 East, Gila and Salt River Meridian, Arizona.</p> <p>The Eighth Standard Parallel North, (south boundary), Township 33 North, Range 21 East, was surveyed by Jones Curtiss and Leonard R. Sandoval in 2000-01, 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 August 14, 2000, and the Supplemental Special Instructions dated January 22, 2001, for Group No. 855, 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 or better U. S. Coast and Geodetic Survey triangulation stations "BEAUTIFUL 1951" and "KEAMS 1951", and verified by a direct tie to first order U. S. Coast and Geodetic Survey triangulation station "WEPO 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°12'56.19" N.      Longitude: 110°07'54.75" 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. 20 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Beginning at the stan. cor. of Tps. 33 N., Rs. 20 and 21 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. 21 E., executed concurrently under this same group.</p> <p>West, on the S. bdy. of sec. 36.</p> <p>Over broken land, across canyons.</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 T33N R20E 1/4 S36 ----- 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>Thence over broken land, on ascent of main ridge.</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., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">SC T33N R20E S35   S36 ----- 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>Land, broken. Soil, rocky clay. Timber, piñon and juniper; undergrowth, brush and native grasses.</p>
	<p>West, on the S. bdy. of sec. 35.</p> <p>Over broken land, on final ascent of main ridge.</p>

Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 20 E., Gila and Salt River Meridian, Arizona

CHAINS	
4.00	Top of main ridge, bears NE and SW; thence over broken land, on steep descent of W. slope of main ridge, entering Oraibi Wash drainage.
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> <div style="text-align: center;"> <p>SC T33N R20E 1/4 S35</p> <hr style="width: 50px; margin: 0 auto;"/> <p>2001</p> </div> <p>from which</p> <p style="padding-left: 40px;">The marks X B0, chiseled on sandstone bedrock, bear N. 15 1/4° W., 1.02 chs. dist.</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 on a steep NE slope.</p> <p>From this cor. point, first order U. S. Coast and Geodetic Survey triangulation station, "WEPO 1951", bears S. 23°22' W., 43.70 chs. dist., monumented with a smooth brass tablet, 3 ins. diam., set flush in sandstone bedrock, cemented in place, with top unmarked, and witnessed by the two original reference monuments.</p> <p>Thence over broken land, across spur ridges.</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., 18 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>SC T33N R20E S34   S35</p> <hr style="width: 50px; margin: 0 auto;"/> <p>2001</p> </div> <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. 20 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Cor. is located 1.30 chs. E. of E. rim of a canyon, bears N. and S.</p> <p>Land, broken. Soil, rocky clay with sandstone outcrops. Timber, piñon and juniper; undergrowth, brush and native grasses.</p>
40.00	<p>West, on the S. bdy. of sec. 34.</p> <p>Over broken land, across two canyons and a spur ridge.</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 R20E 1/4 S34 ----- 2001</p> <p>from which</p> <p style="text-align: center;">The marks X B0, chiseled on sandstone bedrock, bear N. 19 1/4° W., 32 lks. dist.</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 on E. slope of a spur ridge, bears SSE and NNW; thence over broken land, across two spur ridges and two canyons.</p>
79.40	<p>Base of E. slope of a mesa, bears NNE and SSW.</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 T33N R20E S33   S34 ----- 2001</p>

Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 20 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>from which</p> <p>The marks X B0, chiseled atop a sandstone boulder, 16 x 12 x 6 ft. high, bear N. 10 3/4° E., 67 1/2 lks. dist.</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, broken. Soil, sandy and rocky clay with sandstone outcrops. Timber, piñon and juniper; undergrowth, brush and native grasses.</p>
40.00	<p>West, on the S. bdy. of sec. 33.</p> <p>Over broken land, across a mesa.</p> <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 T33N R20E 1/4 S33 ----- 2001</p>
80.00	<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>Point for the stan. cor. of secs. 32 and 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 T33N R20E S32   S33 ----- 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 at base of E. slope of a mesa, bears NNE and SSW; 4 lks. N. of N. edge of a sandstone boulder, 20 x 12 x 10 ft. high.</p>

Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 20 E., Gila and Salt River Meridian, Arizona

CHAINS	
40.00	<p>Land, broken. Soil, sandy and rocky clay with sandstone outcrops. Timber, piñon and juniper; undergrowth, brush and native grasses.</p> <hr/> <p>West, on the S. bdy. of sec. 32. Over broken land, across a mesa. 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> <p style="text-align: center;">SC T33N R20E 1/4 S32 ----- 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. Cor. is located 1.00 ch. N. of base of N. slope of a spur ridge, bears ESE and WNW; thence over gently rolling land, across mouth of a canyon.</p>
80.00	<p>Point for the stan. cor. of secs. 31 and 32. 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 R20E S31   S32 ----- 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. Land, broken to gently rolling. Soil, sandy and rocky clay with sandstone outcrops. Timber, piñon and juniper in E. half; undergrowth, scattered brush and native grasses.</p> <hr/> <p>West, on the S. bdy. of sec. 31. Over rolling land, across toe of a large ridge.</p>

Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 20 E., Gila and Salt River Meridian, Arizona

CHAINS	
31.90	Navajo Route 8066, a graded road, 23 ft. wide, bears NNE and SSW; thence over gently rolling land, in Oraibi Wash valley.
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> <div style="text-align: center;"> <p>SC T33N R20E 1/4 S31</p> <hr/> <p>2001</p> </div> <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 40 lks. E. of a trailroad, bears SSE and NNW.</p> <p>From this cor. point, a third order U. S. Geological Survey benchmark, monumented with a standard aluminum tablet, 3 ins. diam., set flush in sandstone bedrock, cemented in place, bears S. 16°16' E., 11.78 chs. dist., with top mkd. 6344 93 DOR 1967.</p>
69.15	The center of a steel water tank, 24 ft. diam., 13 ft. high, bears South, 2.20 chs. dist.
69.24	The pump shaft of a windmill, bears South, 1.81 chs. dist.
80.00	<p>Point for the stan. cor. of Tps. 33 N., Rs. 19 and 20 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> <div style="text-align: center;"> <p>SC T33N R19E   R20E S36   S31</p> <hr/> <p>2001</p> </div> <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 10 lks. W. and 15 lks. S. of left bank of a wash, 20 ft. wide, 20 ft. deep, drains NW into Oraibi Wash.</p>

Survey of the Eighth Standard Parallel North, (South Boundary),  
T. 33 N., R. 20 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>Land, rolling to gently rolling. Soil, sand and sandy clay. Timber, sparse piñon and juniper; undergrowth, scattered brush and native grasses.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>The area surveyed is approximately 8 miles north of the community of Piñon, and crosses the divide between Wepo and Oraibi Washes. The surveyed area ends just east of Oraibi Wash. Oraibi Wash valley contains gently rolling land. The remainder of the area is broken land with numerous canyons, ridges and mesas. The drainage in section 36 is southerly towards Wepo Wash. The remaining drainage is northerly towards Oraibi Wash.</p> <p>The elevation varies from 6,300 to 7,500 feet above sea level. The soil varies from sand and sandy clay in the valleys to rocky clay with sandstone outcrops in the higher country. The timber is confined to the higher canyons, ridges and mesa, and consists of healthy piñon and juniper. Other vegetation consists of brush and native grasses, becoming scattered in the valleys.</p> <p>Principal access to the township is provided by Navajo Route 8066, a graded road, which crosses the south boundary of section 31. There are a few trail roads leading to the bases of some ridges, but most of the surveyed area is only accessible by foot. Most of the area is used for the grazing of livestock. There is no evidence of current mining activity.</p> <p>The mean magnetic declination of 12° E. was derived from the computer program GEOMAGIX utilizing the Regional Magnetic Field Model for Epoch 2000 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
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, Jones Curtiss, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 14th day of August 2000, and Supplemental Special Instructions bearing date of the 22nd day of January, 2001, I have surveyed the Eighth Standard Parallel North, (south boundary), Township 33 North, Range 20 East, of the Gila and Salt River Meridian, in the state of Arizona, which is 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, Supplemental 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.

May 19, 2003  
(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 20 East, Gila and Salt River Meridian, Arizona, executed by Jones Curtiss, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

8/20/03  
(Date)

Stephen K Hansen  
Acting (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. 20 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

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

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