

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES
OF THE

SURVEY

OF

THE TENTH STANDARD PARALLEL NORTH,

(SOUTH BOUNDARY),

TOWNSHIP 41 NORTH, RANGE 23 EAST,

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Leonard R. Sandoval, Cadastral Surveyor

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 January 9, 2001

Survey Completed February 21, 2001

INDEX DIAGRAM

TOWNSHIP 41 NORTH, RANGE 23 EAST,
GILA AND SALT RIVER MERIDIAN, ARIZONA

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T. 41 N., R. 23 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the survey of the Tenth Standard Parallel North, (south boundary), Township 41 North, Range 23 East, Gila and Salt River Meridian, Arizona.

A portion of the west boundary of T. 41 N., R. 24 E., was surveyed by Leonard R. Sandoval in 2000-2001, concurrently under this same group. A portion of the Tenth Standard Parallel North, T. 41 N., R. 22 E., was surveyed by Leonard R. Sandoval in 2001, also concurrently under this same group.

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 September 9, 1999, for Group No. 844, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic and static global positioning system observations using Trimble 4400 and 4700 model receivers.

Geodetic control was derived from first order or better U. S. Coast and Geodetic Survey triangulation station "COMB 1951", as published by the National Geodetic Survey, NAD(1992). The geographic position of the closing corner of Tps. 40 and 41 N., R. 23 E. is as follows:

Latitude: 36°54'41.50" N. Longitude: 109°49'28.55" W.

The mean magnetic declination is 12° E.

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Survey of the Tenth Standard Parallel North, (South Boundary),
T. 41 N., R. 23 E.,
Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Beginning at the stan. cor. of Tps. 41 N., Rs. 22 and 23 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 a portion of the Tenth Standard Parallel North, (south boundary), T. 41 N., R. 22 E., executed concurrently under this same group.</p> <p>East, on the S. bdy. of sec. 31.</p> <p>Over rolling land.</p>
19.00	W. rim of a canyon, atop sandstone ledge, bears NNE and SSW, thence descend abruptly into the canyon.
20.10	Base of W. wall of same canyon, bears NNE and SSW, thence across the canyon.
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 T41N R23E 1/4 S31</p> <hr style="width: 50px; margin: auto;"/> <p>2001</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>
52.30	Base of E. wall of a canyon, bears NE and SW; thence ascend over rocky slope out of the canyon.
65.40	E. rim of same canyon, atop sandstone ledge, bears NNE and SSW; thence over rolling land.
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> <div style="text-align: center;"> <p>SC T41N R23E S31 S32</p> <hr style="width: 50px; margin: auto;"/> <p>2001</p> </div>

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Survey of the Tenth Standard Parallel North, (South Boundary),
T. 41 N., R. 23 E.,
Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>Land, rolling and broken. Soil, sandy and rocky clay with sandstone outcrops. Timber; scattered piñon and juniper; undergrowth, brush and native grasses.</p> <hr/> <p>East, on the S. bdy. of sec. 32.</p> <p>Over rolling land.</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., 18 ins. in sandstone bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">SC T41N R23E 1/4 S32 <hr/>2001</p> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>Cor. is located 80 lks. W. of the E. rim of a mesa, bears NNE and SSW; thence descend over rugged and broken land into Cane Valley.</p>
77.50	<p>Trail road, bears NE and SW; thence over nearly level land across Cane Valley.</p>
80.00	<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 T41N R23E S32 S33 <hr/>2001</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 Tenth Standard Parallel North, (South Boundary),
 T. 41 N., R. 23 E.,
 Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Land, rolling, rugged and broken. Soil, sandy and rocky clay with sandstone outcrops. Timber, scattered piñon and juniper; undergrowth, brush and native grasses.</p>
	<p>East, on the S. bdy. of sec. 33.</p>
	<p>Over nearly level land across Cane Valley.</p>
5.90	<p>Wash, 50 ft. wide, 4 ft. deep, drains NNE.</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 T41N R23E 1/4 S33 <hr style="width: 10%; margin: auto;"/> 2001</p>
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>
	<p>Cor. is located on NW slope of a small hill.</p>
54.70	<p>Base of E. slope of Cane Valley, bears NNE and SSW; thence ascend over steep rocky W. slope of Comb Ridge.</p>
72.30	<p>Top of Comb Ridge, a prominent sandstone ridge, bears NE and SW; thence descend over rocky E. slope.</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 T41N R23E S33 S34 <hr style="width: 10%; margin: auto;"/> 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>

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Survey of the Tenth Standard Parallel North, (South Boundary),
T. 41 N., R. 23 E.,
Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Land, rugged and broken. Soil, sandy and rocky clay with sandstone outcrops. Timber, scattered piñon and juniper; undergrowth, brush and native grasses.</p> <hr/> <p>East, on the S. bdy. of sec. 34.</p> <p>Descend over rugged and broken E. slope of Comb Ridge.</p>
31.10	Wash, 15 ft. wide, 5 ft. deep, drains SW, at the base of the E. slope of Comb Ridge; thence over rolling and broken land.
40.00	Point for the stan. 1/4 sec. cor. of sec. 34.
	<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 T41N R23E 1/4 S34 <hr/>2001</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> <p>Cor. is located 1.15 chs. W. of a trail road, bears NNE and SSW.</p>
49.50	Rocky ridge, bears NE and SW.
59.70	Wash, 10 ft. wide, 4 ft. deep, drains SSW, at bottom of rocky ravine.
66.75	Trail road, bears N. and S.; thence ascend over W. slope of a ridge.
80.00	Point for the stan. cor. of secs. 34 and 35.
	<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 T41N R23E S34 S35 <hr/>2001</p>

Survey of the Tenth Standard Parallel North, (South Boundary),
 T. 41 N., R. 23 E.,
 Gila and Salt River Meridian, Arizona

CHAINS															
	<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. W. of top of narrow ridge, bears NE and SW.</p> <p>Land, rugged and broken. Soil, sandy and rocky clay with sandstone outcrops. Timber, scattered piñon and juniper; undergrowth, brush and native grasses.</p>														
	<p>East, on the S. bdy. of sec. 35.</p>														
	<p>Descend along SE slope of ridge.</p>														
25.60	<p>Top of sandstone cliff, bears NE and SW; thence descend abruptly into rolling land.</p>														
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 sandstone bedrock, with brass cap mkd.</p>														
	<p style="text-align: center;">SC T41N R23E 1/4 S35 <hr style="width: 10%; margin: auto;"/> 2001</p>														
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>														
47.20	<p>Point for the closing cor. of Tps. 40 and 41 N., R. 23 E., at intersection with the W. bdy. of T. 41 N., R. 24 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;"> <table style="border-collapse: collapse; margin: auto;"> <tr> <td style="border-right: 1px solid black; padding: 2px;">T41N</td> <td style="padding: 2px;">T41N</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">R23E</td> <td style="padding: 2px;">R24E</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">S35</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">CC</td> <td style="padding: 2px;">S31</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">S 2</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">T40N R23E</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;"></td> <td style="padding: 2px;">2001</td> </tr> </table> </p>	T41N	T41N	R23E	R24E	S35		CC	S31	S 2		T40N R23E			2001
T41N	T41N														
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Survey of the Tenth Standard Parallel North, (South Boundary),
T. 41 N., R. 23 E.,
Gila and Salt River Meridian, Arizona

CHAINS	<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 stan. cor. of T. 41 N., R. 24 E. only, bears South, 15.30 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 survey of the Tenth Standard Parallel North, (south boundary), T. 41 N., R. 24 E., executed concurrently under this same group.</p> <p>From this same cor. point, the 1/4 sec. cor. of sec. 31 only, T. 41 N., R. 24 E., bears North, 24.70 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 survey of a portion of the west boundary, T. 41 N., R. 24 E., executed concurrently under this same group.</p> <p>From this same cor. point, a first order U. S. Coast and Geodetic Survey triangulation station "COMB 1951", bears N. 12°15' E., 125.00 chs. dist., monumented with a standard brass tablet, 3 1/2 ins. diam., set flush on a limestone outcrop, cemented in place, with top partial defaced and faintly mkd. COMB 1951 and a triangle.</p> <p>Land, rolling and broken. Soil, sandy and rocky clay with sandstone outcrops. Timber, scattered juniper; undergrowth, brush and native grasses.</p> <hr/>
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T. 41 N., R. 23 E., Gila and Salt River Meridian, Arizona

CHAINS

GENERAL DESCRIPTION

The area surveyed is approximately 4 miles north of Dennehotso, Arizona, on the Navajo Indian Reservation. The terrain consists of mostly rolling rocky mesas, hills and ridges. The drainage is northeast in Cane Valley and southwest on the east side of Comb Ridge, the dominant terrain feature, a hogback sandstone ridge.

The elevation varies from 4900 to 5700 feet above sea level. The soil is mostly sandy and rocky clay and sandstone bedrock and outcrops. The timber is scattered piñon and juniper, mostly on Comb Ridge. Undergrowth principally consists of sagebrush, scattered rabbitbrush, greasewood, and native grasses.

Principal access to the area is provided by a graded road, which is located in Cane Valley with various trail roads throughout. Much of the area is used for grazing livestock. There is no mining activity in the township.

The mean magnetic declination is 12° E, as 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
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 Tenth Standard Parallel North, (south boundary), Township 41 North, Range 23 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.

3-26-03
(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 Tenth Standard Parallel North, (south boundary), Township 41 North, Range 23 East, Gila and Salt River Meridian, Arizona, executed by Leonard R. Sandoval, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

8/19/03
(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 surveys in T. 41 N., R. 23 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____
(Date)~~

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