

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES
OF THE

SURVEY

OF A PORTION OF

THE TENTH STANDARD PARALLEL NORTH,

(SOUTH BOUNDARY),

TOWNSHIP 41 NORTH, RANGE 22 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 22 EAST,

GILA AND SALT RIVER MERIDIAN, ARIZONA

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T. 41 N., R. 22 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>The following field notes describe the survey of a portion of the Tenth Standard Parallel North, (south boundary), Township 41 North, Range 22 East, Gila and Salt River Meridian, Arizona.</p> <p>The Third Guide Meridian East, in Township 31 North, was surveyed by Van L. White in 1911. In 1989-90 Leonard R. Sandoval surveyed the Eighth Standard Parallel North, along the south boundary of T. 33 N., R. 24 E. The cor. of secs. 6 and 7 only, T. 31 N., R. 13 E., on the Third Guide Meridian East was utilized as the origination point for that survey and described to pertain to T. 31 N., R. 13 E. only, to match the depiction on Protraction Diagram No. 42.</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 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.</p> <p>Geodetic control was derived from first order or better U. S. Coast and Geodetic Survey triangulation stations "BEAUTIFUL 1951" and "COMB 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°54'41.50" N. Longitude: 109°54'26.89" W.</p> <p>The mean magnetic declination is 12° E.</p>
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Survey of a Portion of the Tenth Standard Parallel North,
(South Boundary), T. 41 N., R. 22 E.,
Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Beginning at the point for the stan. cor. of secs. 35 and 36, T. 41 N., R. 22 E., established at 55 miles (4400.00 chs.) North and 59 miles (4720.00 chs.) East of the cor. of secs. 6 and 7 only, T. 31 N., R. 13 E., on the Third Guide Meridian East, monumented with an iron post, 3 ins. diam., firmly set, projecting 5 ins. above ground, with brass cap mkd. T31N T31N R12E R13E S1 S6 S7 S12 1911; the 1/4 sec. cor. of sec. 6 only, T. 31 N., R. 13 E., and the cor. of Tps. 31 and 32 N., R. 13 E. only, on the Third Guide Meridian East, were searched for and determined to be lost as purported in the 1989-90 survey.</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 R22E 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>Cor. is located near the bottom of sandstone gorge, 1.20 chs. W. of the bottom of wash, 6 ft. wide, 3 ft. deep, drains NNW.</p>
	<p>East, on the S. bdy. of sec. 36.</p>
	<p>Over rugged and broken land.</p>
3.90	<p>Base of sandstone cliff, bears NNE and SSW; thence ascend abruptly out of the gorge.</p>
5.20	<p>E. rim of sandstone cliff, bears N. and S.</p>
6.20	<p>Top of sandstone ridge, bears SSE and NNW; thence continue ascending over rocky W. slope of mesa.</p>
21.40	<p>W. rim of mesa, top of sandstone ledge, bears SSE and NNW; thence over rolling land.</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>

Survey of a Portion of the Tenth Standard Parallel North,
(South Boundary), T. 41 N., R. 22 E.,
Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">SC T41N R22E 1/4 S36 ----- 2001</p> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>
57.80	Top of rocky knoll, bears NE and SW; thence gradually descend over rolling land.
80.00	<p>Point for the stan. cor. of Tps. 41 N., Rs. 22 and 23 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 T41N R22E R23E S36 S31 ----- 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>From this cor. point, first order U. S. Coast and Geodetic Survey triangulation station "COMB 1951", bears N. 72°46' E., 412.20 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/>

T. 41 N., R. 22 E., Gila and Salt River Meridian, Arizona

CHAINS	GENERAL DESCRIPTION
	<p>The area surveyed is approximately 6 miles northwest of Dennehotso, Arizona, on the Navajo Indian Reservation. The terrain consists mostly of rolling rocky mesas, hills and ridges. The drainage is northeast.</p> <p>The elevation varies from 5100 to 5350 feet above sea level. The soil is mostly sandy clay and sandstone bedrock and outcrops. The timber is scattered piñon and juniper. Undergrowth principally consists of sagebrush, scattered rabbitbrush, greasewood, and native grasses.</p> <p>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 area.</p> <p>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.</p>

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 a portion of the Tenth Standard Parallel North, (south boundary), Township 41 North, Range 22 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 a portion of the Tenth Standard Parallel North, (south boundary), Township 41 North, Range 22 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. 22 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~