ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

SURVEY

OF

THE

EIGHTH STANDARD

PARALLEL NORTH,

(SOUTH BOUNDARY),

TOWNSHIP 33 NORTH, RANGE 28 EAST,

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Jones Curtiss, 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 October 13, 1999
Survey Completed June 8, 2000

INDEX DIAGRAM

TOWNSHIP 33 NORTH, RANGE 28 EAST,

GILA AND SALT RIVER MERIDIAN, ARIZONA

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T. 33 N., R. 28 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the survey of the Eighth Standard Parallel North, (south boundary), Township 33 North, Range 28 East, Gila and Salt River Meridian, Arizona.

The Eighth Standard Parallel North, (south boundary), Township 33 North, Range 27 East, was surveyed by Jones Curtiss, in 1999, 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 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.

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:

Latitude: 36°12'56.21" N. Longitude: 109°16'22.93" W.

The mean magnetic declination is 11 3/4° E.

Survey of the Eighth Standard Parallel North, (South Boundary),
T. 33 N., R. 28 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Beginning at the stan. cor. of Tps. 33 N., Rs. 27 and 28 E., monumented with a stainless steel post, 2 1/2 ins. diam., with brass cap, set, mkd. and witnessed as described in the field notes of the survey of the Eighth Standard Parallel North, (south boundary), executed concurrently under this same group.
	East, on the S. bdy. of sec. 31.
	Over rolling land.
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. SC T33N R28E 1/4 S31 1999
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.
54.40	W. rim of Canyon Del Muerto, bears SE and NW; thence descend abruptly to canyon floor.
69.60	Trail road, bears NNE and SSW.
70.08	Barbed wire fence, 4 strands, bears NNE and SSW.
76.30	Tsaile Creek, 30 ft. wide, 1 ft. deep, flows S.
80.00	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. SC T33N R28E S31 | S32 1999
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.

Survey of the Eighth Standard Parallel North, (South Boundary),
T. 33 N., R. 28 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Land, rolling and broken. Soil, sandy and rocky clay and sandstone outcrops. Timber, piñon and juniper; undergrowth, brush and native grasses.
	East, on the S. bdy. of sec. 32.
	Over rolling land on gradual ascent of Sheep Point Canyon.
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. SC T33N R28E 1/4 S32 1999
	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 45 lks. N. of a wash, 5 ft. wide, 1 ft. deep, drains W.; thence ascend over broken N. slope of Sheep Point Canyon.
70.80	N. rim of Sheep Point Canyon, bears N. and S.; thence over rolling land.
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., 14 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd. SC T33N R28E S32 | S33 1999
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.

Survey of the Eighth Standard Parallel North, (South Boundary),
T. 33 N., R. 28 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Land, rolling and broken. Soil, sand, sandy and rocky clay, and sandstone outcrops. Timber, piñon and juniper; undergrowth, brush and native grasses.
	East, on the S. bdy. of sec. 33.
	Over rolling land.
40.00	Point for the stan. 1/4 sec. cor. of sec. 33.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd. SC T33N R28E 1/4 S33 1999
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.
80.00	Point for the stan. cor. of secs. 33 and 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 R28E S33 | S34 1999
	from which A piñon, 7 ins. diam., bears N. 64 1/2° W., 80 lks. dist., mkd. T33N R28E S33 SC BT.
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.
	Land, rolling. Soil, sandy and rocky clay. Timber, piñon and juniper; undergrowth, brush and native grasses.
	East, on the S. bdy. of sec. 34.
	Over rolling land.

Survey of the Eighth Standard Parallel North, (South Boundary),
T. 33 N., R. 28 E., Gila and Salt River Meridian, Arizona

CHAINS	
13.14	Barbed wire fence, 6 strands, bears SE and NW.
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, encircled with a collar of stone, with brass cap mkd.
	SC T33N R28E 1/4 S34 1999
	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 in a ravine, 8 lks. W. of W. bank of a wash, 6 ft. wide, 1 ft. deep, drains N.
58.73	Barbed wire fence, 5 strands, bears NE and SW.
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., 24 ins. in the ground, with brass cap mkd.
	SC T33N R28E S34 | S35 1999
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.
	Land, rolling. Soil, sandy and rocky clay. Timber, ponderosa pine, piñon and juniper; undergrowth, brush and native grasses.
	East, on the S. bdy. of sec. 35.
	Over rolling land.
11.80	Trail road, bears NE and SW.
40.00	Point for the stan. 1/4 sec. cor. of sec. 35.

Survey of the Eighth Standard Parallel North, (South Boundary),
T. 33 N., R. 28 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. SC T33N R28E 1/4 S35 1999
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.
49.78	Barbed wire fence, 5 strands, bears NE and SW.
80.00	Point for the stan. cor. of secs. 35 and 36.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd. SC T33N R28E S35 | S36 1999
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.
	Land, rolling. Soil, sandy clay. Timber, ponderosa pine, piñon and juniper; undergrowth, brush and native grasses.
	East, on the S. bdy. of sec. 36.
	Over rolling land.
11.96	Barbed wire fence, 5 strands, bears SE and NW.
40.00	Point for the stan. 1/4 sec. cor. of sec. 36.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd. SC T33N R28E 1/4 S36 1999

Survey of the Eighth Standard Parallel North, (South Boundary),
T. 33 N., R. 28 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post.
55.40	Barbed wire fence, 6 strands, with a trail road along the NW side, bears NE and SW; thence over rolling to broken land on descent of SE slope of a ridge.
80.00	Point for the stan. cor. of Tps. 33 N., Rs. 28 and 29 E. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd. SC T33N R28E | R29E S36 | S31 1999 from which The marks X BO, chiseled on the E. face of a sandstone outcrop, 10 x 10 x 3 ft. high, bear N. 37 1/4° W., 29 1/2 lks. dist. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white colored plastic case beneath the stainless steel post. From this cor. point, first order U. S. Geological Survey triangulation station "SEZNINI 1936", as published by the National Geodetic Survey, bears S. 15°20.6′ W., 385.79 chs. dist., monumented with a standard benchmark brass tablet, 3 3/4 ins. diam., cemented in place, flush with surface of bedrock, with top mkd. SEZNINI 1936. Land, rolling and broken. Soil, sandy and rocky clay and sandstone outcrops. Timber, ponderosa pine, piñon and juniper; undergrowth, brush and native grasses.

T. 33 N., R. 28 E., Gila and Salt River Meridian, Arizona

CHAINS

GENERAL DESCRIPTION

The area surveyed is approximately 11 miles northeast of the community of Chinle, Arizona. The terrain is mostly rolling and broken, with very deep and steep-walled Canyon Del Muerto and Sheep Point Canyon being crossed in sections 31 and 32. The drainage is southerly in the west portion and northerly in the east portion. The principal drainage is Tsaile Creek in Canyon Del Muerto, which was flowing during the survey.

The elevation varies from 6,000 to 7,400 feet above sea level. The soil is mostly sandy and rocky clay, with sandstone outcrops principally along the canyons. The vegetation principally consists of sagebrush, oak brush and native grasses, with sparse to moderate piñon and juniper. There are some stands of ponderosa pine and manmade clearings in sections 34, 35, and 36.

Principal access to the township is provided by trail roads. Most of the area is used for grazing of livestock. There is no evidence of current mining activity.

The mean magnetic declination of 11 3/4° E. was derived from the United States Geological Survey computer program GEOMAGIX utilizing the World Magnetic 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, 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 28 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 28 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 Larrabee (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. 28 E., ~~Gila and~~ Salt River Meridian, Arizona, is a true copy of the original field notes.

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