

ORIGINAL

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BOOK 5333

R-5333

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES
OF THE

SURVEY OF THE SOUTH BOUNDARY,

IDENTICAL WITH THE SEVENTH STANDARD PARALLEL NORTH,

THROUGH RANGE 29 EAST,

OF

TOWNSHIP 29 NORTH, RANGE 29 EAST

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

EXECUTED BY

Kevin R. DeRossett, Cadastral Surveyor

Under special instructions dated November 27, 1987, approved November 30, 1987,
which provided for the surveys included under Group Number 699 and assignment
instructions dated March 28, 1988.

Survey commenced August 11, 1988

Survey completed November 16, 1988

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BOOK 5333

T. 29 N., R. 29 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes are those of the survey of the south boundary, identical with the Seventh Standard Parallel North, through Range 29 East, of Township 29 North, Range 29 East, Gila and Salt River Meridian, Arizona.

The township boundaries and subdivisional lines of Township 2 North, Range 7 West, of the Navajo Special Meridian, were surveyed by E.N. Darling in 1869.

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 27, 1987, for Group No. 699, Arizona.

The directions of lines were determined by hour angle observations of the sun and refer to the true meridian. Distances and angles were measured using a Zeiss ELTA-3 total station instrument.

The geographic position of the standard corner of T. 29 N., Rs. 29 and 30 E., as determined from a tie made to Electronic Control Point 3, hereinafter described, is as follows:

Latitude: 35°51'55.79" N., Longitude: 109°10'23.12" W. NAD27

The geographic position of Electronic Control Point 3, hereinafter described, was determined by the technique of relative positioning utilizing the Motorola Golden Eagle Geodetic Positioning System Satellite Surveyor. "COY" and "GANADO", first order triangulation stations established by the U.S. Coast and Geodetic Survey, were used as the control stations. Elevation and coordinates refer to the top of the monument.

Elevation	Latitude	Longitude
7,612 ft.	35°51'58.86" N.	109°10'06.72" W. NAD27

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

Survey of the South Boundary of T. 29 N., R. 29 E.,
 Identical with the Seventh Stan. Par. N., through R. 29 E.,
 Gila and Salt River Meridian, Arizona.

CHAINS

Beginning at the point for the stan. cor. of T. 29 N., Rs. 28 and 29 E., established at latitude of 35°51'55.85" N. and longitude of 109°16'47.81" W. (NAD27, which is 24 miles N. of the closing cor. of the Sixth Standard Parallel North on the Arizona/New Mexico State Line, and 54 miles E. of the stan. cor. of T. 29 N., Rs. 19 and 20 E.

At the cor. point

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

SC	
T29N	
R28E	R29E
S36	S31
1988	

from which

A ponderosa pine, 14 ins. diam., bears N. 52 1/2° E., 99 lks. dist., mkd. T29N R29E S31 SC BT.

A ponderosa pine, 15 ins. diam., bears N. 49 3/4° W., 34 1/2 lks. dist., mkd. T29N R28E S36 SC BT.

Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.

From this cor. point, Electronic Control Point 4, monumented with a stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 21 ins. in the ground, in a concrete collar, 1 ft. diam., flush with the surface of the ground, with brass cap mkd. EC-4 GRP 699 1988, bears S. 83°55' E., 2.04 chs. dist. This control point has latitude of 35°51'55.71" N. and longitude of 109°16'46.18" W. (NAD27) and elevation of 7932 ft. above mean sea level, as determined by the technique of relative positioning utilizing the Motorola Golden Eagle Geodetic Positioning System Satellite Surveyor. "COY" and "GANADO", first order triangulation stations established by the U.S. Coast and Geodetic Survey, were used as the control stations.

East, on the S. bdy. of sec. 31.

Over mountainous land.

Survey of the South Boundary of T. 29 N., R. 29 E.,
Identical with the Seventh Stan. Par. N., through R. 29 E.,
Gila and Salt River Meridian, Arizona.

CHAINS	
7.70	Wash, 15 lks. wide, 3 ft. deep, drains SSW.
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., 20 ins. in the ground, in a mound of stone, 2 ft. base, to top, with brass cap mkd. <div style="text-align: center;"> <p>SC T29N R29E 1/4 S31</p> <hr style="width: 10%; margin: auto;"/> <p>1988</p> </div> <p>from which</p> <p style="margin-left: 40px;">A ponderosa pine, 13 ins. diam., bears N. 80° E., 76 1/2 lks. dist., mkd. 1/4 S31 SC BT.</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>
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, encircled with a collar of stone, with brass cap mkd. <div style="text-align: center;"> <p>SC T29N R29E S31 S32</p> <hr style="width: 10%; margin: auto;"/> <p>1988</p> </div> <p>from which</p> <p style="margin-left: 40px;">A ponderosa pine, 29 ins. diam., bears N. 69 1/2° E., 72 1/2 lks. dist., mkd. T29N R29E S32 SC BT.</p> <p style="margin-left: 40px;">A ponderosa pine, 8 ins. diam., bears N. 1 3/4° W., 81 1/2 lks. dist., mkd. T29N R29E S31 SC BT.</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>

Survey of the South Boundary of T. 29 N., R. 29 E.,
 Identical with the Seventh Stan. Par. N., through R. 29 E.,
 Gila and Salt River Meridian, Arizona.

CHAINS	
	<p>Land, mountainous. Soil, rocky and sandy clay. Timber, ponderosa pine, piñon, juniper, scattered douglas fir and Gambel's oak; undergrowth, cliffrose, native grasses and scattered cacti.</p> <hr/> <p>East, on the S. bdy. of sec. 32.</p> <p>Over mountainous land.</p>
20.20	Graded road, 36 lks. wide, bears NNE and SSW.
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., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;"> SC T29N R29E 1/4 S32 <hr style="width: 10%; margin: auto;"/> 1988 </p> <p>from which</p> <p style="padding-left: 40px;">A ponderosa pine, 26 ins. diam., bears N. 54 3/4° E., 117 lks. dist., mkd. 1/4 S32 SC BT.</p> <p style="padding-left: 40px;">A ponderosa pine, 14 ins. diam., bears N. 25 3/4° W., 119 lks. dist., mkd. X BT.</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>
59.55	Trail road, bears NNE and SSW.
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>

Survey of the South Boundary of T. 29 N., R. 29 E.,
 Identical with the Seventh Stan. Par. N., through R. 29 E.,
 Gila and Salt River Meridian, Arizona.

CHAINS	
	<p style="text-align: center;">SC T29N R29E S32 S33 ----- 1988</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Cor. is located in a nearly level meadow.</p> <p>Land, mountainous. Soil, rocky and sandy clay. Timber, ponderosa pine, piñon, juniper, scattered douglas fir and Gambel's oak; undergrowth, cliffrose, native grasses and scattered cacti.</p> <hr/> <p>East, on the S. bdy. of sec. 33.</p> <p>Over mountainous 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., 20 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p>
80.00	<p style="text-align: center;">SC T29N R29E 1/4 S33 ----- 1988</p> <p>from which</p> <p style="text-align: center;">A ponderosa pine, 10 ins. diam., bears N. 10 3/4° W., 72 1/2 lks. dist., mkd. 1/4 S33 SC BT.</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Cor. is located on a ridge, 1 ch. wide, bears SE and NW.</p> <p>Point for the stan. cor. of secs. 33 and 34.</p>

Survey of the South Boundary of T. 29 N., R. 29 E.,
 Identical with the Seventh Stan. Par. N., through R. 29 E.,
 Gila and Salt River Meridian, Arizona.

CHAINS	<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 T29N R29E S33 S34 <hr style="width: 50px; margin: 0 auto;"/> 1988</p> </div> <p>from which</p> <p style="padding-left: 40px;">A ponderosa pine, 11 ins. diam., bears N. 20 1/2° E., 171 1/2 lks. dist., mkd. T29N R29E S34 SC BT.</p> <p style="padding-left: 40px;">A ponderosa pine, 11 ins. diam., bears N. 18 3/4° W., 161 1/2 lks. dist., mkd. T29N R29E S33 SC BT.</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Cor. is located 40 lks. W. of a trail road, bears N. and S.</p> <p>Land, mountainous. Soil, rocky and sandy clay. Timber, ponderosa pine, piñon, juniper, scattered douglas fir and Gambel's oak; undergrowth, cliffrose, native grasses and scattered cacti.</p> <hr style="width: 80%; margin: 10px auto;"/> <p>East, on the S. bdy. of sec. 34.</p> <p>Over mountainous land.</p> <p>40.00 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., 22 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>SC T29N R29E 1/4 S34 <hr style="width: 50px; margin: 0 auto;"/> 1988</p> </div>
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Survey of the South Boundary of T. 29 N., R. 29 E.,
 Identical with the Seventh Stan. Par. N., through R. 29 E.,
 Gila and Salt River Meridian, Arizona.

CHAINS						
	<p>from which</p> <p>A ponderosa pine, 8 ins. diam., bears N. 63 1/4° E., 98 1/2 lks. dist., mkd. X BT.</p> <p>A ponderosa pine, 10 ins. diam., bears N. 21 1/2° W., 29 1/2 lks. dist., mkd. 1/4 S34 SC BT.</p> <p>Deposit a magnet 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 secs. 34 and 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> <table style="margin-left: auto; margin-right: auto;"> <tr><td>SC</td></tr> <tr><td>T29N R29E</td></tr> <tr><td>S34 S35</td></tr> <tr><td>-----</td></tr> <tr><td>1988</td></tr> </table>	SC	T29N R29E	S34 S35	-----	1988
SC						
T29N R29E						
S34 S35						

1988						
	<p>from which</p> <p>A ponderosa pine, 6 ins. diam., bears N. 76 1/4° E., 99 lks. dist., mkd. X BT.</p> <p>A ponderosa pine, 18 ins. diam., bears N. 12 1/2° W., 79 lks. dist., mkd. T29N R29E S34 SC BT.</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Land, mountainous. Soil, sandy clay. Timber, ponderosa pine, piñon, juniper, scattered douglas fir and Gambel's oak; undergrowth, native grasses.</p>					
	<p>East, on the S. bdy. of sec. 35.</p>					
	<p>Over mountainous land.</p>					
17.50	<p>Graded road, 36 lks. wide, bears N. and S.</p>					
40.00	<p>Point for the stan. 1/4 sec. cor. of sec. 35.</p>					

Survey of the South Boundary of T. 29 N., R. 29 E.,
Identical with the Seventh Stan. Par. N., through R. 29 E.,
Gila and Salt River Meridian, Arizona.

CHAINS	
	<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 T29N R29E 1/4 S35 <hr/>1988</p> <p>from which</p> <p style="padding-left: 40px;">A ponderosa pine, 12 ins. diam., bears N. 33 1/2° E., 125 lks. dist., mkd. X BT.</p> <p style="padding-left: 40px;">A ponderosa pine, 15 ins. diam., bears N. 16 1/2° W., 110 1/2 lks. dist., mkd. 1/4 S35 SC BT.</p> <p>Deposit a magnet 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 secs. 35 and 36.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">SC T29N R29E S35 S36 <hr/>1988</p> <p>from which</p> <p style="padding-left: 40px;">A ponderosa pine, 11 ins. diam., bears N. 64 3/4° E., 53 1/2 lks. dist., mkd. T29N R29E S36 SC BT.</p> <p style="padding-left: 40px;">A ponderosa pine, 14 ins. diam., bears N. 48° W., 48 1/2 lks. dist., mkd. T29N R29E S35 SC BT.</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Land, mountainous. Soil, rocky and sandy clay. Timber, ponderosa pine, juniper, scattered douglas fir and Gambel's oak; undergrowth, native grasses.</p> <hr/>

Survey of the South Boundary of T. 29 N., R. 29 E.,
 Identical with the Seventh Stan. Par. N., through R. 29 E.,
 Gila and Salt River Meridian, Arizona.

CHAINS	
	<p>East, on the S. bdy. of sec. 36.</p> <p>Over mountainous 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 exposed sandstone bedrock, with brass cap mkd.</p>
	<p style="text-align: center;">SC T29N R29E 1/4 S36 <hr style="width: 10%; margin: auto;"/> 1988</p>
	<p>from which</p>
	<p style="padding-left: 40px;">A ponderosa pine, 8 ins. diam., bears N. 35 1/2° E., 159 lks. dist., mkd. X BT.</p>
	<p style="padding-left: 40px;">A piñon, 16 ins. diam., bears N. 29 3/4° W., 133 1/2 lks. dist., mkd. 1/4 S36 SC BT.</p>
	<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>
42.00	<p>Enter rolling land.</p>
66.50	<p>Graded road, 36 lks. wide, bears NNE and SSW.</p>
80.00	<p>Point for the stan. cor. of T. 29 N., Rs. 29 and 30 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 T29N R29E R30E S36 S31 <hr style="width: 10%; margin: auto;"/> 1988</p>
	<p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p>

Survey of the South Boundary of T. 29 N., R. 29 E.,
Identical with the Seventh Stan. Par. N., through R. 29 E.,
Gila and Salt River Meridian, Arizona.

CHAINS

From this cor. point, Electronic Control Point 3, monumented with an aluminum post, 36 ins. long, 3/4 in. diam., set 28 ins. in the ground, in a concrete collar, 1 ft. diam., flush with the surface of the ground, with magnetized aluminum cap mkd. EC-3 GRP 699 1988, bears N. 77°04' E., 20.99 chs. dist.

Land, mountainous to rolling.

Soil, rocky and sandy clay.

Timber, ponderosa pine, juniper, scattered douglas fir and Gambel's oak; undergrowth, cliffrose, sagebrush and native grasses.

GENERAL DESCRIPTION

The land traversed by this survey is located within the Navajo Indian Reservation, approximately 10 miles NNW of Fort Defiance. All but the extreme eastern portion is mountainous land, with the remainder being rolling land. The elevation ranges from 7600 to 8080 ft. above mean sea level.

Access is provided by graded and trail roads.

The soil consists of sandy clay and rocky clay, with scattered bedrock outcrops.

The timber consists of ponderosa pine, piñon and juniper, with scattered douglas fir and Gambel's oak. The undergrowth consists of sagebrush, cliffrose and native grasses, with scattered cacti.

The mean magnetic declination is 12 1/2° E. with no noticeable differences due to local attraction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Michael Francisco	Navajo Engineering Technician II
Reuben Mason	Navajo Engineering Technician II
Andrew Murphy	Navajo Engineering Technician II
Barney Woodie	Navajo Engineering Technician II

CERTIFICATE OF SURVEY

I, Kevin R. DeRossett, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 27th day of November, 1987, I have surveyed the south boundary, identical with a portion of the seventh standard parallel north, of Township 29 North, Range 29 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.

Kevin R. DeRossett is no longer assigned to this office and is not available for signature.

July 29, 1991

(Date)

William F. Oliver

(Project Manager)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Arizona State Office
Phoenix, Arizona

The foregoing field notes of the survey of the south boundary, identical with a portion of the seventh standard parallel north, of Township 29 North, Range 29 East, Gila and Salt River Meridian, Arizona, executed by Kevin R. DeRossett, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

OCT 29 1991

(Date)

Joe A. Stewart

(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. 29 N., R. 29 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~