

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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NINTH STANDARD

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PARALLEL NORTH,

---

(SOUTH BOUNDARY),

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TOWNSHIP 37 NORTH, RANGE 24 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 February 17, 1998, which provided for the surveys included under Group Number 822 and assignment instructions dated February 17, 1998.

Survey Commenced April 28, 1998

Survey Completed May 4, 1998

INDEX DIAGRAM

TOWNSHIP 37 NORTH, RANGE 24 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
4	4	5	6	7	8

T. 37 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the survey of the Ninth Standard Parallel North, (south boundary), Township 37 North, Range 24 East, Gila and Salt River Meridian, Arizona.

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 February 17, 1998, for Group No. 822, Arizona.

The directions of all lines were determined, and distances measured, by the technique of differential positioning using Trimble Navigation 4400 Series Global Positioning System receivers utilizing the Real-Time Kinematic technique.

The geographic position of the southeast corner of the township was determined by the technique of differential positioning using the Ashtech M-Series Geodetic Positioning System. First order U. S. Coast and Geodetic Survey triangulation stations "KAYENTA 1951" and "LOHALI 1951" were used as control stations. The geographic position is as follows:

Lat.: 36°33'48.832" N. Long.: 109°41'48.119" W. NAD83(1992)

The mean magnetic declination is 12 1/2° E.

Survey of the Ninth Standard Parallel North, (South Boundary),  
T. 37 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Beginning at the stan. cor. of Tps. 37 N., Rs. 23 and 24 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 Ninth Standard Parallel North, (south boundary), T. 37 N., R. 23 E., executed concurrently under this same group.</p> <p>East, on the S. bdy. of sec. 31.</p> <p>Over gently rolling land.</p>
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., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">SC T37N R24E 1/4 S31 ----- 1998</p> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p>
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., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">SC T37N R24E S31   S32 ----- 1998</p> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>Land, gently rolling. Soil, sandy clay. No timber; scattered brush and native grasses.</p>
10.40	<p>East, on the S. bdy. of sec. 32.</p> <p>Over gently rolling land.</p> <p>Navajo Route 18, a graded road, 20 ft. wide, bears N. and S.</p>

Survey of the Ninth Standard Parallel North, (South Boundary),  
T. 37 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	
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., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">SC T37N R24E 1/4 S32</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">1998</p> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</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., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">SC T37N R24E S32   S33</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">1998</p> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>Land, gently rolling. Soil, sandy clay. No timber; scattered brush and native grasses.</p>
	<p>East, on the S. bdy. of sec. 33.</p> <p>Over gently rolling land.</p>
17.40	<p>Trading Post Wash, 20 ft. wide, 7 ft. deep, drains NE.</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., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">SC T37N R24E 1/4 S33</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">1998</p>

Survey of the Ninth Standard Parallel North, (South Boundary),  
T. 37 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
56.00	Navajo Route 8090, a graded road, 20 ft. wide, bears NE and SW.
76.00	Trail road, bears ESE and WNW.
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., 26 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">SC T37N R24E S33   S34</p> <hr style="width: 10%; margin: auto;"/>
	1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
	Land, gently rolling.
	Soil, sandy clay.
	No timber; scattered brush and native grasses.
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	East, on the S. bdy. of sec. 34.
	Over gently rolling land.
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., 26 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">SC T37N R24E 1/4 S34</p> <hr style="width: 10%; margin: auto;"/>
	1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
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., 26 ins. in the ground, with brass cap mkd.

Survey of the Ninth Standard Parallel North, (South Boundary),  
T. 37 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">SC T37N R24E S34   S35 <hr/>1998</p> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>Land, gently rolling. Soil, sandy clay. No timber; scattered brush and native grasses.</p>
40.00	<p>East, on the S. bdy. of sec. 35.</p> <p>Over gently rolling land.</p> <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., 26 ins. in the ground, with brass cap mkd.</p>
80.00	<p style="text-align: center;">SC T37N R24E 1/4 S35 <hr/>1998</p> <p>Raise a mound of stone, 3 ft. base, 1 1/2 ft. high, N. of cor.</p> <p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <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., 26 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">SC T37N R24E S35   S36 <hr/>1998</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 Ninth Standard Parallel North, (South Boundary),  
T. 37 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Land, gently rolling. Soil, sandy and rocky clay. No timber; scattered brush and native grasses.</p> <hr/>
	<p>East, on the S. bdy. of sec. 36.</p> <p>Over gently 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., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">SC T37N R24E 1/4 S36</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">1998</p>
65.95	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>Trail road, bears N. and S.</p>
80.00	<p>Point for the stan. cor. of Tps. 37 N., Rs. 24 and 25 E.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">SC T37N R24E   R25E S36   S31</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">1998</p>
	<p>Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.</p> <p>Land, gently rolling. Soil, sandy clay. No timber; scattered brush and native grasses.</p> <hr/>

T. 37 N., R. 24 E., Gila and Salt River Meridian, Arizona

CHAINS	GENERAL DESCRIPTION
	<p>The area surveyed is within the Navajo Indian Reservation, approximately 13 miles north-northeast of the community of Rough Rock, Arizona. The terrain is gently rolling. The drainage is northerly, with the main drainage being Trading Post Wash.</p> <p>The elevation varies from 5,500 to 5,600 feet above sea level. The soil is mostly sandy clay, and the vegetation principally consists of scattered brush and native grasses.</p> <p>Principal access to the township is provided by Navajo Routes 18 and 8090, which are graded roads in sections 32 and 33, and trail roads. Most of the area is used for grazing of livestock. There is no evidence of current mining activity.</p> <p>The mean magnetic declination of 12 1/2° E. was derived from the United States Geological Survey computer program GEOMAGIX utilizing the Regional Magnetic Field Model for Epoch 1995 for the dates of survey.</p>

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## FIELD ASSISTANTS

NAMES	CAPACITY
William F. Olver	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 17th day of February 1998, I have surveyed the Ninth Standard Parallel North, (south boundary), Township 37 North, Range 24 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.

February 9, 1999  
(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 Ninth Standard Parallel North, (south boundary), Township 37 North, Range 24 East, Gila and Salt River Meridian, Arizona, executed by Jones Curtiss, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

April 5, 1999  
(Date)

Lenny D. Lavin  
(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. 37 N., R. 24 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

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

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