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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

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DEPENDENT RESURVEY

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OF A

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PORTION OF THE

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SUBDIVISIONAL LINES,

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TOWNSHIP 26 NORTH, RANGE 31 EAST,

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

EXECUTED BY

Leonard R. Sandoval, Cadastral Surveyor

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Under Special Instructions dated and approved May 23, 1986, which provided for the surveys included under Group Number 680 and Assignment Instructions dated July 31, 1996.

Survey Commenced September 10, 1996Survey Completed October 31, 1996

INDEX DIAGRAM

TOWNSHIP 26 NORTH, RANGE 31 EAST,

GILA AND SALT RIVER MERIDIAN, ARIZONA

|         |    |    |    |    |    |
|---------|----|----|----|----|----|
| 6       | 5  | 4  | 3  | 2  | 1  |
| 7<br>6  | 8  | 9  | 10 | 11 | 12 |
| 18<br>4 | 17 | 16 | 15 | 14 | 13 |
| 19      | 20 | 21 | 22 | 23 | 24 |
| 30      | 29 | 28 | 27 | 26 | 25 |
| 31      | 32 | 33 | 34 | 35 | 36 |

## T. 26 N., R. 31 E., Gila and Salt River Meridian, Arizona

## CHAINS

The following field notes describe the dependent resurvey of a portion of the subdivisional lines, Township 26 North, Range 31 East, of the Gila and Salt River Meridian, Arizona.

The boundaries and subdivision of section 7 were surveyed by Paul L. Reeves in 1978. A portion of the subdivisional lines were dependently resurveyed, and the survey of the subdivisional lines of the township was completed by Richard S. Kaiser and James L. Werdel in 1984.

Responding to a memorandum from the Director, Navajo Area Office, Bureau of Indian Affairs, dated July 8, 1996, requesting remonumentation of certain corners that were destroyed on the Navajo Indian Reservation in the state of Arizona, the Bureau of Land Management has undertaken the dependent resurvey described in the following field notes.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, the Special Instructions dated May 23, 1986, and the Assignment Instructions dated July 31, 1996, for Group No. 680, Arizona.

Preliminary to the resurvey the lines of the previous surveys were retraced and search was made for certain corners and other calls of the record. Identified corners were remonumented in their original positions. The retracement data were thoroughly verified and only the true line field notes are given herein.

The directions of all lines were determined by direct hour angle observations on the sun, and refer to the true meridian. Distances and angles were measured with a Lietz SET4B, a total station instrument.

The mean magnetic declination is 12° E.

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 26 N., R. 31 E., Gila and Salt River Meridian, Arizona

| CHAINS |   |
|--------|---|
|        | <p style="text-align: center;">Restoring the survey<br/>executed by Richard S. Kaiser and James L. Werdel in 1984</p> <hr style="width: 20%; margin: auto;"/>   |
| 31.79  | <p>Beginning at the cor. of secs. 17, 18, 19, and 20, monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. T26N R31E S17 S18 S19 S20 1984, with a steel fence post set nearby.</p> <p>Add the mks. 1996 to the brass cap.</p> <p>N. 0°08' E., bet. secs. 17 and 18.</p> <p>Over gently rolling land.</p>   |
|        | <p>Point selected for a witness point on the line bet. secs. 17 and 18.</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;">WP<br/>T26N R31E<br/>S18   S17<br/>1996</p>  |
|        | <p>Deposit a magnet in a 1 x 1 x 2 ins. white plastic case beneath the stainless steel post.</p> <p>Cor. is located in a woven wire and barbed wire fence, bears NE and SW, on SE side of Window Rock Airport.</p>  |
| 39.99  | <p>The 1/4 sec. cor. of secs. 17 and 18, determined from the original bearing object, there being no remaining evidence of the original stainless steel post or magnetic deposit:</p> <p style="text-align: center;">The center of the concrete base of a destroyed windsock pole, 2 1/2 ft. square, with steel anchor bolts, bears N. 89°56' E., 1.76 chs. dist.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 6 ins. below the surface of the ground, with brass cap mkd.</p> <p style="text-align: center;">T26N R31E<br/>1/4<br/>S18   S17<br/>1996</p> |

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 26 N., R. 31 E., Gila and Salt River Meridian, Arizona

| CHAINS |   |
|--------|---|
|        | <p>Deposit a magnet in a 1 x 1 x 2 ins. white plastic case beneath the stainless steel post.</p> <p>Cor. is located 25 lks. S. of SE edge of the asphalt surfaced runway of Window Rock Airport, 76 ft. wide, bears NE and SW.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°08' E., beginning new measurement.</p> <p>Over gently rolling land.</p>   |
| 5.15   | <p>Point selected for a witness point on the line bet. secs. 17 and 18.</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;">WP<br/>T26N R31E<br/>S18   S17<br/>1996</p>  |
| 34.80  | <p>Deposit a magnet in a 1 x 1 x 2 ins. white plastic case beneath the stainless steel post.</p> <p>Cor. is located in a woven wire and barbed wire fence, bears NE and SW, on NW side of Window Rock Airport.</p> <p>S. right-of-way fence of Arizona State Highway 264, chainlink and barbed wire, bears ENE and WSW.</p>   |
| 36.30  | <p>Center of Arizona State Highway 264, asphalt surfaced, 70 ft. wide, bears ENE and WSW.</p>   |
| 37.75  | <p>N. right-of-way fence of Arizona State Highway 264, barbed wire, 5 strands, bears ENE and WSW.</p>   |
| 39.97  | <p>The cor. of secs. 7, 8, 17, and 18, monumented with a magnet in a shattered black polystyrene breakaway base, set 4 1/2 ft. below the surface of the ground, corroborated by a stainless steel post found and returned by a Navajo Nation Tribal survey crew, 2 1/2 ins. diam., 25 ins. long, without a base or flanges, with brass cap mkd. T26N R31E S7 S8 S17 S18 1984, and further corroborated by a deposit of broken glass, (Record: stainless steel post, 28 ins. long, 2 1/2 ins. diam. ... Deposit a magnet in a 1 x 1 x 2 5/8 ins. orange colored plastic case beneath the stainless steel post), and is accepted as the best available evidence of the position of the 1984 cor.</p> <p>At the cor. point</p> |

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 26 N., R. 31 E., Gila and Salt River Meridian, Arizona

## CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam.,  
12 ins. below the surface of the ground, with brass cap mkd.

|           |     |
|-----------|-----|
| T26N R31E |     |
| S 7       | S 8 |
| -----     |     |
| S18       | S17 |
| 1996      |     |

from which the 1984 bearing objects

An aluminum disc, 3 ins. diam., set flush in a concrete  
abutment on the E. side of a cattle guard, bears  
S. 27 1/4° E., 2.24 chs. dist., (Record: S. 27 1/2° E.),  
mkd. ARIZONA HIGHWAY DEPT. ELEV 6742.02 662X45 1977,  
(Record: AZ HW DEPT ELEV 6747.02 662X45 1977).

A 60-penny nail, set in a telephone pole, bears S. 33° W.,  
3.18 chs. dist. (Record: S. 33 1/2° W., 3.17 chs.)

and new bearing objects

A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set  
26 ins. in the ground, for a reference monument, bears  
S. 40°00' E., 155.0 ft. dist., with brass cap mkd. T26N  
R31E S17 RM 155.0 FT TO COR 1996, and an arrow pointing to  
the cor. Deposit a magnet in a 1 x 1 x 2 ins. white  
plastic case beneath the stainless steel post.

A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set  
26 ins. in the ground, for a reference monument, bears  
S. 30°00' W., 190.0 ft. dist., with brass cap mkd. T26N  
R31E S18 RM 190.0 FT TO COR 1996, and an arrow pointing to  
the cor. Deposit a magnet in a 1 x 1 x 2 ins. white  
plastic case beneath the stainless steel post.

Deposit a magnet in a 1 x 1 x 2 ins. white plastic case beneath  
the stainless steel post at the sec. cor.

Cor. is located in a graded area where access roads from  
residences converge at the N. right-of-way of Arizona State  
Highway 264.

N. 0°01' E., bet. secs. 7 and 8.

Over gently rolling land.

Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 26 N., R. 31 E., Gila and Salt River Meridian, Arizona

|                     |   |
|---------------------|---|
| CHAINS<br><br>39.99 | <p>The 1/4 sec. cor. of secs. 7 and 8, monumented with an iron post, 2 1/2 ins. diam., set flush with the surface of the ground, with brass cap mkd. T26N R31E 1/4 S7 S8 1978, with a steel fence post set nearby.</p> <p>from which the 1984 bearing objects</p> <p style="padding-left: 40px;">The top valve lug on a fire hydrant, bears N. 28° E.,<br/>45 lks. dist., mkd. WR112.</p> <p style="padding-left: 40px;">A 60-penny nail in the S. face of a power pole, bears<br/>S. 82 1/2° W., 3.33 chs. dist.</p> <p>Add the mks. 1996 to the brass cap.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>The area surveyed falls in or near the community of Window Rock, Arizona. Principal access is provided by Arizona State Highway 264, which is just south of the corner of sections 7, 8, 17, and 18, and bears ENE and WSW.</p> <p>The terrain is gently rolling with scattered brush and native grasses, with no timber. The mean elevation is 6740 feet above sea level.</p> <p>The mean magnetic declination of 12° E. was derived from the United States Geological Survey computer program MAGPOINT utilizing the Regional Magnetic Field Model for Epoch 1995 for the dates of survey.</p> <hr/> |
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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 |
|               |                        |
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CERTIFICATE OF SURVEY

I, Leonard R. Sandoval, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 23rd day of May, 1986, and Assignment Instructions bearing date of the 31st day of July, 1996, I have dependently resurveyed a portion of the subdivisional lines, Township 26 North, Range 31 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, assignment 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.

August 11, 1997  
(Date)

Leonard R. Sandoval  
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Arizona State Office  
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the subdivisional lines, Township 26 North, Range 31 East, Gila and Salt River Meridian, Arizona, executed by Leonard R. Sandoval, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

AUG 22 1997  
(Date)

Lenny D. Pawmka  
(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. 26 N., R. 31 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

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

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