

## ORIGINAL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES  
OF THE  
DEPENDENT RESURVEY OF

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A PORTION OF THE SOUTH BOUNDARY,

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A PORTION OF THE SUBDIVISIONAL LINES,

---

AND THE METES-AND-BOUNDS SURVEY

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OF THE DOS CABEZAS MOUNTAINS WILDERNESS AREA BOUNDARY,

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IN

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TOWNSHIP 13 SOUTH, RANGE 27 EAST

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

EXECUTED BY

Stephen K. Hansen

Cadastral Surveyor

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Under Special Instructions dated October 20, 1994, approved October 20, 1994, which provided for the surveys included under Group Number 781, and assignment instructions dated January 8, 1997.

Survey Commenced February 18, 1997

Survey Completed February 26, 1997

INDEX DIAGRAM

TOWNSHIP 13 SOUTH, RANGE 27 EAST,

6	5	4	3	2	1
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## T. 13 S., R. 27 E., Gila and Salt River Meridian, Arizona

## CHAINS

The following field notes describe the dependent resurvey of a portion of the south boundary and a portion of the subdivisional lines, and the metes-and-bounds survey of the Dos Cabezas Mountains Wilderness Area Boundary, in Township 13 South, Range 27 East, Gila and Salt River Meridian, Arizona.

The history of prior surveys is as follows: The north and east boundaries were surveyed by Theodore F. White in 1882. The north and east boundaries were dependently resurveyed, the south and west boundaries were surveyed, and the subdivisional lines were surveyed by William B. Kimmel in 1914.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated October 20, 1994, for Group No. 781, Arizona.

Preliminary to the resurvey, the lines of the previous surveys were retraced and search was made for all corners and other calls of the record. Identified corners were remonumented in their original positions; lost corners were restored and monumented at proportionate positions based on the original record. 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 Sokkia Set 2BII total station instrument.

The geographic position of the corner of sections 35 and 36 only, on the south boundary of the township, was determined by the technique of static differential positioning using Ashtech models M-XII and MS-XII geodetic units. U.S. Coast and Geodetic Survey triangulation station "NINE 1945" was used as the control station.

Latitude 32°15'11.24" N. Longitude 109°33'02.23" W. NAD27

The mean magnetic declination, as taken from quadrangle map LUZENA, ARIZONA, published in 1979 by U.S. Geological Survey, is 12 1/2° E.

Dependent Resurvey of a Portion of the South Boundary,  
T. 13 S., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Restoring the survey executed by William B. Kimmel, in 1914</p> <hr/>
	<p>Beginning at the 1/4 sec. cor. of 35 only, on the S. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 19 ins. above ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. S35 1/4 S2 1914, from which an original bearing tree</p>
	<p>A juniper, 38 ins. diam., bears S. 61 3/4° W., 41 lks. dist., mkd. 1/4 S2 BT on an open blaze.</p>
	<p>Add the marks T13S R27E T14S 1997 on the brass cap.</p>
	<p>East, on the S. bdy. of sec. 35, over rocky, mountainous land.</p>
23.26	<p>Point for AP 4, sec. 35, identical with AP 1, sec. 2, T. 14 S., R. 27 E., on the Dos Cabezas Mountains Wilderness Area Bdy., hereinafter described.</p>
40.10	<p>The cor. of secs. 35 and 36 only, monumented with an iron post, 3 ins. diam., firmly set, projecting 10 ins. above ground, with brass cap mkd. T13S R27E S35 S36 S2 T14S 1914, from which an original bearing tree</p>
	<p>A dead and downed oak, 14 ins. diam., bears S. 80° E., 107 lks. dist., with rotted blaze.</p>
	<p>from which a new bearing object</p>
	<p>A rock outcropping, 2 1/2 x 3 x 3 ft. bears N. 53°05' W., 23 1/2 lks. dist., with the marks XBO chiselled on the face.</p>
	<p>Add the marks 1997 on the brass cap</p>
	<p>From this cor. point, U.S. Coast and Geodetic Survey triangulation station "NINE 1945", with published latitude of 32°14'31.034" N. and longitude of 109°29'36.675" W., NAD27, bears S. 77°03'15" E., (forward bearing) 274.55 chs. dist., monumented with a brass tablet, 3 1/2 ins. diam., firmly set, in concrete, flush with the surface of rock outcropping, mkd. NINE 1945 and a triangle. Reference monuments were found and in good order, and used to verify the position of the tri-station monument.</p>

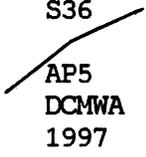
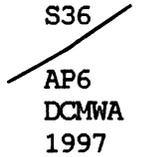
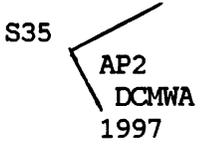
Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 13 S., R. 27 E., Gila and Salt River Meridian, Arizona

<p>CHAINS</p> <p>40.09</p>	<p style="text-align: center;">Restoring the survey executed by William B. Kimmel, in 1914</p> <hr/> <p>From the cor. of secs. 35 and 36 only, on the S. bdy. of the Tp., hereinbefore described.</p> <p>N. 0°06' E., bet. secs. 35 and 36.</p> <p>The 1/4 sec. cor. of secs. 35 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. 1/4 S35 S36 1914, from which the original bearing trees</p> <p style="padding-left: 40px;">A juniper, 15 ins. diam., bears S. 11 1/2° E., 84 lks. dist., with healed blaze.</p> <p style="padding-left: 40px;">A juniper, 34 ins. diam., bears S. 46 3/4° W., 302 lks. dist., mkd. 1/4 S35 BT on unhealed blaze.</p> <p>from which a new bearing object</p> <p style="padding-left: 40px;">A rock outcropping, 6 x 3 x 2 ft. high, bears N. 24 1/2° E., 79 3/4 lks. dist., mkd. X80 on top face.</p> <p>Add the marks T13S R27E 1997 on the brass cap</p>
	<p style="text-align: center;">Metes-and-Bounds Survey of the Dos Cabezas Mountains Wilderness Area Boundary, T. 13 S., R. 27 E., Gila and Salt River Meridian, Arizona</p>
<p>7.16</p>	<p style="text-align: center;">In Sec. 36</p> <hr/> <p>From the point for AP 1, sec. 36, identical with AP 6, sec. 30, T. 13 S., R. 28 E., and the cor. of secs. 30 and 31 only, T. 13 S., R. 28 E., on the E. bdy. of the Tp., monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 22 ins. above ground, in a mound of stone, 8 ft. base, to top, with brass cap mkd. T13S R27E R28E S30 S36 S31 1995 and witnessed as described in the field notes of the dependent resurvey of a portion of the subdivisional lines, T. 13 S., R. 28 E., executed concurrently under this same group.</p> <p>S. 38°01' W., on line 1-2, sec. 36, on the Dos Cabezas Mountains Wilderness Area Bdy.</p> <p>Point for AP 2, sec. 36.</p>

Metes-and-Bounds Survey of the  
 Dos Cabezas Mountains Wilderness Area Bdy.,  
 T. 13 S., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Set an aluminum driver, 36 ins. long, 3/4 in. diam., 8 ins. in the ground, to bedrock, in a mound of stone, 4 ft. base, 2 ft. high, with aluminum cap mkd.</p> <p style="text-align: center;">T13S R27E S36 / AP2 DCMWA 1997</p> <hr style="width: 20%; margin: auto;"/> <p>S. 57°31 W., on line 2-3, sec. 36.</p>
18.73	<p>Point for AP 3, sec. 36.</p> <p>Set an aluminum driver, 36 ins. long, 3/4 in. diam., 10 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with aluminum cap mkd.</p> <p style="text-align: center;">T13S R27E S36 / AP3 DCMWA 1997</p> <hr style="width: 20%; margin: auto;"/> <p>S. 85°38 W., on line 3-4, sec. 36.</p>
16.06	<p>Point for AP 4, sec. 36.</p> <p>Set an aluminum driver, 36 ins. long, 3/4 in. diam., 10 ins. in the ground, to bedrock, in a mound of stone, 4 ft. base, to top, with aluminum cap mkd.</p> <p style="text-align: center;">T13S R27E S36 / AP4 DCMWA 1997</p> <hr style="width: 20%; margin: auto;"/> <p>S. 79°38 W., on line 4-5, sec. 36.</p>
18.73	<p>Point for AP 5, sec. 36.</p> <p>Set an aluminum driver, 36 ins. long, 3/4 in. diam., 18 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with aluminum cap mkd.</p>

Metes-and-Bounds Survey of the  
 Dos Cabezas Mountains Wilderness Area Bdy.,  
 T. 13 S., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p style="text-align: center;">T13S R27E S36</p>  <p style="text-align: center;">AP5 DCMWA 1997</p> <hr style="width: 20%; margin: 0 auto;"/>
17.35	<p>S. 48°08 W., on line 5-6, sec. 36.</p> <p>Point for AP 6, sec. 36.</p> <p>Set an aluminum driver, 36 ins. long, 3/4 in. diam., 30 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with aluminum cap mkd.</p>
	<p style="text-align: center;">T13S R27E S36</p>  <p style="text-align: center;">AP6 DCMWA 1997</p> <hr style="width: 20%; margin: 0 auto;"/>
8.47	<p>S. 51°11 W., on line 6-7, sec. 36.</p> <p>The point for AP 7, sec. 36, identical with AP 1, sec. 35, and the 1/4 sec. cor. of secs. 35 and 36, hereinbefore described.</p>
	<p style="text-align: center;">In Sec. 35</p> <hr style="width: 20%; margin: 0 auto;"/>
8.84	<p>S. 62°52' W., on line 1-2, sec. 35.</p> <p>Point for AP 2, sec. 35.</p> <p>Set an aluminum driver, 36 ins. long, 3/4 in. diam., 10 ins. in the ground, to bedrock, in a mound of stone, 4 ft. base, to top, with aluminum cap mkd.</p>
	<p style="text-align: center;">T13S R27E</p>  <p style="text-align: center;">S35 AP2 DCMWA 1997</p> <hr style="width: 20%; margin: 0 auto;"/>
	<p>S. 2°59' E., on line 2-3, sec. 35.</p>

Metes-and-Bounds Survey of the  
 Dos Cabezas Mountains Wilderness Area Bdy.,  
 T. 13 S., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS	
17.12	<p>Point for AP 3, sec. 35.</p> <p>Set an aluminum driver, 36 ins. long, 3/4 in. diam., 10 ins. in the ground, to bedrock, in a mound of stone, 4 ft. base, to top, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>T13S R27E</p> <p>S35 / AP3</p> <p>DCMWA</p> <p>1997</p> </div> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 27°39' W., on line 3-4, sec. 35.</p>
21.41	<p>Point for AP 4, sec. 35, identical with AP 1, sec. 2, T. 14 S., R. 27 E., on the line bet. secs. 2 and 35, on the S. bdy. of the Tp.</p> <p>Set an aluminum driver, 36 ins. long, 3/4 in. diam., 18 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>T13S R27E</p> <p>S35 / AP4 DCM</p> <hr style="width: 20%; margin: 5px auto;"/> <p>S2 AP1 WA</p> <p>T14S</p> <p>1997</p> </div> <p>From this cor. point, the cor. of secs. 35 and 36 only, on the S. bdy. of the Tp., hereinbefore described, bears East, 16.84 chs. dist.</p> <hr style="width: 80%; margin: 10px auto;"/> <div style="text-align: center;"> <p>General Description</p> <hr style="width: 20%; margin: 5px auto;"/> </div> <p>The area encompassed by this survey is located about 6 miles SSW of Bowie, Arizona.</p> <p>The terrain is steep, mountainous, and rocky. Vegetation consists of juniper, oak, various shrubs and different species of cacti. There are deer and javelina that live in this area.</p> <p>There is evidence of mineral activity in this area.</p> <p>The mean magnetic declination is 12 1/2° E.</p>

## T. 13 S., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS

Description of the Dos Cabezas Mountains Wilderness Area Bdy.  
T. 13 S., R. 27 E., Gila and Salt River Meridian, Arizona

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The following is for informational purposes only.

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Beginning at Angle Point 1, sec. 36, identical with Angle Point 6, sec. 30, T. 13 S., R. 28 E., and the cor. of secs. 30 and 31 only, on the E. bdy. of the Tp.

thence S. 38°01' W., 7.16 chs. dist. to Angle Point 2, sec. 36;  
thence S. 57°31' W., 18.73 chs. dist. to Angle Point 3, sec. 36;  
thence S. 85°38' W., 16.06 chs. dist. to Angle Point 4, sec. 36;  
thence S. 79°38' W., 18.73 chs. dist. to Angle Point 5, sec. 36;  
thence S. 48°08' W., 17.35 chs. dist. to Angle Point 6, sec. 36;  
thence S. 51°11' W., 8.47 chs. dist. to Angle Point 7, sec. 36,  
identical with Angle Point 1, sec. 35, and the 1/4 sec. cor.  
of secs. 35 and 36;

thence S. 62°52' W., 8.84 chs. dist. to Angle Point 2, sec. 35;  
thence S. 2°59' E., 17.12 chs. dist. to Angle Point 3, sec. 35;  
thence S. 27°39' W., 21.41 chs. dist. to Angle Point 4, sec. 35,  
identical with Angle Point 1, sec. 2, on the S. bdy. of the  
Tp.

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UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Cheryl A. Baier	Surveying Technician
Geoffrey A. Graham	Surveying Technician
Robert J. Lyle	Surveying Technician
Mark R. Searles	Surveying Technician

## CERTIFICATE OF SURVEY

I, Stephen K. Hansen, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 20th day of October, 1994, I have dependently resurveyed a portion of the south boundary and a portion of the subdivisional lines, and performed the metes-and-bounds survey of the Dos Cabezas Mountains Wilderness Area Boundary, in Township 13 South, Range 27 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.

2/27/98

(Date)

Stephen K. Hansen

(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 south boundary and a portion of the subdivisional lines, and the metes-and-bounds survey of the Dos Cabezas Mountains Wilderness Area Boundary, in Township 13 South, Range 27 East, Gila and Salt River Meridian, Arizona, executed by Stephen K. Hansen, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

October 26, 1998

(Date)

Fenny 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. 13 S., R. 27 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~