

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

COMPOSITE FIELD NOTES  
OF THE  
SURVEY OF THE

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LEGAL DESCRIPTIVE BOUNDARY

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OF THE

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DOS CABEZAS MOUNTAINS WILDERNESS AREA

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IN

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TOWNSHIPS 13 AND 14 SOUTH, RANGES 27 AND 28 EAST,

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

EXECUTED BY

Gordon R. Bubel, William P. Carpender, Stephen K. Hansen

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and Clyde J. King, Cadastral Surveyors

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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 November 17, 1994, February 6, 1995 and January 8, 1997.

Survey Commenced November 21, 1994

Survey Completed April 9, 1997

Tps. 13 and 14 S., Rs. 27 and 28 E., Gila and Salt River Meridian, Arizona

CHAINS

The approval of these composite field notes and the acceptance of the plat, in seven sheets, will constitute the legal description and map of the Dos Cabezas Mountains Wilderness Area Boundary, as required by Public Law 101-628, "Arizona Desert Wilderness Act of 1990", TITLE 1, SEC. 101. (c).

This survey was executed in compliance with the provisions as set forth in Public Law 101-628, "Arizona Desert Wilderness Act of 1990".

These field notes are a composite of the approved surveys executed in the individual townships. They describe the survey of the descriptive boundary of the Dos Cabezas Mountains Wilderness Area Boundary in Townships 13 and 14 South, Ranges 27 and 28 East, Gila and Salt River Meridian, Arizona.

For detailed information regarding the survey history of the townships, refer to the approved field notes of the individual townships.

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.

For detailed information regarding monumentation and topography, the field note record for that particular township should be consulted.

The directions of all lines were determined by direct hour angle observations on the sun, confirmed by observations on the U. S. Geological Survey triangulation network, and further confirmed by the technique of static differential positioning using Ashtech models M-XII and MS-XII geodetic units, 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 31 and 32 only, on the Dos Cabezas Mountains Wilderness Area Boundary, on the south boundary of the Township 13 South, Range 28 East, 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°15'08.18" N. Longitude 109°31'03.95" W. NAD27

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

Survey of the Descriptive Bdy. of the Dos Cabezas Mountains Wilderness Area,  
Tps. 13 and 14 S., Rs. 27 and 28 E., Gila and Salt River Meridian, Arizona

CHAINS

In Township 13 South, Range 28 East

Beginning at the cor. of secs. 31 and 32 only, on the S. bdy of the Tp.

thence N. 0°15' W., on the line bet. secs. 31 and 32, 60.105 chs. dist., to the N. 1/16 sec. cor. of secs. 31 and 32;

thence N. 89°00' W., on the E. and W. center line of the NE 1/4 of sec. 31, 19.99 chs. dist., to the NE 1/16 sec. cor of sec. 31;

thence N. 0°24' W., on the N. and S. center line of the NE 1/4 of sec. 31, 20.15 chs. dist., to the E. 1/16 sec. cor. of secs. 30 and 31;

thence N. 0°40' E., on the N. and S. center line of the SE 1/4 of sec. 30, 39.85 chs. dist., to the center E. 1/16 sec. cor of sec. 30;

thence N. 89°21' W., on the E. and W. center line of sec. 30, 20.20 chs. dist., to the center 1/4 sec. cor. of sec. 30;

thence N. 0°27' E., on the N. and S. center line of sec. 30, 19.91 chs. dist., to the center N. 1/16 sec. cor. of sec. 30;

thence N. 89°31' W., on the E. and W. center line of the NW 1/4 of sec. 30, 8.54 chs. dist., to Angle Point 1, sec. 30;

thence S. 42°27' W., 14.82 chs. dist., to Angle Point 2, sec. 30;

thence S. 22°05' W., 8.12 chs. dist., to Angle Point 3, sec. 30;

thence S. 17°25' E., 4.11 chs. dist., to Angle Point 4, sec. 30;

thence S. 26°24' W., 23.34 chs. dist., to Angle Point 5, sec. 30;

thence S. 30°14' W., 17.84 chs. dist., to Angle Point 6, sec. 30, identical with Angle Point 1, sec. 36, T. 13 S., R. 27 E., and the cor. of secs. 30 and 31 only, on the W. bdy. of the Tp.

In Township 13 South, Range 27 East

From 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;

Survey of the Descriptive Bdy. of the Dos Cabezas Mountains Wilderness Area,  
Tps. 13 and 14 S., Rs. 27 and 28 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>thence S. 27°39' W., 21.41 chs. dist. to Angle Point 4, sec. 35, identical with Angle Point 1, sec. 2, T. 14 S., R. 27 E., on the S. bdy. of the Tp.</p> <hr/> <p style="text-align: center;">In Township 14 South, Range 27 East</p> <hr/> <p>From Angle Point 1, sec. 2, identical with Angle Point 4, sec. 35, T. 13 S., R. 27 E., on the N. bdy. of the Tp.</p> <p>thence S. 21°16' W., 15.91 chs. dist., to Angle Point 2, sec. 2; thence S. 41°03' W., 13.92 chs. dist., to Angle Point 3, sec. 2; thence S. 45°18' E., 13.04 chs. dist., to Angle Point 4, sec. 2; thence S. 27°30' W., 13.58 chs. dist., to Angle Point 5, sec. 2; thence S. 41°36' E., 6.14 chs. dist., to Angle Point 6, sec. 2; thence S. 54°34' W., 25.20 chs. dist., to Angle Point 7, sec. 2; thence S. 48°34' W., 21.70 chs. dist., to Angle Point 8, sec. 2; thence S. 3°37' W., 1.98 chs. dist., to Angle Point 9, sec. 2, identical with Angle Point 1, sec. 11, on the line bet. secs. 2 and 11; thence S. 3°37' W., 15.90 chs. dist., to Angle Point 2, sec. 11; thence S. 35°43' W., 15.13 chs. dist., to Angle Point 3, sec. 11, on line 3-4, Red Jacket Lode, Mineral Survey No. 1072; thence S. 27°41' E., on line 4-3, Red Jacket lode, Mineral Survey No. 1072, 7.72 chs. dist., to Angle Point 4, sec. 11, identical with cor. No. 3, Red Jacket lode; thence S. 44°00' W., on line 3-2, Red Jacket lode, Mineral Survey No. 1072, 9.09 chs. dist., to Angle Point 5, sec. 11, identical with cor. No. 2, Red Jacket lode; thence N. 27°41' W., on line 2-1, Red Jacket lode, Mineral Survey No. 1072, 6.45 chs. dist., to Angle Point 6, sec. 11; thence S. 33°14' W., 4.93 chs. dist., to Angle Point 7, sec. 11, identical with Angle Point 1, sec. 10, and the 1/4 sec. cor. of secs. 10 and 11; thence S. 38°01' W., 9.28 chs. dist., to Angle Point 2, sec. 10; thence S. 88°32' W., 10.43 chs. dist., to Angle Point 3, sec. 10; thence N. 62°48' W., 13.97 chs. dist., to Angle Point 4, sec. 10; thence S. 75°07' W., 4.69 chs. dist., to Angle Point 5, sec. 10; thence S. 35°19' W., 33.26 chs. dist., to Angle Point 6, sec. 10; thence S. 11°37' W., 10.64 chs. dist., to Angle Point 7, sec. 10, identical with Angle Point 1, sec. 15, on the line bet. secs. 10 and 15; thence S. 11°37' W., 17.18 chs. dist., to Angle Point 2, sec. 15; thence S. 8°58' W., 18.34 chs. dist., to Angle Point 3, sec. 15; thence N. 48°15' E., 3.80 chs. dist., to Angle Point 4, sec. 15, identical with cor. No. 3, North End lode, Mineral Survey No. 3931;</p>
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Survey of the Descriptive Bdy. of the Dos Cabezas Mountains Wilderness Area,  
Tps. 13 and 14 S., Rs. 27 and 28 E., Gila and Salt River Meridian, Arizona

CHAINS

thence S. 88°14' E., on line 3-4, North End lode, Mineral Survey No. 3931, 4.53 chs. dist., to Angle Point 5, sec. 15, identical with cor. No. 4, North End lode;

thence S. 49°10' E., on line 4-5, North End lode, Mineral Survey No. 3931, 4.58 chs. dist., to Angle Point 6, sec. 15, identical with cor. No. 5, North End lode;

thence S. 23°45' W., on line 5-1, North End lode, Mineral Survey No. 3931, 18.26 chs. dist., to Angle Point 7, sec. 15, at intersection with line 3-4, Protection lode, Mineral Survey No. 3931;

thence S. 88°48' E., on line 3-4, Protection lode, Mineral Survey No. 3931, 20.02 chs. dist., to Angle Point 8, sec. 15, identical with cor. No. 4, Protection lode.

thence S. 1°08' W., on line 4-1, Protection lode, Mineral Survey No. 3931, 9.08 chs. dist., to Angle Point 9, sec. 15, identical with cor. No. 1, Protection lode;

thence N. 88°46' W., on line 1-2, Protection lode, Mineral Survey No. 3931, 4.50 chs. dist., to Angle Point 10, sec. 15;

thence S. 29°15' W., 6.40 chs. dist., to Angle Point 11, sec. 15;

thence S. 27°02' E., 13.81 chs. dist., to Angle Point 12, sec. 15, identical with Angle Point 1, sec. 22, on the line bet. secs. 15 and 22;

thence S. 27°02' E., 7.00 chs. dist., to Angle Point 2, sec. 22;

thence S. 60°39' E., 12.45 chs. dist., to Angle Point 3, sec. 22;

thence S. 68°00' E., 15.62 chs. dist., to Angle Point 4, sec. 22;

thence S. 69°53' E., 11.10 chs. dist., to Angle Point 5, sec. 22; identical with Angle Point 1, sec. 23, on the line bet. secs. 22 and 23.

thence S. 69°53' E., 5.91 chs. dist., to Angle Point 2, sec. 23;

thence S. 56°11' E., 36.56 chs. dist., to Angle Point 3, sec. 23;

thence S. 72°30' E., 34.15 chs. dist., to Angle Point 4, sec. 23;

thence S. 20°56' W., 21.89 chs. dist., to Angle Point 5, sec. 23;

thence S. 73°40' E., 19.62 chs. dist., to Angle Point 6, sec. 23, identical with the cor. of secs. 23 and 24 only.

thence S. 89°14' E., on the N. bdy. of sec. 26, 0.62 ch., dist. to the cor. of secs. 25 and 26 only.

thence N. 89°59' E., on the N. bdy. of sec. 25, 79.22 chs., dist. to the cor. of secs. 24 and 25 only, identical with Angle Point 1, sec. 30, T. 14 S., R. 28 E., on the E. bdy. of the Tp.

In Township 14 South, Range 28 East

From Angle Point 1, sec. 30, identical with the cor. of secs. 24 and 25 only, T. 14 S., R. 27 E., on the W. bdy. of the Tp.

thence S. 80°06' E., 16.06 chs. dist., to Angle Point 2, sec. 30;

thence N. 87°22' E., 18.34 chs. dist., to Angle Point 3, sec. 30;

Survey of the Descriptive Bdy. of the Dos Cabezas Mountains Wilderness Area,  
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CHAINS	
	<p>thence N. 39°49' E., 7.77 chs. dist., to Angle Point 4, sec. 30, identical with Angle Point 1, sec. 19, and the 1/4 sec. cor. of secs. 19 and 30;</p> <p>thence N. 16°35' E., 11.74 chs. dist., to Angle Point 2, sec. 19;</p> <p>thence N. 57°46' E., 36.17 chs. dist., to Angle Point 3, sec. 19;</p> <p>thence N. 54°19' E., 7.84 chs. dist., to Angle Point 4, sec. 19, identical with Angle Point 1, sec. 20, on the line bet. secs. 19 and 20;</p> <p>thence N. 73°30' E., 28.01 chs. dist., to Angle Point 2, sec. 20;</p> <p>thence S. 40°51' E., 43.23 chs. dist., to Angle Point 3, sec. 20;</p> <p>thence S. 78°05' E., 24.96 chs. dist., to Angle Point 4, sec. 20, identical with Angle Point 1, sec. 21, on the line bet. secs. 20 and 21;</p> <p>thence N. 81°40' E., 19.04 chs. dist., to Angle Point 2, sec. 21;</p> <p>thence S. 52°48' E., 13.24 chs. dist., to Angle Point 3, sec. 21;</p> <p>thence N. 75°31' E., 16.94 chs. dist., to Angle Point 4, sec. 21;</p> <p>thence N. 55°37' E., 20.91 chs. dist., to Angle Point 5, sec. 21;</p> <p>thence S. 84°45' E., 16.65 chs. dist., to Angle Point 6, sec. 21, identical with Angle Point 1, sec. 22, on the line bet. secs. 21 and 22;</p> <p>thence S. 89°05' E., 12.66 chs. dist., to Angle Point 2, sec. 22;</p> <p>thence N. 54°25' E., 25.00 chs. dist., to Angle Point 3, sec. 22;</p> <p>thence N. 28°21' E., 13.82 chs. dist., to Angle Point 4, sec. 22;</p> <p>thence N. 20°04' E., 11.30 chs. dist., to Angle Point 5, sec. 22;</p> <p>thence N. 34°07' E., 9.09 chs. dist., to Angle Point 6, sec. 22;</p> <p>thence N. 11°24' E., 3.08 chs. dist., to Angle Point 7, sec. 22;</p> <p>thence N. 68°54' E., 10.51 chs. dist., to Angle Point 8, sec. 22;</p> <p>thence N. 48°32' E., 8.99 chs. dist., to Angle Point 9, sec. 22;</p> <p>thence N. 22°30' E., 8.22 chs. dist., to Angle Point 10, sec. 22, identical with Angle Point 1, sec. 15, on the line bet. secs. 15 and 22;</p> <p>thence N. 31°38' E., 7.70 chs. dist., to Angle Point 2, sec. 15;</p> <p>thence N. 28°00' E., 15.33 chs. dist., to Angle Point 3, on the line bet. secs. 14 and 15;</p> <p>thence N. 0°01' W., on the line bet. secs. 14 and 15, 19.88 chs. dist., to the 1/4 sec. cor. of secs. 14 and 15;</p> <p>thence North, on the line bet. secs. 14 and 15, 39.98 chs. dist., to the cor. of secs. 10, 11, 14 and 15;</p> <p>thence S. 89°48' W., on the line bet. secs. 10 and 15, 39.98 chs. dist., to the 1/4 sec. cor. of secs. 10 and 15;</p> <p>thence S. 89°48' W., on the line bet. secs. 10 and 15, 40.06 chs. dist., to the cor. of secs. 9, 10, 15 and 16;</p> <p>thence N. 89°58' W., on the line bet. secs. 9 and 16, 19.96 chs. dist., to the true point for the E. 1/16 sec. cor. of secs. 9 and 16;</p> <p>thence N. 0°03' E., on the N. and S. center line of the SE 1/4 of sec. 9, 39.94 chs. dist., to the center E. 1/16 sec. cor. of sec. 9;</p> <p>thence N. 89°58' W., on the E. and W. center line of sec. 9, 39.84 chs. dist., to the center W. 1/16 sec. cor. of sec. 9;</p>

Survey of the Descriptive Bdy. of the Dos Cabezas Mountains Wilderness Area,  
Tps. 13 and 14 S., Rs. 27 and 28 E., Gila and Salt River Meridian, Arizona

## CHAINS

thence N. 0°04' E., on the N. and S. center line of the NW 1/4 of sec. 9, 38.60 chs. dist., to Angle Point 1, sec. 9;  
 thence N. 89°34' W., 11.14 chs. dist., to Angle Point 2, sec. 9;  
 thence S. 8°12' W., 4.95 chs. dist., to Angle Point 3, sec. 9;  
 thence S. 22°31' W., 1.43 chs. dist., to Angle Point 4, sec. 9;  
 thence N. 89°10' W., 5.74 chs. dist., to Angle Point 5, sec. 9;  
 thence N. 22°27' W., 8.21 chs. dist., to Angle Point 1, sec. 8,  
 on the line bet. secs. 5 and 8;  
 thence N. 89°58' W., on the line bet. secs. 5 and 8, 38.58 chs.  
 dist., to the 1/4 sec. cor. of secs. 5 and 8;  
 thence S. 0°41' E., on the N. and S. center line of sec. 8,  
 79.96 chs. dist., to the true point for the 1/4 sec. cor. of  
 secs. 8 and 17;  
 thence N. 89°50' W., on the line bet. secs. 8 and 17, 0.54 ch.  
 dist., to the witness cor. to the 1/4 sec. cor. of secs. 8  
 and 17;  
 thence S. 89°57' W., on the line bet. secs. 8 and 17, 40.60 chs.  
 dist., to the cor. of secs. 7 and 8 only;  
 thence S. 89°53' W., on the line bet. secs. 7 and 18, 40.19 chs.  
 dist., to the 1/4 sec. cor. of sec. 7 only;  
 thence S. 89°58' W., on the line bet. secs. 7 and 18, 38.38 chs.  
 dist., to the closing cor. of secs. 7 and 18;  
 thence North, on the W. bdy. of sec. 7, 36.60 chs. dist., to the  
 1/4 sec. cor. of sec. 12 only, T. 14 S., R. 27 E.;  
 thence N. 0°11' E., on the W. bdy. of sec. 7, 40.02 chs. dist.,  
 to the cor. of secs. 1 and 12, only, T. 14 S., R. 27 E.;  
 thence N. 0°06' W., on the W. bdy. of sec. 7, 3.39 chs. dist., to  
 the closing cor. of secs. 6 and 7;  
 thence S. 89°59' E., on the line bet. secs. 6 and 7, 38.59 chs.  
 dist., to the 1/4 sec. cor. of secs. 6 and 7;  
 thence N. 89°54' E., on the line bet. secs. 6 and 7, 40.03 chs.  
 dist., to the true point for the cor. of secs. 5, 6, 7 and  
 8;  
 thence N. 0°02' W., on the line bet. secs. 5 and 6, 40.00 chs.  
 dist., to the 1/4 sec. cor. of secs. 5 and 6;  
 thence N. 0°08' W., on the line bet. secs. 5 and 6, 34.10 chs.  
 dist., to the closing cor. of secs. 5 and 6;  
 thence S. 89°52' W., on the N. bdy. of sec. 6, 4.39 chs. dist.,  
 to the cor. of secs. 31 and 32 only, T. 13 S. R. 28 E., and  
 point of beginning

CERTIFICATE OF SURVEY

These composite field notes constitute the legal description of the Dos Cabezas Mountains Wilderness Area, as required by Public Law 101-628, "Arizona Desert Wilderness Act of 1990", TITLE 1, SEC. 101. (c).

The foregoing field note record of the survey of the descriptive boundary of the Dos Cabezas Mountains Wilderness Area in Townships 13 and 14 South, Ranges 27 and 28 East, Gila and Salt River Meridian, Arizona, was executed in compliance with the provisions as set forth in Public Law 101-628, "Arizona Desert Wilderness Act of 1990" and in pursuance of Special Instructions dated October 20, 1994, for Group No. 781, Arizona; 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.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Arizona State Office  
Phoenix, Arizona

The foregoing field notes of the survey of the descriptive boundary of the Dos Cabezas Mountains Wilderness Area in Townships 13 and 14 South, Ranges 27 and 28 East, Gila and Salt River Meridian, Arizona, executed by Gordon R. Eubel, William P. Carpenter, Stephen K. Hansen and Clyde J. King, Cadastral Surveyors, having been critically examined and found correct, are hereby approved.

November 3, 1998  
(Date)

Kenny D Ravnikar  
(Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in Tps. 13 and 14 S., Rs. 27 and 28 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

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

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(Chief Cadastral Surveyor of Arizona)~~