

ORIGINAL

BOOK 5353  
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R-5353

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

COMPOSITE FIELD NOTES  
OF THE

SURVEY OF THE

LEGAL DESCRIPTIVE BOUNDARY

OF THE

MUGGINS MOUNTAINS WILDERNESS

AREA

IN

TOWNSHIPS 7 AND 8 SOUTH, RANGES 19 AND 20 WEST,

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Stephen K. Hansen and Robin T. Mathews , Cadastral Surveyors

Under Special Instructions dated March 12, 1991 and Amended Special Instructions dated April 18, 1991, approved March 12, 1991 and April 18, 1991, which provided for the surveys included under Group Number 729 and assignment instructions dated March 12, 1991 and October 16, 1991.

Survey commenced April 1, 1991

Survey completed January 27, 1992

Tps. 7 and 8 S., Rs. 19 and 20 W., Gila and Salt River Meridian, Arizona

## CHAINS

The approval of these composite field notes and the acceptance of the plat, in two sheets, will constitute the legal description and map of the Muggins Mountains Wilderness 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 Muggins Mountains Wilderness Boundary in Townships 7 and 8 South, Ranges 19 and 20 West, 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 March 12, 1991, and the Amended Supplemental Instructions dated April 18, 1991, for Group No. 729, 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, and refer to the true meridian. Distances and angles were measured with a Lietz Set 4 and a Geodimeter 140 electronic instruments.

The geographic position of AP 19, T. 8 S., R. 19 W., of the Muggins Mountains Wilderness Boundary, was determined by the technique of relative positioning using the Ashtech XII Geodetic Survey Unit. Adonde and Overpass were used as the control stations. Elevations and coordinates refer to the top of the monument.

Latitude 32°42'25.66" N. Longitude 104°14'58.34" W. NAD 27

The mean magnetic declination is 13° E.

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Survey of the Descriptive Boundary of the,  
Muggins Mountains Wilderness Area,  
Tps. 7 and 8 S., Rs. 19 and 20 W., Gila and Salt River Meridian, Arizona

CHAINS	<p style="text-align: center;">In Township 8 South, Range 19 West</p> <hr/> <p>Beginning at the cor. of sections 13, 18, 19 and 24 on the W. bdy. of the tp.;</p> <p>thence S. 0°02' W., 57.775 chains distance to Angle Point 18;  thence S. 82°08' E., 16.27 chains distance to the southwest 1/16 section corner of section 19;  thence on the north and south centerline of the southwest quarter of section 19, N. 0°04' W., 20.00 chains distance to the center west 1/16 section corner of section 19;  thence on the east and west centerline of section 19, S. 89°57' E., 19.91 chains distance, to the center 1/4 section corner of section 19;  thence on the north and south centerline of section 19, South, 40.00 chains distance, to the 1/4 section corner of sections 19 and 30;  thence on the line between sections 19 and 30, S. 89°56' E., 17.43 chains distance to Angle Point 19;  thence N. 15°15' E., 29.90 chains distance to Angle Point 20;  thence N. 11°12' E., 11.36 chains distance to Angle Point 21;  thence N. 58°15' E., 11.58 chains distance to Angle Point 22;  thence N. 17°50' E., 8.97 chains distance to Angle Point 23;  thence N. 24°57' E., 15.95 chains distance to Angle Point 24;  thence N. 79°23' E., 7.16 chains distance to Angle Point 25;  thence N. 36°04' E., 11.83 chains distance to Angle Point 26;  thence N. 49°04' E., 34.15 chains distance to Angle Point 27;  thence N. 72°25' E., 19.91 chains distance to Angle Point 28;  thence N. 50°21' E., 30.30 chains distance to Angle Point 29;  thence N. 5°54' W., 36.71 chains distance to Angle Point 30;  thence N. 24°56' E., 27.23 chains distance to Angle Point 31;  thence N. 72°59' E., 43.45 chains distance to Angle Point 32;  thence N. 54°40' E., 36.84 chains distance to Angle Point 33;  thence N. 9°24' E., 26.87 chains distance to Angle Point 34;  thence N. 0°59' E., 15.67 chains distance to Angle Point 35;  thence N. 10°13' W., 27.25 chains distance to Angle Point 36;  thence N. 2°18' E., 27.92 chains distance to Angle Point 37, on the N. bdy. of the tp. identical with Angle Point 1, T. 7 S., R. 19 W.;</p> <hr/>
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Survey of the Descriptive Boundary of the,  
Muggins Mountains Wilderness Area,  
Tps. 7 and 8 S., Rs. 19 and 20 W., Gila and Salt River Meridian, Arizona

CHAINS

In Township 7 South, Range 19 West

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From Angle Point 1, on the S. bdy. of the tp., identical with  
Angle Point 37, T. 8 S., R. 19 W.;

thence N. 68°48' W., 33.98 chains distance to Angle Point 2;

thence S. 70°15' W., 36.01 chains distance to Angle Point 3, on  
the S. bdy. of the tp.;

thence on the line between sections 5 and 32, on the S. bdy. of  
the tp., West, 23.51 chains distance to the corner of  
sections 32 and 33;

thence N. 78°45' W., 40.37 chains distance to Angle Point 4;

thence S. 55°06' W., 13.70 chains distance to Angle Point 5, on  
the S. bdy. of the tp., identical with Angle Point 39,  
T. 8 S., R. 19 W.;

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In Township 8 South, Range 19 West

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From Angle Point 39, on the N. bdy. of the township, identical  
with Angle Point 5, T. 7 S., R. 19 W.;

thence S. 6°41' W., 13.33 chains distance to Angle Point 40;

thence N. 64°22' W., 30.68 chains distance to the corner of  
sections 5, 6, 31 and 32, on the N. bdy. of the tp.;

thence N. 89°57' W., on the line between sections 6 and 31, on  
the N. bdy. of the tp., 40.105 chains distance to the 1/4  
sec. cor. of sections 6 and 31;

thence N. 89°54' W., on the line between sections 6 and 31 on the  
N. bdy. of the tp., 35.68 chains distance to the corner of  
sections 1, 6, 31 and 36, Tps. 7 and 8 S., Rs. 19 and 20 W.

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Survey of the Descriptive Boundary of the,  
Muggins Mountains Wilderness Area,  
Tps. 7 and 8 S., Rs. 19 and 20 W., Gila and Salt River Meridian, Arizona

CHAINS

In Township 8 South, Range 20 West

From the corner of sections 1, 6, 31 and 36, Tps. 7 and 8 S.,  
Rs. 19 and 20 W.;

thence on the line between sections 1 and 36, on the N. bdy. of  
the tp., N. 89°58' W., 32.05 chs. distance to Angle Point  
33;

thence S. 57°00' W., 18.56 chains distance to Angle Point 34;

thence S. 85°16' W., 13.00 chains distance to Angle Point 35;

thence S. 76°33' W., 14.82 chains distance to Angle Point 36;

thence S. 87°26' W., 4.69 chains distance to Angle Point 37;

thence S. 84°58' W., 20.37 chains distance to Angle Point 38;

thence S. 82°43' W., 11.70 chains distance to Angle Point 39;

thence S. 12°31' W., 14.89 chains distance to Angle Point 40;

thence S. 43°52' W., 24.26 chains distance to Angle Point 41;

thence S. 8°24' W., 15.19 chains distance to Angle Point 42;

thence S. 48°39' W., 21.14 chains distance to Angle Point 43;

thence N. 77°36' W., 10.49 chains distance to Angle Point 44;

thence on the line between sections 2 and 3, S. 0°15' W.,  
3.34 chains distance to the corner of sections 2, 3, 10 and  
11;

thence on the line between sections 10 and 11, S. 0°09' W.,  
39.97 chains distance to the 1/4 section corner of sections  
10 and 11;

thence on the east and west centerline of section 11, East,  
40.05 chains distance, to the center 1/4 section corner of  
section 11;

thence on the north and south centerline of section 11,  
S. 0°05' W., 39.95 chains distance to the 1/4 section corner  
of sections 11 and 14;

thence on the line between sections 11 and 14, S. 89°58' E.,  
40.05 chains distance to the corner of sections 11, 12, 13  
and 14;

thence on the line between sections 13 and 14, S. 0°03' W.,  
39.99 chs. distance, to the 1/4 section corner of sections  
13 and 14;

thence on the east and west centerline of section 13,  
N. 89°57' E., 24.445 chains distance to Angle Point 32;

Survey of the Descriptive Boundary of the,  
Muggins Mountains Wilderness Area,  
Tps. 7 and 8 S., Rs. 19 and 20 W., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>thence N. 35°32' E., 6.16 chains distance to Angle Point 31;  thence N. 59°13' E., 8.67 chains distance to Angle Point 30;  thence N. 28°21' E., 4.16 chains distance to Angle Point 29;  thence N. 23°18' W., 3.02 chains distance to Angle Point 28;  thence N. 31°07' E., 1.87 chains distance to Angle Point 27;  thence N. 85°21' E., 3.78 chains distance to Angle Point 26;  thence N. 57°47' E., 4.91 chains distance to Angle Point 25;  thence N. 50°15' E., 8.38 chains distance to Angle Point 24;  thence N. 75°55' E., 4.91 chains distance to Angle Point 23;  thence N. 7°12' E., 3.49 chains distance to Angle Point 22;  thence N. 34°06' E., 7.90 chains distance to Angle Point 21;  thence N. 54°10' E., 10.23 chains distance to Angle Point 20;  thence N. 7°01' W., 8.44 chains distance to Angle Point 19;  thence N. 86°51' E., 6.10 chains distance to Angle Point 18;  thence S. 83°03' E., 5.51 chains distance to Angle Point 17, on  the E. bdy. of the township, identical with Angle Point 17,  T. 8 S., R. 19 W., ;</p> <hr/> <p style="text-align: center;">In Township 8 South, Range 19 West</p> <hr/> <p>From Angle Point 17, on the W. bdy. of the tp., identical with  Angle Point 17, T. 8 S., R. 20 W.;</p> <p>thence S. 83°03' E., 8.29 chains distance to Angle Point 16;  thence S. 80°10' E., 6.33 chains distance to Angle Point 15;  thence N. 67°30' E., 4.85 chains distance to Angle Point 14;  thence S. 68°33' E., 3.23 chains distance to Angle Point 13;  thence S. 86°33' E., 5.61 chains distance to Angle Point 12;  thence N. 77°20' E., 4.01 chains distance to Angle Point 11;  thence S. 89°50' E., 4.69 chains distance to Angle Point 10;  thence N. 64°58' E., 2.14 chains distance to Angle Point 9;  thence S. 18°20' E., 1.95 chains distance to Angle Point 8;  thence West , 7.14 chains distance to Angle Point 7;  thence S. 78°17' W., 8.16 chains distance to Angle Point 6;  thence N. 71°35' W., 2.71 chains distance to Angle Point 5;  thence S. 86°31' W., 7.08 chains distance to Angle Point 4;  thence S. 83°59' W., 4.55 chains distance to Angle Point 3;  thence N. 74°01' W., 6.54 chains distance to Angle Point 2;  thence N. 86°03' W., 3.13 chains distance to Angle Point 1, on  the W. bdy. of the township, identical with Angle Point 16,  T. 8 S., R. 20 W.;</p> <hr/>

Survey of the Descriptive Boundary of the,  
Muggins Mountains Wilderness Area,  
Tps. 7 and 8 S., Rs. 19 and 20 W., Gila and Salt River Meridian, Arizona

CHAINS

In Township 8 South, Range 20 West

From Angle Point 16, on the E. bdy. of the township, identical  
with Angle Point 1, T. 8 S., R. 19 W.;

thence N. 86°02' W., 7.73 chains distance to Angle Point 15;  
thence S. 10°01' W., 7.95 chains distance to Angle Point 14;  
thence S. 57°24' W., 3.96 chains distance to Angle Point 13;  
thence S. 24°28' W., 3.00 chains distance to Angle Point 12;  
thence S. 45°23' W., 3.48 chains distance to Angle Point 11;  
thence S. 51°48' E., 1.42 chains distance to Angle Point 10;  
thence S. 34°30' W., 5.17 chains distance to Angle Point 9;  
thence S. 76°20' W., 4.85 chains distance to Angle Point 8;  
thence S. 49°42' W., 8.13 chains distance to Angle Point 7;  
thence S. 55°21' W., 3.76 chains distance to Angle Point 6;  
thence S. 76°16' W., 5.90 chains distance to Angle Point 5;  
thence S. 16°40' E., 3.97 chains distance to Angle Point 4;  
thence S. 31°00' W., 4.18 chains distance to Angle Point 3;  
thence S. 60°02' W., 8.36 chains distance to Angle Point 2;  
thence S. 35°12' W., 5.83 chains distance to Angle Point 1;  
thence on the east and west centerline of section 13,  
N. 89°57' E. 14.77 chains distance to the center 1/4 section  
corner of section 13;  
thence on the north and south centerline of section 13,  
S. 0°04' W., 39.98 chains distance to the 1/4 section corner  
of sections 13 and 24;  
thence on the line between sections 13 and 24, East,  
39.99 chains distance, to the corner of sections 13, 18, 19  
and 24; the point of beginning.

The following geographic positions determined by the technique of  
relative positioning using the Ashtech XII Geodetic Survey Unit,  
are provided for informational purposes only:

Angle Point 37, T. 8 S., R. 19 W., identical with Angle Point 1,  
T. 7 S., R. 19 W.

Latitude 32°45'55.91" Longitude 114°12'30.15" NAD 27

Angle Point 44, T. 8 S., R. 20 W.

Latitude 32°45'04.52" Longitude 114°17'43.11" NAD 27

CERTIFICATE OF SURVEY

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

The following field note record of the Survey of the descriptive boundary of the Muggins Mountains Wilderness Area in Townships 7 and 8 South, Ranges 19 and 20 West, 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 the Special Instructions dated March 12, 1991, and the Amended Supplemental Instructions dated April 18, 1991, for Group No. 729, 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 Muggins Mountains Wilderness Area in Townships 7 and 8 South, Ranges 19 and 20 West, Gila and Salt River Meridian, Arizona, executed by Stephen K. Hansen and Robin T. Mathews, Cadastral Surveyors, having been critically examined and found correct, are hereby approved.

APR 10 1992

(Date)



(Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in Townships 7 and 8 South, Ranges 19 and 20 West, Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~