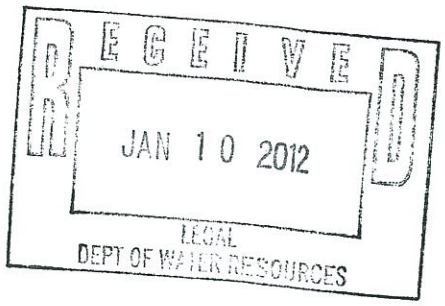
APPENDIX B

APPENDIX B-1

G 1-3-12



IGNACIA S. MORENO
Assistant Attorney General

R. LEE LEININGER
Attorney, U.S. Department of Justice
Environment and Natural Resources
Division
999 18th Street
South Terrace, Suite 370
Denver, CO 80202
Phone: (303) 844-1364
Fax: (303) 844-1350

Attorneys for the United States of America

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF MARICOPA

IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE	W1-11-3342 NOTICE OF SUBMISSION OF AMENDED STATEMENT OF CLAIMANT AND REQUEST TO STAY

CONTESTED CASE NAME: *In re Aravaipa Canyon Wilderness Area.*

HSR INVOLVED: San Pedro River Watershed Hydrographic Survey Report.

DESCRIPTIVE SUMMARY: The United States provides notice of submission of an Amended Statement of Claimant for its claim to a federal reserved water right for the Aravaipa Canyon Wilderness Area, and requests that the schedule for amendment of claims to Redfield Canyon Wilderness Area be stayed.

NUMBER OF PAGES: 4

DATE OF FILING: Original mailed to the Clerk of Court on January 3, 2012.

Pursuant to the Case Initiation Order and Designation of Initial Issues for Briefing, dated August 17, 2009, the United States provides notice of its filing of Amended Statement of Claimant No. 39-68704 showing the extent of its claims to federal reserved water rights for the Aravaipa Canyon Wilderness Area. A copy of the amended claim is attached as Exhibit A.

The United States was also ordered to file amendments to Statement of Claimant No. 39-14413 to show the extent of its claims to federal reserved water rights for the Redfield Canyon

Wilderness Area. In response to the United States' previous argument for a reserved right for Aravaipa Canyon Wilderness Area consisting of all the unappropriated water, the Court opined that the amount of water needed to fulfill the purposes of the wilderness area raises genuine issues of material fact, and indicated that principles learned at trial will guide the determination of the quantity reserved. *See* Order Determining the Initial Seven Issues Briefed, Civil No. W1-11-3342, dated November 2, 201, at 18. The question of the quantity of available water and water needed to fulfill the purposes of the wilderness area, therefore, is before the Court in the amended reserved claim to Aravaipa Canyon Wilderness Area. The principles learned in the determination of the reserved quantity in this contested case may assist in quantifying all future claims to water in wilderness areas, including Redfield Canyon Wilderness Area.

Accordingly, the United States respectfully moves for a stay of the order requiring amendment to Statement of Claimant No. 39-14413, the claim to a federal reserved water right for the Redfield Canyon Wilderness Area until after a decision on the quantity of water reserved for Aravaipa Canyon Wilderness Area is reached. The decision in the Aravaipa case may guide the claims, and whether there is a need to amend claims, of future wilderness reserved rights in Arizona including Redfield Canyon Wilderness Area.

RESPECTFULLY SUBMITTED this 3RD day of January 2012.

R. LEE LEININGER
TRIAL ATTORNEY

Certificate of Service

The original and one copy of the foregoing sent via Federal Express this 3RD day of January 2012 to:

Clerk of the Arizona Superior Court
Attn: Water Case
601 W. Jackson St.
Phoenix, AZ 85003

Special Master
Arizona General Stream Adjudication
George A. Schade, Jr.
201 W. Jefferson, CCB 5B
Phoenix AZ 85003-2205

A copy of the foregoing mailed this 3RD day of April 2011 to all parties on the Court-approved W1-11-3342 mailing list dated July 25, 2011.

R. Lee Leininger

RECEIVED
JAN 10 2012
LEGAL
DEPT OF WATER RESOURCES

For Departmental Use Only

STATEMENT OF CLAIMANT FORM
FOR
OTHER USES[1]
AMENDMENT
SUPERIOR COURT OF MARICOPA COUNTY

1. **Claimant Name:** U.S. Department of the Interior, Bureau of Land Management
   Claimant Address: One North Central Ave., Suite 800 **City** Phoenix
   State: Arizona **Zip Code** 85004-4427 **Telephone** (602) 417-9200

2. **Basis of Claim:**
   - A. ☐ Appropriation Right acquired prior to June 12, 1919. 1974 Water Rights Registration Act Registry No. _____
   - B. ☐ Appropriation Right acquired after June 12, 1919. Application No. _____, Permit No. _____; or Certificate of Water Right No. _____
   - C. ☐ Decreed water right. Principal litigants, court, date and case no. _____
   - D. ☐ Right to withdraw groundwater. Grandfathered Right No. _____
   - E. ☒ Other, describe: Federal Reserved Water Right - Arizona Wilderness Act of 1984, Pub. L. no. 98-406, 98 Stat 1485 (1984) AND Arizona Desert Wilderness Act of 1990, Pub. L. no. 101-628, 104 Stat 4469 (1990)

3. **Claimed Priority Date:** ___/___/___ (month/day/year)
   08 / 28 / 1984 (Instream flow and selected "Point" sources)
   11 / 28 / 1990 (Selected "Point" sources - see Attach. C-1)

4. **Use:**
   - A. ☐ Municipal
   - B. ☐ Commerical or Industrial
   - C. ☐ Mining
   - D. ☐ Stockwatering other than from a stockpond
   - E. ☐ Recreation, Fish & Wildlife
   - F. ☒ Other, describe: _____

5. **Source of Water:**
   - A. ☒ Stream: name Aravaipa Creek, tributary to San Pedro River
   - B. ☒ Spring: name See Attachment C, tributary to Aravaipa Creek
   - C. ☒ Lake or Reservoir: name See Attach. C, tributary to Aravaipa Creek
   - D. ☐ Groundwater.

6. **Legal description of the Point of Diversion:** (attach additional sheet if required) See Attachments A and C
   _____ ¼, _____ ¼, _____ ¼, Section _____, Township _____ N/S, Range _____ E/W

7. **If there are Irrigation, Domestic or Stockpond Uses also supplied from the Point of Diversion, describe:** Not Applicable

8. **Means of Diversion:**
   - A. ☐ Instream pump.
   - B. ☐ Gravity flow into a ditch, canal or pipeline.
   - C. ☐ Well: Arizona Department of Water Resources Well Registration No. 55-_____
   - D. ☒ Other, describe: Instream flow

[1] *See Instructions for explanation of uses in this category*

9. **Means of Conveyance:**

A. ☐ Ditch, canal or pipeline. If the means of conveyance is owned and/or operated by some other entity, please give name and address: _____

B. ☒ Other, describe: Not Applicable

10. **Place of Use, if other than point of diversion:** (attach additional sheet if required)

County Not Applicable (Pinal/Graham)

Legal Subdivision	Section	Township	Range
_____	_____	_____ N/S	_____ E/W
_____	_____	_____ N/S	_____ E/W

11. **Claimed Right:**

A. Maximum Flow Rate: _____ ☐ cubic-feet per second ☐ gallons per minute ☐ Arizona miner's inches

B. Annual Volume of Water Use: 24,799.03 acre-feet (See Attachments B and C)

C. Storage Right: _____ acre-feet

12. Attach photographs, maps or sketches necessary to show the point of diversion, storage resevoir(s) place(s) of use and means of conveyance. (See Attachments A and C)

13. It may be necessary for a representative from the Department of Water Resources to inspect the diversion, conveyance and place of use. Your signature following will grant permission to enter your property for the purpose of inspection: Signature of Claimant William E. Wells

14. Should it be necessary for a representative of the Department to contact you as the claimant or your representative, are there any special instructions regarding time of day or address to aid in locating the specified person? Normal business hours

15. Additional comments: The original Statement of Claimant (#39-68704) for a federal reserved water right within the Aravaipa Canyon Wilderness Area was filed in March 1991 and amended in October 1994 and February 1995.

(attach additional sheet if required)

16. Mail form(s) to: AZ DEPT OF WATER RESOURCES
ADJUDICATIONS
PO BOX 36020
PHOENIX AZ 85067-6020

17. **Notarized Statement:**

William E Wells

I (We), U.S. Department of the Interior, Bureau of Land Management the claimant(s) named in this claim, do hereby certify under penalty of perjury, that the information contained [illegible] to the best of my (our) knowledge and belief true, correct and complete.

CHELSEA DEBEE
Notary Public - Arizona
Pima County
My Comm. Expires Sep 18, 2015
(seal)

expires Sep 18, 2015
My Commission Expires

_____
_____
_____
Notary Public

or, _____
Authorized Personnel of the Department of Water Resources

List of Attachments

FEDERAL RESERVED WATER RIGHT - ARAVAIPA CANYON WILDERNESS AREA (ACWA)
STATEMENT OF CLAIMANT NO. 39 - 68704

ATTACHMENT A

Places of Use

ACWA geographic boundary as defined in:

- Arizona Wilderness Act of 1984, Pub. L. no. 98-406, 98 Stat 1485 (1984) and;
- Arizona Desert Wilderness Act of 1990, Pub. L. no. 101-628, 104 Stat 4469 (1990).

Map A also includes the location of the USGS stream gauge station.

ATTACHMENT B

Surface Water Flows

Aravaipa Creek instream flow claim within the ACWA boundary with discussion.

ATTACHMENT C

"Point" Water Sources

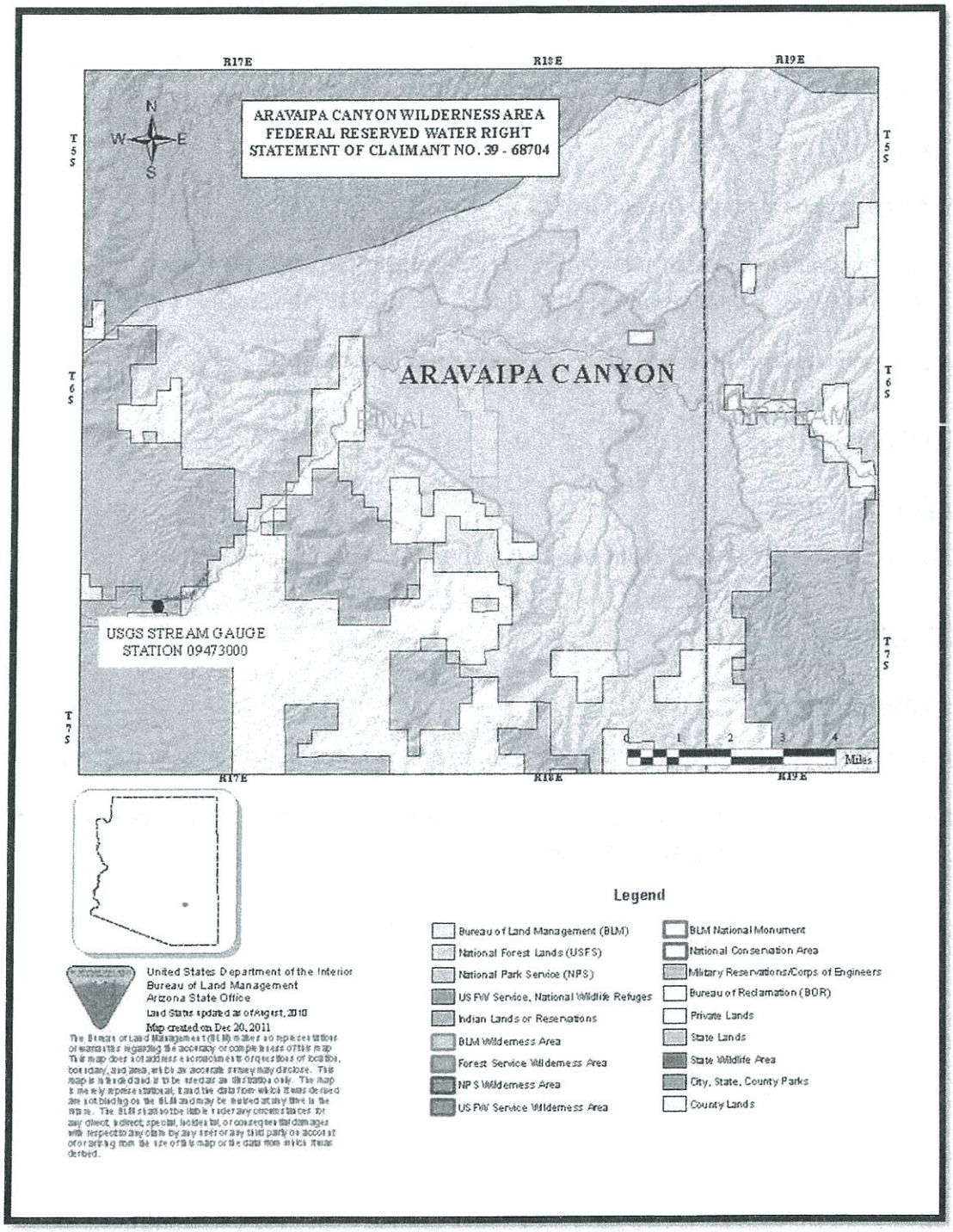
Attachment C-1: Summary Table of Springs, Lakes or Reservoirs, Tanks, and Stockponds.

Map C-1: Locations of Springs, Lakes or Reservoirs, Tanks, and Stockponds within the ACWA boundary.

ATTACHMENT A

FEDERAL RESERVED WATER RIGHT – ARAVAIPA CANYON WILDERNESS AREA (ACWA)

STATEMENT OF CLAIMANT FILE NO. 39 – 68704



December 2011

ATTACHMENT B

FEDERAL RESERVED WATER RIGHT – ARAVAIPA CANYON WILDERNESS AREA (ACWA)

STATEMENT OF CLAIMANT FILE NO. 39 - 68704

1. Required annual total volume: **24,600 acre-feet**. Date Claimed is Aug. 28, 1984.

Aravaipa Creek – Aravaipa Canyon Wilderness Area		
	Base Flow (cubic feet per second)	Volume (Acre-Feet)
January	16	982
February	18	998
March	18	1,105
April	13	772
May	10	614
June	6	356
July	10	614
August	14	859
September	12	713
October	11	675
November	12	713
December	17	1,043
Total Base Flow		9,444
Un-impounded Flood Flow		15,156
Total Claim		**24,600**

2. Estimated required flood flows(cfs)

Flood Flow Return Period	Estimated Flow (cfs)
2 Year	4,540
10 Year	15,600
25 Year	26,300
50 Year	37,000
100 Year	50,700

Discussion

Stream flow claims for Aravaipa Creek are based on complete year records between 1932 through 1984 at the USGS stream gauge located on Aravaipa Creek near Mammoth, AZ (09473000). Twenty-Eight complete year records existed during this period and included the following years: 1932-1940, 1942, and 1967-1984. The beginning of the analysis was set at 1932 to coincide with the installation and operation of the stream gauge. The end of the analysis was set at 1984 to coincide with the establishment of the Aravaipa Canyon Wilderness Area. Base flows for each month represent the median of all daily means for the indicated month in the period of record. Total volume claimed represents the mean of all annual volumes for the period of record. The difference between the sum of the monthly base flow claim and the total volume claimed represents the un-impounded natural runoff from seasonal storm events.

ATTACHMENT C

FEDERAL RESERVED WATER RIGHT – ARAVAIPA CANYON WILDERNESS AREA (ACWA)

STATEMENT OF CLAIMANT FILE NO. 39 – 68704

Point Sources

The Bureau of Land Management (BLM) claims discrete or "point" water sources with the ACWA. These sources may include:

- Springs and seeps
- Ponds and small lakes
- Any other naturally occurring waters (e.g., seasonal Cienegas, small riverside oxbow lakes, undiscovered seeps, springs, ponds, etc.) with the ACWA

Discussion

The amount of water claimed for springs and seeps is the measured flow and corresponding volume per annum. The amount of water claimed for ponds and small lakes is the maximum capacity.

Attachment C-1 identifies in table format each "point" source, its location, and amount claimed.

Map C-1 shows the approximate locations of the "point" sources within the geographic boundary of the ACWA which are included in this amendment.

ATTACHMENT C-1

FEDERAL RESERVED WATER RIGHT – ARAVAIPA CANYON WILDERNESS AREA (ACWA)

FOURTH AMENDMENT – STATEMENT OF CLAIMANT FILE NO. 39 – 68704

Point Source	Location	Date Claimed	Quantity (acre-feet)
	SPRINGS		
North Booger Spring	NW SE Sec 10, T6S, R18E	Nov. 28, 1990	0.80
East Booger Spring	SW SE Sec 10, T6S, R18E	Nov. 28, 1990	8.10
Natural Boundary Spring	SW SW Sec 7, T6S, R19E	Nov. 28, 1990	15.20
Hanging Spring	NW NW Sec 18, T6S, R19E	Nov. 28, 1990	80.00
Saltuna Spring	NW SE Sec 13, T6S, R18E	Aug. 28, 1984	58.00
Goat Spring	NW SW Sec 25, T6S, R18E	Aug. 28, 1984	1.61
Purgatory Spring	NW NW Sec 13, T6S, R18E	Aug. 28, 1984	0.80
Stone Cabin Spring	NW SW Sec 27, T6S, R18E	Nov. 28, 1990	0.12
Lower Stone Cabin Spring	NW NW Sec 27, T6S, R18E	Nov. 28, 1990	0.17
Lupie Seep	NW SW Sec 27, T6S, R18E	Nov. 28, 1990	0.10
Buggar Spring	NW SE Sec 8, T6S, R18E	Aug. 28, 1984	9.05
Janette Spring	SW NE Sec 7, T6S, R19E	Nov. 28, 1990	8.06
Rock Tub Spring	NW NE Sec 7, T6S, R19E	Nov. 28, 1990	0.80
McRae Spring	NE NE Sec 35, T6S, R18E	Nov. 28, 1990	0.13
SUBTOTAL			**182.94**

ATTACHMENT C-1

FEDERAL RESERVED WATER RIGHT – ARAVAIPA CANYON WILDERNESS AREA (ACWA)

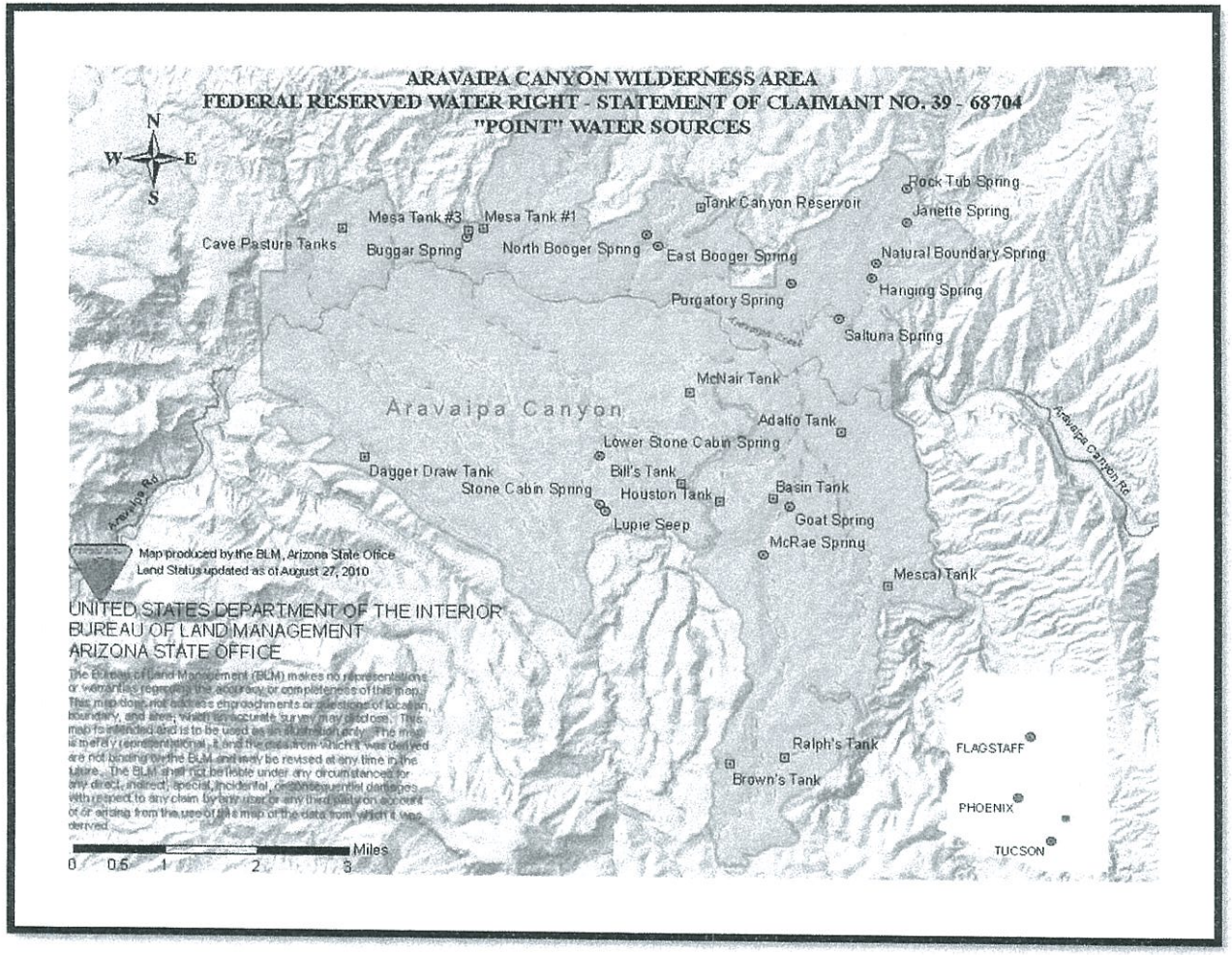
FOURTH AMENDMENT – STATEMENT OF CLAIMANT FILE NO. 39 – 68704

Point Source	Location	Date Claimed	Quantity (acre-feet)
		PONDS	
Cave Pasture Tanks	NE SW Sec 7, T6S, R18E	Nov. 28, 1990	0.09
Mesa Tank #1	SE NE Sec 8, T6S, R18E	Aug. 28, 1984	1.40
Basin Tank	NE SE Sec 26, T6S, R18E	Nov. 28, 1990	0.06
Houston Tank	NE SW Sec 26, T6S, R18E	Nov. 28, 1990	2.38
Bill's Tank	SE NE Sec 27, T6S, R18E	Nov. 28, 1990	0.50
Mescal Tank	NW SW Sec 31, T6S, R19E	Nov. 28, 1990	0.03
Brown's Tank	SE NW Sec 11, T7S, R18E	Nov. 28, 1990	2.22
Ralph's Tank	SW NW Sec 12, T7S, R18E	Nov. 28, 1990	2.13
McNair Tank	SW NW Sec 23, T6S, R18E	Nov. 28, 1990	3.08
Mesa Tank #3	NE SE Sec 8, T6S, R18E	Aug. 28, 1984	0.35
Dagger Draw Tank	NE NW Sec 30, T 6S, R18E	Nov. 28, 1990	3.25
Adalfo Tank	SW SE Sec 24, T6S, R18	Aug. 28, 1984	0.33
Tank Canyon Reservoir	SW NW Sec 11, T6S, R18E	Nov. 28, 1990	0.27
SUBTOTAL			**16.09**
GRAND TOTAL			**199.03**

MAP C-1

FEDERAL RESERVED WATER RIGHT – ARAVAIPA CANYON WILDERNESS AREA (ACWA)

FOURTH AMENDMENT – STATEMENT OF CLAIMANT FILE NO. 39 – 68704



December 2011

APPENDIX B-2

RECEIVED
JUL 2 3 2012
LEGAL
DEPT OF WATER RESOURCES

IGNACIA S. MORENO
Assistant Attorney General

R. LEE LEININGER
Attorney, U.S. Department of Justice
Environment and Natural Resources Division
999 18th Street
South Terrace, Suite 370
Denver, CO 80202
Phone: (303) 844-1364
Fax: (303) 844-1350

Attorneys for the United States of America

IN THE SUPERIOR COURT OF THE STATE OF ARIZONA
IN AND FOR THE COUNTY OF MARICOPA

IN RE THE GENERAL ADJUDICATION OF ALL RIGHTS TO USE WATER IN THE GILA RIVER SYSTEM AND SOURCE	W1-W4 (consolidated) Contested Case No. W1-11-3342 UNITED STATES' REPORT REGARDING SUBMISSION OF ARAVAIPA CANYON WILDERNESS AREA MAP AND LEGAL DESCRIPTION TO CONGRESS AND THE ACREAGE OF THE WILDERNESS AREA.

CONTESTED CASE NAME: *In re Aravaipa Canyon Wilderness Area.*

HSR INVOLVED: San Pedro River Watershed Hydrographic Survey Report.

DESCRIPTIVE SUMMARY: The United States reports on the submission of the legal boundary of the Aravaipa Canyon Wilderness Area and acreage contained therein.

NUMBER OF PAGES: 3

DATE OF FILING: Original mailed to the Clerk of Court on July 20, 2012.

The United States hereby submits the following pursuant to the April 17, 2012 Order allowing the United States additional time to file a report containing information on the transmittal of maps and legal descriptions to Congress and the acreage contained within the Aravaipa Canyon Wilderness Area. *See* Order Concerning the Requests of the United States for

(1) Additional Time to Submit Information and (2) the Submission of a Special Master's Report Civil No. W1-11-3342, at 5.

The United States Department of the Interior, Bureau of Land Management, conducted a recent cadastral survey of Aravaipa Canyon Wilderness Area (ACWA). The resulting maps and legal description of the ACWA were certified by the Chief Cadastral Surveyor on May 2, 2012. The maps and legal description were accepted by the State Director of the BLM on the same day. These maps and legal description supercedes all previous maps and descriptions of the wilderness area. A color copy of the maps (18 inches by 24 inches) is attached and provided the Court. Similar sized copies are available at the BLM State Office. Because of the size and expense of large color copies, however, the parties are provided reduced 8 ½ by 11 inch reproductions.

The certified and approved maps and legal description were transmitted to Congress in June. The Senate Energy & Natural Resources Committee acknowledged receipt of the congressionally-required maps and legal description on June 20, 2012. The House Natural Resources Committee acknowledged receipt of the congressionally-required maps and legal description on June 25, 2012. Copies of these transmittal documents are attached to this filing.

In addition, the Chief Cadastral Surveyor calculated that the ACWA contains 19,617 acres, more or less.

RESPECTFULLY SUBMITTED this 20th day of July 2012.

R. LEE LEININGER
ATTORNEY FOR THE UNITED STATES OF AMERICA

Certificate of Service

The original and one copy of the foregoing sent via Federal Express this 20th day of July 2012, to:

Clerk of the Arizona Superior Court
Attn: Water Case
3345 W. Durango Street
Phoenix, AZ 85009

Special Master
Arizona General Stream Adjudication
George A. Schade, Jr.
201 W. Jefferson, CCB 5B
Phoenix AZ 85003-2205

A copy of the foregoing mailed this 20th day of July 2012, to all parties on the Court-approved W1-11-3342 mailing list dated July 17, 2012.

R. Lee Leininger

Acknowledgment of Receipt
Aravaipa Canyon Wilderness
Maps and Legal Description

On behalf of the House Natural Resources Committee, I acknowledge receipt of the congressionally-required map and legal description for the Aravaipa Canyon Wilderness in Arizona, which was designated by the Arizona Wilderness Act of 1984 (Public Law 98-406) and expanded by the Arizona Desert Wilderness Act of 1990 (Public Law 101-628).

Signed: _____

Title: Clerk

Print Name: Bryson Wong

Date: 6/25/2012

Acknowledgment of Receipt
Aravaipa Canyon Wilderness
Maps and Legal Description

On behalf of the Senate Energy & Natural Resources Committee, I acknowledge receipt of the congressionally-required map and legal description for the Aravaipa Canyon Wilderness in Arizona, which was designated by the Arizona Wilderness Act of 1984 (Public Law 98-406) and expanded by the Arizona Desert Wilderness Act of 1990 (Public Law 101-628).

Signed: _____

Title: Staff Assistant

Print Name: John Assini

Date: 6/20/2012

NATIONAL WILDERNESS PRESERVATION SYSTEM

Aravaipa Canyon Wilderness

Arizona State Office

I hereby certify that the maps and legal boundary description herewith represents the boundary of Aravaipa Canyon Wilderness, which contains 19,617 acres, more or less. Aravaipa Canyon Wildreness is within the jurisdiction of the Arizona State Office.

Signed: Stephen K. Hansen Date: 5/02/2012
Chief Cadastral Surveyor

I hereby certify and accept the map and legal boundary description of Aravaipa Canyon Wilderness within the jurisdiction of the Arizona State Office as entered into the National Wilderness Preservation System under Public Law 98-406 and Public Law 101-628.

Signed: _____ Date: 5/02/2012
State Director

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Arizona State Office
One North Central Avenue, Suite 800
Phoenix, Arizona 85004
www.blm.gov/az/

May 2, 2012

In Reply Refer To:
6300 (9320)

Memorandum

To: Carl Rountree
Director (WO-400), Room 5168

From: Raymond Suazo
State Director

Subject: Aravaipa Canyon Wilderness Congressionally Required Maps and Legal Boundary Description

Attached, please find two file folders each containing the congressionally required maps and legal boundary description for the Aravaipa Canyon Wilderness, designated by the Arizona Desert Wilderness Act of 1990 (Public Law 101-628) and the Arizona Wilderness Act of 1984 (Public Law 98-406), for transmittal to Congressional Committee Chairs.

If you have questions about the maps or legal description, please contact Ken Mahoney, National Landscape Conservation System Coordinator, at 602-417-9238.

Attachments

Book 5927

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COMPOSITE FIELD NOTES

OF THE

SURVEY OF THE

LEGAL DESCRIPTIVE BOUNDARY

OF THE

ARAVAIPA CANYON WILDERNESS AREA

IN

TOWNSHIPS 7 SOUTH, RANGES 18 AND 19 EAST

AND TOWNSHIPS 6 SOUTH, RANGES 17 THRU 19 EAST

OF THE GILA AND SALT RIVER MERIDIAN,

IN THE STATE OF ARIZONA.

EXECUTED BY

Gordon R. Bubel and Geoffrey A. Graham, Cadastral Surveyors

Under Special Instructions dated January 17, 2001, approved January 17, 2001, and Supplemental Special Instructions dated February 14, 2011, approved February 14, 2011, which provided for the surveys included under Group No. 860 and assignment instructions dated January 17, 2001, and February 14, 2011.

Survey commenced February 12, 2001

Survey completed February 16, 2011

Tps. 7 S., Rs. 18 and 19 E. and
Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS

The approval of these composite field notes will constitute the legal description of the Aravaipa Canyon 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 Aravaipa Canyon Wilderness Area in Townships 7 South, Ranges 18 and 19 East and Townships 6 South, Ranges 17 thru 19 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.

This 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 January 17, 2001, and Supplemental Special Instructions dated February 14, 2011, for Group Number 860, Arizona.

For detailed information regarding monumentation and topography, refer to the field note record for that particular township.

The distances and directions of all lines were determined by use of the Trimble 4400 and 5800 real time kinematic surveying system, and refer to the true meridian.

Geodetic control was derived by differential positioning using the Trimble Navigation 4400 Series global positioning system. United States Coast and Geodetic Survey triangulation station "DEER 1946" was used as the control station. The geographic position of the cor. of secs. 1 and 12 only, on the E. bdy. of T. 7 S., R. 18 E. is as follows:

Latitude: 33°50'45.54" N. Longitude: 110°26'54.68" W.
NAD 83 (1992)

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS

In Township 7 South, Range 18 East

Beginning at Angle Point 1, sec. 4, identical with Angle Point 12, sec. 33, T. 6 S., R. 18 E., on the line bet. secs. 4 and 33, on the N. bdy. of the Tp.

thence S. 38°58' E., 4.03 chs. dist., to Angle Point 2, sec. 4;
thence N. 88°25' E., 2.65 chs. dist., to Angle Point 3, sec. 4;
thence N. 33°43' E., 3.67 chs. dist., to Angle Point 4, sec. 4, identical with Angle Point 13, sec. 33, T. 6 S., R. 18 E., on the line bet. secs. 4 and 33, on the N. bdy. of the Tp.

In Township 6 South, Range 18 East

From Angle Point 13, sec. 33, identical with Angle Point 4, sec. 4, T. 7 S., R. 18 E., on the line bet. secs. 33 and 4, on the S. bdy. of the Tp.

thence N. 33°29' E., 10.13 chs. dist. to Angle Point 14, sec. 33;
thence N. 63°06' E., 3.10 chs. dist. to Angle Point 15, sec. 33;
thence N. 12°58' E., 5.18 chs. dist. to Angle Point 16, sec. 33;
thence N. 24°22' E., 6.12 chs. dist. to Angle Point 17, sec. 33;
thence N. 11°40' W., 2.97 chs. dist. to Angle Point 18, sec. 33;
thence N. 7°31' W., 8.38 chs. dist. to Angle Point 19, sec. 33;
thence N. 6°10' E., 7.07 chs. dist. to Angle Point 20, sec. 33;
thence N. 25°24' W., 3.65 chs. dist. to Angle Point 21, sec. 33;
thence N. 57°15' W., 6.83 chs. dist. to Angle Point 22, sec. 33;
thence N. 27°24' W., 6.47 chs. dist. to Angle Point 23, sec. 33;
thence N. 0°01' W., 4.21 chs. dist. to Angle Point 24, sec. 33;
thence N. 9°38' E., 6.47 chs. dist. to Angle Point 25, sec. 33;
thence N. 63°43' E., 8.72 chs. dist. to Angle Point 26, sec. 33;
thence N. 15°23' E., 4.70 chs. dist. to Angle Point 27, sec. 33;
thence N. 17°36' E., 5.00 chs. dist. to Angle Point 28, sec. 33, identical with Angle Point 1, sec. 34,, on the line bet. secs. 33 and 34;
thence N. 22°17' E., 2.78 chs. dist. to Angle Point 2, sec. 34;
thence N. 17°07' W., 2.25 chs. dist. to Angle Point 3, sec. 34, identical with Angle Point 1, sec. 27, on the line bet. secs. 27 and 34;
thence N. 17°07' W., 1.21 chs. dist. to Angle Point 2, sec. 27;
thence N. 8°19' E., 2.91 chs. dist. to Angle Point 3, sec. 27;
thence N. 81°01' E., 5.64 chs. dist. to Angle Point 4, sec. 27;
thence N. 46°28' E., 4.30 chs. dist. to Angle Point 5, sec. 27;
thence N. 35°21' E., 3.09 chs. dist. to Angle Point 6, sec. 27;
thence S. 86°24' E., 19.90 chs. dist. to Angle Point 7, sec. 27;
thence S. 27°22' E., 8.13 chs. dist. to Angle Point 8, sec. 27;
thence N. 89°28' E., 11.51 chs. dist. to Angle Point 9, sec. 27;
thence N. 87°58' E., 10.81 chs. dist. to Angle Point 10, sec. 27;
thence N. 73°34' E., 3.68 chs. dist. to Angle Point 11, sec. 27;

**Survey of the Legal Descriptive Boundary
of the Aravaipa Canyon Wilderness Area,
Tps. 7 S., Rs. 18 and 19 E. and
Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	thence N. 0°52' E., 9.57 chs. dist. to Angle Point 12, sec. 27; thence S. 86°04' E., 7.18 chs. dist. to Angle Point 13, sec. 27; thence S. 34°02' E., 3.25 chs. dist. to Angle Point 14, sec. 27; thence S. 9°50' E., 4.89 chs. dist. to Angle Point 15, sec. 27; thence S. 41°11' E., 5.16 chs. dist. to Angle Point 16, sec. 27; thence S. 48°03' E., 1.45 chs. dist. to Angle Point 17, sec. 27, identical with Angle Point 4, sec. 34, on the line bet. secs. 27 and 34; thence S. 48°03' E., 4.42 chs. dist., to Angle Point 5, sec. 34; thence S. 70°41' E., 2.14 chs. dist., to Angle Point 6, sec. 34, identical with Angle Point 1, sec. 35, on the line bet. secs. 34 and 35; thence S. 70°41' E., 1.05 chs. dist., to Angle Point 2, sec. 35; thence S. 41°14' E., 5.31 chs. dist., to Angle Point 3, sec. 35; thence S. 80°43' E., 5.07 chs. dist., to Angle Point 4, sec. 35; thence S. 9°43' E., 2.09 chs. dist., to Angle Point 5, sec. 35; thence S. 42°47' W., 2.92 chs. dist., to Angle Point 6, sec. 35; thence N. 82°21' E., 7.15 chs. dist., to Angle Point 7, sec. 35; thence N. 2°45' W., 5.25 chs. dist., to Angle Point 8, sec. 35; thence N. 84°35' E., 4.07 chs. dist., to Angle Point 9, sec. 35; thence N. 59°10' E., 3.74 chs. dist., to Angle Point 10, sec. 35; thence N. 47°44' W., 6.74 chs. dist., to Angle Point 11, sec. 35, identical with Angle Point 1, sec. 26,, on the line bet. secs. 26 and 35; thence N. 17°45' W., 1.91 chs. dist., to Angle Point 2, sec. 26; thence N. 68°03' E., 4.16 chs. dist., to Angle Point 3, sec. 26; thence N. 78°53' E., 5.19 chs. dist., to Angle Point 4, sec. 26; thence N. 56°15' E., 3.54 chs. dist., to Angle Point 5, sec. 26; thence N. 53°30' W., 6.79 chs. dist., to Angle Point 6, sec. 26; thence N. 36°39' W., 12.12 chs. dist., to Angle Point 7, sec. 26; thence N. 30°41' E., 8.63 chs. dist., to Angle Point 8, sec. 26; thence N. 3°41' W., 4.75 chs. dist., to Angle Point 9, sec. 26; thence N. 74°28' W., 8.12 chs. dist., to Angle Point 10, sec. 26; thence N. 46°49' W., 9.12 chs. dist., to Angle Point 11, sec. 26; thence N. 15°47' W., 5.63 chs. dist., to Angle Point 12, sec. 26; thence N. 0°14' W., 7.18 chs. dist., to Angle Point 13, sec. 26; thence N. 42°17' E., 6.39 chs. dist., to Angle Point 14, sec. 26; thence N. 22°08' E., 5.39 chs. dist., to Angle Point 15, sec. 26; thence N. 55°42' E., 11.06 chs. dist., to Angle Point 16, sec. 26; thence N. 64°12' E., 5.26 chs. dist., to Angle Point 17, sec. 26; thence N. 72°41' E., 5.94 chs. dist., to Angle Point 18, sec. 26; thence N. 10°06' W., 4.18 chs. dist., to Angle Point 19, sec. 26;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS	
	thence S. 69°50' E., 5.16 chs. dist., to Angle Point 20, sec. 26; thence N. 14°52' E., 4.67 chs. dist., to Angle Point 21, sec. 26, identical with Angle Point 1, sec. 23, on the line bet. secs. 23 and 26; thence N. 14°52' E., 1.92 chs. dist., to Angle Point 2, sec. 23; thence N. 16°24' E., 8.44 chs. dist., to Angle Point 3, sec. 23; thence S. 87°33' E., 7.32 chs. dist., to Angle Point 4, sec. 23; thence N. 27°02' E., 4.27 chs. dist., to Angle Point 5, sec. 23; thence N. 89°47' E., 1.64 chs. dist., to Angle Point 6, sec. 23; thence S. 44°10' E., 5.12 chs. dist., to Angle Point 7, sec. 23; thence N. 54°13' E., 6.81 chs. dist., to Angle Point 8, sec. 23; thence N. 29°43' E., 6.89 chs. dist., to Angle Point 9, sec. 23; thence N. 9°29' W., 4.70 chs. dist., to Angle Point 10, sec. 23; thence N. 44°37' W., 4.83 chs. dist., to Angle Point 11, sec. 23; thence N. 25°56' W., 7.40 chs. dist., to Angle Point 12, sec. 23; thence N. 80°00' W., 5.92 chs. dist., to Angle Point 13, sec. 23; thence N. 80°53' W., 6.94 chs. dist., to Angle Point 14, sec. 23; thence S. 76°30' W., 7.19 chs. dist., to Angle Point 15, sec. 23; thence N. 59°03' W., 3.06 chs. dist., to Angle Point 16, sec. 23; thence N. 27°49' W., 6.60 chs. dist., to Angle Point 17, sec. 23; thence N. 34°22' E., 5.17 chs. dist., to Angle Point 18, sec. 23; thence N. 17°06' E., 6.04 chs. dist., to Angle Point 19, sec. 23; thence N. 65°05' W., 4.69 chs. dist., to Angle Point 20, sec. 23; thence N. 46°38' W., 5.20 chs. dist., to Angle Point 21, sec. 23; thence N. 5°37' W., 2.54 chs. dist., to Angle Point 22, sec. 23; thence N. 18°14' E., 1.48 chs. dist., to Angle Point 23, sec. 23; thence S. 86°25' E., 3.01 chs. dist., to Angle Point 24, sec. 23; thence S. 81°37' E., 2.36 chs. dist., to Angle Point 25, sec. 23; thence S. 3°16' W., 5.95 chs. dist., to Angle Point 26, sec. 23; thence S. 78°26' E., 3.54 chs. dist., to Angle Point 27, sec. 23; thence S. 20°30' E., 2.62 chs. dist., to Angle Point 28, sec. 23; thence S. 20°22' W., 7.56 chs. dist., to Angle Point 29, sec. 23; thence S. 16°52' W., 4.97 chs. dist., to Angle Point 30, sec. 23;

**Survey of the Legal Descriptive Boundary
of the Aravaipa Canyon Wilderness Area,
Tps. 7 S., Rs. 18 and 19 E. and
Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	thence S. 36°36' E., 3.08 chs. dist., to Angle Point 31, sec. 23;
	thence N. 88°58' E., 11.70 chs. dist., to Angle Point 32, sec. 23;
	thence S. 74°55' E., 4.30 chs. dist., to Angle Point 33, sec. 23;
	thence S. 80°54' E., 6.04 chs. dist., to Angle Point 34, sec. 23;
	thence S. 60°04' E., 7.27 chs. dist., to Angle Point 35, sec. 23;
	thence S. 8°38' E., 13.01 chs. dist., to Angle Point 36, sec. 23;
	thence S. 30°00' W., 3.82 chs. dist., to Angle Point 37, sec. 23;
	thence S. 29°43' W., 6.70 chs. dist., to Angle Point 38, sec. 23;
	thence S. 63°06' W., 4.49 chs. dist., to Angle Point 39, sec. 23;
	thence N. 82°13' W., 2.33 chs. dist., to Angle Point 40, sec. 23;
	thence N. 38°43' W., 4.72 chs. dist., to Angle Point 41, sec. 23;
	thence S. 22°15' W., 3.72 chs. dist., to Angle Point 42, sec. 23;
	thence S. 71°47' W., 3.00 chs. dist., to Angle Point 43, sec. 23;
	thence N. 89°14' W., 4.99 chs. dist., to Angle Point 44, sec. 23;
	thence S. 12°24' W., 5.28 chs. dist., to Angle Point 45, sec. 23;
	thence S. 17°13' W., 3.05 chs. dist., to Angle Point 46, sec. 23, identical with Angle Point 22, sec. 26, on the line bet. secs. 23 and 26.
	thence S. 17°13' W., 5.80 chs. dist., to Angle Point 23, sec. 26;
	thence S. 59°17' W., 5.08 chs. dist., to Angle Point 24, sec. 26;
	thence S. 75°46' W., 6.54 chs. dist., to Angle Point 25, sec. 26;
	thence S. 51°55' W., 11.41 chs. dist., to Angle Point 26, sec. 26;
	thence S. 45°10' W., 6.69 chs. dist., to Angle Point 27, sec. 26;
	thence S. 24°41' W., 5.27 chs. dist., to Angle Point 28, sec. 26;
	thence S. 65°01' W., 3.37 chs. dist., to Angle Point 29, sec. 26;
	thence S. 8°45' E., 6.96 chs. dist., to Angle Point 30, sec. 26;
	thence S. 3°25' E., 4.65 chs. dist., to Angle Point 31, sec. 26;
	thence S. 49°49' E., 6.31 chs. dist., to Angle Point 32, sec. 26;
	thence S. 71°24' E., 7.98 chs. dist., to Angle Point 33, sec. 26;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS	
	thence S. 53°38' E., 3.43 chs. dist., to Angle Point 34, sec. 26;
	thence S. 1°49' W., 5.12 chs. dist., to Angle Point 35, sec. 26;
	thence S. 30°40' W., 8.44 chs. dist., to Angle Point 36, sec. 26;
	thence S. 36°42' E., 11.10 chs. dist., to Angle Point 37, sec. 26;
	thence S. 56°33' E., 6.24 chs. dist., to Angle Point 38, sec. 26;
	thence S. 10°49' E., 2.20 chs. dist., to Angle Point 39, sec. 26;
	thence S. 46°47' W., 6.66 chs. dist., to Angle Point 40, sec. 26;
	thence S. 81°32' W., 5.63 chs. dist., to Angle Point 41, sec. 26, identical with Angle Point 12, sec 35, on the line bet. secs. 26 and 35;
	thence S. 54°48' E., 4.51 chs. dist., to Angle Point 13, sec. 35;
	thence S. 24°20' E., 5.40 chs. dist., to Angle Point 14, sec. 35;
	thence N. 82°37' W., 4.57 chs. dist., to Angle Point 15, sec. 35;
	thence S. 34°14' W., 8.08 chs. dist., to Angle Point 16, sec. 35;
	thence S. 79°16' W., 8.16 chs. dist., to Angle Point 17, sec. 35;
	thence S. 35°06' W., 10.35 chs. dist., to Angle Point 18, sec. 35;
	thence S. 35°10' E., 5.87 chs. dist., to Angle Point 19, sec. 35;
	thence S. 79°47' E., 7.27 chs. dist., to Angle Point 20, sec. 35;
	thence S. 78°59' E., 3.76 chs. dist., to Angle Point 21, sec. 35;
	thence S. 31°19' E., 13.21 chs. dist., to Angle Point 22, sec. 35;
	thence S. 37°07' E., 5.17 chs. dist., to Angle Point 23, sec. 35;
	thence S. 21°43' E., 10.80 chs. dist., to Angle Point 24, sec. 35;
	thence S. 64°46' E., 7.81 chs. dist., to Angle Point 25, sec. 35;
	thence S. 61°07' E., 6.69 chs. dist., to Angle Point 26, sec. 35;
	thence S. 38°56' E., 5.36 chs. dist., to Angle Point 27, sec. 35;
	thence S. 18°29' E., 4.93 chs. dist., to Angle Point 28, sec. 35;
	thence S. 13°13' W., 8.98 chs. dist., to Angle Point 29, sec. 35, identical with Angle Point 1, sec. 2, T. 7 S., R 18 E., on the line bet. secs. 2 and 35, on the S. bdy. of the Tp.

Book 5927

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS

In Township 7 South, Range 18 East

From Angle Point 1, sec. 2, identical with Angle Point 29, sec. 35, T. 6 S., R. 18 E., on the line bet. secs. 2 and 35, on the N. bdy. of the Tp.

thence S. 1°23' W., 7.11 chs. dist., to Angle Point 2, sec. 2;
thence S. 41°15' E., 7.27 chs. dist., to Angle Point 3, sec. 2;
thence S. 9°54' E., 8.14 chs. dist., to Angle Point 4, sec. 2;
thence S. 10°36' W., 7.88 chs. dist., to Angle Point 5, sec. 2;
thence S. 6°56' W., 4.62 chs. dist., to Angle Point 6, sec. 2;
thence S. 21°42' W., 1.78 chs. dist., to Angle Point 7, sec. 2;
thence S. 31°22' E., 9.72 chs. dist., to Angle Point 8, sec. 2;
thence S. 25°24' E., 1.98 chs. dist., to Angle Point 9, sec. 2;
thence S. 14°43' W., 4.67 chs. dist., to Angle Point 10, sec. 2;
thence S. 28°20' W., 3.62 chs. dist., to Angle Point 11, sec. 2;
thence S. 31°10' W., 15.38 chs. dist., to Angle Point 12, sec. 2;
thence S. 32°55' W., 5.25 chs. dist., to Angle Point 13, sec. 2;
thence S. 58°25' W., 4.26 chs. dist., to Angle Point 14, sec. 2;
thence S. 38°29' W., 8.91 chs. dist., to Angle Point 15, sec. 2;
thence S. 2°39' W., 6.42 chs. dist., to Angle Point 16, sec. 2, identical with Angle Point 1, sec. 11, on the line bet. secs. 2 and 11;
thence S. 13°42' W., 11.00 chs. dist., to Angle Point 2, sec. 11;
thence S. 53°30' W., 7.82 chs. dist., to Angle Point 3, sec. 11;
thence S. 41°38' W., 3.63 chs. dist., to Angle Point 4, sec. 11;
thence S. 3°14' E., 5.43 chs. dist., to Angle Point 5, sec. 11;
thence S. 40°40' E., 7.52 chs. dist., to Angle Point 6, sec. 11;
thence S. 34°10' W., 11.59 chs. dist., to Angle Point 7, sec. 11;
thence S. 19°09' E., 7.23 chs. dist., to Angle Point 8, sec. 11;
thence S. 45°55' E., 1.98 chs. dist., to Angle Point 9, sec. 11;
thence S. 37°34' W., 4.49 chs. dist., to Angle Point 10, sec. 11;
thence S. 11°04' E., 7.83 chs. dist., to Angle Point 11, sec. 11;
thence S. 1°48' W., 8.32 chs. dist., to Angle Point 12, sec. 11;
thence S. 46°28' W., 3.86 chs. dist., to Angle Point 13, sec. 11;
thence S. 9°11' E., 8.35 chs. dist., to Angle Point 14, sec. 11;
thence S. 41°10' W., 3.56 chs. dist., to Angle Point 15, sec. 11, identical with Angle Point 1, sec. 14, on the line bet. secs. 11 and 14;
thence S. 16°05' W., 5.31 chs. dist., to Angle Point 2, sec. 14;
thence S. 27°25' E., 9.15 chs. dist., to Angle Point 3, sec. 14;
thence S. 25°51' E., 9.38 chs. dist., to Angle Point 4, sec. 14;
thence S. 8°45' E., 13.47 chs. dist., to Angle Point 5, sec. 14;
thence N. 89°56' E., 2.42 chs. dist., to Angle Point 6, sec. 14;
thence N. 89°57' E., 4.95 chs. dist., to Angle Point 7, sec. 14;
thence S. 0°14' E., 1.69 chs. dist., to Angle Point 8, sec. 14;
thence S. 75°36' E., 9.06 chs. dist., to Angle Point 9, sec. 14;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS

thence S. 79°45' E., 8.09 chs. dist., to Angle Point 10, sec. 14;
thence N. 51°28' E., 5.11 chs. dist., to Angle Point 11, sec. 14;
thence N. 51°13' W., 9.31 chs. dist., to Angle Point 12, sec. 14;
thence N. 13°01' E., 2.55 chs. dist., to Angle Point 13, sec. 14;
thence S. 67°29' E., 4.60 chs. dist., to Angle Point 14, sec. 14;
thence S. 87°33' E., 6.72 chs. dist., to Angle Point 15, sec. 14;
thence N. 50°39' E., 2.85 chs. dist., to Angle Point 16, sec. 14;
thence N. 54°16' E., 8.54 chs. dist., to Angle Point 17, sec. 14;
thence N. 67°49' E., 8.21 chs. dist., to Angle Point 18, sec. 14;
thence S. 85°14' E., 3.21 chs. dist., to Angle Point 19, sec. 14, identical with Angle Point 1, sec. 13,, on the line bet. secs. 13 and 14;
thence S. 86°50' E., 6.43 chs. dist., to Angle Point 2, sec. 13;
thence N. 72°48' E., 4.91 chs. dist., to Angle Point 3, sec. 13;
thence N. 74°37' E., 4.98 chs. dist., to Angle Point 4, sec. 13;
thence N. 46°45' E., 1.85 chs. dist., to Angle Point 5, sec. 13;
thence N. 1°08' W., 7.91 chs. dist., to Angle Point 6, sec. 13;
thence N. 89°07' W., 4.76 chs. dist., to Angle Point 7, sec. 13;
thence N. 0°45' W., 6.57 chs. dist., to Angle Point 8, sec. 13;
thence N. 26°46' W., 3.37 chs. dist., to Angle Point 9, sec. 13, identical with Angle Point 1, sec. 12,, on the line bet. secs. 12 and 13;
thence N. 76°27' W., 3.79 chs. dist., to Angle Point 2, sec. 12;
thence N. 51°07' W., 7.27 chs. dist., to Angle Point 3, sec. 12;
thence N. 17°45' E., 8.31 chs. dist., to Angle Point 4, sec. 12;
thence N. 42°11' E., 6.88 chs. dist., to Angle Point 5, sec. 12;
thence N. 67°49' E., 11.59 chs. dist., to Angle Point 6, sec. 12;
thence N. 23°18' E., 2.50 chs. dist., to Angle Point 7, sec. 12;
thence N. 65°47' E., 9.35 chs. dist., to Angle Point 8, sec. 12;
thence N. 44°52' E., 19.95 chs. dist., to Angle Point 9, sec. 12;
thence N. 58°37' E., 6.64 chs. dist., to Angle Point 10, sec. 12;
thence N. 40°44' E., 5.90 chs. dist., to Angle Point 11, sec. 12;
thence N. 9°58' E., 6.75 chs. dist., to Angle Point 12, sec. 12;
thence N. 1°17' E., 6.86 chs. dist., to Angle Point 13, sec. 12;
thence S. 77°31' E., 3.50 chs. dist., to Angle Point 14, sec. 12;
thence N. 45°53' E., 6.77 chs. dist., to Angle Point 15, sec. 12;
thence N. 68°44' E., 5.83 chs. dist., to Angle Point 16, sec. 12;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS

thence N. 10°42' W., 9.34 chs. dist., to Angle Point 17, sec. 12, identical with Angle Point 1, sec. 1, on the line bet. secs. 1 and 12;
thence N. 11°51' W., 2.54 chs. dist., to Angle Point 2, sec. 1;
thence N. 38°01' E., 8.90 chs. dist., to Angle Point 3, sec. 1;
thence N. 77°30' W., 2.29 chs. dist., to Angle Point 4, sec. 1;
thence N. 12°35' E., 3.16 chs. dist., to Angle Point 5, sec. 1;
thence N. 25°17' E., 2.20 chs. dist., to Angle Point 6, sec. 1;
thence N. 29°26' W., 3.75 chs. dist., to Angle Point 7, sec. 1;
thence N. 17°38' W., 5.80 chs. dist., to Angle Point 8, sec. 1;
thence N. 59°20' W., 2.24 chs. dist., to Angle Point 9, sec. 1;
thence N. 32°08' W., 6.37 chs. dist., to Angle Point 10, sec. 1;
thence S. 53°53' W., 6.67 chs. dist., to Angle Point 11, sec. 1;
thence S. 72°53' W., 2.95 chs. dist., to Angle Point 12, sec. 1;
thence S. 77°38' W., 3.72 chs. dist., to Angle Point 13, sec. 1;
thence S. 79°26' W., 5.52 chs. dist., to Angle Point 14, sec. 1;
thence N. 25°16' W., 4.34 chs. dist., to Angle Point 15, sec. 1;
thence S. 15°18' W., 2.18 chs. dist., to Angle Point 16, sec. 1;
thence S. 73°32' W., 2.34 chs. dist., to Angle Point 17, sec. 1;
thence N. 47°12' W., 5.24 chs. dist., to Angle Point 18, sec. 1;
thence N. 14°29' W., 5.13 chs. dist., to Angle Point 19, sec. 1;
thence S. 69°39' W., 4.24 chs. dist., to Angle Point 20, sec. 1;
thence N. 33°18' W., 5.62 chs. dist., to Angle Point 21, sec. 1;
thence N. 61°45' E., 4.39 chs. dist., to Angle Point 22, sec. 1;
thence S. 43°44' E., 6.78 chs. dist., to Angle Point 23, sec. 1;
thence S. 11°41' E., 4.48 chs. dist., to Angle Point 24, sec. 1;
thence S. 44°58' E., 3.34 chs. dist., to Angle Point 25, sec. 1;
thence N. 57°25' E., 5.05 chs. dist., to Angle Point 26, sec. 1;
thence S. 20°18' E., 4.80 chs. dist., to Angle Point 27, sec. 1;
thence N. 77°27' E., 9.00 chs. dist., to Angle Point 28, sec. 1;
thence N. 57°07' E., 11.52 chs. dist., to Angle Point 29, sec. 1;
thence S. 17°24' E., 8.29 chs. dist., to Angle Point 30, sec. 1;
thence S. 77°59' E., 1.58 chs. dist., to Angle Point 31, sec. 1;
thence S. 20°37' E., 11.47 chs. dist., to Angle Point 32, sec. 1;
thence S. 9°48' E., 5.16 chs. dist., to Angle Point 33, sec. 1;
thence S. 24°45' E., 2.98 chs. dist., to Angle Point 34, sec. 1;
thence N. 72°46' E., 4.64 chs. dist., to Angle Point 35, sec. 1;
thence N. 8°11' W., 15.25 chs. dist., to Angle Point 36, sec. 1;
thence N. 9°02' W., 5.02 chs. dist., to Angle Point 37, sec. 1;
thence N. 65°42' E., 6.29 chs. dist., to Angle Point 38, sec. 1, identical with Angle Point 1, sec. 6, T. 7 S., R. 18 E., on the line bet. secs. 1 and 6, on the E. bdy. of the Tp.

In Township 7 South, Range 19 East

From Angle Point 1,sec. 6, identical with Angle Point 38, sec. 1, T. 7 S., R. 18 E., on the line bet. secs. 1 and 6, on the W. bdy. of the Tp.

thence N. 28°10' E., 8.48 chs. dist., to Angle Point 2, sec. 6;

CHAINS

thence N. 48°37' E., 5.26 chs. dist., to Angle Point 3, sec. 6;
thence N. 21°58' W., 9.80 chs. dist., to Angle Point 4, sec. 6;
thence N. 42°31' E., 4.77 chs. dist., to Angle Point 5, sec. 6;
thence N. 2°55' W., 12.30 chs. dist., to Angle Point 6, sec. 6;
thence N. 27°27' E., 4.60 chs. dist., to Angle Point 7, sec. 6;
thence N. 1°42' E., 6.83 chs. dist., to Angle Point 8, sec. 6;
thence N. 33°00' W., 4.60 chs. dist., to Angle Point 9, sec. 6;
thence N. 13°51' E., 4.63 chs. dist., to Angle Point 10, sec. 6, identical with Angle Point 1, sec. 31, T. 6 S., R. 19 E., on the line bet. secs. 6 and 31, on the N. bdy. of the Tp.

In Township 6 South, Range 19 East

From Angle Point 1, sec. 31, identical with Angle Point 10, sec. 6, T. 7 S., R. 19 E., on the line bet. secs. 6 and 31, on the S. bdy. of the Tp.

thence N. 29°18' W., 3.41 chs. dist., to Angle Point 2, sec. 31;
thence N. 1°38' E., 2.01 chs. dist., to Angle Point 3, sec. 31;
thence S. 75°51' E., 1.52 chs. dist., to Angle Point 4, sec. 31;
thence S. 50°28' E., 3.31 chs. dist., to Angle Point 5, sec. 31;
thence N. 19°38' W., 5.51 chs. dist., to Angle Point 6, sec. 31;
thence N. 9°54' W., 2.17 chs. dist., to Angle Point 7, sec. 31;
thence N. 13°12' E., 3.80 chs. dist., to Angle Point 8, sec. 31;
thence N. 20°54' E., 4.76 chs. dist., to Angle Point 9, sec. 31;
thence N. 30°25' E., 10.62 chs. dist., to Angle Point 10, sec. 31;
thence N. 74°32' E., 1.36 chs. dist., to Angle Point 11, sec. 31;
thence S. 35°10' E., 1.24 chs. dist., to Angle Point 12, sec. 31;
thence S. 25°36' E., 3.26 chs. dist., to Angle Point 13, sec. 31;
thence N. 79°27' E., 13.46 chs. dist., to Angle Point 14, sec. 31;
thence S. 86°04' E., 11.18 chs. dist., to Angle Point 15, sec. 31;
thence S. 35°27' E., 3.18 chs. dist., to Angle Point 16, sec. 31;
thence N. 88°53' E., 7.03 chs. dist., to Angle Point 17, sec. 31;
thence S. 27°46' E., 4.45 chs. dist., to Angle Point 18, sec. 31;
thence N. 58°54' E., 3.46 chs. dist., to Angle Point 19, sec. 31;
thence S. 70°56' E., 2.69 chs. dist., to Angle Point 20, sec. 31, identical with Angle Point 1, sec. 32, on the line bet. secs. 31 and 32;
thence S. 55°37' E., 3.99 chs. dist., to Angle Point 2, sec. 32;
thence N. 87°45' E., 6.57 chs. dist., to Angle Point 3, sec. 32;
thence N. 84°31' E., 6.29 chs. dist., to Angle Point 4, sec. 32;
thence N. 43°05' E., 3.43 chs. dist., to Angle Point 5, sec. 32;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS	
	thence S. 80°15' E., 1.96 chs. dist., to Angle Point 6, sec. 32; thence S. 3°25' E., 2.16 chs. dist., to Angle Point 7, sec. 32; thence N. 56°40' E., 3.86 chs. dist., to Angle Point 8, sec. 32; thence N. 21°20' W., 3.44 chs. dist., to Angle Point 9, sec. 32; thence N. 58°27' W., 13.65 chs. dist., to Angle Point 10, sec. 32; thence N. 18°01' W., 5.48 chs. dist., to Angle Point 11, sec. 32; thence N. 26°28' W., 10.45 chs. dist., to Angle Point 12, sec. 32; thence N. 54°19' W., 5.60 chs. dist., to Angle Point 13, sec. 32, identical with Angle Point 21, sec. 31, on the line bet. secs. 31 and 32; thence N. 53°20' W., 8.93 chs. dist., to Angle Point 22, sec. 31; thence N. 11°57' W., 2.91 chs. dist., to Angle Point 23, sec. 31; thence N. 5°30' E., 8.26 chs. dist., to Angle Point 24, sec. 31; thence N. 9°50' W., 6.77 chs. dist., to Angle Point 25, sec. 31; thence N. 22°00' W., 8.87 chs. dist., to Angle Point 26, sec. 31, identical with Angle Point 1, sec. 30, on the line bet. secs. 30 and 31; thence N. 27°48' E., 9.96 chs. dist., to Angle Point 2, sec. 30; thence N. 20°11' E., 7.37 chs. dist., to Angle Point 3, sec. 30; thence N. 35°19' W., 14.31 chs. dist., to Angle Point 4, sec. 30; thence N. 18°53' E., 8.84 chs. dist., to Angle Point 5, sec. 30; thence N. 1°50' W., 22.04 chs. dist., to Angle Point 6, sec. 30; thence N. 45°35' W., 9.99 chs. dist., to Angle Point 7, sec. 30; thence N. 16°14' W., 9.08 chs. dist., to Angle Point 8, sec. 30; thence N. 7°52' W., 2.81 chs. dist., to Angle Point 9, sec. 30, identical with Angle Point 1, sec. 19, on the line bet. secs. 19 and 30; thence N. 7°52' W., 10.79 chs. dist., to Angle Point 2, sec. 19; thence N. 20°41' W., 5.26 chs. dist., to Angle Point 3, sec. 19; thence N. 0°05' E., 6.61 chs. dist., to Angle Point 4, sec. 19; thence N. 53°33' W., 17.10 chs. dist., to Angle Point 5, sec. 19; thence N. 21°44' W., 8.08 chs. dist., to Angle Point 6, sec. 19, identical with the true point for the center 1/4 sec. cor. of sec. 19; thence N. 0°07' E., 39.95 chs. dist., on the N. and S. center line of sec. 19, to the 1/4 sec. cor. of secs. 18 and 19; thence S. 89°56' E., 6.74 chs. dist., bet. secs. 18 and 19, to Angle Point 1, sec. 18; thence N. 40°30' E., 5.05 chs. dist., to Angle Point 2, sec. 18; thence N. 18°11' W., 14.91 chs. dist., to Angle Point 3, sec. 18; thence N. 22°13' E., 12.10 chs. dist., to Angle Point 4, sec. 18; thence N. 42°24' W., 6.71 chs. dist., to Angle Point 5, sec. 18; thence N. 3°28' E., 3.66 chs. dist., to Angle Point 6, sec. 18; thence S. 89°43' W., 11.83 chs. dist., to Angle Point 7, sec. 18;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS	
	thence N. 45°06' W., 2.46 chs. dist., to Angle Point 8, sec. 18; thence N. 19°20' E., 3.50 chs. dist., to Angle Point 9, sec. 18; thence N. 84°51' E., 5.54 chs. dist., to Angle Point 10, sec. 18; thence S. 53°09' W., 6.29 chs. dist., to Angle Point 11, sec. 18; thence S. 87°06' E., 11.46 chs. dist., to Angle Point 12, sec. 18; thence N. 42°43' E., 5.19 chs. dist., to Angle Point 13, sec. 18; thence N. 82°33' E., 4.16 chs. dist., to Angle Point 14, sec. 18; thence N. 32°10' E., 4.37 chs. dist., to Angle Point 15, sec. 18; thence N. 52°11' E., 17.87 chs. dist., to Angle Point 16, sec. 18; thence N. 19°03' E., 7.57 chs. dist., to Angle Point 17, sec. 18; thence N. 64°43' E., 9.05 chs. dist., to Angle Point 18, sec. 18, identical with Angle Point 1, sec. 17, on the line bet. secs. 17 and 18; thence N. 63°40' E., 8.72 chs. dist., to Angle Point 2, sec. 17; thence N. 24°59' E., 3.66 chs. dist., to Angle Point 3, sec. 17; thence N. 72°13' E., 3.90 chs. dist., to Angle Point 4, sec. 17; thence N. 31°24' E., 3.00 chs. dist., to Angle Point 5, sec. 17, identical with Angle Point 1, sec. 8, on the line bet. secs. 8 and 17; thence N. 49°52' E., 6.90 chs. dist., to Angle Point 2, sec. 8; thence N. 88°11' E., 2.48 chs. dist., to Angle Point 3, sec. 8; thence N. 17°53' E., 2.74 chs. dist., to Angle Point 4, sec. 8; thence N. 44°28' E., 2.16 chs. dist., to Angle Point 5, sec. 8; thence S. 87°54' E., 3.67 chs. dist., to Angle Point 6, sec. 8; thence N. 31°18' E., 3.59 chs. dist., to Angle Point 7, sec. 8; thence N. 57°43' E., 1.94 chs. dist., to Angle Point 8, sec. 8; thence N. 78°51' E., 1.37 chs. dist., to Angle Point 9, sec. 8; thence N. 16°00' E., 4.51 chs. dist., to Angle Point 10, sec. 8; thence N. 33°53' W., 3.75 chs. dist., to Angle Point 11, sec. 8; thence N. 9°58' W., 2.50 chs. dist., to Angle Point 12, sec. 8; thence N. 39°08' E., 5.28 chs. dist., to Angle Point 13, sec. 8; thence N. 57°08' W., 4.18 chs. dist., to Angle Point 14, sec. 8; thence N. 30°27' W., 4.20 chs. dist., to Angle Point 15, sec. 8; thence N. 69°38' W., 4.64 chs. dist., to Angle Point 16, sec. 8; thence N. 36°18' W., 8.60 chs. dist., to Angle Point 17, sec. 8; thence N. 84°11' W., 18.25 chs. dist., to Angle Point 18, sec. 8; thence N. 22°52' W., 12.54 chs. dist., to Angle Point 19, sec. 8, identical with Angle Point 1, sec. 7, on the line bet. secs. 7 and 8; thence N. 74°04' W., 9.69 chs. dist., to Angle Point 2, sec. 7; thence N. 4°48' E., 7.95 chs. dist., to Angle Point 3, sec. 7; thence N. 37°09' W., 8.34 chs. dist., to Angle Point 4, sec. 7; thence N. 17°48' E., 10.70 chs. dist., to Angle Point 5, sec. 7, identical with Angle Point 6, sec. 7, on the line bet. secs. 6 and 7;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS

thence S. 41°09' W., 5.36 chs. dist., to Angle Point 7, sec. 7;
thence S. 72°02' W., 6.15 chs. dist., to Angle Point 8, sec. 7, identical with Angle Point 1, sec. 12, T. 6 S., R. 18 E., on the line bet. secs. 7 and 12, on the W. bdy. of the Tp.

In Township 6 South, Range 18 East

From Angle Point 1, sec. 12, identical with Angle Point 8, sec. 7, T. 6 S., R. 19 E., on the line bet. secs. 7 and 12, on the E. bdy. of the Tp.

thence S. 41°08' W., 3.04 chs. dist., to Angle Point 2, sec. 12;
thence S. 74°25' W., 8.38 chs. dist., to Angle Point 3, sec. 12;
thence S. 50°21' W., 13.00 chs. dist., to Angle Point 4, sec. 12;
thence S. 28°55' W., 7.96 chs. dist., to Angle Point 5, sec. 12;
thence S. 24°18' W., 6.50 chs. dist., to Angle Point 6, sec. 12;
thence S. 46°26' W., 8.75 chs. dist., to Angle Point 7, sec. 12;
thence S. 63°31' W., 15.42 chs. dist., to Angle Point 8, sec. 12;
thence S. 81°13' W., 9.61 chs. dist., to Angle Point 9, sec. 12;
thence S. 55°40' W., 4.95 chs. dist., to Angle Point 10, sec. 12;
thence S. 61°20' W., 8.92 chs. dist., to Angle Point 11, sec. 12;
thence S. 17°16' W., 6.20 chs. dist., to Angle Point 12, sec. 12;
thence S. 54°06' E., 9.09 chs. dist., to Angle Point 13, sec. 12;
thence S. 38°08' W., 13.41 chs. dist., to Angle Point 14, sec. 12;
thence S. 61°28' W., 6.69 chs. dist., to Angle Point 15, sec. 12, identical with Angle Point 1, sec. 13, on the line bet. secs. 12 and 13;
thence S. 33°59' W., 5.52 chs. dist., to Angle Point 2, sec. 13, on the line bet. secs. 13 and 14;
thence S. 0°06' W., 15.35 chs. dist., bet secs. 13 and 14, to the N. 1/16 sec. cor. of secs. 13 and 14;
thence S. 89°58' W., 39.93 chs. dist., on the E. and W. center line of the NE 1/4 of sec. 14, to the center N. 1/16 sec. cor. of sec. 14;
thence N. 0°07' W., 19.945 chs. dist., on the N. and S. center line of sec. 14, to the 1/4 sec. cor. of secs. 11 and 14, identical with Angle Point 1, sec. 11;
thence N. 89°59' E., 40.01 chs. dist., bet. secs. 11 and 14, to the cor. of secs. 11, 12, 13 and 14, identical with Angle Point 2, sec. 11, identical with Angle Point 16, sec. 12;
thence N. 36°40' E., 9.20 chs. dist., to Angle Point 17, sec. 12;
thence N. 20°24' E., 5.82 chs. dist., to Angle Point 18, sec. 12;

**Survey of the Legal Descriptive Boundary
of the Aravaipa Canyon Wilderness Area,
Tps. 7 S., Rs. 18 and 19 E. and
Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	thence N. 41°09' W., 2.80 chs. dist., to Angle Point 19, sec. 12; thence N. 22°46' E., 9.41 chs. dist., to Angle Point 20, sec. 12; thence S. 73°50' W., 5.09 chs. dist., to Angle Point 21, sec. 12; thence S. 2°06' E., 7.67 chs. dist., to Angle Point 22, sec. 12; thence S. 54°44' W., 5.72 chs. dist., to Angle Point 23, sec. 12, identical with Angle Point 3, sec. 11, on the line bet. secs. 11 and 12; thence N. 63°05' W., 16.49 chs. dist., to Angle Point 4, sec. 11; thence N. 65°25' W., 6.32 chs. dist., to Angle Point 5, sec. 11; thence N. 45°57' W., 7.18 chs. dist., to Angle Point 6, sec. 11; thence N. 64°43' W., 9.56 chs. dist., to Angle Point 7, sec. 11; thence N. 15°36' W., 3.90 chs. dist., to Angle Point 8, sec. 11; thence N. 37°58' E., 10.07 chs. dist., to Angle Point 9, sec. 11; thence N. 4°51' E., 4.47 chs. dist., to Angle Point 10, sec. 11; thence N. 22°16' W., 8.64 chs. dist., to Angle Point 11, sec. 11; thence N. 28°49' W., 3.70 chs. dist., to Angle Point 12, sec. 11; thence N. 52°50' W., 1.60 chs. dist., to Angle Point 13, sec. 11; thence S. 62°48' W., 5.33 chs. dist., to Angle Point 14, sec. 11; thence S. 36°28' W., 3.92 chs. dist., to Angle Point 15, sec. 11; thence S. 10°23' W., 3.57 chs. dist., to Angle Point 16, sec. 11; thence S. 22°47' W., 4.42 chs. dist., to Angle Point 17, sec. 11; thence N. 87°08' W., 3.34 chs. dist., to Angle Point 18, sec. 11; thence S. 28°24' W., 8.60 chs. dist., to Angle Point 19, sec. 11; thence S. 87°27' W., 3.06 chs. dist., to Angle Point 20, sec. 11; thence S. 43°57' W., 8.69 chs. dist., to Angle Point 21, sec. 11; thence S. 67°07' W., 5.83 chs. dist., to Angle Point 22, sec. 11; thence S. 70°52' W., 12.09 chs. dist., to Angle Point 23, sec. 11; thence S. 5°02' E., 0.88 chs. dist., to Angle Point 24, sec. 11; thence S. 77°58' W., 1.22 chs. dist., to Angle Point 25, sec. 11; thence N. 3°04' W., 1.80 chs. dist., to Angle Point 26, sec. 11; thence N. 75°05' E., 1.09 chs. dist., to Angle Point 27, sec. 11; thence N. 63°23' E., 7.31 chs. dist., to Angle Point 28, sec. 11;

Survey of the Legal Descriptive Boundary
of the Aravaipa Canyon Wilderness Area,
Tps. 7 S., Rs. 18 and 19 E. and
Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS

thence N. 67°30' E., 3.50 chs. dist., to Angle Point 29, sec. 11;
thence N. 77°24' E., 6.27 chs. dist., to Angle Point 30, sec. 11;
thence N. 39°19' E., 5.86 chs. dist., to Angle Point 31, sec. 11;
thence N. 54°14' E., 3.97 chs. dist., to Angle Point 32, sec. 11;
thence S. 87°39' E., 2.35 chs. dist., to Angle Point 33, sec. 11;
thence N. 32°45' E., 9.24 chs. dist., to Angle Point 34, sec. 11;
thence S. 84°52' E., 3.03 chs. dist., to Angle Point 35, sec. 11;
thence N. 22°03' E., 2.94 chs. dist., to Angle Point 36, sec. 11;
thence N. 8°03' E., 2.22 chs. dist., to Angle Point 37, sec. 11;
thence N. 53°49' W., 16.04 chs. dist., to Angle Point 38, sec. 11;
thence N. 61°10' W., 2.90 chs. dist., to Angle Point 39, sec. 11;
thence S. 64°00' W., 7.97 chs. dist., to Angle Point 40, sec. 11;
thence N. 61°24' W., 8.47 chs. dist., to Angle Point 41, sec. 11;
thence N. 14°32' W., 12.03 chs. dist., to Angle Point 42, sec. 11;
thence S. 88°11' W., 3.56 chs. dist., to Angle Point 43, sec. 11, identical with Angle Point 1, sec. 10, on the line bet. secs. 10 and 11;
thence S. 88°11' W., 7.42 chs. dist., to Angle Point 2, sec. 10;
thence S. 49°10' E., 6.06 chs. dist., to Angle Point 3, sec. 10;
thence N. 69°20' W., 3.20 chs. dist., to Angle Point 4, sec. 10;
thence S. 83°06' W., 14.42 chs. dist., to Angle Point 5, sec. 10;
thence N. 86°01' W., 6.99 chs. dist., to Angle Point 6, sec. 10;
thence S. 13°25' W., 3.63 chs. dist., to Angle Point 7, sec. 10;
thence S. 42°53' W., 3.34 chs. dist., to Angle Point 8, sec. 10;
thence S. 70°51' W., 3.12 chs. dist., to Angle Point 9, sec. 10;
thence S. 20°46' W., 3.40 chs. dist., to Angle Point 10, sec. 10;
thence S. 34°09' E., 5.05 chs. dist., to Angle Point 11, sec. 10;
thence S. 28°27' W., 9.38 chs. dist., to Angle Point 12, sec. 10;
thence S. 70°38' W., 4.28 chs. dist., to Angle Point 13, sec. 10;
thence S. 85°29' W., 3.22 chs. dist., to Angle Point 14, sec. 10;
thence S. 52°18' W., 5.48 chs. dist., to Angle Point 15, sec. 10;
thence S. 81°38' W., 4.84 chs. dist., to Angle Point 16, sec. 10;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS	
	thence S. 85°17' W., 1.58 chs. dist., to Angle Point 17, sec. 10; thence S. 67°27' W., 9.69 chs. dist., to Angle Point 18, sec. 10; thence S. 74°11' W., 7.97 chs. dist., to Angle Point 19, sec. 10; thence S. 36°35' W., 5.73 chs. dist., to Angle Point 20, sec. 10; thence S. 78°01' W., 6.13 chs. dist., to Angle Point 21, sec. 10, identical with Angle Point 1, sec. 9, on the line bet. secs. 9 and 10; thence S. 49°46' W., 6.13 chs. dist., to Angle Point 2, sec. 9; thence S. 42°26' W., 6.05 chs. dist., to Angle Point 3, sec. 9; thence S. 35°20' W., 3.52 chs. dist., to Angle Point 4, sec. 9; thence S. 74°01' W., 2.03 chs. dist., to Angle Point 5, sec. 9; thence N. 36°14' E., 10.58 chs. dist., to Angle Point 6, sec. 9; thence N. 33°21' E., 5.60 chs. dist., to Angle Point 7, sec. 9; thence N. 16°38' W., 5.36 chs. dist., to Angle Point 8, sec. 9; thence N. 54°07' E., 4.84 chs. dist., to Angle Point 9, sec. 9; thence N. 6°20' W., 7.78 chs. dist., to Angle Point 10, sec. 9; thence N. 60°24' W., 10.17 chs. dist., to Angle Point 11, sec. 9; thence N. 31°21' E., 4.96 chs. dist., to Angle Point 12, sec. 9; thence S. 81°27' E., 8.27 chs. dist., to Angle Point 13, sec. 9, identical with Angle Point 22, sec. 10, on the line bet. secs. 9 and 10; thence N. 36°34' E., 4.36 chs. dist., to Angle Point 23, sec. 10; thence N. 1°45' E., 8.80 chs. dist., to Angle Point 24, sec. 10; thence N. 50°51' E., 7.65 chs. dist., to Angle Point 25, sec. 10; thence S. 82°06' E., 4.64 chs. dist., to Angle Point 26, sec. 10; thence N. 1°18' E., 7.58 chs. dist., to Angle Point 27, sec. 10; thence N. 9°15' E., 0.34 chs. dist., to Angle Point 28, sec. 10, identical with Angle Point 1, sec. 3, on the line bet. secs. 3 and 10; thence N. 9°15' E., 12.77 chs. dist., to Angle Point 2, sec. 3; thence N. 8°20' E., 5.87 chs. dist., to Angle Point 3, sec. 3; thence N. 24°20' E., 6.33 chs. dist., to Angle Point 4, sec. 3; thence N. 71°23' E., 8.16 chs. dist., to Angle Point 5, sec. 3; thence N. 36°26' E., 5.13 chs. dist., to Angle Point 6, sec. 3; thence N. 45°59' E., 8.37 chs. dist., to Angle Point 7, sec. 3; thence N. 1°34' W., 3.97 chs. dist., to Angle Point 8, sec. 3; thence N. 85°13' E., 4.15 chs. dist., to Angle Point 9, sec. 3, on the N. and S. center line of sec. 3; thence N. 0°02' W., 32.72 chs. dist., on the N. and S. center line of sec. 3, to the 1/4 sec. cor. of sec. 3 only, on the First Standard Parallel South; thence S. 89°55' W., 4.44 chs. dist., on the First Standard Parallel South, to the standard 1/4 sec. cor. of sec. 34; thence N. 89°59' W., 35.54 chs. dist., on the First Standard Parallel South to the closing cor. of secs. 3 and 4;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS	
	thence N. 89°59' W., 4.41 chs. dist., on the First Standard Parallel South to the standard cor. of secs. 33 and 34;
	thence S. 89°43' W., 23.56 chs. dist., on the First Standard Parallel South to Angle Point 1, sec. 4;
	thence S. 28°00' W., 5.79 chs. dist., to Angle Point 2, sec. 4;
	thence S. 44°14' W., 12.45 chs. dist., to Angle Point 3, sec. 4;
	thence S. 71°54' W., 24 55chs. dist., to Angle Point 4, sec. 4;
	thence S. 87°44' W., 6.85 chs. dist., to Angle Point 5, sec. 4;
	thence S. 26°00' E., 4.00 chs. dist., to Angle Point 6, sec. 4;
	thence S. 27°41' W., 1.95 chs. dist., to Angle Point 7, sec. 4;
	thence S. 56°56' E., 2.18 chs. dist., to Angle Point 8, sec. 4;
	thence S. 13°21' E., 2.62 chs. dist., to Angle Point 9, sec. 4;
	thence S. 22°48' W., 5.39 chs. dist., to Angle Point 10, sec. 4;
	thence S. 0°13' W., 7.10 chs. dist., to Angle Point 11, sec. 4;
	thence S. 17°39' E., 2.45 chs. dist., to Angle Point 12, sec. 4;
	thence S. 38°40' W., 5.07 chs. dist., to Angle Point 13, sec. 4;
	thence S. 86°17' W., 4.91 chs. dist., to Angle Point 14, sec. 4;
	thence S. 70°49' W., 4.67 chs. dist., to Angle Point 15, sec. 4, identical with Angle Point 1, sec. 5, on the line bet. secs. 4 and 5;
	thence S. 38°16' W., 8.78 chs. dist., to Angle Point 2, sec. 5;
	thence S. 15°48' W., 2.91 chs. dist., to Angle Point 3, sec. 5;
	thence S. 12°01' E., 3.76 chs. dist., to Angle Point 4, sec. 5;
	thence S. 34°24' W., 7.00 chs. dist., to Angle Point 5, sec. 5;
	thence S. 44°45' W., 4.69 chs. dist., to Angle Point 6, sec. 5, identical with Angle Point 1, sec. 8, on the line bet. secs. 5 and 8;
	thence S. 20°08' W., 8.14 chs. dist., to Angle Point 2, sec. 8;
	thence S. 26°05' W., 8.97 chs. dist., to Angle Point 3, sec. 8;
	thence S. 12°50' W., 8.60 chs. dist., to Angle Point 4, sec. 8;
	thence S. 67°28' E., 8.18 chs. dist., to Angle Point 5, sec. 8;
	thence S. 41°52' E., 5.22 chs. dist., to Angle Point 6, sec. 8;
	thence S. 27°29' E., 4.37 chs. dist., to Angle Point 7, sec. 8;
	thence S. 23°44' W., 2.60 chs. dist., to Angle Point 8, sec. 8;
	thence S. 47°52' W., 5.06 chs. dist., to Angle Point 9, sec. 8;
	thence S. 49°47' W., 2.79 chs. dist., to Angle Point 10, sec. 8;
	thence N. 83°45' W., 4.89 chs. dist., to Angle Point 11, sec. 8;
	thence N. 78°14' W., 10.01 chs. dist., to Angle Point 12, sec. 8;
	thence S. 44°02' W., 4.81 chs. dist., to Angle Point 13, sec. 8;
	thence S. 29°22' W., 2.26 chs. dist., to Angle Point 14, sec. 8;
	thence S. 60°48' W., 3.89 chs. dist., to Angle Point 15, sec. 8;
	thence N. 87°26' W., 3.71 chs. dist., to Angle Point 16, sec. 8;
	thence N. 53°39' W., 8.66 chs. dist., to Angle Point 17, sec. 8;
	thence N. 31°43' W., 8.67 chs. dist., to Angle Point 18, sec. 8;
	thence N. 81°45' W., 4.77 chs. dist., to Angle Point 19, sec. 8;
	thence S. 86°47' W., 15.38 chs. dist., to Angle Point 20, sec. 8;
	thence S. 34°27' W., 4.35 chs. dist., to Angle Point 21, sec. 8;
	thence N. 33°06' W., 5.52 chs. dist., to Angle Point 22, sec. 8;
	thence S. 70°07' W., 1.51 chs. dist., to Angle Point 23, sec. 8, identical with Angle Point 1, sec. 7, on the line bet. secs. 7 and 8;
	thence S. 88°49' W., 2.93 chs. dist., to Angle Point 2, sec. 7;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS

thence S. 29°19' W., 8.65 chs. dist., to Angle Point 2A, sec. 7;
thence S. 36°08' W., 3.72 chs. dist., to Angle Point 2B, sec. 7;
thence N. 51°21' W., 3.12 chs. dist., to Angle Point 2C, sec. 7;
thence N. 17°32' E., 2.62 chs. dist., to Angle Point 2D, sec. 7;
thence N. 19°13' E., 7.52 chs. dist., to Angle Point 2E, sec. 7;
thence N. 69°16' W., 1.53 chs. dist., to Angle Point 2F, sec. 7;
thence N. 0°14' E., 2.88 chs. dist., to Angle Point 3, sec. 7;
thence N. 26°25' W., 20.97 chs. dist., to Angle Point 4, sec. 7;
thence S. 75°53' W., 2.98 chs. dist., to Angle Point 5, sec. 7;
thence S. 84°39' W., 10.53 chs. dist., to Angle Point 6, sec. 7;
thence S. 81°30' W., 9.30 chs. dist., to Angle Point 7, sec. 7;
thence N. 43°04' W., 5.09 chs. dist., to Angle Point 8, sec. 7;
thence S. 73°15' W., 5.08 chs. dist., to Angle Point 9, sec. 7;
thence N. 81°26' W., 5.74 chs. dist., to Angle Point 10, sec. 7;
thence N. 60°07' W., 5.12 chs. dist., to Angle Point 11, sec. 7;
thence N. 66°56' W., 4.71 chs. dist., to Angle Point 12, sec. 7;
thence S. 27°36' W., 9.41 chs. dist., to Angle Point 13, sec. 7;
thence S. 71°52' W., 8.90 chs. dist., to Angle Point 14, sec. 7;
thence S. 42°14' W., 3.72 chs. dist., to Angle Point 15, sec. 7;
thence S. 80°54' W., 4.91 chs. dist., to Angle Point 16, sec. 7;
thence S. 17°09' E., 1.40 chs. dist., to Angle Point 17, sec. 7;
thence S. 25°43' W., 3.16 chs. dist., to Angle Point 18, sec. 7, on the line bet. secs. 7 and 12, on the W. bdy. of the Tp.

In Township 6 South, Range 17 East

From Angle Point 18, sec. 7, T. 6 S., R. 18 E., on the line bet. secs. 7 and 12, on the E. bdy. of the Tp.

thence S. 0°01' E., 14.28 chs. dist., on the line bet. secs. 7 and 12, on the E. bdy. of the Tp., to the 1/4 sec. cor. of sec. 7, T. 6 S., R. 18 E. only;
thence S. 0°02' E., 6.27 chs. dist., on the line bet. secs. 7 and 12, on the E. bdy. of the Tp., to the true point for the 1/4 sec. cor. of sec. 12, T. 6 S., R. 17 E. only;
thence N. 89°26' W., 20.11 chs. dist., on the E. and W. center line of sec. 12, to the E. 1/16 sec. cor. of sec. 12;
thence S. 0°08' W., 39.35 chs. dist., on the N. and S. center line of the SE 1/4 of sec. 12, to the E. 1/16 sec. cor. of secs. 12 and 13;
thence S. 89°58' W., 19.97 chs. dist., on the line bet. secs. 12 and 13, to the 1/4 sec. cor. of secs. 12 and 13;
thence S. 0°02' W., 79.40 chs. dist., on the N. and S. center line of sec. 13, to the 1/4 sec. cor of secs. 13 and 24;
thence S. 0°52' W., 26.60 chs. dist., on the N. and S. center line of sec. 24, to Angle Point 1, sec. 24;
thence S. 69°29' E., 5.73 chs. dist., to Angle Point 2, sec. 24;
thence S. 23°08' E., 2.84 chs. dist., to Angle Point 3, sec. 24;
thence S. 83°00' E., 3.94 chs. dist., to Angle Point 4, sec. 24;
thence S. 1°17' W., 2.94 chs. dist., to Angle Point 5, sec. 24;
thence S. 62°12' W., 5.26 chs. dist., to Angle Point 6, sec. 24;
thence S. 47°55' W., 5.57 chs. dist., to Angle Point 7, sec. 24;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS

thence S. 32°59' W., 3.31 chs. dist., to Angle Point 8, sec. 24;
thence S. 0°52' W., 12.94 chs. dist., on the N. and S. center line of sec. 24, to Angle Point 9, sec. 24;
thence N. 71°14' E., 1.96 chs. dist., to Angle Point 10, sec. 24;
thence S. 56°56' E., 5.45 chs. dist., to Angle Point 11, sec. 24;
thence S. 88°36' E., 4.90 chs. dist., to Angle Point 12, sec. 24;
thence S. 50°18' E., 5.89 chs. dist., to Angle Point 13, sec. 24;
thence S. 45°52' E., 6.24 chs. dist., to Angle Point 14, sec. 24;
thence S. 77°17' E., 4.45 chs. dist., to Angle Point 15, sec. 24;
thence N. 60°03' E., 2.87 chs. dist., to Angle Point 16, sec. 24;
thence S. 52°27' E., 7.87 chs. dist., to Angle Point 17, sec. 24;
thence S. 41°48' E., 5.40 chs. dist., to Angle Point 18, sec. 24;
thence N. 80°08' E., 4.17 chs. dist., to Angle Point 19, sec. 24, identical with Angle Point 1, sec. 19, T. 6 S., R. 18 E., on the line bet. secs. 19 and 24, on the E. bdy. of the Tp.

In Township 6 South, Range 18 East

From Angle Point 1, sec. 19, identical with Angle Point 19, sec. 24, T. 6 S., R. 17 E., on the line bet. secs. 19 and 24, on the W. bdy. of the Tp.

thence N. 48°53' E., 3.09 chs. dist., Angle Point 2, sec. 19;
thence N. 75°23' E., 9.28 chs. dist., Angle Point 3, sec. 19;
thence S. 46°01' E., 3.16 chs. dist., Angle Point 4, sec. 19;
thence S. 45°39' W., 3.79 chs. dist., Angle Point 5, sec. 19, identical with Angle Point 1, sec. 30, on the line bet. secs. 19 and 30;
thence S. 45°39' W., 3.00 chs. dist., Angle Point 2, sec. 30;
thence S. 61°10' W., 6.86 chs. dist., Angle Point 3, sec. 30;
thence S. 13°20' W., 3.03 chs. dist., Angle Point 4, sec. 30;
thence S. 63°42' E., 5.20 chs. dist., Angle Point 5, sec. 30;
thence S. 52°26' E., 2.38 chs. dist., Angle Point 6, sec. 30;
thence S. 85°04' E., 7.76 chs. dist., Angle Point 7, sec. 30;
thence S. 72°59' E., 14.42 chs. dist., Angle Point 8, sec. 30;
thence N. 56°13' E., 3.03 chs. dist., Angle Point 9, sec. 30;
thence S. 71°37' E., 2.00 chs. dist., Angle Point 10, sec. 30;
thence S. 65°58' E., 6.48 chs. dist., Angle Point 11, sec. 30;
thence S. 72°12' E., 8.78 chs. dist., Angle Point 12, sec. 30;
thence S. 60°06' E., 10.08 chs. dist., Angle Point 13, sec. 30;
thence S. 50°14' E., 5.72 chs. dist., Angle Point 14, sec. 30;
thence S. 51°59' E., 2.84 chs. dist., Angle Point 15, sec. 30;

Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area, Tps. 7 S., Rs. 18 and 19 E. and Tps. 6 S., Rs. 17 thru 19 E., Gila and Salt River Meridian, Arizona

CHAINS	
	thence S. 58°05' E., 11.27 chs. dist., Angle Point 16, sec. 30; thence S. 38°16' E., 3.88 chs. dist., Angle Point 17, sec. 30; thence S. 58°24' E., 3.53 chs. dist., Angle Point 18, sec. 30; thence S. 42°22' E., 10.26 chs. dist., Angle Point 19, sec. 30, identical with Angle Point 1, sec. 29, on the line bet. secs. 29 and 30; thence S. 46°53' E., 4.49 chs. dist., Angle Point 2, sec. 29; thence S. 37°12' E., 8.93 chs. dist., Angle Point 3, sec. 29; thence S. 70°52' E., 3.04 chs. dist., Angle Point 4, sec. 29; thence S. 60°00' E., 13.57 chs. dist., Angle Point 5, sec. 29; thence S. 30°24' E., 3.99 chs. dist., Angle Point 6, sec. 29; thence S. 61°08' E., 17.46 chs. dist., Angle Point 7, sec. 29, identical with Angle Point 1, sec. 32, on the line bet. secs. 29 and 32; thence S. 66°35' E., 12.98 chs. dist., Angle Point 2, sec. 32; thence S. 66°07' E., 15.74 chs. dist., Angle Point 3, sec. 32; thence S. 50°45' E., 11.51 chs. dist., Angle Point 4, sec. 32; thence S. 31°26' E., 7.24 chs. dist., Angle Point 5, sec. 32; thence S. 0°18' E., 5.29 chs. dist., Angle Point 6, sec. 32; thence S. 14°13' W., 4.90 chs. dist., Angle Point 7, sec. 32; thence S. 41°42' E., 2.52 chs. dist., Angle Point 8, sec. 32, identical with Angle Point 1, sec. 33, on the line bet. secs. 32 and 33. thence S. 64°32' E., 1.96 chs. dist., Angle Point 2, sec. 33; thence S. 34°40' E., 8.44 chs. dist., Angle Point 3, sec. 33; thence S. 70°31' E., 12.74 chs. dist., Angle Point 4, sec. 33; thence S. 47°54' E., 4.54 chs. dist., Angle Point 5, sec. 33; thence S. 30°44' E., 4.10 chs. dist., Angle Point 6, sec. 33; thence S. 48°25' E., 10.13 chs. dist., Angle Point 7, sec. 33; thence S. 49°36' E., 4.72 chs. dist., Angle Point 8, sec. 33; thence S. 69°03' E., 11.69 chs. dist., Angle Point 9, sec. 33; thence S. 59°41' E., 8.67 chs. dist., Angle Point 10, sec. 33; thence S. 50°25' E., 7.30 chs. dist., Angle Point 11, sec. 33; thence S. 34°05' E., 1.74 chs. dist., Angle Point 12, sec. 33, identical with Angle Point 1, sec. 4, T. 7 S., R. 18 E., on the line bet. secs. 33 and 4, on the S. bdy. of the Tp., the point of beginning.
	The following parcels within the Legal Descriptive Boundary are excluded from the Aravaipa Canyon Wilderness Area: SW 1/4 SE 1/4, SE 1/4 SW 1/4, sec. 17, T. 6 S., R. 18 E.; W 1/2 NE 1/4, SE 1/4, E 1/2 NW 1/4, sec. 20, T. 6 S., R. 18 E.; NE 1/4, N 1/2 SE 1/4, sec. 29, T. 6 S., R. 18 E.; Portion of the NW 1/4 SW 1/4, sec. 33, T. 6 S., R. 18 E.; Portion of the NW 1/4, sec. 14, T. 7 S., R. 18 E.;
	The above-described Survey of the Legal Descriptive Boundary of the Aravaipa Canyon Wilderness Area contains 19,617 acres, more or less.

CERTIFICATE OF SURVEY

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

The preceding field note record of the survey of the descriptive boundary of the Aravaipa Canyon Wilderness Area in Townships 7 South, Ranges 18 and 19 East, and Townships 6 South, Ranges 17 thru 19 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 the Special Instructions dated January 17, 2001, and Supplemental Special Instructions dated February 14, 2011, for Group No. 860, 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 Aravaipa Canyon Wilderness Area in Townships 7 South, Ranges 18 and 19 East, and Townships 6 South, Ranges 17 thru 19 East, Gila and Salt River Meridian, Arizona, executed by Gordon R. Bubel and Geoffrey A. Graham, Cadastral Surveyors, having been critically examined and found correct, are hereby approved.

3/30/2011
(Date)

Stephen K. Hansen
(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 South, Ranges ~~18~~ and 19 East, and Townships 6 South, Ranges 17 thru 19 East, ~~Gila~~ and Salt River Meridian, Arizona, is a true copy of the original field notes.

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~

Field Notes in Book 5746

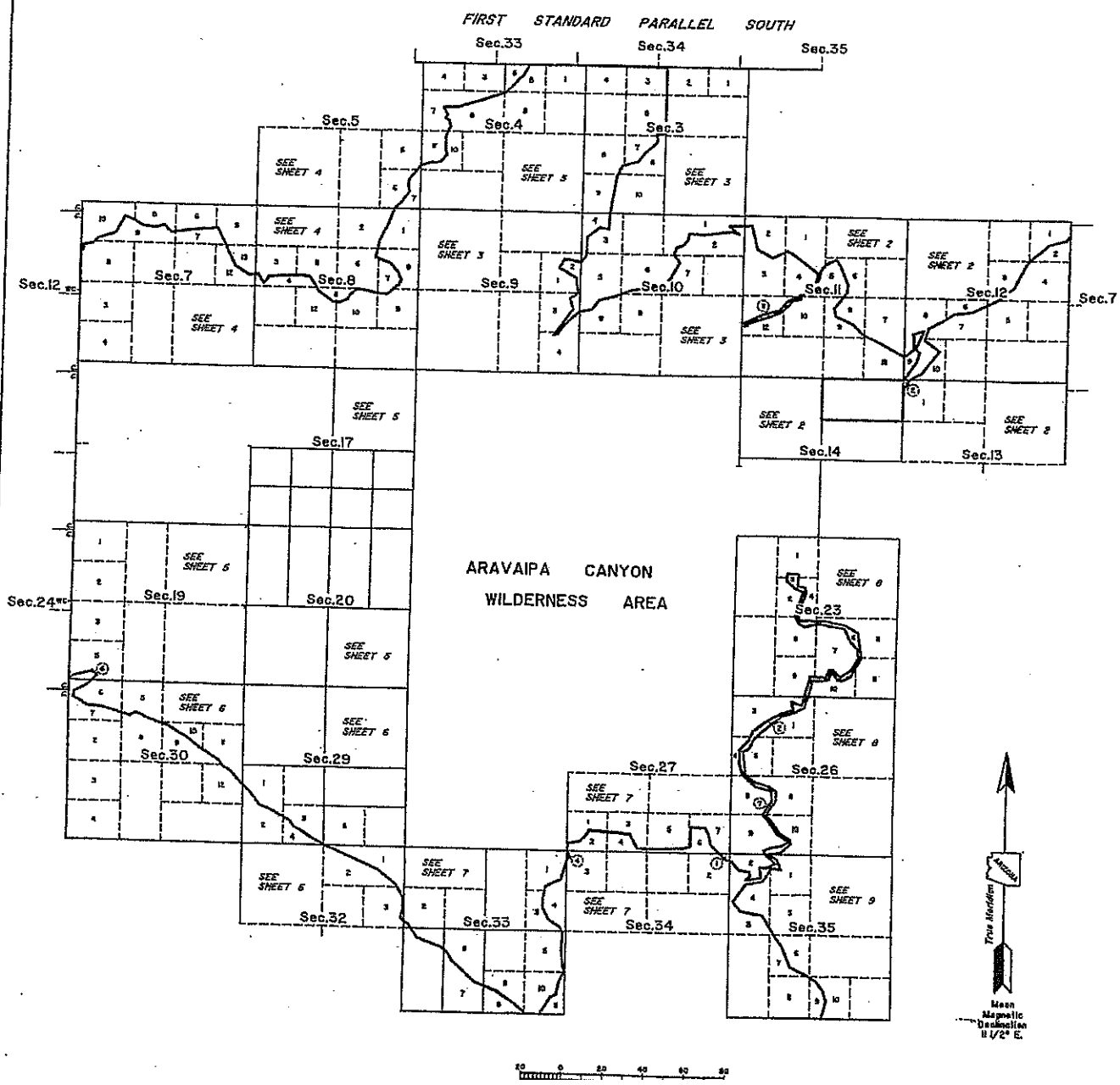
Officially Filed
DATE July 21, 2005

ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1707-B

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



The history of surveys is contained in the field notes.

This plat represents the dependent resurvey of a portion of the First Standard Parallel South, (north boundary) and a portion of the subdivisional lines, designed to restore the corners in their true original locations according to the best available evidence; the subdivision of sections 3, 14, 17, 20, 29 and 33, and the metes-and-bounds survey of the Aravaipa Canyon Wilderness Area Boundary in Township 6 South, Range 18 East, Gila and Salt River Meridian, Arizona.

Except as indicated hereon, the latitude and areas are as shown on the plat approved December 7, 1929, accepted February 3, 1930.

This survey was executed by Gordon R. Bubal, Cadastral Surveyor, beginning March 27, 2001, and completed April 21, 2003, pursuant to Special Instructions dated January 17, 2001, for Group No. 860, Arizona.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona July 11, 2005

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hansen

Acting Chief Cadastral Surveyor of Arizona

Field Notes In Book 5746

Officially Filed
DATE July 21, 2005

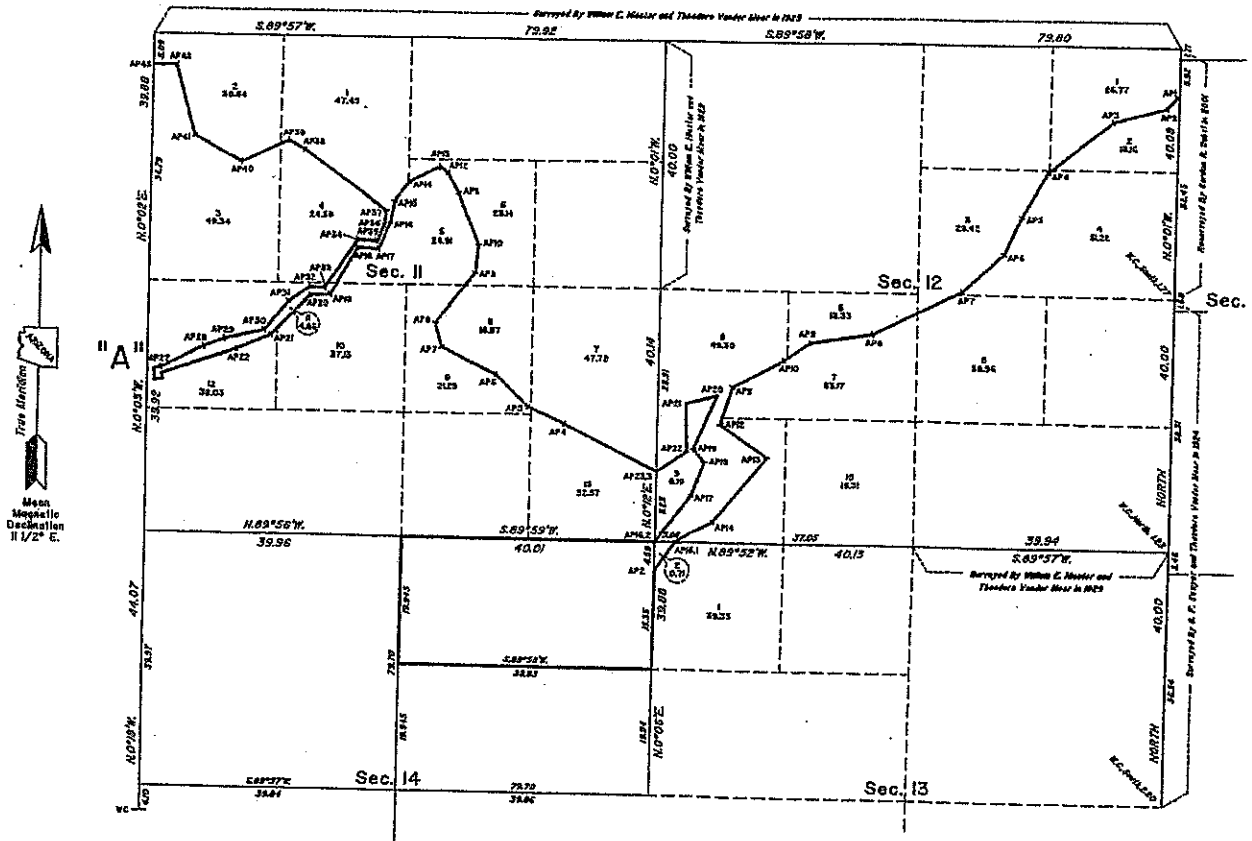
ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1707-C

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY

Refer to sheet 1 for survey information.


Sec. 11
Sec. 12
Sec. 7
Sec. 14
Sec. 13
S.89°57'W. 79.92
S.89°58'W. 79.80
N.89°56'W. 39.96
S.89°59'W. 40.01
N.89°52'W. 40.13
S.89°57'W. 39.94
N.0°02'E.
N.0°03'W.
N.0°07'W.
N.0°09'W.
40.00
40.14
40.07
39.88
39.79
39.98
39.96
39.97
39.94
39.98
39.97
39.84
39.86
39.79
39.83
39.84
39.86
39.84
39.86
39.84
39.86

Field Notes in Book 5746

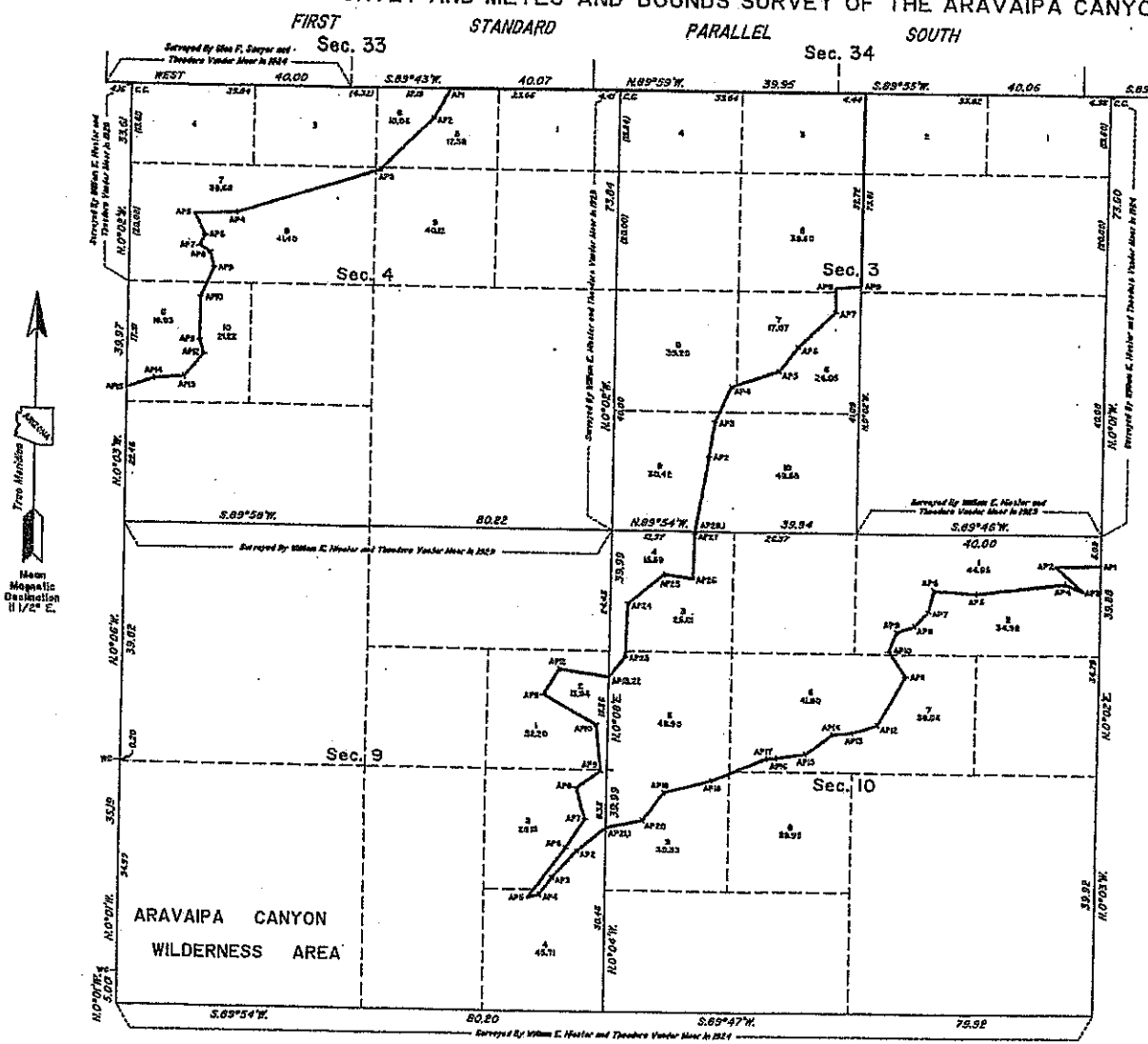
Officially Filed
DATE July 21, 2005

ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1707-D

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 10		
AP1-2	S.88°11'W.	7.42
AP2-3	S.49°10'E.	6.06
AP3-4	N.69°20'W.	3.20
AP4-5	S.83°06'W.	14.42
AP5-6	N.05°01'W.	6.99
AP6-7	S.15°25'W.	3.63
AP7-8	S.42°55'W.	5.34
AP8-9	S.70°51'W.	5.12
AP9-10	S.20°46'W.	3.40
AP10-11	S.34°09'E.	5.05
AP11-12	S.26°27'W.	9.58
AP12-13	S.70°38'W.	4.23
AP13-14	S.85°29'W.	3.28
AP14-15	S.52°18'W.	5.48
AP15-16	S.81°38'W.	4.84
AP16-17	S.85°17'W.	1.88
AP17-18	S.57°27'W.	8.69
AP18-19	S.74°11'W.	7.97
AP19-20	S.36°35'W.	6.73
AP20-21	S.78°01'W.	6.15
METES-AND-BOUNDS IN SECTION 9		
AP1-2	S.49°46'W.	6.15
AP2-3	S.42°26'W.	8.05
AP3-4	S.85°20'W.	3.62
AP4-5	S.74°01'W.	2.03
AP5-6	N.36°14'E.	10.58
AP6-7	N.35°21'E.	5.60
AP7-8	N.16°38'W.	6.36
AP8-9	N.84°07'E.	4.84
AP9-10	N. 6°20'W.	7.78
AP10-11	N.60°24'W.	10.17
AP11-12	N.31°21'E.	4.96
AP12-13	S.81°27'E.	8.27
METES-AND-BOUNDS IN SECTION 10		
AP22-23	N.36°34'E.	4.36
AP23-24	N. 1°46'E.	8.80
AP24-25	N.50°51'E.	7.65
AP25-26	S.82°06'E.	4.84
AP26-27	N. 1°16'E.	7.58
AP27-28	N. 9°15'E.	0.34
METES-AND-BOUNDS IN SECTION 3		
AP1-2	N. 9°15'E.	12.77
AP2-3	N. 8°20'E.	5.87
AP3-4	N.24°20'E.	6.33
AP4-5	N.71°23'E.	8.16
AP5-6	N.56°26'E.	5.13
AP6-7	N.45°59'E.	8.37
AP7-8	N. 1°54'W.	3.97
AP8-9	N.85°13'E.	4.15
METES-AND-BOUNDS IN SECTION 4		
AP1-2	S.28°00'W.	5.79
AP2-3	S.44°14'W.	12.45
AP3-4	S.71°54'W.	24.66
AP4-5	S.87°44'W.	6.85
AP5-6	S.25°00'E.	4.00
AP6-7	S.27°41'W.	1.95
AP7-8	S.65°56'E.	2.18
AP8-9	S.13°21'E.	2.62
AP9-10	S.22°49'W.	8.39
AP10-11	S. 0°13'W.	7.10
AP11-12	S.17°39'E.	2.45
AP12-13	S.38°40'W.	6.07
AP13-14	S.86°17'W.	4.81
AP14-15	S.70°49'W.	4.67

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — July 11, 2005

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hansen

Refer to sheet 1 for survey information.

Field Notes in Book 5746

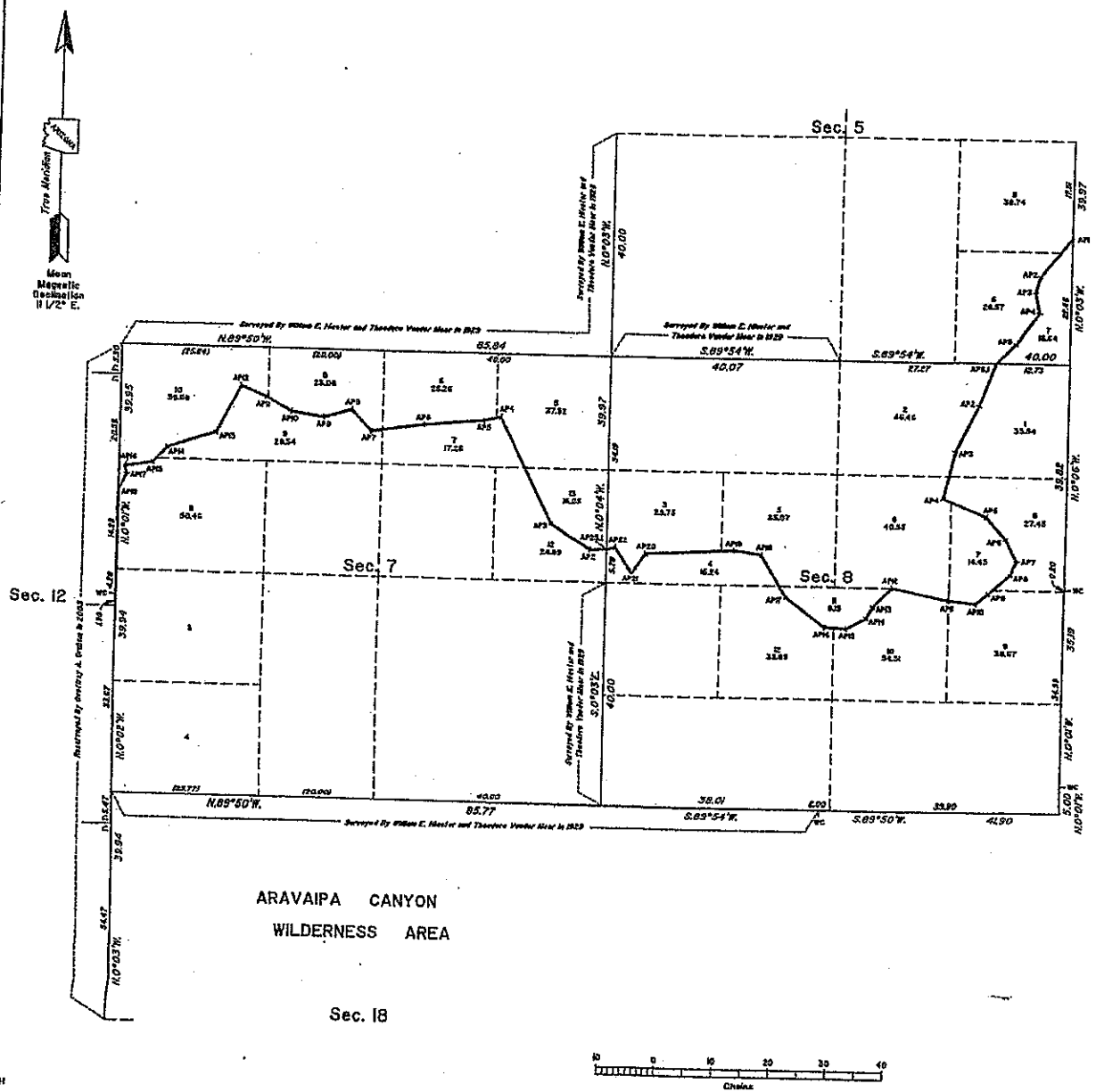
Officially Filed
DATE July 21, 2005

ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1707-E

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



Refer to sheet 1 for survey information.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 5		
AP1-2	S.38°16'W.	8.78
AP2-3	S.15°48'W.	2.91
AP3-4	S.12°01'E.	3.76
AP4-5	S.34°24'W.	7.00
AP5-6	S.44°45'W.	4.69
METES-AND-BOUNDS IN SECTION 6		
AP1-2	S.20°08'W.	8.14
AP2-3	S.26°08'W.	8.97
AP3-4	S.12°50'W.	8.60
AP4-5	S.87°28'E.	8.18
AP5-6	S.41°52'E.	5.22
AP6-7	S.27°29'E.	4.37
AP7-8	S.23°44'W.	2.60
AP8-9	S.47°52'W.	5.06
AP9-10	S.49°47'W.	2.79
AP10-11	N.83°45'W.	4.58
AP11-12	N.78°14'W.	10.01
AP12-13	S.44°02'W.	4.81
AP13-14	S.28°22'W.	2.26
AP14-15	S.62°49'W.	3.69
AP15-16	N.87°26'W.	3.71
AP16-17	N.53°39'W.	8.66
AP17-18	N.31°43'W.	8.67
AP18-19	N.61°45'W.	4.77
AP19-20	S.88°47'W.	15.38
AP20-21	S.34°27'W.	4.35
AP21-22	N.33°05'W.	6.52
AP22-23	S.70°07'W.	1.51
METES-AND-BOUNDS IN SECTION 7		
AP1-2	S.88°49'W.	2.93
AP2-3	N.87°47'W.	8.59
AP3-4	N.26°25'W.	20.87
AP4-5	S.75°53'W.	2.98
AP5-6	S.84°39'W.	10.53
AP6-7	S.81°50'W.	9.30
AP7-8	N.45°04'W.	8.09
AP8-9	S.75°16'W.	5.28
AP9-10	N.81°25'W.	5.74
AP10-11	N.80°07'W.	5.12
AP11-12	N.66°56'W.	4.71
AP12-13	S.27°35'W.	9.41
AP13-14	S.71°52'W.	9.80
AP14-15	S.42°14'W.	5.72
AP15-16	S.80°54'W.	4.81
AP16-17	S.17°09'E.	1.40
AP17-18	S.25°43'W.	3.16

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — July 11, 2005

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hansen

Acting Chief Cadastral Surveyor of Arizona

WJH

Field Notes in Book 5746

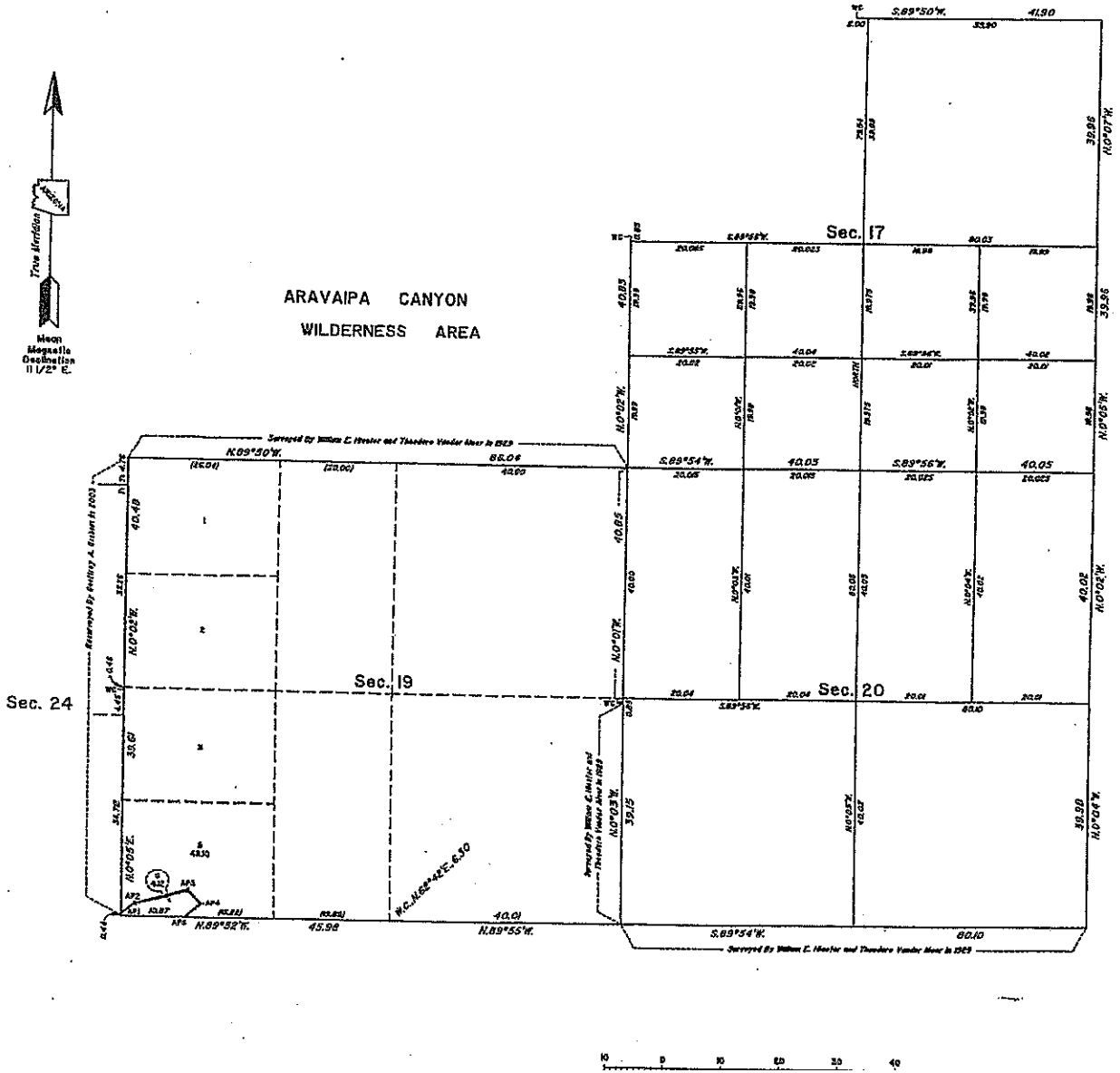
Officially Filed
DATE July 21, 2005

ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1707-F

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



Refer to sheet 1 for survey information.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 19		
AP1-2	N.48°55'E.	3.09
AP2-3	N.76°23'E.	9.28
AP3-4	S.48°01'E.	3.16
AP4-5	S.45°38'W.	3.79

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — July 11, 2005

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hanselman

Acting Chief Cadastral Surveyor of Arizona

Field Notes in Book 5746

Officially Filed
DATE July 21, 2005

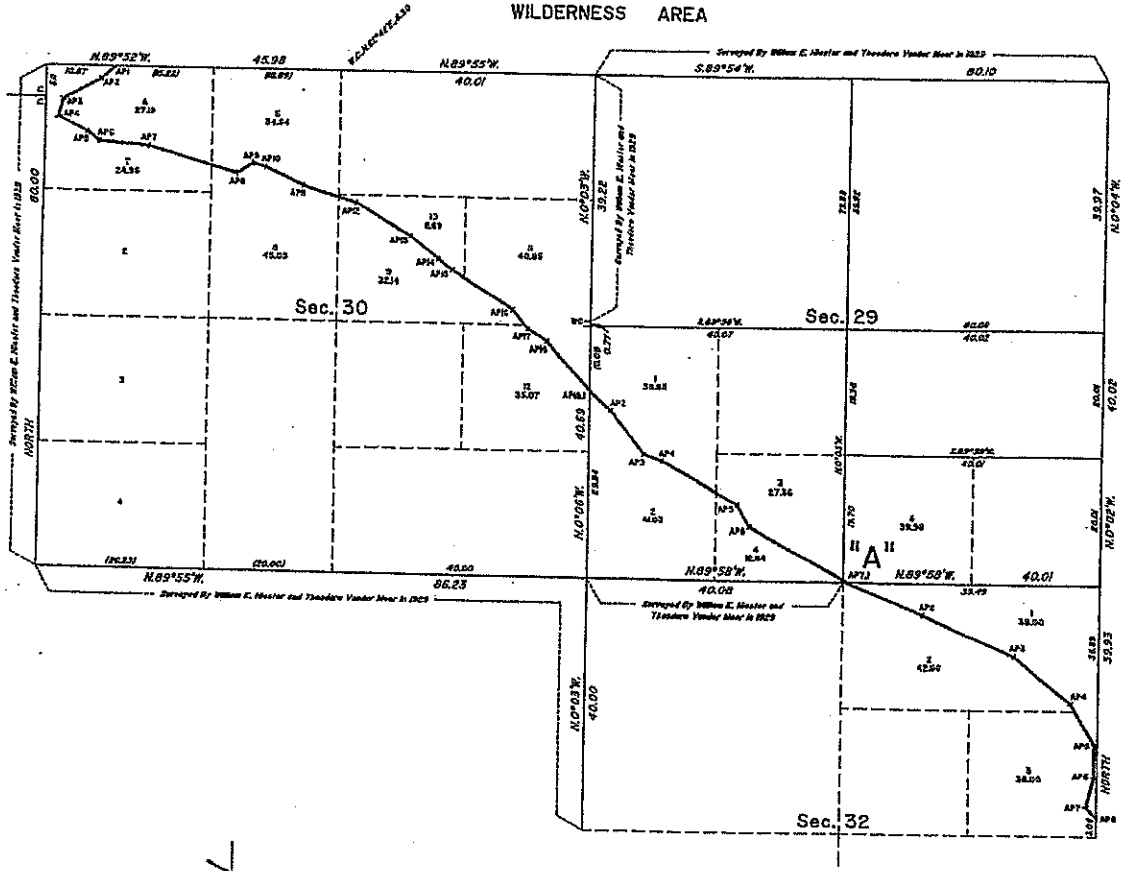
ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1707-G

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY

ARAVAIPA CANYON
WILDERNESS AREA



Refer to sheet 1 for survey information.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 30		
AP1-2	S.45°39'W.	3.00
AP2-3	S.61°10'W.	6.85
AP3-4	S.13°20'W.	3.03
AP4-5	S.63°42'E.	5.20
AP5-6	S.82°26'E.	2.38
AP6-7	S.85°04'E.	7.76
AP7-8	S.72°59'E.	14.42
AP8-9	N.55°13'E.	3.63
AP9-10	S.71°37'E.	8.09
AP10-11	S.65°58'E.	8.49
AP11-12	S.72°12'E.	8.78
AP12-13	S.80°06'E.	10.08
AP13-14	S.30°14'E.	5.72
AP14-15	S.61°59'E.	2.84
AP15-16	S.58°05'E.	11.27
AP16-17	S.36°16'E.	3.88
AP17-18	S.38°24'E.	3.63
AP18-19	S.42°22'E.	10.26
METES-AND-BOUNDS IN SECTION 29		
AP1-2	S.46°55'E.	4.49
AP2-3	S.37°12'E.	8.93
AP3-4	S.70°52'E.	3.04
AP4-5	S.80°00'E.	13.87
AP5-6	S.30°24'E.	3.89
AP6-7	S.61°08'E.	17.46
METES-AND-BOUNDS IN SECTION 32		
AP1-2	S.66°35'E.	12.98
AP2-3	S.68°07'E.	15.74
AP3-4	S.80°45'E.	11.51
AP4-5	S.31°26'E.	7.24
AP5-6	S. 0°18'E.	5.29
AP6-7	S.14°15'W.	4.90
AP7-8	S.41°42'E.	2.52

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — July 11, 2005

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hansen

Acting Chief Cadastral Surveyor of Arizona

Field Notes in Book 5746

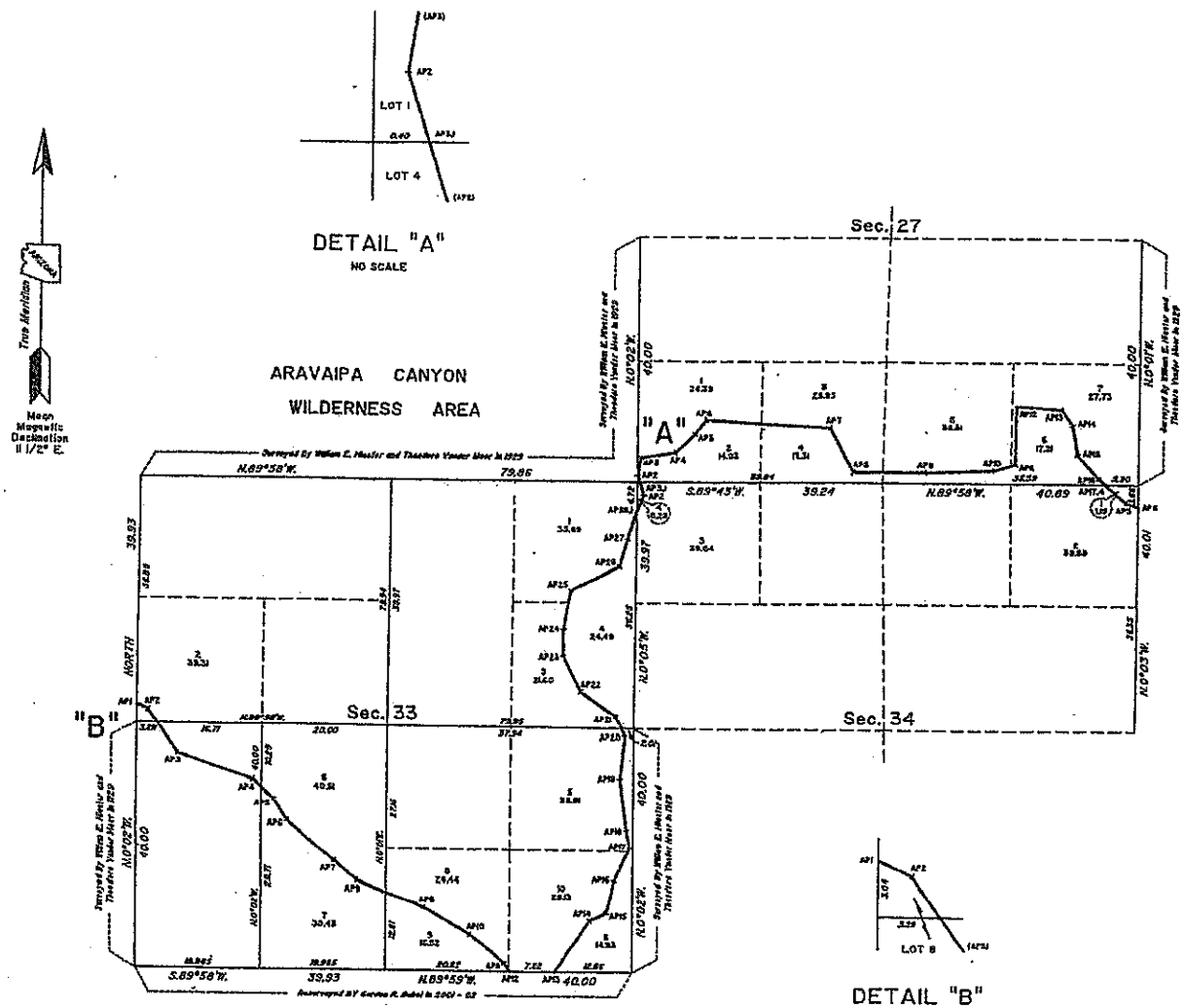
Officially Filed
DATE July 21, 2005

ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1707-H

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



Refer to sheet 1 for survey information.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 35		
AP1-2	S.64°32'E.	1.96
AP2-3	S.34°40'E.	8.44
AP3-4	S.70°31'E.	12.74
AP4-5	S.47°54'E.	4.86
AP5-6	S.30°44'E.	4.10
AP6-7	S.48°26'E.	10.13
AP7-8	S.49°36'E.	4.72
AP8-9	S.69°03'E.	11.69
AP9-10	S.59°41'E.	8.67
AP10-11	S.80°25'E.	7.50
AP11-12	S.84°05'E.	1.74
AP13-14	N.33°29'E.	10.15
AP14-15	N.63°06'E.	3.10
AP15-16	N.12°58'E.	6.18
AP16-17	N.24°22'E.	6.12
AP17-18	N.11°40'W.	2.97
AP18-19	N. 7°31'W.	8.38
AP19-20	N. 6°10'E.	7.07
AP20-21	N.25°24'W.	3.65
AP21-22	N.87°15'W.	6.83
AP22-23	N.27°24'W.	6.47
AP23-24	N. 0°01'W.	4.21
AP24-25	N. 9°39'E.	6.47
AP25-26	N.63°43'E.	8.72
AP26-27	N.15°23'E.	4.70
AP27-28	N.17°56'E.	5.00
METES-AND-BOUNDS IN SECTION 34		
AP1-2	N.22°17'E.	2.78
AP2-3	N.17°07'W.	2.25
METES-AND-BOUNDS IN SECTION 27		
AP1-2	N.17°07'W.	1.21
AP2-3	N. 6°18'E.	2.91
AP3-4	N.61°01'E.	5.54
AP4-5	N.46°28'E.	4.30
AP5-6	N.35°21'E.	3.09
AP6-7	S.86°24'E.	19.90
AP7-8	S.27°22'E.	8.15
AP8-9	N.69°28'E.	11.51
AP9-10	N.87°58'E.	10.81
AP10-11	N.73°34'E.	3.68
AP11-12	N. 0°52'E.	9.57
AP12-13	S.86°04'E.	7.18
AP13-14	S.54°02'E.	3.25
AP14-15	S. 9°50'E.	4.69
AP15-16	S.41°11'E.	5.16
AP16-17	S.48°03'E.	1.45
METES-AND-BOUNDS IN SECTION 34		
AP4-5	S.48°03'E.	4.42
AP5-6	S.70°41'E.	2.14

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — July 11, 2005

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hansen

Acting Chief Cadastral Surveyor of Arizona

Field Notes in Book 5746

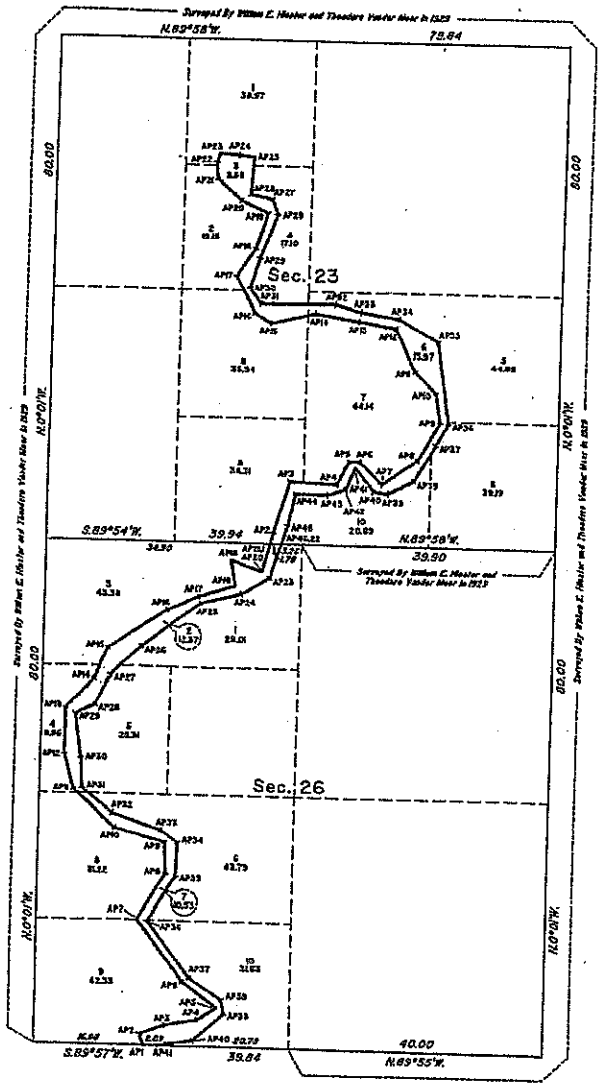
Officially Filed
DATE July 21, 2005

ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1707-1

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY

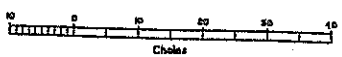


Refer to sheet 1 for survey information.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 26		
AP1-2	N.17°45'W.	1.91
AP2-3	N.66°03'E.	4.16
AP3-4	N.76°53'E.	5.19
AP4-5	N.56°15'E.	3.54
AP5-6	N.53°30'W.	6.79
AP6-7	N.36°39'W.	12.12
AP7-8	N.30°41'E.	8.63
AP8-9	N. 3°41'W.	4.75
AP9-10	N.74°28'W.	8.12
AP10-11	N.46°49'W.	9.12
AP11-12	N.15°47'W.	5.63
AP12-13	N. 0°14'W.	7.18
AP13-14	N.42°17'E.	6.39
AP14-15	N.22°08'E.	5.89
AP15-16	N.55°42'E.	11.05
AP16-17	N.64°12'E.	8.28
AP17-18	N.72°41'E.	5.94
AP18-19	N.10°06'W.	4.18
AP19-20	S.69°50'E.	8.16
AP20-21	N.14°52'E.	4.67
METES-AND-BOUNDS IN SECTION 23		
AP1-2	N.14°52'E.	1.92
AP2-3	N.16°54'E.	9.44
AP3-4	S.87°33'E.	7.52
AP4-5	N.27°02'E.	4.27
AP5-6	N.89°47'E.	1.64
AP6-7	S.44°10'E.	5.12
AP7-8	N.54°13'E.	6.81
AP8-9	N.29°43'E.	6.89
AP9-10	N. 9°29'W.	4.70
AP10-11	N.44°37'W.	4.83
AP11-12	N.25°56'W.	7.40
AP12-13	N.80°00'W.	5.52
AP13-14	N.80°33'W.	6.54
AP14-15	S.76°30'W.	7.19
AP15-16	N.89°03'W.	3.06
AP16-17	N.27°49'W.	6.60
AP17-18	N.34°22'E.	5.17
AP18-19	N.17°05'E.	6.04
AP19-20	N.65°05'W.	4.88
AP20-21	N.46°38'W.	6.20
AP21-22	N. 5°37'W.	2.54
AP22-23	N.16°14'E.	1.48
AP23-24	S.86°25'E.	3.01
AP24-25	S.81°37'E.	2.36
AP25-26	S. 3°16'W.	5.95
AP26-27	S.76°28'E.	3.54
AP27-28	S.20°30'E.	2.62
AP28-29	S.20°22'W.	7.66

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 23		
AP29-30	S.16°52'W.	4.97
AP30-31	S.35°35'E.	3.08
AP31-32	N.88°58'E.	11.70
AP32-33	S.74°55'E.	4.30
AP33-34	S.60°54'E.	6.04
AP34-35	S.60°04'E.	7.27
AP35-36	S. 6°36'E.	15.01
AP36-37	S.30°00'W.	3.82
AP37-38	S.29°48'W.	8.70
AP38-39	S.63°06'W.	4.49
AP39-40	N.82°13'W.	2.33
AP40-41	N.38°43'W.	4.72
AP41-42	S.22°15'W.	3.72
AP42-43	S.71°47'W.	8.00
AP43-44	N.86°14'W.	4.98
AP44-45	S.12°24'W.	5.29
AP45-46	S.17°13'W.	3.05
METES-AND-BOUNDS IN SECTION 26		
AP22-23	S.17°13'W.	5.80
AP23-24	S.85°17'W.	5.08
AP24-25	S.75°46'W.	6.54
AP25-26	S.61°55'W.	11.41
AP26-27	S.45°10'W.	6.69
AP27-28	S.24°41'W.	5.27
AP28-29	S.63°01'W.	3.87
AP29-30	S. 8°45'E.	6.96
AP30-31	S. 3°28'E.	4.65
AP31-32	S.48°49'E.	8.51
AP32-33	S.71°24'E.	7.98
AP33-34	S.53°30'E.	3.43
AP34-35	S. 1°49'W.	5.12
AP35-36	S.30°40'W.	8.44
AP36-37	S.36°42'E.	11.10
AP37-38	S.86°33'E.	6.24
AP38-39	S.10°49'E.	2.20
AP39-40	S.40°47'W.	6.68
AP40-41	S.81°32'W.	5.63

ARAVAIPA CANYON WILDERNESS AREA



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — July 11, 2005

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hannan

Acting Chief Cadastral Surveyor of Arizona

WJH

Field Notes in Book 5746

Officially Filed
DATE July 21, 2005

ORIGINAL

SHEET 9 OF 9

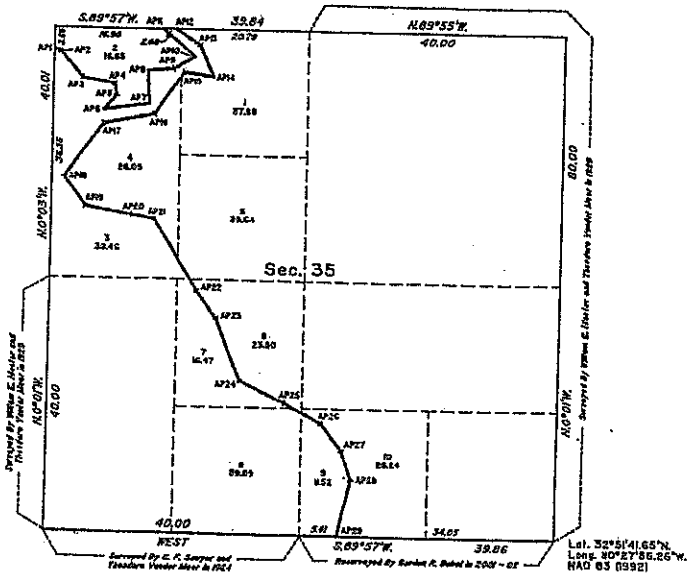
TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1707-J

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY

Refer to sheet 1 for survey information.

ARAVAIPA CANYON
WILDERNESS AREA



LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 35		
AP1-2	S.70°41'E.	1.05
AP2-3	S.41°14'E.	6.31
AP3-4	S.80°43'E.	5.07
AP4-5	S. 9°43'E.	2.09
AP5-6	S.42°47'W.	2.92
AP6-7	N.82°21'E.	7.15
AP7-8	N. 2°45'W.	8.25
AP8-9	N.84°35'E.	4.07
AP9-10	N.89°10'E.	3.74
AP10-11	N.47°44'W.	6.74
AP12-13	S.84°48'E.	4.51
AP13-14	S.24°20'E.	3.40
AP14-15	N.82°37'W.	4.57
AP15-16	S.34°14'W.	8.08
AP16-17	S.75°16'W.	8.16
AP17-18	S.35°06'W.	10.35
AP18-19	S.35°10'E.	5.87
AP19-20	S.78°47'E.	7.27
AP20-21	S.76°59'E.	5.76
AP21-22	S.31°19'E.	15.21
AP22-23	S.37°07'E.	6.17
AP23-24	S.21°45'E.	10.60
AP24-25	S.84°46'E.	7.81
AP25-26	S.61°07'E.	6.69
AP26-27	S.38°56'E.	5.36
AP27-28	S.18°29'E.	4.93
AP28-29	S.13°13'W.	8.98

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

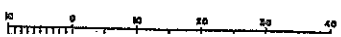
Phoenix, Arizona — July 11, 2005

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hansen

Acting Chief Cadastral Surveyor of Arizona



Field Notes in Book 5555

Officially Filed
DATE February 6, 2003

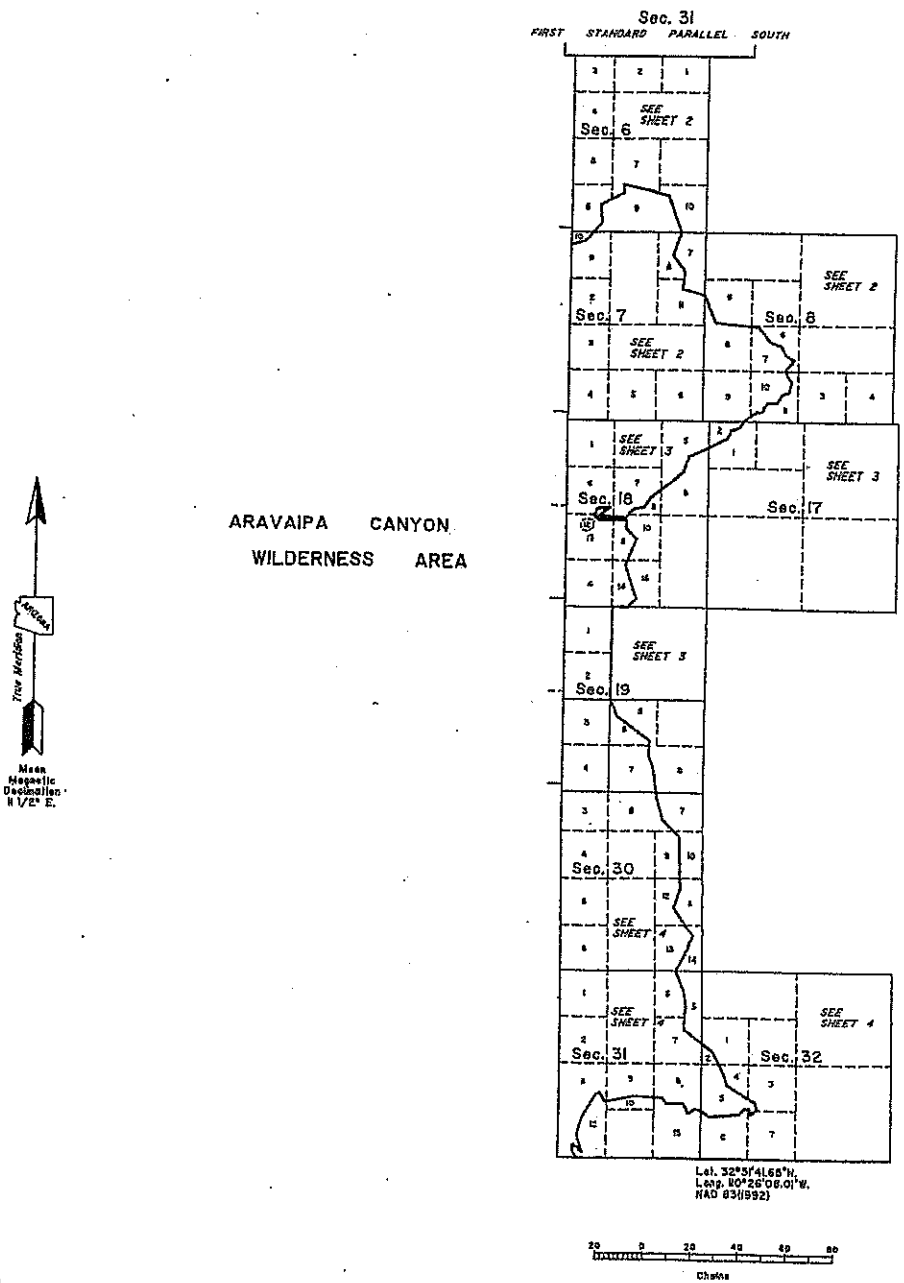
ORIGINAL

SHEET 1 OF 4

TOWNSHIP 6 SOUTH, RANGE 19 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1708-C

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



The history of surveys is contained in the field notes.

This plat, in 4 sheets, represents the dependent resurvey of a portion of the south and west boundaries and a portion of the subdivisional lines designed to restore the corners in their true original locations according to the best available evidence: the subdivision of section 19, and the metes-and-bounds survey of the Aravaipa Canyon Wilderness Area Boundary in Township 6 South, Range 19 East, Gila and Salt River Meridian, Arizona.

Except as indicated hereon, the lottings and areas are as shown on the plat approved March 20, 1926, accepted June 24, 1926.

This survey was executed by Gordon R. Bubel, Cadastral Surveyor, beginning February 12, 2001, and completed April 19, 2001, pursuant to Special Instructions dated January 17, 2001, for Group No. 860, Arizona.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — January 31, 2003

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Kenny D Lawhon

Chief Cadastral Surveyor of Arizona

WJH

Field Notes in Book 5655

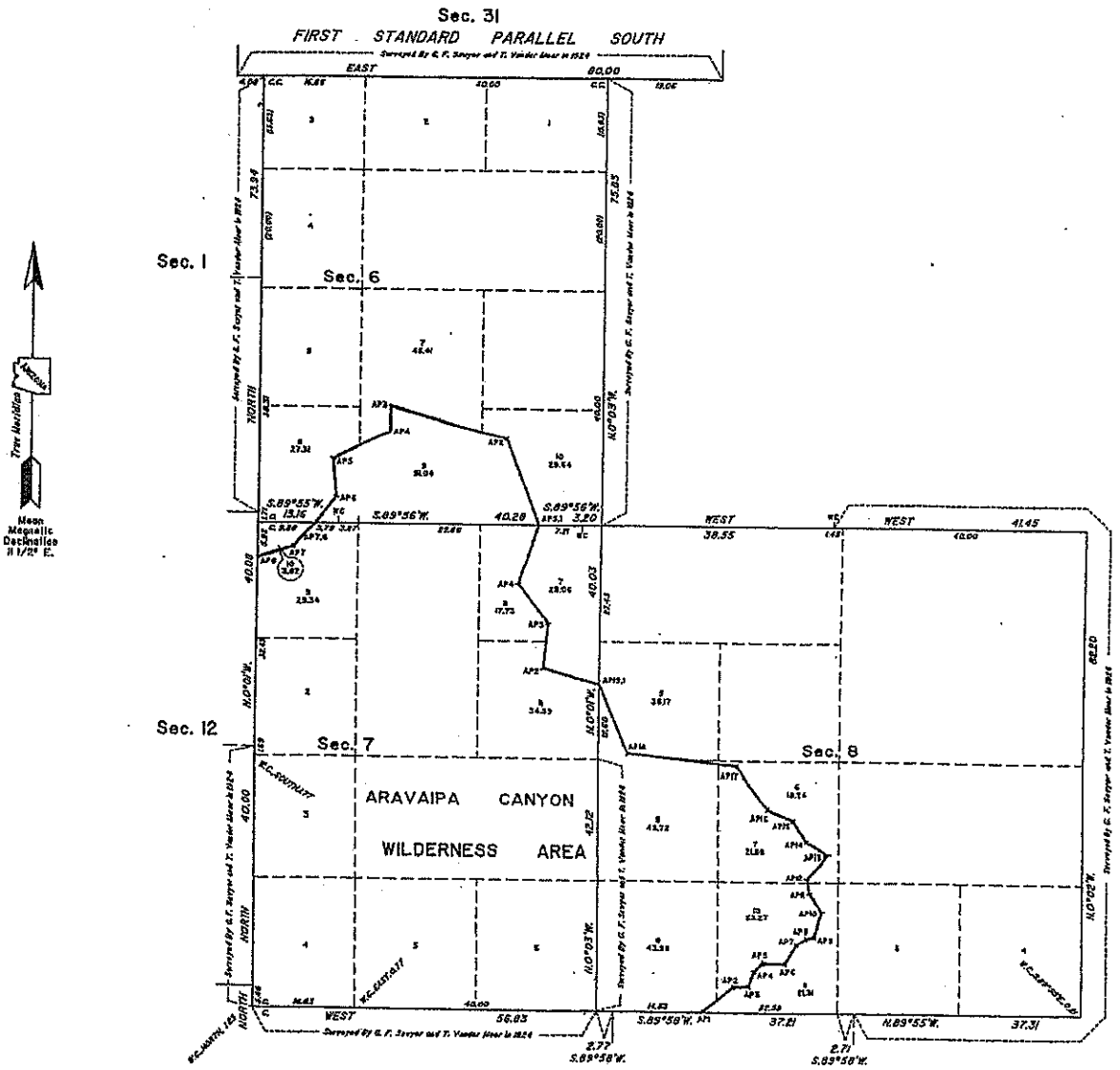
Officially Filed
DATE February 6, 2003

ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 19 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1708-D

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



Refer to sheet 1 for survey information.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 6		
AP1-2	N.49°52'E.	6.90
AP2-3	N.88°11'E.	2.48
AP3-4	N.17°53'E.	2.74
AP4-5	N.44°28'E.	2.16
AP5-6	S.87°54'E.	3.67
AP6-7	N.31°18'E.	3.58
AP7-8	N.57°43'E.	1.94
AP8-9	N.78°51'E.	1.37
AP9-10	N.15°00'E.	4.51
AP10-11	N.33°53'W.	3.76
AP11-12	N. 9°58'W.	2.50
AP12-13	N.39°08'E.	5.88
AP13-14	N.57°05'E.	4.18
AP14-15	N.30°27'W.	4.20
AP15-16	N.69°38'W.	4.64
AP16-17	N.36°16'W.	6.60
AP17-18	N.84°11'W.	15.25
AP18-19	N.22°58'W.	12.64
METES-AND-BOUNDS IN SECTION 7		
AP1-2	N.74°04'W.	8.89
AP2-3	N. 4°48'E.	7.85
AP3-4	N.37°09'W.	8.14
AP4-5	N.17°48'E.	10.73
METES-AND-BOUNDS IN SECTION 8		
AP1-2	N.30°31'W.	15.95
AP2-3	N.74°17'W.	19.93
AP3-4	S. 0°23'E.	4.72
AP4-5	S.61°51'W.	10.64
AP5-6	S. 8°16'E.	6.67
AP6-7	S.36°42'W.	5.60
METES-AND-BOUNDS IN SECTION 7		
AP6-7	S.41°05'W.	8.36
AP7-8	S.72°02'W.	6.18

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — January 31, 2003

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Kenny D. Ravnaker

Chief Cadastral Surveyor of Arizona

Field Notes in Book 5655

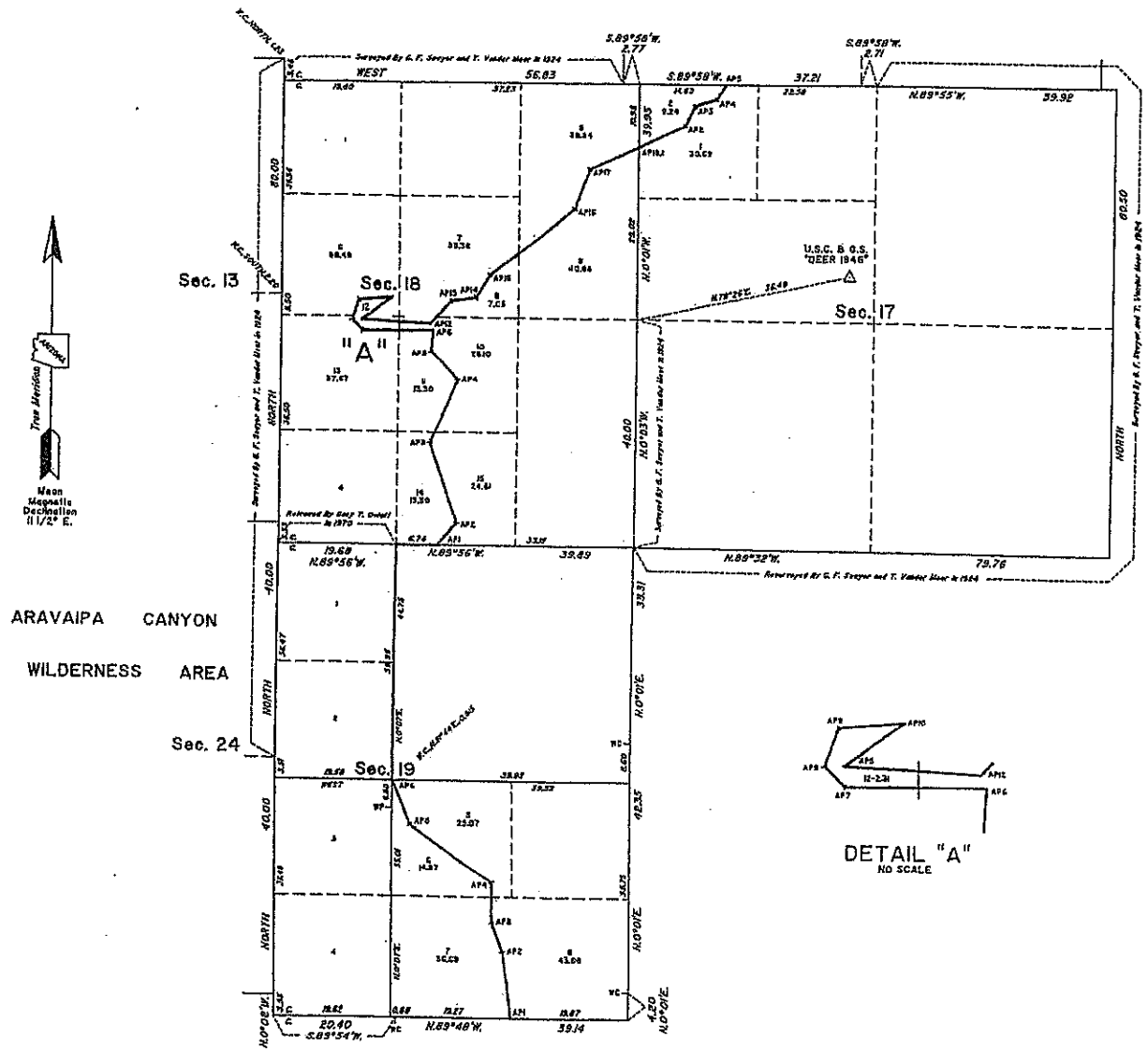
Officially Filed
DATE February 6, 2003

ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 19 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1708-E

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



Refer to sheet 1 for survey information.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 19		
AP1-2	N. 7°32'W.	10.75
AP2-3	N.20°41'W.	5.28
AP3-4	N. 0°05'E.	5.61
AP4-5	N.53°33'W.	17.10
AP5-6	N.21°44'W.	8.08
METES-AND-BOUNDS IN SECTION 18		
AP1-2	N.40°50'E.	6.08
AP2-3	N.18°11'W.	14.91
AP3-4	N.22°13'E.	12.10
AP4-5	N.42°24'W.	5.71
AP5-6	N. 3°28'E.	3.66
AP6-7	S.69°43'W.	11.83
AP7-8	N.45°06'W.	2.46
AP8-9	N.19°20'E.	3.50
AP9-10	N.84°51'E.	5.54
AP10-11	S.63°09'W.	6.29
AP11-12	S.87°05'E.	11.46
AP12-13	N.48°45'E.	5.19
AP13-14	N.82°35'E.	4.16
AP14-15	N.52°10'E.	4.37
AP15-16	N.62°11'E.	17.87
AP16-17	N.15°03'E.	7.67
AP17-18	N.64°43'E.	9.05
METES-AND-BOUNDS IN SECTION 17		
AP1-2	N.63°40'E.	8.72
AP2-3	N.24°59'E.	3.66
AP3-4	N.72°13'E.	3.90
AP4-5	N.31°24'E.	3.00

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — January 31, 2003

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Kenny D Kaomtar

Chief Cadastral Surveyor of Arizona

W.JH

Field Notes in Book 5655

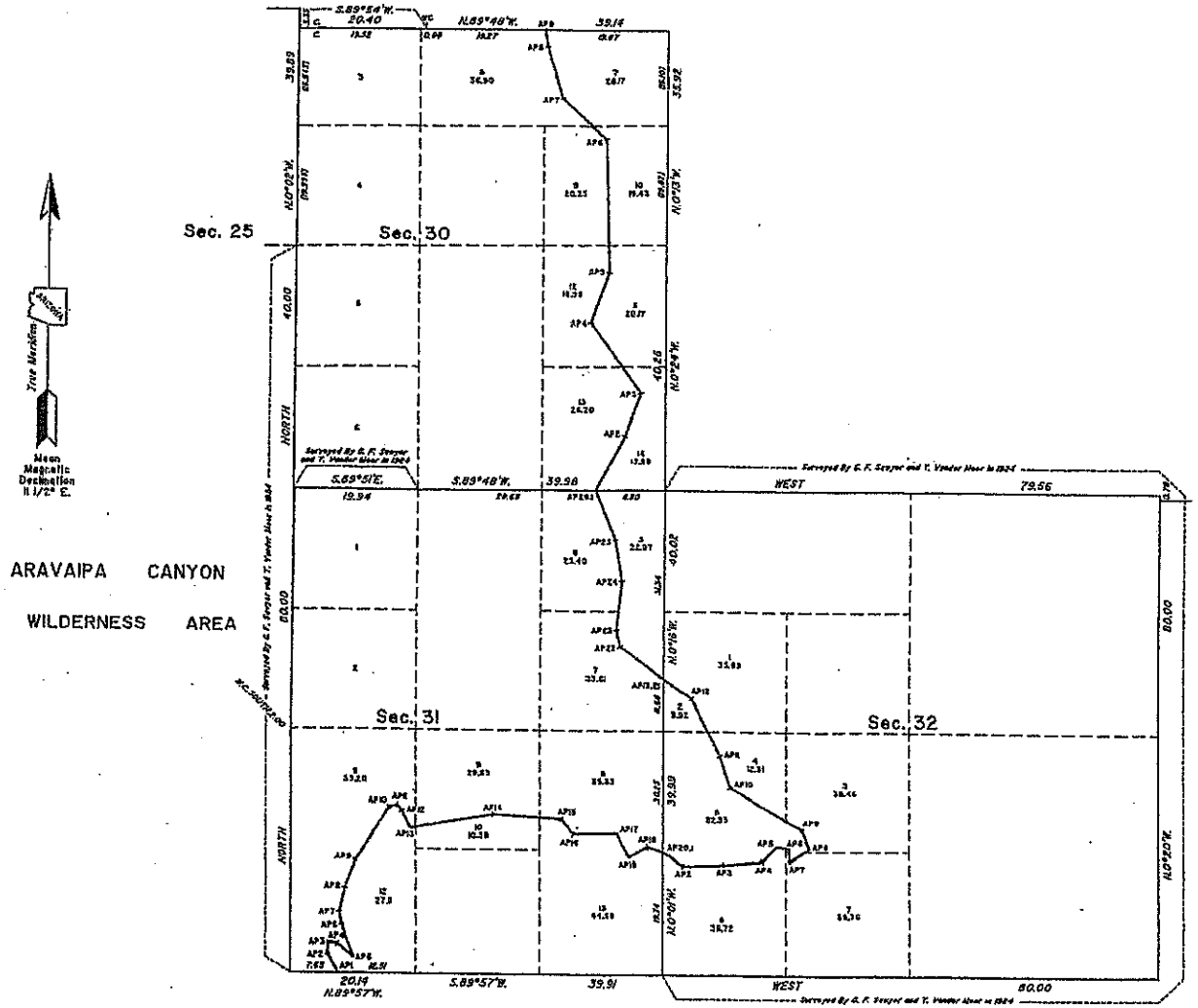
Officially Filed
DATE February 6, 2003

ORIGINAL

TOWNSHIP 6 SOUTH, RANGE 19 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1708-F

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



Refer to sheet 1 for survey information.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 31		
AP1-2	N.29°18'W.	3.41
AP2-3	N. 1°38'E.	2.01
AP3-4	S.73°51'E.	1.52
AP4-5	S.50°28'E.	3.31
AP5-6	N.19°38'W.	5.61
AP6-7	N. 9°56'W.	2.17
AP7-8	N.13°12'E.	3.80
AP8-9	N.20°54'E.	4.76
AP9-10	N.30°25'E.	10.62
AP10-11	N.74°32'E.	1.38
AP11-12	S.35°10'E.	1.24
AP12-13	S.23°36'E.	3.26
AP13-14	N.78°27'E.	13.46
AP14-15	S.86°04'E.	11.18
AP15-16	S.36°27'E.	3.18
AP16-17	N.88°53'E.	7.03
AP17-18	S.27°46'E.	4.48
AP18-19	N.58°54'E.	3.46
AP19-20	S.70°56'E.	2.69
METES-AND-BOUNDS IN SECTION 32		
AP1-2	S.55°37'E.	5.99
AP2-3	N.87°45'E.	6.57
AP3-4	N.84°31'E.	6.29
AP4-5	N.43°05'E.	3.43
AP5-6	S.80°15'E.	1.96
AP6-7	S. 3°25'E.	2.16
AP7-8	N.56°40'E.	3.86
AP8-9	N.21°20'W.	3.44
AP9-10	N.56°27'W.	13.65
AP10-11	N.18°01'W.	8.48
AP11-12	N.26°28'W.	10.45
AP12-13	N.54°19'W.	9.60
METES-AND-BOUNDS IN SECTION 31		
AP21-22	N.53°20'W.	8.83
AP22-23	N.11°07'W.	2.81
AP23-24	N. 5°30'E.	8.25
AP24-25	N. 9°50'W.	6.77
AP25-26	N.22°00'W.	8.87
METES-AND-BOUNDS IN SECTION 30		
AP1-2	N.27°48'E.	9.96
AP2-3	N.20°11'E.	7.37
AP3-4	N.35°19'W.	14.31
AP4-5	N.18°33'E.	8.84
AP5-6	N. 1°50'W.	22.04
AP6-7	N.45°58'W.	8.99
AP7-8	N.16°14'W.	9.08
AP8-9	N. 7°52'W.	2.81

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — January 31, 2003

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Kenny D Kavanagh

Chief Cadastral Surveyor of Arizona

Field Notes In Book 5656 DATE February 13, 2003

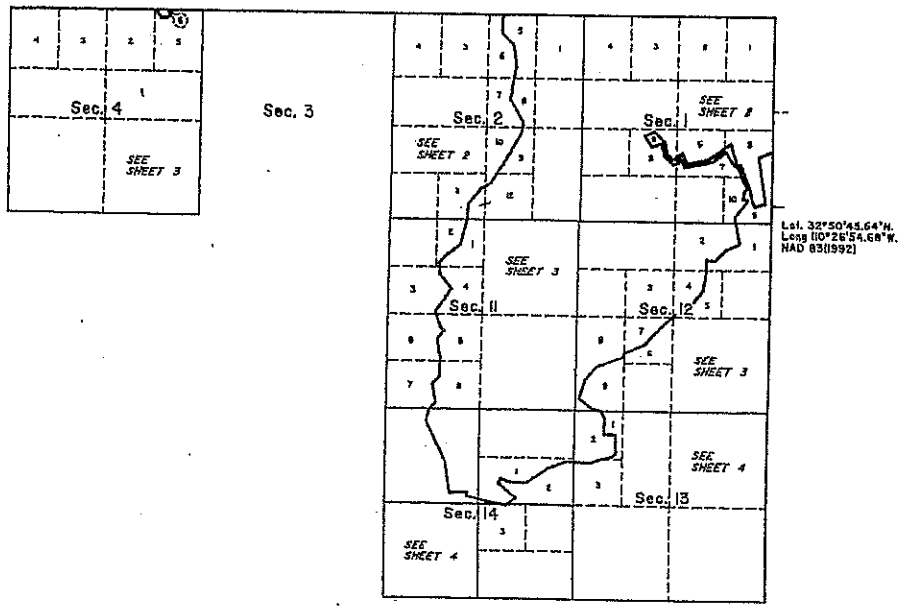
SHEET 1 OF 4

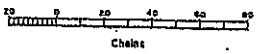
TOWNSHIP 7 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1753-A

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY

ARAVAIPA CANYON
WILDERNESS AREA





The history of surveys is contained in the field notes.

This plat represents the dependent resurvey of a portion of the east and north boundaries and a portion of the subdivisional lines designed to restore the corners in their true original locations according to the best available evidence, the subdivision of section 14 and the metes-and-bounds survey of the Aravaipa Canyon Wilderness Area Boundary, Township 7 South, Range 18 East, Gila and Salt River Meridian, Arizona.

Except as indicated hereon, the lottings and areas are as shown on the plat approved March 20, 1926, accepted June 24, 1926.

This survey was executed by Gordon R. Bubel, Cadastral Surveyor, beginning May 7, 2001, and completed February 26, 2002, pursuant to Special Instructions dated January 17, 2001, for Group No. 860, Arizona.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona February 10, 2003

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Kenny D Ravnikar

Chief Cadastral Surveyor of Arizona

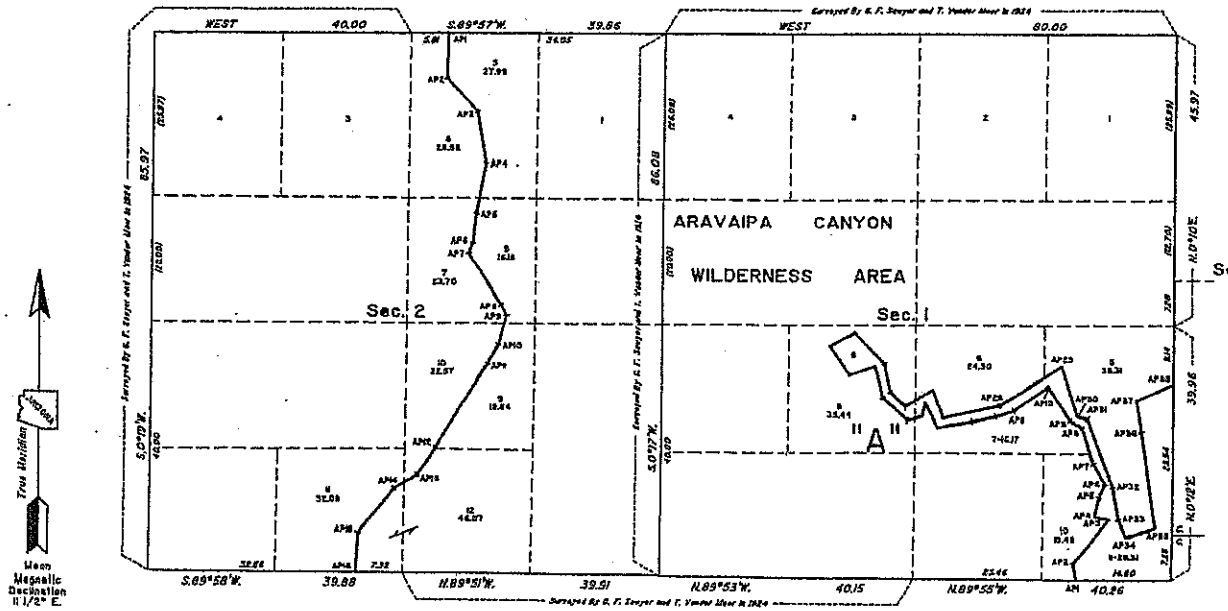
WJH

TOWNSHIP 7 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1753-B

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY

Refer to sheet 1 for survey information.



LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 2		
AP1-2	S. 1°23'W.	7.11
AP2-3	S.41°15'E.	7.27
AP3-4	S. 9°54'E.	8.14
AP4-5	S.10°36'W.	7.88
AP5-6	S. 5°56'W.	4.62
AP6-7	S.21°42'W.	1.78
AP7-8	S.31°22'E.	9.72
AP8-9	S.25°24'E.	1.98
AP9-10	S.14°45'W.	4.87
AP10-11	S.28°20'W.	3.62
AP11-12	S.31°10'W.	16.38
AP12-13	S.32°58'W.	5.25
AP13-14	S.58°25'W.	4.25
AP14-15	S.58°29'W.	6.91
AP15-16	S. 2°39'W.	6.42
METES-AND-BOUNDS IN SECTION 1		
AP1-2	N.11°51'W.	2.54
AP2-3	N.38°01'E.	8.90
AP3-4	N.77°30'W.	2.29
AP4-5	N.12°35'E.	3.16
AP5-6	N.25°17'E.	2.20
AP6-7	N.29°26'W.	3.75
AP7-8	N.17°58'W.	9.98
AP8-9	N.59°20'W.	2.24
AP9-10	N.32°08'W.	8.57
AP10-11	S.53°35'W.	8.57
AP11-12	S.72°53'W.	2.98
AP12-13	S.77°36'W.	3.72
AP13-14	S.75°26'W.	8.52
AP14-15	N.25°16'W.	4.34
AP15-16	S.15°18'W.	2.18
AP16-17	S.73°32'W.	2.34
AP17-18	N.47°12'W.	5.24
AP18-19	N.14°29'W.	8.15
AP19-20	S.69°39'W.	4.24
AP20-21	N.33°18'W.	5.62
AP21-22	N.61°46'E.	4.39
AP22-23	S.43°44'E.	6.76
AP23-24	S.11°41'E.	4.48
AP24-25	S.44°58'E.	3.34
AP25-26	N.57°28'E.	8.05
AP26-27	S.20°18'E.	4.80
AP27-28	N.77°27'E.	9.00
AP28-29	N.57°07'E.	11.52
AP29-30	S.17°24'E.	6.29
AP30-31	E.77°58'E.	11.88
AP31-32	S.20°37'E.	11.47
AP32-33	S. 9°48'E.	5.16
AP33-34	S.24°46'E.	2.98
AP34-35	N.72°46'E.	4.64
AP35-36	N. 8°11'W.	15.25
AP36-37	N. 9°02'W.	8.02
AP37-38	N.65°42'E.	6.29

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — February 10, 2003

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

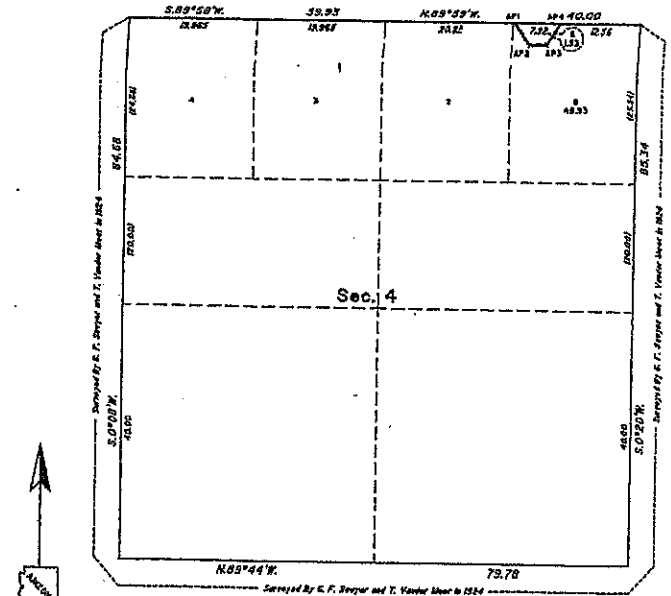
Kenny D Ravnikar

Chief Cadastral Surveyor of Arizona

TOWNSHIP 7 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

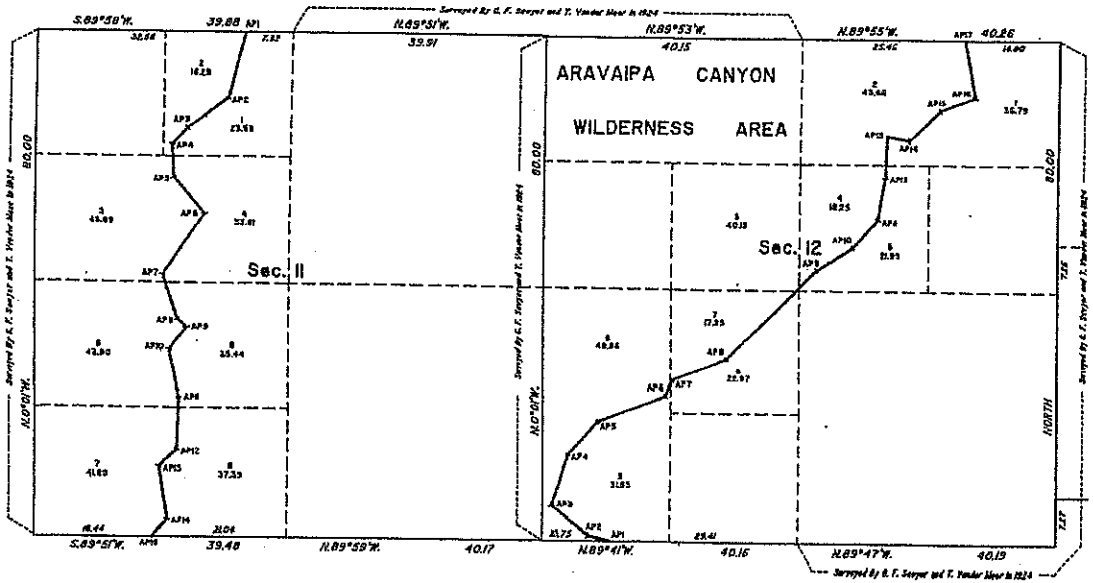
1753-C

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



Refer to sheet 1 for survey information.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 4		
AP1-2	S.38°58'E.	4.03
AP2-3	N.88°25'E.	2.65
AP3-4	N.33°43'E.	3.67
METES-AND-BOUNDS IN SECTION 11		
AP1-2	S.13°42'W.	11.00
AP2-3	S.53°30'W.	7.82
AP3-4	S.41°38'W.	3.63
AP4-5	S. 3°14'E.	6.43
AP5-6	S.40°40'E.	7.52
AP6-7	S.34°10'W.	11.59
AP7-8	S.19°09'E.	7.23
AP8-9	S.48°58'E.	1.98
AP9-10	S.37°34'W.	4.49
AP10-11	S.11°04'E.	7.65
AP11-12	S. 1°48'W.	8.32
AP12-13	S.46°28'W.	5.85
AP13-14	S. 9°11'E.	9.35
AP14-15	S.41°10'W.	3.66
METES-AND-BOUNDS IN SECTION 12		
AP1-2	N.76°27'W.	3.79
AP2-3	N.51°07'W.	7.27
AP3-4	N.17°45'E.	8.31
AP4-5	N.42°11'E.	6.88
AP5-6	N.67°49'E.	11.59
AP6-7	N.23°18'E.	2.50
AP7-8	N.65°47'E.	9.36
AP8-9	N.44°52'E.	19.85
AP9-10	N.38°37'E.	6.64
AP10-11	N.40°44'E.	5.90
AP11-12	N. 9°58'E.	8.78
AP12-13	N. 1°17'E.	8.86
AP13-14	N.77°31'E.	3.50
AP14-15	N.48°53'E.	5.77
AP15-16	N.66°44'E.	5.85
AP16-17	N.10°42'W.	9.34



Mean Magnetic Declination 11 1/2° E.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — February 10, 2003

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Kenny D Rawnker

Chief Cadastral Surveyor of Arizona

WJH

Field Notes in Book 5656

Officially Filed
DATE February 13, 2003

ORIGINAL

TOWNSHIP 7 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

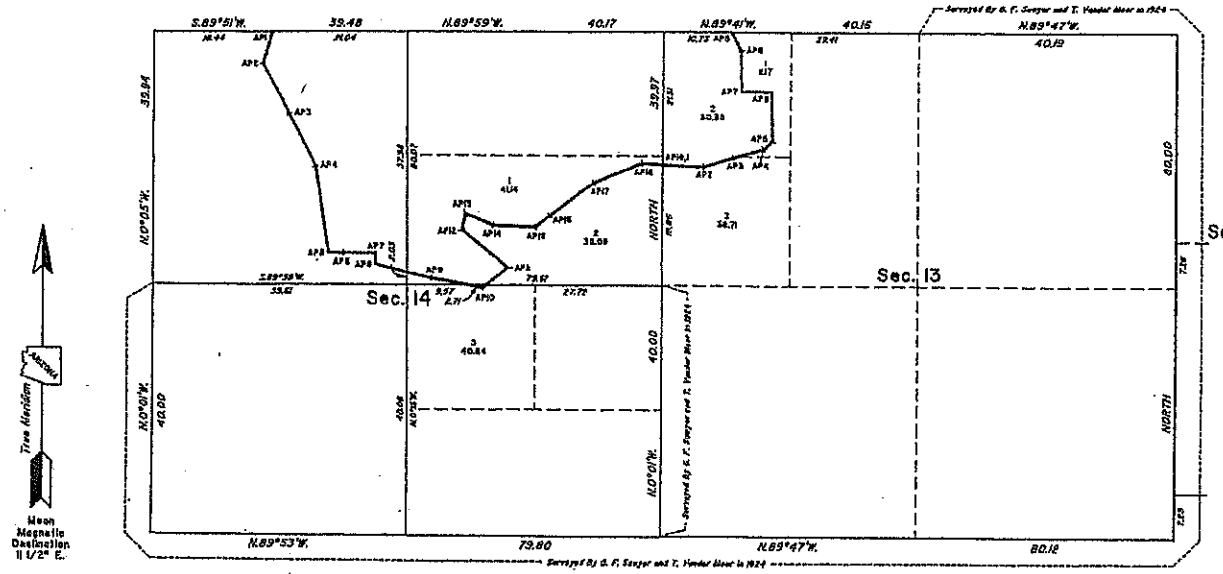
1753-D

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY

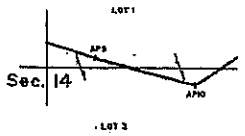
Refer to sheet 1 for survey information.

ARAVAIPA CANYON

WILDERNESS AREA



LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 14		
AP1-2	S.16°05'W.	5.31
AP2-3	S.27°25'E.	9.15
AP3-4	S.28°51'E.	9.38
AP4-5	S. 8°45'E.	13.47
AP5-6	N.89°56'E.	2.42
AP6-7	N.68°57'E.	4.95
AP7-8	S. 0°14'E.	1.69
AP8-9	S.75°36'E.	9.06
AP9-10	S.79°45'E.	8.09
AP10-11	N.51°28'E.	5.11
AP11-12	N.61°13'W.	9.31
AP12-13	N.13°01'E.	2.85
AP13-14	S.67°29'E.	4.60
AP14-15	S.87°33'E.	6.72
AP15-16	N.50°39'E.	2.85
AP16-17	N.54°16'E.	8.54
AP17-18	N.67°48'E.	6.21
AP18-19	S.85°14'E.	3.21
METES-AND-BOUNDS IN SECTION 13		
AP1-2	S.66°50'E.	6.43
AP2-3	N.76°48'E.	4.91
AP3-4	N.74°37'E.	4.98
AP4-5	N.46°45'E.	1.85
AP5-6	N. 1°08'W.	7.91
AP6-7	N.89.07'W.	4.76
AP7-8	N. 0°45'W.	6.57
AP8-9	N.26°48'W.	3.37



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

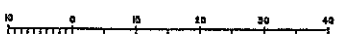
Phoenix, Arizona — February 10, 2003

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Kenny D Rawnkar

Chief Cadastral Surveyor of Arizona



Field Notes in Book 5657

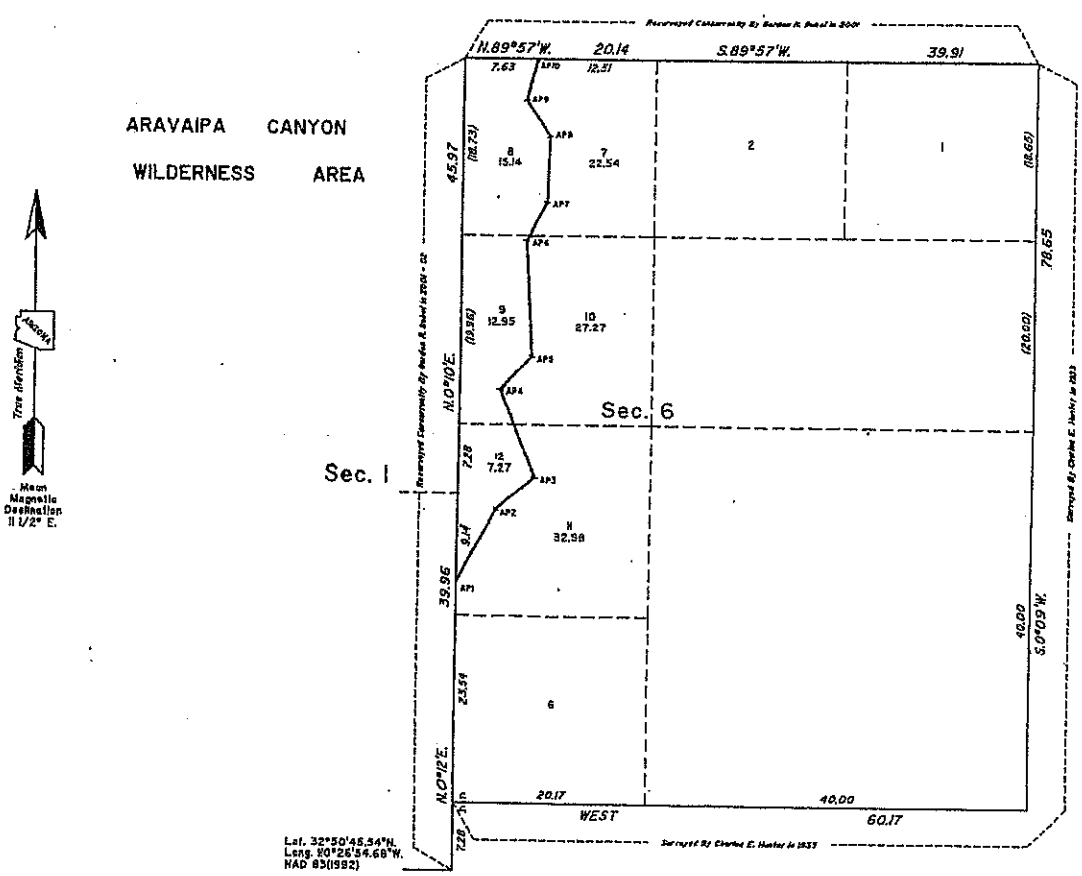
Officially Filed
DATE February 13, 2003

ORIGINAL

1755-A

TOWNSHIP 7 SOUTH, RANGE 19 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY IN SECTION 6



The history of surveys is contained in the field notes.

This plat represents the metes-and-bounds survey of the Aravaipa Canyon Wilderness Area Boundary in Township 7 South, Range 19 East, Gila and Salt River Meridian, Arizona.

Except as indicated hereon, the lottings and areas are as shown on the plat approved August 27, 1934, accepted February 23, 1935.

This survey was executed by Gordon R. Bubel, Cadastral Surveyor, beginning May 7, 2001, and completed May 8, 2001, pursuant to Special Instructions dated January 17, 2001, for Group No. 860, Arizona.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 6		
AP1-2	N.28°10'E.	8.46
AP2-3	N.48°37'E.	5.28
AP3-4	N.21°58'W.	9.90
AP4-5	N.42°51'E.	4.77
AP5-6	N. 2°55'W.	12.30
AP6-7	N.27°27'E.	4.60
AP7-8	N. 1°42'E.	6.83
AP8-9	N.35°00'W.	4.60
AP9-10	N.15°51'E.	4.63

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — February 10, 2003

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Kenny D Ravnikar

Chief Cadastral Surveyor of Arizona

Field Notes in Book 5730

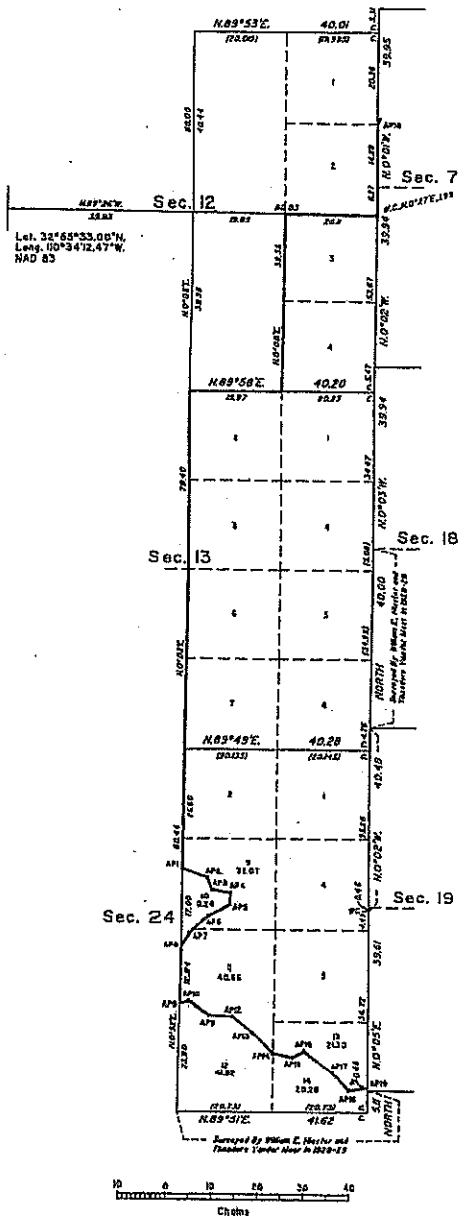
Officially Filed
DATE April 28, 2005

ORIGINAL

1704-G

TOWNSHIP 6 SOUTH, RANGE 17 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



LINE	BEARING	DISTANCE
METES-AND-BOUNDS IN SECTION 24		
AP1-2	S.69°29'E.	5.73
AP2-3	S.23°08'E.	2.84
AP3-4	S.83°00'E.	3.84
AP4-5	S. 1°17'W.	10.54
AP5-6	S.62°12'W.	8.26
AP6-7	S.47°55'W.	3.57
AP7-8	S.32°59'W.	3.31
AP8-10	N.71°14'E.	1.36
AP10-11	S.56°56'E.	5.45
AP11-12	S.88°36'E.	4.90
AP12-13	S.50°10'E.	3.88
AP13-14	S.45°52'E.	8.24
AP14-15	S.77°17'E.	4.45
AP15-16	N.60°03'E.	2.87
AP16-17	S.52°27'E.	7.87
AP17-18	S.41°46'E.	5.40
AP18-19	N.80°08'E.	4.17

ARAVAIPA CANYON WILDERNESS AREA

The history of surveys is contained in the field notes.

This plat represents the dependent resurvey of a portion of the east boundary and a portion of the subdivisional lines designed to restore the corners in their true original locations according to the best available evidence; the subdivision of sections 12, 13 and 24 and the metes-and-bounds survey of the Aravaipa Canyon Wilderness Area Boundary in, Township 6 South, Range 17 East, Gila and Salt River Meridian, Arizona.

Except as indicated hereon, the lottings and areas are as shown on the plat approved December 7, 1929, accepted February 3, 1930.

This survey was executed by Geoffrey A. Graham, Cadastral Surveyor, beginning March 4, 2003, and completed March 22, 2003, pursuant to Special Instructions dated January 17, 2001, for Group No. 860, Arizona.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — April 20, 2005

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hanson

Acting Chief Cadastral Surveyor of Arizona

WJH

Field Notes in Book 5936

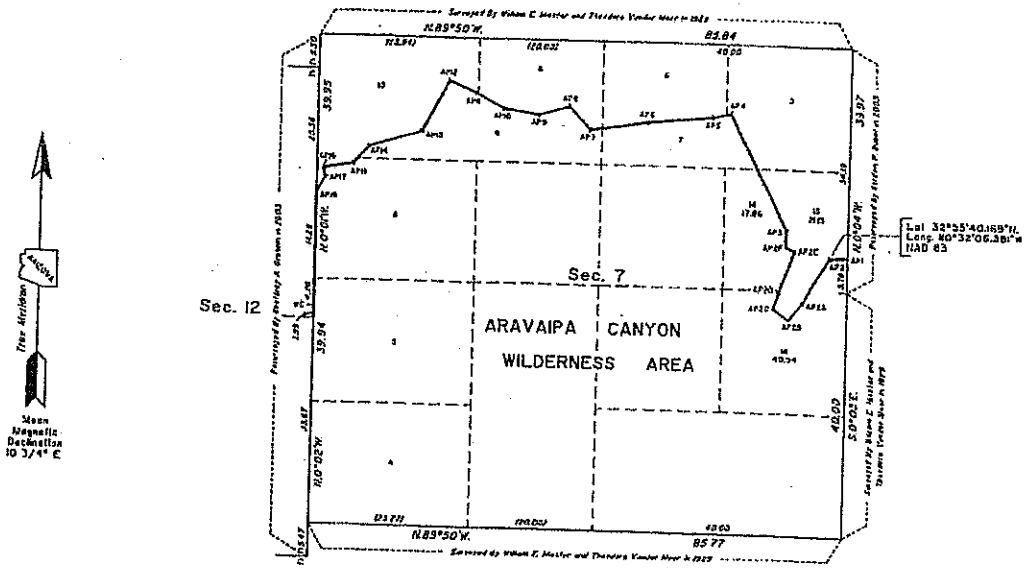
Officially Filed
DATE March 31, 2011

ORIGINAL

1707-L

TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

CORRECTIVE RESURVEY OF A METES-AND-BOUNDS SURVEY OF THE ARAVAIPA CANYON WILDERNESS BOUNDARY



The history of surveys is contained in the field notes.

This plat represents the corrective resurvey of a portion of the metes-and-bounds survey of the Aravaipa Canyon Wilderness Area Boundary in section 7, Township 6 South, Range 18 East, Gila and Salt River Meridian, Arizona.

Except as indicated hereon, the lottings and areas are as shown on the plat approved December 7, 1929, accepted February 3, 1930, and the plat accepted July 11, 2005.

This survey was executed by Gordon R. Bubel, Cadastral Surveyor, beginning February 16, 2011, and completed February 16, 2011, pursuant to Special Instructions dated January 17, 2001, and Supplemental Special Instructions dated February 14, 2011, for Group No. 860, Arizona.

LINE	BEARING	DISTANCE
METES-AND-BOUNDS SURVEY OF ARAVAIPA CANYON WILDERNESS BDY. IN SECTION 7		
AP2-2A	S. 29°19'W.	8.65
AP2A-2B	S. 36°08'W.	5.72
AP2B-2C	N. 51°21'W.	3.17
AP2C-2D	N. 17°32'E.	2.62
AP2D-2E	N. 19°13'E.	7.52
AP2E-2F	N. 69°16'W.	1.33
AP2F-3	N. 0°14'E.	2.86

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — March 30, 2011

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hansen

Chief Cadastral Surveyor of Arizona

WJH

Officially Filed
DATE April 19, 2007

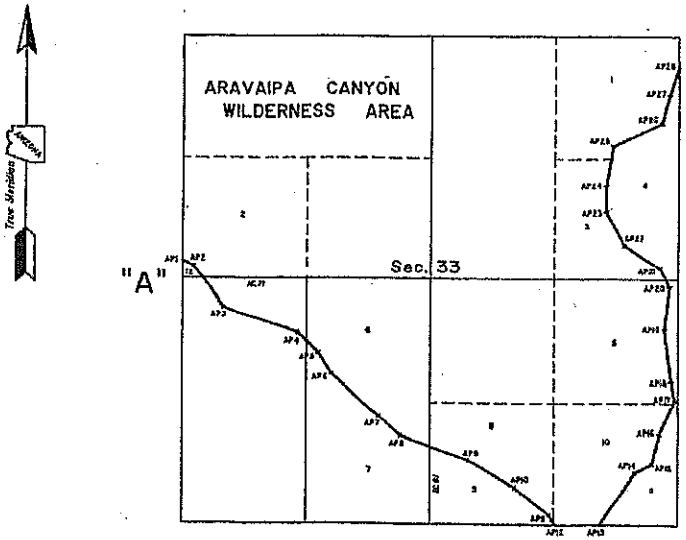
ORIGINAL

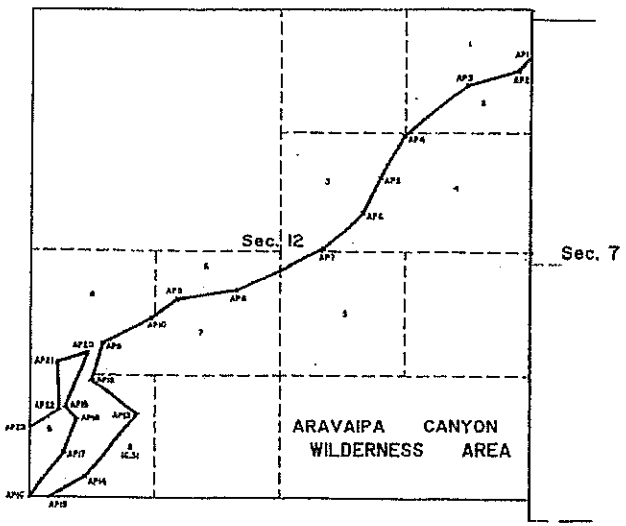
1707-K

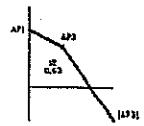
TOWNSHIP 6 SOUTH, RANGE 18 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

SUPPLEMENTAL PLAT

This supplemental plat showing amended lottings in sections 12 and 33, Township 6 South, Range 18 East, Gila and Salt River Meridian, Arizona, is based upon the plat accepted July 11, 2005.







DETAIL "A"
NO SCALE

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona — April 17, 2007

This plat, showing amended lottings, is based upon the official records and, having been correctly prepared in accordance with the regulations of this Bureau, is hereby accepted.

For the Director

Stephen K. Hansen

Chief Cadastral Surveyor of Arizona

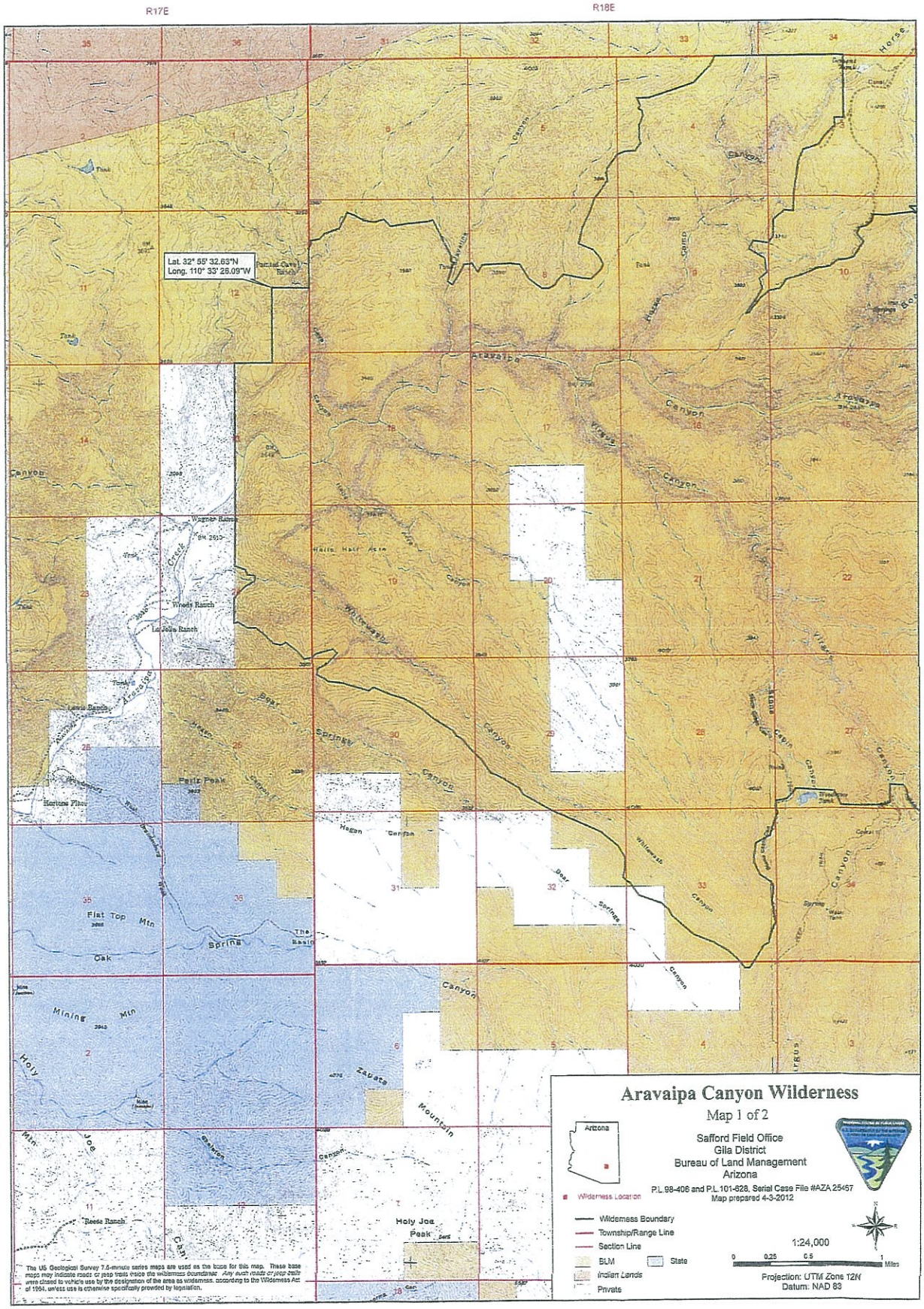
WJH

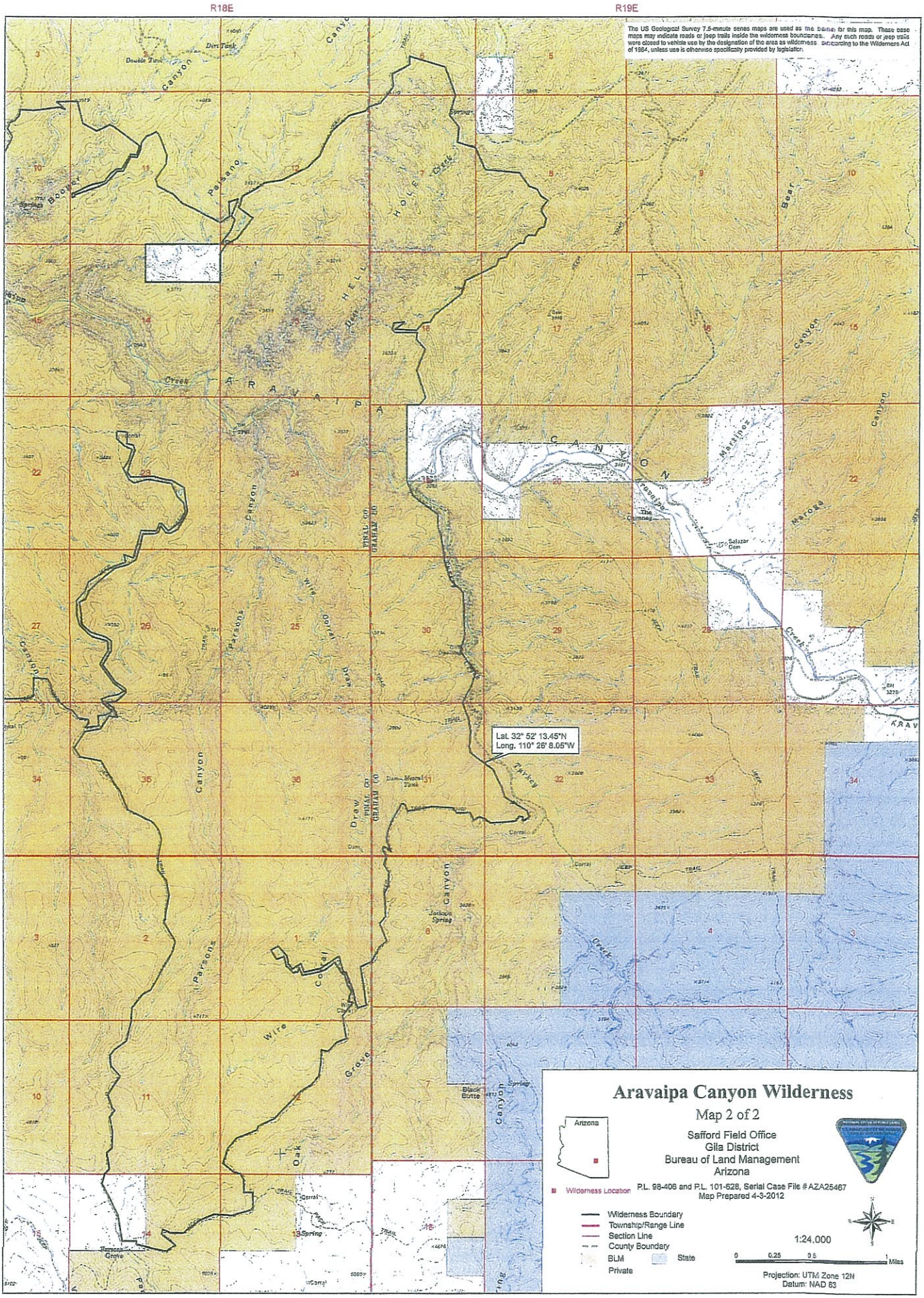
The legal descriptive boundary of the Aravaipa Canyon Wilderness Area is a composite of field notes of the approved surveys executed in the individual townships. For detailed information regarding the history of the survey of the Wilderness Area, refer to the approved field notes of the individual townships.

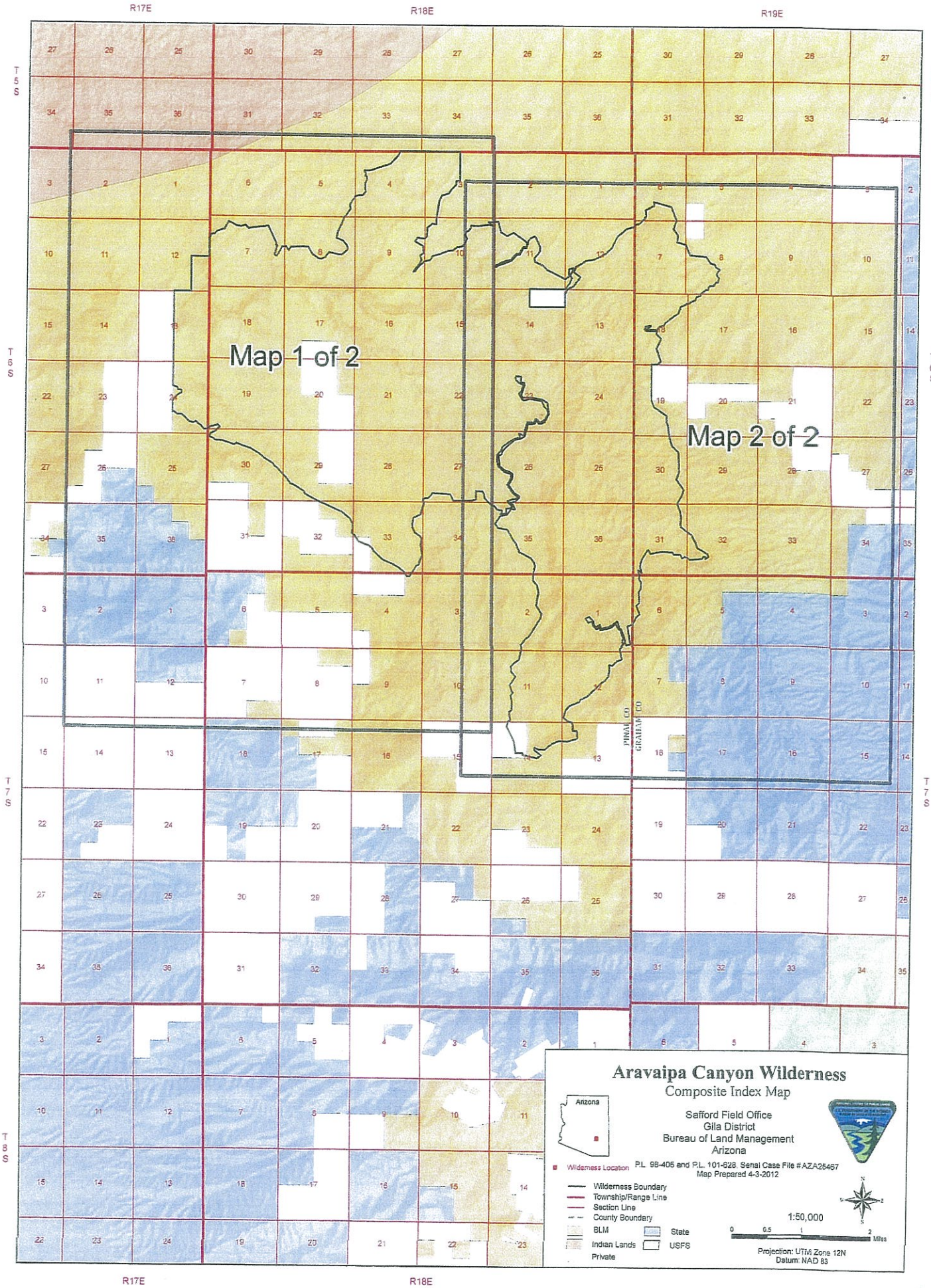
Township 6 South, Range 17 East	Book 5730
Township 6 South, Range 18 East	Book 5746 and 5936
Township 6 South, Range 19 East	Book 5655
Township 7 South, Range 18 East	Book 5656
Township 7 South, Range 19 East	Book 5657

The legal descriptive boundary of the Aravaipa Canyon Wilderness Area is a composite of field notes of the approved surveys executed in the individual townships. For detailed information regarding the history of the survey of the Wilderness Area, refer to the approved field notes of the individual townships.

Township 6 South, Range 17 East	Book 5730
Township 6 South, Range 18 East	Book 5746 and 5936
Township 6 South, Range 19 East	Book 5655
Township 7 South, Range 18 East	Book 5656
Township 7 South, Range 19 East	Book 5657


R17E
R18E
T 6 S
T 7 S
Lat. 32° 55' 32.63"N
Long. 110° 33' 25.09"W
Aravaipa Canyon Wilderness
Map 1 of 2
Safford Field Office
Gila District
Bureau of Land Management
Arizona
P.L. 98-406 and P.L.101-628, Serial Case File #AZA 25467
Map prepared 4-3-2012
Arizona
Wilderness Location
Wilderness Boundary
Township/Range Line
Section Line
BLM
State
Indian Lands
Private
1:24,000
0 0.25 0.5 1 Miles
Projection: UTM Zone 12N
Datum: NAD 83
The US Geological Survey 7.5-minute series maps are used as the base for this map. These base maps may indicate roads or jeep trails inside the wilderness boundaries. Any such roads or jeep trails were closed to vehicle use by the designation of the area as wilderness, according to the Wilderness Act of 1964, unless use is otherwise specifically provided by legislation.


R18E
R19E
T 6 S
T 7 S
The US Geological Survey 7.5-minute series maps are used as the base for this map. These base maps may indicate roads or jeep trails inside the wilderness boundaries. Any such roads or jeep trails were closed to vehicle use by the designation of the area as wilderness according to the Wilderness Act of 1964, unless use is otherwise specifically provided by legislation.
Lat. 32° 52' 13.45"N
Long. 110° 26' 8.05"W
Aravaipa Canyon Wilderness
Map 2 of 2
Safford Field Office
Gila District
Bureau of Land Management
Arizona
Arizona
Wilderness Location
P.L. 98-406 and P.L. 101-628, Serial Case File # AZA25467
Map Prepared 4-3-2012
Wilderness Boundary
Township/Range Line
Section Line
County Boundary
BLM
State
Private
1:24,000
0 0.25 0.5 1 Miles
Projection: UTM Zone 12N
Datum: NAD 83


R17E
R18E
R19E
T 5 S
T 6 S
T 7 S
T 8 S
Map 1 of 2
Map 2 of 2
PINAL CO
GRAHAM CO
Aravaipa Canyon Wilderness
Composite Index Map
Arizona
Safford Field Office
Gila District
Bureau of Land Management
Arizona
Wilderness Location
P.L. 98-406 and P.L. 101-628. Serial Case File # AZA25467
Map Prepared 4-3-2012
Wilderness Boundary
Township/Range Line
Section Line
County Boundary
BLM
State
Indian Lands
USFS
Private
1:50,000
0 0.5 1 2 Miles
Projection: UTM Zone 12N
Datum: NAD 83