

ORIGINAL

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF
A PORTION OF
THE ARIZONA-UTAH STATE BOUNDARY (NORTH BOUNDARY)
FROM THE 82 MILE POST TO THE 85 MILE POST,
A PORTION OF THE SOUTH BOUNDARY,
THE WEST BOUNDARY,
AND A PORTION OF THE SUBDIVISIONAL LINES
FRACTIONAL TOWNSHIP 42 NORTH, RANGE 2 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Geoffrey A. Graham, Cadastral Surveyor

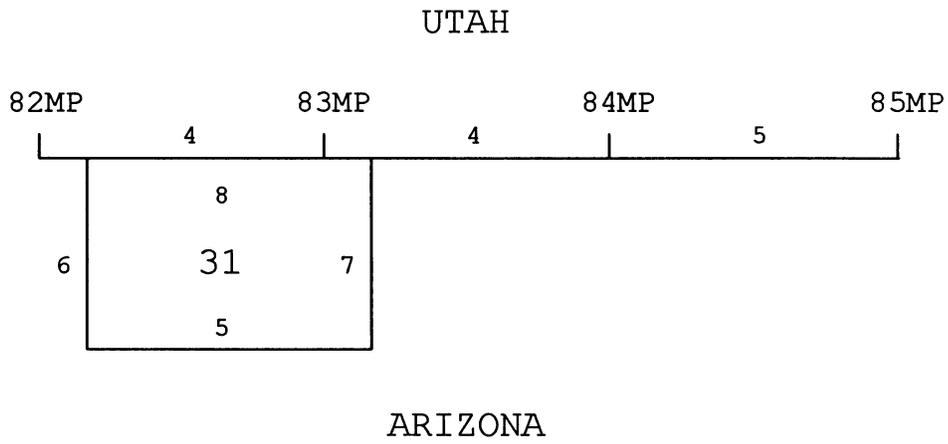
Under Special Instructions dated June 5, 2003, approved June 5, 2003, which provided for the surveys included under Group No. 905, and assignment instructions dated June 5, 2003.

Survey commenced June 17, 2003

Survey completed June 19, 2003

INDEX DIAGRAM

FRACTIONAL TOWNSHIP 42 NORTH, RANGE 2 WEST
GILA AND SALT RIVER MERIDIAN, ARIZONA



T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the Arizona-Utah State Boundary (north boundary) from the 82 mile post to the 85 mile post, a portion of the south boundary, the west boundary and a portion of the subdivisional lines, Fractional Township 42 North, Range 2 West, Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this survey is as follows:

Howard B. Carpenter surveyed the boundary between the state of Utah and the territory of Arizona in 1901. In 1911 Andrew Nelson and Walter A. Stumm surveyed the south boundary. In 1912, R. Gentry retraced a portion of the Arizona-Utah State Line in connection with the resurvey of Township 44 South, Range 6 West, Salt Lake Base and Meridian, Utah. In 1926 Benjamin J. Kinsey surveyed the east and west boundaries and the subdivisional lines.

The 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 June 5, 2003, for Group No. 905, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 4400 model receivers.

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

Geodetic control was derived from Global Positioning System (GPS) static post observations processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) FRED FREDONIA CORS ARP, FERN FERNO MESA CORS ARP, FST1 FLAGSTAFF 1 CORS ARP. The NAD 83 (CORS96)(EPOCH:2002), geographic position of the corner of sections 5, 6, 31 and 32, Tps. 41 and 42 N., R. 2 W., is as follows:

Latitude: 36°59'25.57" N. Longitude: 112°32'25.96" W.

The mean magnetic declination is 12 3/4° E.

**Dependent Resurvey of a Portion of the Arizona-Utah State Boundary,
(North Boundary) From the 82 Mile Post to the 85 Mile Post,
T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Restoring the survey executed by Howard B. Carpenter, in 1901 and Retracement by R. Gentry, in 1912</p> <hr/>
	<p>Beginning at the 82 mile post on the Arizona-Utah State Bdy., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 20 ins. above ground, with brass cap mkd. with raised letters UTAH on N., ARIZ. on S., and 82M stamped in center.</p> <p>Add the marks 2003 to the brass cap.</p> <p>Mile post is located in a fence bearing E. and W., with a well used dirt road on the N. side and a small track road to the S.</p> <p>N. 89°48' E., along the 83rd mile bet. the States of Arizona and Utah.</p>
13.73	The closing cor. of Tps. 42 N., Rs. 2 and 3 W., hereinafter described.
22.25	The closing cor. of secs. 7 and 8, T. 44 S., R. 6 W., Salt Lake Meridian, Utah, bears North, 1 lk. dist., monumented with an iron post, 2 ins. diam., firmly set, 13 ins. below ground, with brass cap mkd. U T44S R6W S7 S8 CC A 1912.
53.21	The point for the 1/4 sec. cor. of sec. 31 only, T. 42 N., R. 2 W., hereinafter described.
79.93	83 mile post, on Arizona-Utah State Bdy., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 22 ins. above ground, with brass cap mkd. with raised letters UTAH on N., ARIZ. on S., and 83M BM 4827.32 stamped in center. <p>Add the marks 2003 to the brass cap.</p> <p>Mile post is located in fence bearing E. and W., S. of a track road on the southern side of the Kanab sewage ponds.</p> <hr/> <p>N. 89°54' E., along the 84th mile bet. the States of Arizona and Utah.</p>
13.28	Point for the closing cor. of secs. 31 and 32, T. 42 N., R. 2 W., hereinafter described.
80.09	84 mile post, on Arizona-Utah State Bdy., established by Lanny Talbot, Utah Registered Land Surveyor No. 165634, monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 2 ins. above ground, with aluminum cap mkd. UT MP84 AZ 2000 RPLS 165634. This position is accepted as a careful and faithful reestablishment of the mile post.

**Dependent Resurvey of a Portion of the Arizona-Utah State Boundary,
(North Boundary) From the 82 Mile Post to the 85 Mile Post,
T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Mile post is located 10 lks. N. of fence bearing E. and W., on the southern side of active gravel pits.</p> <hr/>
	<p>N. 89°51' E., along the 85th mile bet. the States of Arizona and Utah.</p>
80.01	<p>85 mile post, on Arizona-Utah State Bdy., monumented with a conglomerate stone, 10 x 6 ins., firmly set, 8 ins. below ground, mkd. with an X on top.</p> <p>Position to be remonumented by concurrent Utah Bureau of Land Management Cadastral Survey.</p> <p>Mile post is located on southern grade slope of graded gravel road, and 5 lks. N. of fence, both of which bear E. and W.</p> <hr/> <p align="center">Dependent Resurvey of a Portion of the South Boundary, T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona</p> <hr/> <p align="center">Restoring the survey executed by Andrew Nelson and Walter A. Stumm, in 1911</p> <hr/> <p>From the cor. of secs. 5, 6, 31 and 32, Tps. 41 and 42 N., R. 2 W., monumented with a galvanized iron post, 3 ins. diam., firmly set, projecting 18 ins. above ground, with brass cap mkd. T42N R2W S31 S32 S6 S5 T41N R2W 1911.</p> <p>Add the marks 2003 to the brass cap.</p> <p>S. 89°58' W., on the S. bdy. of the Tp.</p>
10.20	<p>Left cut bank of Kanab Creek, 20 ft. high.</p>
18.80	<p>Right cut bank of Kanab Creek.</p>
40.06	<p>The 1/4 sec. cor. of secs. 6 and 31, Tps. 41 and 42 N., R. 2 W., monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above ground, with brass cap mkd. 1/4 S31 S6 1911.</p> <p>Add the marks T42N R2W T41N 2003 to the brass cap.</p> <p>Cor. is located in a fence bearing E. and W.</p> <hr/>
	<p>S. 89°56' W., beginning new measurement.</p>

**Dependent Resurvey of a Portion of the South Boundary,
T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona**

CHAINS	
39.46	<p>The cor. of Tps. 41 and 42 N., Rs. 2 and 3 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 15 ins. above ground, with brass cap mkd. T42N R3W R2W S36 S31 S1 S6 R3W R2W T41N 1911.</p> <p>Add the marks 2003 to the brass cap.</p> <p>Cor. is located in cor. of fences extending N., E. and S.; 18 lks. S. of a track road bearing N. 54° E. and S. 54° W., and 24 lks. E. of another track road bearing N. and S.</p>
	<hr/> <p align="center">Dependent Resurvey of the West Boundary, T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona</p> <hr/>
	<p align="center">Restoring the survey executed by Benjamin J. Kinsey, in 1926</p> <hr/>
	<p>From the cor. of Tps. 41 and 42 N., Rs. 2 and 3 W.</p> <p>N. 0°05' E., along the W. bdy. of the Tp.</p>
40.05	<p>The 1/4 sec. cor. of secs. 31 and 36, T. 42 N., Rs. 2 and 3 W., monumented with a galvanized iron post, 1 in. diam., firmly set, projecting 7 ins. above ground, with brass cap mkd. 1/4 S36 S31 1926, from which the original bearing trees</p> <p>A juniper, 11 ins. diam., bears N. 72 1/2° E., 2.58 chs. dist., with scribe marks 1/4 S31 BT visible on partially healed blaze.</p> <p>A juniper, 15 ins. diam., bears N. 20° W., 3.21 chs. dist., with scribe marks 1/4 S36 BT visible on partially healed blaze.</p> <p>Add the marks T42N R3W R2W 2003 to the brass cap.</p> <p>Cor. is located 10 lks. E. of fence bearing N. and S.</p>
	<hr/> <p>N. 0°05' W., beginning new measurement.</p>
16.74	<p>The closing cor. of Tps. 42 N., Rs. 2 and 3 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 11 ins. above ground, with brass cap mkd. UTAH S36 S31 CC R3W R2W T42N 1926, from which the original bearing trees</p> <p>A juniper, 17 ins. diam., bears S. 34° E., 4.26 chs. dist., with scribe marks 42NR2WS31CCBT visible on partially healed blaze.</p>

**Dependent Resurvey of the West Boundary,
T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>A juniper, 10 ins. diam., bears S. 44° W., 1.10 chs. dist., with scribe marks T42NR3WS36CCBT visible on partially healed blaze.</p> <p>From this cor., the 82 mile post, on the Arizona-Utah State Bdy. bears S. 89°48' W., 13.73 chs. dist., hereinbefore described.</p> <p>Add the marks 2003 to the brass cap.</p> <p>Cor. is located bet. two fences bearing E. and W.; and 15 lks. W. of cor. of fences extending S. and W.</p> <hr/> <p align="center">Dependent Resurvey of a Portion of the Subdivisional Lines, T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona</p> <hr/> <p align="center">Restoring the survey executed by Benjamin J. Kinsey, in 1926</p> <hr/> <p>From the cor. of secs. 5, 6, 31 and 32, on the S. Bdy. of the Tp.</p> <p>N. 0°02' E., bet. secs. 31 and 32.</p> <p>31.50 Left cut bank of Kanab Creek, 20 ft. high.</p> <p>40.05 The 1/4 sec. cor. of secs. 31 and 32, monumented with an iron post, 1 in. diam., firmly set, 8 ins. below ground, with brass cap mkd. 1/4 S31 S32 1926.</p> <p>Add the marks T42N R2W 2003 to the brass cap.</p> <p>Cor. is located in bottom of Kanab Creek plain, at the current water table height and appears to be impermanent.</p> <p>from which</p> <p>A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 24 ins. in the ground for a reference monument, bears N. 84°46' W., 218.7 ft. dist. with brass cap mkd. RM T42N R2W 1/4 S31 218.7 FT TO COR 2003 and an arrow pointing to the corner. Located on top right cut bank of Kanab Creek.</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>
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**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona**

CHAINS

A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 25 ins. in the ground for a reference monument, bears N. 19°09' W., 158.9 ft. dist. with brass cap mkd. RM T42N R2W S31 1/4 158.9 FT TO COR and an arrow pointing to the corner. Located on top right bank of Kanab Creek.

Deposit a magnet in a white plastic case at the base of the stainless steel post.

North, beginning new measurement, generally following the right cut bank of Kanab Creek, 20 ft. high.

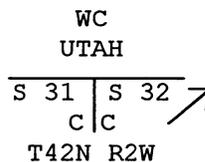
16.91

Point for the closing cor. of secs. 31 and 32; at proportionate distance there is no remaining evidence of the original corner. Point falls on steep right bank of Kanab Creek, impracticable to monument.

From this point, the 83 mile post, on the Arizona-Utah State Bdy. bears S. 89°54' W., 13.28 chs. dist., hereinbefore described.

From this same point, the point selected for the witness cor. to the closing cor. of secs. 31 and 32, bears S. 45°19' W., 2.01 chs. dist.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, with brass cap mkd.



2003

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

The point for the 1/4 sec. cor. of sec. 31 only, T. 42 N., R. 2 W., is at proportionate distance on the N. bdy. of sec. 31 and on the Arizona-Utah State Bdy.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona**

CHAINS

 UTAH

1/4 S 31
T 42 N R 2 W

2003

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

From this point, the 83 mile post, on the Arizona-Utah State Bdy. bears N. 89°48' E., 26.72 chs. dist., hereinbefore described.

Cor. is located 1 lk. S. of fence bearing E. and W., 33 lks. N. of old track road and 30 lks. S. of well used dirt road.

GENERAL DESCRIPTION

This survey is of a fractional section in a partial township closing into the Arizona-Utah state boundary. Access is a blacktop road off State Highway 389 through the Kaibab Band of Paiute Indian community of Six Mile Village. Past the village a series of track roads provides access to the W. boundary and diagonally through the section. Due to the dense sage brush off road travel is limited. There are no active human dwellings within the survey. There are archeological remains in the northwest and central south portions of the section.

The western portion of this section is rolling hills, the rest is nearly level terrain. Mean elevation for the area is 4800 ft. The hills are sparsely covered in juniper and pinyon pine while the entire section is covered in various sages and grasses typical to the Great Basin Desertscrub biotic community. Kanab Creek which flows through the east and south boundaries, hosts a dense thicket of scrub willow, with very few salt cedar. The only agriculture in the section is in the bottom and on the east side of Kanab Creek, about 69 1/2 acres, primarily for grazing.

The mean magnetic declination of 12 3/4° E. was derived from the National Geophysical Data Center's magnetic declination calculator, GEOMAG v4.0, utilizing the International Geomagnetic Reference Field model for years 2000 through 2005, for the dates of survey.

CERTIFICATE OF SURVEY

I, Geoffrey A. Graham, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 5th day of June, 2003, I have dependently resurveyed a portion of the Arizona-Utah state boundary (north boundary) from the 82 mile post to the 85 mile post, a portion of the south boundary, the west boundary, and a portion of the subdivisional lines, Fractional T. 42 N., R. 2 W., of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction. 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.

10/6/2004
(Date)

Geoffrey A. Graham
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the Arizona-Utah state boundary (north boundary) from the 82 mile post to the 85 mile post, a portion of the south boundary, the west boundary, and a portion of the subdivisional lines, Fractional T. 42 N., R. 2 W., Gila and Salt River Meridian, in the State of Arizona, executed by Geoffrey A. Graham, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

3/14/2005
(Date)

Stephen K. Hansen
Acting (Chief Cadastral Surveyor of Arizona)

CERTIFICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of the field notes of the above described surveys in Fractional T. 42 N., R. 2 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

(Date)

(Chief Cadastral Surveyor of Arizona)