

ORIGINAL

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

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF
THE ARIZONA AND UTAH STATE BOUNDARY (NORTH BOUNDARY)
FROM THE 67 MILE POST TO THE 70 MILE POST
AND A PORTION OF THE SUBDIVISIONAL LINES,
AND THE SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES
FRACTIONAL TOWNSHIP 42 NORTH, RANGE 5 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA

EXECUTED BY

W. William Foster, Cadastral Surveyor

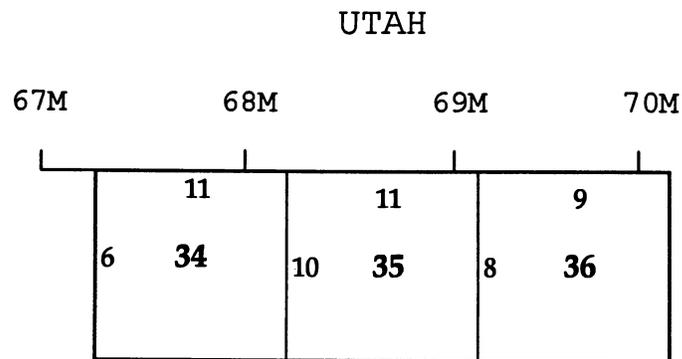
Under Special Instructions dated May 5, 2005, approved May 5, 2005, which provided for the surveys included under Group No. 961, and assignment instructions dated May 5, 2005.

Survey commenced May 16, 2005

Survey completed July 15, 2005

INDEX DIAGRAM

FRACTIONAL TOWNSHIP 42 NORTH RANGE 5 WEST
GILA AND SALT RIVER MERIDIAN, ARIZONA



ARIZONA

Dep. Res. of the Arizona and Utah State Line
from the 67 Mile post to the 70 Mile Post..... Pages 4-6

T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the Arizona and Utah State Boundary (north boundary), from the 67 mile post to the 70 mile post, and a portion of the subdivisional lines, and the survey of a portion of the subdivisional lines, Fractional Township 42 North, Range 5 West, Gila and Salt River Meridian, Arizona.

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

Howard B. Carpenter surveyed a portion of the boundary between the state of Utah and the then territory of Arizona, in 1901. S. P. Stewart and Frank C. French retraced a portion of the boundary between the state of Utah and the then territory of Arizona, in 1909. W.E. Heister surveyed a portion of the south boundary, in 1925. Paul G. Bauer resurveyed a portion of the boundary between the states of Arizona and Utah and surveyed a portion of the subdivisional lines, in 1971. Geoffrey A. Graham, Cadastral Surveyor, resurveyed a portion of the boundary between the states of Arizona and Utah and surveyed the east boundary, in 2004, under group number 938, Arizona. W. William Foster, Cadastral Surveyor, surveyed a portion of the south boundary in 2005, under group number 960, Arizona.

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 May 5, 2005, for Group No. 961, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 5700 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 observations post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) "ECHO CANYON S.P. CORS ARP", "FREDONIA CORS ARP", "FERNO MESA CORS ARP". The NAD 83 (1996), geographic position of the southeast township corner, is as follows:

Latitude: 36°59'25.17" N. Longitude: 112°46'30.52" W.

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

**Dependent Resurvey of a Portion of the Arizona and Utah State Boundary
(North Boundary), From the 67 Mile Post to the 70 Mile Post,
T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Restoring the survey executed by Howard B. Carpenter, in 1901, and the resurvey executed by Geoffery A. Graham, in 2004</p> <hr/> <p>Beginning at mile post 67 on the bdy. bet. the states of Arizona and Utah, monumented with an X on a sandstone shelf. The word UTAH is severely diminished with other illegible markings.</p> <p>An accessory mound of stone, 3 ft. base, 1 ft high, is located E. of the cor.</p> <p>At the corner point</p> <p>Set a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole, in solid rock, with top mkd.</p> <p style="text-align: center;"> UTAH M 67 ——— ARIZONA 2005 </p> <p>Deposit a magnet at the base of the brass rock tablet.</p> <p>Rebuild the accessory mound of stone, 3 1/2 ft base, 2 ft. high, E. of the cor.</p> <p>S. 89°58' E., on the 68th mile bet. the states of Arizona and Utah.</p> <p>Over mountainous land, through juniper, piñon, sage cacti and native grasses.</p>
18.30	Point for the closing cor. of secs. 33 and 34, T. 42 N., R. 5 W., hereinafter described.
28.51	<p>From this point, the closing cor. for secs. 10 and 11, T. 44 S., R. 9 W., Salt Lake Base and Meridian, monumented with an iron post, 2 ins. diam., firmly set, projecting 16 ins. above the ground, with brass cap mkd. U T44S R9W S10 S11 A CC 1909, bears North, 6.3 lks. dist.</p> <p>from which</p> <p style="padding-left: 40px;">A forked piñon pine, 11 ins. diam., bears N. 22 1/2° W., 53 lks. dist., with scribe marks T44SR9W S10 BT visible on partially healed blaze. (Record: 16 ins. diam.)</p>

Dependent Resurvey of a Portion of the Arizona and Utah State Boundary
(North Boundary), From the 67 Mile Post to the 70 Mile Post,
T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona

<p>CHAINS</p>	<p>84.77 Mile Post 68 on the bdy. bet. Arizona and Utah, monumented with a sandstone, 19 X 15 X 4 ins., lying loose with U marked on a face. Lower half of sandstone, 16 X 16 X 4 ins., firmly set, 7 ins. below the ground with no other marks visible.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">UTAH 68 M ——— ARIZONA</p> <p style="text-align: center;">2005</p> <p>from which</p> <p style="padding-left: 40px;">A juniper, 17 ins. diam., bears S. 31 1/2° E., 86 lks. dist., with scribe marks 68M BT visible on partially healed blaze.</p> <p style="padding-left: 40px;">A juniper, 23 ins. diam., bears S. 56 3/4° W., 71 lks. dist., with a healed blaze. (Record: S. 55° 10' W.)</p> <p style="padding-left: 40px;">A juniper, 15 ins. diam., bears N. 42 1/4° W., 87 lks. dist., with a healed blaze. (Record: 85 lks. dist.)</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post and bury the 2 halves of the sandstone E. and alongside of the stainless steel post.</p> <hr/> <p>S. 89°58' E., on the 69th mile bet. the states of Arizona and Utah.</p> <p>Over rolling land, through juniper, piñon, oak brush, sage, manzanita, cacti and Mormon tea.</p> <p>22.57 From this point, the witness cor. for the closing cor. of secs. 11 and 12, T. 44 S., R. 9 W., Salt Lake Base and Meridian, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. U T44S R9W S11 S12 A CC 1909, bears North, 6.5 lks. dist.</p> <p>78.61 Mile post 69 on the bdy. bet. the states of Arizona and Utah, monumented with an iron post, 2 ins. diam, firmly set, projecting 21 ins. above the ground, with brass cap mkd. UTAH (upside down) ARIZ.</p>
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**Dependent Resurvey of a Portion of the Arizona and Utah State Boundary
(North Boundary), From the 67 Mile Post to the 70 Mile Post,
T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>from which</p> <p style="padding-left: 40px;">A piñon pine, 10 ins. diam., bears S. 66 1/2° E., 15.5 lks. dist., with scribe marks ARIZ 69M BT visible on partially healed blaze. (Record: S. 65 3/4° E., 17 lks. dist.)</p> <p style="padding-left: 40px;">The NW bearing tree, a piñon pine, found dead and down, severly decayed, with scribe marks UTAH 69M BT visible on weathered blaze. Unable to determine original position.</p> <hr/> <p>N. 89°59' E., on the 70th mile bet. the states of Arizona and Utah.</p> <p>Over rolling sand hills, gradually ascending, through piñon, scrub oak and juniper.</p>
25.06	<p>From this point, the closing cor. of secs. 7 and 12, T. 44 S., Rs. 8 and 9 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 17 ins. above the ground, with brass cap mkd. U T44S R9W R8W S12 S7 A 1909, bears North, 3.6 lks dist.</p> <p>Cor. is located in a 5 strand barbed wire fence, bears E. and W.</p>
80.45	<p>Mile post 70 on the bdy. bet. Arizona and Utah, monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 3 ins. above the ground, with brass cap mkd. UTAH M70 ARIZONA 2004.</p> <p>Add the marks 2005 to the brass cap.</p> <p>Cor. is located in a fence extending E. and W.</p> <hr/> <p style="text-align: center;">Dependent Resurvey of a Portion of the Subdivisional Lines, T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona</p> <hr/> <p style="text-align: center;">Restoring the survey executed by Paul G. Bauer, in 1971</p> <hr/> <p>From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set, 9 ins. below the ground, with brass cap mkd. T42NR5W S33 S34 S4 S3 T41N 1925 2005.</p> <p>Cor. is located 9 ins. below the east track of sandy trail, 12 ft. wide, bears N. and S.</p> <p>N. 0°01' W., bet secs. 33 and 34.</p>

**Resurvey of a Portion of the Subdivisional Lines,
T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona**

CHAINS											
	<p>Over level to rolling land, through scattered juniper and piñon pine, sage brush and native grasses.</p> <p>39.96 The 1/4 sec. cor. of secs. 33 and 34, monumented with a iron post, 2 1/2 ins. diam., firmly set, projecting 11 ins. above the ground, in a scattered mound of stone, 1 1/2 ft. base, 1 ft. high, with brass cap marked T42N R5W 1/4 S33 S34 1971, with an accessory mound of stone, 1 1/2 ft. base, 1 ft. high, W. of cor.</p> <p>from which</p> <p style="padding-left: 40px;">A dead and standing piñon pine, 12 ins. diam., bears N. 55 1/2° E., 30 lks. dist., with scribe marks T42NR5W 1/4 S34 BT visible on an open blaze. (Record: N. 59° E.)</p> <p style="padding-left: 40px;">A piñon pine, 6 ins. diam., bears S. 64° W., 64 1/2 lks. dist., with scribe marks T42NR5W 1/4 S33 BT visible on an open blaze. (Record: S. 74° W.)</p> <p>Add the marks 2005 to the brass cap.</p> <p>Destroy accessory mound of stone and rebuild supporting mound of stone, 3 1/2 ft. base, to top of post.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°01' W., beginning new measurement.</p> <p>Over level to rolling land, through scattered juniper and piñon pine, sage brush and native grasses.</p>										
15.69	<p>Intersect the bdy. bet. the states of Arizona and Utah. Point for the closing cor. of secs. 33 and 34.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <table border="0"> <tr><td colspan="2">UTAH</td></tr> <tr><td colspan="2"><hr style="width: 100%;"/></td></tr> <tr><td>S 33</td><td> S 34</td></tr> <tr><td colspan="2">T 42 N R 5 W</td></tr> <tr><td colspan="2">C C</td></tr> </table> <p>2005</p> </div> <p>from which the 1971 original bearing tree</p> <p style="padding-left: 40px;">A juniper, 9 ins. diam., bears S. 52° W., 34 lks. dist., with scribe marks T42N R5W S33 CC BT visible on partially healed blaze. (Record: Cedar, from the 1971 CC position of secs. 33 and 34 is S. 39 3/4° W., 42 1/2 lks. dist).</p>	UTAH		<hr style="width: 100%;"/>		S 33	S 34	T 42 N R 5 W		C C	
UTAH											
<hr style="width: 100%;"/>											
S 33	S 34										
T 42 N R 5 W											
C C											

**Resurvey of a Portion of the Subdivisional Lines,
T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>and from which a bearing tree of unknown origin</p> <p style="padding-left: 40px;">A juniper, 17 ins. diam., bears S. 19° E., 56 lks. dist., with scribe marks T42N R5W S34 CC BT visible on partially healed blaze.</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>From this closing cor., the original closing cor., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 10 ins. above the ground, with brass cap mkd. UTAH S33 S34 T42N R5W CC 1971, bears N. 0°01' W., 12 lks. dist. Stamp AM on the iron post and bury inverted in place, 5 ins. below the ground.</p> <p>From this closing cor., mile post 67 on the Arizona and Utah state bdy., hereinbefore described, bears N. 89°58' W., 18.30 chs. dist.</p> <hr/> <p style="text-align: center;">Survey of the Subdivisional Lines, T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona</p> <hr/> <p>From the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of T. 41 N., R. 5 W., monumented with a stainless steel post, firmly set, projecting 4 ins. above the ground, with brass cap mkd. T42NR5W S35 S36 S2 S1 T41N 2005.</p> <p>N. 0°01' W., bet secs. 35 and 36.</p> <p>Over rolling land, through juniper, piñon, sage, cacti and native grasses.</p> <p>40.00 Point for the 1/4 sec. cor. of secs. 35 and 36.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T 42 N R 5 W 1/4 S 35 S 36 2005</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>55.62 Intersect the bdy. bet. the states of Arizona and Utah. Point for the closing cor. of secs. 35 and 36.</p>
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Survey of a Portion of the Subdivisional Lines,
T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona

CHAINS

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

UTAH

S 35	S 36
T 42 N R 5 W	
C C	

2005

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

Cor. is located 6 lks. N. of a dilapidated fence, bears E. and
W.

From this closing cor., mile post 69 on the Arizona and Utah
state bdy., hereinbefore described, bears S. 89°59' W.,
15.16 chs. dist.

Land, rolling.

Vegetation, sage, oak brush, manzanita, Mormon tea, cacti,
juniper and piñon.

Soil, sandy.

Point for the 1/4 sec. cor. of sec. 36 only, T. 42 N., R. 5 W.,
at midpoint on the N. bdy. of sec. 36, on the Arizona and Utah
state bdy.

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

UTAH

1/4 S 36
T 42 N R 5 W

2005

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

Cor. is located 4 lks. N. of 5 strand barbed wire fence, bears
E. and W. and on the S. edge of an ATV trail, 5 ft. wide, bears
E. and W.

From this point, mile post 70 on the Arizona and Utah state
bdy., hereinbefore described, bears N. 89°59' E., 25.29 chs.
dist.

**Survey of a Portion of the Subdivisional Lines,
T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>From the cor. of secs. 2, 3, 34 and 35, on the N. bdy. of T. 41 N., R. 5 W. monumented with a brass tablet, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole in solid rock, with top mkd., T42N R5W S34 S35 S3 S2 T41N 2005.</p> <p>N. 0°01' W., bet. secs. 34 and 35.</p> <p>Over mountainous land, through juniper, piñon, sage yucca and cacti.</p>
40.00	<p>Point for the 1/4 sec. cor. of secs. 34 and 35.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T 42 N R 5 W 1/4 S 34 S 35 2005</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p>
55.62	<p>Intersect the bdy. bet. the states of Arizona and Utah. Point for the closing cor. of secs. 34 and 35.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">UTAH ----- S 34 S 35 T 42 N R 5 W C C 2005</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>From this closing cor., mile post 68 on the Arizona and Utah state bdy., hereinbefore described, bears N. 89°58' W., 13.77 chs. dist.</p> <p>Land, rolling. Vegetation, sage, oak brush, manzanita, Mormon tea, cacti, juniper and piñon. Soil, sandy.</p> <hr style="width: 60%; margin-left: 0;"/>

Survey of a Portion of the Subdivisional Lines,
T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona

<p>CHAINS</p>	<p>Point for the 1/4 sec. cor. of sec. 35 only, T. 42 N., R. 5 W., at midpoint on the N. bdy. of sec. 35, on the Arizona and Utah state bdy.</p> <p>Set a brass tablet, in a sandstone outcrop, 3 1/4 ins. diam., 3 1/2 ins. stem, cemented in a drill hole in solid rock, with top mkd.</p> <p style="text-align: center;">UTAH</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">1/4 S 35 T 42 N R 5 W</p> <p style="text-align: center;">2005</p> <p>Deposit a magnet at the base of the rock tablet.</p> <p>Raise an accessory mound of stone, 2 ft. base, 1 1/2 ft. high, S. of the cor.</p> <p>From this point, mile post 69 on the Arizona and Utah state bdy., hereinbefore described, bears S. 89°58' E., 24.84 chs. dist.</p> <hr/> <p>Point for the 1/4 sec. cor. of sec. 34 only, T. 42 N., R. 5 W., at midpoint on the N. bdy. of sec. 34, on the Arizona and Utah state bdy.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">UTAH</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">1/4 S 34 T 42 N R 5 W</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>From this point, mile post 68 on the Arizona and Utah state bdy., hereinbefore described, bears S. 89°58' E., 26.35 chs. dist.</p> <hr/>
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Survey of a Portion of the Subdivisional Lines,
T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona

CHAINS

GENERAL DESCRIPTION

Township 41 North, Range 5 West is located on the Kaibab Paiute Reservation and is approximately 15 miles northwest of Fredonia. The elevation varies from 5300 to 6200 ft. above sea level. The area is used mostly for grazing, with no indication of any mineral activity. The terrain is rolling to mountainous. Timber consists of juniper and piñon pine. Undergrowth is sage, manzanita, yucca, Mormon tea, cacti and native grasses.

The main access to the area is Arizona State Highway 389. There are trail roads throughout the township.

The mean magnetic declination of $12\ 1/2^\circ$ E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2000 for the dates of survey.

CERTIFICATE OF SURVEY

I, W. William Foster, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 5th day of May, 2005, I have dependently resurveyed a portion of the Arizona and Utah state boundary, (north boundary), from the 67 mile post to the 70 mile post, and a portion of the subdivisional lines and surveyed a portion of the subdivisional lines, Fractional T. 42 N., R. 5 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 Survey Instructions for the Survey of the Public Lands of the United States, 1973, and in specific manner described in the foregoing field notes.

5/01/06
(Date)

W. William Foster
(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 and Utah state boundary (north boundary), from the 67 mile post to the 70 mile post and a portion of the subdivisional lines and the survey of a portion of the subdivisional lines, Fractional T. 42 N., R. 5 W., Gila and Salt River Meridian, in the State of Arizona, executed by W. William Foster, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

5/10/2006
(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 Fractional T. 42 N., R. 5 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____~~
~~(Date)~~

~~_____~~
~~(Chief Cadastral Surveyor of Arizona)~~