

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF
PORTIONS OF
HES 481
AND PORTIONS OF
TRACT 37
UNSURVEYED TOWNSHIP 4 1/2 NORTH, RANGE 29 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Christopher P. McDonald, Cadastral Surveyor

Under Special Instructions dated August 24, 2012, approved August 24, 2012, which provided for the surveys included under Group No. 1108, and assignment instructions dated August 24, 2012.

Survey commenced August 27, 2012

Survey completed September 4, 2012

INDEX DIAGRAM

UNSURVEYED TOWNSHIP 4 1/2 NORTH RANGE 29 EAST
GILA AND SALT RIVER MERIDIAN, ARIZONA

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Dependent resurvey of portions of HES 481
and portions of Tract 37Pages 4-9

Unsurveyed T. 4 1/2 N., R. 29 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of portions of HES 481 and portions of Tract 37, Unsurveyed Township 4 1/2 North, Range 29 East, Gila and Salt River Meridian, Arizona.

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

In 1916, R. P. A. Johnson surveyed the exterior boundaries of HES 481. In 1989, William P. Carpender dependently resurveyed a portion of HES 481 and surveyed Tract 37.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and the Special Instructions dated August 24, 2012, for Group Number 1108, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation R8 and 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) AZGB Gila County CORS, P015 DUECECLUBSAZ2005 CORS, and AZSF Safford CORS. The NAD 83 (CORS96) (EPOCH: 2002), geographic position of the following two corners.

The geographic position of Corner Number 1, HES 481, Unsurveyed Township 4 1/2 North, Range 29 East, is as follows:

Latitude: 33°44'27.40" N. Longitude: 109°19'47.61" W.

The geographic position of Corner Number 3, HES 481, Unsurveyed Township 4 1/2 North, Range 29 East, is as follows:

Latitude: 33°44'11.97" N. Longitude: 109°19'15.80" W.

The mean magnetic declination is 10° E.

Dependent Resurvey of Portions of HES 481 and Portions of Tract 37,
Unsurveyed T. 4 1/2 N., R. 29 E., Gila and Salt River Meridian, Arizona

CHAINS

Restoring the survey executed by
R. P. A. Johnson, in 1916, and restoring the
survey executed by William P. Carpender, in 1989.

Beginning at Cor. No. 1, HES 481, monumented with a threaded, galvanized iron water pipe, 2 1/2 ins. diam., firmly set, projecting 14 ins. above the ground, encircled in a scattered collar of stone, with an iron plumber's cap attached, mkd. USDAFS T4 1/2N R29E 1 HES481 LS4476 1966, perpetuated by Charles C. Doak LS 4476, as per information on file in the office of the Forest Land Surveyor, Apache-Sitgreaves National Forest, Springerville, Arizona.

from which the original bearing trees

A ponderosa pine, 23 ins. diam., bears N. 35° E., 38 lks. dist., with scribe marks 1 HES 481 X BT visible on partially open blaze.

A ponderosa pine, 31 ins. diam., bears S. 04° E., 51 lks. dist., with scribe marks 1 HES 481 X BT visible on partially open blaze. (Record: S. 2°50' E., 57 lks. dist.)

from which the 1966 bearing tree

A ponderosa pine, 24 ins. diam., bears S. 53° W., 67 lks. dist., with a healed blaze, (1966 record: S. 55° W.)

Add the marks 2012 to the plumbers cap.

Reconstruct collar of stone, 3 1/2 ft. base, to top, utilizing the scattered collar of stone.

A steel fence post, with F.S. signs No.s 54-2 and 54-9 attached, set alongside the cor.

S. 84°22' E., on a portion of line 1-2, HES 481.

7.84 AP 3, Tract 37, monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 10 ins. above ground, encircled in a scattered collar of stone, with brass cap mkd. T4 1/2N R29E TR37 AP3 1989.

from which the original bearing trees

A ponderosa pine, 18 ins. diam., bears N. 4 3/4° E., 51 lks. dist., with a healed blaze.

A ponderosa pine, 15 ins. diam., bears S. 59 3/4° W., 42 lks. dist., with a healed blaze.

Dependent Resurvey of Portions of HES 481 and Portions of Tract 37,
Unsurveyed T. 4 1/2 N., R. 29 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Add the marks 2012 to the brass cap.</p> <p>Reconstruct collar of stone, 3 ft. base, to top, utilizing the scattered collar of stone.</p> <p>A steel fence post, with F.S. signs No.s 54-2 and 54-9 attached, is set alongside the cor.</p> <hr/> <p>N. 05°38' E., on line 2-3, Tract 37.</p> <p>Over rolling to broken terrain.</p>
4.11	<p>AP 2, Tract 37, monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. T4 1/2N R29E AP2 TR37 1989, with a scattered mound of stone, SE of cor.</p> <p>from which the remaining original bearing tree</p> <p style="padding-left: 40px;">A fir, 12 ins. diam., bears N. 65° W., 38 lks. dist., with a healed blaze.</p> <p>from which a new bearing tree</p> <p style="padding-left: 40px;">A ponderosa pine, 11 ins. diam., bears S. 58° W., 39.5 lks. dist., mkd. X BT.</p> <p>Add the marks 2012 to the brass cap.</p> <p>Reconstructed mound of stone, 2 1/2 ft. base, 2 ft. high, SE. of cor., utilizing the scattered mound of stone.</p> <p>A steel fence post, with F.S. signs No.s 54-2 and 54-9 attached, set alongside the cor.</p> <hr/> <p>S. 84°22' E., on line 1-2, Tract 37.</p> <p>Over rolling to broken terrain.</p>
18.05	<p>AP 1, Tract 37, monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 10 ins. above ground, encircled in a scattered collar of stone, with brass cap mkd. T4 1/2N R29E AP 1 TR 37 1989.</p> <p>from which the original bearing tree</p> <p style="padding-left: 40px;">A fir, 11 ins. diam., bears N. 64 1/4° E., 19 lks. dist., with a healed blaze. (Burnt and dead)</p> <p style="padding-left: 40px;">A fir, 13 ins. diam., bears S. 58 1/4° E., 60 lks. dist., with a healed blaze. (Burnt and dead)</p>

Dependent Resurvey of Portions of HES 481 and Portions of Tract 37,
Unsurveyed T. 4 1/2 N., R. 29 E., Gila and Salt River Meridian, Arizona

CHAINS

from which new bearing tree:

A spruce, 12 ins. diam., bears N. 37° E., 31 lks. dist.,
with a healed blaze.

A ponderosa pine, 14 ins. diam., bears W., 30 lks. dist.,
mkd. X BT.

Add the marks 2012 to the brass cap.

Reconstruct collar of stone, 3 ft. base, to top, utilizing the
scattered collar of stone.

A steel fence post, with F.S. signs No.s 54-2 and 54-9 attached,
set alongside the cor.

S. 05°39' W., on line 1-4, Tract 37.

Over rolling to broken terrain.

4.11 AP 4, Tract 37, monumented with a stainless steel post,
2 1/2 ins. diam., firmly set, projecting 3 ins. above ground,
encircled in a scattered collar of stone, with brass cap mkd.
T4 1/2N R29E TR 37 AP 4 1989.

from which the remaining original bearing tree

A fir, 17 ins. diam., bears S. 53 1/2° W., 71 lks. dist.,
with a healed blaze.

from which new bearing tree:

A ponderosa pine, 16 ins. diam., bears N. 15° E., 139 lks.
dist., mkd. X BT.

From this cor., AP 3, Tract 37, bears N. 84° 22' W., 18.05 chs.
dist., identical with a portion of line 1-2, HES 481.

Add the marks 2012 to the brass cap.

A steel fence post, with F.S. signs No.s 54-2 and 54-9 attached,
set alongside the cor.

S. 84°22' E., on a portion of line 1-2, HES 481.

Dependent Resurvey of Portions of HES 481 and Portions of Tract 37,
Unsurveyed T. 4 1/2 N., R. 29 E., Gila and Salt River Meridian, Arizona

CHAINS

11.68

Cor. No. 2, HES 481, monumented with a threaded, galvanized iron water pipe, 2 1/2 ins. diam., firmly set, projecting 10 ins. above the ground, with an iron plumber's cap attached, mkd. USDAFS T4 1/2N R29E 2 HES 481 1 HES 482 LS4476 1966, with a scattered mound of stone, SW of cor., perpetuated by Charles C. Doak, LS 4476, as per information on file in the office of the Forest Land Surveyor, Apache-Sitgreaves National Forest, Springerville, Arizona. This is accepted as a careful and faithful perpetuation of the orig. cor.

from which the original bearing trees

A ponderosa pine, 24 ins. diam., bears N. 18° W., 152 lks. dist., with scribe marks with illegible marks visible on partially open blaze. (Record: 156 lks. dist..)

A ponderosa pine, 25 ins. diam., bears S. 70° W., 151 lks. dist., with a healed blaze.

A ponderosa pine, 22 ins. diam., bears N. 69° E., 213 lks. dist., with a healed blaze.

A ponderosa pine, 19 ins. diam., bears N. 37° E., 181 lks. dist., with a healed blaze.

Add the marks 2012 to the brass cap. Set original marked stone alongside of cor.

Reconstruct mound of stone, 3 ft. base, 2.5 ft. high, utilizing the scattered mound of stone.

A steel fence post, with F.S. signs No.s 54-2 and 54-9 attached, set alongside the cor.

S. 09°30' E., on line 2-3, HES 481.

Over rolling to broken terrain.

9.74

Cor. No. 3, HES 482, monumented with a threaded, galvanized iron water pipe, 2 1/2 ins. diam., firmly set, flush with the ground, with an iron plumber's cap attached, mkd. USDAFS HES 482 3 HES 481 T4 1/2N R29E LS4476 1966, perpetuated by Charles C. Doak, LS 4476, as per information on file in the office of the Forest Land Surveyor, Apache-Sitgreaves National Forest, Springerville, Arizona. This is accepted as a careful and faithful perpetuation of the orig. cor.

Add the marks 2012 to the brass cap.

A steel fence post, with F.S. sign No. 54-9 attached, set alongside the cor.

Dependent Resurvey of Portions of HES 481 and Portions of Tract 37,
Unsurveyed T. 4 1/2 N., R. 29 E., Gila and Salt River Meridian, Arizona

CHAINS	
10.24	<p>Cor. No. 4, HES 482, monumented with a threaded, galvanized iron water pipe, 2 1/2 ins. diam., firmly set, flush with the ground, with an iron plumber's cap attached, mkd. USDAFS T4 1/2N R29E HES 481 4 HES 482 LS4476 1966, perpetuated by Charles C. Doak, LS 4476, as per information on file in the office of the Forest Land Surveyor, Apache-Sitgreaves National Forest, Springerville, Arizona. This is accepted as a careful and faithful perpetuation of the orig. cor.</p> <p>Add the marks 2012 to the brass cap.</p> <p>A steel fence post, with F.S. sign No. 54-9 attached, set alongside the cor.</p>
20.22	<p>Cor. No. 3, HES 481, monumented with a threaded, galvanized iron water pipe, 2 1/2 ins. diam., firmly set, flush with the ground, with an iron plumber's cap attached, mkd. USDAFS HES 481 3 HES 482 T4 1/2N R29E LS4476 1966, with a scattered mound of stone, E. of cor., perpetuated by Charles C. Doak, LS 4476, as per information on file in the office of the Forest Land Surveyor, Apache-Sitgreaves National Forest, Springerville, Arizona. This is accepted as a careful and faithful perpetuation of the orig. cor.</p> <p>from which the 1966 bearing tree</p> <p style="padding-left: 40px;">A ponderosa pine, 21 ins. diam., bears S. 17° W., 100 lks. dist., with a healed blaze. (1966 record: S. 17° E.)</p> <p>from which new bearing tree:</p> <p style="padding-left: 40px;">A forked ponderosa pine, 22 ins. diam. taken at fork, bears S. 60° W., 112 lks. dist., mkd. X BT.</p> <p>Add the marks 2012 to the brass cap.</p> <p>Reconstruct mound of stone, 3 ft. base, 2 1/2 ft. high, utilizing the scattered mound of stone, E. of cor.</p> <p>A steel fence post, with F.S. signs No.s 54-2 and 54-9 attached, set alongside the cor.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 79°18' W., on line 3-4 HES 481.</p> <p>Over rolling to broken terrain.</p>

Dependent Resurvey of Portions of HES 481 and Portions of Tract 37,
Unsurveyed T. 4 1/2 N., R. 29 E., Gila and Salt River Meridian, Arizona

CHAINS	
41.34	<p>Cor. No. 4, HES 481, monumented with a threaded, galvanized iron water pipe, 2 1/2 ins. diam., firmly set, projecting 10 ins. above the ground, with an iron plumber's cap attached, mkd. USDAFS T4 1/2N R29E S35 HES 481 4 LS4476 1966, in a scattered collar of stone, perpetuated by Charles C. Doak, LS 4476, as per information on file in the office of the Forest Land Surveyor, Apache-Sitgreaves National Forest, Springerville, Arizona. This is accepted as a careful and faithful perpetuation of the orig. cor.</p> <p>from which the remaining original bearing tree</p> <p style="padding-left: 40px;">A ponderosa pine, 16 ins. diam., bears S. 13° E., 77 lks. dist., with scribe marks 4 HES 481 X BT visible on partially open blaze.</p> <p>from which new bearing tree:</p> <p style="padding-left: 40px;">A spruce, 10 ins. diam., bears S. 70° W., 21 lks. dist., mkd. X BT.</p> <p>Add the marks 2012 to the brass cap.</p> <p>Reconstruct collar of stone, 2 1/2 ft. base, to top, utilizing the scattered collar of stone.</p> <p>A steel fence post, with F.S. signs No.s 54-2 and 54-9 attached, set alongside the cor.</p> <hr style="width: 20%; margin: 20px auto;"/> <p>N. 0°22' W., on line 1-4 HES 481.</p> <p>Over rolling to broken terrain.</p>
15.96	<p>Cor. No. 1, HES 481 and the point of beginning.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>The land encompassed in this survey is known as Sprucedale, is located approximately 13 miles southwest of Alpine, Arizona. The elevation is approximately 7,500 ft. above sea level.</p> <p>The terrain consists of bottom land with Beaver Creek draining southerly and steep to broken land on the north and south lines.</p> <p>Access is by way of U.S. Forest Service Roads 26, 24, and 565.</p> <p>The mean magnetic declination of 10° E. was derived from National Oceanic and Atmospheric Administration website.</p> <hr/>

