

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF
A PORTION OF THE SUBDIVISIONAL LINES
AND
THE SUBDIVISION OF SECTION 20,
TOWNSHIP 23 NORTH, RANGE 30 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Fabian Yazzie, Cadastral Surveyor

Under Special Instructions dated March 30, 2022, approved March 30, 2022, which provided for the surveys included under Group No. 1220, and assignment instructions dated April 14, 2022.

Survey commenced April 14, 2022

Survey completed April 27, 2022

INDEX DIAGRAM

TOWNSHIP 23 NORTH RANGE 30 EAST
 GILA & SALT RIVER MERIDIAN, ARIZONA

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T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the subdivisional lines, and the subdivision of section 20, Township 23 North, Range 30 East, Gila and Salt River Meridian, Arizona.

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

The south and east boundaries were surveyed by W.R. Fitzgerald, U.S. Deputy Surveyor, in 1882. A portion of the north boundary and the east boundary was surveyed by Charles L. Campbell, U.S. Deputy Surveyor, in 1907. The south and east boundary was resurveyed by Sydney E. Blout, U.S. Cadastral Engineer, in 1920. The portion of the north boundary was surveyed, and a portion of the north boundary resurveyed, and the west boundary and subdivisional lines were surveyed by Loyd E. Sechrist and William D. Wilson, U.S. Transitmen, in 1920. A portion of the south boundary was resurveyed by Adrien J. Rodriguez and Leonard R. Sandoval, Cadastral Surveyors, in 2008. A portion of the south boundary was correctively resurveyed by Fabian Yazzie, Cadastral Surveyor, in 2018.

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, 2009, and the Special Instructions dated March 30, 2022, for Group Number 1220, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation R8 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) DI2266 P107 GRANTS_NM2006 CORS ARP, DH4513 P015 DUECECLUBSAZ2005 CORS ARP, and DI2245 P011 SPIDERROCKAZ2005 CORS ARP, DM4629 AZRV ROUND VALLEY CORS ARP, DI0438 NMGR GRANTS NMDOT CORS ARP, and DH5816 P028 CHACONHP_NM2005 CORS ARP. The NAD 83 (2011) (EPOCH: 2010), geographic position of the following two corners are as follows:

The NAD 83 (2011) (EPOCH: 2010), geographic position of the corner of sections 20, 21, 28, and 29.

Latitude: 35°22'11.641" N.

Longitude: 109°10'35.251" W.

T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona

CHAINS

The NAD 83 (2011) (EPOCH: 2010), geographic position of the corner of sections 17, 18, 19, and 20.

Latitude: 35°23'03.877" N. Longitude: 109°11'39.222" W.

The mean magnetic declination is 9 1/4° E.

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Lloyd E. Sechrist and William D. Wilson, in 1920

Beginning at the cor. of secs. 20, 21, 28, and 29, monumented with an iron post, 2 ins. diam., firmly set, projecting 14 ins. above the ground, with brass cap mkd. T23N R30E S20 S21 S28 S29 1920.

from which the 1920 bearing trees

A juniper, 12 ins. diam., bears N. 60 3/4° E., 31.2 lks. dist., with scribe marks T23NR30E S21 BT visible on open blaze. (1920 Record: 32 lks.)

A dead and down piñon, 13 ins. diam., bears S. 30 3/4° E., 18.3 lks. dist., with scribe marks T23NR30E S28 BT visible on partially open blaze. (1920 Record: S. 27 1/2° E., 19 lks.)

A dead and standing piñon, 16 ins. diam., bears S. 63 1/2° W., 1.22 chs. dist., with scribe marks T23NR30E S29 BT visible on partially open blaze.

Add the marks 2022 to the brass cap.

Raise a supporting mound of stone, 3 ft. base, to top, and set a steel fence post alongside and N. of cor.

Cor. is located 50 lks. S. of a wash, 20 ft. wide, 8 ft. deep, drains N. 80° W.

N. 0°07' W., bet. secs. 20 and 21.

Over rolling terrain, through dense sage brush, covered with juniper and piñon.

40.01

The 1/4 sec. cor. of secs. 20 and 21, firmly set, monumented with an iron post, 1 in. diam., firmly set, projecting 34 ins. above ground, in a supporting mound of stone, 5 ft. base, to top, with brass cap mkd. 1/4 S20 S21 1920.

from which the 1920 bearing trees

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>A juniper, 14 ins. diam., bears N. 19 1/2° E., 5.6 lks. dist., with a healed blaze.</p> <p>A dead and standing decomposing piñon stump, 5 ins. diam., projecting 25 ins. above ground, bears S. 64 1/2° W., 25.6 lks. dist., with no visible marks. (1920 Record: S. 63 1/2° W.)</p> <p>Add the marks T23N R30E 2022 to the brass cap.</p> <hr/> <p>N. 0°11' W., beginning new measurement.</p> <p>Over rugged terrain.</p>
39.95	<p>The cor. of secs. 16, 17, 20, and 21, monumented with an iron post, 2 ins. diam., firmly set, projecting 19 ins. above the ground, encircled with a scattered mound of stone, 5 ft. base, 1/2 ft. high, mkd. T23N R30E S16 S17 S20 S21 1920.</p> <p>from which the 1920 bearing trees</p> <p>A dead and down piñon, 8 ins. diam., bears N. 11 3/4° E., 90.2 lks. dist., with no visible scribe marks. (1920 Record: N. 12° E., 92 lks.)</p> <p>A dead and down piñon, 5 ins. diam., bears S. 65° E., 32.5 lks. dist., with no visible scribe marks. (1920 Record: 31 lks.)</p> <p>A dead and down decomposed piñon, 12 ins. diam., bears S. 47 1/2° W., 66.3 lks. dist., with scribe marks T23NR30E S20 BT visible on open blaze. (1920 Record: S. 47° W., 64 lks.)</p> <p>A juniper, 14 ins. diam., bears N. 73° W., 97.2 lks. dist., with scribe marks T23NR30E S17 BT visible on open blaze.</p> <p>Add the marks 2022 to the brass cap.</p> <p>Disassemble orig. mound of stone, and rebuild supporting mound of stone, 4 1/2 ft. base, to top, and set a steel fence post alongside and W. of cor.</p> <hr/> <p>From the cor. of secs. 20, 21, 28, and 29.</p> <p>N. 89°57' W., bet. secs. 20 and 29.</p> <p>Over gently rolling terrain, through dense sage brush.</p>
5.50	<p>Wash, 40 ft. wide, 8 ft. deep, drains S. 45° W.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona

CHAINS	
35.35	Two track road, bears S. 15° E. and N. 15° W.
40.05	<p>The 1/4 sec. cor. of secs. 20 and 29, monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above the ground, mkd. 1/4 S20 S29 1920.</p> <p>from which the remaining 1920 bearing tree</p> <p style="padding-left: 40px;">A forked juniper, 13 ins. diam., bears N. 66° E., 1.79 chs. dist., with a healed blaze.</p> <p>Add the marks T23N R30E 2022 to the brass cap.</p> <p>Build a mound of stone, 3 ft. base, to top, and set a steel fence post alongside and N. of cor. within mound of stone.</p> <p>From this cor. point, a fence cor. post of dilapidated barbed wire fence, 7 strands, encompasses an abandoned field, extending N. 20° E. and N. 70° W., bears N. 55° E., 74 lks. dist.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 89°58' W., beginning new measurement.</p> <p>Over rolling terrain.</p>
30.25	E. rim of Black Creek Canyon, 120 ft. deep, bears S. 5° W. and N. 55° W.
36.75	W. rim of Black Creek Canyon, 120 ft. deep, bears S. 10° E. and N. 10° W.
40.06	<p>The cor. of secs. 19, 20, 29, and 30, monumented with an iron post, 2 ins. diam., firmly set, projecting 13 ins. above the ground, slightly leaning to the NE, in a scattered mound of stone, 4 ft. base, 1 ft. high, mkd. T23N R30E S19 S20 S29 S30 1920.</p> <p>from which the 1920 bearing trees</p> <p style="padding-left: 40px;">A dead and down piñon, 11 ins. diam., bears N. 42° E., 1.42 chs. dist., with scribe marks T23N R30E S20 BT visible on open blaze.</p> <p style="padding-left: 40px;">A juniper, 10 ins. diam., bears S. 85° E., 37.1 lks. dist., with scribe marks T23NR30E S29 BT visible on open blaze.</p> <p style="padding-left: 40px;">A piñon, 10 ins. diam., bears S. 62 1/4° W., 42.3 lks. dist., with a healed blaze. (1920 Record: 43 lks.)</p> <p style="padding-left: 40px;">A juniper, 15 ins. diam., bears N. 24° W., 16.9 lks. dist., with scribe marks BT visible on partially healed blaze. (1920 Record: N. 27° W.)</p> <p>Reset the orig. iron post in place, plumbing it.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Add the marks 2022 to the brass cap.</p> <p>Disassemble orig. mound of stone, and rebuild supporting mound of stone, 3 ft. base, to top, and set a steel fence post alongside and W. of cor. within mound of stone.</p> <hr/> <p>From the cor. of secs. 19, 20, 29, and 30.</p> <p>N. 0°07' W., bet. secs. 19 and 20.</p> <p>Over broken and rolling terrain.</p>
3.25	W. rim of Black Creek Canyon, 120 ft. deep, bears S. 60° E. and N. 55° W.
9.70	E. rim of Black Creek Canyon, 120 ft. deep, bears S. 55° E. and N. 35° W.
38.35	Two track road, bears S. 65° E. and N. 65° W.
40.00	<p>The 1/4 sec. cor. of secs. 19 and 20, monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above the ground, mkd. 1/4 S19 S20 1920.</p> <p>from which the remaining 1920 bearing tree</p> <p style="padding-left: 40px;">A dead and down piñon, 8 ins. diam., bears N. 55 1/2° E., 76.2 lks. dist., with scribe marks BT visible on partially healed blaze.</p>
	<p>Add the marks T23N R30E 2022 to the brass cap.</p> <p>Set a steel fence post alongside and N. of cor.</p> <p>Cor. is located 1.15 lks. W. of a juniper post, 6 ins. diam., firmly set, projecting 75 ins. above ground.</p> <p>Cor. is also located 86.5 lks. E. of main channel of a wash, 10 ft. wide, left bank is 6 ft. deep, drains S. 60° W., and is 1.80 chs. E. of a two track road, bears N. and S.</p> <hr/> <p>N. 0°09' W., beginning new measurement.</p> <p>Over rolling terrain.</p>
10.65	Two track road, bears N. 25° E. and S. 25° W.
40.00	The cor. of secs. 17, 18, 19, and 20, monumented with an iron post, 2 ins. diam., firmly set, projecting 28 ins. above the ground, in a supporting mound of stone, 3 1/2 ft. base, 1 1/2 ft. high, mkd. T23N R30E S17 S18 S19 S20 1920.

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>from which the 1920 bearing trees</p> <p>A juniper, 11 ins. diam., bears S. 35 3/4° E., 5.5 lks. dist., with scribe marks T23NR30E S20 BT visible on open blaze.</p> <p>A dead and down piñon, 4 ins. diam., bears S. 74° W., 1.62 chs. dist., with scribe marks T23NR30E S19 BT visible on open blaze.</p> <p>Add the marks 2022 to the brass cap.</p> <p>Disassemble orig. mound of stone, and rebuild supporting mound of stone, 4 ft. base, to top.</p> <p>From this cor., a series of wooden posts extends S. 88° E. and S. 1 3/4° W.</p> <p>Cor. is located 20 lks. E. and 45 lks. N of a wash, 5 ft. wide, 1 ft. deep, drains S. 10° E.</p> <hr/>
	<p>From the cor. of secs. 16, 17, 20, and 21.</p>
	<p>N. 89°58' W., bet. secs. 17 and 20.</p>
	<p>Over the SW slope of rocky and broken terrain.</p>
37.15	<p>Top of vertical cliff, 80 ft. deep, bears N. 55° E. and S. 50° W.</p>
40.06	<p>The 1/4 sec. cor. of secs. 17 and 20, monumented with an iron post, 1 in. diam., firmly set, projecting 31 ins. above the ground, in a supporting mound of stone, 5 ft. base, 3 ft. high, mkd. 1/4 S17 S20 1920.</p> <p>from which the 1920 bearing trees</p> <p>A juniper, 38 ins. diam., bears N. 77 3/4° E., 86 lks. dist., with scribe marks 1/4 S17 BT visible on partially healed blaze.</p> <p>A juniper, 14 ins. diam., bears S. 27 3/4° E., 98.5 lks. dist., with scribe marks 1/4 S20 BT visible on open blaze.</p> <p>Add the marks T23N R30E 2022 to the brass cap.</p> <p>Cor. is located 2 chs. N. of a vertical cliff, 80 ft. deep, bears N. 75° E. and N. 25° W., and is located 90 lks. E. of the same vertical cliff, 80 ft. deep, bears N. 35° E. and S. 20° E., and is 1.15 chs. S. of the same vertical cliff, 80 ft. deep, bears N. 35° E. and S. 45° W.</p> <hr/>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>N. 89°55' W., beginning new measurement.</p> <p>Over the SW slope of rocky and broken terrain.</p> <p>28.70 Two track road, bears N. 50° E. and S. 50° W.</p> <p>40.03 The cor. of secs. 17, 18, 19, and 20.</p> <hr/> <p style="text-align: center;">Subdivision of Section 20, T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona</p> <hr/> <p>From the 1/4 sec. cor. of secs. 20 and 29.</p> <p>N. 0°09' W., on the N. and S. center line of sec. 20.</p> <p>Over gently rolling and open land.</p> <p>8.35 Two track road, bears S. 85° E. and N. 85° W.</p> <p>10.90 From this point, the remnants of a sandstone foundation to an old house, 34 x 34 ft., bears W., 1.65 chs. dist., southerly wall bears S. 65° W. and easterly wall bears N. 25° W.</p> <p>12.30 From this point, the remnants of a sandstone foundation to an old house, 29 x 19 ft., bears W., 2.45 chs. dist., southerly wall bears S. 65° W. and easterly wall bears N. 25° W.</p> <p>34.75 Earthen dam, 415 ft. long, 40 ft. wide, 30 ft. high, bears S. 80° E. and N. 80° W.</p> <p>40.01 Point for the center 1/4 sec. cor. of sec. 20, at intersection with the E. and W. center line sec. 20.</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;">T 23 N R 30 E C 1/4 S 20</p> <p style="text-align: center;">2022</p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Set a steel fence post alongside and W. of cor.</p> <p>From this cor. point, a juniper post, like the one found at the 1/4 sec. cor. of secs. 19 and 20, 6 ins. diam., firmly set, projecting 68 ins. above ground, bears S. 60° E., 4.85 lks. dist.</p>
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Subdivision of Section 20,
T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona

CHAINS	
79.96	<p>The 1/4 sec. cor. of secs. 17 and 20.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 20 and 21.</p> <p>N. 89°58' W., on the E. and W. center line of sec. 20.</p> <p>Over rolling and broken terrain.</p>
40.08	The center 1/4 sec. cor. of sec. 20.
80.11	The 1/4 sec. cor. of secs. 19 and 20.
	<hr/> <p>GENERAL DESCRIPTION</p> <hr/> <p>The area surveyed is within the Navajo Indian Reservation, 6 miles north of Houck, AZ, and 6 1/2 miles northwest of Lupton, AZ. Access is provided by one two track road meandering through section 20 and creating an ingress and egress loop to enter from either the Houck interchange exit ramp off Interstate 40, or from the Lupton interchange exit ramp off Interstate 40. ATVs were required to access the majority of the areas within the section.</p> <p>The elevation ranges between 6300 feet above sea level, in the southern portion of the section, and 6800 feet above sea level, in the northern portion of the section. The terrain is mostly rolling and mountainous with rock outcrops in the northern part of the section, and gently rolling to broken in southern part of the section.</p> <p>Black Creek Canyon isolates the cor. of secs. 19, 20, 29, and 30, from the rest of section 20, and enters and exits from the SW 1/4 of the SW 1/4 of section 20, draining southwesterly. There is presence of grazing livestock throughout the area, and there is grazing land use permit within the township and surrounding section 20.</p> <p>Three 160 acre Indian Allotments are identified in the NE 1/4, the SE 1/4, and the NW 1/4 of section 20. There are no residential housings within section 20. There are two dilapidated structures with sandstone foundations within the SW 1/4 of section 20 and looks to have been abandoned for many years. Adjacent to the foundation are unmaintained barbed wire fences encompassing an abandoned uncultivated field to the NE and SE. Further north along the North and South center line of section 20, is an earthen dam that is completely intact.</p> <p>The mean magnetic declination of 9 1/4° E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2020 for the dates of survey.</p> <hr/>

CERTIFICATE OF SURVEY

I, Fabian Yazzie, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 30th day of March, 2022, I have dependently resurveyed a portion of the subdivisional lines, and the subdivision of section 20, T. 23 N., R. 30 E., 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, 2009, and in specific manner described in the foregoing field notes.

6/27/2022
(Date)

Fabian Yazzie
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the subdivisional lines, and the subdivision of section 20, T. 23 N., R. 30 E., Gila and Salt River Meridian, in the State of Arizona, executed by Fabian Yazzie, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

7/6/2022
(Date)

Happy A. Mohr
(Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY That the foregoing transcript of the field notes of the above described surveys in T. 23 N., R. 30 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____
(Date)~~

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