

ORIGINAL

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

FIELD NOTES

OF THE DEPENDENT RESURVEY OF
A PORTION OF THE WEST AND NORTH BOUNDARIES
AND A PORTION OF THE SUBDIVISIONAL LINES

AND

THE SUBDIVISION OF SECTION 6
TOWNSHIP 20 SOUTH, RANGE 22 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Craig S. Dukart, Cadastral Surveyor

Under Special Instructions dated March 13, 2015, approved March 13, 2015, which provided for the surveys included under Group No. 1143, and Assignment Instructions dated March 13, 2015.

Survey commenced March 16, 2015

Survey completed March 19, 2015

INDEX DIAGRAM

TOWNSHIP 20 SOUTH RANGE 22 EAST
GILA & SALT RIVER MERIDIAN, ARIZONA

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T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the West and North boundaries, a portion of the subdivisional lines and the subdivision of section 6, Township 20 South, Range 22 East, Gila and Salt River Meridian, Arizona.

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

The survey of the Fourth Standard Parallel South through Range 22 E. and Exteriors of Townships 19 and 20 South, Ranges 22 East, Gila and Salt River Meridian, were surveyed by Theo. F. White, Deputy Surveyor, in 1881. (Book 1484)

The resurvey of the Fourth Standard Parallel South through Range 22 East, a portion of the north boundary, Township 20 South, Range 22 East, Gila and Salt River Meridian, were surveyed by John F. Hesse, United States Deputy Surveyor, in 1905. (Book 1892)

The retracement of the south boundary and the survey of the south half Township 19 South, Range 22 East, Gila and Salt River Meridian, were surveyed by John M. Ingalls, United States Deputy Surveyor, in 1905. (Book 2061)

The resurvey of the west boundary, Township 20 South, Range 22 East, Gila and Salt River Meridian, were surveyed by Raymond F. Moss, Assistant Cadastral Engineer, in 1941. (Book 4310)

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, (2009), and the Special Instructions dated March 13, 2015, for Group No. 1143, 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.

The "standard monument" referred to in these notes is a stainless steel post, 28 ins. Long, 2 1/2 ins. diam., with a brass cap. Unless otherwise indicated, a magnet in a white plastic case is deposited at the base of the stainless steel post.

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) DM7129 AZVA SYCAMORE ELEM SCH CORS ARP, DM7127 AZAM SOPORI ELEM SCH CORS ARP and DN9197 AZBR KBC LIBRARY CORS ARP. The NAD 83 (CORS96) (EPOCH: 2010), geographic position of the following two corners:

T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona

CHAINS	<p>The sec. cor. of secs. 7 and 18 only, on the west boundary, T. 20 S., R. 22 E., is as follows:</p> <p>Latitude: 31°42'04.593" N. Longitude: 110°08'46.307" W.</p> <p>The sec. cor. of secs. 5 and 6 only, on the north boundary T. 20 S., R. 22 E., is as follows:</p> <p>Latitude: 31°43'49.418" N. Longitude: 110°07'45.026" W.</p> <p>The mean magnetic declination is 9 3/4° E.</p> <hr/> <p style="text-align: center;">Dependent Resurvey of a portion of the West Boundary T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona</p> <hr/> <p style="text-align: center;">Restoring the resurvey executed by Raymond F. Moss, 1941</p> <hr/> <p>Beginning at the cor. of secs. 7 and 18 only, T. 20 S., R. 22 E., monumented with an iron post, 2 ins. diam., firmly set, projecting 16 ins. above the ground, with brass cap mkd. T20S T20S R21E S7 S12 S18 R22E 194, with the original stone, 8 x 10 ins., 13 ins. above the ground, with 2 notches on the N face and 4 notches on the S face, alongside, and a mound of stone, 3 ft. base, 1 1/2 ft. high, E. of the cor.</p> <p>Add the marks 2015 and 1 to brass cap, and bury the original stone horizontally, alongside the iron post.</p> <p>From this cor., the sec. cor. of secs. 12 and 13 only, T. 20 S., R. 21 E., bears S. 0°35' E., 69 lks. dist., monumented with an iron post, 2 ins. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd. T20S T20S S12 R22E S13 S18 R21E 1941, with a mound of stone, 2 1/2 ft. base, 1 1/2 ft. high, W of the cor.</p> <p>The sec. cor. of secs. 7 and 18 only, is located in a fence line, bears E and W.</p> <p>North, on the west boundary of sec. 7.</p> <p>Over slightly rolling terrain, through mesquite and creosote brush.</p> <p>39.32 The 1/4 sec. cor. of sec. 12 only, T. 20 S., R. 21 E., monumented with an iron post, 1 in. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. 1/4 S12 1941, with a mound of stone, 3 ft. base, 1 ft. high, W of cor. Add the marks T20S R21E R22E 2015 to brass cap.</p>
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**Dependent Resurvey of A Portion of The West Boundary
T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona**

CHAINS	
40.11	<p>The 1/4 sec. cor. of sec. 7 only, T. 20 S., R. 22 E., monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above the ground, with brass cap mkd. 1/4 S7 1941, with the original stone, 4 x 6 ins., 6 ins. above the ground, mkd. 1/4 on the E face, alongside, and a mound of stone, 2 ft. base, 1 ft. high, E of cor. Add the marks T20S R21E R22E 2015 to brass cap.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°03' W., beginning new measurement.</p>
39.20	<p>The sec. cor. of secs. 1 and 12 only, T. 20 S., R. 21 E., monumented with an iron post, 2 ins. diam., firmly set, projecting 9 ins. above the ground, with brass cap mkd. T20S T20S S1 R22E S12 S7 R21E 1941, with a mound of stone, 2 ft. base, 1 ft. high, W of cor. Add the marks 2015 to brass cap.</p>
39.65	<p>The sec. cor. of secs. 6 and 7 only, T. 20 S., R. 22 E., monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. T20S T20S R21E S6 S1 S7 R22E 1941, with the original stone, 6 x 11 ins., 6 ins. above the ground, with 4 notches on the E face, alongside, and a mound of stone, 2 ft. base, 1 ft. high, E of cor.</p> <p>Add the marks 2015 to brass cap, bury the original stone horizontally, alongside the iron post, and incorporate the accessory mound of stone into a supporting mound of stone, 2 1/2 ft. base, to cap.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°07' W., on the west boundary of sec. 6.</p> <p>Over slightly rolling terrain, through mesquite and creosote brush.</p>
39.57	<p>The 1/4 sec. cor. of sec. 1 only, T. 20 S., R. 21 E., monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. 1/4 S1 1941, with a mound of stone, 2 1/2 ft. base, 1 ft. high, W of cor. Add the marks T20S R21E R22E 2015 to brass cap.</p>
40.64	<p>The 1/4 sec. cor. of sec. 6 only, T. 20 S., R. 22 E., monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above the ground, with brass cap mkd. 1/4 S6 1941, with a mound of stone, 3 ft. base, 1 ft. high, E of cor. Add the marks T20S R21E R22E 2015 to brass cap.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°01' W., beginning new measurement.</p>
31.35	<p>Left bank of Walnut Gulch, bears S. 75° E. and N. 75° W.</p>

**Dependent Resurvey of A Portion of The West Boundary
T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona**

CHAINS	
33.30	Right bank of Walnut Gulch, bears S. 60° E. and N. 70° W.
40.14	<p>The sec. cor. of secs. 1, 6, 31 and 36, Tps. 19 and 20 S., Rs. 21 and 22 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd. T19S R21E R22E S36 S31 S1 S6 T20S 1941, with a mound of stone, 3 ft. base, 1 1/2 ft. high, S of cor. Add the marks 2015 to brass cap.</p> <p>This cor. is located in a fence line, bears E and W.</p> <hr/> <p align="center">Dependent Resurvey of a portion of the North Boundary T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona</p> <hr/> <p align="center">Restoring the retracement executed by John M. Ingalls, 1905</p> <hr/> <p>From the cor. of secs. 5 and 6 only, monumented with a stone, 5 x 6 ins., firmly set, projecting 6 ins. above the ground, with 5 notches on the E face and 1 notch on the W face, with a mound of stone, 2 1/2 ft. base, 2 ft. high, W of cor.</p> <p>From this cor., the closing cor. of secs. 31 and 32 only, T. 19 S., R. 22 E., bears N. 89°21' E., 1.10 chs. dist., monumented with a stone, 6 x 11 ins., 7 ins. above ground, with 5 notches on the E face, 1 notch on the W face and CC on the N face, with a mound of stone, 2 1/2 ft. base, 1 ft. high, N of cor.</p> <p>N. 89°59' W., on the north boundary of sec. 6.</p> <p>Over slightly rolling terrain, through mesquite and creosote brush.</p>
40.18	<p>Point for the 1/4 sec. cor. of sec. 6 only, at proportionate distance; there is no remaining evidence of the original cor., not monumented.</p> <p>From this point, rebar, 1/2 in. diam., flush with the ground, with alum. cap. mkd. RLS43073 T20S R22E 31 1/4 6 2006 ALS INC, established by, Christopher M. Wickern, Arizona R.L.S. No. 43073, in 2006, bears N. 72°03' E., 1 lk. dist. This position was established at midpoint instead of at proportionate dist. using the 1905 record, and is not utilized in the course of this resurvey.</p>
60.35	Point for the W 1/16 sec. cor. of sec. 6 only, at proportionate distance.

**Dependent Resurvey of A Portion of The North Boundary
T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Set a standard monument, 24 ins. in the ground, with a stone collar, mkd.</p> <p style="text-align: center;">T 19 S R 22 E</p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;">W 1/16 S 6 T 20 S R 22 E</p> <p style="text-align: center;">2015</p> <p>From this point, rebar, 1/2 in. diam., projecting 1 in. above the ground, with plastic cap. mkd. ALS INC RLS 43073, established by, Christopher M. Wickern, Arizona R.L.S. No. 43073, in 2006, bears N. 57°46' E., 0.6 lks. dist. This position was established at proportionate dist. using the 1905 record for the west portion of this line, after previously determining it to be half the distance of the entire section line, and is not utilized in the course of this resurvey.</p> <p>This cor. is located at the end of a fence, bears W.</p>
65.65	Left bank of Walnut Gulch, bears N. 55° E. and S. 60° W.
72.65	Right bank of Walnut Gulch, bears S. 11° E. and N. 45° W.
80.34	The sec. cor. of secs. 1, 6, 31, and 36, Tps. 19 and 20 S., Rs. 21 and 22 E.
<hr/> <p>Dependent Resurvey of a portion of the Subdivisional Lines T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona</p> <hr/>	
<p>Restoring the survey executed by John F. Hesse, 1905</p> <hr/>	
	<p>From the 1/4 sec. cor. of secs. 6 and 7, monumented with a stone, 5 x 8 ins., firmly set, projecting 6 ins. above the ground, with no marks visible on a rough surfaced N face, with a mound of stone, 2 1/2 ft. base, 1 ft. high, N of cor., and an iron pipe, 1 in. diam., projecting 15 ft. above the ground, W of the cor.</p> <p>S. 89°00' W., bet. secs. 6 and 7.</p> <p>Over slightly rolling terrain, through mesquite and creosote brush.</p>
40.23	The sec. cor. of secs. 6 and 7 only, T. 20 S., R. 22 E.

Dependent Resurvey of A Portion of The Subdivisional Lines
T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From the 1/4 sec. cor. of secs. 5 and 6, monumented with a stone, 6 x 6 ins., firmly set, projecting 8 ins. above the ground, mkd. 1/4 on the W face, with a mound of stone, 2 ft. base, 1 1/2 ft. high, W of cor.</p> <p>N. 0°09' W., bet. secs. 5 and 6.</p> <p>Over slightly rolling terrain, through mesquite and creosote brush.</p>
39.69	The sec. cor. of secs. 5 and 6 only, T. 20 S., R. 22 E.
<hr/> <p>The Subdivision of Section 6 T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona</p> <hr/>	
	<p>From the 1/4 sec. cor. of secs. 6 and 7, hereinbefore described.</p> <p>N. 0°07' W., on the N. and S. centerline of sec. 6.</p> <p>Over slightly rolling terrain, through mesquite and creosote brush.</p>
40.16	Point for the center 1/4 sec. cor. of sec. 6, at intersection with the E. and W. centerline, not monumented.
	<p>From this point, rebar, 1/2 in. diam., flush with the ground, with alum. cap. mkd. RLS43073 T20S R22E C SEC 6 2006 ALS INC, established by, Christopher M. Wickern, Arizona R.L.S. No. 43073, in 2006, bears N. 59°28' E., 0.7 lks. dist. This position was established at intersection of the E and W centerline and the N and S centerline, using the erroneously calculated position for the 1/4 sec. cor. of sec. 6 only, on the N boundary, and is not utilized in the course of this resurvey.</p>
80.08	The 1/4 sec. cor. of sec. 6 only
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	<p>From the 1/4 sec. cor. of secs. 5 and 6, hereinbefore described.</p> <p>S. 89°41' W., on the E. and W. centerline of sec. 6.</p> <p>Over slightly rolling terrain, through mesquite and creosote brush.</p>
40.21	Point for the center 1/4 sec. cor. of sec. 6, not monumented.
60.32	Point for the C-W 1/16 sec. cor. of sec. 6, at proportionate dist.
	<p>Set a standard monument, 23 ins. in the ground, mkd.</p>

The Subdivision of Section 6
 T. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona

<p>CHAINS</p>	<p style="text-align: center;">T 20 S R 22 E</p> <p style="text-align: center;">W 1/16 C ————— C S 6</p> <p style="text-align: center;">2015</p> <p>Raise a mound of stone, 3 ft. base, 2 1/2 ft. high, S of cor.</p> <p>From this point, rebar, 1/2 in. diam., projecting 3 ins. above the ground, with plastic cap, established by, Christopher M. Wickern, Arizona R.L.S. No. 43073, in 2006, bears N. 81°49' W., 2.2 lks. dist. This position was established using the erroneously calculated position for the center 1/4 sec. cor. and is not utilized in the course of this resurvey.</p> <p>80.44 The 1/4 sec. cor. of sec. 6 only</p> <hr/> <p>From the C-W 1/16 sec. cor. of sec. 6.</p> <p>N. 0°12' W., on the N. and S. centerline of NW 1/4 of sec. 6., identical with the East Boundaries of Lots 4 and 5.</p> <p>Over slightly rolling terrain, through mesquite and creosote brush.</p> <p>40.03 The W 1/16 sec. cor. of sec. 6 only.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>This survey is located along Walnut Gulch, approximately 5 miles northwesterly of Tombstone, Arizona. Access is by way of a dirt road off of Highway 82.</p> <p>The terrain is slightly rolling, broken by small washes, with mesquite and creosote brush. Walnut Gulch crosses the N and W boundaries of this township in sec. 6. The elevation is between 4000 to 4100 ft. above sea level.</p> <p>This survey was performed at the request of the Tucson Field Office, Bureau of Land Management in order to define a portion of the San Pedro Riparian National Conservation Area Boundary for fencing purposes.</p> <p>The mean magnetic declination of 9 3/4° E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2005 for the dates of survey.</p> <hr/>
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CERTIFICATE OF SURVEY

I, Craig S. Dukart, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 13th day of March, 2015, I have depently resurveyed portions of the West and North boundaries and a portion of the subdivisional lines, and the survey of the subdivision of section 6, T. 20 S., R. 22 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 Surveying Instructions, (2009), and in specific manner described in the foregoing field notes.

JUNE 3, 2015
(Date)

Craig S. Dukart
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of portions of the West and North boundaries and a portion of the subdivisional lines and the subdivision of section 6, T. 20 S., R. 22 E., Gila and Salt River Meridian, in the State of Arizona, executed by Craig S. Dukart, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

6/17/2015
(Date)

[Signature]
(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. 20 S., R. 22 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

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

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