

Form 9180-6
(April 1974)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF THE

FIFTH STANDARD PARALLEL NORTH (SOUTH BOUNDARY)

THROUGH A PORTION OF RANGE 9 EAST,

AND A

PORTION OF THE SECTIONAL CORRECTION LINE

AND THE

SURVEY OF THE SUBDIVISION OF SECTION 31

OF

TOWNSHIP 21 NORTH, RANGE 9 EAST

Of the GILA AND SALT RIVER Meridian,

In the State of ARIZONA

EXECUTED BY

HOWARD L. PETERSEN

SUPERVISORY CADASTRAL SURVEYOR

Under special instructions dated April 15, 1974, approved April 22, 1974,

_____, which provided for the surveys included under ~~USGS~~ Survey/Group
Number 556, and assignment instructions dated April 12, 1974.

Survey commenced May 6, 1974

Survey completed June 28, 1974

INDEX DIAGRAM

Township 21 NORTH, Range 9 EAST

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subdivision of section 31 Pages 5 - 7.

Township 21 North, Range 9 East
Gila and Salt River Meridian, Arizona

CHAINS

The following field notes are those of the dependent resurvey of the Fifth Standard Parallel North, (south boundary), through a portion of Range 9 East, a portion of the sectional correction line and a survey of the subdivision of section 31, Township 21 North, Range 9 East, Gila and Salt River Meridian, Arizona.

A. E. Shoemaker surveyed the Fifth Standard Parallel North in 1883. C. R. and M. Caudle resurveyed the Fifth Standard Parallel North and surveyed the subdivisional lines in 1902.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions, for Group No. 556, Arizona, dated April 15, 1974.

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

The directions of all lines were determined by hour angle observations on Polaris, and direct solar observations carried forward by fore- and backsights and sustained angulation.

The geographic position of the angle point on the south boundary of Section 30, as scaled from the U.S. Geological Survey Quadrangle Map, "WINONA, ARIZONA," prepared in 1968, is as follows:

Latitude 35° 09.1' N. Longitude 111° 28.3 W.

The observed magnetic declination is 14° E.

Dependent Resurvey of a Portion of the
Fifth Standard Parallel North, on the South Boundary
Township 21 North, Range 9 East,
Gila and Salt River Meridian, Arizona

Restoring the survey executed by A. E. Shoemaker in 1883
and resurveyed by Caudle and Caudle in 1902

Beginning at the stan. cor. of secs. 31 and 32, monumented with a sandstone, 20 x 12 x 5 ins., set 15 ins. in the ground, with 5 grooves on the E. and 1 groove on the W. faces, and S.C. on the N. face, from which the remaining 1902 bearing tree

A cedar, 8 ins. diam., bears N. 25 3/4° E.,
277 lks. dist., with healed blaze.

This now becomes an angle point.

At the corner point

Dependent Resurvey of a Portion of the
Fifth Standard Parallel North, on the South Boundary
Township 21 North, Range 9 East
Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, to bedrock, encircled by a mound of stone, 2 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T21N R9E SC AP ----- 1974</p> <p>Raise a mound of stone, 2 ft. base, 2 ft. high, N. of cor. and deposit original corner stone in mound.</p> <p>N. 89° 22' W., along the S. bdy. of sec. 32.</p> <p>Through thick pine, cedar and pinon timber.</p>
0.90	<p>The closing cor. of secs. 31 and 32, monumented with a limestone, 18 x 7 x 6 ins., set 10 ins. in the ground, mkd. C.C. on the N., 5 grooves on the E., and 1 groove on the W. faces, from which the original bearing trees</p> <p style="padding-left: 40px;">A cedar, bears N. 40° E., 325 lks. dist. (this bearing tree is identical with the 1902 NE bearing tree for the AP).</p> <p style="padding-left: 40px;">A cedar, bears N. 68° W., 187 lks. dist., mkd. T21N R9E S31 BT.</p> <p>At the corner point</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T21N R9E C C S 31 S 32 ----- 1974</p> <p>Raise a mound of stone, 2 ft. base, 2 ft. high, S. of cor. and deposit the original corner stone in mound.</p>
2.40	Trail road, bears NE and SE.
28.00	Trail road, bears N. and S.
39.92	<p>The stan. 1/4 sec. cor. of sec. 31, monumented with a limestone, 18 x 10 x 8 ins., set on a limestone ledge, supported in a mound of stone, mkd. S C 1/4 on the N. face, from which the original bearing tree</p> <p style="padding-left: 40px;">A pinon, 10 ins. diam., bears S. 53° W., 26 lks. dist., mkd. 1/4 S B T (Record, 28 lks.)</p> <p>and the remains of the 1902 bearing trees</p> <p style="padding-left: 40px;">A pinon, 14 ins. diam., bears N. 59½° E., 28 lks. dist., mkd. S C 1/4 S31 BT,</p> <p style="padding-left: 40px;">A stump hole, bears N. 79½° W., 38 lks. dist., a dead and down pinon, 8 ins. diam., alongside, mkd. S C 1/4 S 31 BT, (Record, 35 lks. dist.)</p> <p>This cor. now becomes an angle point.</p> <p>At the corner point</p>

Dependent Resurvey of a Portion of the
Fifth Standard Parallel North, on the South Boundary
Township 21 North, Range 9 East
Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Set a brass tablet, 3¼ ins. diam., 3½ in. stem, in a drill hole in the ledge, with top mkd.</p> <p style="text-align: center;">T21N R9E S C <u>A P</u> 1974</p> <p>from which</p> <p style="padding-left: 40px;">A cedar, 6 ins. diam., bears N. 40° W., 55 lks. dist., mkd. A P BT.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. and deposit original corner stone in mound.</p> <p>Cor. is located 50 lks. W of rim of the canyon.</p> <p style="text-align: center;">_____</p> <p>N. 89° 14' W., beginning new measurement.</p> <p>Descend into Cherry Canyon.</p>
0.99	<p>Point for the stan. 1/4 sec. cor. of sec. 31, at proportionate dist. on the S. bdy. of sec. 31.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (+) on rock ledge, encircled in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">S C T21N R9E <u>1/4 S 31</u> 1974</p> <p>from which</p> <p style="padding-left: 40px;">A cedar, 12 ins. diam., bears N. 73° W., 23 lks. dist., mkd. T21N R9E 1/4 S31 BT.</p> <p>Cor. is located at base of 8 ft. limestone ledge, by a crevice, 1½ ft. wide, 8 ft. deep.</p> <p>Across Cherry Canyon.</p>
13.40	<p>W. rim of Cherry Canyon.</p>
28.40	<p>Trail road, bears N. and S.</p>
39.20	<p>The stan. cor. of Tps. 21 N., Rs. 8 and 9 E., monumented with an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the dependent resurvey of a portion of the E. bdy. of T. 21 N., R. 8 E., executed concurrently under this group.</p>
<p>Dependent Resurvey of a Portion of the Sectional Correction Line, Township 21 North, Range 9 East, Gila and Salt River Meridian, Arizona</p>	
<p>Restoring the survey executed by Caudle and Caudle in 1902</p> <p style="text-align: center;">_____</p>	

Dependent Resurvey of a Portion of the
Sectional Correction Line
Township 21 North, Range 9 East
Gila and Salt River Meridian, Arizona

CHAINS	
	<p>From the cor. of secs. 29, 30, 31 and 32, monumented with a limestone, 22 x 14 x 8 ins., set 8 ins. in the ground, mkd. with 5 notches on the E. face, and 1 notch on the S. face, from which the remains of the original bearing trees</p>
	<p>A cedar, 10 ins. diam., bears N. $71\frac{1}{2}^{\circ}$ E., 113 lks. dist., mkd. BT on partially healed blaze.</p>
	<p>A cedar stump, 10 ins. diam., 18 ins. high, bears S. $60\frac{1}{2}^{\circ}$ E., 67 lks. dist., mkd. E S32 BT. (Record, 60 lks. dist.)</p>
	<p>A cedar, 10 ins. diam., bears S. $45\frac{3}{4}^{\circ}$ W., 76 lks. dist., mkd. T21N R9E S31 BT.</p>
	<p>At the corner point</p>
	<p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 12 ins. in the ground, to bedrock, encircled by a mound of stone, 2 ft. base, to top, with brass cap mkd.</p>
	<p style="text-align: center;">T21N R9E S 30 S 29 S 31 S 32</p>
	<p style="text-align: center;">1974</p>
	<p>from which</p>
	<p>A pinon, 12 ins. diam., bears S. $29\frac{1}{4}^{\circ}$ E., 123 lks. dist., mkd. X BT.</p>
	<p>A pinon, 6 ins. diam., bears N. $42\frac{1}{4}^{\circ}$ W., 92.5 lks. dist., mkd. X BT.</p>
	<p>Raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. and deposit the original corner stone in mound.</p>
	<p>Cor. located on W. edge of trail road and alongside fence line, which bears NW and SE.</p>
	<p>N. $89^{\circ} 59'$ W., bet. secs. 30 and 31.</p>
4.10	<p>Descend into Walnut Canyon.</p>
20.08	<p>Point for the E 1/16 sec. cor. of secs. 30 and 31.</p>
	<p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., over a cross (+) on solid rock, encircled in a mound of stone, 5 ft. base, to top, with brass cap mkd.</p>
	<p style="text-align: center;">T21N R9E E 1/16 $\frac{S 30}{S 31}$</p>
	<p style="text-align: center;">1974</p>
	<p>from which</p>
	<p>A cross (+) on the NE end of a rock filled dam, bears S. $45^{\circ} 08'$ E., 250 lks. dist.</p>
	<p>Raise a mound of stone, 2 ft. base, 2 ft. high, with a 5 ft. steel fence post, N. of cor.</p>

Dependent Resurvey of a Portion of the
Sectional Correction Line
Township 21 North, Range 9 East
Gila and Salt River Meridian, Arizona

CHAINS	
35.00	W. edge of Walnut Canyon; across mesa.
40.16	<p>The 1/4 sec. cor. of secs. 30 and 31, monumented with a sandstone, 20 x 10 x 10 ins., set 10 ins. in the ground, encircled by a mound of stone, mkd. 1/4 on erroded N. face.</p> <p>At the corner point</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 26 ins. in the ground, encircled by a mound of stone, to top, with brass cap mkd.</p> <p style="text-align: center;">T21N R9E 1/4 $\frac{S\ 30}{S\ 31}$</p> <p style="text-align: center;">1974</p> <p>from which</p> <p style="padding-left: 40px;">A cedar, 14 ins. diam., bears N. 40 3/4° E., 173 lks. dist., mkd. T21N R9E 1/4 S30 BT.</p> <p style="padding-left: 40px;">A pinon, 10 ins. diam., bears S. 4¼° W., 164 lks. dist., mkd. T21N R9E 1/4 S31 BT.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. and deposit the original stone in mound.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 89° 56' W., beginning new measurement.</p> <p>Through thick cedar and pinon over rolling terrain.</p>
38.47	<p>The cor. of secs. 25, 30, 31 and 36, on the W. bdy. of the Tp., monumented with an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the dependent resurvey of a portion of the E. bdy. of T. 21 N., R. 8 W., executed concurrently under this same group.</p>
<p>Survey of the Subdivision of Section 31, Township 21 North, Range 9 East, Gila and Salt River Meridian, Arizona</p>	
39.98	<p>Beginning at the stan. 1/4 sec. cor. of sec. 31, on the S. bdy. of the Tp., hereinbefore described.</p> <p>N. 0° 01' E., along the N. and S. center line of sec. 31.</p> <p>Along the E. rim of Cherry Canyon.</p> <p>Point for the center 1/4 sec. cor. of sec. 31, at the intersection with the E. and W. center line.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, to bedrock, encircled by a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T21N R9E C 1/4 S 31</p> <p style="text-align: center;">1974</p>

Survey of the Subdivision of Section 31
 Township 21 North, Range 9 East
 Gila and Salt River Meridian, Arizona

CHAINS		
80.38	<p>from which</p> <p>A cedar, 8 ins. diam., bears N. 59° E., 23 lks. dist., mkd. T21N R9E C 1/4 S31 BT.</p> <p>A spruce, 10 ins. diam., bears N. 18½° W., 17 lks. dist., mkd. T21N R9E C 1/4 S31 BT.</p> <p>Cor. is located on top of a 5 ft. high ledge, bearing E. and W., and 1 ch. down on steep N. slope, 2.5 chs. E. of end of a spur, slopes W., overlooking a sharp S. bend in Walnut Canyon.</p> <p>Across Walnut Canyon.</p> <p>The 1/4 sec. cor. of secs. 30 and 31.</p>	
20.03	<p>From the 1/4 sec. cor. of secs. 31 and 32, monumented with a limestone, 22 x 16 x 6 ins., set 10 ins. in the ground, encircled by a mound of stone, mkd. 1/4 on W. face, from which the original bearing trees</p> <p>A pinon, 10 ins. diam., bears N. 70¼° E., 125 lks. dist., mkd. 32 on partially healed blaze. (Record, N. 69 3/4° E., 113 lks.)</p> <p>A dead cedar, 14 ins. diam., bears S. 20 3/4° W., 81 lks. dist., mkd. S31 BT on partially reopened blaze. (Record, S 21 3/4° W., 77 lks.)</p> <p>At the corner point</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T21N R9E ¼ S 31 S 32 1974</p> <p>from which</p> <p>A cedar, 12 ins. diam., bears N. 83° W., 14.5 lks, dist., mkd. X BT,</p> <p>Deposit the original corner stone, in the base of mound. S. 89° 32' W., along the E. and W. center line of sec. 31.</p> <p>Through a growth of pine and pinon.</p> <p>Point for the C-E 1/16 sec. cor. of sec. 31.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, to bedrock, encircled by a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T21N R9E C-E 1/16 S 31 1974</p>	

Survey of the Subdivision of Section 31
Township 21 North, Range 9 East
Gila and Salt River Meridian, Arizona

CHAINS		
	from which	
	A pinon, 10 ins. diam., bears N. 44½° E., 80 lks. dist., mkd. T21N R9E CE 1/16 S31 BT.	
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.	
40.06	The center 1/4 sec. cor. of sec. 31.	
	Across Walnut Canyon.	
78.02	The 1/4 sec. cor. of secs. 31 and 36, on the W. bdy. of the Tp., monumented with an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the dependent resurvey of a portion of the E. bdy. T. 21 N., R. 8 E., executed concurrently under this same group.	
	From the C-E 1/16 sec. cor. of sec. 31.	
	N. 0° 05' E., along the N. and S. center line of the NE¼ of sec. 31.	
	Through thick cedar and pinon, over rolling ground.	
40.23	The E 1/16 sec. cor. of secs. 30 and 31.	
	<u>GENERAL DESCRIPTION</u>	
	Section 31, Township 21 North, Range 9 East, is situated approximately seven miles east, and five miles south of Flagstaff, Arizona. The terrain consists of rolling hills which are bisected by Walnut and Cherry Canyons which drain NE through the section.	
	The elevation varies from approximately 6640 ft. to 6300 ft. above sea level at the base of the canyon. The vegetation consists of heavy pinon, spruce, cedar and pine timber growth.	
	Access is by means of light duty and prairie trail roads which connect with Interstate Highway 40, approximately 4½ miles NE of the area. Access within the section is restricted due to Walnut and Cherry Canyons.	

CHAINS		

CERTIFICATE OF SURVEY

(I) ~~(We)~~, Howard L. Petersen, Supervisory Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 15th day of April, 1974, (I) ~~(We)~~ have dependently resurveyed the Fifth Standard Parallel North (south boundary), through a portion of Range 9 East and a portion of the sectional correction line and surveyed the subdivision of Section 31, of Township 21 North, Range 9 East,

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), ~~(us)~~ and under (my) ~~(our)~~ direction; and that 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.

April 22, 1977
(Date)

Howard L. Petersen
(Cadastral Surveyor)

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Washington, D.C.

The foregoing field notes of the dependent resurvey of the Fifth Standard Parallel North (south boundary), through a portion of Range 9 East, and a portion of the sectional correction line, and the survey of the subdivision of Section 31, of Township 21 North, Range 9 East, of the Gila and Salt River Meridian, Arizona,

executed by Howard L. Petersen, Supervisory Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

JUN 1 1977
(Date)

Bernard W. Foster
(Chief, Division of Cadastral Survey)

CERTIFICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

(Date)

(Chief, Division of Cadastral Survey) GPO 849-626