

FIELD NOTES

OF THE
DEPENDENT RESURVEY
OF A
PORTION OF THE FIFTH STANDARD PARALLEL NORTH
ALONG THE SOUTH BOUNDARY OF TOWNSHIP 21 NORTH, RANGE 5 EAST,
AND OF A
PORTION OF THE SUBDIVISIONAL LINES
AND
THE SURVEY OF
THE
SUBDIVISION OF SECTION 33
IN
TOWNSHIP 21 NORTH, RANGE 5 EAST

Of the GILA AND SALT RIVER Meridian,
In the State of ARIZONA

EXECUTED BY

JERROLD E. KNIGHT

CADASTRAL SURVEYOR

Under special instructions dated OCTOBER 13, 1978, approved OCTOBER 16, 1978,

_____, which provided for the surveys included under U.S. Survey/Group
Number 606, ARIZONA, and assignment instructions dated OCTOBER 13, 1978.

Survey commenced OCTOBER 16, 1978

Survey completed OCTOBER 25, 1978

1A

BOOK 5092

INDEX DIAGRAM

Township 21 North, Range 5 East

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Township 21 North, Range 5 East,
Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the Fifth Standard Parallel North along the south boundary of T. 21 N., R. 5 E., and of a portion of the subdivisional lines and the survey of the subdivision of section 33, in T. 21 N., R. 5 E., Gila and Salt River Meridian, Arizona.

The north boundary and the north half of the east boundary of sec. 33 were surveyed by J. L. Harris in 1878. Carl R. Caudle and Marvin Caudle surveyed a portion of the Fifth Standard Parallel North along the south boundary of T. 21 N., R. 5 E., in 1902. In 1904, Caudle and Caudle dependently resurveyed the north boundary and the north half of the east boundary of sec. 33 and they surveyed the remaining boundaries of sec. 33. All the boundaries of sec. 33 were resurveyed by Horace M. Muscott and Claude F. Warner in 1941.

This survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions for Group No. 606, Arizona, dated October 13, 1978.

Preliminary to the resurvey, the lines of the original surveys were retraced and all the original corners were identified. New intermediate corners were established at proportionate distance based on the original record. The retracement data were thoroughly verified and only the true line field notes are given herein.

The directions of the lines, which refer to the true meridian, were determined by a number of direct solar observations taken both in the morning and afternoon. The distances were measured with a Hewlett-Packard Model 3805 distance meter.

The geographic position of the southeast corner of sec. 33 as scaled from the U.S. Geological Survey Quadrangle Map, "BELLEMONT, ARIZ.," prepared in 1963, is as follows:

Latitude 35°08.9' N. Longitude 111°51.6' W.

The mean magnetic declination was determined to be 14 1/2° E.

Dependent Resurvey of a Portion of the
Fifth Standard Parallel North through
Range 5 East, Gila and Salt River Mer., Arizona

(Restoring the resurvey executed by Horace M. Muscott
and Claude F. Warner in 1941)

Beginning at the standard 1/4 sec. cor. of sec. 33, on the S bdy. of the Tp., monumented with an iron post, 1 in. diam., projecting 14 ins. above the ground, with brass cap marked as recorded in the 1941 field notes and from which the remaining original bearing tree:

A pine, 36 ins. diam., bears N. 42° W.,
111 lks. dist., mkd. with a healed blaze
(Record bearing: N. 50° W.)

Dependent Resurvey of a Portion of the
Fifth Standard Parallel North through
Range 5 East, Gila & Salt River Meridian, Arizona

CHAINS		
	<p>Remark the brass cap to read</p> <p style="text-align: center;">S C T21N R5E <u>1/4 S33</u> 1978 1941</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N of the cor.</p> <p>Cor. is located 5 lks. S of an E-W fence line on the N side of Volunteer Canyon near the base of a S slope.</p> <p>S. 89°51' E., along the Fifth Standard Parallel North on the S bdy. of sec. 33.</p> <p>Along the north side of the bottom of Volunteer Canyon.</p>	
2.00	Desc. 25 ft. over the SE face of a cliff.	
4.87	<p>The angle point on the standard parallel which was originally established as a standard 1/4 sec. cor., monumented with an iron post, 1 in. diam., set in a mound of stone, 4 ft. base, 2 ft. high, with brass cap mkd.</p> <p style="text-align: center;">A P T21N R5E <u>S33</u> 1941</p> <p>from which a bearing tree mkd. in 1941</p> <p style="padding-left: 40px;">A pine, 15 ins. diam., bears N. 89° E. 50 lks. dist., mkd. AP S33 BT.</p> <p>and a new bearing tree</p> <p style="padding-left: 40px;">A spruce, 15 ins. diam., bears S. 35° W., 16 lks. dist., mkd. X BT at the base.</p> <p>Cor. is located 11 lks. S of an E-W fence and at the N edge of the bottom of Volunteer Canyon.</p> <p style="text-align: center;">_____</p> <p>S. 89°51' E., beginning new measurement.</p> <p>Continue along the N side of Volunteer Canyon.</p>	
9.00	Small spur, slopes SE; desc.	
11.00	Volunteer Canyon, 2 chs. wide, drains S for 5 chs., thence westerly.	
12.00	Confluence of ravine from the SE with Volunteer Canyon; thence along the S side of the ravine.	
15.13	<p>Point of the standard E 1/16 sec. cor. of sec. 33 at proportionate dist. and on the S bdy. of the Tp.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 14 ins. in the ground and supported by a collar of stone, 3 ft. base to top of brass cap mkd.</p>	

Dependent Resurvey of a Portion of the
Fifth Standard Parallel North through
Range 5 East, Gila & Salt River Meridian, Arizona

CHAINS	
	S C T21N R5E E 1/16 S33 <hr/> 1978
	Raise a mound of stone, 4 ft. base, 2 ft. high, N of the corner.
	Cor. is located 21 lks. S of an E-W fence and in the S side of the bottom of a side canyon draining WNW into Volunteer Canyon.
16.50	Asc. steep SW slope.
21.00	Top of sharp spur, slopes NW; desc.
25.00	Bottom of Volunteer Canyon drains NW from easterly.
26.19	Fall 15 lks. South of the closing cor. of secs. 3 and 4, T. 20 N., R. 5 E., monumented with an iron post, 2 ins. diam., projecting 8 ins. above ground in a collar of stone, with brass cap properly mkd. and from which the remaining original bearing tree: <p style="margin-left: 40px;">A spruce, 24 ins. diam., bears S. 49 1/2° W., 145 lks. dist., mkd. T20N R5E S4 BT CC.</p> and the bearing tree mkd. in 1941 <p style="margin-left: 40px;">A fir, 20 ins. diam., bears S. 66° E., 170 lks. dist., mkd. T20N R5E S3 CC BT.</p> The monument is located 6 lks. S of an E-W fence and 50 lks. N of the water course in Volunteer Canyon which drains from SW to NW.
31.00	Leave canyon and ascend over a NW slope.
35.13	The closing corner of secs. 33 and 34, T. 21 N., R. 5 E., hereinafter described. <p>Continue bearing and distance, along the S bdy. of sec. 34.</p>
40.09	The angle point on the standard parallel which was originally established as the standard corner of secs. 33 and 34, monumented with an iron post, 1 in. diam., projecting 1 ft. above a mound of stone, 3 ft. base, 1 ft. high, with brass cap properly mkd. and from which the remaining original bearing tree: <p style="margin-left: 40px;">A yellow pine, 26 ins. diam., bears N. 39° E., 6 lks. dist., with illegible scribe marks in a partially healed blaze. (Record bearing: N. 39° W.)</p> Cor. is located S. 43° E., 13 lks. dist. from a fence bearing N and W.
	Dependent Resurvey of a Portion of the Subdivisional Lines of T. 21 N., R. 5 E., Gila and Salt River Meridian, Arizona

Dependent Resurvey of a Portion of the Subdivisional Lines of T. 21 N., R. 5 E., Gila & Salt River Mer., Arizona

CHAINS	
	<p>(Restoring the 1941 resurvey of Horace M. Muscott and Claude F. Warner)</p> <p>From the 1/4 sec. cor. of secs. 33 and 34, monumented with an iron post, 1 in. diam., projecting 5 ins. above the ground, in a scattered mound of stone with brass cap mkd. as recorded in the 1941 field notes and from which the remains of the original bearing trees:</p> <p>The nearly rotted remains of a pine stump bears N. 63 1/4° E., 269 lks. dist.</p> <p>A pine stump, 40 ins. diam., bears N. 59° W., 92 lks. dist., with no marks remaining.</p> <p>Remark the brass cap to read</p> <div style="text-align: center;"> <p>1/4 T21N R5E S33 S34 1978 1941</p> </div> <p>Rebuild the mound of stone, 3 ft. base, 2 ft. high, W. of the cor.</p> <p>South, between secs. 33 and 34.</p> <p>Over rolling land covered with grass and scattered timber.</p> <p>7.00 Top of low ridge bears ENE and WSW.</p> <p>20.02 Point for the S 1/16 sec. cor. of secs. 33 and 34 at proportionate dist.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T21N R5E S 1/16 S33 S34 1978</p> </div> <p>from which</p> <p>A ponderosa pine, 7 ins. diam., bears N. 63° E., 80 lks. dist., mkd. S 1/16 S34 BT.</p> <p>A ponderosa pine, 7 ins. diam., bears N. 81° W., 95 lks. dist., mkd. S 1/16 S33 BT.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, W of the cor.</p> <p>Cor. is located at the W edge of a track road bearing N and S curving SW.</p> <p>25.00 Low ridge, bears NE and SW; desc. SE slope.</p> <p>39.00 N rim of Volunteer Canyon, bears NE and SW.; desc. abruptly into bottom.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines
of T. 21 N., R. 5 E., Gila & Salt River Mer., Arizona

CHAINS	
43.00	Bottom of canyon; drains SW; asc. NW slope.
47.60	Top of low spur, slopes NW; desc. slightly to corner.
48.46	Barbed wire fence, bears E and W.
48.48	The original closing cor. of secs. 33 and 34, monumented with an iron post, 2 ins. diam., projecting 12 ins. above ground with brass cap mkd. as recorded in the official record. This corner is now an amended monument and is remarked to read: <div style="text-align: center;"> <p>A M T21N R5E S33 S34 1978 1941</p> </div>
48.62	Raise a mound of stone, 3 ft. base, 2 ft. high, W of cor. Intersect the Fifth Standard Parallel North. Point for the closing cor. of secs. 33 and 34. Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground with brass cap mkd. <div style="text-align: center;"> <p>C C T21N R5E S33 S34 S 3 T20N R5E 1978</p> </div>
Raise a mound of stone, 4 ft. base, 2 ft. high, N of the corner. Cor. is located on a SW slope, 15 lks. E of a side ravine draining NW.	
<hr/> Survey of the Subdivision of Section 33, T. 21 N., R. 5 E., Gila and Salt River Meridian, Arizona	
6.50	From the standard 1/4 sec. cor. of sec. 33, on the S bdy. of the Tp. N. 0°11' W., on the N and S center line of sec. 33. Asc. steep S slope. N rim of Volunteer Canyon; thence over rolling land through scattered timber.
28.01	Point for the center south 1/16 sec. cor. of sec. 33 at proportionate dist. Set an iron post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground with brass cap mkd.

Survey of the Subdivision of Section 33,
T. 21 N., R. 5 E., Gila & Salt River Mer., Arizona

CHAINS		
	<p style="text-align: center;">T21N R5E C S 1/16 S33 C 1978</p>	
	<p>from which</p> <p style="padding-left: 40px;">A ponderosa pine, 11 ins. diam., bears S. 31° W., 28 lks. dist. mkd. C-S 1/16 S33 BT.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, W of the cor.</p> <p>Cor. is located on a gentle NW slope.</p>	
48.03	<p>Point for the center 1/4 sec. cor. of sec. 33 at proportionate dist.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground with brass cap mkd.</p>	
	<p style="text-align: center;">T21N R5E C 1/4 S33 1978</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, W of the cor. and set a pine post, 6 ft. long, 3 ins. diam, with top squared alongside cor.</p> <p>Cor. is located on a gentle E slope, in an open grassy area about 15 chs. NW of Railroad Tank.</p>	
63.50	<p>Track road on top a low ridge bearing E and W.</p>	
88.07	<p>The 1/4 sec. cor. of secs. 28 and 33, monumented with an iron post, 1 in. diam., firmly set in a mound of stone, 3 ft. base to top with brass cap mkd. as recorded in the official record.</p> <p>from which the remains of the original bearing trees:</p> <p style="padding-left: 40px;">A snag pine, badly burned, bears N. 84 1/2° E., 17 lks. dist.</p> <p style="padding-left: 40px;">A burned stump, bears S. 54° E., 87 lks. dist.</p> <p style="padding-left: 40px;">A root hole, bears N. 81° W., 81 lks. dist.</p> <p>and from which the 1941 bearing trees:</p> <p style="padding-left: 40px;">A stump, 22 ins. diam., bears N. 43 1/4° E., 203 lks. dist., mkd. 28 BT under the overgrowth.</p> <p style="padding-left: 40px;">A pine, 21 ins. diam., bears S. 26 3/4° E., 39 lks. dist., mkd. with a healed blaze.</p> <p>and from which a new bearing tree:</p> <p style="padding-left: 40px;">A ponderosa pine, 5 ins. diam., bears N. 7 1/2° E., 32 lks. dist., mkd. 1/4 S28 BT.</p>	

Survey of the Subdivision of Section 33,
T. 21 N., R. 5 E., Gila & Salt River Mer., Arizona

CHAINS		
	remark the brass cap to read T21N R5E 1/4 $\frac{S28}{S33}$ 1978 1941	
	From the 1/4 sec. cor. of secs. 33 and 34. S. 89°19' W., on the E and W center line of sec. 33. Over rolling land with scattered timber.	
20.08	Point for the center east 1/16 sec. cor. of sec. 33. Set an iron post, 28 ins. long, 2 1/2 ins. diam., 10 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top with brass cap mkd. T21N R5E E 1/16 C ————— C S33 1978	
40.16	Cor. is located on a NE slope, 34 lks. S of a track road curving NE and SW. The center 1/4 sec. cor. of sec. 33.	
	<p style="text-align: center;">SE 1/4, Section 33</p> <hr style="width: 20%; margin: auto;"/>	
	From the standard E 1/16 sec. cor. of sec. 33, on the S bdy. of the sec.	
	N. 0°05' W., on the N and S center line of th SE 1/4 of sec. 33.	
0.21	Barbed wire fence bears E and W; ascend SW slope.	
3.50	Small spur, slopes W from SE; descend N slope.	
6.00	Bottom of Volunteer Canyon, drains W; ascend S slope.	
16.00	N rim of Volunteer Canyon; thence over rolling land with scattered timber.	
28.30	Point for the SE 1/16 sec. cor. of sec. 33 at the intersection with the E and W center line of the SE 1/4 of sec. 33. Set an iron post, 28 ins. long, 2 1/2 ins. diam., 19 ins. in the ground, surrounded by a collar of stone, 3 ft. base, to top, with brass cap mkd. T21N R5E SE 1/16 S33 1978	

Survey of the Subdivision of Section 33,
T. 21 N., R. 5 E., Gila & Salt River Mer., Arizona

CHAINS	<p>from which</p> <p style="padding-left: 40px;">A ponderosa pine, 10 ins. diam., bears N. 17° E., 62 lks. dist., mkd. SE 1/16 S33 BT.</p> <p style="padding-left: 40px;">A ponderosa pine, 7 ins. diam., bears S. 88 1/2° W., 97 lks. dist., mkd. SE 1/16 S33 BT.</p> <p>Cor. is located in scattered timber on a gentle NW slope.</p> <p>45.00 Ravine drains northeasterly.</p> <p>48.32 The center east 1/16 sec. cor. of sec. 33.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>From the S 1/16 sec. cor. of secs. 33 and 34.</p> <p>S. 89°19' W., on the E and W center line of the SE 1/4 of sec. 33.</p> <p>Over rolling land, through scattered timber.</p> <p>20.05 The SE 1/16 sec. cor. of sec. 33.</p> <p>40.10 The center south 1/16 sec. cor. of sec. 33.</p> <hr style="width: 80%; margin: 10px auto;"/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <p>This area is located about 15 miles SW of Flagstaff, Arizona. Sec. 33 is within the boundaries of the Navajo Ordinance Depot and access to the area is limited. The area supports good grass, ponderosa pine, fir, spruce and aspens. It abounds with deer, elk, turkeys and other wildlife.</p> <p>Drainage is southerly into Volunteer Canyon which eventually drains into the Verde River system. The elevation of sec. 33 varies from about 6500 in the canyon bottom to 7200 ft. in the NW 1/4 of the sec.</p> <p>There are numerous roads in the section, none of which are paved, but the access is limited to authorized personnel.</p>
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CERTIFICATE OF SURVEY

(I) ~~(We)~~, Jerrold E. Knight, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13th day of October, 1978, (I) ~~(We)~~ have dependently resurveyed a portion of the Fifth Standard Parallel North along the south boundary of Township 21 North, Range 5 East, and a portion of the subdivisional lines and surveyed the subdivision of section 33, in Township 21 North, Range 5 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.

1-04-79
(Date)

Jerrold E. Knight
(Cadastral Surveyor)
Jerrold E. Knight

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
~~Washington, D.C.~~
Denver, Colorado

The foregoing field notes of the dependent resurvey of a portion of the Fifth Standard Parallel North along the south boundary of Township 21 North, Range 5 East, and of a portion of the subdivisional lines and the survey of the subdivision of section 33 in T. 21 N., R. 5 E., Gila and Salt River Meridian, Arizona

executed by Jerrold E. Knight, Cadastral Surveyor having been critically examined and found correct, are hereby approved.

DEC 04 1979
(Date)

J. J. [Signature]
(Chief, Division of Cadastral Survey)
Chief, Cadastral Survey Examination and Approval Staff

~~CERTIFICATE OF TRANSCRIPT~~

I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in T. 21 N., R. 5 E., G&SRM., Arizona, is a true copy of the original field notes.

(Date)

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