

Form 9180-6
(April 1974)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

of the

Dependent Resurvey of a Portion of the

Subdivisional Lines

Township 5 North, Range 31 East

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Harry K. Smith

Cadastral Surveyor

Under special instructions dated May 4, 1977, approved May 4, 1977,

_____, which provided for the surveys included under U.S. Survey/Group
Number 596, and assignment instructions dated May 5, 1977.

Survey commenced June 10, 19 77

Survey completed June 17, 19 77

1A

INDEX DIAGRAM

Township 5 North, Range 31 East,

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	4 20	21	22	23	24
3	1				
30	29	28	27	26	25
31	32	33	34	35	36

1. B

Township 5 North, Range 31 East,
Gila and Salt River Meridian, Arizona

CHAINS

The east boundary was surveyed in 1875 by Chandler Robbins. The north, south and west boundaries, and the subdivisional lines were surveyed in 1883 by W. R. Fitzgerald. The east boundary was resurveyed in 1902 by William H. Thorn. A portion of the south and west boundaries were resurveyed by William B. Kimmel in 1913 and 1916. A portion of the subdivisional lines were resurveyed and sections 7, 16 and 17 were subdivided in 1965 by Leonard Murphy. A portion of the subdivisional lines were resurveyed and section 28 was subdivided in 1969 by Gary T. Oviatt.

The following field notes are those of a dependent resurvey of a portion of the subdivisional lines, Township 5 North, Range 31 East, Gila and Salt River Meridian, Arizona.

The survey was executed in accordance with specifications set forth in the Manual of Surveying Instructions 1973, and the Special Instructions for Group 596, Arizona, dated May 4, 1977.

The direction of the lines of this survey was determined by altitude observations on the sun and refer to the true meridian.

Prior to restoration of any corners, all necessary lines of the original survey were retraced and diligent search was made for any evidence of the original monuments and other calls of the official record. Lost corners were reestablished at proportionate positions, but not until exhausting every reasonable possibility of finding direct evidence of the control of each cor.

The geographic position of the SE corner of section 20, as scaled from the U. S. Geological Survey Quadrangle Map, "Alpine, Ariz.-N. Mex.", prepared in 1958, is as follows:

Latitude 33°48.4' N. Longitude 109°05.4' W.

The mean magnetic declination is 13°30' E.

Dependent Resurvey of a Portion of Subdivisional Lines,
T. 5 N., R. 31 E., Gila and Salt River Meridian, Arizona
(Restoring the 1883 survey by W. R. Fitzgerald)

Beginning at the cor. of secs. 20, 21, 28 and 29, monumented with an iron post, 2½ ins. diam., projecting 4 ins. above the ground, with brass cap mkd.

T5N R31E
S20|S21
S29|S28
1969

from which bearing trees mkd. in 1969

A pine, 8 ins. diam., bears N. 50¾° E., 38 lks.
dist., mkd. T5N R31E S21 BT.

Dependent Resurvey of a Portion of Subdivisional Lines,
T. 5 N., R. 31 E., Gila and Salt River Meridian, Arizona

CHAINS					
	<p>A pine, 9 ins. diam., bears S. $25\frac{1}{2}^{\circ}$ E., 40 lks. dist., mkd. T5N R31E S28 BT.</p> <p>A pine, 11 ins. diam., bears S. $34\frac{1}{2}^{\circ}$ W., 10 lks. dist., mkd. T5N R31E S29 BT.</p> <p>A pine, 11 ins. diam., bears N. $15\frac{1}{2}^{\circ}$ W., 6 lks. dist., mkd. T5N R31E S20 BT.</p> <p>Mound of stone, 2 ft. base, 1 ft. high, W. of the cor. N. $89^{\circ}58'$ W., bet. secs. 20 and 29.</p> <p>Over rolling land, through medium timber.</p>				
.70	Fence line, bears SE and NW.				
2.40	Power line, bears S. 35° E. and N. 35° W.				
9.10	Fence line, bears SE and NW.				
39.40	Logging road, bears NE and SW.				
39.58	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 20 and 29, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T5N R31E</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>$\frac{1}{4}$</td> <td>$\frac{S20}{S29}$</td> </tr> </table> <p>1977</p> </div> <p>from which</p> <p>A ponderosa pine, 8 ins. diam., bears N. $69\frac{1}{2}^{\circ}$ W., 35 lks. dist., mkd. $\frac{1}{4}$ S20 BT.</p> <p>A ponderosa pine, 8 ins. diam., bears S. $55\frac{3}{4}^{\circ}$ E., 75 lks. dist., mkd. $\frac{1}{4}$ S29 BT.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of the cor.</p>	$\frac{1}{4}$	$\frac{S20}{S29}$		
$\frac{1}{4}$	$\frac{S20}{S29}$				
79.16	<p>The cor. of secs. 19, 20, 29 and 30, monumented with a Forest Service aluminum pipe, $2\frac{1}{2}$ ins. diam., projecting 3 ins. above the ground. This cor. position was re-established by George Sohn, P.E. No. 2510 in 1976, using the double proportionate method which is acceptable to the Bureau of Land Management, and is within the allowable limits of error as set forth in the Manual of Surveying Instructions, 1973. This position is harmoniously related to existing original cors. and is accepted as the best available evidence of the original cor. position. The cap is mkd.</p> <div style="text-align: center;"> <p>T5N R31E</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>S19</td> <td>S20</td> </tr> <tr> <td>S30</td> <td>S29</td> </tr> </table> <p>1976</p> <p>P.E. 2510</p> </div>	S19	S20	S30	S29
S19	S20				
S30	S29				

Dependent Resurvey of a Portion of Subdivisional Lines,
T. 5 N., R. 31 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>from which bearing trees mkd. by George Sohn in 1976</p> <p>A ponderosa pine, 30 ins. diam., bears N. 61° E., 76 lks. dist., mkd. X BT.</p> <p>A ponderosa pine, 11 ins. diam., bears S. 25¼° E., 111.5 lks. dist., mkd. X BT.</p> <p>A ponderosa pine, 24 ins. diam., bears S. 59¼° W., 48 lks. dist., mkd. X BT.</p> <p>A ponderosa pine, 24 ins. diam., bears N. 53½° W., 58 lks. dist., mkd. X BT.</p> <p>From this point the standard cor. of secs. 31 and 32, on the S. bdy. of the Tp., bears S. 0°13' W., 158.42 chs. dist., monumented with a Forest Service aluminum pipe, 2½ ins. diam., projecting 6 ins. above ground. This cor. position was remonumented by George Sohn, P.E. No. 2510 in 1976. The cap is mkd.</p> <p style="text-align: center;">T5N R31E S C S31 S32 P.E. 2510 1976</p>
	<p>from which the remains of an original 1883 bearing tree</p> <p>The stump hole of an uprooted pine, bears N. 39¼° E., 48 lks. dist. The uprooted pine, 28 ins. diam., is mkd. T5N R31E S32 SC BT.</p>
	<p>from which bearing trees mkd. by George Sohn in 1976</p> <p>A fir, 10 ins. diam., bears N. 30° E., 59.5 lks. dist., mkd. T5N R31E S32 SC BT.</p> <p>A pine, 20 ins. diam., bears N. 42° W., 68.5 lks. dist., mkd. T5N R31E S31 SC BT.</p> <p>A mound of stone, 3 ft. base, 1 ft. high, is N. of the cor.</p> <p>The original cor., a lava stone, 14x7x5 ins., mkd. with 1 notch on one edge and 5 notches on the opposite edge, was found buried alongside the aluminum pipe.</p> <p>This control line was fully retraced and no evidence of the intervening cors. was found.</p>
	<p>From the cor. of secs. 19, 20, 29 and 30. N. 89°46' W., bet. secs. 19 and 30. Over rolling land, through dense timber.</p>
16.20	Road, bears S. 35° E. and N. 30° W.

Dependent Resurvey of a Portion of Subdivisional Lines,
T. 5 N., R. 31 E., Gila and Salt River Meridian, Arizona

CHAINS		
39.44	<p>The $\frac{1}{4}$ sec. cor. of secs. 19 and 30, monumented with a Forest Service aluminum pipe, $2\frac{1}{2}$ ins. diam., projecting 12 ins. above the ground, in a mound of stone, 2 ft. base to top. This cor. position was reestablished by George Sohn, P. E. No. 2510 in 1976, using a method acceptable to the Bureau of Land Management, and is within the allowable limits of error as set forth in the Manual of Surveying Instructions, 1973. This position is harmoniously related to existing orig. cors., and is accepted as the best available evidence of the orig. cor. position. The cap is mkd.</p> <p style="text-align: center;">T5N R31E $\frac{1}{4}$ $\frac{S19}{S30}$ 1976 P.E. 2510</p> <p>from which bearing trees mkd. by George Sohn in 1976</p> <p style="padding-left: 40px;">A pine, 10 ins. diam., bears S. $69\frac{1}{4}^\circ$ W., 40 lks. dist., mkd. X BT.</p> <p style="padding-left: 40px;">A pine, 10 ins. diam., bears N. $6\frac{1}{2}^\circ$ W., 67 lks. dist., mkd. X BT.</p> <p>From this point a spring, 2 ft. in diam., 6 ins. deep, flowing NE, bears N. $85^\circ 33'$ E., 13.44 chs. dist.</p> <hr style="width: 20%; margin: 20px auto;"/> <p>N. $89^\circ 43'$ W., beginning new measurement.</p>	
38.95	<p>The cor. of secs. 19, 24, 25 and 30, on the W. bdy. of the Tp., monumented with an iron post, $2\frac{1}{2}$ ins. diam., projecting 4 ins. above the ground, with brass cap mkd.</p> <p style="text-align: center;">T5N R30E R31E $\frac{S24}{S25} \frac{S19}{S30}$ 1969</p> <p>from which bearing trees mkd. in 1969</p> <p style="padding-left: 40px;">A fir, 10 ins. diam., bears N. $57\frac{3}{4}^\circ$ E., 38.5 lks. dist., mkd. T5N R31E S19 BT.</p> <p style="padding-left: 40px;">A fir, 9 ins. diam., bears S. 78° E., 42 lks. dist., mkd. T5N R31E S30 BT.</p> <p style="padding-left: 40px;">A fir, 12 ins. diam., bears S. $32\frac{3}{4}^\circ$ W., 33 lks. dist., mkd. T5N R30E S25 BT.</p> <p style="padding-left: 40px;">A fir, 9 ins. diam., bears N. $82\frac{1}{2}^\circ$ W., 26 lks. dist., mkd. T5N R30E S24 BT.</p> <p>Mound of stone, 2 ft. base, 1 ft. high, W. of the cor.</p>	
	<p>From the cor. of secs. 19, 20, 29 and 30.</p>	

Dependent Resurvey of a Portion of Subdivisional Lines,
T. 5 N., R. 31 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>N. 0°43' W., bet. secs. 19 and 20.</p>
	<p>Over rolling land, through dense timber.</p>
19.81	<p>Point for the S 1/16 sec. cor. of secs. 19 and 20.</p>
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">T5N R31E</p>
	<p style="text-align: center;">S 1/16</p>
	<p style="text-align: center;">S19 S20</p>
	<p style="text-align: center;"> </p>
	<p style="text-align: center;">1977</p>
	<p>from which</p>
	<p style="padding-left: 40px;">A pine, 9 ins. diam., bears N. 62½° E.,</p>
	<p style="padding-left: 80px;">99 lks. dist., mkd. S 1/16 S20 BT.</p>
	<p style="padding-left: 40px;">A pine, 14 ins. diam., bears S. 27½° E.,</p>
	<p style="padding-left: 80px;">48 lks. dist., mkd. X BT.</p>
	<p>Raise a mound of stone, 3 ft. base, 1 ft. high, W. of cor.</p>
	<p>From this point a local cor., reportedly set in 1959 by Frank S. Sherer, Registered Land Surveyor No. 2232, bears S. 26¼° W., 78.5 lks. dist., monumented with a re-bar, 3/8 in. diam., projecting 4 ins. above ground.</p>
22.30	<p>Fence line around golf course, bears N. 15° E. and S. 15° W.</p>
39.62	<p>Point for the ¼ sec. cor. of secs. 19 and 20 at proportionate dist.; there is no remaining evidence of the original cor.</p>
	<p>From the proportionate point, a local ¼ sec. cor. of secs. 19 and 20, bears N. 89°14' W., 60.3 lks. dist., monumented with a Forest Service aluminum pipe, 28 ins. long, 2½ ins. diam., projecting 2 ins. above ground. This cor. was set in 1976 by George Sohn, P. E. No. 2510. The cap is mkd.</p>
	<p style="text-align: center;">T5N R31E</p>
	<p style="text-align: center;">¼</p>
	<p style="text-align: center;">S19 S20</p>
	<p style="text-align: center;"> </p>
	<p style="text-align: center;">P.E. 2510</p>
	<p style="text-align: center;">1976</p>
	<p>The property survey plat recorded in August, 1976, by George Sohn, P. E. No. 2510, shows the ¼ sec. cor. of secs. 19 and 20 set at mid-point and on line bet. the cors. of secs. 17, 18, 19 and 20 and the cor. of secs. 19, 20, 29 & 30. However, on the ground, the monument was found off line. and not within the allowable limits of error as set forth in the Manual of Surveying Instructions, 1973. I contacted one of Mr. Sohn's employees and informed him of our differences. After</p>

Dependent Resurvey of a Portion of Subdivisional Lines,
T. 5 N., R. 31 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>making a field check, Mr. Sohn concurred with our findings.</p> <p>Mr. Sohn moved the above described monument to the proportionate cor. pt. previously described and set it 27 ins. in the ground.</p> <p>from which bearing trees mkd. by George Sohn in 1976</p> <p style="padding-left: 40px;">A ponderosa pine, 18 ins. diam., bears S. 46°52' E., 23.5 lks. dist., mkd. X BT.</p> <p style="padding-left: 40px;">A ponderosa pine, 16 ins. diam., bears S. 6° W., 106 lks. dist., mkd. X BT.</p> <p>The cor. is in a dirt road, bears N. 5° E. and S. 5° W.</p>
51.00	Power line, bears N. 65° E. and S. 65° W.
51.10	Road, bears N. 70° E. and S. 70° W.
55.60	Fence, bears N. 80° E. and S. 80° W.; leave golf course.
59.43	<p>Point for the N 1/16 sec. cor. of secs. 19 and 20.</p> <p>From this point, a local N 1/16 sec. cor. of secs. 19 and 20, bears N. 81°28' W., 02 lks. dist., monumented by a Forest Service aluminum pipe, 28 ins. long, 2½ ins. diam., projecting 6 ins. above ground. This cor. was set in 1976 by George Sohn, P. E. No. 2510. The cap is mkd.</p> <div style="text-align: center; padding: 10px 0;"> <p>N 1/16</p> <p>S19 S20</p> <p>1976</p> <p>P.E. 2510</p> </div> <p>The property survey plat recorded in August, 1976 by George Sohn, P. E. No. 2510, shows the N 1/16 sec. cor. of secs. 19 and 20, set on line bet. the ¼ sec. cor. of secs. 19 and 20 and the cor. of secs. 17, 18, 19 and 20. However on the ground this monument was found off line. I contacted one of Mr. Sohn's employees and informed him of our differences. After making a field check, Mr. Sohn concurred with our findings.</p> <p>Mr. Sohn moved the above described monument to the cor. pt. previously described and set it 22 ins. in the ground.</p> <p>From this point, a local cor. reportedly set in 1959 by Frank S. Sherer, Registered Land Surveyor No. 2232, bears S. 53½° W., 46 lks. dist., monumented with a re-bar, 3/8 in. diam., projecting 6 ins. above ground, with a steel fence post alongside. This re-bar is located 3 lks. East of a fence cor.; fences extend N. and W.</p>
65.90	Fence line, bears N. 35° E. and S. 35° W.

Dependent Resurvey of a Portion of Subdivisional Lines,
T. 5 N., R. 31 E., Gila and Salt River Meridian, Arizona

CHAINS	
79.24	<p>The cor. of secs. 17, 18, 19 and 20, monumented with an iron post, 2½ ins. in diam., projecting 6 ins. above the ground, with brass cap mkd.</p> <p style="text-align: center;">T5N R31E S18 S17 S19 S20 1965</p> <p>from which</p> <p>A ponderosa pine, 22 ins. diam., bears N. 77° E., 60 lks. dist., mkd. T5N R31E S17 BT.</p> <p>A ponderosa pine, 32 ins. diam., bears S. 31° W., 156 lks. dist., mkd. T5N R31E S19 BT. (Record S. 30° W., 159 lks.)</p> <p>A ponderosa pine, 28 ins. diam., bears S. 61½° W., 93 lks. dist., mkd. T5N R31E S19 BT. (Record S. 60¼° W.)</p> <p>A ponderosa pine, 28 ins. diam., bears N. 55½° W., 162 lks. dist., mkd. T5N R31E S18 X BT.</p> <p>Fence cor., bears S. 20° E., 8 lks. dist.; fences extend S. and E.</p> <p>Mound of stone, 3 ft. base, 1 ft. high, is W. of the cor.</p>
	<p style="text-align: center;">General Description</p> <p>The land encompassed in this survey is located about 4 miles SE of Alpine, Arizona. The general elevation ranges from about 8,000 to 9,200 feet above sea level. The soil is a sandy loam.</p> <p>Access is by way of a bladed road and a number of unimproved roads.</p> <p>The timber consist of ponderosa pine, fir, oak, juniper and aspen.</p> <p>Numerous improvements have been made within sections 19 and 20.</p> <p>There is no evidence of mining activity or minerals.</p> <p>The mean of a considerable number of observations of the magnetic declination is 13°30' E., with a range of 1° in local attraction.</p>

CHAINS	
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CERTIFICATE OF SURVEY

(I) ~~(W&X)~~ Harry K. Smith, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 4th day of May, 1977, (I) ~~(W&X)~~ have dependently resurveyed a portion of the subdivisional lines of Township 5 North, Range 31 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), ~~(X)~~ and under (my) ~~(X&X)~~ 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.

November 16, 1977
(Date)

Harry K. Smith
(Cadastral Surveyor)

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Washington, D.C.

The foregoing field notes of the dependent resurvey of a portion of the subdivisional lines of Township 5 North, Range 31 East, Gila and Salt River Meridian, Arizona,

executed by Harry K. Smith, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

APR 24 1978
(Date)

Bernard W. Zentgraf
(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