

BOOK 5149

R 5149

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# FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION

OF THE EAST BOUNDARY

AND A PORTION OF THE SUBDIVISIONAL LINES

TOWNSHIP 31 NORTH, RANGE 18 EAST

Of the GILA AND SALT RIVER Meridian,

In the State of ARIZONA

## EXECUTED BY

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Under special instructions dated JULY 1, 19 77, approved JULY 14, 1977,

AND SUPPLEMENTAL SPECIAL INSTRUCTIONS DATED FEBRUARY 24, 1978, APPROVED

MARCH 6, 1978, which provided for the surveys included under ~~XXXXXX~~ Group

Number 594, and assignment instructions dated MAY 2, 19 77.

Survey commenced AUGUST 1, 19 78

Survey completed FEBRUARY 20, 19 81

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## T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

## CHAINS

The following field notes are those of the dependent re-survey of a portion of the east boundary, and a portion of the subdivisional lines, Township 31 North, Range 18 East, Gila and Salt River Meridian, Arizona.

The south boundary was surveyed by Sidney E. Blout in 1909. The north, east, and west boundaries and the subdivisional lines were surveyed by Van L. White in 1911, as shown on the official plat approved April 25, 1914. A portion of the west boundary was resurveyed in Township 31 North, Range 17 East, concurrently under this same group.

These surveys were executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, the Special Instructions dated July 1, 1977, and the Supplemental Special Instructions dated February 24, 1978, for Group No. 594, Arizona.

Preliminary to the resurvey, the lines of the original survey were retraced and search was made for all corners and other calls of the official 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 direct altitude observations of the sun and Polaris, and refer to the true meridian.

The geographic position of the corner of sections 1, 6, 31 and 36, Townships 30 and 31 North, Ranges 18 and 19 East, as determined from a direct tie to the corner of sections 1, 6, 7, and 12, Township 30 North, Ranges 18 and 19 East, identical with U.S. Geological Survey triangulation station "SEC COR 1/30N/18E," is:

Latitude 36° 02' 29.3" N., Longitude 110° 20' 54.7" W.

The mean magnetic declination is 13 1/2° E.

Dependent Resurvey of a Portion of the East Boundary  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

Restoring the survey  
executed by Van L. White in 1911

The cor. of Tps. 30 and 31 N., Rs. 18 and 19 E., is determined at record bearing and distance from the remains of the original bearing trees

A dead juniper, 14 ins. diam., bears N. 87° E.,  
125 lks. dist., no mks. visible.

A juniper, 20 ins. diam., bears S. 17½° E.,  
51 lks. dist., mkd. T30N R19E S6 BT.

A juniper, 16 ins. diam., bears S. 26½° W.,  
29 lks. dist., mkd. BT, no other marks visible.

A juniper stump, 14 ins. diam., bears N. 9½° W.,  
137 lks. dist., no mks. visible.

Dependent Resurvey of a Portion of the East Boundary  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T31N	
R18E	R19E
S 36	S 31
S 1	S 6
T30N	

1978

from which new bearing trees

A juniper, 10 ins. diam., bears N. 24° E., 198 lks. dist., mkd. T31N R19E S31 BT.

A juniper, 11 ins. diam., bears S. 71° W., 67 lks. dist., mkd. T30N R18E S1 BT.

A juniper, 10 ins. diam., bears N. 58° W., 94 lks. dist., mkd. T31N R18E S36 BT.

From this cor. the cor. of secs. 1, 6, 7, and 12, T. 30 N., Rs. 18 and 19 E., identical with USGS triangulation station "SEC COR 1/30N/18E", monumented with an iron post, 3 ins. diam., firmly set, projecting 18 ins. above ground, with brass cap mkd. as described in the original survey, bears S. 0° 04' E., 79.99 chs. dist.

Add the date 1978 to the brass cap.

N. 0° 02' W., bet. secs. 31 and 36.

Over broken terrain, through scattered pinon and juniper timber.

11.81 AP C-244, on the Hopi-Navajo Partition line, monumented with an iron post, 2½ ins. diam., firmly set, projecting 2 ins. above ground, in concrete, with a steel fence post alongside, as described in the survey of the Hopi-Navajo Partition line, Segment "C", executed concurrently under this same group.

40.02 The 1/4 sec. cor. of secs. 31 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. as described in the official record of the original survey. Add the marks T31N R18E R19E 78; the brass cap is now mkd.

T31N	
R18E	R19E
S 36 ¼	S 31

78  
1911

from which

A juniper, 20 ins. diam., bears S. 51 3/4° E., 150 lks. dist., mkd. 1/4 S31 BT.

Dependent Resurvey of a Portion of the East Boundary  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS	
	<p>A juniper, 12 ins. diam., bears N. 9 3/4° W., 377 lks. dist., mkd. 1/4 S36 BT.</p>
	<p>Dependent Resurvey, Portion of the Subdivisional Lines T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona</p>
	<p style="text-align: center;">Restoring the survey executed by Van L. White in 1911</p> <hr/> <p>From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., monumented with an iron post, 3 ins. diam., firmly set, projecting 6 ins. above ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>R18E T31N T30N S 36   S 1 S 35   S 2</p> </div> <p>Add the date 1978 to the brass cap.</p> <p>N. 0° 01' W., bet. secs. 35 and 36.</p> <p>Over nearly level terrain.</p> <p>11.51 Point for AP C-246A, on the Hopi-Navajo Partition line; not monumented.</p> <p>39.01 Point selected for the witness 1/4 sec. cor. of secs. 35 and 36.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>W C T31N R18E 1/4 S 35   S 36</p> <p>1978</p> </div> <p>Set a wooden fence post alongside the cor.</p> <p>40.01 True point for the 1/4 sec. cor. of secs. 35 and 36, at proportionate distance; there is no remaining evidence of the original cor. The cor. point falls in a wash where it is impracticable to establish a permanent monument.</p> <p>80.02 The cor. of secs. 25, 26, 35 and 36 is determined at record bearing and dist. from the original bearing trees</p> <p>A juniper, 10 ins. diam., bears N. 29 1/2° E., 160 lks. dist., mkd. T31N R18E S25 BT.</p> <p>A juniper, 12 ins. diam., bears S. 68 3/4° E., 258 lks. dist., mkd. T31N R18E S36 BT.</p>

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS

A pinon, 14 ins. diam., bears S.  $23\frac{1}{4}^\circ$  W., 333  
lks. dist., mkd. T31N R18E S35 BT.

A juniper, 16 ins. diam., bears N.  $72\frac{1}{2}^\circ$  W.,  
101 lks. dist., mkd. T31N R18E S26 BT.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins.  
in the ground, with brass cap mkd.

T31N R18E	
S 26   S 25	
S 35   S 36	

1978

This cor. is located at the W. edge of a small clearing.

From the cor. of secs. 2, 3, 34 and 35, on the S. bdy.  
of the Tp., monumented with an iron post, 3 ins. diam.,  
firmly set, projecting 10 ins. above the ground, with  
brass cap mkd.

S 34   S 3
S 35   S 2
T31N R18E
T30N

Add the date 1978 to the brass cap.

from which the original bearing trees

A juniper, 20 ins. diam., bears N.  $42\frac{1}{2}^\circ$  E., 61  
lks. dist., mkd. T31N R18E S35 BT.

A juniper, 12 ins. diam., bears S.  $34\frac{1}{2}^\circ$  E., 120  
lks. dist., mkd. with a blaze, no other marks  
visible.

A juniper, 16 ins. diam., bears S.  $29^\circ$  W., 97  
lks. dist., mkd. T30N R18E S3 BT.

A pinon stump, 12 ins. diam., bears N.  $69^\circ$  W.,  
143 lks. dist., no visible markings.

from which a new bearing tree

A juniper, 12 ins. diam., bears N.  $58^\circ$  W., 102  
lks. dist., mkd. T31N R18E S34 BT.

N.  $0^\circ 02'$  W., bet. secs. 34 and 35.

Over broken terrain.

11.26 AP C-248, on the Hopi-Navajo Partition line, monumented  
with a brass tablet, firmly set in drill hole, flush  
with rock surface, with top mkd., as described in the  
survey of the Hopi-Navajo Partition line, Segment "C",  
executed concurrently under this same group.

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS	
39.91	<p>The 1/4 sec. cor. of secs. 34 and 35, monumented with a cedar post, 4 ins. diam., projecting 6 ins. above the ground, firmly set, encircled with a collar of stone, mkd. 1/4 S34 on the W. side and S35 on the E. side, from which the original bearing trees</p> <p style="padding-left: 40px;">A juniper, 20 ins. diam., bears N. 72½° E., 76 lks. dist., mkd. 1/4 S35 BT.</p> <p style="padding-left: 40px;">A juniper, 20 ins. diam., bears N. 27° W., 152 lks. dist., mkd. 1/4 S34 BT.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock, supported in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T31N R18E ¼ S 34   S 35</p> <p style="text-align: center;">1978</p> <p>Deposit the cedar post alongside the iron post.</p>
	<p>From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., monumented with an iron post, 3 ins. in diam., firmly set, projecting 18 ins. above ground, with brass cap mkd.</p> <p style="text-align: center;">R18E T31N T30N S 34   S 3 S 33   S 4</p> <p>Add the date 1978 to the brass cap.</p> <p>N. 0° 04' W., bet. secs. 33 and 34.</p> <p>Over nearly level open prairie.</p>
10.97	<p>AP C-250, on the Hopi-Navajo Partition line, monumented with an iron post, 2½ ins. diam., firmly set, projecting 4 ins. above the ground in concrete, with a steel fence post alongside, with brass cap mkd. as described in the survey of the Hopi-Navajo Partition line, Segment "C", executed concurrently under this same group.</p>
40.02	<p>The 1/4 sec. cor. of secs. 33 and 34, identical with AP C-251, on the Hopi-Navajo Partition line, monumented with a cedar post, 4 ins. diam., firmly set, projecting 8 ins. above ground, mkd. 1/4 S33 on W. side and S34 on E. side, from which the original bearing trees</p> <p style="padding-left: 40px;">A juniper, 16 ins. diam., bears S. 33° E., 14 lks. dist., mkd. T31N R18E S34 BT. (Record bearing: S. 36½° E.)</p> <p style="padding-left: 40px;">A juniper, 20 ins. diam., bears S. 51½° W., 83 lks. dist., mkd. T31N R18E S33 BT.</p> <p>At the corner point</p>

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd.

T31N R18E

¼  
HOPI | NAVAJO  
S 33 | S 34  
AP C-251

1978

Set a steel fence post and bury cedar post alongside the cor.

N. 0° 04' W., beginning new measurement.

40.01 The cor. of secs. 27, 28, 33 and 34, identical with AP C-252, on the Hopi-Navajo Partition line, at proportionate distance; there is no remaining evidence of the original cor.

Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, in concrete, with brass cap mkd.

T31N R18E

S 28 | S 27  
S 33 | S 34  
HOPI | NAVAJO  
AP C-252

1978

From the ¼ sec. cor. of secs. 27 and 34, determined at record bearing and distance from the original bearing trees

A juniper, 10 ins. diam., bears S. 18° W., 56 lks. dist., mkd. ¼ S34 BT.

A juniper, 10 ins. diam., bears N. 5° W., 73 lks. dist., mkd. ¼ S27 BT.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T31N R18E

¼ S 27  
S 34

1978

from which a new bearing tree

A juniper, 19 ins. diam., bears N. 33½° E., 51 lks. dist., mkd. ¼ S27 BT.

Set a steel fence post alongside the cor.

N. 89° 43' W., bet. secs. 27 and 34.

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS									
39.90	<p>Over rolling prairie.</p> <p>The cor. of secs. 27, 28, 33 and 34.</p>								
40.01	<p>N. 0° 04' W., bet. secs. 27 and 28.</p> <p>Over rolling prairie, through scattered juniper and pinon timber.</p> <p>The 1/4 sec. cor. of secs. 27 and 28, identical with AP C-253, on the Hopi-Navajo Partition line, monumented with a cedar post, 3 ins. diam., firmly set, projecting 8 ins. above ground, mkd. 1/4 S28 on W. side and S27 on E. side, from which the remains of the original bearing trees</p> <p style="padding-left: 40px;">A juniper stump, 16 ins. diam., bears N. 87 3/4° E., 40 lks. dist., no mks. visible.</p> <p style="padding-left: 40px;">A juniper stump, 14 ins. diam., bears S. 27 3/4° W., 48 lks. dist., no mks. visible.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd.</p> <div style="text-align: center; padding: 10px 0;"> <p>T31N R18E</p> <p style="margin-left: 40px;">1/4</p> <table style="margin-left: 40px; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S 28</td> <td style="padding: 0 5px;">S 27</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">HOPI</td> <td style="padding: 0 5px;">NAVAJO</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;"></td> <td style="padding: 0 5px;">AP C-253</td> </tr> </table> <p>1978</p> </div> <p>from which new bearing trees</p> <p style="padding-left: 40px;">A juniper, 8 ins. diam., bears S. 86° E., 39 lks. dist., mkd. 1/4 S27 BT.</p> <p style="padding-left: 40px;">A juniper, 12 ins. diam., bears S. 59 1/2° W., 59 1/2 lks. dist., mkd. 1/4 S28 BT.</p> <p>Deposit cedar post and set a steel fence post alongside the cor.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>N. 0° 05' W., beginning new measurement.</p>	S 28	S 27	HOPI	NAVAJO		AP C-253		
S 28	S 27								
HOPI	NAVAJO								
	AP C-253								
40.05	<p>Point for the cor. of secs. 21, 22, 27 and 28, identical with AP C-254, on the Hopi-Navajo Partition line, at proportionate distance; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd.</p> <div style="text-align: center; padding: 10px 0;"> <p>T31N R18E</p> <p style="margin-left: 40px;">NAVAJO</p> <table style="margin-left: 40px; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S 21</td> <td style="padding: 0 5px;">S 22</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S 28</td> <td style="padding: 0 5px;">S 27</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">HOPI</td> <td style="padding: 0 5px;"></td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;"></td> <td style="padding: 0 5px;">AP C-254</td> </tr> </table> <p>1978</p> </div>	S 21	S 22	S 28	S 27	HOPI			AP C-254
S 21	S 22								
S 28	S 27								
HOPI									
	AP C-254								

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS

Set a steel fence post alongside the cor.

From this cor. the 1/4 sec. cor. of secs. 23 and 26, bears S. 88° 56' E., 119.74 chs. dist., monumented with a cedar post, 3 ins. diam., firmly set, projecting 10 ins. above ground, mkd. 1/4 S23 on N. side, S26 on S. side, from which the original bearing trees

A pinon, 12 ins. diam., bears N. 45¼° E., 36 lks. dist., mkd. 1/4 S23 BT.

A dead pinon, 12 ins. diam., bears S. 6 3/4° E., 72 lks. dist., mkd. 1/4 S26 BT.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T31N R18E  
¼ S 23  
S 26

1978

from which a new bearing tree

A juniper, 20 ins. diam., bears S. 33¼° E., 76 lks. dist., mkd. 1/4 S26 BT.

Deposit the cedar post alongside the cor.

This control line was fully retraced and careful search was made for any evidence of intervening corners, none of which was recovered.

N. 0° 04' W., bet. secs. 21 and 22.

Over rolling prairie, through scattered pinon and juniper timber.

40.05 Point for the 1/4 sec. cor. of secs. 21 and 22, at proportionate distance; there is no remaining evidence of the original cor.

Set an iron post, 28 ins. long, 2½ ins. diam., 8 ins. below surface of ground, with brass cap mkd.

T31N R18E  
¼ S 21 | S 22

1978

from which

A juniper fence cor. post, 9 ft. high, 9 ins. diam., bears N. 31° W., 149 lks. dist., mkd. 1/4 S21 B0.

A juniper fence cor. post, 9 ft. high, 6 ins. diam., bears N. 71° W., 307½ lks. dist., mkd. 1/4 S21 B0.

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS	
80.10	<p>The cor. of secs. 15, 16, 21 and 22, determined at record bearing and distance from the original bearing trees</p> <p>A juniper, 14 ins. diam., bears S. 57¼° W., 82 lks. dist., no mks. visible.</p> <p>The root crown of a pinon, size indeterminate, bears N. 52¼° W., 366 lks. dist.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 10 ins. in the ground, to bedrock, supported in a mound of stone, 3½ ft. base to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T31N R18E S 16   S 15 S 21   S 22</p> <p>1978</p> </div> <p>from which a new bearing tree</p> <p>A juniper limb, 9 ins. diam., bears N. 43° W., 240½ lks. dist., mkd. T31N R18E BT.</p>
39.98	<p>From the cor. of secs. 27, 28, 33 and 34.</p> <p>N. 89° 56' W., bet. secs. 28 and 33.</p> <p>Over rolling prairie.</p> <p>The 1/4 sec. cor. of secs. 28 and 33, monumented with a mound of stone, 3 ft. base, 1 ft. high, with a cedar post, 4 ins. diam., lying loose next to the mound. This position is harmoniously related to existing original cors. and is accepted as the best available evidence of the original cor. position.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 10 ins. in the ground, to bedrock, supported in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T31N R18E ¼ S 28 S 33</p> <p>1978</p> </div> <p>Deposit cedar post in mound of stone and set a steel fence post alongside the cor.</p>
	<p>From the cor. of secs. 21, 22, 27 and 28.</p> <p>N. 89° 54' W., bet. secs. 21 and 28.</p> <p>Over open prairie, through scattered pinon and juniper timber.</p>

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS		
39.94	<p>The 1/4 sec. cor. of secs. 21 and 28, identical with AP C-255, on the Hopi-Navajo Partition line, monumented with a cedar post, 4 ins. diam., firmly set, projecting 6 ins. above ground, mkd. 1/4 S on N. side, and S on S. side.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd.</p> <p style="text-align: center;">T31N R18E NAVAJO 1/4 S 21           S 28 HOPI AP C-255</p> <p style="text-align: center;">1978</p> <p>from which</p> <p style="padding-left: 40px;">A juniper, 12 ins. diam., bears S. 62° W., 266 lks. dist., mkd. 1/4 S28 BT.</p> <p style="padding-left: 40px;">A juniper, 14 ins. diam., bears N. 71° W., 248 lks. dist., mkd. 1/4 S21 BT.</p> <p>Deposit the cedar post and set a steel fence post alongside the cor.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>WEST, beginning new measurement.</p>	
39.95	<p>The cor. of secs. 20, 21, 28 and 29, identical with AP C-256, on the Hopi-Navajo Partition line, monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. as described in the official record of the 1911 survey. Add the marks HOPI NAVAJO AP C-256 78; the brass cap is now mkd.</p> <p style="text-align: center;">T31N R18E NAVAJO S 20   S 21 S 29   S 28 HOPI AP C-256</p> <p style="text-align: center;">78 1911</p> <p>Surround the iron post with concrete and set a steel fence post alongside the cor.</p>	
	<p>From the cor. of secs. 16, 17, 20 and 21, monumented with an iron post, 2 ins. diam., firmly set, projecting 6 ins. above ground, with brass cap mkd.</p> <p style="text-align: center;">T31N R18E S 17   S 16 S 20   S 21</p> <p style="text-align: center;">1911</p>	

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

	CHAINS		
		<p>Add the date 78 to the brass cap.</p> <p>from which</p> <p>A juniper, 12 ins. diam., bears N. 64° E., 179 lks. dist., mkd. T31N R18E S16 BT.</p> <p>A juniper, 6 ins. diam., bears S. 57° W., 237 lks. dist., mkd. T31N R18E S20 BT.</p> <p>A juniper, 10 ins. diam., bears N. 50° W., 229 lks. dist., mkd. T31N R18E S17 BT.</p> <p>Raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor.</p> <p>N. 0° 10' W., bet. secs. 16 and 17.</p> <p>Over open rolling prairie, between hogans.</p>	
	40.02	<p>Point for the 1/4 sec. cor. of secs. 16 and 17 at proportionate distance; there is no remaining evidence of the original cor.</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;">T31N R18E ¼ S 17   S 16</p> <p style="text-align: center;">1978</p>	
	80.04	<p>Set a steel fence post alongside the cor.</p> <p>The cor. of secs. 8, 9, 16 and 17, monumented with an iron post, 2 ins. diam., 3 ins. below the surface of the ground, with brass cap mkd.</p>	
		<p style="text-align: center;">T31N R18E S 8   S 9 S 17   S 16</p> <p style="text-align: center;">1911</p>	
		<p>Add the date 78 to the brass cap, and set a steel fence post alongside the cor.</p> <p>From this cor., the 1/4 sec. cor. of secs. 4 and 5, bears N. 0° 13' W., 120.08 chs. dist., monumented with a cedar post, 3 ins. diam., firmly set, projecting 4 ins. above the ground, in a mound of stone, 3½ ft. base, 2 ft. high, mkd. S4 on E. side and no mks. visible on W. side, from which the original bearing trees</p> <p>A juniper, 12 ins. diam., bears S. 71½° W., 80 lks. dist., mkd. 1/4 S4 BT.</p> <p>A juniper, 18 ins. diam., bears N. 42½° W., 43 lks. dist., mkd. 1/4 S5 BT. (Record bearing: N. 48 3/4° W.)</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p>	

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS	
39.93	<p style="text-align: center;">T31N R18E <math>\frac{1}{4}</math> S 5   S 4</p> <p style="text-align: center;">1978</p> <p>Deposit the cedar post and set a steel fence post alongside the cor.</p> <p>For the purpose of substantiating the cor. of secs. 8, 9, 16, and 17, the control line was fully retraced and careful search was made for any evidence of intervening corners, none of which was recovered.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 9 and 16, monumented with a cedar post, 4 ins. diam., firmly set, projecting 10 ins. above ground, in a scattered mound of stone, mkd. 1/4 S9 on N. side and S16 on S. side.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T31N R18E <math>\frac{1}{4}</math> <math>\frac{S 9}{S 16}</math></p> <p style="text-align: center;">1978</p> <p>from which</p> <p style="padding-left: 40px;">A juniper, 4 ins. diam., bears S. 16° E., 225½ lks. dist., mkd. 1/4 S16 BT.</p> <p>Deposit the cedar post alongside the cor., and raise a mound of stone, 3 ft. base, 1½ ft. high, N. of the cor.</p> <p>Set a steel fence post alongside the cor.</p> <p>N. 89° 56' W., bet. secs. 9 and 16.</p> <p>Over rolling prairie, through scattered timber and brush.</p> <p>The cor. of secs. 8, 9, 16 and 17.</p>
27.24	<p>From the cor. of secs. 20, 21, 28 and 29, identical with AP C-256, on the Hopi-Navajo Partition line.</p> <p>S. 89° 59' W., bet. secs. 20 and 29.</p> <p>Over open, nearly level prairie.</p>
39.93	<p>AP C-257, on the Hopi-Navajo Partition line, monumented with a copper-coated steel stake, 1/2 in. diam., 6 ins. below the surface of a trail road, with brass cap, 1½ ins. diam., mkd. as described in the survey of the Hopi-Navajo Partition line, Segment "C", executed concurrently under this same group.</p>
39.93	<p>The 1/4 sec. cor. of secs. 20 and 29, monumented with a cedar post, 4 ins. diam., firmly set, projecting 9 ins. above ground, mkd. 1/4 S20 on N. side, and S29 on S. side.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 27 ins. in the ground, with brass cap mkd.</p>

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CHAINS	
27.16	<p style="text-align: center;">T31N R18E <math>\frac{1}{4} \frac{S 20}{S 29}</math> 1978</p> <p>Deposit the cedar post and set a steel fence post alongside the cor.</p> <hr/> <p>From the cor. of secs. 16, 17, 20 and 21. N. 89° 57' W., bet. secs. 17 and 20. Over open rolling prairie.</p> <p>AP C-259, on the Hopi-Navajo Partition line, monumented with an iron post, 2½ ins. diam., firmly set, projecting 4 ins. above the ground, in concrete, with a steel fence post alongside, as described in the survey of the Hopi-Navajo Partition line, executed concurrently under this same group.</p>
39.98	<p>Point for the 1/4 sec. cor. of secs. 17 and 20 at proportionate distance; there is no remaining evidence of the original cor.</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;">T31N R18E <math>\frac{1}{4} \frac{S 17}{S 20}</math> 1978</p> <p>Set a steel fence post alongside the corner.</p>
79.96	<p>The cor. of secs. 17, 18, 19 and 20, monumented with an iron post, 2 ins. diam., firmly set, projecting 6 ins. above ground, with brass cap mkd.</p> <p style="text-align: center;">T31N R18E <math>\frac{S 18   S 17}{S 19   S 20}</math> 1911</p> <p>Add the date 78 to the brass cap and set a steel fence post alongside the cor.</p>
40.05	<p>N. 0° 07' W., bet. secs. 17 and 18. Over open, nearly level prairie.</p> <p>Point for the 1/4 sec. cor. of secs. 17 and 18 at proportionate distance; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p>

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CHAINS	
80.10	<p style="text-align: center;">T31N R18E  <math>\frac{1}{4}</math>                      S 18   S 17                      1978</p> <p>Set a steel fence post alongside the cor.</p> <p>The cor. of secs. 7, 8, 17 and 18, identical with AP C-263, on the Hopi-Navajo Partition line, at proportionate distance; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd.</p> <p style="text-align: center;">T31N R18E                      NAVAJO                      S 7   S 8                      S 18   S 17                      AP C-263                      HOPI                      1978</p> <p>Set a steel fence post alongside the cor.</p>
26.92  39.94	<p>From the cor. of secs. 8, 9, 16 and 17.</p> <p>N. 89° 58' W., bet. secs. 8 and 17.</p> <p>Over gently rolling prairie.</p> <p>AP C-261, on the Hopi-Navajo Partition line, monumented with an iron post, 2½ ins. diam., firmly set, projecting 4 ins. above the ground, in concrete, with a steel fence post alongside, as described in the survey of the Hopi-Navajo Partition line, Segment "C", executed concurrently under this same group.</p> <p>The 1/4 sec. cor. of secs. 8 and 17, identical with AP C-262, on the Hopi-Navajo Partition line, monumented with a cedar post, 3 ins. diam., firmly set, projecting 12 ins. above ground, mkd. 1/4 S8 on N. side and no mks. visible on S. side.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd.</p> <p style="text-align: center;">T31N R18E                      S 8  <math>\frac{1}{4}</math> NAVAJO                      AP C-262                      HOPI                      S 17                      1978</p> <p>Deposit the cedar post and set a steel fence post alongside the cor.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 89° 53' W., beginning new measurement.</p>

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

CHAINS	
39.97	<p>The cor. of secs. 7, 8, 17 and 18, identical with AP C-263, on the Hopi-Navajo Partition line.</p>
40.06	<p>N. 89° 49' W., bet. secs. 7 and 18.</p> <p>Over nearly level terrain, through dense brush.</p> <p>Point for the 1/4 sec. cor. of secs. 7 and 18, identical with AP C-264, on the Hopi-Navajo Partition line, at proportionate distance; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd.</p> <p style="text-align: center;">T31N R18E NAVAJO ¼ <math>\frac{S\ 7}{S\ 18}</math> HOPI AP C-264  1978</p> <p>Set a steel fence post alongside the iron post.</p>
78.41	<p>The cor. of secs. 7, 12, 13 and 18, on the W. bdy. of the Tp., identical with AP C-265, on the Hopi-Navajo Partition line, monumented with an iron post, 3 ins. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. as described in the dependent resurvey of the E. bdy., T. 31 N., R. 17 E., executed concurrently under this same group.</p>
40.04	<p>From the cor. of secs. 7, 8, 17 and 18, identical with AP C-263, on the Hopi-Navajo Partition line.</p> <p>N. 0° 08' W., bet. secs. 7 and 8.</p> <p>Over open rolling terrain.</p> <p>The 1/4 sec. cor. of secs. 7 and 8, monumented with a cedar post, 3 ins. diam., firmly set, projecting 8 ins. above ground, mkd. 1/4 S7 on W. side, and S on E. side.</p> <p>At the corner point</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;">T31N R18E ¼ S 7   S 8  1978</p>

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 18 E., Gila and Salt River Mer., Arizona

## CHAINS

Deposit the cedar post and set a steel fence post alongside the cor.

## General Description

The land encompassed in this survey is located approximately 10 miles west of Pinon, Arizona and 1/2 mile east of Hard Rocks, Arizona. Elevation ranges from 5950 feet in the west half to 6400 feet above sea level in the east half. The soil is sandy and stoney. The vegetation consists of native grasses and weeds in the western area and dense pinon and juniper timber in the eastern half.

Access to the area consists of trail roads leading in several directions out of Hard Rocks and a secondary road leading out of Pinon, Arizona from which trail roads branch in several directions.

An average of the readings throughout the area resurveyed gives a mean magnetic declination of  $13\ 1/2^\circ$  East, with no noticeable difference due to local attraction.

Form 9600-11  
(August 1979)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Timothy G. VanLoon	Surveying Aid
Ervin Begay	Surveying Aid
Robert E. Butler	Surveying Aid
Everett E. Gorgen	Surveying Aid
Gerald L. Hodgson	Surveying Aid
Robert L. Clark	Surveying Aid

CERTIFICATE OF SURVEY

Koppang

~~XX~~ (We), Kenneth A. Krenke, Shirley B. Hjellum and Marvin T. \_\_\_\_\_, HEREBY  
 CERTIFY upon honor that, in pursuance of special instructions bearing date of the 1st day  
 of July \_\_\_\_\_, 1977, ~~XXXXXX~~ and Supplemental Special Instructions  
 dated February 24, 1978, (We) have dependently resurveyed a portion of the  
 east boundary and a portion of the subdivisional lines, Township 31 North,  
 Range 18 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 ~~XXX~~, (us) and under ~~XXXX~~  
 (our) direction; and that said survey has been made in strict conformity with said special instruc-  
 tions, 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.

Kenneth A. Krenke and Marvin T. Koppang are no longer employees of the  
 Bureau of Land Management and could not be reached to sign this Certificate  
 of Survey.

\_\_\_\_\_  
 April 14, 1981  
 (Date)

*Paul D. Dennis*  
 \_\_\_\_\_  
~~XXXXXXXXXXXX~~  
 Chief, Branch of Cadastral Survey

\_\_\_\_\_  
 April 14, 1981  
 (Date)

*Shirley B. Hjellum*  
 \_\_\_\_\_  
 Supervisory (Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
 Denver, Colorado

The foregoing field notes of the dependent resurvey of a portion of the east bound-  
 ary and a portion of the subdivisional lines, Township 31 North, Range 18  
 East, of the Gila and Salt River Meridian, Arizona,

executed by Kenneth A. Krenke and Shirley B. Hjellum, Supervisory Cadastral  
 Surveyors, and Marvin T. Koppang, Cadastral Surveyor  
 having been critically examined and found correct, are hereby approved.

\_\_\_\_\_  
 SEP 17 1981  
 (Date)

*Mary S. Speight*  
 \_\_\_\_\_  
 ACTING (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  
 \_\_\_\_\_, is a true copy of the original field notes.

\_\_\_\_\_  
 (Date)

\_\_\_\_\_  
 (Chief, Cadastral Survey Examination and Approval Staff)