



# INDEX DIAGRAM

Township 31 NORTH, Range 16 EAST,

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T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

## CHAINS

The following field notes describe the dependent resurvey of portions of the south and north boundaries and a portion of the subdivisional lines, Township 31 North, Range 16 East, Gila and Salt River Meridian, Arizona.

The south boundary was surveyed in 1909 by Sidney E. Blout. The north, west and east (Fourth Guide Meridian East) boundaries and the subdivisional lines were surveyed in 1911, by Van L. White.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, the Special Instructions dated July 1, 1977, and Supplemental Special Instructions dated February 24, 1978.

Preliminary to the resurvey, the lines of the original survey 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 direction 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 9, 10, 15 and 16, identical with AP D-14, Hopi-Navajo Partition line, determined by a direct tie to U.S. Coast and Geodetic Survey triangulation station "ROCKY" is as follows:

Latitude 36° 05' 58.2" N., Longitude 110° 36' 24.0" W.

The mean magnetic declination was found to be 13 1/2° E.

Dependent Resurvey of a Portion of the South Boundary  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

Restoring the survey  
executed by Sidney E. Blout in 1909

Beginning at the cor. of Tps. 30 and 31 N., Rs. 16 and 17 E., identical with AP C-300, on the Hopi-Navajo Partition line, monumented with an iron post, 3 ins. diam., firmly set, projecting 10 ins. above ground, with brass cap missing, from which a 1909 bearing tree

A juniper, 6 ins. diam., bears S. 88° W., 136 lks. dist., mkd. T30N R16E S1 BT.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 16 ins. in the ground, to bedrock, cemented in a mound of stone, 2½ ft. base to top, with brass cap mkd.

T31N  
R16E R17E  
NAVAJO  
S 36 | S 31  
S 1 | S 6  
AP C-300  
HOPI  
T30N

1979

Dependent Resurvey of a Portion of the South Boundary  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

CHAINS																		
	<p>from which new bearing trees</p> <p>A juniper, 6 ins. diam., bears N. 46° E., 149 lks. dist., mkd. T31N R17E S31 BT.</p> <p>A juniper, 5 ins. diam., bears S. 52° E., 68½ lks. dist., mkd. T30N R17E S6 BT.</p> <p>A juniper, 10 ins. diam., bears N. 10½° W., 182 lks. dist., mkd. T31N R16E S36 BT.</p> <p>Bury the iron post, with cap missing, alongside the cor. N. 89° 55' W., on the S. bdy. of sec. 36.</p> <p>Over gently rolling prairie, through scattered pinon and juniper timber.</p>																	
39.99	<p>The 1/4 sec. cor. of secs. 1 and 36, identical with AP D-1, on the Hopi-Navajo Partition line, monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above ground, with brass cap mkd. as described in the field note record of the 1909 survey. Add the marks HOPI NAVAJO AP D-1 79; the brass cap is now mkd.</p> <div style="text-align: center;"> <p>NAVAJO</p> <table style="margin: auto;"> <tr> <td></td> <td></td> <td>T31N</td> <td>R16E</td> </tr> <tr> <td></td> <td></td> <td>S36½</td> <td> </td> </tr> <tr> <td>1908</td> <td>79</td> <td>S1</td> <td>T30N</td> </tr> </table> <p>HOPI AP D-1</p> </div> <p>Set a steel fence post alongside the cor.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 89° 57' W., beginning new measurement.</p>			T31N	R16E			S36½		1908	79	S1	T30N					
		T31N	R16E															
		S36½																
1908	79	S1	T30N															
40.03	<p>The cor. of secs. 1, 2, 35 and 36, identical with AP D-2, on the Hopi-Navajo Partition line, monumented with an iron post, 3 ins. diam., firmly set, projecting 16 ins. above ground, with brass cap mkd. as described in the field note record of the 1909 survey. Add the marks HOPI NAVAJO AP D-2 1979; the brass cap is now mkd.</p> <div style="text-align: center;"> <p>NAVAJO</p> <table style="margin: auto;"> <tr> <td></td> <td></td> <td>T31N</td> <td>R16E</td> </tr> <tr> <td></td> <td></td> <td>S36</td> <td> </td> </tr> <tr> <td>1979</td> <td></td> <td>S35</td> <td>S1</td> </tr> <tr> <td></td> <td></td> <td>S2</td> <td>T30N</td> </tr> </table> <p>HOPI AP D-2</p> </div> <p>from which</p> <p>A juniper, 14 ins. diam., bears S. 71° E., 179 lks. dist., mkd. X BT.</p> <p>Set a steel fence post alongside the cor.</p>			T31N	R16E			S36		1979		S35	S1			S2	T30N	
		T31N	R16E															
		S36																
1979		S35	S1															
		S2	T30N															
40.00	<p>N. 89° 45' W., on the S. bdy. of sec. 35.</p> <p>Over rolling prairie.</p> <p>The 1/4 sec. cor. of secs. 2 and 35, identical with AP D-3, on the Hopi-Navajo Partition line, monumented with a scattered mound of stone, 3 ft. base, ½ ft. high. This position is harmoniously related to the existing 1909 cors. and is accepted as the best available evidence of the 1909 cor. position.</p>																	

Dependent Resurvey of a Portion of the South Boundary  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

CHAINS

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, to bedrock, cemented in a mound of stone, 2 ft. base to top, with brass cap mkd.

T31N R16E

NAVAJO

¼ S 35  
S 2

AP D-3

HOPI

T30N

1979

Set a steel fence post alongside the cor.

N. 89° 53' W., beginning new measurement.

40.13 The cor. of secs. 2, 3, 34 and 35, identical with AP D-4, on the Hopi-Navajo Partition line, monumented with an iron post, 3 ins. diam., firmly set, projecting 2 ins. above ground, with brass cap mkd. as described in the field note record of the 1909 survey. Add the marks HOPI NAVAJO AP D-4 1979; the brass cap is now mkd.

NAVAJO

1979  
S 34  
S 35  
S 3  
T31N T30N

HOPI

AP D-4

Set a steel fence post alongside the cor.

N. 89° 56' W., on the S. bdy. of sec. 34.

Over open, level prairie.

40.01 Point for the 1/4 sec. cor. of secs. 3 and 34, identical with AP D-5, on the Hopi-Navajo Partition line, at proportionate dist.; there is no remaining evidence of the 1909 cor.

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

T31N R16E

NAVAJO

¼ S 34  
S 3

AP D-5

HOPI

T30N

1979

Set a steel fence post alongside the cor.

80.02 Point for the cor. of secs. 3, 4, 33 and 34, identical with AP D-6, on the Hopi-Navajo Partition line, at proportionate dist.; there is no remaining evidence of the 1909 cor.

Dependent Resurvey of a Portion of the South Boundary  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

<p>CHAINS</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 R16E NAVAJO S 33   S 34 S 4   S 3 AP D-6 HOPI T30N</p> <p style="text-align: center;">1979</p> <p>Set a steel fence post alongside the cor.</p>													
<p>40.01</p>	<p>N. 89° 56' W., on the S. bdy. of sec. 33.</p> <p>Over rolling prairie, through scattered pinon and juniper timber.</p> <p>Point for the 1/4 sec. cor. of secs. 4 and 33, at proportionate dist.; there is no remaining evidence of the 1909 cor.</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 R16E ¼ S 33 S 4 T30N</p> <p style="text-align: center;">1979</p>													
<p>80.02</p>	<p>Set a steel fence post alongside the cor. and raise a mound of stone, 2 ft. base, 1 ft. high, N. of the cor.</p> <p>The cor. of secs. 4, 5, 32 and 33, monumented with an iron post, 3 ins. diam., firmly set, projecting 1 in. above ground, with brass cap mkd. as described in the field note record of the 1909 survey. Add the marks 1979; the brass cap is now mkd.</p> <p style="text-align: center;"> <table style="margin: auto;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S</td> <td style="border-right: 1px solid black; padding: 0 5px;">S 33</td> <td style="padding: 0 5px;">T31N</td> <td style="padding: 0 5px;">R16E</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">S 32</td> <td style="border-right: 1px solid black; padding: 0 5px;">S 4</td> <td style="padding: 0 5px;">T30N</td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">1979</td> <td style="border-right: 1px solid black; padding: 0 5px;">S 5</td> <td></td> <td></td> </tr> </table> </p> <p>Set a steel fence post alongside the cor.</p>	S	S 33	T31N	R16E	S 32	S 4	T30N		1979	S 5			
S	S 33	T31N	R16E											
S 32	S 4	T30N												
1979	S 5													
<p>40.05</p>	<p>N. 89° 59' W., on the S. bdy. of sec. 32.</p> <p>Over rolling prairie.</p> <p>The 1/4 sec. cor. of secs. 5 and 32, monumented with an iron post, 1 in. diam., firmly set, projecting 14 ins. above ground, in a mound of stone, 3 ft. base to top, with brass cap mkd. as described in the field note record of the 1909 survey. Add the marks T31N T30N R16E 79; the brass cap is now mkd.</p>													

Dependent Resurvey of a Portion of the South Boundary  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

CHAINS

T31N T30N  
S 32 1/4 | S 5  
79  
1908

from which the 1909 bearing trees

A pinon, 6 ins. diam., bears N. 56° E., 162 lks.  
dist., mkd. 1/4 S32 BT.

A juniper, 6 ins. diam., bears S. 41 3/4° E., 130  
lks. dist., mkd. 1/4 S5 BT.

Set a steel fence post alongside the cor.

Dependent Resurvey of a Portion of the North Boundary  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

Restoring the survey  
executed by Van L. White in 1911

From the cor. of secs. 1, 2, 35 and 36, monumented with  
an iron post, 3 ins. diam., firmly set, projecting 3 ins.  
above ground, with brass cap mkd. as described in the  
field note record of the 1911 survey. Add the marks 79;  
the brass cap is now mkd.

T32N R16E  
S 35 | S 36  
1911 79 S 2 | S 1  
T31N R16E

from which the 1911 bearing trees

A pinon, 6 ins. diam., bears N. 18 1/4° E., 87 lks.  
dist., mkd. T32N R16E S36 BT.

A pinon, 8 ins. diam., bears S. 68 1/2° E., 98 lks.  
dist., mkd. T31N R16E S1 BT.

A pinon, 10 ins. diam., bears S. 62° W., 120 lks.  
dist., mkd. T31N R16E S2 BT.

The root crown of a pinon, size indeterminate,  
bears N. 11 1/4° W., 64 lks. dist. No visible mks.

and a new bearing tree

A juniper, 10 ins. diam., bears N. 38° W., 63  
lks. dist., mkd. T32N R16E S35 BT.

Set a steel fence post alongside the cor.

N. 89° 58' W., bet. secs. 2 and 35.

Over rolling prairie, through scattered pinon and juniper  
timber.

Dependent Resurvey of a Portion of the North Boundary  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

<p>CHAINS</p> <p>18.40</p> <p>40.04</p>	<p>Point for AP D-19A, on the Hopi-Navajo Partition line, no permanent monument established.</p> <p>The 1/4 sec. cor. of secs. 2 and 35, monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above ground, with brass cap mkd. as described in the field note record of the 1911 survey. Add the marks T32N R16E 79; the brass cap is now mkd.</p> <div style="text-align: center;"> <p>T32N R16E</p> <table style="margin: auto;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">S</td> <td style="padding-right: 5px;">35</td> <td style="border-left: 1px solid black; padding-left: 5px;">S</td> <td style="padding-left: 5px;">T31N</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">1/4</td> <td style="padding-right: 5px;"></td> <td style="border-left: 1px solid black; padding-left: 5px;">2</td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">1911</td> <td style="padding-right: 5px;">79</td> <td style="border-left: 1px solid black; padding-left: 5px;"></td> <td></td> </tr> </table> </div> <p>from which the 1911 bearing trees</p> <p>A pinon stump, 14 ins. diam., bears S. 66° E., 81 lks. dist., mkd. 1/4 S2 BT.</p> <p>A pinon, 12 ins. diam., bears N. 31 3/4° W., 60 lks. dist., mkd. 1/4 S35 BT.</p> <p>and a new bearing tree</p> <p>A juniper, 5 ins. diam., bears S. 36° W., 43 lks. dist., mkd. 1/4 S2 BT.</p> <p>Set a steel fence post alongside the cor.</p>	S	35	S	T31N	1/4		2		1911	79		
S	35	S	T31N										
1/4		2											
1911	79												

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

Restoring the survey  
executed by Van L. White in 1911

From the cor. of secs. 2, 3, 10 and 11, monumented with an iron post, 2 ins. diam., firmly set, projecting 9 ins. above ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T31N R16E

S	3	S	2
S	10	S	11

1911

from which the 1911 bearing trees

A pinon, 10 ins. diam., bears N. 37° E., 93 lks. dist., mkd. T31N R16E S2 BT.

A juniper, 10 ins. diam., bears S. 74° E., 86½ lks. dist., mkd. T31N R16E S11 BT.

A pinon, 12 ins. diam., bears S. 64° W., 88½ lks. dist., mkd. T31N R16E S10 BT.

A pinon, 10 ins. diam., bears N. 33° W., 138 lks. dist., mkd. T31N R16E S3 BT.

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

CHAINS								
	<p>Add the date 79 to the brass cap and set a steel fence post alongside the cor.</p> <p>N. 0° 06' W., bet. secs. 2 and 3.</p> <p>Over rolling prairie, through scattered juniper and pinon timber.</p>							
10.31	<p>AP D-17 on the Hopi-Navajo Partition line, monumented with an iron post, 2½ ins. diam., firmly set in concrete, projecting 14 ins. above ground, with a steel fence post alongside, as described in the survey of the Hopi-Navajo Partition line, Segment "D," executed concurrently under this same group.</p>							
40.03	<p>The 1/4 sec. cor. of secs. 2 and 3, monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above ground, with brass cap mkd. as described in the field note record of the 1911 survey. Add the marks T31N R16E 79; the brass cap is now mkd.</p> <div style="text-align: center;"> <p>T31N R16E</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">1/4</td> <td style="padding: 0 5px;">3</td> <td style="padding: 0 5px;">2</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">1</td> <td style="padding: 0 5px;">2</td> <td style="padding: 0 5px;">5</td> </tr> </table> <p>79</p> <p>1911</p> </div> <p>from which the 1911 bearing trees</p> <p style="margin-left: 40px;">A juniper, 16 ins. diam., bears S. 72° E., 33 lks. dist., mkd. 1/4 S2 BT.</p> <p style="margin-left: 40px;">A juniper, 10 ins. diam., bears N. 58¼° W., 61 lks. dist., mkd. 1/4 S3 BT.</p> <p>Set a steel fence post alongside the cor.</p>	1/4	3	2	1	2	5	
1/4	3	2						
1	2	5						
	<p>From the cor. of secs. 2, 3, 10 and 11.</p> <p>N. 89° 56' W., bet. secs. 3 and 10.</p> <p>Over rolling prairie, through scattered timber.</p>							
9.13	<p>Point for AP D-16A, on the Hopi-Navajo Partition line, no permanent monument established.</p>							
39.96	<p>The 1/4 sec. cor. of secs. 3 and 10, determined from the original bearing trees</p> <p style="margin-left: 40px;">A pinon, 8 ins. diam., bears S. 18° W., 34 lks. dist., mkd. 1/4 S10 BT.</p> <p style="margin-left: 40px;">A juniper, 16 ins. diam., bears NORTH, 44 lks. dist., mkd. 1/4 S3 BT.</p> <p>At the corner point</p>							

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

CHAINS	
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 4 ins. in the ground, to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T31N R16E ¼ <math>\frac{S\ 3}{S\ 10}</math> 1979</p>
39.97	<p>From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., hereinbefore described.</p> <p>N. 0° 03' E., bet. secs. 33 and 34.</p> <p>Over rolling prairie, through scattered pinon and juniper timber.</p> <p>The 1/4 sec. cor. of secs. 33 and 34, identical with AP D-7, on the Hopi-Navajo Partition line, determined from the 1911 bearing trees</p> <p style="padding-left: 40px;">A juniper, 14 ins. diam., bears N. 82¼° E., 76 lks. dist., mkd. 1/4 S34 BT.</p> <p style="padding-left: 40px;">A juniper, 18 ins. diam., bears S. 74¼° W., 183 lks. dist., mkd. 1/4 S33 BT.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 16 ins. in the ground, to bedrock, in a mound of stone, 2½ ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T31N R16E ¼ HOPI   NAVAJO S 33   S 34 AP D-7 1979</p> <p>This cor. is located among large boulders, on a ridge bearing NE and SW.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0° 01' E., beginning new measurement.</p>
39.96	<p>The cor. of secs. 27, 28, 33 and 34, identical with AP D-8, on the Hopi-Navajo Partition line, monumented with an iron post, 2 ins. diam., firmly set, projecting 15 ins. above ground, with brass cap missing, from which the 1911 bearing trees</p> <p style="padding-left: 40px;">A juniper, 9 ins. diam., bears N. 46° E., 331 lks. dist., with visible mks. 3 6 S27 BT. (Record: N. 35° E.)</p> <p style="padding-left: 40px;">A juniper, 12 ins. diam., bears N. 48° W., 200 lks. dist., mkd. T31N R16E S28 BT. (Record: N. 32½° W.)</p>

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

## CHAINS

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 13 ins. in the ground, to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.

T31N R16E  
HOPI | NAVAJO  
S 28 | S 27  
S 33 | S 34  
AP D-8

1979

Set a steel fence post and bury the 1911 iron post alongside the cor.

N. 0° 01' E., bet. secs. 27 and 28.

Over rolling prairie, through scattered juniper and pinon timber.

40.01 The 1/4 sec. cor. of secs. 27 and 28, identical with AP D-9, on the Hopi-Navajo Partition line, determined from the 1911 bearing trees

A pinon, 11 ins. diam., bears N. 24½° E., 91 lks. dist., mkd. 1/4 S27 BT.

A pinon, 8 ins. diam., bears N. 82½° W., 43 lks. dist., mkd. 1/4 S28 BT.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 4 ins. in the ground, to bedrock, cemented in a mound of stone, 4½ ft. base to top, with brass cap mkd.

T31N R16E  
¼  
S 28 | S 27  
HOPI | NAVAJO  
AP D-9

1979

Set a steel fence post alongside the cor.

This cor. is located 25 ft. N. of a 25 ft. high rock ledge, bearing E. and W.

N. 0° 01' E., beginning new measurement.

40.01 The cor. of secs. 21, 22, 27 and 28, identical with AP D-10, on the Hopi-Navajo Partition line, determined from the original bearing trees

A juniper, 16 ins. diam., bears N. 63° E., 179 lks. dist., mkd. T31N R16E S22 BT.

A pinon, 24 ins. diam., bears S. 51° E., 261 lks. dist., mkd. T31N R16E S27 BT.

A juniper, 10 ins. diam., bears S. 48 3/4° W., 107 lks. dist., mkd. T31N R16E S28 BT.

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

CHAINS

A juniper, 20 ins. diam., bears N.  $13\frac{1}{2}^\circ$  W., 104 lks. dist., (blaze partially overgrown) mkd. 31 N R16.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in the ground, in a mound of stone, 2 ft. base to top, with brass cap mkd.

T31N R16E	
HOPI	NAVAJO
S 21	S 22
S 28	S 27
AP D-10	

1979

Set a steel fence post alongside the cor.

N.  $0^\circ 01'$  W., bet. secs. 21 and 22.

Over rolling hills, through pinon and juniper timber.

40.01

The 1/4 sec. cor. of secs. 21 and 22, identical with AP D-11, on the Hopi-Navajo Partition line, determined from the original bearing trees

A juniper, 16 ins. diam., bears N.  $68\frac{1}{2}^\circ$  E., 65 lks. dist., mkd. 1/4 S22 BT.

A juniper, 6 ins. diam., bears S.  $81\frac{1}{4}^\circ$  W., 13 lks. dist., mkd. 1/4 S21 BT.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 26 ins. in the ground, in concrete, with brass cap mkd.

T31N R16E	
$\frac{1}{4}$	
S 21	S 22
HOPI	NAVAJO
AP D-11	

1979

Set a steel fence post alongside the cor.

NORTH, beginning new measurement.

40.00

The cor. of secs. 15, 16, 21 and 22, identical with AP D-12, on the Hopi-Navajo Partition line, monumented with an iron post, 2 ins. diam., firmly set, projecting 9 ins. above ground, with brass cap mkd. as described in the field note record of the 1911 survey. Add the marks HOPI NAVAJO AP D-12 79; the brass cap is now mkd.

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

CHAINS		
	<p style="text-align: center;">T31N R16E S 16   S 15 S 21   S 22 HOPI   NAVAJO AP D-12</p> <p style="text-align: center;">79 1911</p> <p>from which the 1911 bearing trees</p> <p>A juniper, 11 ins. diam., bears S. 18½° E., 308 lks. dist., mkd. S22 BT. (Record bearing: S. 12° E.)</p> <p>A juniper, 28 ins. diam., bears S. 22° W., 293 lks. dist., mkd. T31N R16E BT. (Record bearing: S. 26° W.)</p> <p>This cor. is located 110 ft. S. of a trail road, bearing N. 55° E., and S. 55° W.</p>	
40.01	<p>N. 0° 04' W., bet. secs. 15 and 16.</p> <p>Over rolling hills, through juniper and pinon timber.</p> <p>The 1/4 sec. cor. of secs. 15 and 16, identical with AP D-13, on the Hopi-Navajo Partition line, monumented with an iron post, 1 in. diam., firmly set, projecting 9 ins. above ground, with brass cap mkd. as described in the field note record of the 1911 survey. Add the marks HOPI NAVAJO AP D-13 T31N R16E 79; the brass cap is now mkd.</p>	
40.08	<p style="text-align: center;">T31N R16E HOPI   NAVAJO 1/4 S 16   S 15 AP D-13</p> <p style="text-align: center;">79 1911</p> <p>from which the 1911 bearing trees</p> <p>A juniper, 12 ins. diam., bears S. 35½° E., 116 lks. dist., mkd. 1/4 S15 BT.</p> <p>A juniper, 18 ins. diam., bears N. 29½° W., 160 lks. dist., mkd. 1/4 S16 BT.</p> <p>Set a steel fence post alongside the cor.</p> <p>N. 0° 03' W., beginning new measurement.</p> <p>The cor. of secs. 9, 10, 15 and 16, identical with AP D-14, on the Hopi-Navajo Partition line, monumented with an iron post, 2 ins. diam., firmly set, projecting 10 ins. above ground, in a collar of stone, 3 ft. base to top, with brass cap mkd. as described in the field note record of the 1911 survey. Add the marks HOPI NAVAJO AP D-14 79; the brass cap is now mkd.</p>	

Dependent Resurvey, Portion of the Subdivisional Lines  
T. 31 N., R. 16 E., Gila and Salt River Mer., Arizona

CHAINS

T31N	R16E
S 9	S10
S 16	S 15
HOPI	NAVAJO
AP D-14	

79  
1911

from which the 1911 bearing trees

A pinon, 12 ins. diam., bears N. 71° E., 122  
lks. dist., mkd. T31N R16E S10 BT.

A juniper, 14 ins. diam., bears S. 58° E., 35  
lks. dist., mkd. T31N R16E S15 BT.

A juniper, 9 ins. diam., bears S. 66° W., 7 lks.  
dist., mkd. T31N R16E S16 BT.

A juniper, 18 ins. diam., bears N. 55° W., 54  
lks. dist., mkd. T31N R16E S9 BT.

From this cor. the remains of a U.S. Coast and Geodetic  
Survey triangulation station "ROCKY" which is a brass  
stem cemented in a rock outcrop, with brass cap missing,  
bears S. 55° 17' W., 36.26 chs. dist.

#### General Description

The land encompassed in this survey is located in the  
Dinnebito Trading Post and Rock Ridge School areas.  
Elevation ranges from 5900 feet in the south area to  
6100 feet above sea level in the north. Drainage is to  
the southwest by Dinnebito Wash. The soil is sandy and  
stoney. The vegetation consists of native grasses and  
weeds with juniper and pinon timber in the western half.

Access to the area is by several trail roads meandering  
throughout the area.

An average of the readings throughout the area resurveyed  
gives a mean magnetic declination of 13½° E., with no  
noticeable difference due to local attraction.



CERTIFICATE OF SURVEY

(We), Kenneth A. Krenke, Harry S. Pierce and Shirley B. Hjellum, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 1st day of July, 1977, and Supplemental Special Instructions dated February 24, 1978, (We) have dependently resurveyed portions of the south and north boundaries and a portion of the subdivisional lines, Township 31 North, Range 16 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 (us) and under (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.

Kenneth A. Krenke is no longer an employee of the Bureau of Land Management and could not be reached to sign this Certificate of Survey.

Signatures and dates of Paul D. Dennis (Chief, Branch of Cadastral Survey), Harry Pierce (Supervisory Cadastral Surveyor), and Shirley B. Hjellum (Supervisory Cadastral Surveyor) with dates from April 9, 1981 to April 14, 1981.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Denver, Colorado

The foregoing field notes of the dependent resurvey of portions of the south and north boundaries and a portion of the subdivisional lines, Township 31 North, Range 16 East, of the Gila and Salt River Meridian, Arizona,

executed by Kenneth A. Krenke, Harry S. Pierce and Shirley B. Hjellum, Supervisory Cadastral Surveyors having been critically examined and found correct, are hereby approved.

Signature and date of Gary S. Speight, ACTING (Chief, Cadastral Survey Examination and Approval Staff) dated SEP 17 1981.

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.

Signature and date lines for the transcript certification.