

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF

A PORTION OF THE SOUTH BOUNDARY

AND A PORTION OF THE SUBDIVISIONAL LINES

AND

THE METES-AND-BOUNDS SURVEY OF

THE HOPI AND NAVAJO PARTITION LINE,

IN

TOWNSHIP 32 NORTH, RANGE 12 EAST

Of the Gila and Salt River Meridian,
In the State of Arizona

EXECUTED BY

Stephen K. Hansen and Joe R. Salazar Cadastral Surveyors

Under Special Instructions dated July 8, 1996, approved July 8, 1996, which provided for the surveys included under Group Number 804, and assignment instructions dated July 8, 1996, and April 22, 1997.

Survey Commenced July 15, 1996
Survey Completed September 20, 1997

INDEX DIAGRAM

TOWNSHIP 32 NORTH, RANGE 12 EAST,

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Metes-and-Bounds Survey of the Hopi-Navajo Partition Line pp. 11-23

T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the south boundary and a portion of the subdivisional lines, and the metes-and-bounds survey of the Hopi and Navajo Partition Line, in Township 32 North, Range 12 East, Gila and Salt River Meridian, Arizona.

Philip Contzen surveyed the north and west boundaries and portions of the east and south boundaries, in 1905. Sydney E. Blout retraced a portion of the south and west boundaries and surveyed a portion of the subdivisional lines, in 1907.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated July 8, 1996, for Group No. 804, 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 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 hour angle observations on the sun, and refer to the true meridian. Distances and angles were measured with a Sokkia Set 2 BII total station instrument.

The geographic position of the corner of Townships 31 and 32 North, Ranges 11 and 12 East, as determined from a tie made to U.S. Coast and Geodetic Survey Triangulation station "TUBA CITY 1951", is as follows:

Latitude: 36°06'14.30" N. Longitude: 111°09'30.81" W.
(NAD 83, 1992)

The mean magnetic declination of 12 3/4° E., was derived from the United States Geological Survey computer program "MAGPOINT", utilizing the Regional Magnetic Field Model for Epoch 1995 for the dates of survey.

Dependent Resurvey of a Portion of the South Boundary,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

CHAINS

Restoring the retracement executed by
Sidney E. Blout in 1907

Beginning at the cor. of Tps. 31 and 32 N., Rs. 11 and 12 E., monumented with a stainless steel post, firmly set, projecting 13 ins. above ground, in a mound of stone, 3 ft. base to top, with brass cap mkd. T32N R11E R12E S36 S31 S1 S6 T31N 1996, and witnessed as described in the dependent resurvey of a portion of the south boundary, T. 32 N., R. 11 E., executed concurrently under this same assignment.

N. 89°51' E., on the S. bdy. of the Tp., bet. secs. 6 and 31.

38.39

The 1/4 sec. cor. of secs. 6 and 31, monumented with a piece of limestone, 4 x 4 x 3 ins., mkd. 1/4 on a face, lying loosely on the surface of the ground, encircled with the pieces of the original stone. This is accepted as the best available evidence of the original cor. position.

At the cor. point

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T32N R12E
S31
1/4 —
S6
T31N
1996

Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post and bury the remains of the original stone alongside the stainless steel post.

Set a steel fence post near the stainless steel post.

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

Restoring the survey executed by
Sidney E. Blout in 1907

From the cor. of secs. 27, 28, 33 and 34, monumented with a limestone, 22 x 8 x 4 ins., firmly set, projecting 13 ins. above ground, with 1 notch on the S. edge.

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|-----------|--|--|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|------|--|--|--|
| | <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>T32N R12E</td><td></td><td></td><td></td></tr> <tr><td>S28</td><td> </td><td>S27</td><td></td></tr> <tr><td colspan="4" style="border-top: 1px solid black;"></td></tr> <tr><td>S33</td><td> </td><td>S34</td><td></td></tr> <tr><td colspan="4" style="text-align: center;">1997</td></tr> </table> <p>Deposit a magnet in a 1 x 1 x 2 5/8 in. white plastic case beneath the stainless steel post and bury the original stone alongside the stainless steel post.</p> <p>Set a steel fence post near the stainless steel post.</p> <p>N. 0°06' W., bet. secs. 27 and 28.</p> | T32N R12E | | | | S28 | | S27 | | | | | | S33 | | S34 | | 1997 | | | |
| T32N R12E | | | | | | | | | | | | | | | | | | | | | |
| S28 | | S27 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| S33 | | S34 | | | | | | | | | | | | | | | | | | | |
| 1997 | | | | | | | | | | | | | | | | | | | | | |
| 39.97 | <p>The 1/4 sec. cor. of secs. 27 and 28, monumented with a limestone, 19 x 12 x 4 ins., loosely set, projecting 17 ins. above ground, mkd. 1/4 on W. face.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>T32N R12E</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1/4</td><td></td></tr> <tr><td>S28</td><td> </td><td>S27</td><td></td></tr> <tr><td colspan="4" style="border-top: 1px solid black;"></td></tr> <tr><td colspan="4" style="text-align: center;">1997</td></tr> </table> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post and bury the original stone alongside the stainless steel post.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°12' W., beginning new measurement.</p> | T32N R12E | | | | | | 1/4 | | S28 | | S27 | | | | | | 1997 | | | |
| T32N R12E | | | | | | | | | | | | | | | | | | | | | |
| | | 1/4 | | | | | | | | | | | | | | | | | | | |
| S28 | | S27 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 1997 | | | | | | | | | | | | | | | | | | | | | |
| 40.00 | <p>Point for the cor. of secs. 21, 22, 27 and 28, at proportionate dist.; there is no remaining evidence of the original cor.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>T32N R12E</td><td></td><td></td><td></td></tr> <tr><td>S21</td><td> </td><td>S22</td><td></td></tr> <tr><td colspan="4" style="border-top: 1px solid black;"></td></tr> <tr><td>S28</td><td> </td><td>S27</td><td></td></tr> <tr><td colspan="4" style="text-align: center;">1997</td></tr> </table> | T32N R12E | | | | S21 | | S22 | | | | | | S28 | | S27 | | 1997 | | | |
| T32N R12E | | | | | | | | | | | | | | | | | | | | | |
| S21 | | S22 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| S28 | | S27 | | | | | | | | | | | | | | | | | | | |
| 1997 | | | | | | | | | | | | | | | | | | | | | |

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
|--------|---|
| | <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Set a steel fence post near the stainless steel post</p> <hr/> <p>N. 0°09' E., bet. secs. 21 and 22.</p> |
| 4.01 | <p>Point for AP 1, identical with AP 61, of the metes-and-bounds survey of the Hopi and Navajo Partition Line through unsurveyed Townships 30 North, Ranges 11 and 12 East, and Township 31 North, Range 12 East, and partially surveyed Township 32 North, Range 12 East, at the middle of the stream bed of Moenkopi Wash, hereinafter described.</p> |
| 40.00 | <p>The 1/4 sec. cor. of secs. 21 and 22, monumented with an "X", chiselled in the top face of a sandstone outcropping, 20 x 20 x 2 ft. above ground, with a scattered mound of stone, to the N. The marks "1/4 W" were found chiselled into sandstone to the W. of the cor.</p> <p>At the cor. point</p> <p>Set a brass tablet, 3 1/4 ins. diam., 3 1/2 in. stem, in a drill hole, and in concrete, with top mkd.</p> <p style="text-align: center;">T32N R12E 1/4 S21 S22 1997</p> <p>Deposit a 3/4 x 1 in. cylindrical magnet in the drill hole, beneath the brass tablet.</p> <p>Rebuild the mound of stone, 2 ft. base, 1 ft. high, to the N.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 32 and 33, monumented with a limestone, 14 x 10 x 5 ins., lying loosely on the surface of the ground, mkd. 1/4 on a face. This is accepted as the best available evidence of the original cor. position.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> |

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | | | | | | | | | |
|-----------|---|-----------|--|-----|-----|-----|-----|------|--|
| | <p style="text-align: center;">T32N R12E 1/4 S32 S33 1997</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Deposit the original stone alongside the stainless steel post, in the mound of stone.</p> <p>N. 0°02' E., bet. secs. 32 and 33.</p> | | | | | | | | |
| 39.04 | Point for AP 30, on the Hopi and Navajo Partition Line, at the middle of the stream bed of Moenkopi Wash, hereinafter described. | | | | | | | | |
| 40.04 | <p>True point for the cor. of secs. 28, 29, 32 and 33, at proportionate dist.; falls in Moenkopi Wash, there is no remaining evidence of the original witness cor.</p> <p>From this point, the point selected for a witness cor. to the cor. of secs. 28, 29, 32 and 33, bears N. 3°13' E., 1.61 chs. dist.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., firmly set, 25 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>WC</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2" style="text-align: center;">T32N R12E</td> </tr> <tr> <td style="text-align: center;">S29</td> <td style="text-align: center;">S28</td> </tr> <tr> <td style="text-align: center;">S32</td> <td style="text-align: center;">S33</td> </tr> <tr> <td colspan="2" style="text-align: center;">1997</td> </tr> </table> <p>↓</p> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Set a steel fence post near the stainless steel post.</p> | T32N R12E | | S29 | S28 | S32 | S33 | 1997 | |
| T32N R12E | | | | | | | | | |
| S29 | S28 | | | | | | | | |
| S32 | S33 | | | | | | | | |
| 1997 | | | | | | | | | |
| 40.04 | <p>From the cor. of secs. 27, 28, 33 and 34.</p> <p>N. 89°52' W., bet. secs. 28 and 33.</p> <p>Point for the 1/4 sec. cor. of secs. 28 and 33, at proportionate dist.; there is no remaining evidence of the original cor.</p> | | | | | | | | |

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| | <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T32N R12E S28 1/4 — S33 1997</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Raise a mound of stone, 2 1/2 ft. base, 2 ft. high, to the N.</p> <p>77.83 Point for AP 29, on the Hopi and Navajo Partition Line, at the middle of the stream bed of Moenkopi Wash, hereinafter described.</p> <p>80.08 The true point for the cor. of secs. 28, 29, 32 and 33.</p> |
| | <hr/> <p>N. 0°08' W., bet. secs. 28 and 29.</p> <p>10.00 Point for AP 26, on the Hopi and Navajo Partition Line, at the middle of the stream bed of Moenkopi Wash, hereinafter described.</p> <p>17.79 Point for AP 24, on the Hopi and Navajo Partition Line, at the middle of the stream bed of Moenkopi Wash, hereinafter described.</p> <p>40.04 The 1/4 sec. cor. of secs. 28 and 29, monumented with a sandstone, 15 x 5 x 4 ins., firmly set, projecting 4 ins. above ground, mkd. 1/4 on W. face.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T32N R12E 1/4 S29 S28 1997</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post and bury the original stone alongside the stainless steel post.</p> <p>Set a steel fence post near the stainless steel post.</p> <hr/> <p>From the cor. of secs. 21, 22, 27 and 28.</p> |

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
|---------------------------|---|
| <p>11.63</p> <p>40.05</p> | <p>N. 89°47' W., bet. secs. 21 and 28.</p> <p>Point for AP 3, on the Hopi and Navajo Partition Line, at the middle of the stream bed of Moenkopi Wash, hereinafter described.</p> <p>The 1/4 sec. cor. of secs. 21 and 28, monumented with a sandstone, 14 x 8 x 5 ins., loosely set, projecting 11 ins. above ground, mkd. 1/4 on N. face.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T32N R12E S21 1/4 — S28 1997</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post and bury the original stone alongside the stainless steel post.</p> |
| <p>15.71</p> | <p>From the 1/4 sec. cor. of secs. 31 and 32, monumented with a limestone, 16 x 9 x 5 ins., lying loosely on the surface of the ground, mkd. 1/4 on a face. This is accepted as the best available evidence of the original cor. position.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 18 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T32N R12E 1/4 S31 S32 1997</p> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post and bury the original stone alongside the stainless steel post.</p> <p>N. 0°11' W., bet. secs. 31 and 32.</p> <p>Point for AP 57, on the Hopi and Navajo Partition Line, at the middle of the stream bed of Moenkopi Wash, hereinafter described.</p> |

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

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|--------|---|------|------|--|-----|-----|--|--|--|--|-----|-----|--|------|--|--|------|------|--|--|-----|--|--|-----|--|--|-----|--|------|--|--|
| CHAINS | <p>39.96 The cor. of secs. 29, 30, 31 and 32, monumented with a sandstone, 18 x 7 x 3 ins., firmly set, 6 ins. below the surface of the ground, mkd. with 5 notches on the E. edge, and 1 notch on the S. edge.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <table style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 0 5px;">T32N</td> <td style="padding: 0 5px;">R12E</td> <td></td> </tr> <tr> <td style="padding: 0 5px;">S30</td> <td style="border-left: 1px solid black; padding: 0 5px;">S29</td> <td></td> </tr> <tr> <td colspan="3" style="border-top: 1px solid black; height: 1px;"></td> </tr> <tr> <td style="padding: 0 5px;">S31</td> <td style="border-left: 1px solid black; padding: 0 5px;">S32</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 0 5px;">1997</td> </tr> </table> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post and bury the original stone alongside the stainless steel post.</p> <hr style="border: 0.5px solid black; margin: 10px 0;"/> <p>From the true point for the cor. of secs. 28, 29, 32 and 33.</p> <p>N. 89°44' W., bet. secs. 29 and 32.</p> <p>40.05 The 1/4 sec. cor. of secs. 29 and 32, monumented with a sandstone, 8 x 4 x 2 ins., lying loosely on the surface of a sandstone outcropping, mkd. 1/4 on a face, with a scattered mound of stone, 2 ft. base, 1 ft. high, to the N.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 12 ins. in a drill hole, in sandstone, and in concrete, in a supporting mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <table style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 0 5px;">T32N</td> <td style="padding: 0 5px;">R12E</td> <td></td> </tr> <tr> <td></td> <td style="padding: 0 5px;">S29</td> <td></td> </tr> <tr> <td></td> <td style="padding: 0 5px;">1/4</td> <td style="border-top: 1px solid black; width: 20px;"></td> </tr> <tr> <td></td> <td style="padding: 0 5px;">S32</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 0 5px;">1997</td> </tr> </table> </div> <p>Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>Deposit the original stone alongside the stainless steel post, in the mound of stone.</p> <hr style="border: 0.5px solid black; margin: 10px 0; width: 20%; margin-left: auto; margin-right: auto;"/> <p>N. 89°54' W., beginning new measurement.</p> | T32N | R12E | | S30 | S29 | | | | | S31 | S32 | | 1997 | | | T32N | R12E | | | S29 | | | 1/4 | | | S32 | | 1997 | | |
| T32N | R12E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S30 | S29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S31 | S32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1997 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T32N | R12E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1/4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1997 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| 40.12 | <p>The cor. of secs. 29, 30, 31 and 32.</p> <hr/> <p>Metes-and-Bounds Survey of the Hopi and Navajo Partition Line, T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona</p> <hr/> <p>The following boundary is based upon the legal description provided in the 816 Federal Supplement 1387, District of Arizona, 1992, Attachment B, in the case of Masayesva v. Zah.</p> <p style="text-align: center;">_____</p> <p>From the point for AP 1, identical with AP 61, of the metes-and-bounds survey of the Hopi and Navajo Partition Line through unsurveyed Townships 30 North, Ranges 11 and 12 East, and Township 31 North, Range 12 East, and partially surveyed Township 32 North, Range 12 East, on the line bet. secs. 21 and 22, at the middle of the stream bed of Moenkopi Wash.</p> <p>Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument.</p> <p>from which</p> <p style="padding-left: 40px;">A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 22 ins. in the ground, for a reference monument, bears S. 10°32' E., 32.4 ft. dist., with brass cap mkd. RM T32N R12E S21 32.6 FT TO AP 61 1997 with an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p style="padding-left: 40px;">A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 23 ins. in the ground, for a reference monument, bears N. 39°43' W., 179.7 ft. dist., with brass cap mkd. RM T32N R12E S21 179.3 FT TO AP 61 1997 with an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>From this cor. point, the cor. of secs. 21, 22, 27 and 28, bears S. 0°09' W., 4.01 chs. dist., hereinbefore described.</p> <p>S. 79°49' W., on line 1-2, on the Hopi and the Navajo Partition Line, along the middle of the stream bed of the Moenkopi Wash.</p> |
| 6.74 | <p>Point for AP 2. Not monumented.</p> <p style="text-align: center;">_____</p> <p>S. 61°03' W., on line 2-3.</p> |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| 5.73 | <p>Point for AP 3, on the line bet. secs. 21 and 28.</p> <p>Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument.</p> <p>from which</p> <p>A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 22 ins. in the ground, for a reference monument, bears S. 7°20' W., 78.6 ft. dist., with brass cap mkd. RM T32N R12E S28 78.6 FT TO AP 3 1997 with an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 22 ins. in the ground, for a reference monument, bears N. 9°59' W., 52.4 ft. dist., with brass cap mkd. RM T32N R12E S21 52.4 FT TO AP 3 1997 with an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <p>From this cor. point, the cor. of secs. 21, 22, 27 and 28, bears S. 89°47' E., 11.63 chs. dist., hereinbefore described.</p> |
| | <hr/> <p>S. 54°05' W., on line 3-4.</p> |
| 2.12 | <p>Point for AP 4. Not monumented.</p> <hr/> |
| | <p>S. 31°28' W., on line 4-5.</p> |
| 9.21 | <p>Point for AP 5. Not monumented.</p> <hr/> |
| | <p>N. 68°57' W., on line 5-6.</p> |
| 10.91 | <p>Point for AP 6. Not monumented.</p> <hr/> |
| | <p>S. 75°50' W., on line 6-7.</p> |
| 5.64 | <p>Point for AP 7. Not monumented.</p> <hr/> |
| | <p>S. 39°54' W., on line 7-8</p> |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| 4.37 | Point for AP 8. Not monumented. <hr/> |
| | S. 3°37' E., on line 8-9. |
| 4.89 | Point for AP 9. |
| | Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument. |
| | from which |
| | An aluminum rod, 12 ins. long, 3/4 in. diam., set 6 ins. in a drill hole, in sandstone, and in concrete, for a reference monument, bears S. 42°27' W., 19.7 ft. dist., with aluminum cap mkd. RM T32N R12E S28 19.7 FT TO AP 9 1997 with an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the aluminum rod. <hr/> |
| | N. 68°28' W., on line 9-10. |
| 9.78 | Point for AP 10. Not monumented. <hr/> |
| | N. 57°40' W., on line 10-11. |
| 6.29 | Point for AP 11. Not monumented. <hr/> |
| | N. 85°30' W., on line 11-12. |
| 3.75 | Point for AP 12. Not monumented. <hr/> |
| | S. 17°56' E., on line 12-13. |
| 4.87 | Point for AP 13. Not monumented. <hr/> |
| | S. 45°18' E., on line 13-14. |
| 6.19 | Point for AP 14. Not monumented. <hr/> |
| | S. 31°59' W., on line 14-15. |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| 4.49 | Point for AP 15. Not monumented. <hr/> |
| | S. 59°40' W., on line 15-16. |
| 3.35 | Point for AP 16. |
| | Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument. |
| | from which |
| | An aluminum rod, 18 ins. long, 3/4 in. diam., set 8 ins. in a drill hole, in sandstone, and in concrete, for a reference monument, bears S. 52°36' E., 54.6 ft. dist., with aluminum cap mkd. RM T32N R12E S28 19.7 FT TO AP 16 1997 with an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the aluminum rod. <hr/> |
| | S. 5°33' W., on line 16-17. |
| 2.79 | Point for AP 17. Not monumented. <hr/> |
| | S. 44°14' W., on line 17-18. |
| 8.10 | Point for AP 18. Not monumented. <hr/> |
| | N. 82°21' W., on line 18-19. |
| 9.23 | Point for AP 19. Not monumented. <hr/> |
| | S. 19°18' W., on line 19-20. |
| 7.82 | Point for AP 20. Not monumented. <hr/> |
| | S. 14°34' E., on line 20-21. |
| 8.20 | Point for AP 21. Not monumented. <hr/> |
| | S. 8°19' W., on line 21-22. |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| 5.36 | Point for AP 22. Not monumented. <hr/> |
| | S. 20°04' E., on line 22-23. |
| 3.18 | Point for AP 23. |
| | Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument. |
| | from which |
| | An "X", chiseled in sandstone, bears S. 38°59' W., |
| | 44 1/2 lks. ft. dist. Deposit a 3/4 x 1 in. cylindrical magnet, in a drill hole, 4 ins. deep, and in concrete, beneath the chiseled "X". <hr/> |
| | S. 50°01' W., on line 23-24. |
| 14.08 | Point for AP 24, on the line bet. secs. 28 and 29. |
| | Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument. |
| | from which |
| | A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 22 ins. in the ground, for a reference monument, bears S. 81°23' W., 83.6 ft. dist., with brass cap mkd. RM T32N R12E S29 83.6 FT TO AP 24 1997 with an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post. |
| | From this cor. point, the 1/4 sec. cor. of secs. 28 and 29, bears N. 0°08' W., 22.25 chs. dist., hereinbefore described. <hr/> |
| | S. 8°44' W., on line 24-25. |
| 6.97 | Point for AP 25. Not monumented. <hr/> |
| | S. 50°01' E., on line 25-26. |
| 1.41 | Point for AP 26, on the line bet. secs. 28 and 29. |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
|--------|---|
| | <p>Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument.</p> |
| | <p>from which</p> |
| | <p>A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 22 ins. in the ground, for a reference monument, bears S. 24°45' W., 50.1 ft. dist., with brass cap mkd. RM T32N R12E S29 50.1 FT TO AP 26 1997 with an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> |
| | <p>From this cor. point, the cor. of secs. 28, 29, 32 and 33, bears S. 0°08' E., 10.00 chs. dist., hereinbefore described.</p> |
| | <hr/> <p>N. 85°33' E., on line 26-27.</p> |
| 3.52 | <p>Point for AP 27. Not monumented.</p> <hr/> |
| | <p>S. 41°57' E., on line 27-28.</p> |
| 5.70 | <p>Point for AP 28. Not monumented.</p> <hr/> |
| | <p>S. 39°59' W., on line 28-29.</p> |
| 7.87 | <p>Point for AP 29, on the line bet. secs. 28 and 33.</p> |
| | <p>Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument.</p> |
| | <p>From this cor. point, the true point for the cor. of secs. 28, 29, 32 and 33, bears N. 89°52' W., 2.25 chs. dist.</p> <hr/> |
| | <p>S. 66°00' W., on line 29-30.</p> |
| 2.46 | <p>Point for AP 30, on the line bet. secs. 32 and 33.</p> |
| | <p>Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument.</p> |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| | <p>From this cor. point, the true point for the cor. of secs. 28, 29, 32 and 33, bears N. 0°02' E., 1.00 ch. dist.</p> <hr/> |
| | <p>S. 85°02' W., on line 30-31.</p> |
| 5.32 | <p>Point for AP 31. Not monumented.</p> <hr/> |
| | <p>N. 82°12' W., on line 31-32.</p> |
| 8.50 | <p>Point for AP 32. Not monumented.</p> <hr/> |
| | <p>S. 9°17' E., on line 32-33.</p> |
| 2.33 | <p>Point for AP 33. Not monumented.</p> <hr/> |
| | <p>S. 46°38' E., on line 33-34.</p> |
| 5.15 | <p>Point for AP 34. Not monumented.</p> <hr/> |
| | <p>S. 34°39' W., on line 34-35.</p> |
| 3.32 | <p>Point for AP 35. Not monumented.</p> <hr/> |
| | <p>S. 14°01' W., on line 35-36.</p> |
| 10.85 | <p>Point for AP 36. Not monumented.</p> <hr/> |
| | <p>S. 56°06' W., on line 36-37.</p> |
| 3.07 | <p>Point for AP 37. Not monumented.</p> <hr/> |
| | <p>N. 22°09' W., on line 37-38.</p> |
| 6.43 | <p>Point for AP 38.</p> <p>Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument.</p> <p>from which</p> |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| | <p>An aluminum rod, 36 ins. long, 3/4 in. diam., set 32 ins. in the ground, for a reference monument, bears N. 60°42' E., 59.5 ft. dist., with aluminum cap mkd. RM T32N R12E S32 59.5 FT TO AP 38 1997 with an arrow pointing to the cor.</p> <hr/> |
| 7.88 | <p>S. 81°00' W., on line 38-39. Point for AP 39. Not monumented.</p> <hr/> |
| 6.44 | <p>S. 66°16' W., on line 39-40. Point for AP 40. Not monumented.</p> <hr/> |
| 8.18 | <p>N. 42°49' W., on line 40-41. Point for AP 41. Not monumented.</p> <hr/> |
| 4.87 | <p>S. 18°54' W., on line 41-42. Point for AP 42. Not monumented.</p> <hr/> |
| 5.54 | <p>S. 78°44' W., on line 42-43. Point for AP 43. Not monumented.</p> <hr/> |
| 7.55 | <p>S. 81°10' W., on line 43-44. Point for AP 44. Not monumented.</p> <hr/> |
| 3.36 | <p>S. 86°31' W., on line 44-45. Point for AP 45. Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument. from which</p> |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| | <p>A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 22 ins. in the ground, for a reference monument, bears S. 1°36' E., 99.0 ft. dist., with brass cap mkd. RM T32N R12E S32 99 FT TO AP 45 1997 with an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post.</p> <hr/> |
| | <p>S. 55°48' W., on line 45-46.</p> |
| 2.42 | <p>Point for AP 46. Not monumented.</p> <hr/> |
| | <p>S. 43°44' E., on line 46-47.</p> |
| 5.33 | <p>Point for AP 47. Not monumented.</p> <hr/> |
| | <p>S. 50°03' W., on line 47-48.</p> |
| 3.60 | <p>Point for AP 48. Not monumented.</p> <hr/> |
| | <p>S. 76°00' W., on line 48-49.</p> |
| 3.07 | <p>Point for AP 49. Not monumented.</p> <hr/> |
| | <p>N. 0°16' E., on line 49-50.</p> |
| 3.71 | <p>Point for AP 50. Not monumented.</p> <hr/> |
| | <p>N. 55°51' W., on line 50-51.</p> |
| 5.30 | <p>Point for AP 51. Not monumented.</p> <hr/> |
| | <p>N. 80°07' W., on line 51-52.</p> |
| 4.13 | <p>Point for AP 52. Not monumented.</p> <hr/> |
| | <p>S. 53°48' W., on line 52-53.</p> |
| 1.81 | <p>Point for AP 53. Not monumented.</p> <hr/> |
| | <p>S. 21°27' E., on line 53-54.</p> |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| 5.57 | Point for AP 54. Not monumented. <hr/> |
| | S. 64°19' W., on line 54-55. |
| 3.05 | Point for AP 55. Not monumented. <hr/> |
| | N. 28°53' W., on line 55-56. |
| 4.21 | Point for AP 56. Not monumented. <hr/> |
| | N. 83°36' W., on line 56-57. |
| 7.30 | Point for AP 57, on the line bet. secs 31 and 32. |
| | Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument. |
| | from which |
| | A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 18 ins. in the ground, for a reference monument, bears N. 0°05' E., 112.3 ft. dist., with brass cap mkd. RM T32N R12E S32 112.3 FT TO AP 57 1997 with an arrow pointing to the cor. Deposit a magnet in a 1 x 1 x 2 5/8 ins. white plastic case beneath the stainless steel post. |
| | An aluminum rod, 36 ins. long, 3/4 in. diam., set 34 ins. in the ground, for a reference monument, bears S. 29°06' E., 130.6 ft. dist., with brass cap mkd. RM T32N R12E S32 130.6 FT TO AP 57 1997 with an arrow pointing to the cor. |
| | From this cor. point, the 1/4 sec. cor. of secs. 31 and 32, bears S. 0°11' E., 15.71 chs. dist., hereinbefore described. <hr/> |
| | N. 83°23' W., on line 57-58. |
| 2.20 | Point for AP 58. Not monumented. <hr/> |
| | S. 49°52' W., on line 58-59. |
| 3.85 | Point for AP 59. Not monumented. <hr/> |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| | S. 36°15' W., on line 59-60. |
| 7.63 | Point for AP 60. Not monumented. <hr/> |
| | N. 44°54' W., on line 60-61. |
| 8.49 | Point for AP 61. Not monumented. <hr/> |
| | S. 45°40' W., on line 61-62. |
| 6.10 | Point for AP 62. Not monumented. <hr/> |
| | S. 27°51' W., on line 62-63. |
| 9.13 | Point for AP 63. Not monumented. <hr/> |
| | N. 60°47' W., on line 63-64. |
| 4.70 | Point for AP 64. Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument. from which An aluminum rod, 36 ins. long, 3/4 in. diam., set 32 ins. in the ground, for a reference monument, bears N. 37°57' W., 72.8 ft. dist., with brass cap mkd. RM T32N R12E S31 72.8 FT TO AP 64 1997 with an arrow pointing to the cor. <hr/> |
| | S. 63°50' W., on line 64-65. |
| 9.10 | Point for AP 65. Not monumented. <hr/> |
| | S. 66°41' W., on line 65-66. |
| 4.26 | Point for AP 66. Not monumented. <hr/> |
| | N. 49°42' W., on line 66-67. |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

| CHAINS | |
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| 11.77 | Point for AP 67. Not monumented. <hr/> |
| | S. 69°04' W., on line 67-68. |
| 3.80 | Point for AP 68. Not monumented. <hr/> |
| | S. 9°12' E., on line 68-69. |
| 4.88 | Point for AP 69. |
| | Set a No. 40 Common Nail, 1/4 x 5 ins., flush with the surface of the ground; cor. falls in the center of the wash, subject to destruction by seasonal flooding, where it is impracticable to establish a more durable monument. An aluminum rod, 36 ins. long, 3/4 in. diam., set 32 ins. in the ground, for a reference monument, bears S. 12°09' W., 19.4 ft. dist., with brass cap mkd. RM T32N R12E S31 19.4 FT TO AP 69 1997 with an arrow pointing to the cor. <hr/> |
| | N. 73°16' W., on line 69-70. |
| 12.70 | Point for AP 70. Not monumented. <hr/> |
| | S. 9°11' E., on line 70-71. |
| 3.75 | Point for AP 71. Not monumented. <hr/> |
| | S. 44°05' E., on line 71-72. |
| 3.08 | Point for AP 72. Not monumented. <hr/> |
| | S. 40°22' W., on line 72-73. |
| 9.74 | Point for AP 73. Not monumented. <hr/> |
| | S. 83°41' W., on line 73-74. |
| 4.06 | Point for AP 74. Not monumented. <hr/> |

Metes-and-Bounds Survey of the Hopi and Navajo Partition Line,
T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona

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| CHAINS | <p>S. 29°56' W., on line 74-75.</p> |
| 11.17 | <p>Point for AP 75. Not monumented.</p> <hr style="width: 20%; margin: 10px auto;"/> |
| 0.76 | <p>S. 75°37' W., on line 75-76.</p> <p>AP 76, identical with AP 1, T. 32 N., R. 11 E., on the line bet. secs. 31 and 36, on the W. bdy. of the Tp., referenced as described in the dependent resurvey of a portion of the east boundary, T. 32 N., R. 11 E., executed concurrently under this same assignment.</p> <p>From this cor. point, the cor. of Tps. 31 and 32 N., Rs. 31 and 32 E., bears S. 0°10' W., 19.21 chs. dist., hereinbefore described.</p> |
| <hr/> <p>GENERAL DESCRIPTION</p> <hr/> | |
| <p>This survey is located near the town of Tuba City, Az.</p> <p>Terrain is rolling and mainly covered with vegetation of sagebrush and grasses. In the washes are stands of thick saltcedar and cottonwood trees.</p> <p>Elevation is approximately 5500 ft. above sea level.</p> <p>No mineral activity was noted.</p> | |

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

| NAMES | CAPACITY |
|--------------------|----------------------|
| Geoffrey A. Graham | Surveying Technician |
| Cheryl A. Hansen | Surveying Technician |
| Dennis O. Kuhn | Surveying Technician |
| Robert J. Lyle | Surveying Technician |
| Mark R. Searles | Surveying Technician |
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CERTIFICATE OF SURVEY

We, Stephen K. Hansen and Joe R. Salazar, Cadastral Surveyors, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 8th day of July, 1996, we have dependently resurveyed a portion of the south boundary and a portion of the subdivisional lines, and performed the metes-and-bounds survey of the Hopi and Navajo Partition Line in Township 32 North, Range 12 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.

4/08/99

(Date)

Stephen K. Hansen

(Cadastral Surveyor)

4/8/99

(Date)

Joe R. Salazar

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Arizona State Office
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the south boundary and a portion of the subdivisional lines, and the metes-and-bounds survey of the Hopi and Navajo Partition Line in Township 32 North, Range 12 East, Gila and Salt River Meridian, Arizona, executed by Stephen K. Hansen and Joe R. Salazar, Cadastral Surveyors, having been critically examined and found correct, are hereby approved.

April 22, 1999

(Date)

Kenny A. Ravnikar

(Chief Cadastral Surveyor of Arizona)

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in Partially Surveyed T. 32 N., R. 12 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

(Date)

(Chief Cadastral Surveyor of Arizona)