

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF PORTIONS OF THE
SOUTH BOUNDARY AND SUBDIVISIONAL LINES
TOWNSHIP 31 NORTH, RANGE 1 WEST

Series of horizontal lines for field notes.

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

EXECUTED BY

GILBERT V. OLSON SUPERVISORY CADASTRAL SURVEYOR

Series of horizontal lines for signature and title.

Under special instructions dated MAY 23, 19 75, approved JUNE 5, 1975,

_____, which provided for the surveys included under ~~U.S. Survey~~ ^{XXXXXXXXXX} Group

Number 576, and assignment instructions dated MAY 9, 19 75.

Survey commenced MAY 12, 19 75
Survey completed JUNE 10, 19 75

1A

BOOK 5079

INDEX DIAGRAM

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1B

T. 31 N., R. 1 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes are those of the dependent resurvey of a portion of the south boundary and subdivisional lines, Township 31 North, Range 1 West of the Gila and Salt River Meridian, Arizona.

The south, west, and north boundaries, and subdivisional lines were surveyed by W. O. Secor, in 1900. Certain corners on the north boundary and within the subdivision of the township were remonumented without survey by Paul G. Bauer, in 1973.

This survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated May 23, 1975, for Group No. 576, Arizona.

The direction of the lines was determined by Polaris and solar observations. They refer to the true meridian.

Preliminary to the resurvey, the lines of the original survey were retraced and search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. The retrace-ment data were thoroughly verified and only the true line field notes are given herein.

The geographic position of the corner of sections 4, 5, 32, and 33, on the south boundary of the township, as scaled from U. S. Geological Survey quadrangle map, "HAVASUPAI POINT," 1962, is as follows:

Latitude $36^{\circ} 01.3' N.$ Longitude $112^{\circ} 24.3' W.$

The mean magnetic declination is $14\frac{1}{2}^{\circ} E.$

Dependent Resurvey of a Portion of the South Boundary
T. 31 N., R. 1 W., Gila and Salt River Meridian, Arizona

Restoring the survey executed by W. O. Secor, in 1900

Beginning at the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the Tp., monumented with a limestone, 16 x 12 x 6 ins., firmly set 10 ins. in the ground, mkd. with 4 grooves on the E. and 2 grooves on the W. faces, with a mound of stone, 3 ft. base, 1 ft. high, N. of cor.

At the corner point

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

T31N R1W
S 32 | S 33
S 5 | S 4
T30N

1975

Bury original cor. stone alongside iron post, and rebuild mound of stone, 3 ft. base, 2 ft. high, N. of cor.

Cor. is located in fence bearing E. and W.

Dependent Resurvey, Portion of the South Boundary
T. 31 N., R. 1 W., G&SR Mer., Arizona

CHAINS	
40.17	<p>S. 89° 43' W., bet. secs. 5 and 32.</p> <p>Over gently rolling land along a fence, through scattered timber and moderate undergrowth.</p> <p>The 1/4 sec. cor. of secs. 5 and 32, monumented with a limestone, 32 x 20 x 5 ins., loosely set in a small mound of stone, mkd. 1/4 32 on N. face.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 6 ins. in the ground, supported with a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T31N R1W</p> <p>1/4 $\frac{S\ 32}{S\ 5}$</p> <p>T30N</p> <p>1975</p> </div> <p>Deposit original cor. stone in the mound alongside iron post.</p> <p>Cor. is located in fence, bears E. and W.</p>
16.20	<p>S. 89° 42' W., beginning new measurement.</p> <p>Over nearly level land along a fence, bearing E. and W.</p> <p>Trail road, bears N. and S.</p>
40.13	<p>The cor. of secs. 5, 6, 31, and 32, monumented with a limestone, 30 x 16 x 8 ins., mkd. with 5 notches on E. and 1 notch on W. edges, firmly set 16 ins. in ground, in small mound of stone, 2 ft. base.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, in a collar of stone. with brass cap mkd.</p> <div style="text-align: center;"> <p>T31N R1W</p> <p>S 31 S 32</p> <p>S 6 S 5</p> <p>T30N</p> <p>1975</p> </div> <p>Deposit original cor. stone in a mound of stone, 3 ft. base, 2 ft. high, N. of the cor.</p> <p>Cor. is located in fence, bears E. and W.</p>
40.20	<p>S. 89° 45' W., bet. secs. 6 and 31.</p> <p>Over rolling land along a fence, bearing E. and W., through scattered timber and moderate underground.</p> <p>The 1/4 sec. cor. of secs. 6 and 31, monumented with a limestone, 26 x 18 x 6 ins., mkd. 1/4 31 on N. face, firmly set on bedrock, supported with a mound of stone, 2 ft. base, 1 ft. high.</p>

Dependent Resurvey, Portion of the South Boundary
T. 31 N., R. 1 W., G&SR Mer., Arizona

CHAINS

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., over an "X" chiseled in bedrock, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.

T31N R1W
1/4 $\frac{S\ 31}{S\ 6}$
T30N

1975

Deposit original cor. stone in the mound of stone alongside the iron post.

Cor. is located in fence, bears E. and W.

S. 89° 40' W., beginning new measurement.

Over rolling land along a fence, bearing E. and W.

39.52

The cor. of Tps. 30 and 31 N., Rs. 1 and 2 W., monumented with a limestone, 36 x 8 x 8 ins., firmly set on bedrock, supported with a mound of stone, 3 ft. base, 2 ft. high, mkd. with 6 notches on each edge, R1W on NE, T30N on SE, R2W on SW, and T31N on NW faces.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., over an "X" chiseled on bedrock, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.

T31N
R2W R1W
 $\frac{S\ 36\ | S\ 31}{S\ 1\ | S\ 6}$
T30N

1975

Deposit original cor. stone in the mound of stone alongside iron post.

Cor. is located in fence, bears E. and W.

Dependent Resurvey, Portion of the Subdivisional Lines
T. 31 N., R. 1 W., Gila and Salt River Meridian, Arizona

Restoring the survey executed by W. O. Secor, in 1900

From the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the Tp.

N. 0° 17' W., bet. secs. 32 and 33.

Over rolling land through scattered timber and dense undergrowth.

Dependent Resurvey, Portion of the Subdivisional Lines
T. 31 N., R. 1 W., G&SR Mer., Arizona

CHAINS

40.25

The 1/4 sec. cor. of secs. 32 and 33, monumented with a limestone, 24 x 10 x 4 ins., loosely set in small mound of stone, mkd. 1/4 on W. face, from which the original bearing trees:

A pinon, 10 ins. diam., bears N. 12° 20' E., 72 lks. dist., with scribe marks 1/4 S33 BT visible on open blaze.

A pinon, 6 ins. diam., bears N. 85° W., 112 lks. dist., with scribe marks 1/4 S32 BT visible on open blaze.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 6 ins. in the ground, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.

T31N R1W
1/4

S 32 | S 33

1975

Deposit original cor. stone in the mound alongside iron post.

N. 0° 22' E., beginning new measurement.

Over rolling land.

40.27

The cor. of secs. 28, 29, 32, and 33, monumented with a limestone, 22 x 18 x 8 ins., firmly set 8 ins. in ground, supported with a mound of stone, 2 ft. base, 1 ft. high, mkd. with 1 notch on S. and 4 notches on E. edges, from which remains of the original bearing trees:

A root hole, bears S. 33° 20' E., 9 lks. dist., with a down juniper alongside, 12 ins. diam., with scribe marks S33 BT visible on open blaze.

A juniper 14 ins. diam., bears SW, 6 lks. dist., with scribe marks T31N R1W visible on open blaze.

A pinon, 12 ins. diam., bears N. 14° 20' W., 41 lks. dist., with scribe marks T31N R1W S29 BT. visible on open blaze.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 15 ins. in the ground, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.

T31N R1W
S 29 | S 28
S 32 | S 33

1975

Deposit original cor. stone in the mound alongside iron post.

Dependent Resurvey, Portion of the Subdivisional Lines
T. 31 N., R. 1 W., G&SR Mer., Arizona

CHAINS	
	<p>N. 0° 14' W., bet. secs. 28 and 29.</p> <p>Over rolling land, through scattered timber and dense undergrowth.</p>
37.40	Ridge, bears NW and SE.
40.25	<p>The 1/4 sec. cor. of secs. 28 and 29, monumented with a limestone, 20 x 10 x 7 ins., firmly set 15 ins. in the ground, mkd. 1/4 on W. face, with mound of stone, 3 ft. base, 1 ft. high, E. of cor.</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> <div style="text-align: center;"> <p>T31N R1W 1/4</p> <p>S 29 S 28</p> <p>1975</p> </div> <p>Bury original cor. stone alongside iron post.</p> <p>Cor. is located 50 ft. below ridge and 50 ft. above draw, drains NW.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0° 12' W., beginning new measurement.</p> <p>Over rolling land.</p>
8.20	Heather Wash, drains W.
8.40	Trail road, bears E. and W.
15.70	Same wash, drains SSE.
16.20	Trail road, bears NNW and SSE.
30.80	Same wash, drains W., also trail road in wash, bears E. and W.; ascend steep limestone ledges, 340 ft. high.
36.00	Top of ledges, bears E. and W.; continue over gently rolling land.
40.11	<p>The cor. of secs. 20, 21, 28, and 29, monumented with a limestone, 24 x 16 x 7 ins., firmly set in a mound of stone, 4 ft. base, 2 ft. high, mkd. with 4 grooves on E. and 2 grooves on S. faces, from which the remains of the original bearing trees:</p> <p style="padding-left: 40px;">A pinon, 15 ins. diam., bears N. 60° E., 132 lks. dist., with scribe marks T31N R1W S21 BT visible on open blaze.</p> <p style="padding-left: 40px;">A root hole, bears S. 76° 35' E., 188 lks. dist., with a down and decayed pinon alongside, size indeterminate, no marks visible.</p>

Dependent Resurvey, Portion of the Subdivisional Lines
T. 31 N., R. 1 W., G&SR Mer., Arizona

CHAINS	
	<p>A root hole, bears S. 57½° W., 82 lks. dist., with a down and decayed pinon alongside, size indeterminate, with fragmentary scribe marks visible on remains of blaze.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 14 ins. in the ground, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T31N R1W S 20 S 21 S 29 S 28</p> <p style="text-align: center;">1975</p> <p>Bury original cor. stone alongside iron post, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.</p>
40.18	<p>N. 0° 09' W., bet. secs. 20 and 21.</p> <p>Over gently rolling land, through scattered timber and dense undergrowth.</p> <p>The 1/4 sec. cor. of secs. 20 and 21, monumented with a broken limestone, 24 x 16 x 6 ins., firmly set in a mound of stone, 3 ft. base, 1½ ft. high, mkd. 1/4 on W. face.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 4 ins. in broken limestone, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T31N R1W 1/4 S 20 S 21</p> <p style="text-align: center;">1975</p> <p>Deposit original cor. stone in the mound alongside iron post.</p>
26.20	<p>N. 0° 18' W., beginning new measurement.</p> <p>Over gently rolling land.</p> <p>Draw, drains W.</p>
40.15	<p>The cor. of secs. 16, 17, 20, and 21, monumented with a limestone, 16 x 12 x 8 ins., firmly set 10 ins. in the ground, in a collar of stone, 3 ft. base, mkd. with 4 grooves on E. and 3 grooves on S. faces, from which the remains of the original bearing trees:</p> <p>A pinon, 8 ins. diam., bears N. 21 3/4° E., 108 lks. dist., with scribe marks T31N R1W S16 BT visible on open blaze. (Record, N. 22° 20' E.)</p>

Dependent Resurvey, Portion of the Subdivisional Lines
T. 31 N., R. 1 W., G&SR Mer., Arizona

CHAINS	
	<p>A root hole, bears S. 51° 05' E., 115 lks. dist., with a down and decayed pinon alongside, size indeterminate, with fragmentary scribe marks visible on remains of blaze.</p> <p>A juniper, 15 ins. diam., bears S. 76° 05' W., 46 lks. dist., with scribe marks T31N R1W S20 BT visible on open blaze.</p> <p>A juniper, 12 ins. diam., bears N. 5° W., 156 lks. dist., with scribe marks T31N R1W S17 BT visible on open blaze. (Record, 154 lks.)</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, in a collar of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T31N R1W S 17 S 16 S 20 S 21</p> <p>1975</p> </div> <p>Bury original cor. stone alongside iron post, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.</p>
	<p>N. 0° 01' W., bet. secs. 16 and 17.</p> <p>Over rolling land, through scattered timber and dense undergrowth.</p>
36.00	<p>Draw, drains W.</p>
40.17	<p>The 1/4 sec. cor. of secs. 16 and 17, monumented with a limestone, 16 x 12 x 3 ins., firmly set in a mound of stone, 2 ft. base, 1½ ft. high, mkd. 1/4 on W. face.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 10 ins. in the ground, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T31N R1W 1/4 S 17 S 16</p> <p>1975</p> </div> <p>Deposit original cor. stone in the mound alongside iron post.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0° 02' E., beginning new measurement.</p> <p>Over gently rolling land.</p>

Dependent Resurvey, Portion of the Subdivisional Lines
T. 31 N., R. 1 W., G&SR Mer., Arizona

<p>CHAINS</p> <p>40.18</p>	<p>The cor. of secs. 8, 9, 16, and 17, monumented with a limestone, 30 x 12 x 8 ins., loosely set in mound of stone, 2 ft. base, 1 ft. high, mkd. with 4 grooves on S. and E. faces, from which the remains of the original bearing trees:</p> <p style="padding-left: 40px;">A pinon, 8 ins. diam., bears N. 61½° E., 148 lks. dist., with scribe marks T31N R1W S9 BT visible on open blaze. (Record, juniper)</p> <p style="padding-left: 40px;">A dead juniper, 12 ins. diam., bears S. 70° 40' E., 84 lks. dist., with scribe marks T31N R1W S16 BT visible on open blaze.</p> <p style="padding-left: 40px;">A juniper, 12 ins. diam., bears S. 36° 50' W., 220 lks. dist., with scribe marks T31N R1W S17 BT visible on open blaze.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 10 ins. in the ground, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center; margin: 20px 0;"> <p>T31N R1W</p> <p style="margin-left: 40px;">S 8 S 9</p> <hr style="width: 50%; margin: 0 auto;"/> <p style="margin-left: 40px;">S 17 S 16</p> <p>1975</p> </div> <p>from which new bearing trees</p> <p style="padding-left: 40px;">A pinon, 8 ins. diam., bears S. 58¼° E., 118 lks. dist., mkd. T31N R1W S16 BT.</p> <p style="padding-left: 40px;">A pinon, 6 ins. diam., bears N. 44 3/4° W., 157 lks. dist., mkd. T31N R1W S8 BT.</p> <p>Deposit original cor. stone in the mound alongside iron post.</p>
<p>40.05</p>	<p>N. 0° 06' E., bet. secs. 8 and 9.</p> <p>Over rolling land, through moderate timber and dense undergrowth.</p> <p>The 1/4 sec. cor. of sec. 8 and 9, monumented with a limestone, 16 x 16 x 6 ins., loosely set in a mound of stone, 2 ft. base, 1 ft. high, mkd. 1/4 on W. face.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 15 ins. in the ground, supported with a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center; margin: 20px 0;"> <p>T31N R1W</p> <p style="margin-left: 40px;">1/4</p> <hr style="width: 50%; margin: 0 auto;"/> <p style="margin-left: 40px;">S 8 S 9</p> <p>1975</p> </div>

Dependent Resurvey, Portion of the Subdivisional Lines
T. 31 N., R. 1 W., G&SR Mer., Arizona

CHAINS

Deposit original cor. stone in the mound alongside iron post.

N. 0° 08' W., beginning new measurement.

Over rolling land.

5.80 Prairie Wash, drains W.

30.50 Trail road, bears NW and SE.

40.20 The cor. of secs. 4, 5, 8, and 9, monumented with an iron post, 2½ ins. diam., firmly set, projecting 8 ins. above ground, and in a collar of stone, 2½ ft. base, to top, with brass cap mkd.

T31N R1W
S 5 | S 4
S 8 | S 9

1973

from which the remains of the original bearing trees

A root hole, bears N. 80° E., 272 lks. dist., with a down pinon alongside, 24 ins. diam., with scribe marks T31N R1W S9 BT. visible on open blaze.

A pinon, 15 ins. diam., bears N. 3° W., 57 lks. dist., with scribe marks T31N R1W S5 BT visible on open blaze.

and a bearing tree mkd. in 1973

A pinon, 12 ins. diam., bears N. 81° E., 273 lks. dist., with scribe marks T31N R1W S4 BT visible on open blaze.

N. 0° 15' W., bet. secs. 4 and 5.

Over gently rolling land, through scattered timber and dense undergrowth.

40.21 The 1/4 sec. cor. of secs. 4 and 5, monumented with an iron post, 2½ ins. diam., firmly set, projecting 15 ins. above ground, supported with a mound of stone, 3½ ft. base, to top, with brass cap mkd.

T31N R1W
1/4

S 5 | S 4

1973

from which bearing trees not of record

Dependent Resurvey, Portion of the Subdivisional Lines
T. 31 N., R. 1 W., G&SR Mer., Arizona

CHAINS

A pinon, 10 ins. diam., bears S. 16 3/4° E., 61½ lks. dist., with scribe marks 1/4 S4 BT visible on open blaze.

A pinon, 8 ins. diam., bears S. 78½° W., 77 lks. dist., with scribed marks 1/4 S5 BT visible on open blaze.

N. 0° 50' W., beginning new measurement.

Over nearly level land.

40.17 The cor. of secs. 4, 5, 32, and 33, on N. bdy. of the Tp., monumented with an iron post, 2½ ins. diam., firmly set, projecting 22 ins. above ground, supported with a mound of stone, 4 ft. base, to top, with brass cap mkd.

T32N R1W
S 32 | S 33
S 5 | S 4
T31N

1973

from which the remains of the original bearing trees

A pinon, 6 ins. diam., bears N. 62° E., 69 lks. dist., with scribe marks T32N R1W S33 BT visible on open blaze.

A pinon, 10 ins. diam., bears S. 34° W., 152 lks. dist., with scribe marks T31N R1W S5 BT visible on open blaze.

A pinon, 12 ins. diam., bears N. 32 W., 76 lks. dist., with scribe marks T32N R1W S32 BT visible on open blaze.

and a bearing tree mkd. in 1973

A pinon, 14 ins. diam., bears S. 46° E., 86 lks. dist., with scribe marks T31N R1W S4 BT visible on open blaze.

General Description

The lands included in the notes of the foregoing survey are located about 18 miles west of the town of Grand Canyon, Arizona. The terrain is generally rolling to nearly level. Elevations range from about 5,700 feet above sea level near the 1/4 section corner of sections 6 and 31, on the south boundary of the township, to about 6,200 feet above sea level near the corner of sections 4, 5, 32, and 33, on the north boundary of the township. The area is drained by Prairie Wash, Heather Wash, Pasture Wash, and a number of their tributaries.

Access into the area is by way of a few unimproved trail roads that lead from Grand Canyon, Arizona.

Soil in the area is composed of rocky loam varying from a few inches to several feet in depth.

T. 31 N., R. 1 W., Gila and Salt River Meridian, Arizona

CHAINS

Timber consists of pinon and juniper; with undergrowth of light to dense sagebrush.

The area is used exclusively for grazing. No mineral deposits were noted during the course of the survey.

The average of a considerable number of readings throughout the area gives a value of $14\frac{1}{2}^{\circ}$ E. for the mean magnetic declination. There is a range of 2° in local attraction.

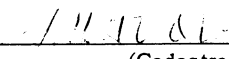
CHAINS

CERTIFICATE OF SURVEY

(I) ~~(We)~~ Gilbert V. Olson, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 23rd day of May, 1975, (I) ~~(We)~~ have dependently resurveyed a portion of the south boundary and subdivisional lines, Township 31 North, Range 1 West,

of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by (me), ~~(us)~~ and under (my) ~~(our)~~ direction; and that said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

February 17, 1977
(Date)


(Cadastral Surveyor)
GILBERT V. OLSON

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Washington, D.C.

The foregoing field notes of the dependent resurvey of a portion of the south boundary and subdivisional lines, Township 31 North, Range 1 West, Gila and Salt River Meridian, Arizona

executed by Gilbert V. Olson, Supervisory Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

FEB 14 1979
(Date)


(Chief, Division of Cadastral Survey)

CERTIFICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in, is a true copy of the original field notes.

(Date)

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