

BOOK 4537
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original
FIELD NOTES

of the

Survey

of the

East and North Boundaries

of

Township 41 North, Range 6 East

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Donald E. Harding, Cadastral Surveyor

Under special instructions dated August 16, 1954, which provided
for the surveys included under Group No. 293, approved August 20, 1954
and assignment instructions dated November 20, 1956

Survey commenced December 14, 1956

Survey completed January 17, 1957

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INDEX DIAGRAM

Township 41 North, Range 6 East

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Township 41 North, Range 6 East

Chains

The south bdy. of this township (Tenth Standard Parallel North) was surveyed by Hiester and Gould in 1927. The south $5\frac{1}{2}$ miles of the west bdy. were surveyed by Kinsey, Wakeman, Wier, and Greene in 1937.

The survey was executed with a W. and L. E. Gurley solar transit, serial No. 541332, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition and placed in proper adjustment prior to the beginning of the survey. The azimuths of the lines were established and checked by direct solar method from time to time throughout the survey.

Measurements were made with Chicago steel tape, 8 chains in length, graduated every $\frac{1}{10}$ link for the first link, every link for the next 99 links, and every 10 links thereafter. The tape was tested by comparison with a standard tape and found correct. Measurements were made on the slope, and the vertical angle of each interval was ascertained by a clinometer in good adjustment. The horizontal equivalents only are entered in this field note record.

The following ~~field notes~~ field notes are those of the survey of the east and north boundaries of the township.

On December 14, 1956, at 9:00 a.m. at the cor. of Ts. 41 N., Rs. 6 and 7 E., the following direct solar observation was made:

Mean vertical angle	12° 07' 27"
Mean horizontal angle	48° 16' 30"
Latitude of the station	36° 54' 14"
Declination	23° 14' 30"
Bearing of the sun	S. 48° 14' 00" E.
True bearing of object sighted	S. 0° 02' 30" W.

The geographic position of the SE. cor. of the township is in latitude $36^{\circ} 54' 14''$ N. and longitude $111^{\circ} 41' 28.47''$ W. The mean magnetic declination is 15° E.

Survey of the East Bdy., T. 41 N., R. 6 E.

From the standard Tp. cor. of Ts. 41 N., Rs. 6 and 7 E., which is monumented with an iron post, set, mkd. and witnessed, as described in the official record.

North, bet. secs. 31 and 36.

Over rolling land, through scattered timber and undergrowth.

Desc. 50 ft. over gentle N. slope.

15.00 Draw, drains N. 40° E.; asc. 45 ft. over SE. slope.

35.00 Rim of bench, bears N. 20° E. and S. 20° W.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 36.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with brass cap mkd.

T41N
R6E R7E
 $\frac{1}{4}$
S 36 | S 31
1956

from which

Survey of the East Bdy., T. 41 N., R. 6 E.

Chains

A cedar, 12 ins. diam., bears N. 58° E., 103 lks. dist.,
mkd. $\frac{1}{4}$ S31 BT.

A cedar, 10 ins. diam., bears N. $85\frac{1}{2}^{\circ}$ W., 239 lks. dist.,
mkd. $\frac{1}{4}$ S36 BT.

43.70 Rim of bench, bears E. and NW.; desc. 103 ft. over N. slope.

60.10 Small wash, drains E.; asc. 50 ft. over S. slope of knoll.

69.70 Top of ascent, W. side of knoll; desc. 35 ft. over NW. slope.

80.00 Point for the cor. of secs. 25, 30, 31 and 36.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground,
with brass cap mkd.

T41N
R6E R7E
S 25 | S 30
S 36 | S 31
1956

from which

A cedar, 10 ins. diam., bears N. 88° E., 2.41 lks. dist.,
mkd. T41N R7E S30 BT.

A cedar, 10 ins. diam., bears S. 54° E., 302 lks. dist.,
mkd. T41N R7E S31 BT.

A cedar, 12 ins. diam., bears S. $56\frac{3}{4}^{\circ}$ W., 313 lks. dist.,
mkd. T41N R6E S36 BT.

A cedar, 18 ins. diam., bears N. $33\frac{1}{2}^{\circ}$ W., 363 lks. dist.,
mkd. T41N R6E S25 BT.

Land, rolling.

Soil, sandy clay.

Timber, scattered cedar and pinon.

Undergrowth, scattered sagebrush, Mormon tea, cacti, and fair grass.

North, bet. secs. 25 and 30.

Desc. 115 ft. over gentle N. slope, through scattered timber and
undergrowth.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 25 and 30.

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

T41N
R6E R7E
 $\frac{1}{4}$
S 25 | S 30
1956

from which

A cedar, 8 ins. diam., bears N. $26\frac{1}{2}^{\circ}$ E., 13 lks. dist.,
mkd. $\frac{1}{4}$ S30 BT.

A cedar, 8 ins. diam., bears N. $46\frac{1}{4}^{\circ}$ W., 42 lks. dist.,
mkd. $\frac{1}{4}$ S25 BT.

Desc. 30 ft. over N. slope.

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Survey of the East Bdy., T. 41 N., R. 6 E.

Chains	
50.30	Small wash, drains N. 80° E.
55.40	Small wash, drains N. 45° E.; asc. 30 ft. over SE. slope.
62.10	Top of spur, slopes E.; desc. 30 ft. over NE. slope.
71.00	Slope changes to S.; asc. 30 ft.
80.00	Point for the cor. of secs. 19, 24, 25 and 30.
	Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.
	T41N R6E R7E S 24 S 19 S 25 S 30 1956
	from which
	A pinon, 6 ins. diam., bears N. 51½° E., 175 lks. dist., mkd. T41N R7E S19 BT.
	A pinon, 30 ins. diam., bears N. 72¼° W., 297 lks. dist., mkd. T41N R6E S24 BT.
	Land, rolling. Soil, sandy clay. Timber, scattered cedar and pinon. Undergrowth, scattered sagebrush, Mormon tea, cacti, and fair grass.
	North, bet. secs. 19 and 24.
	Asc. 105 ft. over broken SW. slope.
8.80	Long slender knoll, bears NW. and SE.
9.70	Edge of cliffs, on S. side of Paria River, bears NW. and SE.
	From this point the following notes are taken from scaling on U. S. Geological Quadrangle Sheet. The distance across Paria Canyon is by triangulation.
9.80	Desc. 900 ft. over nearly vertical cliff.
25.00	Wash in steep canyon, drains N. 20° E., thence over E. slope.
38.00	Short steep spur, slopes NE.; desc. 140 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 19 and 24, not monumented; desc. 1400 ft. over cliffs and ledges of N. slope.
72.70	Paria River, with water 50 lks. wide, 3 ft. deep, flows SE.; asc. 100 ft. over S. slope.
80.00	Point for the cor. of secs. 13, 18, 19 and 24, not monumented.
	Land, mountainous. Soil, sandy clay. Timber, scattered cedar and pinon. Undergrowth, scattered sagebrush, Mormon tea, cacti and grass.

Survey of the East Bdy., T. 41 N., R. 6 E.

Chains	
	North, bet. secs. 13 and 18.
	The following topography taken from U. S. Geological Quadrangle Sheet.
	Asc. 1680 ft. over cliffs and ledges facing S.
20.00	Top of cliffs, bears WNW. and ENE.; asc. 400 ft. over S. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 13 and 18.
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., over a cross (X) cut in solid rock, in a mound of stone to top, with brass cap mkd.
	T41N R6E R7E $\frac{1}{4}$ S 13 S 18 1957
	from which
	A pinon, 5 ins. diam., bears N. 68° E., 108 lks. dist., mkd. $\frac{1}{4}$ S18 BT.
	A pinon, 14 ins. diam., bears N. 65° W., 53 lks. dist., mkd. $\frac{1}{4}$ S13 BT.
	Asc. 160 ft. over broken SSW. slope.
44.90	N. rim of Paria Canyon, bears N. 80° W. and S. 80° E.; desc. 85 ft. over gentle N. slope.
80.00	Point for the cor. of secs. 7, 12, 13 and 18.
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 22 ins. in the ground, with brass cap mkd.
	T41N R6E R7E S 12 S 7 S 13 S 18 1957
	deposit charcoal at base of post for witness.
	Land, mountainous.
	Soil, sandy clay.
	Timber, very scattered cedar and pinon.
	Undergrowth, scattered sagebrush, Mormon tea, cacti, and good grass.
	North, bet. secs. 7 and 12.
	Desc. 60 ft. over gentle N. slope.
24.50	S. rim of small rincon, bears W. and ESE.; desc. 200 ft. over ledges on N. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 7 and 12.
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, in a mound of stone to top, with brass cap mkd.

Survey of the East Bdy., T. 41 N., R. 6 E.

Chains

T41N
R6E R7E
 $\frac{1}{4}$
S 12 | S 7
1957

from which

A pinon, 7 ins. diam., bears S. 40° E., 54 lks. dist.,
mkd. $\frac{1}{4}$ S7 BT.

A pinon, 6 ins. diam., bears S. 84° W., 27 lks. dist.,
mkd. $\frac{1}{4}$ S12 BT.

Asc. 185 ft. over ESE. slope.

67.00 Spur, slopes E.; desc. 50 ft. over NE. slope.

80.00 Point for the cor. of secs. 1, 6, 7 and 12.

Set an iron post, 14 ins. long, 1 in. diam., with a brass tablet,
 $3\frac{1}{4}$ ins. diam., $3\frac{1}{2}$ ins. stem, riveted in top of pipe 8 ins. in a
drill hole, in solid rock, with brass tablet mkd.

T41N
R6E R7E
S 1 | S 6
S12 | S 7
1957

from which

A pinon, 10 ins. diam., bears N. 64° E., 70 lks. dist.,
mkd. T41N R7E S6 BT.

A cedar, 10 ins. diam., bears S. 87° W., 151 lks. dist.,
mkd. T41N R6E S12 BT.

Land, rolling.

Soil, sandy clay.

Timber, very scattered cedar and pinon.

Undergrowth, scattered sagebrush, Mormon tea, cacti, and good grass.

North, bet. secs. 1 and 6.

7.00 Small wash, drains E.; asc. 105 ft. over SE. slope.

15.60 N. rim of rincon, bears NE. and SW.; desc. 30 ft. over gentle N.
slope.40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 6.

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 22 ins. in the ground,
with brass cap mkd.

T41N
R6E R7E
 $\frac{1}{4}$
S 1 | S 6
1957

deposit a sandstone, 5 x 4 x 3 ins., mkd. with a cross (X) at the
base of the post for witness.

Desc. 70 ft. over gentle N. slope.

Survey of the East Bdy., T. 41 N., R. 6 E.

Chains

- 65.50 Small wash, drains N. 60° E.
 70.00 Small wash, drains N. 75° E.
 78.20 Small wash, drains N. 75° E.
 80.00 Point for the cor. of Ts. 41 and 42 N., Rs. 6 and 7 E.

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.

T42N
 R6E R7E
S 36 | S 31
 S 1 | S 6
 T41N
 1957

from which

A cedar, 4 ins. diam., bears N. 71° W., 8 lks. dist., mkd. BT. only.

raise a mound of stone, $2\frac{1}{2}$ ft. base, 2 ft. high, W. of cor.

Land, gently rolling.

Soil, sandy clay.

Timber, very scattered cedar.

Undergrowth, scattered sagebrush, Mormon tea, cacti, and good grass.

Survey of the North Bdy., T. 41 N., R. 6 E.

From the cor. of Ts. 41 and 42 N., Rs. 6 and 7 E., monumented with an iron post, heretofore described.

S. 89° 59' W., bet. secs. 1 and 36.

Asc. 30 ft. over gentle grassy E. slope.

- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 36.

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 12 ins. in the ground in a mound of stone to top, with brass cap mkd.

T42N R6E
 $\frac{1}{4}$ S 36
 S 1
 T41N
 1957

Asc. 50 ft. over gentle grassy E. slope.

- 80.00 Point for the cor. of secs. 1, 2, 35 and 36.

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.

T42N R6E
S 35 | S 36
 S 2 | S 1
 T41N
 1957

deposit a sandstone, 4 x 3 x 2 ins., mkd. with a cross (X), at the base of the post for witness.

Survey of the North Bdy., T. 41 N., R. 6 E.

Chains

Land, nearly level.
Soil, sandy clay.
Timber, none; undergrowth, very scattered sagebrush, Mormon tea,
and good grass.

S. 89° 59' W., bet. secs. 2 and 35.

Asc. 15 ft. over E. slope.

13.90 Low flat ridge, bears N. 30° E. and S. 30° W.; desc. 45 ft. over gentle W. slope, through very scattered cedars.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 35.Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.

T42N R6E
 $\frac{1}{4}$ S 35
S 2
T41N
1957

deposit a sandstone, 5 x 4 x 2 ins., mkd. with a cross (X), at the base of the post for witness.

Desc. 40 ft. over W. slope.

65.00 Slope changes to N.; desc. 45 ft.

80.00 Point for the cor. of secs. 2, 3, 34 and 35.

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground, in a mound of stone to top, with brass cap mkd.

T42N R6E
S 34 | S 35
S 3 | S 2
T41N
1957

Land, rolling.
Soil, sandy clay.
Timber, very scattered cedars.
Undergrowth, scattered sagebrush, Mormon tea, and fair grass.

S. 89° 59' W., bet. secs. 3 and 34.

Desc. 130 ft. over NW. slope, through scattered timber.

28.70 Rim rock, bears SW. and NE.; desc. 130 ft. over W. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 3 and 34.Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground with brass cap mkd.

T42N R6E
 $\frac{1}{4}$ S 34
S 3
T41N
1957

deposit a sandstone, 6 x 4 x 2 ins., mkd. with a cross (X), at the base of the post for witness.

Survey of the North Bdy., T. 41 N., R. 6 E.

Chains	
	Desc. 85 ft. over W. slope.
63.50	Small wash, drains N. 60° W.; desc. 25 ft. over W. slope.
80.00	Point for the cor. of secs. 3, 4, 33 and 34.
	Set an iron post, 28 ins. long, 2½ ins. diam., 16 ins. in the ground, in a mound of stone to top, with brass cap mkd.
	T42N R6E <u>S 33 S 34</u> S 4 S 3 T41N 1957
	Land, rolling.
	Soil, sandy clay.
	Timber, very scattered cedars.
	Undergrowth, scattered greasewood, Mormon tea, and fair grass.
	S. 89° 59' W., bet. secs. 4 and 33.
	Desc. 75 ft. over W. slope.
12.50	Draw, drains SW., thence over gentle W. slope.
40.00	Point for the ¼ sec. cor. of secs. 4 and 33.
	Set an iron post, 28 ins. long, 2½ ins. diam., 15 ins. in the ground, in a mound of stone to top, with brass cap mkd.
	T42N R6E ¼ <u>S 33</u> S 4 T41N 1957
47.60	SW. rim of bench, bears N. 40° W. and SE.
55.50	Same rim, bears NE. and SW.
56.20	Desc. along S. edge of same rim.
62.95	W. rim of same bench, rim bears NE. and S. 20° W.; desc. 120 ft. over ledges facing W.
67.00	Foot of slope, thence across nearly level land.
80.00	Point for the cor. of secs. 4, 5, 32 and 33.
	Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.
	T42N R6E <u>S 32 S 33</u> S 5 S 4 T41N 1957
	raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.
	Land, rolling.
	Soil, sandy clay.
	Timber, very scattered cedars.
	Undergrowth, scattered sagebrush, Mormon tea, and fair grass.

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Survey of the North Bdy., T. 41 N., R. 6 E.

Chains

S. 89° 59' W., bet. secs. 5 and 32.

Desc. 230 ft. over rolling W. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 5 and 32.Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.

T42N R6E	
$\frac{1}{4}$	S 32
	S 5
T41N	
1957	

from which

A pinon, 6 ins. diam., bears S. 80 $\frac{1}{2}$ ° W., 230 lks. dist., mkd. BT only.

42.40 E. rim of Paria Canyon.

From this point the distance is by triangulation. The following topography was scaled from U. S. G. S. Quadrangle Sheet.

Desc. 320 ft. over cliffs facing NW.

49.10 Wash in canyon, drains SW.; asc. 200 ft. over ledges on SE. slope.

59.70 Short steep spur, slopes S.; desc. 520 ft. over cliffs and ledges facing SSW.

77.00 Foot of cliffs in the Paria River bottom, water 50 lks. wide, 3 ft. deep, drains SE.

80.00 Point for the cor. of secs. 5, 6, 31 and 32, falls in the Paria River, impossible to monument. The witness cor. bears S. 89° 59' W. 10 chs. dist.

Land, mountainous.

Soil, sandy clay.

Timber, very scattered cedars and pinon.

Undergrowth, scattered sagebrush, Mormon tea, and fair grass.

S. 89° 59' W., bet. secs. 6 and 31.

Asc. up the bottom of the Paria River.

9.80 Foot of cliff 700 ft. high.

9.80 Top of cliff.

10.00 Point selected for the witness cor. of secs. 5, 6, 31 and 32.

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.

T42N R6E	
S 31	S 32
S 6	S 5
T41N	
1957	

deposit a sandstone, 5 x 3 x 2 ins., mkd. with a cross (X), at the base of the post for witness.

Survey of the North Bdy., T. 41 N., R. 6 E.

Chains

This cor. is set on a ledge 20 ft. wide (E. and W.) and 50 ft. long (N. and S.)

Thence by chaining

Asc. 85 ft. over cliff facing E.

11.10 SW. rim of Paria River Canyon, bears NW. and ESE., thence over rolling N. slope.

16.90 Low spur, slopes N.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 6 and 31.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with brass cap mkd.

T42N R6E
 $\frac{1}{4}$ $\frac{S\ 31}{S\ 6}$
 T41N
 1956

deposit a sandstone, 4 x 4 x 3 ins., mkd. with a cross (X), at the base of the post for witness.

Desc. 120 ft. over NW. slope.

58.90 Slope changes to W.; desc. 200 ft.

The following topography was scaled from U. S. Geological Quadrangle Sheet.

64.20 Top of cliff, bears N. and S.; desc. 600 ft.

73.30 Wash, in canyon, drains N.; asc. 120 ft. over ENE. slope.

79.45 True point for the cor. of Ts. 41 and 42 E., Rs. 5 and 6 E., not occupied nor monumented.

Land, mountainous.

Soil, sandy clay.

Timber, very scattered cedars.

Undergrowth, scattered sagebrush, Mormon tea, and good grass.

West Bdy. of T. 41 N., R. 6 E.

The survey of the west bdy. in 1937 was stopped at 64.56 chs. of the sixth mile on the S. rim of the Paria Canyon. This point was monumented by a large stone set firmly in a mound of stone, as it was impossible to continue the survey of the west bdy. beyond this point. This mound of stone now becomes a point on line as a reference to the true point for the township cor.

General Description, T. 41 N., R. 6 E.

Chains

Most of this township is high table land or mesa with sandy clay soil and very scattered cedar and pinon trees and fairly good grass. However, water is very scarce. The only permanent water is in the Paria River Canyon which bisects this township from the NW. cor. through and out the center of the E. bdy., which cannot be entered by man or beast from either side. There are no roads, and no one is living within the boundaries of this township. The only revenue to be derived from this land is grazing.

CERTIFICATE OF CADASTRAL ENGINEER

I, Donald E. Harding, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 16th day of August, 1954,

I have surveyed the east and north boundaries of Township 41 North, Range 6 East.

of the G. and S. R. Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah
August 12, 1957

Donald E. Harding
Donald E. Harding, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., DEC 30 1957, 19

The foregoing field notes of the survey of the east and north boundaries of Township 41 North, Range 6 East.

executed by Donald E. Harding, Cadastral Surveyor.

having been critically examined and found correct, are hereby approved.

Donald Clement
Acting Cadastral Engineering Staff Officer.

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.

Cadastral Engineering Staff Officer.