



BOOK 4916  
INDEX DIAGRAM

Township 1 North, Range 13 and 14 East,

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Tract No. 40 . . . pp., 1-8  
Tract No. 41 . . . pp. 9-11

(A)

Townships 1 North, Ranges 13 and 14 East  
Gila and Salt River Meridian, Arizona

## CHAINS

The following field notes are those of the (metes-and-bounds) survey of Tracts No. 40 and No. 41 in unsurveyed Townships 1 North, Ranges 13 and 14 East, Gila and Salt River Meridian, Arizona.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1947, and the special instructions dated May 20, 1971.

The directions of all lines of this survey were determined by direct altitude observation on the sun, for azimuth and carried forward by normal transit traverse. Distances are expressed in chains, reduced to horizontal equivalents.

The data furnished with the special instructions give the geographic position of the standard corner of Townships 1 North, Ranges 13 and 14 East, as: Latitude  $33^{\circ} 22.7'$  N., and Longitude  $110^{\circ} 58.8'$  W., mean magnetic declination  $14^{\circ}$  East.

## Memorandum

The corner positions of this metes-and-bounds survey of Tracts No. 40 and No. 41, in unsurveyed Township 1 North, Range 14 East, are harmoniously accepted by the Cities Service Company, Miami Copper Operations, the applicant for the land exchange, and the U. S. Department of Agriculture, Forest Service, the grantor.

Survey of Tract No. 40 in Unsurveyed  
Townships 1 North, Ranges 13 and 14 East  
Gila and Salt River Meridian, Arizona

The standard corner of Tps. 1 N., Rs. 13 and 14 E., which is monumented with a stone, 10x10x5 ins. above the top of a mound of stone, 4 ft. base, 16 ins. high, the stone is marked with 6 grooves on the E., N., and W., and a cross (+) chiseled on the top.

substantiated by:

A juniper, 10 ins. in diam., bears N.  $19^{\circ}$  E., 52 lks. dist., scribed T1N R14E S31 BT.

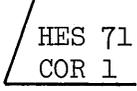
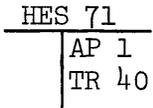
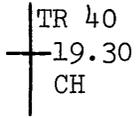
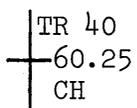
The Gila and Salt River Base Line on which the above standard cor. is located, was surveyed by A. T. Colton, U. S. Deputy Surveyor, in 1899. I did not remonument this corner point.

Corner No. 1, Homestead Entry Survey No. 71, the claim of M. L. Horrell, which is monumented with a quartz stone, 22x14x6 ins., mkd. HL HES 71 on the NE. and a cross (+) chiseled on top, firmly set 14 ins. in the ground.

substantiated by:

A juniper, 24 ins. in diam., bears S.  $13^{\circ} 51'$  W., 184 lks. dist., scribed H No. 1 WHI.

Survey of Tract No. 40 in Unsurveyed  
Townships 1 North, Ranges 13 and 14 East  
Gila and Salt River Meridian, Arizona

CHAINS	
	<p>At the corner point</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  <p>HES 71 COR 1</p> </div> <p style="text-align: center;">1971</p> <p>deposit the quartz stone monument alongside the iron post, and raise a mound of stone, 2½ ft. base, 1½ ft. high, NE. of the corner.</p> <hr/> <p>The point for Angle Point No. 1 of Tract No. 40.</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diam., 15 ins. in the ground, and in a mound of stone, 2½ ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;">  <p>HES 71 AP 1 TR 40</p> </div> <p style="text-align: center;">1971</p> <p>raise a mound of stone, 2½ ft. base, 1½ ft. high, SE. of the corner.</p> <p>This corner point is located on line 1-7 (the southern boundary) of Homestead Entry Survey No. 71.</p> <p>From this corner point Corner No. 1 of Homestead Entry Survey No. 71, heretofore described, bears N. 89° 20' 18" W., 10.846 chs. distance.</p> <hr style="width: 20%; margin: auto;"/> <p>S. 0° 00' 13" W., on line 1-2.</p>
19.30	<p>Set an iron post, 30 ins. long, 2½ ins. in diam., 22 ins. in the ground, for station 19.30 chs. dist; with brass cap mkd.</p> <div style="text-align: center;">  <p>TR 40 19.30 CH</p> </div> <p style="text-align: center;">1971</p> <p>raise a mound of stone, 3 ft. base, 1½ ft. high E. of the corner.</p>
60.25	<p>Set an iron post, 30 ins. long, 2½ ins. in diam., 18 ins. in the ground, and in a mound of stone, 3 ft. base, to top, for station 60.25 chs. dist; with brass cap mkd.</p> <div style="text-align: center;">  <p>TR 40 60.25 CH</p> </div> <p style="text-align: center;">1971</p>

Survey of Tract No. 40 in Unsurveyed  
Townships 1 North, Ranges 13 and 14 East  
Gila and Salt River Meridian, Arizona

CHAINS	
85.29	<p>Set an iron post, 30 ins. long, 2½ ins. in diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base, to top, for station 85.29 chs. dist.; with brass cap mkd.</p> <p style="text-align: center;">             TR 40            +---85.29              CH              1971         </p>
118.98	<p>Set an iron post, 30 ins. long, 2½ ins. in diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base, to top, for station 118.98 chs. dist.; with brass cap mkd.</p> <p style="text-align: center;">             TR 40            +---118.98              CH              1971         </p>
146.88	<p>Set an iron post, 30 ins. long, 2½ ins. in diam., 21 ins. in the ground, for station 146.88 chs. dist.; with brass cap mkd.</p> <p style="text-align: center;">             TR 40            +---146.88              CH              1971         </p> <p>raise a mound of stone, 3 ft. base, 1½ ft. high, E. of the corner.</p>
158.217	<p>The point for Angle Point No. 2.</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">             TR 40              AP 2            / 1971         </p> <p>raise a mound of stone, 3 ft. base, 1½ ft. high, E. of the corner.</p> <hr style="width: 20%; margin: 10px auto;"/>
53.764	<p>The point for Angle Point No. 3.</p> <p>Set a regulation brass tablet, 3½ ins. in diam., 3 in. stem, seated flush with the surface of bedrock, with brass tablet mkd.</p> <p style="text-align: center;">           &lt; TR 40            &lt; AP 3            &lt; 1971         </p>

Survey of Tract No. 40 in Unsurveyed  
Townships 1 North, Ranges 13 and 14 East  
Gila and Salt River Meridian, Arizona

CHAINS	
55.344	<p>raise a mound of stone, 3 ft. base, 1½ ft. high, E. of the corner.</p> <hr/> <p>S. 12° 25' 57" E., on line 3-4.</p> <p>The point for Angle Point No. 4.</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base, to top, with brass cap mkd.</p> <div data-bbox="812 766 933 913" style="text-align: center;"> <p>TR 40 AP 4 1971</p> </div>
37.446	<p>raise a mound of stone, 3 ft. base, 1½ ft. high, E. of the corner.</p> <hr/> <p>S. 64° 03' 02" E., on line 4-5.</p> <p>The point for Angle Point No. 5.</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.</p> <div data-bbox="763 1370 933 1518" style="text-align: center;"> <p>TR 40 AP 5 1971</p> </div>
46.515	<p>raise a mound of stone, 2½ ft. base, 1½ ft. high, NE. of the corner.</p> <hr/> <p>S. 13° 57' 32" E., on line 5-6.</p> <p>The point for Angle Point No. 6.</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div data-bbox="812 1935 933 2096" style="text-align: center;"> <p>TR 40 AP 6 1971</p> </div>
38.22	<p>S. 34° 14' 29" E., on line 6-7.</p> <p>Corner No. 3, Mineral Survey No. 2840, Crown Point No. 7 Lode, which is monumented with a steel pipe, 4 ins. in diam., projecting 18 ins. above a concrete block, which has a 1 ft. square base and projects 6 ins. above the surface of the ground.</p> <p>substantiated by:</p>

Survey of Tract No. 40 in Unsurveyed  
Townships 1 North, Ranges 13 and 14 East  
Gila and Salt River Meridian, Arizona

CHAINS

A stone-in-place, 5x5x3 ft., bears N. 74° 23' E.,  
57 lks. dist., mkd. + 2840 BR.

I did not remonument this corner point.

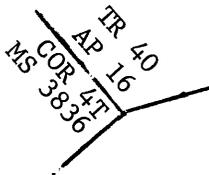
This corner point is designated as Angle Point No. 7.

Thence from Angle Point No. 7 along the recorded bound-  
aries of several approved mineral surveys to Angle Point  
No. 16. Due to extensive mining operations, a number of  
the mineral survey corners were not occupied. These  
corners were not remonumented but have been designated  
as Angle Points of Tract No. 40.

Corner No. 4, Mineral Survey No. 3836, Tarmon Lode,  
determined at record course and record distance from  
Corners No. 1 and No. 3. There is no evidence of the  
original corner.

At the corner point

Set an iron post, 30 ins. long, 2-1/2 ins. in diam.,  
12 ins. in the ground, and in a mound of stone, 3 ft.  
base, to top, with brass cap mkd.



1971

This corner point is designated as Angle Point No. 16

From this corner point the standard corner of Tps. 1 N.,  
Rs. 13 and 14 E., heretofore described, bears S. 29° 56'  
28" W., 56.761 chs. distance.

Thence,

N. 54° 59' 35" E., on line 16-17.

33.038 Corner No. 2, Pinto Valley No. 242 Lode and identical  
with Corner No. 4, Pinto Valley No. 243 Lode,  
Mineral Survey No. 4686, this corner point is designated  
as Angle Point No. 17.

Thence from Angle Point No. 17, along recorded boundaries  
of approved mineral surveys to Angle Point No. 20.  
Angle Point Nos. 18 and 19 are corners of approved  
mineral surveys; however, these points were not occupied  
or monumented in this survey.

Corner No. 3, Mineral Survey No. 4686, Pinto Valley No.  
245 Lode, this corner point is designated as Angle Point  
No. 20.

Thence,

N. 11° 20' 38" E., on line 20-21.

Survey of Tract No. 40 in Unsurveyed  
Townships 1 North, Ranges 13 and 14 East  
Gila and Salt River Meridian, Arizona

CHAINS

17.206 Corner No. 4, Mineral Survey No. 3562, Scorpion Lode, and identical with Corner No. 2; Mineral Survey No. 3570, Grey Eagle Lode, this corner point is designated as Angle Point No. 21.

---

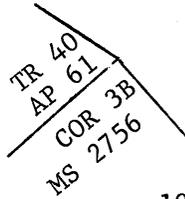
Thence from Angle Point No. 21 along the recorded boundaries of several approved mineral surveys to Angle Point No. 61. Due to extensive mining operations, a number of the mineral survey corners were not occupied. These corners were not remonumented but have been designated as Angle Points of Tract No. 40.

---

Corner No. 3, Mineral Survey No. 2756, Baltimore Lode, which is monumented with a wooden post, 4 ft. long, 4 ins. square, scribed 2756B, firmly set 12 ins. in the ground, and in a mound of stone, 3-1/2 ft. base, 1-1/2 ft. high.

At the corner point

Set an iron post, 30 ins. long, 2-1/2 ins. in diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.



1971

deposit the wooden post monument alongside the iron post.

This corner point is designated as Angle Point No. 61.

---

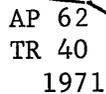
Thence, leave the boundaries of mineral claims and continue with the metes-and-bounds survey.

---

N. 56° 05' 09" W., on line 61-62.

19.897 The point for Angle Point No. 62.

Set an iron post, 30 ins. long, 2-1/2 ins. in diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.



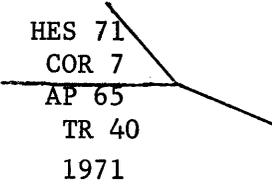

---

N. 73° 55' 23" W., on line 62-63.

Survey of Tract No. 40 in Unsurveyed  
Townships 1 North, Ranges 13 and 14 East  
Gila and Salt River Meridian, Arizona

CHAINS	
28.165	<p>The point for Angle Point No. 63.</p> <p>Set an iron post, 30 ins. long, 2-1/2 ins. in diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div data-bbox="779 537 990 739" style="text-align: center;"> <p>AP 63 TR 40</p> <p>1971</p> </div> <p>raise a mound of stone, 3 ft. base, 2 ft. high, SW. of the corner.</p> <p>N. 16° 46' 50" W., on line 63-64.</p>
58.36	<p>Set an iron post, 30 ins. long, 2-1/2 ins. in diam., 21 ins. in the ground, for station 58.36 chs. dist.; with brass cap mkd.</p> <div data-bbox="876 1115 998 1303" style="text-align: center;"> <p>TR 40 58.36 CH</p> <p>1971</p> </div>
123.17	<p>Set an iron post, 30 ins. long, 2-1/2 ins. in diam., 21 ins. in the ground, for station 123.17 chs. dist.; with brass cap mkd.</p> <div data-bbox="860 1478 1006 1680" style="text-align: center;"> <p>TR 40 123.17 CH</p> <p>1971</p> </div>
168.972	<p>The point for Angle Point No. 64</p> <p>Set an iron post, 30 ins. long, 2-1/2 ins. in diam., 22 ins. in the ground, with brass cap mkd.</p> <div data-bbox="844 1881 974 2136" style="text-align: center;"> <p>AP 64 TR 40</p> <p>1971</p> </div> <p>N. 67° 38' 55" W., on line 64-65.</p>
51.81	<p>Set an iron post, 30 ins. long, 2-1/2 ins. in diam., 18 ins. in the ground, and in a mound of stone, 3 ft. base, to top, for station 51.81 chs. dist., with brass cap mkd.</p> <div data-bbox="779 2405 966 2567" style="text-align: center;"> <p>TR 40 51.81 CH</p> <p>1971</p> </div>

Survey of Tract No. 40 in Unsurveyed  
Townships 1 North, Ranges 13 and 14 East  
Gila and Salt River Meridian, Arizona

CHAINS	
78.882	<p>Corner No. 7, Homestead Entry Survey No. 71, which is monumented with a stone, 17x9x9 ins., mkd. 71 7HES on the N., firmly set 6 ins. in the ground.</p> <p>At the corner point</p> <p>Set an iron post, 30 ins. long, 2-1/2 ins. in diam., 21 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  <p>HES 71 COR 7 AP 65 TR 40 1971</p> </div> <p>deposit the stone monument alongside the iron post and raise a mound of stone, 2-1/2 ft. base, 1-1/2 ft. high, NW. of the corner.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 89° 20' 18" W., on line 65-1, and along line 7-1 of Homestead Entry Survey No. 71.</p>
43.342	<p>Angle Point No. 1, the place of beginning</p> <hr/> <p>Thence, record course and record distance of Mineral Survey No. 3609, Proxy Lode, an area of which is to be excluded from the metes-and-bounds survey of Tract No. 40.</p> <hr/> <p>Beginning at Corner No. 3, Mineral Survey No. 3609, Proxy Lode, which is designated as Angle Point No. 66, Tract No. 40.</p> <p>From this corner point Corner No. 4, Mineral Survey No. 3667, King of Gold Gulch Lode, which is designated as Angle Point No. 41, Tract No. 40, bears N. 73° 43' 57" W., 9.719 chs. distance.</p> <hr/> <p>S. 1° 08' W., on line 66-67, and along line 3-2, Mineral Survey No. 3609, Proxy Lode.</p> <p>22.727 Corner No. 2, Mineral Survey No. 3609, Proxy Lode, this corner point is designated as Angle Point No. 67.</p> <hr/> <p>9.091 Corner No. 1, Mineral Survey No. 3609, Proxy Lode, this corner point is designated as Angle Point No. 68.</p> <hr/> <p>N. 1° 08' E., on line 68-69, and along line 1-4, Mineral Survey No. 3609, Proxy Lode.</p> <p>22.727 Corner No. 4, Mineral Survey No. 3609, Proxy Lode, this corner point is designated as Angle Point No. 69.</p> <hr/> <p>N. 88° 52' W., on line 69-66, and along line 4-3, Mineral Survey No. 3609, Proxy Lode.</p> <p>9.091 Corner No. 3, Mineral Survey No. 3609, Proxy Lode, which is designated as Angle Point No. 66, the place of beginning</p>

Survey of Tract No. 41 in Unsurveyed  
Township 1 North, Range 14 East  
Gila and Salt River Meridian, Arizona

CHAINS

Survey of Tract No. 41 in Unsurveyed  
Township 1 North, Range 14 East  
Gila and Salt River Meridian, Arizona

U. S. Mineral Monument No. 3, which is marked with a  
steel pipe, 3 ins. in diam., firmly set, projecting  
15 ins. above the ground, with a brass plug mkd.

U S  
MINERAL  
MON  
NO 3

substantiated by:

A juniper, 12 ins. in diam., bears S. 5° 19' E.,  
105 lks. dist., scribed X BT 2756.

This corner point is identical with Corner No. 4, General  
No. 110, Continental Lode and identical with Corner No.  
1, Mineral Survey No. 2756, Tunnel Lode.

Beginning at Corner No. 2, Mineral Survey No. 3667, East  
End Lode, which is monumented with a stone, 12x8x8 ins.,  
mkd. 2EE 3667 on the S., firmly set 8 ins. in the ground.

At the corner point

Set an iron post, 30 ins. long, 2-1/2 ins. in diam.,  
10 ins. in the ground, and in a mound of stone, 3 ft.  
base, to top, with brass cap mkd.

MS 3667  
COR 2EE  
AP 1  
TR 41  
SL  
MS 3561

1971

This corner point is designated as Angle Point No. 1,  
Tract No. 41.

From this corner point, U. S. Mineral Monument No. 3,  
heretofore described, bears N. 50° 08' 28" E., 77.907 chs  
distance.

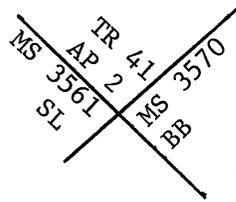
S. 50° 08' E., on line 1-2, and along line 4-1, Mineral  
Survey No. 3561, Sulphide Lode.

Survey of Tract No. 41 in Unsurveyed  
Township 1 North, Range 14 East  
Gila and Salt River Meridian, Arizona

CHAINS

0.877 Intersect line 3-4, Mineral Survey No. 3570, Belle of the Brambles Lode, this point of intersection is designated as Angle Point No. 2.

Set an iron post, 30 ins. long, 2-1/2 ins. in diam., 16 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.



1971

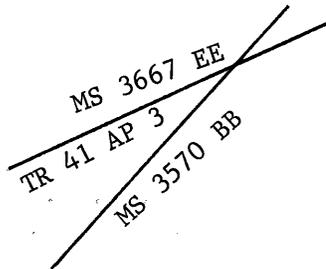
From this corner point Corner No. 3, Mineral Survey No. 3570, Belle of the Brambles Lode, bears S. 45° 00' W., 10.206 chs. dist., which is monumented with a wood post, 4 ins. square, scribed 3BB 3570 on the E., firmly set, projecting 18 ins. above the surface of the ground.

---

N. 45° 00' E., on line 2-3, and along line 3-4, Mineral Survey No. 3570, Belle of the Brambles Lode.

2.339 Intersect line 1-2, Mineral Survey No. 3667, East End Lode, this point of intersection is designated as Angle Point No. 3.

Set an iron post, 30 ins. long, 2-1/2 ins. in diam., 12 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.



1971

---

S. 64° 52' W., on line 3-1, and along line 1-2, Mineral Survey No. 3667, East End Lode.

Survey of Tract No. 41 in Unsurveyed  
Township 1 North, Range 14 East  
Gila and Salt River Meridian, Arizona

CHAINS

2.571 Corner No. 2, Mineral Survey No. 3667, East End Lode,  
which is designated as Angle Point No. 1, the place of  
beginning.

General Description

The land within the metes-and-bounds survey of Tract No.  
40 and No. 41 is rough and broken; the soil is rocky;  
timber consists of paloverde, catclaw acacia, and  
juniper; cacti family, saguaro, jumping cholla, buckhorn  
cholla, and prickly pear; undergrowth, ocotillo, yucca,  
brush, and grass.

Form 9180-8  
(March 1969)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
NOTE: Field assistants for the metes-and-bounds survey of Tracts No. 40 and No. 41 were furnished by the Cities Service Company, Miami Copper Operations, the applicant for the land exchange, and are as follows:	
Clifford R. Cline	Registered Land Surveyor
Cleo M. Medlock	Party Chief
William A. Endors	Surveying Aid
David N. Peterson	Surveying Aid
Michael L. Smith	Surveying Aid
Kenneth M. Byrne	Surveying Aid

3

CERTIFICATE OF SURVEY

(I) ~~XXX~~ Ray Harpin, HEREBY

CERTIFY upon honor that, in pursuance of special instructions bearing date of the 20th day of May, 1971, (I) ~~(ME)~~ have surveyed (the metes-and-bounds survey) Tracts No. 40 and No. 41 in unsurveyed Townships 1 North, Ranges 13 and 14 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 (me), (me) and under (my) (me) 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.

August 13, 1971  
(Date)

*Ray Harpin*  
(Cadastral Surveyor)  
Ray Harpin

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

SUBMITTED FOR APPROVAL  
Date AUG 20 1971

BUREAU OF LAND MANAGEMENT  
Washington, D.C.

The foregoing field notes of the survey of Tracts No. 40 and No. 41 in unsurveyed Townships 1 North, Ranges 13 and 14 East, Gila and Salt River Meridian, Arizona

executed by Ray Harpin

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

MAR 13 1972  
(Date)

*Clark F. Gumm*  
(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) SPO 849-626