

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF

A PORTION OF THE WEST BOUNDARY

AND

A PORTION OF THE SUBDIVISIONAL LINES

TOWNSHIP 5 SOUTH, RANGE 7 EAST,

Of the GILA AND SALT RIVER Meridian,

In the State of ARIZONA

EXECUTED BY

Harold W. Heimark, Cadastral Surveyor

Under the Supervision of

William M. Smart, Chief, Branch of Cadastral Surveys
Western Field Office

^{supplemental}
Under special instructions dated February 16, 19 77, approved February 28, 1977,

_____, which provided for the surveys included under U.S. Survey/Group
Number 587, and assignment instructions dated March 4, 19 77.

Survey commenced March 4, 19 77

Survey completed March 9, 19 77

1A

BOOK 5075

INDEX DIAGRAM

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2

8

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6

5

Dependent Resurvey, Portion of T. 5 S., R. 7 E.,
Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the west boundary and a portion of the subdivisional lines of Township 5 South, Range 7 East, Gila and Salt River Meridian, Arizona.

The history of surveys of Township 5 South, Range 7 East, Gila and Salt River Meridian, Arizona, is as follows:

The south boundary (First Standard Parallel South), a portion of the west boundary, and a portion of the subdivisional lines were surveyed by Wilfred F. and George P. Ingalls, U.S. Deputy Surveyors, in 1868, as shown on the official plat of survey approved April 16, 1869. The north and west boundaries were surveyed by Ralph W. Norris, U.S. Deputy Surveyor, in 1869. A portion of the north boundary, the east boundary, and a portion of the First Standard Parallel South were resurveyed, and a portion of the subdivisional lines were surveyed by Daniel Drummond, U.S. Deputy Surveyor, in 1891, as shown on the official plat of survey approved May 26, 1892. A portion of the north, east, and west boundaries and a portion of the subdivisional lines were resurveyed, and the west boundary and subdivisional lines of the township were completed by Guy P. Harrington, U.S. Surveyor, in 1911-12, as shown on the official plat of survey approved September 2, 1920. A portion of the west boundary was resurveyed by John F. Hesse, U.S. Surveyor, in 1916, as shown on the official plat of survey of Township 5 South, Range 6 East, approved October 14, 1918. A portion of the west boundary was retraced and a portion of the subdivisional lines were resurveyed by Guy P. Harrington, Cadastral Engineer, in 1919, as shown on the official plat of survey approved September 2, 1920. The south boundary of the township (First Standard Parallel South), and a portion of the east boundary and subdivisional lines were resurveyed by Dupree R. Averill, U.S. Surveyor, Roger F. Wilson and Otis Gould, U.S. Transitmen, in 1928, as shown on the official plat of survey accepted September 11, 1929.

The resurvey was executed in accordance with specifications set forth in the Manual of Surveying Instructions, 1973, and the Supplemental Special Instructions for Group No. 587, Arizona, dated February 16, 1977.

Preliminary to the resurvey the lines of the original survey and resurveys were retraced and search was made for all corners and other calls of the record. Identified corners were rehabilitated in their original positions; lost corners were restored and re-monumented at proportionate positions based on the official record. The retrace-ment data were thoroughly verified and only the true line field notes are given herein.

The directions of all lines refer to the true meridian and were determined by means of fore- and backsights and angular deflections from azimuths obtained by direct solar observations. All lines were measured with a Hewlett-Packard, Model 3805, electronic distance measuring instrument. All distances were measured on the slope and reduced to true horizontal measurements. All lines were measured twice.

The geographic position of the corners of sections 22, 23, 26, and 27, as scaled from the U.S. Geological Survey quadrangle map, "COOLIDGE, ARIZONA", 7½ minute series, prepared in 1965, is as follows:

Dependent Resurvey, Portion of T. 5 S., R. 7 E.,
Gila and Salt River Meridian, Arizona

CHAINS

Latitude: 32° 58.0' N. Longitude: 111° 37.1' W.

The mean magnetic declination is 12° 30' E.

Dependent Resurvey of a Portion of the West Boundary
of T. 5 S., R. 7 E., Gila and Salt River Meridian, Arizona

(Restoring the 1868 survey by George P. Ingalls,
the 1916 resurvey by John F. Hesse, and
the 1919 retracement by Guy P. Harrington)

Beginning at the cor. of secs. 19, 24, 25, and 30, on the
W. bdy. of the Tp., monumented with an iron post, 3 ins.
diam., firmly set, the top 21 ins. below the center of a
gravel surfaced road, with brass cap mkd.

T 5 S	G
R 6 E	R 7 E
S 24	S 19
S 25	S 30
1916	

from which the remains of the 1916 bearing trees

An ironwood, 6 ins. diam., bears N. 82³/₄° E.,
360 lks. dist., with illegible scribe marks
visible on open blaze. (Record, N. 82° E.)

An ironwood, 10 ins. diam., bears S. 41¹/₂° E.,
75 lks. dist., with scribe marks T5S R7E
visible on open blaze. (Record, S. 41³/₄° E.)

A mesquite snag, 12 ins. diam., bears S. 36¹/₄° W.,
398 lks. dist., with scribe marks 5S R6E S25 BT
visible on open blaze.

and reference monuments of unknown origin

An iron rod, 1 in. diam., extending 6 ins. above
ground, firmly set, bears N. 44° E., 107¹/₂ lks.
dist., unmarked.

An iron pipe, 1 in. diam., extending 6 ins. above
ground, firmly set, bears S. 46¹/₄° E., 107¹/₂ lks.
dist., unmarked.

and new accessories

A steel fence corner post, 5 ft. high, set in
concrete, bears N. 88° 36' E., 46 lks. dist.,
from which fences extend northerly and easterly.

A power pole, 12 ins. diam., bears S. 37° W.,
86¹/₂ lks. dist., to the head of a bolt, mkd.
+ 1977.

N. 0° 02' W., bet. secs. 19 and 24.

Along gravel surfaced road, 40 lks. wide.

40.03

The ¹/₄ sec. cor. of secs. 19 and 24, monumented with an
iron post, 1 in. diam., firmly set, the top 4 ins. below
the surface of a gravelled road, with brass cap mkd.

Dependent Resurvey, Portion of W. Bdy.,
T. 5 S., R. 7 E., Gila and Salt River Mer., Arizona

CHAINS

$\frac{1}{4}$ S 24	S 19	G
		R
		I
	1916	R

from which the remains of the 1916 bearing trees

A sawed ironwood stump, 8 ins. diam., bears
N. $38\frac{1}{2}^\circ$ E., 214 lks. dist., with scribe marks
 $\frac{1}{4}$ S19 BT visible on open blaze.

An ironwood, 12 ins. diam., bears S. $64\frac{1}{2}^\circ$ W.,
386 lks. dist., with scribe marks $\frac{1}{4}$ S24 BT
visible on open blaze.

and reference monuments of unknown origin

An iron pipe, 1 in. diam., extending 6 ins.
above ground, firmly set, bears N. 45° E.,
64 lks. dist., unmarked and located in a
barbed wire fence extending N. and S.

An iron pipe, 1 in. diam., extending 6 ins.
above ground, firmly set, bears S. 45° E.,
64 lks. dist., unmarked.

and a new accessory

A power pole, 10 ins. diam., bears S. $54\frac{1}{4}^\circ$ W.,
 $59\frac{1}{2}$ lks. dist., to the head of a spike,
mkd. + 1977.

The cor. is located in the center of a gravel surfaced
road, bears N. and S., 46 lks. W. of a barbed wire fence
and 48 lks. E. of a power line, which bear along the road.

N. $0^\circ 04'$ E., beginning new measurement.

Along gravelled road.

40.58 The cor. of secs. 13, 18, 19, and 24, monumented with an
iron post, 3 ins. diam., firmly set, the top 6 ins. below
the surface, in the center of the road, with brass cap
mkd.

T 5 S	R 7 E	G
R 6 E		R
S 13		I
S 24	1916	R

from which the remains of the 1916 bearing trees

An ironwood, 11 ins. diam., bears N. 16° E.,
237 lks. dist., with scribe marks S18 BT
visible on open blaze.

A paloverde, 10 ins. diam., bears S. $75\frac{1}{4}^\circ$ E.,
386 lks. dist., with illegible scribe marks
visible on partially healed blaze.
(Record, S. $77\frac{1}{4}^\circ$ E.)

An ironwood snag, 8 ins. diam., bears N. $53\frac{1}{4}^\circ$ W.,
247 lks. dist., with scribe marks 5 R6E 13 BT
visible on open blaze.

Dependent Resurvey, Portion of W. Bdy.,
T. 5 S., R. 7 E., Gila and Salt River Mer., Arizona

CHAINS

and a new accessory

A power pole, 10 ins. diam., bears N. $82\frac{3}{4}^{\circ}$ W.,
51 lks. dist., to the head of a spike, mkd. X.

The cor. is located approximately in the center of a
gravel surfaced road, 40 lks. wide, 46 lks. W. of a
barbed wire fence, and 50 lks. E. of a power line, which
bear N. and S. along the road.

N. $0^{\circ} 07'$ W., bet. secs. 13 and 18.

Along easterly side of gravelled road.

- 5.00 Road curves to NE.; continue over nearly level land,
through low desert vegetation along fence.
- 7.30 Base of isolated butte, bears NE. and SW.; asc. over
rocky SE. slope.
- 9.20 From this point the end of the barbed wire fence bears
E., 46 lks. dist., fence extend S. only.
- 11.80 Top of ascent on isolated butte, bears NE. and SW.; desc.
over broken NW. slope.
- 18.40 Beginning of barbed wire fence on steel posts, extends
northerly only; continue along E. side of fence.
- 21.30 Bottom of descent at base of butte, bears NW. and SE.;
continue over nearly level land.
- 39.37 The $\frac{1}{4}$ sec. cor. of secs. 13 and 18, monumented with an
iron post, 1 in. diam., firmly set, extending 10 ins.
above ground, with brass cap mkd.

$\frac{1}{4}$ S 13 | S 18

1916

The cor. is located in a barbed wire fence which extends
N. and S., and at the SW. cor. of a dirt road, which
bears N. and E.

N. $0^{\circ} 02'$ W., beginning new measurement.

Over nearly level land, through low desert vegetation,
along barbed wire fence and dirt road.

- 0.25 Dirt road, 20 lks. wide, bears W. and S.; continue along
fence.
- 39.99 The cor. of barbed wire fences which bear S. and W.
- 40.00 The cor. of secs. 13 and 18 only, on the S. bdy. of
sec. 12, T. 5 S., R. 6 E., monumented with an iron post,
3 ins. diam., firmly set, extending 6 ins. above ground,
with brass cap mkd.

GRIR

S 12

S 13 | S 18

R 6 E | R 7 E

T 5 S

1916

Dependent Resurvey, Portion of W. Bdy.,
T. 5 S., R. 7 E., Gila and Salt River Mer., Arizona

CHAINS	<p>from which the remains of the 1916 bearing trees</p> <p>An ironwood snag, 11 ins. diam., bears S. 38° E., 399 lks. dist., with scribe marks T5 BT, legible on open blaze.</p>
	<p>Dependent Resurvey of a Portion of the Subdivisional Lines, T. 5 S., R. 7 E., Gila and Salt River Meridian, Arizona</p>
	<p>(Restoring the 1891 survey by Daniel R. Drummond and the 1919 resurvey by Guy P. Harrington)</p>
	<p>From the cor. of secs. 22, 23, 26, and 27, monumented with an iron post, 2 ins. diam., firmly set, the top 12 ins. below the surface of a gravelled road, with brass cap mkd.</p> <div style="text-align: center;"> <p>R I R T 5 S R 7 E G S 22 S 23 S 27 S 26 1919</p> </div> <p>from which new accessories</p> <p>The center of the W. edge of a concrete siphon, bears N. 46° E., 64½ lks. dist.</p> <p>A nail and metal shiner in a power pole, 10 ins. diam., bear N. 61¼° E., 54 lks. dist.</p> <p>A nail and metal shiner in a railroad tie fence post, bear S. 51¼° W., 65 lks. dist.</p> <p>A nail and metal shiner in a power line guy wire pole, 8 ins. diam., bear N. 51¼° W., 41½ lks. dist.</p> <p>There is no remaining evidence of the 1919 bearing trees.</p> <p>The cor. is located in a gravel surfaced road which bears N. and S.</p> <p>S. 89° 52' W., bet. secs. 22 and 27.</p> <p>0.25 Leave road; continue over nearly level land, through sparse desert vegetation.</p> <p>30.20 Enter a dirt road, 30 lks. wide, between fields.</p> <p>39.75 Point for the ¼ sec. cor. of secs. 22 and 27, determined by the irregular boundary method of proportioning; there is no remaining evidence of the original cor.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 34 ins. in the ground, the top 6 ins. below the surface of a dirt road, with brass cap mkd.</p> <div style="text-align: center;"> <p>G R I R T 5 S R 7 E ¼ S 22 S 27 1977</p> </div> <p>from which</p>

Dependent Resurvey, Portion of Subdivisional Lines,
T. 5 S., R. 7 E., Gila and Salt River Mer., Arizona

CHAINS

An iron post, 28 ins. long, 2½ ins. diam., set 20 ins. in the ground, for a reference monument, bears N. 45° E., 30.3 lks. dist., with brass cap mkd. ¼ S22 RM 20 FT 1977 and an arrow pointing to the cor.

An iron post, 28 ins. long, 2½ ins. diam., set 20 ins. in the ground, for a reference monument, bears N. 45° W., 30.3 lks. dist., with brass cap mkd. ¼ S22 RM 20 FT 1977 and an arrow pointing to the cor.

N. 89° 41' W., beginning new measurement.

Over nearly level land, along a dirt farm road.

40.47 The cor. of secs. 21, 22, 27, and 28, monumented with an iron post, 2 ins. diam., firmly set, extending 10 ins. above ground, with brass cap mkd.

G R I R	
T 5 S	R 7 E
S 21	S 22
S 28	S 27
1919	

The cor. is located in a wire fence which bears N. and S., 1 lk. S. of a fence post, and on the N. edge of a dirt farm road which bears E. and W.

N. 89° 50' W., bet. secs. 21 and 28.

Over nearly level land.

0.30 Dirt road, 20 lks. wide, in a curve, bears N. 75° W. curving to W. and S. 60° E. curving to E.

0.45 Leave dirt road; enter cultivated field.

40.10 Center of dirt road, 25 lks. wide, bears N. and S.

40.14 Point for the ¼ sec. cor. of secs. 21 and 28, at proportionate dist.; there is no remaining evidence of the original cor.

Set an iron post, 28 ins. long, 2½ ins. diam., 34 ins. in the ground, the top 6 ins. below the surface of a dirt road, with brass cap mkd.

T 5 S		R 7 E
G R I R		
¼ S 21		
S 28		
1977		

from which

An iron post, 28 ins. long, 2½ ins. diam., set 22 ins. in the ground, for a reference monument, bears N. 20° E., 60.6 lks. dist., with brass cap mkd. ¼ S21 RM 40 FT 1977 and an arrow pointing to the cor.

Dependent Resurvey, Portion of Subdivisional Lines,
T. 5 S., R. 7 E., Gila and Salt River Mer., Arizona

CHAINS		
	<p>An iron post, 28 ins. long, 2½ ins. diam., set 22 ins. in the ground, for a reference monument, bears N. 20° W., 60.6 lks. dist., with brass cap mkd. ¼ S21 RM 40 FT 1977 and an arrow pointing to the cor.</p> <p>From this point an iron pipe, 2½ ins. diam., set in concrete, the top flush with the surface of the road, bears S. 79½° E., 2.7 lks. dist. This monument was recently set and is of unknown origin.</p> <p>Continue over nearly level land.</p> <p>41.76 Barbed wire fence, on steel posts, bears N. and S., 26 lks. to fence cor., then N. 89½° W.; continue over nearly level land, through low desert vegetation, along N. side of fence.</p> <p>80.28 The cor. of secs. 20, 21, 28, and 29, monumented with an iron post, firmly set in a mound of stone, 3 ft. base, 1½ ft. high, with brass cap mkd.</p> <div style="text-align: center;"> <p>G R I R</p> <p>T 5 S R 7 E</p> <p> S 20 S 21</p> <p> S 29 S 28</p> <p> 1919</p> </div> <p>from which the remaining 1919 bearing tree</p> <p style="padding-left: 40px;">A paloverde, 10 ins. diam., bears S. 37½° E., 67 lks. dist., completely healed.</p> <p>The cor. is located alongside a steel fence post, from which a barbed wire fence bears W. and S. From a point 3 lks. S. of the cor. a barbed wire fence extends E.</p>	
	<p>S. 89° 49' W., bet. secs. 20 and 29.</p> <p>Ascend gradually, through low desert vegetation, along fence.</p> <p>3.50 Begin ascent of steep and rocky E. slope, base bears NE. and SW.</p> <p>4.10 Fence ends.</p> <p>11.70 Saddle in ridge, summit of Sacaton Mountains, bears N. and S.; desc. broken and rocky SW. slope.</p> <p>14.28 E. end of barbed wire fence on steel posts, bears W.; continue along fence.</p> <p>22.20 Foot of descent, bears NW. and SE.; continue over nearly level land descending gradually.</p> <p>40.59 The ¼ sec. cor. of secs. 20 and 29, monumented with an iron post, 1 in. diam., firmly set, extending 10 ins. above ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>G R I R</p> <p> S 20</p> <p> ¼</p> <p> S 29</p> <p> 1919</p> </div>	

Dependent Resurvey, Portion of Subdivisional Lines,
T. 5 S., R. 7 E., Gila and Salt River Mer., Arizona

CHAINS

from which a new bearing tree

A paloverde, 7 ins. diam., bears N. $40\frac{1}{4}^{\circ}$ W.,
24 $\frac{1}{2}$ lks. dist., mkd. $\frac{1}{4}$ S20 BT.

There is no remaining evidence of the 1919 bearing trees.

The cor. is located in a barbed wire fence on steel posts,
1 lk. E. of a metal fence brace which is set in concrete.

S. $89^{\circ} 49'$ W., beginning new measurement.

Descend gradually, over nearly level land, through low
desert vegetation along fence.

40.09 The cor. of secs. 19, 20, 29, and 30, monumented with an
iron post, 2 ins. diam., firmly set, the top 6 ins. below
the surface of the ground, with brass cap mkd.

G R I R			
T 5 S	R 7 E		
S 19	S 20		
S 30	S 29		
1919			

From this point a monument established by R. L. Jones,
Arizona Registered Land Surveyor, in July, 1976, bears
S. 23° W., 8 lks. dist.; a reinforcing rod, $\frac{5}{8}$ in. diam.,
firmly set, extending 4 ins. above ground, with aluminum
cap, $1\frac{1}{2}$ ins. diam., mkd. 19 20 29 30 LS 5713 and a cross.

From Jones' monument, reference monuments consisting of
iron pipes, each $\frac{3}{4}$ in. diam., firmly set, extending
6 ins. above ground, bear N. $44^{\circ} 21'$ E., 107 lks. dist.,
and N. $45^{\circ} 39'$ W., 107 lks. dist., unmarked.

The corner post is now uncovered, extends 8 ins. above
ground, and is located 49 lks. N. of a barbed wire fence,
on metal post, which bears N. $89\frac{1}{4}^{\circ}$ E. and W.

S. $88^{\circ} 46'$ W., bet. secs. 19 and 30.

Over nearly level land, through low desert vegetation.

18.40 Base of isolated butte, bears N. and S.; asc. rocky
SE. slope.

25.60 Top of ascent on S. slope of butte, slopes S. 20° E.;
desc. rocky SW. slope.

36.60 Base of butte, bears NW. and SE.; desc. slightly over
nearly level land.

39.99 The $\frac{1}{4}$ sec. cor. of secs. 19 and 30, monumented with an
iron post, 1 in. diam., firmly set, the top 12 ins. below
the surface of the ground, with brass cap mkd.

G R I R	
S 19	
$\frac{1}{4}$	
S 30	
1919	

Dependent Resurvey, Portion of Subdivisional Lines,
T. 5 S., R. 7 E., Gila and Salt River Mer., Arizona

	<p>CHAINS</p>	<p>From this point a monument established and recorded by R. L. Jones, Arizona Registered Land Surveyor, in July, 1976, bears S. $13\frac{1}{4}^{\circ}$ W., 2.2 lks. dist.; a reinforcing rod, $\frac{5}{8}$ in. diam., firmly set, extending 1 in. above ground, with an aluminum cap, $1\frac{1}{2}$ ins. diam., mkd. LS 19 $\frac{1}{4}$ 30 5713 and a line and a steel fence post, firmly set, extending 4 ft. above ground, beside the monument.</p> <p>From Jones' monument, reference monuments consisting of iron pipes, each $\frac{3}{4}$ in. diam., firmly set, extending 6 ins. above ground, bear N. $43\frac{1}{2}^{\circ}$ E., 107.2 lks. dist., and N. 46° W., 107.1 lks. dist., unmarked.</p> <p>The corner post is now uncovered, extends 8 ins. above ground, and is located 25 lks. N. of a barbed wire fence, on metal posts, which bears generally E. and W.</p> <p style="text-align: center;">_____</p> <p>S. $88^{\circ} 45'$ W., beginning new measurement.</p> <p>Over nearly level land, through low desert vegetation, along N. side of barbed wire fence.</p> <p>39.27 The cor. of secs. 19, 24, 25, and 30, on the W. bdy. of the Tp., hereinbefore described.</p>	
		<p style="text-align: center;">GENERAL DESCRIPTION</p> <p>The lands included in the foregoing resurvey are situated approximately six miles northeast of the city of Casa Grande, in Pinal County, Arizona. Access is by way of several improved roads branching from Interstate Highway No. 10, at several points northeast of Casa Grande.</p> <p>The Sacaton Mountains cross the area resurveyed in a north-south direction. Elevations range from approximately 1,770 ft. above sea level on the line between sections 20 and 29 to approximately 1,530 ft. above sea level at the corner of sections 19, 24, 25, and 30 on the west boundary of the township.</p> <p>The soil in the valley area is generally of a character suitable to intensive farming. The mountains consist generally of bare lava rocks, supporting scrubby growths of paloverde, ironwood, mesquite, sagebrush, and varieties of cactus.</p> <p>The valley portions that are not being farmed are generally covered with light to moderate growth of sagebrush with scattering mesquite, paloverde, ironwood, cactus, and low desert vegetation.</p> <p>No mineral formations of consequence were noted during the course of this resurvey.</p> <p>The mean of a considerable number of observations of the magnetic declination throughout the area is $12^{\circ} 30'$ E., with no noticeable change due to local attraction.</p>	

CHAINS

CERTIFICATE OF SURVEY

(I) (~~WE~~), Harold W. Heimark, Cadastral Surveyor, HEREBY

CERTIFY upon honor that, in pursuance of ^{supplemental} special instructions bearing date of the 16th day of February, 1977, (I) (~~WE~~) have dependently resurveyed a portion of the west boundary and a portion of the subdivisional lines in Township 5 South, Range 7 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), (~~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.

May 26, 1978 (Date) Harold W. Heimark* (Cadastral Surveyor)

June 9, 1978 (Date) William M. Smith (Cadastral Surveyor) Chief, Branch of Cadastral Surveys Western Field Office

CERTIFICATE OF APPROVAL

*At the date he signed the Certificate of Survey, he was a Surveying Technician.

BUREAU OF LAND MANAGEMENT Washington, D.C.

The foregoing field notes of the dependent resurvey of a portion of the west boundary and a portion of the subdivisional lines of Township 5 South, Range 7 East, Gila and Salt River Meridian, Arizona,

executed by Harold W. Heimark, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

NOV 30 1978 (Date) [Signature] (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