

Appd #
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4-679
(April 1933)

5000 4313

FIELD NOTES

of

Dependent Resurvey of

Boundaries of Sec. 8, T. 12 S., R. 13 E.

And Survey of

Subdivision-Of-Section lines of Sec. 8,

Township 12 S., Range 13 E.

4313

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Ty White and Claude F. Warner,

Assistant Cadastral Engineers.

General Land Office

Under special instructions dated August 8, 1942, which provided for the surveys included under Group No. 240, bearing the approval of the Commissioner of the General Land Office under date of August 20, 1942, and assignment instructions dated November 23, 1942.

Survey commenced January 9, 1943.

Survey completed January 12, 1943.

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BOOK 4813

INDEX DIAGRAM.

Township 12 S., Range 13 E.

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The resurveys and surveys hereinafter described were executed with Buff solar transits Nos. 16724 and 9984 equipped with Smith solar attachments constructed in accordance with the standard specifications of the General Land Office. The instruments were in good condition and having been placed in satisfactory adjustment prior to the beginning of the resurvey and tested and found free from appreciable error were approved by the district cadastral engineer, November 23, 1942.

The directions of the lines were determined by the solar transit method. The measurements were made with Lufkin and Dietzgen steel tapes 5 chs. in length, graduated every link for the first 100 links and the balance at intervals of 10 links. The tapes were tested by comparison with a Lufkin standard steel tape and found correct. The measurements were made on the slope and the vertical angles ascertained with a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions give the geographic position of camp at Cortaro, Arizona as follows: latitude $32^{\circ}21'N$. and longitude $111^{\circ}04'36''W$.

January 9, 1943, in camp, with Buff solar transit No. 16724 at 3h46m p.m., l.m.t. or 4h10m30s p.m. by my watch which reads correct 105th. meridian time as determined by radio time signals, make an hour angle observation of Polaris east of the meridian, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal deflection angles from the east side of a power line pole about 10 chs. northerly in the direction N-E to Polaris.

Mean watch time of observation	4h 10m 30s
Watch fast of l.m.t.	0h 24m 18s
Mean horizontal deflection angle	2°48' 00"
Azimuth of Polaris	0°47' 06"
Bearing of reference point	N.2°00' 54" W.

January 9, 1943, at same station, with Buff solar transit No. 16724, make an hour angle observation on Polaris for latitude, above the pole, making four observations, two each with the telescope in direct and reversed positions, reading the vertical angles to Polaris.

Mean watch time of observation, p.m.	5h 39m 06s
Watch fast of l.m.t.	0h 24m 18s
Mean observed vertical angle	33°19'24"
Reduced latitude	32°21'12" N.

January 10, 1943, on the meridian above described, every 30 minutes from 8 to 10.30 a.m. and from 1.30 to 4 p.m., make the proper settings on the arcs of the solar attachments and ascertain that the resulting orientation of the instruments when, compared with the meridian established by Polaris observation, have a maximum error of less than 1'30".

We repeat the tests of the arcs daily by noon observations and verify the meridional indications at frequent intervals throughout the survey.

Preliminary to the resurvey, the lines of the original survey are retraced and found to be in close agreement with the official record, which was therefore adopted. Only the true line notes are given herein.

Resurvey of the Boundaries of Sec. 8, T. 12 S., R. 13 E.

Chains

Reestablishment of part of the lines of a survey executed by J. B. Wright and W. H. Elliott, Surveyors, in 1913, with the establishment of 1/16 sec. cor. and the addition of witness corners and accessories where required.

The cor. of secs. 8, 9, 16 and 17, evidenced by an iron post, set and marked as described in the official record, from which

Old bearing trees:

An ironwood, 6 ins. diam., bears N. 75° E., 56 lks. dist.; marked T 12 S R 13 E S 9 B T

An ironwood, 8 ins. diam., bears S. 51½° E., 235 lks. dist., marked T 12 S R 13 E S 16 B T

New bearing trees:

A paloverde, 8 ins. diam., bears S. 38½° W., 60 lks. dist., marked T 12 S R 13 E S 17 B T

An ironwood, 4 ins. diam., bears N. 60° W., 183 lks. dist., marked B T

Thence

N. 89° 58' W., bet. secs. 8 and 17.

Over rolling land, through scattering timber and undergrowth.

1.00 Center of graded road, bears NE and W. Thence along center of road.

7.60 Wash, 20 lks. wide, course S. 30° W.

14.89 Wash, 20 lks. wide, course S. 40° W.

39.95 The ¼ sec. cor., evidenced by an iron post, 1 in. diam., set 12 ins. below the surface of graded road, marked and witnessed as described in the official record.

At a point N. 45° E., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, as witness ¼ sec. cor., with brass cap marked

88
¼ S17

WC
1943

At a point S. 45° W., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, as witness ¼ sec. cor., with brass cap marked

88
¼ S17

WC
1943

41.85 Leave graded road, bears SW from E.

42.35 Powerline, bears S. 60° W. and N. 60° E., for about 1/4 th. thence E.

Resurvey of the Boundaries of Sec. 8, T. 12 S., R. 13 E.

Chains

52.55 Wash, 70 lks. wide, course S. 20° W.

59.92½ Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at W. 1/16 sec. cor., with brass cap mkd.

W	$\frac{10}{16}$	$\frac{S8}{S17}$
---	-----------------	------------------

1943

from which

A mesquite, 10 ins. diam., bears N. 68° E., 167 lks. dist., marked W 1/16 S 8 B T.

An ironwood, 12 ins. diam., bears S. 12° E., 210 lks. dist., marked W 1/16 S 17 B T.

60.65 Wash, 30 lks. wide, course S.

79.90 The cor. of secs. 7, 8, 17 and 18, evidenced by an iron post, 2 ins. diam., set 12 ins. below the surface of the graded road, with brass cap marked as described in the official record, from which

Old bearing trees:

An ironwood, 8 ins. diam., bears N. 48° E., 79 lks. dist., marked T 12 S R 13 E S 8 B T.

A paloverde, 6 ins. diam., bears S. 29° W., 132 lks. dist., mkd. T 12 S R 13 E S 18 B T.

New bearing trees:

An ironwood, 8 ins. diam., bears S. 56° E., 227 lks. dist., marked T 12 S R 13 E S 17 B T.

An ironwood, 6 ins. diam., bears N. 20° W., 169 lks. dist., marked T 12 S R 13 E S 7 B T.

At a point S. 45° E., 64 lks. dist:

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, at witness cor. of secs. 7, 8, 17 and 18, with brass cap mkd.

WC

T12S	R13E
S7	S8
S18	S17

1943

At a point N. 45° W., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at witness cor. of secs. 7, 8, 17 and 18, with brass cap marked

T12S	R13E
S7	S8
S18	S17

WC

1943

Resurvey of the Boundaries of Sec. 18, Twp 12 S., R. 13 E.

4

Chains

Land, rolling.
Soil, gravelly, 3rd rate.
Timber, mesquite, ironwood and paloverde; undergrowth, rabbit brush and cacti.

N. 0° 03' W., bet. secs. 7 and 8.

Over gently rolling land, along center of graded road, bears N. and S.

20.00

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. below the surface of the graded road, at S. 1/16 sec. cor., with brass cap mkd.

S 1/16

S7 | S8

1943

An ironwood, 4 ins. diam., bears N. 47° E., 90 lks. dist., marked B T.

A mesquite, 6 ins. diam., bears S. 51 1/2° W., 119 lks. dist., marked S 1/16 S 7 B T.

At a point N. 45° W., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, as witness S. 1/16 sec. cor., with brass cap mkd.

S 1/16

S7 | S8

WC
1943

At a point S. 45° E., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground as witness S. 1/16 sec. cor., with brass cap mkd.

WC
S 1/16

S7 | S8

1943

Continue along center of graded road.

34.00

Wash, 70 lks. wide, course S. 60° W.

40.00

The 1/4 sec. cor., evidenced by an iron post, 1 in. diam., set 12 ins. below the surface of graded road, with brass cap mkd. as described in the official record, from which

New bearing trees:

An ironwood, 5 ins. diam., bears S. 75 1/4° E., 58 lks. dist., marked 1/4 S 8 B T.

Resurvey of the Boundaries of Sec. 8, T. 12 S., R. 13 E.

5

Chains

An ironwood, 10 ins. diam., bears S. $51\frac{1}{2}^{\circ}$ W., 176 lks. dist., marked $\frac{1}{4}$ S 7 B T.

At a point N. 45° W., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground as witness $\frac{1}{4}$ sec. cor., with brass cap mkd.

S7/S8
WC

1943

At a point S. 45° E., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground as witness $\frac{1}{4}$ sec. cor., with brass cap mkd.

WC

S7/S8

1943

Continue along center of road.

60.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. below the surface of graded road, at N. $\frac{1}{16}$ sec. cor., with brass cap mkd.

N $\frac{1}{16}$

S7/S8
1943

from which

An ironwood, 10 ins. diam., bears S. $56\frac{1}{2}^{\circ}$ E., 183 lks. dist., marked N $\frac{1}{16}$ S 8 B T.

An ironwood, 6 ins. diam., bears N. $17\frac{3}{4}^{\circ}$ W., 202 lks. dist., mkd. N $\frac{1}{16}$ S 7 B T.

At a point N. 45° W., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground as witness N $\frac{1}{16}$ sec. cor., with brass cap mkd.

N $\frac{1}{16}$

S7/S8
WC
1943

At a point S. 45° E., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground as witness N $\frac{1}{16}$ sec. cor., with brass cap mkd.

WC
N $\frac{1}{16}$

S7/S8

1943

Resurvey of the Boundaries of Sec. 8, T. 12 S., R. 13 E.

Chains

Continue along center of graded road.

75.00 Wash, 25 lks. wide; course W.

80.00 The cor. of secs. 5, 6, 7 and 8, evidenced by an iron post, 2 ins. diam., set 12 ins. below the surface of graded road, with brass cap marked as described in the official record, from which

Old bearing trees:

An ironwood, 11 ins. diam., bears N. 40° E., 132 lks. dist., marked T 12 S R 13 E S 5 B T.

A mesquite, 9 ins. diam., bears S. 12½° E., 242 lks. dist., marked T 12 S R 13 E S 8 B T.

New bearing trees:

A mesquite, 8 ins. diam., bears S. 4¼° W., 317 lks. dist., marked T 12 S R 13 E S 7 B T.

An ironwood, 8 ins. diam., bears N. 77½° W., 58 lks. dist., marked T 12 S R 13 E S 6 B T.

At a point N. 45° W., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground as witness cor. of secs. 5, 6, 7 and 8, with brass cap mkd.

T12S R13E
S6 | S5

S7 | S8
WC
1943

At a point S. 45° E., 64 lks. dist.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground as witness cor. of secs. 5, 6, 7 and 8, with brass cap mkd.

WC
T12S R13E
S6 | S5

S7 | S8
1943

Land, gently rolling.
Soil, gravelly clay, 3rd. rate.
Timber, ironwood and mesquite; undergrowth, none.

Resurvey of the Boundaries of Sec. 8, T. 12 S., R. 13 E.

7

Chains

From the cor. of secs. 8, 9, 16 and 17.

N. 0° 02' W., bet. secs. 8 and 9.

Over gently rolling land, through scattering timber and undergrowth.

1.30 Enter graded road, bears N. from SW. Thence along center of road.

38.50 Leave road, bears N. 45° E. from S.

40.00 The $\frac{1}{4}$ sec. cor., evidenced by an iron post, 1 in. diam., set and marked as described in the official record, from which

New bearing trees:

An ironwood, 9 ins. diam., bears N. 80 $\frac{1}{2}$ ° E., 168 lks. dist., marked $\frac{1}{4}$ S 9 B T.

A mesquite, 10 ins. diam., bears N. 4° W., 73 lks. dist., marked $\frac{1}{4}$ S 8 B T.

52.75 Wash, 50 lks. wide, 2 ft. deep, course SW.

80.00 The cor. of secs. 4, 5, 8 and 9, evidenced by an iron post, 2 ins. diam., set and marked as described in the official record, from which

Old bearing trees:

An ironwood stump, 12 ins. diam., bears N. 79° E., 37 lks. dist., marked T 12 S R 13 E S 4 B T.

A mesquite, 6 ins. diam., bears S. 29 $\frac{1}{4}$ ° W., 73 lks. dist., marked T 12 S R 13 E S 8 B T.

A mesquite stump, 10 ins. diam., bears N. 34° W., 108 lks. dist., unmarked.

New bearing trees:

A mesquite, 6 ins. diam., bears N. 49° E., 290 lks. dist., marked T 12 S R 13 E S 4 B T.

A mesquite, 4 ins. diam., bears S. 79 $\frac{1}{4}$ ° E., 74 lks. dist., marked T 12 S R 13 E S 9 B T.

An iron wood, 4 ins. diam., bears N. 62 $\frac{1}{4}$ ° W., 62 lks. dist., marked T 12 S R 13 E S 5 B T.

Land, gently rolling.

Soil, gravelly, 3rd. rate.

Timber, mesquite, ironwood and paloverde; undergrowth, catsclaw, rabbit brush and cacti.

Resurvey of the Boundaries of Sec. 8, T. 12 S., R. 13 E.

8

Chains

S. 89° 59' W., bet. secs. 5 and 8.

Over rolling land, through scattering timber and undergrowth.

15.05 Wash, 30 lks. wide, 1 ft. deep, course S. 20° W.

21.75 Ungraded road, bears N. 20° W. and S. 20° E.

29.25 Wash, 20 lks. wide, 1 ft. deep, course S. 20° W.

40.00 The 1/4 sec. cor. evidenced by an iron post, 1 in. diam., set and marked as described in the official record, from which

Old bearing trees:

A mesquite, 8 ins. diam., bears N. 42° E., 62 lks. dist., marked 1/4 S 5 B T.

An ironwood (dead) 6 ins. diam., bears S. 2 1/2° E., 131 lks. dist., marked 1/4 S 8 B T.

New bearing tree:

A mesquite, 4 ins. diam., bears S. 19 1/2° W., 270 lks. dist., marked 1/4 S 8 B T.

43.80 Wash, 10 lks. wide, course S. 20° W.

60.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at W. 1/16 sec. cor., with brass cap mkd.

W 1/16 S 5

1943 from which

A mesquite, 6 ins. diam., bears N. 61 1/2° W., 137 lks. dist., marked W 1/16 S 5 B T.

An ironwood, 5 ins. diam., bears S. 44 1/2° W., 128 lks. dist., marked W 1/16 S 8 B T.

Continue over nearly level land.

76.30 Wash, 20 lks. wide, 2 ft. deep, course S. 40° W.

80.00 The cor. of secs. 5, 6, 7 and 8.

Land, gently rolling. Soil, gravelly, 3rd. rate. Timber, mesquite, ironwood and paloverde; undergrowth, catsclaw, rabbit brush and cacti.

Subdivision of Section Lines of Sec. 8, T. 12 S., R. 13 E.

From the 1/4 sec. cor. of secs. 8 and 9.

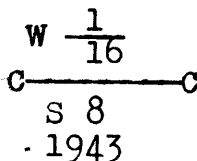
West, on E. and W. center line of sec. 8.

Over gently rolling land, through scattering timber and undergrowth.

Subdivision-of-Section Lines of Sec. 8, T. 12 S., R. 13 E.

- Chains
 0.40 Fence cor., from which fences extend N., S. and westerly. Thence along fence.
 5.00 The SW. cor. of a house, bears N. about 1 ch. distant.
 33.60 Wash, 70 lks. wide, course S. for 1 ch. then S. 60° W.
 39.88 Fence cor. bears S. 10 lks. dist., from which fences extend easterly and southerly.
 43.70 Wash, 20 lks. wide, course S. 60° W.
 60.00 Proportional distance

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at W. center 1/16 sec. cor. of sec. 8, with brass cap marked.



from which

An ironwood, 4 ins. diam., bears N. 35½° W., 41 lks. dist., marked C W 1/16 S 8 B T.

An ironwood, 4 ins. diam., bears S. 2° E., 93 lks. dist., marked C W 1/16 S 8 B T.

- 80.00 The ¼ sec. cor. of secs. 7 and 8.

Land, gently rolling.
 Soil, gravelly, 3rd. rate.
 Timber, ironwood, mesquite and paloverde; undergrowth, catsclaw and cacti.

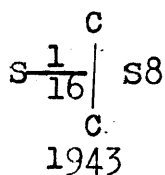
 From the ¼ sec. cor. of secs. 8 and 17.

N. 0° 03' W., on N. and S. center line of sec. 8.

Over gently rolling land, through scattering timber and undergrowth.

- 0.40 Power line, bears E. and W.
 0.50 Fence cor., bears E., 10 lks. dist., from which fences extend northerly and easterly. Thence along west side of fence.
 19.98 Proportional distance

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at S. center 1/16 sec. cor. of sec. 8, with brass cap marked.



from which

An ironwood, 10 ins. diam., bears N. 40½° E., 234 lks. dist., marked C S 1/16 S 8 B T.

A mesquite, 5 ins. diam., bears N. 88¼° W., 107 lks. dist., marked C S 1/16 S 8 B T.

Subdivision-of-Section Lines of Sec. 8, T. 12 S., R. 13 E.

10

Chains

Continue along west side of fence.

30.00 Wash, 20 lks. wide, 1 ft. deep, course SW.

39.96 Intersect E. and W. center line of sec. 8.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at center $\frac{1}{4}$ sec. cor., with brass cap mkd.C $\frac{1}{4}$ S 8

1943

from which

An ironwood, 8 ins. diam., bears S. $30\frac{1}{2}^\circ$ E., 167 lks. dist., marked C $\frac{1}{4}$ S 8 B T.A mesquite, 6 ins. diam., bears N. 59° W., 6 lks. dist., marked C $\frac{1}{4}$ S 8 B T.-----
From the center $\frac{1}{4}$ sec. cor. of sec. 8, the $\frac{1}{4}$ sec. cor. of secs. 8 and 9, bears East, 40.00 chs. dist.From the same corner, the $\frac{1}{4}$ sec. cor. of secs. 7 and 8, bears West, 40.00 chs. dist.-----
From the center $\frac{1}{4}$ sec. cor. of sec. 8.N. $0^\circ 03'$ W., on N. and S. center line of sec. 8, continuing measurement.

59.99 Proportional distance .

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at N. center $\frac{1}{16}$ sec. cor., with brass cap mkd.
$$\begin{array}{ccc} & C & \\ & | & \\ N \frac{1}{16} & | & S 8 \\ & | & \\ & C & \\ & 1943 & \end{array}$$

from which

A mesquite, 4 ins. diam., bears N. $89\frac{1}{2}^\circ$ E., 70 lks. dist., marked C N $\frac{1}{16}$ S 8 B T.An ironwood, 12 ins. diam., bears S. $43\frac{1}{2}^\circ$ W., 75 lks. dist., mkd. C N $\frac{1}{16}$ S 8 B T.80.02 The $\frac{1}{4}$ sec. cor. of secs. 5 and 8.

Land, gently rolling.

Soil, gravelly, 3rd rate.

Timber, mesquite, ironwood and paloverde; undergrowth, cacti and catsclaw.

Final Test of Instruments.

The continued satisfactory adjustment of Buff solar transits Nos. 16724 and 9984 is indicated by the Preliminary Tests of same, described in the field notes of part of the exterior lines and subdivision of T. 18 S., R. 13 E. resurveyed under this group.

T. 12 N., R. 13 E.

11

General Description.

Section 8, T. 12 S., R. 13 E., the area embraced in this survey, is located about 15 miles northwesterly from Tucson, Arizona. The land is gently rolling with an approximate elevation of 3000 ft. above sea level.

The soil is generally clay, 3rd. rate, with a clay and rocky subsoil.

A scattering growth of mesquite, ironwood and palo verde timber covers the section, with an undergrowth of cats claw, rabbit brush and cacti. The cacti is more dense in the SE. $\frac{1}{4}$ of the section.

Several small washes drain the area, their course being southerly, but they do not carry water except in times of heavy rains.

There is one resident in the east half of section 8, who has a house and other improvements. There are no settlers in the west half of the section.

A graded road is located along the line between sections 7 and 8, with a branch of same along the south and east sides of the section, from the $\frac{1}{4}$ section corner of sections 8 and 17, to the $\frac{1}{4}$ section corner of sections 8 and 9.

4-680
(Revised May 1934)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FIELD ASSISTANTS

NAMES	CAPACITY
Mike Knezevich	Principal Assistant.
Ralph L. Lee	Chainman.
Gladwin Gregory	Flagman.
Floyd Bassani	Principal Assistant.
Stanley Jarocha	Chainman.
Roy West	Flagman.

CERTIFICATE OF SURVEYOR

We, Ty White, Associate Cadastral Engineer and Claude F. Warner, Assistant Cadastral Engineer, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 8th day of August, 1942, received from the district cadastral engineer for Arizona, with assignment instructions dated November 23, 1942, ~~I have surveyed~~ we have resurveyed the boundaries and surveyed subdivision of section lines of section 8, T. 12 S., R. 13 E.

of the Gila & 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 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.

Phoenix, Arizona.

January 15, 1945.

Glendale, California.

February 19, 1945.

Ty White
Associate Cadastral Engineer,
formerly Assistant Cadastral Engineer.

Claude F. Warner
Assistant Cadastral Engineer
General Land Office

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,

Denver, Colorado, April 7, 1945.

The foregoing field notes of the ~~survey of~~ resurvey of the boundaries and survey of subdivision lines of section 8, T. 12 S., R. 13 E. of the Gila & Salt River Meridian, in the State of Arizona,

executed by Ty White and Claude F. Warner, Assistant Cadastral Engineers, under special instructions dated August 8, 1942, and assignment instructions dated November 23, 1942, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

[Signature]
Supervisor of Surveys.

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 on file in the public survey office.

Supervisor of Surveys.