

BOOK 3728

FIELD NOTES

OF THE RETRACEMENT OF

the United States- Mexico International Boundary Line between

Monuments No. 157 and No. 160,

AND OF THE SURVEY OF

the East and West Boundaries,

and all of the Subdivision lines of

FRACTIONAL TOWNSHIP 19 SOUTH, RANGE 2 WEST

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

William H. Thorn, U.S. Cadastral Engineer

In the capacity of U. S. Surveyor, under Special Instructions dated Sept. 26, 1919, issued by the United States Surveyor General to govern surveys included in Group No. 191, Arizona, which were approved by the Commissioner of the General Land Office, October 22, 1919, and Assignment Instructions dated October 17, 1925

Retracement & Survey commenced November 10, 1925.

Retracement & Survey completed December 7, 1925.

3728

3728

INDEX DIAGRAM.

Township _____, Range _____

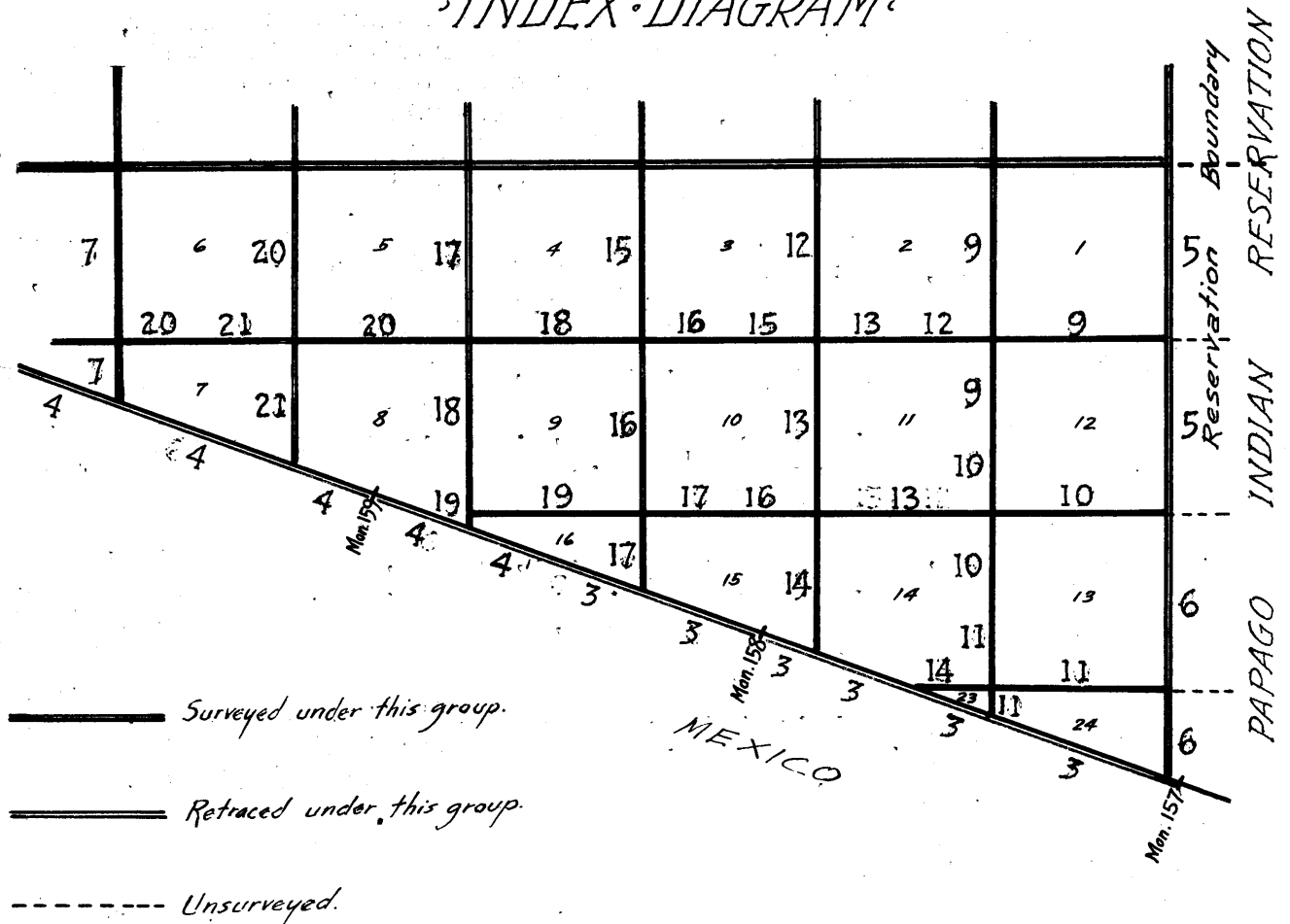
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Book "F"
Group 101 - Arizona
Fractional Township 19 South, Range 2 West
 INDEX and DATE DIAGRAMS.

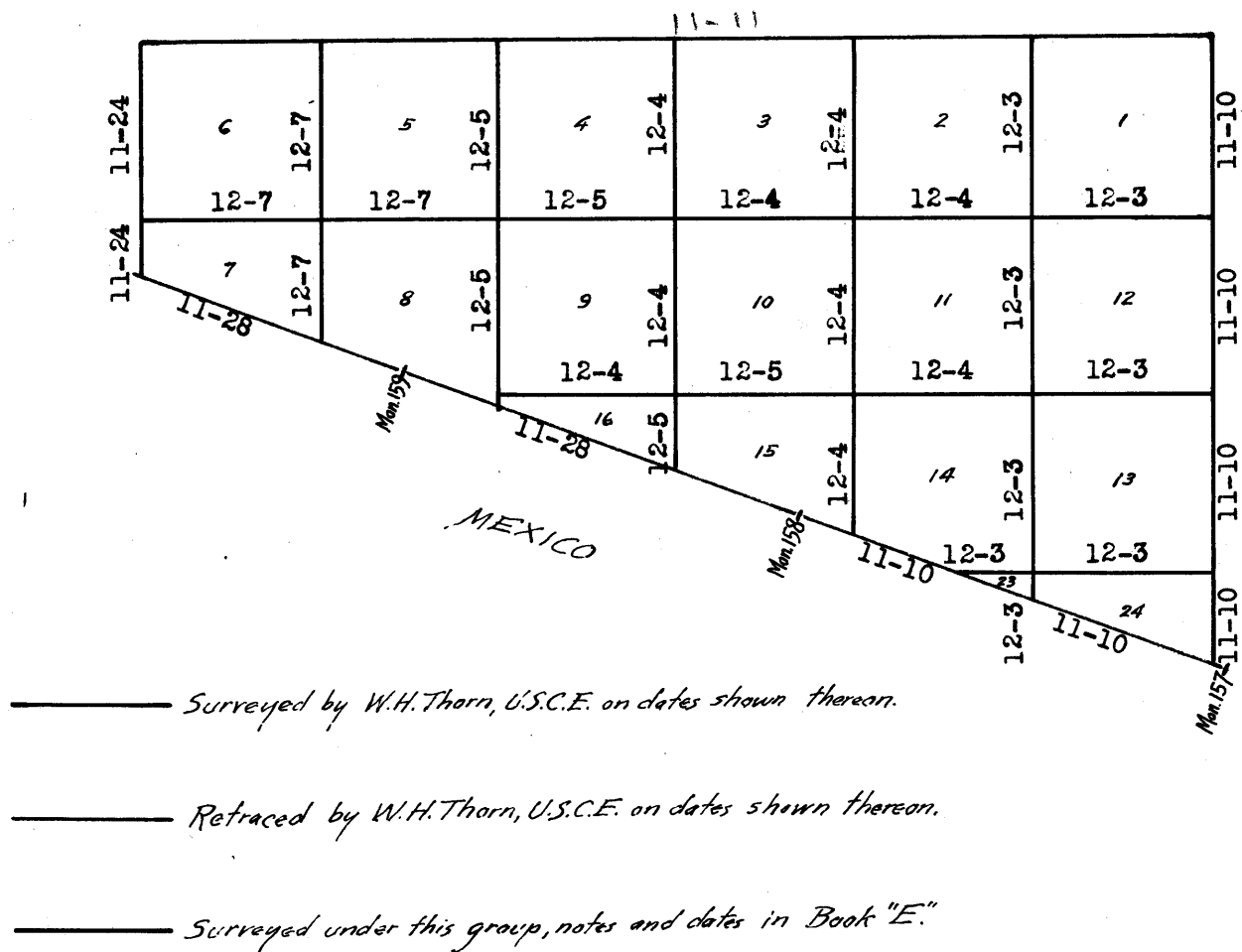
1A

BOOK 3728

INDEX DIAGRAM



DATE DIAGRAM
1925



Surveys hereinafter described were executed on dates shown on diagram on page 1 hereof, by William H. Thorn, U.S. Cadastral Engineer, using a Young and Sons' transit No. 8592. The instrument is equipped with full vertical circle and improved Smith solar attachment, the horizontal limb of which is provided with two double verniers placed opposite each other, reading to single minutes of arc, which is also the least count of the latitude and declination arcs of the solar attachment. Unless otherwise specified, all azimuth determinations are made with the solar attachment.

Nov. 10, 1925: Examine the adjustment of the instrument, and find no errors; then, to test the solar apparatus by comparing its indications from observations made during a.m. and p.m. hours, with a meridian established by Polaris observation on Oct. 29, 1925, at camp near cor. of secs. 25, 26, 35 and 36, T. 18 S., R. 3 W.; lat. $31^{\circ}49\frac{1}{2}'$ N.; longitude, $112^{\circ}32'19''$ W., as described in Book "D" of this group, proceed as follows:

Nov. 10, 1925: At 9h.00m., a.m., l.m.t., set off $31^{\circ}49\frac{1}{2}'$ N. on the lat. arc; $17^{\circ}5\frac{1}{2}'$ S. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

At 3h.00m. p.m., l.m.t., set off $31^{\circ}49\frac{1}{2}'$ N. on the lat. arc; $17^{\circ}10\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar, which agrees with the true meridian.

Unless otherwise specified, all measurements are made with a Lufkin steel tape, 5 chains in length, compared with a Lufkin standard steel tape 1 chain in length, and found correct. The measurements are made on the slope, the vertical angles determined with clinometer, and the slope measurements properly reduced to true horizontal distances.

Retracement of International Boundary, between United States and Mexico (Mon. 157 to 160).

Chains.

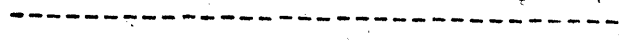
The international Boundary Line, between the United States Mexico, and between the States of Arizona and Sonora, respectively, of said countries, was surveyed in 1855, according to treaty of December 30, 1853, by a joint party of surveyors from both countries.

This line was later found to be improperly monumented and otherwise defective; therefore, between the years 1891 and 1896, the entire boundary line was resurveyed by a joint party of surveyors appointed by both countries.

In this resurvey, the monuments were of standardized design, the majority of which were made of cast iron, 6 ft. high, 12 ins. square at base, 9 ins. square at top with a pyramidal cap and flanged base 24 ins. square. These monuments were either bolted to a concrete foundation or natural rock, and each was provided with proper inscription plates and number. Other monuments were of masonry construction, to which were bolted the inscription and number plates.

All monuments were set at irregular intervals and consecutively numbered from East to West.

The following notes describe a retracement of that part of the International Boundary situate between Monuments Nos. 157 and 160.



Mon. No. 157 is a cast iron monument conforming to the standard design hereinbefore described, and firmly bolted to a concrete foundation, 4 ft. square.

Thence, N. 70° 2' W., on true line toward flag, which is visible on Mon. No. 158, setting stakes at 20 ch. intervals for determining the points of intersection of the Subdivision lines of frac. T. 19 S., R. 2 W.

Over level land, thru. dense undergrowth, parallel to wire fence, about 1 ch. N. of line.

7.03
35.05
196.53

Indian shack, brs. North 2 chs. dist.

Old road, brs. NE. and SW.

Intersect Mon. No. 158, which is a cast iron monument conforming to the standard design hereinbefore described, and firmly bolted to a concrete foundation, 4 ft. square.

True courses and distances of International Boundary Line from Mon. No. 157 to Mon. No. 158 are therefore N. 70° 2' W., 196.53 chs.

Land, level.

Soil, adobe, 2nd rate.

Timber, none.

Undergrowth, greasewood sagebrush, scrub mesquite and cactus.

From Mon. No. 158, hereinbefore described, N. 70° 3' W., on true line, toward flag, which is visible on Mon. No. 159, setting stakes at 20.00 ch. intervals, for determining the points of intersection of the Subdivision lines of frac. T. 19 S., R. 2 W.

Over level land, thru. dense undergrowth, parallel to wire fence, about 1 ch. north of line.

21.73
63.70
85.05
100.24
111.51

Wash, 10 lks. wide, course SE.

Leave level, and enter rolling land.

Ascend 156 ft., over E. slope, to

Spur, slopes NE.

Descend 50 ft., over NW. slope.

Draw, course NE.

Ascend 34 ft., over E. slope.

Spur, slopes N. Raise a mound of stone, 3 ft. base, 2 ft. high, on line at this point.

Enter mountainous land.

Descend 98 ft., over W. slope, to

BOOK 3728

Retracement of International Boundary line, between the United States and Mexico (Mon. 157 to Mon. 160)

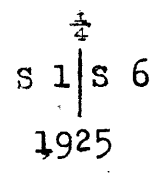
Chains.	
115.73	Enter level land.
132.70	Enter rolling land. Asc. 100 ft., over SE. slope, to
151.25	Enter mountainous land. Asc. 259 ft., over SE. slope.
163.73	Spur, slopes NE. Descend 62 ft., over NW. slope.
173.22	Bottom of ravine, 10 lks. wide, course N. 60° E. Ascend 288 ft., over NE. slope, to
190.73	Intersect Mon. No. 159 on top of a ridge bearing N. 20° W. and S. 20° E. This is a cast iron monument conforming to the standard design, hereinbefore described, and firmly bolted to a concrete foundation, 4 ft. square. The true course and dist. of International Boundary Line from Mon. No. 158 to Mon. No. 159 are therefore, N. 70° 3' W., 190.73 chs. Land, level, rolling and mountainous. Soil, adobe and rocky, 2nd and 3rd rate. Timber, none. Undergrowth, greasewood, sagebrush, scrub palo verde, mesquite, ironwood and cactus.

	From Mon. No. 159, hereinbefore described, N. 70° 5' W., on true line, toward flag, which is visible on Mon. No. 160, raising mounds of stone at irregular intervals along the line, for determining the points of intersection of the subdivision and boundary lines of frac. T. 19 S., R. 2 W.
	Over mountainous land, thru. dense undergrowth, parallel to wire fence, about 1½ chs. N. of line; Descend 450 ft., over broken SW. slope, to
27.05	Enter nearly level land.
31.05	Wash, 20 lks. wide, course N. 20° W.
42.74	Raise a mound of stone, 3 ft. base, 2 ft. high on line at this point.
66.76	Raise a mound of stone, 3 ft. base, 2 ft. high on line at this point.
96.05	Raise a mound of stone, 3 ft. base, 2 ft. high, on line at this point.
122.05	Wash, 20 lks. wide, course N. 20° E+. Enter rolling land. Ascend 52 ft., over E. slope, to
131.65	Enter mountainous land. Ascend 292 ft., over SE. slope.
156.85	Spur, slopes NE. Desc. 135 ft., over NW. slope.
164.10	Wash, 10 lks. wide, in gulch, course N. 70° E. Ascend 586 ft. over steep broken NE. slope to Mon. No. 160.
181.65	Raise a mound of stone, 3 ft. base, 2 ft. high, on line at this point.
202.05	Intersect Mon. No. 160 on top of ridge bearing N. and S. This is a masonry, 4 ft. square at base, 10 ft. high, 2 ft. square at top, and bearing two inscription plates, one each on N. and S. faces, and 160 on E. face. True course and dist. of International Boundary Line from Mon. No. 159 to Mon. No. 160 are therefore N. 70° 5' W., 202.05 chs. Land, mountainous and nearly level. Soil, rocky, 3rd and 4th rate. Timber, none. Undergrowth, greasewood, sagebrush, scrub mesquite, palo verde, ironwood and cactus.

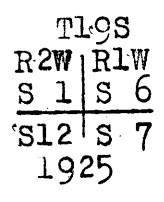
Survey of East boundary of frac. Township 19 South, Range 2 West. 5

Chains.

From the cor. of Ts. 18 S., Rs. 1 and 2 W., and frac. Ts. 19 S.,
 Rs. 1 and 2 W., described in Book "E" of this group,
 South, on true line, bet. secs. 1 and 6.
 Over level land, thru. dense undergrowth.
 17.00 Leave dense, and enter scattering undergrowth.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor. of secs. 1 and 6, with brass
 cap, marked

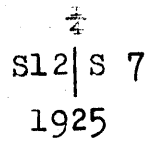


No bearing trees available.
 Dig pits, 18x18x12 ins., one each N. and S. of post, 3 ft.
 dist.
 80.00 Continue over level land, thru. scattering undergrowth.
 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in
 the ground for cor. of secs. 1, 6, 7 and 12, with brass
 cap, marked

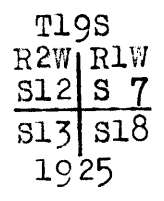


No bearing trees available.
 Dig pits, 18x18x12 ins., one each NE., SE., SW. and NW. of
 cor. 3 ft. dist.
 Land, level.
 Soil, adobe, 2nd rate.
 Timber, none.
 Undergrowth, greasewood, sage brush, scrub mesquite and
 cactus.

40.00 South, on true line, bet. secs. 7 and 12.
 Over level land, thru. scattering undergrowth.
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor. of secs. 7 and 12, with brass cap,
 marked



50.10 No bearing trees available. Dig pits, 18x18x12 ins., one
 each N. and S. of post, 3 ft. dist.
 Continue over level land, thru. scattering undergrowth.
 Road brs. E. to Manager's Dam and W. to Perseniamoe.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the
 ground for cor. of secs. 7, 12, 13 and 18, with brass cap,
 marked



No bearing trees available. Dig pits, 18x18x12 ins.,
 one each NE., SE., SW. and NW. of cor. 3 ft. dist.
 Land, level.
 Soil, adobe, 2nd rate.
 Timber, none.
 Undergrowth, sagebrush, scrub mesquite and cactus.

BOOK 3728

6 Survey of East boundary of frac. Township 19 South, Range 2 West.

Chains.

South, on true line, bet. secs. 13 and 18.
 Over level land, thru. scattering undergrowth.
 26.30 Road hrs. SE. to Camote and NW.
 33.50 Cattle wallow, 50 lks. wide, 5 chs. long, hrs. E. and W.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor. of secs. 13 and 18, with brass
 cap, marked

$\frac{1}{4}$ S13 S18

1925

from which,

A mesquite, 6 ins. in diam., hrs. N. $20\frac{1}{2}^{\circ}$ E., 375
 lks. dist., marked $\frac{1}{4}$ S 18 BT.

A mesquite, 6 ins. in diam., hrs. N. $23\frac{1}{2}^{\circ}$ W., 320
 lks. dist., marked $\frac{1}{4}$ S 13 BT.

Continue over level land, thru. scattering undergrowth.
 63.70 Road, hrs. NE. and SW.

70.00 Camote Indian village hrs. East, approx., 20 chs. dist.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in
 the ground, for cor. of secs. 13 and 18, and frac. secs.
 19 and 24, with brass cap, marked

T19S R2W R1W S13 S18

S24 S19 1925

from which,

A mesquite, 4 ins. in diam., hrs. S. $87\frac{1}{2}^{\circ}$ E., 12 lks.
 dist., marked BT.

No other bearing trees available.

Dig pits, 18x18x12 ins., one each NE., SE., SW. and NW. of
 cor. 3 ft. dist.

Land, level.

Soil, adobe, 2nd rate.

Timber, none.

Undergrowth, greasewood, sagebrush, scrub mesquite and
 cactus.

37.54 South, on true line, bet. frac. secs. 19 and 24.
 37.76 Over level land, thru. scattering undergrowth.
 Four strand wire fence, parallel to International Boundary.
 Intersect the Neutral Strip (60 ft. wide) hrs. N. $70^{\circ} 2' W.$
 and S. $70^{\circ} 2' E.$ along U.S.-Mexico Boundary.

At point of intersection,

Set an iron post, 3 ft. long, 3 ins. in diam., 26 ins. in
 the ground for closing cor. of frac. Ts. 19 S., Rs. 1 and 2
 W., with brass cap, marked

C C T19S R2W R1W S24 S19

RESERVATION 1925

38.73 No bearing trees available. Dig pits, 18x18x12 ins., one
 each N. $70^{\circ} W.$, S. $70^{\circ} E.$ and N. of cor. 3 ft. dist.
 Continue measurement across Neutral Strip.
 Intersect International Boundary at a point 243 lks. N. 70°
 $2' W.$ from Monument No. 157 thereon, hereinbefore described.

Land, level.

Soil, adobe, 2nd rate.

Timber, none.

Undergrowth, greasewood, sagebrush, scrub mesquite and cactus.

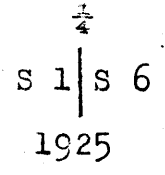
Survey of West boundary of frac. Township 19 South Range 2 West. 7

Chains

From the cor. of Ts. 18 S., Rs. 2 and 3 W., and frac. T. 19 S., Rs. 2 and 3 W., described in Book "E" of this group, South, on true line, bet. sec. 6 and frac. sec. 1. Over gently rolling land, thru. dense undergrowth. Wash, 20 lks. wide, course N. 20° W.

37.50
40.00

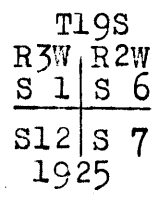
Set an iron post 3 ft. long, 1 in. in diam., 4 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for 1/4 sec. cor. of sec. 6 and frac. sec. 1, with brass cap, marked



from which,
An ironwood, 12 ins. in diam., brs. N. 2 1/2° E., 98 lks. dist., marked S 6 BT.
A palo verde, 6 ins. in diam., brs. S. 69° W., 38 lks. dist., marked S 1 BT.

80.00

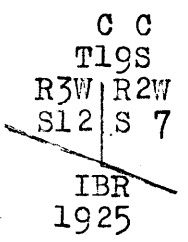
Continue over gently rolling land, thru. dense undergrowth. Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for cor. of sec. 6 and frac. secs. 1, 7 and 12, with brass cap, marked



No bearing trees available. Raise a mound of stone 3 ft. base, 2 ft. high, W. of cor.
Land, gently rolling.
Soil, adobe, 2nd rate.
Timber, none.
Undergrowth, greasewood, sagebrush, scrub palo verde, mesquite and ironwood.

23.70
23.73

South, on true line, bet. frac. secs. 7 and 12. Over gently rolling land, thru. dense undergrowth. Four strand wire fence parallel to International Boundary. Intersect the Neutral Strip (60 ft. wide) bearing N. 70° 5' W. and S. 70° 5' E., along the U.S.-Mexico Boundary. At point of intersection, Set an iron post 3 ft. long, 3 ins. in diam., 6 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post for closing cor. of frac. Ts. 19 S., Rs. 2 and 3 W., with brass cap, marked



24.70

No bearing trees available. Continue measurement across Neutral Strip. Intersect International Boundary at a point 75.29 chs. S. 70° 05' E. from Monument No. 160 thereon, hereinbefore described.
Land, gently rolling.
Soil, rocky, 3rd rate.
Timber, none.
Undergrowth, greasewood, sagebrush, scrub mesquite, palo verde and ironwood and cactus.

BOOK 3728

8. State of the south boundary of the strip of land, north of the

Boundaries of frac. Township 19 South, Range 2 West.

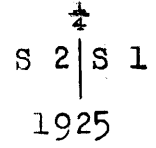
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary, (U.S.-Mex.Bdy.)	N.70°02'W.	194.10	66.28			182.43
	N.70°03'W.	190.73	65.08			179.28
	N.70°05'W.	126.76	43.18			119.18
West boundary,	North,	104.70	104.70			
North boundary,	N.89°57'E.	480.75	.44		480.75	
East boundary,	South,	278.73		278.73		
Convergency,					.16	
Totals.			279.68	278.73	480.91	480.89
			278.73		480.89	
Error in latitude,			0.95			
Error in departure,					0.02	

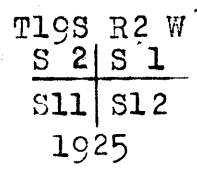
Survey of Subdivision lines of frac. Township 19 South, Range 2 West. 9

Chains.

From the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp., described in Book "E," of this group, S. 0° 1' E., bet. secs. 1 and 2.
 Over level land, thru. dense undergrowth.
 5.00 Leave dense and enter scattering undergrowth.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 1 and 12, with brass cap, marked



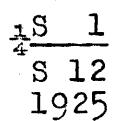
No bearing trees available.
 Dig pits, 18x18x12 ins., one each N. and S. of post, 3 ft. dist.
 80.00 Continue over level land, thru. scattering undergrowth.
 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for cor. of secs. 1, 2, 11 and 12, with brass cap, marked



from which,
 A mesquite, 6 ins. in diam., brs. N. 87 $\frac{1}{2}$ ° W., 229 lks. dist., marked T19S R2W S2 BT.

No other bearing trees available.
 Dig pits, 18x18x12 ins., one each NE., SE., SW. and NW. of cor. 3 ft. dist.
 Land, level.
 Soil, adobe, 2nd rate.
 Timber, none.
 Undergrowth, greasewood, sage brush and scrub mesquite.

40.00 N. 89° 57' E., on a random line, bet. secs. 1 and 12.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp., hereinbefore described.
 Thence,
 S. 89° 57' W., on a true line, bet. secs. 1 and 12.
 Over level land, thru. scattering undergrowth.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. of secs. 1 and 12, with brass cap, marked



No bearing trees available. Dig pits 18x18x12 ins., one each E. and W. of post, 3 ft. dist.
 80.00 Continue over level land, thru. scattering undergrowth.
 The cor. of secs. 1, 2, 11 and 12,
 Land, level.
 Soil, adobe, 2nd rate.
 Timber, none.
 Undergrowth, greasewood, sage brush and scrub mesquite.

26.40 S. 0° 1' E., bet. secs. 11 and 12.
 Over level land, thru. scattering undergrowth.
 Road brs. SE. to Comote and NW. to Ajo.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked

BOOK 3728

10 Survey of Subdivision lines of frac. Township 19 South, Range 2 W.

Chains.

 $\frac{1}{4}$
 S11 | S12

1925

No bearing trees available.

Dig pits 18x18x12 ins., one each N. and S. of post 3 ft. dist.

Continue over level land, thru. dense undergrowth.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 11, 12, 13 and frac. sec. 14 with brass cap, marked

T19S R2W

S11 | S12

S14 | S13

1925

from which,

A mesquite, 6 ins. in diam., brs. N. 47 $\frac{1}{2}$ ° E., 62 lks. dist., marked T19S R2W S12 BT.

A mesquite, 4 ins. in diam., brs. N. 54° W., 112 lks. dist., marked BT.

No other bearing trees available.

Dig pits, 18x18x12 ins., one each NE., SE., SW. and NW. of post 3 ft. dist.

Land, level.

Soil, adobe, 2nd rate.

Timber, none.

Undergrowth, greasewood, sagebrush and scrub mesquite.

40.00

N. 89° 57' E., on a random line, bet. secs. 12 and 13.

79.96

Set temp. $\frac{1}{4}$ sec. cor.

Intersect the cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp., hereinbefore described.

Thence,

S. 89° 57' W., on a true line, bet. secs. 12 and 13.

Over level land, thru. dense undergrowth.

25.00

Road, brs. SE. to Camote and NW to Ajo.

39.98

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ S 12

S 13

1925

No bearing trees available. Dig pits, 18x18x12 ins., one each, E. and W. of post, 3 ft. dist.

Continue over level land, thru. dense undergrowth.

79.96

The cor. of secs. 11, 12, 13 and frac. sec. 14.

Land, level, drains SE.

Soil, adobe, 2nd rate.

Timber, none.

Undergrowth, greasewood, sagebrush and scrub mesquite.

40.00

S. 0° 1' E., bet. sec. 13 and frac. sec. 14.

Over level land, thru. scattering undergrowth.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$
 S14 | S13

1925

No bearing trees available.

Dig pits 18x18x12 ins. one each N. and S. of post, 3 ft. dist.

Survey of Subdivision lines of frac. Township 19 South, Range 2 West. 11

Chains.

43.70 Continue over level land, thru scattering undergrowth.
 80.00 Wash, 10 lks. wide, course E.
 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in
 the ground for cor. of sec. 13, and frac. secs. 14, 23 and
 24, with brass cap, marked.

T19S R2 W
 S14 S13
 S23 S24
 1925

from which,
 A mesquite, 8 ins. in diam., brs. N. 65° E., 57 lks.
 dist. marked T19S R2W S13 BT.
 A mesquite, 6 ins. in diam., brs. S. 14° E., 97 lks.
 dist., marked BT only.
 A mesquite, 6 ins. in diam., brs. S. 28 1/2° W., 106 lks.
 dist., marked BT only.
 A mesquite, 6 ins. in diam., brs. N. 61° W., 65 lks.
 dist., marked T19S R2W S14 BT.

Land, level.
 Soil, adobe, 2nd rate.
 Timber, none.
 Undergrowth, greasewood, sagebrush and scrub mesquite.

40.00 N. 89° 57' E., on a random line, bet. sec. 13, and frac. sec. 24.
 79.96 Set temp. 1/4 sec. cor.
 Fall 2 lks. N. of the cor. of secs. 13 and 18, and frac. secs.
 19 and 24, on the E. bdy. of the Tp., hereinbefore de-
 scribed.

Thence,
 S. 89° 58' W., on a true line bet. sec. 13 and frac. sec. 24.
 Over level land, thru scattering undergrowth.

15.00 Road, brs. NE. to Molinitos and SW.
 35.00 Indian village, brs. about 5 chs. S.
 39.98 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for 1/4 sec. cor., with brass cap, marked

1/4 S 13
 S 24
 1925

No bearing trees available.
 Dig pits, 18x18x12 ins., one each E. and W. of post, 3 ft.
 dist.

79.96 Continue over level land, thru scattering undergrowth.
 The cor. of sec. 13, and frac. secs. 14, 23 and 24,
 Land, level.

Soil, adobe, 2nd rate.
 Timber, none.
 Undergrowth, greasewood, sagebrush and scrub mesquite.

8.50 S. 0° 1' E., bet. frac. secs. 23 and 24.
 8.58 Over level land, thru scattering undergrowth,
 Road, brs. S. 70° E. and N. 70° W.
 Intersect the Neutral Strip (60 ft. wide) brs. N. 70° 2' W. and
 S. 70° 2' E., along the International Boundary bet., the
 United States and Mexico.

At point of intersection,
 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the
 ground, for closing cor. of frac. secs. 23 and 24, with
 brass cap, marked

C C
 T19S R2 W
 S23 S24
 IBR
 1925

BOOK 3728

12 Survey of Subdivision lines of frac. Township 19 South, Range 2 West.

Chains.

from which,

A mesquite, 6 ins. in diam., brs. N. 23° E., 32
lks. dist., marked T19S R2W S24 CC BT.A mesquite, 6 ins. in diam., brs. N. 30° W., 268
lks. dist., marked T19S R2W S23 CC BT.

Continue measurement across Neutral Strip.

8.60 Four strand wire fence parallel to International Boundary.
9.55 Intersect the International Boundary Line at a point 87.58
chs. N. 70° 02' W. from Mon. No. 157 thereon, hereinbefore
described.

Land, level.

Soil, adobe, 2nd rate.

Timber, none.

Undergrowth, greasewood, sage brush and scrub mesquite.

From the cor. of secs. 2, 3, 34 and 35, on the N. bdy. of the
Tp., hereinbefore described,

S. 0° 1' E., bet. secs. 2 and 3.

Over level land, thru. dense undergrowth.

37.80 Road brs. SE. to Molinitos and NW. to Ajo.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., with brass cap, marked
$$\begin{array}{c} \frac{1}{4} \\ \hline S\ 3\ | \ S\ 2 \\ \hline 1925 \end{array}$$

from which,

A mesquite, 6 ins. in diam., brs. N. 57° E., 57 lks.
dist., marked $\frac{1}{4}$ S 2 BT.A mesquite, 6 ins. in diam., brs. N. 29° W., 125 lks.
dist., marked $\frac{1}{4}$ S 3 BT.

Continue over level land, thru. dense undergrowth.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in
the ground, for cor. of secs. 2, 3, 10 and 11, with brass
cap, marked
$$\begin{array}{c} T19S\ R2W \\ \hline S\ 3\ | \ S\ 2 \\ \hline S10\ | \ S11 \\ \hline 1925 \end{array}$$

from which,

A mesquite 6 ins. in diam., brs. N. 71° E., 314 lks.
dist., marked BT only.A mesquite, 6 ins. in diam., brs. S. 79 $\frac{1}{2}$ ° E., 336 lks.
dist., marked T19S R2W S11 BT.No other bearing trees available. Dig pits, 18x18x12 ins.
one each NE., SE., SW. and NW., of cor. 3 ft. dist.

Land, level, drains SE.

Soil, adobe, 2nd rate.

Timber, none.

Undergrowth, greasewood, sagebrush and scrub mesquite.

N. 89° 57' E., on a random line, bet. secs. 2 and 11.40.00 Set temp. $\frac{1}{4}$ sec. cor.80.16 Fall 6 lks. N. of the cor. of secs. 1, 2, 11 and 12, hereinbe-
fore described.

Thence,

West, on true line, bet. secs. 2 and 11.

Over level land, thru. dense undergrowth.

34.10 Road, brs. SE. to Molinitos and NW. to Ajo.

40.08 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., with brass cap, marked
$$\begin{array}{c} \frac{1}{4} \ S \ 2 \\ \hline S \ 11 \\ \hline 1925 \end{array}$$

Survey of Subdivision lines of frac. Township 19 South, Range 2 West 13

Chains.	No bearing, trees available. Dig pits, 18x18x12 ins., one each E. and W. of post, 3 ft. dist. Continue over level land, thru. dense undergrowth.
80.16	The cor. of secs. 2, 3, 10 and 11. Land, level. Soil, adobe, 2nd rate. Timber, none. Undergrowth, greasewood, sagebrush and scrub mesquite.
40.00	S. 0° 1' E. bet. secs. 10 and 11. Over level land, thru. dense undergrowth. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\begin{array}{c} \frac{1}{4} \\ \text{S10} \text{S11} \\ 1925 \end{array}$ from which, A mesquite, 6 ins. in diam., brs. N. 86 $\frac{1}{2}$ ° E., 153 lks. dist., marked $\frac{1}{4}$ S 11 BT. A mesquite, 6 ins. in diam., brs. S. 22° W., 173 lks. dist., marked $\frac{1}{4}$ S 10 BT.
80.00	Continue over level land, thru. dense undergrowth. Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 10 and 11, and frac. secs. 14 and 15, with brass cap, marked $\begin{array}{c} \text{T19S R2 W} \\ \text{S10} \text{S11} \\ \text{S15} \text{S14} \\ 1925 \end{array}$ from which, A mesquite, 6 ins. in diam., brs. N. 76° E., 155 lks. dist., marked T19S R2W S11 BT. A mesquite, 6 ins. in diam., brs. E. 83 $\frac{1}{2}$ ° E., 94 lks. dist., marked T19S R2W S14 BT. A mesquite, 6 ins. in diam., brs. S. 72 $\frac{1}{4}$ ° W., 174 lks. dist., marked T19S R2W S15 BT. A mesquite, 6 ins. in diam., brs. N. 72° W., 130 lks. dist., marked T19S R2W S10 BT. Land, level. Soil, adobe, 2nd rate. Timber, none. Undergrowth, greasewood, sage brush and scrub mesquite.
40.00	East, on a random line, bet. sec. 11 and frac. sec. 14. Set temp. $\frac{1}{4}$ sec. cor.
80.24	Intersect the cor. of secs. 11, 12 and 13 and frac. sec. 14, hereinbefore described. Thence, West, on a true line, bet. sec. 11 and frac. sec. 14.
40.12	Over level land, thru. dense undergrowth. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked $\begin{array}{c} \frac{1}{4} \text{ S 11} \\ \text{S 14} \\ 1925 \end{array}$
80.24	No bearing trees available. Dig pits, 18x18x12 ins., one each E. and W. of post, 3 ft. dist. Continue over level land, thru. dense undergrowth. The cor. of secs. 10 and 11, and frac. secs. 14 and 15, Land, level.

BOOK 3728

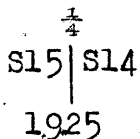
Survey of
14 Subdivision lines of fracl. Township 19 South, Range 2 West.

Chains.

Soil, adobe, 2nd rate.
Timber, none.
Undergrowth, greasewood, sage brush and scrub mesquite.

40.00

S.0°1'E., bet. fracl. secs. 14 and 15.
Over level land, thru. dense undergrowth.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap, marked



from which,
A mesquite, 6 ins. in diam., brs. N. 89° E., 106 lks. dist., marked $\frac{1}{4}$ S 14 BT.
A mesquite, 8 ins. in diam., brs. S. 2 $\frac{1}{2}$ ° W., 74 lks. dist., marked $\frac{1}{4}$ S 15 BT.

59.60

Continue over level land, thru. dense undergrowth.
Road parallel to International Boundary.

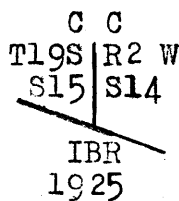
59.70

Four strand wire fence parallel to International Boundary.

59.74

Intersect the Neutral Strip (60 ft. wide) bearing N. 70° 2' W. and S. 70° 2' E. along the International Boundary, between the United States and Mexico.

At point of intersection,
Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for closing cor. of fracl. secs. 14 and 15, with brass cap, marked



from which,
A mesquite, 6 ins. in diam., brs. N. 78 $\frac{1}{2}$ ° E., 200 lks. dist., marked T19S R2W S14 CC BT.
A mesquite, 6 ins. in diam., brs. N. 53 $\frac{1}{4}$ ° W., 201 lks. dist., marked T19S R2W S15 CC BT.

60.71

Continue measurement across Neutral Strip.
Intersect the International Boundary line at a point 23.54 chs. S. 70° 2' E. from Mon. No. 158 thereon, hereinbefore described.

Land, level.
Soil, adobe, 2nd rate.
Undergrowth, greasewood, sagebrush and scrub mesquite.
Timber, none.

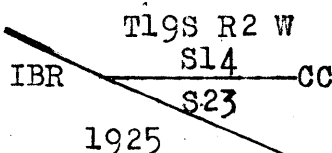
23.50

From the cor. of sec. 13, and fracl. secs. 14, 23 and 24, hereinbefore described,

23.58

West, on true line, bet. frac. secs. 14 and 23.
Over level land, thru. scattering undergrowth.
Road, brs. N. 70° W. and S. 70° E.
Intersect the Neutral Strip (60 ft. wide) bearing N. 70° 2' W. and S. 70° 2' E. along the International Boundary bet. the United States and Mexico.

At point of intersection,
Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for closing cor. of fracl. secs. 14 and 23, with brass cap, marked



Survey of the
Subdivision lines of Frac. Township 19 South, Range 2 West. 15

Chains.

No bearing trees available.
 Dig pits, 18x18x12 ins., one each S.70°E., N.70°W. and E.
 of cor. 3 ft. dist.
 Continue across Neutral Strip.
 23.60 Four-strand wire fence parallel to International Boun-
 dary.
 26.26 Intersect the International Boundary Line at a point 81.03
 chs. S.70°2'E. from Mon. No.158 thereon, hereinbefore
 described.
 Land, level.
 Soil, adobe, 2nd rate.
 Timber, none.
 Undergrowth, greasewood, sage brush and scrub mesquite.

From the cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the
 Tp., hereinbefore described,
 S.0°2'E., bet. secs. 3 and 4.
 Over level land, thru. dense undergrowth.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$
 S 4 | S 3
 1925

from which,
 A mesquite, 6 ins. in diam., brs. N.46°E., 19 lks. .
 dist., marked $\frac{1}{4}$ S 3 BT.
 A mesquite, 8 ins. in diam., brs. N.68°W., 60 lks.
 dist., marked $\frac{1}{4}$ S 4 BT.

Continue over level land, thru. dense undergrowth.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in
 the ground for cor. of secs. 3, 4, 9 and 10, with brass
 cap, marked

T19S R2 W
 S 4 | S 3
 S 9 | S 10
 1925

from which,
 A mesquite, 6 ins. in diam., brs. N.81°E., 204
 lks. dist., marked T19S R2W S3 BT.
 A mesquite, 8 ins. in diam., brs. S.21°E., 91
 lks. dist., marked T19S R2W S10 BT.
 A mesquite, 6 ins. in diam., brs. S.20 $\frac{1}{2}$ °W., 98
 lks. dist., marked T19S R2W S9 BT.

No other bearing trees available. Dig pits, 18x18x12 ins.
 one each NE., SE., SW. and NW. of cor. 3 ft. dist.
 Land, level.
 Soil, adobe, 2nd rate.
 Timber, none.
 Undergrowth, greasewood, sagebrush and scrub mesquite.

N.89°57'E., on a random line, bet. secs. 3 and 10.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.84 Fall 2 lks. N. of the cor. of secs. 2, 3, 10 and 11, hereinbe-
 fore described.

Thence,
 S.89°58'W., on a true line, bet. secs. 3 and 10.
 Over level land, thru. dense undergrowth.
 39.92 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$ S 3
 S 10
 1925

BOOK 3728

16 Survey of Subdivision lines of frac, Township 19 South, Range 2 West

Chains.

79.84 from which,
 A mesquite, 10 ins. in diam., brs. N. 66° E., 93 lks. dist., marked $\frac{1}{4}$ S 3 BT.
 A mesquite, 8 ins. in diam., brs. S. 81° E., 217 lks. dist., marked $\frac{1}{4}$ S 10 BT.
 Continue over level land, thru. dense undergrowth.
 The cor. of secs. 3, 4, 9 and 10.
 Land, level.
 Soil, adobe, 2nd rate.
 Timber, none.
 Undergrowth, greasewood, sagebrush, and scrub mesquite.

40.00 S. 0° 2' E., bet. secs. 9 and 10.
 Over level land, thru. dense undergrowth.
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$
 S 9 | S 10
 1925

80.00 from which,
 A mesquite, 10 ins. in diam., brs. S. 15 $\frac{1}{2}$ ° E., 150 lks. dist., marked $\frac{1}{4}$ S 10 BT.
 A mesquite, 8 ins. in diam., brs. S. 17° W., 190 lks. dist., marked $\frac{1}{4}$ S 9 BT.
 Continue over level land, thru. dense undergrowth.
 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for cor. of secs. 9 and 10, and frac. secs. 15 and 16, with brass cap, marked
 T19S | R2 W
 S 9 | S 10
 S 16 | S 15
 1925

from which,
 A mesquite, 6 ins. in diam., brs. N. 46 $\frac{1}{2}$ ° E., 147 lks. dist., marked T19S R2W S10 BT.
 A mesquite, 8 ins. in diam., brs. S. 53° E., 171 lks. dist., marked T19S R2W S15 BT.
 A mesquite, 6 ins. in diam., brs. S. 65° W., 79 lks. dist., marked T19S R2W S16 BT.
 A mesquite, 10 ins. in diam., brs. N. 24 $\frac{1}{2}$ ° W., 176 lks. dist., marked T19S R2W S9 BT.
 Land, level.
 Soil, adobe and sandy, 2nd rate.
 Timber, none.
 Undergrowth, greasewood, sage brush and scrub mesquite.

40.00 N. 89° 58' E., on a random line, bet. sec. 10 and frac. sec. 15.
 Set temp. $\frac{1}{4}$ sec. cor.
 79.76 Fall 7 lks. N. of the cor. of secs. 10 and 11, and frac. secs. 14 and 15, hereinbefore described.
 Thence,
 N. 89° 59' W., on a true line, bet. sec. 10 and frac. sec. 15.
 39.88 Over level land, thru. dense undergrowth.
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked
 $\frac{1}{4}$ S 10
 S 15
 1925

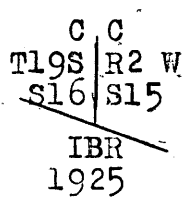
from which,
 A mesquite, 6 ins. in diam., brs. S. 66 $\frac{1}{2}$ ° W., 96 lks. dist., marked $\frac{1}{4}$ S 15 BT.
 A mesquite, 6 ins. in diam., brs. N. 65° W., 206 lks. dist., marked $\frac{1}{4}$ S 10 BT.

Survey of Subdivision lines of frac. Township 19 South, Range 2 West 17

Chains.

79.76 Continue over level land, thru. dense undergrowth.
 The cor. of secs. 9 and 10, and frac. secs. 15 and 16.
 Land, level.
 Soil, adobe, 1st rate.
 Timber, none.
 Undergrowth, greasewood, scrub mesquite, palo verde and cactus.

16.50 S. 0° 2' E., bet. frac. secs. 15 and 16.
 Over level land, thru. dense undergrowth.
 Road, brs. SE. and NW.
 30.70 Four strand wire fence, parallel to International Boundary.
 30.96 Intersect the Neutral Strip (60 ft. wide) bearing N. 70° 3' W. and S. 70° 3' E. along the International Boundary between the United States and Mexico.
 At point of intersection,
 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for closing cor. of frac. secs. 15 and 16, with brass cap, marked



from which,
 A mesquite, 10 ins. in diam., brs. N. 83½° E., 83 lks. dist., marked T19S R2W S15 CC BT.
 A mesquite, 10 ins. in diam., brs. N. 23½° W., 328 lks. dist., marked T19S R2W S16 CC BT.
 31.93 Continue measurement, across Neutral Strip.
 Intersect the International Boundary Line at a point 61.23 chs. N. 70° 3' W. from Mon. No. 158 thereon, hereinbefore described.
 Land, level, drains E.
 Soil, sandy and adobe, 1st and 2nd rate.
 Timber, none.
 Undergrowth, greasewood, scrub mesquite, palo verde and cactus.

40.00 From the cor. of secs. 4, 5, 32 and 33 on the N. bdy. of the Tp., hereinbefore described,
 S. 0° 2' E., bet. secs. 4 and 5.
 Over level land, thru. dense undergrowth.
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., with brass cap, marked

	4	
S 5		S 4
1925		

from which,
 A mesquite, 6 ins. in diam., brs. S. 13° E., 81 lks. dist., marked ¼ S 4 BT.
 A mesquite, 8 ins. in diam., brs. N. 62° W., 62 lks. dist., marked ¼ S 5 BT.
 80.00 Continue over level land, thru. dense undergrowth.
 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for cor. of secs. 4, 5, and 9, and frac. sec. 8, with brass cap, marked

T19S		R2 W
S 5		S 4
S 8		S 9
1925		

from which,

18 Survey of Subdivision lines of frac. Township 19 South, Range 2 W.

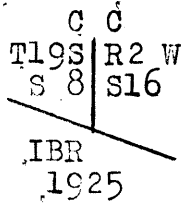
Chains.

	<p>A mesquite, 6 ins. in diam., brs. N. $39\frac{1}{2}^{\circ}$ E., 61 lks. dist., marked T19S R2W S4 BT.</p> <p>A mesquite, 10 ins. in diam., brs. S. 41° E., 46 lks. dist., marked T19S R2W S9 BT.</p> <p>A mesquite, 8 ins. in diam., brs. S. $59\frac{1}{2}^{\circ}$ W., 65 lks. dist., marked T19S R2W S8 BT.</p> <p>A mesquite, 8 ins. in diam., brs. N. $30\frac{1}{2}^{\circ}$ W., 138 lks. dist., marked T19S R2W S5 BT.</p> <p>Land, level. Soil, sandy and adobe, 2nd rate. Timber, none. Undergrowth, greasewood, sagebrush and scrub mesquite.</p>
40.00	N. $89^{\circ}57'$ E., on a random line, bet. secs. 4 and 9.
80.20	Set temp. $\frac{1}{4}$ sec. cor. Intersect the cor. of secs. 3, 4, 9 and 10, hereinbefore described.
	Thence, S. $89^{\circ}57'$ W., on a true line, bet. secs. 4 and 9. Over level land, thru. dense undergrowth.
40.10	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\begin{array}{r} \frac{1}{4} \text{ S } 4 \\ \text{S } 9 \\ 1925 \end{array}$
	from which, A mesquite, 8 ins. in diam., brs. N. $74\frac{1}{2}^{\circ}$ E., 66 lks. dist., marked $\frac{1}{4}$ S 4 BT. A mesquite, 6 ins. in diam., brs. S. $74\frac{1}{2}^{\circ}$ W., 117 lks. dist., marked $\frac{1}{4}$ S 9 BT.
80.20	Continue over level land, thru. dense undergrowth. The cor. of secs. 4, 5, and 9, and frac. sec. 8. Land, level, drains E. Soil, adobe and sandy loam, 2nd rate. Timber, none. Undergrowth, greasewood, sage brush and scrub mesquite.
17.80	S. $0^{\circ}2'$ E., on E. bdy. of frac. sec. 8. Over level land, thru. dense undergrowth.
18.50	Road, brs. SE. to Manager's dam, and NW.
40.00	Wash, 10 lks. wide, course E. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 9, and frac. sec. 8, with brass cap, marked
	$\begin{array}{r} \frac{1}{4} \\ \text{S } 8 \text{ } \text{S } 9 \\ 1925 \end{array}$
	from which, A mesquite, 6 ins. in diam., brs. N. 33° E., 135 lks. dist., marked $\frac{1}{4}$ S 9 BT. A mesquite, 6 ins. in diam., brs. N. 82° W., 65 lks. dist., marked $\frac{1}{4}$ S 8 BT.
64.00	Leave level, and enter rolling land. Ascend 42 ft., over N. slope.
68.50	Spur, slopes NE. Ascend gradually over E. slope, to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 15 ins. in the ground to bed rock, supported in a mound of stone, for cor. of sec. 9 and frac. sec. 16 only, with brass cap, marked
	$\begin{array}{r} \text{T19S R2 W} \\ \text{S } 8 \text{ } \text{S } 9 \\ \text{S } 16 \\ 1925 \end{array}$

Survey of Subdivision lines of frac. Township 19 South, Range 2 West. 19

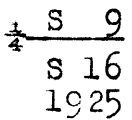
Chains.

81.96 No bearing trees available. Raise a mound of stone, 4 ft. base, 3 ft. high, E. of cor. Continue line and measurement. Ascend slightly over E. slope, to Intersect the Neutral Strip (60 ft. wide) bearing N. 70° 3' W. and S. 70° 3' E. along the International Bdy. bet. the United States and Mexico. At point of intersection, Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for closing cor. of frac. secs. 8 and 16, with brass cap, marked



82.93 No bearing trees available. Continue measurement across Neutral Strip. Intersect the International Boundary line at a point 44.42 chs., S. 70° 3' E. from Mon. No. 159 thereon, hereinbefore described. Land, level and rolling. Soil, adobe and sandy, 2nd rate. Timber, none. Undergrowth, greasewood, sage brush, scrub mesquite and ironwood.

40.00 From cor. of sec. 9 and frac. sec. 16, N. 89° 57' E., on a random line, bet. sec. 9 and frac. sec. 16. Set temp. 1/4 sec. cor.
 79.90 Intersect the cor. of secs. 9 and 10, and frac. secs. 15 and 16, hereinbefore described. Thence, S. 89° 57' W., on a true line, bet. sec. 9 and frac. sec. 16. Over level land, thru. dense undergrowth.
 15.40 Road, brs. SE. and NW.
 22.40 Leave level and enter rolling land. Ascend 100 ft., over E. slope.
 31.90 Spur, slopes N. Descend 57 ft., over W. slope.
 35.90 Small ravine, course N. Ascend 22 ft., over E. slope, to
 39.95 Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for 1/4 sec. cor., with brass cap, marked



46.80 No bearing trees available. Ascend 50 ft., over broken E. slope. Spur, slopes N. Descend 76 ft., over W. slope, to
 54.90 Thence over malpais flat.
 76.00 Enter rolling land. Asc. gradually over E. slope, to
 79.90 The cor. of sec. 9, and frac. sec. 16 only on E. bdy. of frac. sec. 8. Land, level and rolling. Soil, rocky, 3rd rate. Timber, none. Undergrowth, greasewood, scrub palo verde, ironwood and mesquite.

Survey of the
20 Subdivision lines of frac. Township 19 South, Range 2 West.

Chains.	<p>From the cor. of secs. 5, 6, 31 and 32, on the N. bdy. of the Tp., hereinbefore described, S. 0° 03' E., bet. secs. 5 and 6. Over level land, thru. dense undergrowth.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked</p> <p style="text-align: center;">$\frac{1}{4}$ S 6 S 5 1925</p>
80.00	<p>No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Continue over level land, thru. dense undergrowth.</p> <p>Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for the cor. of secs. 5 and 6, and frac. secs. 7 and 8, with brass cap, marked</p> <p style="text-align: center;">T19S R2W S 6 S 5 S 7 S 8 1925</p>
	<p>No bearing trees available. Land level. Soil, rocky, 3rd rate. Timber, none. Undergrowth, greasewood, scrub palo verde, mesquite and cactus.</p>
40.00	<p>N. 89° 57' E., on a random line bet. sec. 5 and frac. sec. 8. Set temp. $\frac{1}{4}$ sec. cor.</p>
79.98	<p>Fall 14 lks. N. of the cor. of secs. 4, 5, 9 and frac. sec. 8, hereinbefore described. Thence, N. 89° 57' W., on a true line bet. sec. 5, and frac. sec. 8. Over level land, thru. dense undergrowth.</p>
13.60	<p>Road, brs. SE. and NW.</p>
39.99	<p>Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap, marked</p> <p style="text-align: center;">$\frac{1}{4}$ S 5 S 8 1925</p>
79.98	<p>No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Continue over level land, thru. dense undergrowth. The cor. of secs. 5 and 6, and frac. secs. 7 and 8. Land, level. Soil, rocky, 3rd rate. Timber, none. Undergrowth, greasewood, sagebrush, scrub mesquite, palo verde, ironwood and cactus.</p>
40.00	<p>S. 89° 57' W., on a random line, bet. sec. 6 and frac. sec. 7. Set temp. $\frac{1}{4}$ sec. cor.</p>
81.10	<p>Fall 2 lks. S. of the cor. of sec. 6 and frac. secs. 1, 7, and 12, on the W. bdy. of the Tp., hereinbefore described. Thence, N. 89° 58' E., on a true line bet. sec. 6, and frac. sec. 7. Over level land, thru. dense undergrowth.</p>
13.10	<p>Wash, 30 lks. wide, course N. 20° E.</p>
41.10	<p>Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, marked</p>

Survey of Subdivision lines of frac. Township 19 South, Range 2 West. 21

Chains.

S 6
S 7
1925

from which,
An ironwood, 10 ins. in diam., brs. S. 44° W., 62 lks. dist., marked $\frac{1}{4}$ S 7 BT.

No other bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

- 59.10 Wash, 40 lks. wide, course N. 20° W.
- 71.50 Leave level, and enter rolling land. Ascend 12 ft., over W. slope,
- 74.60 Point of spur, sloping N. 20° W. Descend 12 ft., over NE. slope, to
- 78.00 Foot of descent, brs. NW. and SE. Enter level land.
- 81.10 The cor. of secs. 5 and 6, and frac. secs. 7 and 8. Land, level and rolling. Soil, rocky, 3rd rate. Timber, none. Undergrowth, greasewood, sagebrush, scrub mesquite and palo verde, ocotillo, ironwood and cactus.

-
- S. 0° 3' E., bet. frac. secs. 7 and 8. Over level land, thru. dense undergrowth.
 - 4.00 Leave level, and enter mountainous land. Ascend 175 ft., over NE. slope.
 - 15.00 Spur, slopes N. 20° W. Raise a mound of stone, 4 ft. base, 4 ft. high, on line at this point. Descend 166 ft., over SW. slope, to
 - 29.00 Foot of descent, brs. NW. and SE. Enter level land.
 - 31.00 Wash, 10 lks. wide, course N. 20° W.
 - 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap, marked

S 7 | S 8
1925

- No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
- 52.40 Four strand wire fence parallel to International Boundary.
- 53.22 Intersect the Neutral Strip (60 ft. wide) bearing N. 70° 5' W. and S. 70° 5' E. along the International Boundary, bet. the United States and Mexico. At point of intersection, Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for closing cor. of frac. secs. 7 and 8, with brass cap, marked

C C
T19S | R2 W
S 7 | S 8
IBR
1925

- No bearing trees available. Continue measurement across Neutral Strip.
- 54.19 Intersect the International Boundary Line at a point 40.56 chs. N. 70° 5' W. from Mon. No. 159 thereon, hereinbefore described. Land, level and mountainous. Soil, rocky, 3rd rate. Timber, none. Undergrowth, greasewood, sage brush and scrub mesquite, palo verde and ironwood, ocotillo and cactus.

The continued satisfactory adjustment of the instrument used in the execution of the surveys described in the foregoing notes is indicated from field tests described in book "H" of this group.

GENERAL DESCRIPTION.

Fractional Township 19 South, Range 2 West is level, with the exception of a ridge in the western part, crossing the U.S.-Mex. boundary. This ridge is of volcanic formation, as is the rock formation on some of the adjoining flats.

The soil is adobe and sand, usually of a good depth, producing almost everywhere, a heavy growth of the varieties of brush common to the arid lands of Arizona.

It has no streams or springs, and few watercourses that do not soon sink into the porous ground.

A four-strand barbwire fence follows the U.S.-Mexico Bdy. except in fractional secs. 8 and 16, where a rocky ridge is a natural obstruction to grazing stock.

Two roads of Indian origin cross the township.

A periodically occupied Indian village is located in frac. sec. 24.

There are no indications of valuable mineral deposits in this township.

CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

I, William H. Thorn, U.S. Cad. Engineer, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 101, Arizona bearing date of the 26th day of September, 1919, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, retraced all those parts or portions of the International Boundary between the United States and Mexico, and surveyed all those parts or portions of the East and West boundaries and subdivision lines of Township 19 South, Range 2 West

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in and by diagram on page 1 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of retracement and said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 101, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such retracement and survey.

Place Phoenix, Ariz. William H. Thorn U.S. Cadastral Engineer

Date May 21, 1926 APPROVAL.

OFFICE OF THE UNITED STATES Supervisor of Surveys Denver, Colorado, August 23, 1926

The foregoing field notes of the retracement of part of the United States-Mexico International Boundary Line, and the survey of the East and West boundaries and all of the subdivision lines of Fractional Township 19 South, Range 2 West of the Gila and Salt River Base and Meridian, in the State of Arizona

executed by William H. Thorn, U.S. Cadastral Engineer under his special instructions dated Sept. 26, 1919, for Group 101, Arizona, having been critically examined, and the necessary corrections and explanations made, the said retracements and surveys they describe, are hereby approved.

Signature of U.S. Supervisor of Surveys

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.