"E"

BOCK 3452

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FIELD NOTES

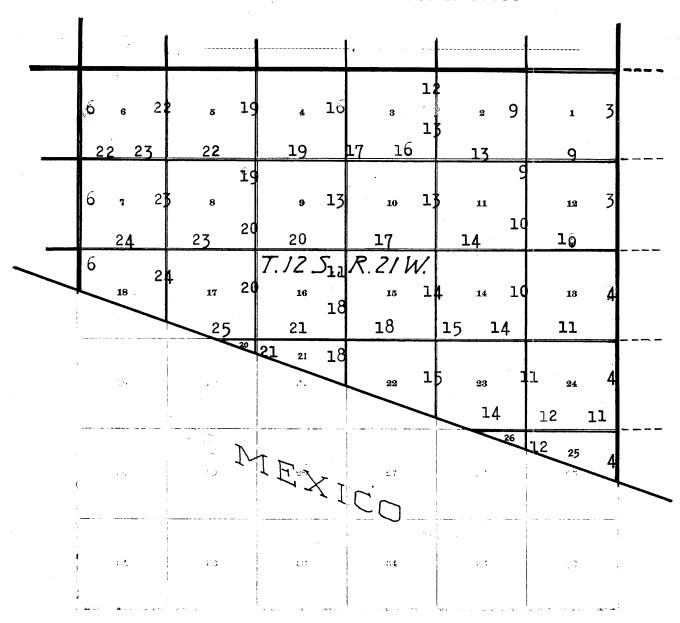
OF THE SURVEY OF THE

East Boundary,
West Boundary,
and
Subdivision Lines of
Fractional Township 12 South, Range 21 West
1 1 actional township 12 Journ, Mange 21 Ivest
Of the Gila and Salt River Base and Meridian,
In the State ofARIZONA
EXECUTED BY
William H. Thorn, U.S. Gadastral Engineer
and
William D. Wilson, Temporary U.S. Transitman
In the capacity of U.S. Surveyors, under Special Instructions dated March 10, 1919,
issued by the United States Surveyor General to govern surveys included in Group
No. 95, which were approved by the Commissioner of the General Land
Office, May 13, 1919, and Assignment Instructions dated Jan. 6, 1920.
· · · · · · · · · · · · · · · · · · ·
Survey commenced <u>february 26</u> , 19 <b>20</b> .
Survey completed March 7, 1920.

 $A_{f}$ 

Book "E"
Group 95 - - Arizona.

## INDEX DIAGRAM.



Lines resurveyed under this group.

Lines resurveyed under this group.

Unsurveyed.

#### Book "E"

Group 95---- Arizona.

Fracl. Township 12 South, Range 21 West.

# DATE · DIAGRAM ·

•	F	or dates of exe	ecution of sur	evey of this Li	ine see Book	<i>"D"</i>	
2-23-20 W	الم الم 3-1-20	02.7 5 7 3-1-20	02- <u>/</u> 2- 4 2-27-20	02·22-2 3 2-27-20	2 2 2-29-20 2-27-20	l 2-27-20	2-26-20
2.23.20	7 6-20	02-8-8 3-6-20	3-3-20 2-27-20	6 8 9 8 7 7 7 7 7 7 7 7	2-27-20 2-27-20	12 2-27-20	2-26-20
3-3-20	8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 /	25.20	w N N 0 3-5-20	6. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	02.72.20 4 4 4 4	1 <b>3</b> 2-27-20	2.26-20
	Andrew Communication and Communication Commu	20	6-20 7 <u>R</u> 5-20	22 OR STORY	20	24 3-4-20	2-26-20
	dang wal data (Collage Collage) (Collage) (Collage)	•	· ·	Bound	dary 26 02 15 6	25	2-26-20

Black lines indicate surveys by William H. Thorn, U.S. Cadastral Engineer, on dates shown thereon.

Red lines indicate surveys by William D.Wilson, Temporary U. S. Transitman, on dates shown thereon.

- Surveys hereinafter described executed by William H. Thorn, U. S. Cadastral Engineer, and William D. Wilson, Temporary U. S. Transitman, on dates shown on diagram on page 1 hereof, using respectively Young and Sons' light mountain transits Nos. 8592 and 8148. For description of instruments and certificate of approval, see Book "A".
- Unless otherwise specified, all measurements are made with a Lufkin steel tape, 5 chs. in length, compared with a Chesterman standard steel tape and found correct. The measurements are made on the slope, the vertical angles determined, and the slope measurements properly reduced to true horizontal distances.
- We examine the adjustments of the transits and correct all errors; then, to test the solar apparatus, by comparing their indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris at elongation, we proceed as follows:
- Feb. 21, 1920: At our camp near the cor. of secs. 15, 16, 21 and 22, T. 11 S., R. 21 W., G. and S. R. B. and M., lat. 32°27½'N., long. 114°24½'W., at 9 hrs. 25.3 m. p.m. l.m.t., we observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tack in a stake, firmly set in the ground, 5 chs. N. of our station.
- Feb. 22, 1920. At 8 hrs. 0 m., a.m., l.m.t., we lay off the azimuth of Polaris,  $1^{\circ}19\frac{1}{2}$  to the east, and mark the true meridian thus determined by a tack in a stake, firmly set in the ground. 5 chs. N. of our station.
- firmly set in the ground, 5 chs. N. of our station.

  At 9 hrs. 0 m., a.m., l.m.t., we set off 32°27½'N. on the lat. arcs; 10°28'S. on the decl. arcs; and determine a meridian with each solar, which in each case agrees with the true meridian.
- At apparent noon, with the lat. arcs unchanged, we observe the sun on the meridian with each solar; the resulting decl. with each instrument is 10°25½'S., which is the computed decl. of the sun.
- At 3 hrs. 0 m., p.m., l.m.t., with the lat. arcs unchanged, we set off 10°22½'S. on the decl. arcs, and determine a meridian with each solar, which in each case agrees with the true meridian.
- As all of the solar observations during the usual hours of solar work come within 1'30" of the true meridian, we conclude that the adjustments of the solars are satisfactory.

Fractional of T. 12 Survey of the East Boundary

Chains.

That part of the International Boundary between United States and Mexico, forming the South Boundary of Fractional T. 12 S., R. 21 W., was surveyed in 1854-1856 by William H. Emory, Major First Cavalry and U. S. Commissioner, and was resurveyed between existing monuments in 1891-1896 under the direction of the International Boundary Commission, headed by J. W. Barlow, Lieutenant Colonel, Corps of Engineers, U. S. A., No further retracement or resurvey is of record in this office.

From the cor. of Ts. 11 and 12 S., Rs. 20 and 21 W., described in Book "D"

South bet. secs. 1 and 6.

Over gently rolling land, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.00 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked on brass cap

> T12S R21W | R20W s 1 s 6 s12 s 7 S12|S 1920

Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist. Land, gently rolling; drains NW. Soil, sandy, 3rd rate.

No timber

Undergrowth, greasewood. Fair growth of galletta grass.

South bet. secs. 7 and 12.

Over gently rolling land, through scattering undergrowth. Asc. gradually

7.00 40.00 Low raise, slopes W. Desc. very gradually.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap

> s12 s 7 1920

Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.

80.00

dist. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked on brass cap

> T12S R21W R20W S12 S 7 S13 S18 1920

Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist. Land, gently rolling; drains W. Soil, sandy, 2nd rate.

No timber.

Undergrowth, greasewood and sagebrush.

Fair growth of galletta grass and Indian wheat.

39.44

4

<u>Survey of the East Boundary of Fractional</u> Chains South bet. secs. 13 and 18. Over nearly level land, through scattering undergrowth. Set an iron post, 3 ft. long, l in. diam., 26 ins. in the 40.00 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap S13 | S18 Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked on 80.00 brass cap T12S R21W R20W S13 S18 S24 S19 1920 Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.
Land, nearly level; slopes W. Soil, sandy, 2nd rate. No timber. Undergrowth, greasewood and sagebrush. Fair growth of Indian wheat. South bet. secs. 19 and 24. Over nearly level land, through scattering undergrowth. 25.00 Leave scattering undergrowth, enter W. end of cleared land, extending about  $\frac{1}{2}$  mile E. Dim road, brs. NW. and SE. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 37.60 40.00 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist. 45.00 Leave clearing, brs. E. and W. Thence through scattering undergrowth. 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked on brass cap T12S R21W R20W \$24 \$19 \$25 \$30 1920 Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist. Land, nearly level; drains W. Soil, sandy loam, 2nd rate. No timber. Undergrowth, greasewood. Fair growth of galletta grass and Indian wheat. South bet. secs. 25 and 30. Over nearly level land, through scattering undergrowth.

Intersect 60 ft. International Boundary Reserve, which

brs. N.70°20'W. and S.70°20'E.

Survey of the East Boundary of Fractional T. 12 S., R. 21 W

Chains.

At the point of intersection, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for Boundary Reserve closing cor. of fractional Ts. 12 S., Rs. 20 and 21 W., marked on brass cap

T12S R21W R20W S25 S30 C C IB<sub>R</sub> 1920

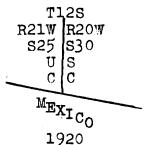
40.41

Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist.

Intersect International Boundary between United States and Mexico, 42.82 chs. N.70°20'W. of Boundary Monument No. 197, which is of sectional iron, 8 ft. high, with concrete base, 3 ft. square. The monument faces N.19°40'E., and is marked on the United States side, "Boundary of the United States Treaty of 1853 Reestablished by Treaties 1882-1889." On the Mexican side is the inscription "Limite de la Republica Mexicana Tretado de 1853 Restablicido por Tretados de 1882-1889." The monument number, 197, is on the E. face, near the top.

number, 197, is on the E. face, near the top.

At the point of intersection, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for closing cor. of fractional Ts. 12 S., Rs. 20 and 21 W., marked on brass cap



Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist. Land, nearly level; drains W. Soil, sandy loam, 2nd rate. No timber.

Undergrowth, greasewood and sagebrush. Fair growth of galletta grass and Indian wheat.

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Sur Chains.	vey of the West Boundary of Fractional T. 12 S., R. 21 W.
40.00	From the cor. of Ts. 11 and 12 S., Rs. 21 and 22 W., described in Book "D", South bet. secs. 1 and 6. Over gently rolling land, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap
	s 1 s 6 1920
	Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.
80.00	Set an iron post, 3 ft. long, 2 ins, diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked on brass cap
	T12S R22W R21W S 1 S 6 S12 S 7 1920
	Dig pits, 18 x 18 x 12 ins., in each sec., NE., SE., SW., and NW. of post, 3 ft. dist.  Land, gently rolling.  Soil, sandy loam, 2nd rate.
	No timber. Undergrowth, greasewood and sagebrush. Fair growth of galletta grass and Indian wheat.
40.00	South bet. secs. 7 and 12.  Over gently rolling land, through scattering undergrowth.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap
	$s1^{\frac{1}{2}}$   $s$ 7
	Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
80.00	dist. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked on brass can
	T12S R22W R21W S12 S 7 S13 S18 1920
	Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.  Land, gently rolling.  Soil, sandy loam, 2nd rate.  No timber.  Undergrowth, greasewood and sagebrush.  Fair growth of galletta grass and Indian wheat.
28.78	South bet. secs. 13 and 18.  Over nearly level land, through scattering undergrowth.  Intersect 60 ft. International Boundary Reserve, which brs. N.70°20'W. and S.70°20'E.  At the point of intersection, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for Boundary Reserve closing cor. of fractional Ts. 12 S., Rs. 21 and 22 W., marked on brass cap

Survey of the West Boundary of Fractional T. 12 S., R. 21 W.

Chains

T12S R22W | R21W S13 | S18 C IBR 1920

Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist. 29.75 Intersect International Boundary between United States and Mexico, 161.74 chs. N.70°20'W. of Boundary Monument No. 198. The description of this monument is identical with the exception of the number, to monument No. 197, hereinbefore described.

At the point of intersection, set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for closing cor. of fractional Ts. 12 S., Rs. 21 and 22 W., marked on brass

> T12S R22W | R21W s13 s18 U S MEXI CO 1920

Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist. Land, nearly level; drains W. Soil, sandy loam, 2nd rate.

No timber.

Undergrowth, greasewood and sagebrush. Fair growth of galletta grass and Indian wheat.

Boundaries of Fractional T. 12 S., R. 21 W. Latitudes, departures and closing errors.

				Latit	udes.	Depar	rtures	1.
Line de	signated.	True bearing.	Dist.	N.	s.	Ε.	W.	•
			chs.	chs.	chs.	chs.	chs	
Int. Bd	у.	N.70°20'W.	7505.77	170.22			476.2	7
W. Bdy.		North	189.75	189.75				
N. Bdy.		N.89°58'E.	475.68	.28	•	475.68		
E. Bdy,	,	South	360.41	•	360.41			
Converg	ency.		· e			.26		
Totals				360 <b>.25</b>	360.41	475.94		
Error i	n lat.				360.25		475.9	4
Error i	n dep.					•	•3	<b>l</b> 3

Survey of Subdivision of Fractional T. 12 S., R. 21 W. From the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of Tp., described in Book "D", S.0°1'E., bet. secs. 1 and 2. Over gently rolling land, through scattering undergrowth. Asc. 50 ft. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  $s = 2 \int_{0}^{\frac{\pi}{4}} s = 1$ Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. Asc. 50 ft. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked on 80.00 T12S R21W S 2 S 1 S11 S12 Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist. Land, gently rolling; drains NW. Soil, sandy loam, 2nd rate. No timber. Undergrowth, greasewood and sagebrush. Fair growth of galletta grass and Indian wheat. N.89\*58'E., on a random line, bet. secs. 1 and 12.

Set temp. \(\frac{1}{4}\) sec. cor.

Fall 9 lks. N. of the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of To., hereinbefore described. 40.00 80.02 Thence N.89°58'W., on a true line, bet. secs. 1 and 12.

Over nearly level land, through scattering undergrowth.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.01 ground for \frac{1}{4} sec. cor., marked on brass cap 1 S 1 4 S12 1920 Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist. The cor. of secs. 1, 2, 11 and 12. Land, nearly level; drains N. Soil, sandy loam, 2nd rate. 80.02 No timber. Undergrowth, greasewood and sagebrush. Fair growth of galletta grass and Indian wheat. S.O'l'E., bet. secs. 11 and 12. Over gently rolling land, through scattering undergrowth. Asc. slightly. 5.00 Low raise, brs. E. and W. Thence over level land. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.00 ground, for ½ sec. cor., marked on brass cap S11 | S12

1920

10 Survey of the Subdivision of Fractional T. Chains. Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap T12S R21W S11 S12 S14 S13 1920 Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.

Land, gently rolling and level.

Soil, sandy loam, 2nd rate. No timber. Undergrowth, greasewood and sagebrush. Fair growth of galletta grass and Indian wheat. S.89°58'E., on a random line, bet. secs. 12 and 13. Set temp.  $\frac{1}{4}$  sec. cor. Fall 5 lks. S. of the cor. of secs. 7, 12, 13 and 18, on 40.00 80.00 E. bdy. of Tp., hereinbefore described. Thence West on a true line, bet. secs. 12 and 13.

Over gently rolling land, through scattering undergrowth.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.00 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap \$\frac{1}{2} \frac{\$\$12}{\$\$13} \\ 1920 Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist. The cor, of secs. 11, 12, 13 and 14. Land, gently rolling; drains W. 80.00 Soil, sandy loam, 2nd rate. No timber Undergrowth, greasewood and sagebrush. Fair growth of galletta grass and Indian wheat. S.0°1'E., bet. secs. 13 and 14. Over level land, through medium undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins.in the 40.00 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap s14 s13 Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist. Enter clearing, brs. E. and W.
Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked on 70.00 80.00 brass cap T12S R21W S14 S13 S23 | S24 1920 Dig pits, 18 X 18  $^{\rm X}$  12 ins., in each sec., NE., SE., SW and NW. of post, 3 ft. dist. Land, level; drains W.

Soil, sandy loam, 2nd rate.

Undergrowth, greasewood and sagebrush.

No timber.

		Survey of the Subdivision of Fractional T. 12 S., R. 21 W.
	Chains.	Fair growth of Indian wheat.
	40.00 79.96	East on a random line, bet. secs. 13 and 24.  Set temp. ½ sec. cor.  Intersect the cor. of secs. 13, 18, 19 and 24, on the E.  bdy. of Tp., hereinbefore described.  Thence
•	16.75 39.98	West on a true line, bet. secs. 13 and 24.  Over gently rolling land, through medium undergrowth.  Dim road, brs. NE. and SW.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \(\frac{1}{4}\) sec. cor., marked on brass cap
		1 S13 4 S24 1920
<	<b>72.</b> 95 79.96	Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.  Enter clearing, brs. N. and S. The cor. of secs. 13, 14, 23 and 24.  Land, gently rolling; drains W. Soil, sandy, 2nd rate.  No timber.  Undergrowth, greasewood and sagebrush.  Fair growth of galletta grass and Indian wheat.
	5.00 20.00 40.00	S.0°1'E., bet. secs. 23 and 24.  Over level land.  Leave clearing, brs. E. and W. Thence through scattering undergrowth.  Enter heavy sand, brs. W. and SE.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap
		\$23 \sum \seta \se
	80.00	Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.  Set an iron post, 3 ft. long, 2 ins.diam., 24 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked on brass cap  T125 R21W  S23 S24  S26 S25  1920
		Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.  Land, level.  Soil, sandy, 2nd and 4th rates.  No timber.  Undergrowth, greasewood and sagebrush.
		East on a random line, bet. secs. 24 and 25.
	40.00 <b>7</b> 9 <b>.96</b>	Set temp. \(\frac{1}{4}\) sec. cor.  Fall 5 lks. N. of the cor. of secs. 19, 24, 25 and 30, on the E. bdy. of Tp., hereinbefore described.  Thence
		N.89°58'W., on a true line, bet. secs. 24 and 25. Over level land, through scattering undergrowth.

BOCK 8452

Survey of the Subdivision of Fractional T. 12 S., R. 21 W. 39.98 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap Dig pits, 18 X 8 X 12 ins., E. and W. of post, 3 ft. dist. The cor. of secs. 23, 24, 25 and 26. and, level; drains NW. 79.96 Soil, sandy, 2nd rate. No timber. Undergrowth, greasewood and sagebrush. S.0'1'E., bet. secs. 25 and 26. Over level land, through scattering undergrowth. Intersect 60 ft. International Boundary Reserve, which brs. N.70°20'W. and S.70°20'E.

At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for Boundary Reserve closing cor. of fractional secs. 25 and 26, 10.88 marked on brass cap T125 R21W s26 s25 CC 1920 Dig pits,  $18 \times 18 \times 12$  ins., on each line, 3 ft. dist. Intersect International Boundary between United States and Mexico, 127.75 chs. N.70°20'W. of International Boundary 11.85 Monument No. 197, hereinbefore described. At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of fractional secs. 25 and 26, marked on brass cap T12S R21W S26 S25 US 1920 Dig pits,  $18 \times 18 \times 12$  ins., on each line, 3 ft. dist. Land, level. Soil, sandy, 4th rate. No timber. Undergrowth, greasewood and sagebrush. From the cor. of secs. 2, 3, 34 and 35, on the N. bdy. of Tp., hdescribed in Book "D", S.0°1'E., bet. secs. 2 and 3. Over nearly level land, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.00 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap s?3 s 2 1920

Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.

dist.

Survey of the Subdivision of Fractional T. Chains. Set an iron post, 3 ft. long, 2 ins diam., 24 ins. in the 80.00 ground, for cor. of secs. 2, 3, 10 and 11, marked on brass cap T12S R21W S 3 S 2 S10 S11 Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.

Land, nearly level. Soil, shifting sand; 4th rate. No timber. Undergrowth, greasewood and sagebrush. N.89°58'E., on a random line, bet. secs. 2 and 11. Set temp.  $\frac{1}{4}$  sec. cor. Intersect N. and S. line, 2 lks. N. of the cor. of secs. 40.00 80.08 1, 2, 11 and 12. Thence S.89°59'W., on a true line, bet. secs. 2 and 11.

Over gently rolling land, through medium undergrowth.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.04 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap 1 S 2 4 S11 Dig pits,  $18 \times 18 \times 12$  ins., E. and W. of post, 3 ft. dist. 80.08 The cor. of secs. 2, 3, 10 and 11. Land, gently rolling. Soil, sandy, 3rd and 4th rates. No timber. Undergrowth, greasewood and sagebrush. Fair growth of Indian wheat. S.0°1'E., bet. secs. 10 and 11. Over nearly level land, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.00 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap S10 S11 Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. Thence over sand dunes, br. WNW. and SW.
Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked on 80.00 brass cap T12S R21W S10 S11 S15 S14 1920 Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.
Land, nearly level. Soil, drifting sand; 4th rate. No timber.

Undergrowth, sagebrush.

13		vey of the Subdivision of Fractional T. 12 S., R. 21 W.
	40.00 80.08	N.89°59'E., on a random line bet. secs.11 and 14.  Set temp. ½ sec. cor.  Intersect N. and S. line, 5 lks. N. of the cor. of secs.  11, 12, 13 and 14.  Thence
•	30.10	N.89°59'W., on a true line, bet. secs. 11 and 14.  Over level land, through scattering undergrowth.  Leave level land; thence over gently rolling sand dunes,  through thick sand.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  ground, for ½ sec. cor., marked on brass cap
		1. S11 4. S14 1920
	80.08	Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.  The cor. of secs. 10, 11, 14 and 15.  Land, level and gently rolling.  Soil, sandy, 3rd and 4th rates.  No timber.  Undergrowth, greasewood and sagebrush.  Fair growth of galletta grass.
	20.00	S.0°1'E., bet. secs. 14 and 15.  Over gently rolling land, over sand dunes, through scattering undergrowth.  Leave sand dunes, br. W. and NE. Thence over nearly level land.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 4 sec. cor., marked on brass cap
		S15   S14 1920
	80.00	Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.  Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap  T12S R21W  S15 S14  S22 S23  1920
		Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.  Land, gently rolling and nearly level.  Soil, sand, 4th rate.  No timber.  Undergrowth, sagebrush and greasewood.
	40.00 80.10	S.89°59'E., on a random line, bet. secs. 14 and 23. Set temp. ½ sec. cor. Intersect N. and S. line, 2 lks. N. of the cor. of secs. 13, 14, 23 and 24.
	20.30 40.05	Thence N.89.58.W., on a true line, bet. secs. 14 and 23.  Over level land, devoid of timberiog undergrowth.  Dim road, brs. NW. and SE.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \(\frac{1}{4}\) sec. cor., marked on brass cap
		<sub>1</sub> S14

Survey of the Subdivision of Fractional T. 12 S., R. 21 W. Chains. Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. 55.10 Leave clearing, enter undergrowth and deep sand, brs. N. and S. The cor. of secs. 14, 15, 22 and 23. 80.10 Land, level. Soil, sandy loam, 2nd rate; remainder, sandy, 4th rate. No timber. Undergrowth, greasewood and sagebrush. S.0°1'E., bet. secs. 22 and 23. Over level land, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.00 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist. 62.22 Intersect 60 ft. International Boundary Reserve, which brs. N.70°20'W. and S.70°20'E. At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for Boundary Reserve closing cor. of fractional secs. 22 and 23, marked on brass cap T125 R21W S22 S23 1920 Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist. 63.19 Intersect International Boundary between United States and Mexico, 212.89 chs. N.70°20'W. of Boundary Monument No. 197, hereinbefore described. At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of fractional secs. 22 and 23, marked on brass cap T12S R21W S22 S23 U S 1920 Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist. Dand, level. Soil, 4th rate. No timber. Undergrowth, greasewood and sagebrush. From the cor. of secs. 23, 24, 25 and 26, N.89°58'W. on a true line, bet. secs. 23 and 26. Over gently rolling land, through scattering undergrowth. Intersect 60 ft. International Boundary Reserve, which brs. N.70°20'W. and S.70°20'E. 30.58 At the point of intersection, set an iron post, 3 ft. long,

2 ins. diam., 24 ins. in the ground, for Boundary Reserve closing cor. of fractional secs. 23 and 26, marked on

brass cap

Survey of the Subdivision of Fractional T T12S R21W 1920 Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist. Intersect International Boundary between United States and 33.28 Mexico, 163.11 chs. N.70°20'W. of Boundary Monument No 197, hereinbefore described. At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of fractional secs. 23 and 26, marked on brass cap MEXC S23 C S26 Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist. Land, gently rolling. Soil, 4th rate; sand dunes. No timber. Undergrowth, greasewood and sagebrush. From the cor. of secs. 3, 4, 33 and 34, on the N. bdy. of Tp., described in Book "D", S.0°2'E., bet. secs. 3 and 4. Over rolling sand dunes, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.00 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap s 4 s 3 Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked on 80.00 brass cap T12S R21W S 4 S 3 S 9 S10 1920 Dig pits, 18 X 28 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.

Land, rolling sand dunes. Soil, sandy, 3rd rate. No timber. Undergrowth, sagebrush and greasewood. N.89°58'E., on a random line, bet. secs. 3 and 10. Set temp.  $\frac{1}{4}$  sec. cor. Intersect N. and S. line, 9 lks. N. of the cor. of secs. 40.00 80.04 2, 3, 10 and 11. Thence V.89°58'W., on a true line, bet. secs. 3 and 10. Over level land, through scattering undergrowth. Thence over rolling land, across sand dunes.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap 10.00 40.02

> 1 S 3 510

		10 miles (10 miles 10	
		rvey of the Subdivision of Fractional T. 12 S., R. 21 W.	
	Chains.	Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.	
•	80.04	The cor. of secs. 3, 4, 9 and 10. Land, level and rolling. Soil, sandy, 3rd rate.	
_		No timber. Undergrowth, greasewood and sagebrush.	
•	-		
	40.00	S.0°2'E., bet. secs. 9 and 10.  Over rolling sand dunes, through scattering undergrowth.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap	
		s 9 s10	
		Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.	
	80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked on brass cap	;
		T12s R21W s 9 s10 s16 s15 1920	
_		Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.  Land, rolling sand dunes.  Soil, sandy, 3rd rate.  No timber.  Undergrowth, greasewood and sagebrush.	
	-	,	
	40.00 79.98	S.89°58'E., on a random line, bet. secs. 10 and 15.  Set temp. ½ sec. cor.  Intersect the cor. of secs. 10, 11, 14 and 15,  Thence	
	39.99	N.89°58'W., on a true line, bet. secs. 10 and 15.  Over rolling sand dunes, through scattering undergrowth.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap	
		1 S10 2 S15 1920	
	<b>7</b> 9 <b>.98</b>	Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.  The cor. of secs. 9, 10, 15 and 16.  Land, rolling sand dunes.	
		Soil, sand, 4th rate. No timber. Undergrowth, sagebrush and greasewood.	
1	<b>-</b>		
	40.00	S.0°2'E., bet. secs. 15 and 16.  Over rolling sand dunes, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap	
		S16 s15	
		1920	

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18
          Survey of the Subdivision of Fractional T. 12 S., R. 21 W.
     Chains.
                 Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
                 dist.
               Thence across deep sand.
               Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked on
      80.00
                 brass cap
                                        T12S R21W
S16 S15
S21 S22
                                            1920
                 Dig pits, 18 \times 18 \times 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.
               Land, rolling.
Soil, 4th rate; sand dunes and shifting sand.
               No timber.
               Undergrowth, greasewood and sagebrush.
              S.89°58'E., on a random line, bet. secs. 15 and 22. Set temp. \frac{1}{4} sec. cor. Intersect the cor. of secs. 14, 15, 22 and 23.
      40.00
      80.08
               Lhence
               N.89^{\circ}58^{\circ}W, on a true line, bet. secs. 15 and 22.
              Over rolling land, through scattering undergrowth.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
      40.04
                 ground, for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4} S15
                                         4 S22
                                          1920
                 Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft.
      80.08
              The cor. of secs. 15, 16, 21 and 22.
               Land, rolling.
               Soil, drifting sand, 4th rate.
               No timber.
               Undergrowth, greasewood and sagebrush.
               S.0°2'E., bet. secs. 21 and 22.
               Over rolling land, through scattering undergrowth.
              Intersect 60 ft. International Boundary Reserve, which
      33.52
                 brs. N.70°20'W. and S.70°20'E.
              At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for Boundary Reserve
                 closing cor. of fractional secs. 21 and 22, marked on
                 brass cap
                                        T12S R21W
S21 S22
                                            1920
                 Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist.
      34.49
              Intersect International Boundary between United States and
                 Mexico, 298.00 chs. N.70°20'W. of Boundary Monument No.
                 197, hereinbefore described.
              At the point of intersection, set an iron post, 3 ft. long,
                 2 ins. diam., 24 ins. in the ground, for closing cor. of
                 fractional secs. 21 and 22, marked on brass cap
                                        T128 R21W
                                         S21 S22
                                            U
                                              S
                                          MEXICO
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Survey of the Subdivision of Fractional T. 12 S., R. 21 W. Cha ins Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist. Land, rolling. Soil, drifting sand, 4th rate. No timber. Undergrowth, greasewood and sagebrush. From the cor. of secs. 4, 5, 32 and 33, on the N. bdy. of Tp., described in Book "D", S.0°2'E., bet. secs. 4 and 5. Over rolling sand dunes, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.00 ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap s 5 s 4 Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked on brass 00.08 T12S R21W S 5 S 4 S 8 S 9 1920 Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.

Land, rolling sand dunes. Soil, sand, 3rd rate. No timber. Undergrowth, greasewood and sagebrush. N.89°58'E., on a random line, bet. secs. 4 and 9. Set temp.  $\frac{1}{4}$  sec.cor. 40.00 80.04 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 3, 4, 9 and 10. Thence N.89°58'W., on a true line, bet. secs. 4 and 9. Over rolling sand dunes, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the 40.02 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist. 80.04 The cor. of secs. 4, 5, 8 and 9. Land, rolling sand dunes. Soil, sand, 3rd rate, No timber. Undergrowth, greasewood and sagebrush. S.0'2'E. bet. secs. 8 and 9. Over rolling land, through scattering undergrowth. 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

s 8 | s 9

	yey of the Subdivision of Fractional T. 12 S., R. 21 W.
Chains.	Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on
•	T125 R21W  S8 S9  S17   S16  1920
]	Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist.  Land, rolling.  Soil, shifting sand, 4th rate.  No timber.  Undergrowth, greesewood and sagebrush.
40.00 80.04	S.89°58'E., on a random line, bet. secs. 9 and 16.  Set temp. ½ sec. cor.  Intersect N. and S. line, 9 lks. S. of the cor. of secs.  9, 10, 15 and 16.  Thence  S.89°58'W., on a true line, bet. secs. 9 and 16.
20.00	Over rolling sand dunes, through scattering undergrowth. Leave sand dunes, br. NE. and SW. Thence over deep drift-
40.02	ing sands. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap
80.04	Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.  The cor. of secs. 8, 9, 16 and 17.  Land, rolling.  Soil, sand, 4th rate; sand dunes and drifting sand.  No timber.  Undergrowth, greasewood and sagebrush.
40.00	S.0°2'E., bet. secs. 16 and 17.  Over rolling land, through scattering undergrowth.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 4 sec.ccor., marked on brass cap
	\$17 <sup>4</sup> \$16 1920
75.00	Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist. Leave rolling, enter mountainous land. Asc. 80 ft., over
78.50 80.00	N. slope. Spur, slopes ENE. Desc. 45 ft. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked on brass cap
	T12S R21W S17 S16 S20 S21 1920
	And raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.  Land, rolling and mountainous.

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Survey of the Subdivision of Fractional T. 12 S., R. 21 W.
Chains.
             Soil, sand, 4th rate; S. 5 chs., rocky, 4th rate.
            No timber.
             Undergrowth, greasewood and sagebrush.
             N.89°58'E., on a random line, bet. secs. 16 and 21. Set temp. \frac{1}{4} sec. cor.
             Set temp.
 40.00
             Intersect the cor. of secs. 15, 16, 21 and 22.
 80.04
             Thence
            S.89°58'W., on a true line, bet. secs. 16 and 21.
Over rolling sand dunes, through scattering undergrowth.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 40.02
                ground, for \frac{1}{4} sec. cor., marked on brass cap
                                                1920
1920
                Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft.
            Leave sand dunes; thence over deep sand.

Leave sand; asc. E. slope of hill.

The cor. of secs. 16, 17, 20 and 21.

Land, rolling; W. 5 chs., mountainous.

Soil, sand dunes and drifting sand; 4th rate; W. 5 chs.,
 75.00
 80.04
               rocky, 4th rate.
             No timber.
            Undergrowth, greasewood and sagebrush.
             S.0°2'E., bet. secs. 20 and 21.
             Over mountainous land, through scattering undergrowth.
            Asc. 50 ft., over NE. slope.
Spur, slopes E. Desc. 75 ft.
Intersect 60 ft. International Boundary Reserve, which
  2.30
4.80
                brs. N.70°20'W. and S.70°20'E.
            At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., on bed rock, with marked stone, for
                Boundary Reserve closing cor. of fractional secs. 20 and 21; and raise a mound of stone, 3 ft. base, 1\frac{1}{2} ft. high,
                around post,
                                       with brass cap marked
                                               T12S R21W
S20 S21
                                                    clc
                                                    \hat{I}_{B_{\mathbf{R}}}
                                                    1920
                And raise a mound of stone, 3 ft. base, 1\frac{1}{2} ft. high, N.
                of cor.
            Intersect International Boundary between United States and Mexico, 383.05 chs. N.70°20'W. of Boundary Monument No. 197, hereinbefore described, and 3.80 chs. S.70°20'E. of Boundary Monument No. 198, hereinbefore described.
  5.77
            At the point of intersection, set an iron post, 3 ft. long,
               2 ins. diam., 24 ins. in the ground, with marked stone, for closing cor. of fractional secs. 20 and 21; and raise a mound of stone, around post, with brass cap marked
                                              T12S R21W
S20 S21
U S
                                                  MEXICO
                                                    1920
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And raise a mound of stone, 3 ft. base,  $1\frac{1}{2}$  ft. high, N.

of cor.

	ey of the Subdivision of Fractional T. 12 S., R. 21 W.
Chains.	Land, mountainous. Soil, rocky, 4th rate.
,	No timber. Undergrowth, greasewood.
	From the cor. of secs. 5, 6, 31 and 32, on the N. bdy. of Tp., described in Book "D", S.0°3'E., bet. secs. 5 and 6.
40.00	Over gently rolling land, through scattering undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap
	s 6 s 5
	Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
80.00	dist. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked on brass cap
<b>.</b> .	T12S R21W S 6 S 5 S 7 S 8 1920
	Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW. and NW. of post, 3 ft. dist. Land, gently rolling; drains NE. Soil, sandy, 4th rate. No timber.
	Undergrowth, greasewood and sagebrush.  Tair growth of galletta grass.
40.00	N.89°58'E., on a random line, bet. secs. 5 and 8.  Set temp. ½ sec. cor.  Intersect the cor. of secs. 4, 5, 8 and 9.  Thence
40.02	S.89°58'W., on a true line, bet. secs. 5 and 8.  Over gently rolling land, through scattering undergrowth.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap
	1 S 5 4 S 8 1920
80.04	Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist. The cor. of secs. 5, 6, 7 and 8. Land, gently rolling; drains NE. Soil, sandy loam, 4th rate. No timber.
	Undergrowth, greasewood and sagebrush. Fair growth of galletta grass.
40.00	S.89°58'W., on a random line, bet. secs. 6 and 7. Set temp. $\frac{1}{4}$ sec. cor.
75.62	Fall 12 lks. S. of the cor. of secs. 1, 6, 7 and 12, on the W. bdy. of Tp., hereinbefore described.  Thence
	S.89°57'E., on a true line bet. secs. 6 and 7. Over gently rolling land, through scattering undergrowth.

		3452
	Cum	vev of the Subdivision of Fractional T. 12 S., R. 21 W.
	Chains.	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
-		ground, for ½ sec. cor., marked on brass cap
		1 S 6 4 S 7 1920
•		Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.
	75.62	The cor. of secs. 5, 6, 7 and 8.  Land, gently rolling; drains NE.
		Soil, sandy, 4th rate. No timber. Undergrowth, greasewood and sagebrush.
·		Fair growth of galletta grass.
	•	
		S.0°3'E., bet. secs. 7 and 8. Over rolling land, through scattering undergrowth.
	20.00 40.00	Asc. gradual slope.  Ridge, brs. NW. and SE. Desc. gradual slope.  Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{4} \) sec. cor., marked on brass cap
		s 7 s 8
		1920
<u>-</u>	90.00	Dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.
	80 <b>.00</b>	Set an iron bost, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked on brass cap
		T12S R21W S 7 S 8 S18 S17
		1920 Dig pits, 18 X 18 X 12 ins., in each sec., NE., SE., SW.
		and NW. of post, 3 ft. dist.  Land, rolling.
	•	Soil, sandy, 4th rate.  No timber.  Undergrowth, greasewood and sagebrush.
		Fair growth of galletta grass.
	•	000000
	40.00 80.12	N.89°58'E., on a random line, bet. secs. 8 and 17.  Set temp. \(\frac{1}{2}\) sec. cor.  Intersect the cor. of secs. 8, 9, 16 and 17.
		Thence S.89°58'W., on a true line, bet. secs. 8 and 17. Over rolling land, through scattering undergrowth.
	20.00	Asc. gradual slope. Ridge, brs. NW. and SE. Desc. gradual slope.
	40.06	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for \( \frac{1}{2} \) sec. cor., marked on brass cap
_		1 S 8 4 S17 1920
		Dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.
	80.12	The cor. of secs. 7, 8, 17 and 18.  Land, rolling.  Soil, sandy, 3rd rate; beach stones on slopes.
	1	No timber. Indergrowth, greasewood and sagebrush.

Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist.

Survey of the Subdivision of Fractional T. 12 S., R. 21 W.

Chains.

6.00

Land, gently rolling; drains SW. Soil, 3rd rate.

No timber.

Undergrowth, greasewood and sagebrush.

From the cor. of secs. 16, 17, 20 and 21, \$.89.58 W., bet. secs. 17 and 20.

Over mountainous land, through scattering undergrowth.

2.00

Asc. 65 ft., over E. slope.
Ridge, brs. M. and S. Desc. W. slope, 115 ft.
Foot of descent, brs. N. and S. Thence over gently roll-

ing land.

Intersect 60 ft. International Boundary Reserve, which brs. N.70°20'W. and S.70°20'E. 13.59

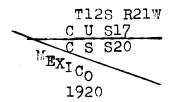
At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for Boundary Reserve closing cor. of fractional secs. 17 and 20, marked on brass cap

> T12S R21W <u>C</u> S17 IBR C S20 1920

16.29

Dig pits, 18 X 18 X 12 ins., on each line, 3 ft. dist. Intersect International Boundary between United States and Mexico, 13.48 chs. N.70°20'W. of Boundary Monument No. 198, hereinbefore described.

At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of fractional secs. 17 and 20, marked on brass cap



Dig pits,  $18 \times 118 \times 12$  ins., on each line, 3 ft. dist. Land, mountainous.and gently rolling. Soil, sandy and rocky, 4th rate.

No timber.

Undergrowth, greasewood.

The continued satisfactory adjustment of the solar apparatus during the survey of this fractional Tp. is indicated from field texts as described in Book "F".

#### GENERAL DESCRIPTION.

The central part of this fractional Tp. consists of shifting sand dunes, in quality 4th rate. Along the east bdy. is some fairly good sandy loam soil, 2nd rate. In this portion of the Tp., scattered clearings indicate cultivation, presumably by Indians. The SW. portion of the Tp. has a slightly rolling surface, covered with beach stones.

A scattering growth of greasewood and sagebrush is found over the To.; also a fair growth of Indian wheat and gallet galletta grass, except in the areas of deep sand. There are no settlers.

No water is found in the township.

On the largest and morthernmost of a chain of small granite hills extending into Mexico, parallel to the International Boundary between United States and Mexico, near the cor.

of secs. 16, 17, 20 and 21, is located Boundary Monument No. 198, the only International Boundary Cor. within the township.

BOOK 3452

4--680

#### FIELD ASSISTANTS. %

William D. Wils	on, Temporary U.S. Transitman.
NAMES.	CAPACITY.
William J. Tavenner	1st Chainman
Peter, Wilchinsky	2nd Chainman.
Frank W. Owen	Cornerman
Tom G. Miles	Axman and 2nd Chainman
Sames Maher Charles O. Harris	Axman and Flagman
•	
•	

# CERTIFICATE OF UNITED STATES FRANSITMAN.

I, William D. Wilson, Temporary U.S. Transitman ar, hereby certify upon honor that, in pursuance
of special instructions received from the U.S. Surveyor General, for Group 95, Arizona
bearing date of the 10th day of March , 1919, I have well, faithfully, and truly
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United States, surveyed all those parts or portions of the
West Boundary and
Subdivision Lines of
Fractional Township 12 South, Range 21 West
of the Gila and Salf
River Base and Meridian, in the State of Arizona, which are represented in and by diagram on page I hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of
said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the U.S. Surveyor General, for Group 95, Arizona,
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
Place, Tarkland, Wash. Hilliam D. Milson Date, Aug. 13, 1921. Temporary U.S. Transitman
Place, Markeland, Nash. Milliam Dollerson Temporary U.S. Transitman
Date, aug. 13, 1921.
APPROVAL.
Office of the United States Surveyor General,
, 191
The foregoing field notes of the survey of
executed by
under his special instructions dated, 191 , having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.
N. S. Surveyor General.
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.

#### FIELD ASSISTANTS. 6

William H. Thorn, U.S. Cadastral Engineer	
NAMES.	CAPACITY.
Benjamin V. Kinsey	1st Chainman
Homer Pepper	2nd Chainman
Manfred Owen	Cornerman.
Edward E. Wright	Axman
Jack Elliott	Axman and Flagman
,	
<u> </u>	
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## CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

I, William H. Thorn, U.S. (adastral Engineer), hereby certify upon honor that, in pursuance
of special instructions received from the U. S. Surveyor General, for Group 95, Arizona
bearing date of the 10th day of March, 1919, I have well, faithfully, and truly
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United States, surveyed all those parts or portions of the
East and West Boundaries
and
Subdivision Lines of
Fractional Township 12 South, Range 21 West
of the Gila and Salt
River Base and Meridian, in the State of Arizona, which are represented in and by diagram on page I hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of
said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the U.S. Surveyor General, for Group 95, Arizona
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
Place, Phaenny and Milliam & Villiam & Victoria U.S. Cadastral Engineer:
Date, July 16/12 U.S. Cadastral Engineer:
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
. Phoenix Arizona Aug. 20 , 1921
The foregoing field notes of the survey of the
East and West Boundaries
and
Subdivision Lines of
Fractional Township 12 South, Range 21 West of the Gila and Salt River Base and Meridian, in the State of Arizona.
executed by William H. Thorn, U.S. Cadastral Engineer
and William D. Wilson, Temporary U.S. Transitman
under special instructions dated March 10.1919 for Group 95 Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.
Grand Strott
U. S. Surveyor General.
I certify that the foregoing transcript of the field notes of the above described surveys in .
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.