FIELD NOTES Cacatal G.L.O. letter E. "aated Dec. 17, 1912. OF THE SURVEY OF THE

Queldir.	isions of 21/2 R 26 E.
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······································	Of the Meridian,
In the State	e of Clayana
	EXECUTED BY
. /	Med
	Alfred H. Oliver
In the capa	city of U.S. Surveyor, under instructions dated Mig. 1911,
	the United States Surveyor General to govern surveys included in
Group No	, which were approved by the Commissioner of the General Land
Office,	legest 18, 1911, pursuant to authority contained in the Act of uted March 4, 1911
Congress da	Survey commenced (September 17, 1911
	Survey completed October 11 1911

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BOOK 2334

INDEX DIAGRAM.

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INDEX DIAGRAM.

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Subdivision of To. 31 S. Rg. 26 E

1

Chains

Survey commenced September 17, 1911 and executed with an A. Lietz Co. light mountain transit No. 5631, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and approved by the Super-

vising Surveyor.

I examine the adjustments of the transit and find them correct, then, to test the solar apparatus, by comparing its indications, resulting from solar observations, made during a.m., and p.m., hours, with a meridian determined by observations on Polaris, I proceed as follows:

At camp near the standard cor. of Trs. 30 S. Eqs. 35 and 36 E. latitude 31° 38' 34" N. longitude 109° 45' 39" W. I set off 31° 382' N. on the lat. arc; 2° 26' N. on the decl. arc; and at 5h. OGm. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my station At 7h 49m r.m. by my watch which has correct 1.m.t., I observe Polaris at eastern elongation in accordance with manual of instructions, and mark a point in the line thus determined, on a reg driven in the ground 5 chs. N. of my station.

September 17, 1911

September 18: At 6h. 30m. a.m., l.m.t., I lay off the azimuth of Polaris 1. 32' to the west and mark the meridian thus determined, by cutting a small groove in the stone set September 17, on which the meridian coincides

1.....

with the mark determined by the solar.

At 7h. 00m. a.m., l.m.t., I set off 31° 38½' N. on the lat. arc; 3° 12' N. on the decl. arc; and mark a point in the meridian determined by the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus by p.m., and a.m., observations defines positions for meridians which coincide with the meridian determined by the Polaris observations; there fore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h. 15m. a. m., l.m.t., is N. 13° 15' W. the angle thus determined gives the mag. decl 13° 15' E.

I commence at the cor. of secs. 1, 8, 35 and 36 on the S. bdy. of the township
Thence I run

North on a random line finding No cors. until at Intersect N. bdy. of Tp. 94 lks. E. of the closing cor. of secs. 1 and 2

September 18: At the cor. of secs. 13, 14, 23 and 24 I set off 25 06 % N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 31c38号 N.

September 18, 1911

September 37: At 7h. 00m. a.m., I.m.t., I set off 31° $33\frac{1}{2}$ ' N. on the lat. arc; 1° 18 $\stackrel{\checkmark}{S}$. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1,3,35 and 36 on the S. bdy. of the Tp.

Thence I run N. O' 07' W. setting temp. cors. at proportional distances on line.

The distance between cors. was derived as follows: 475.57: 479.34:: 80.00: X pr 80.63 the length for each of the S. 5 miles of this tier. $475.57:479.34::75.57:x ext{ or } 76.17$ length for the N. mile of this tier.

The position for the desc. cor. bet. 1 and 2 is derived Chains! as follows

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75.57: 76.17:: 40.00: x or 40.32
75.57: 76.17:: 35.57: x or 35.85

Therefore I set temp cors. at 80.635 chs. along this line, commencing at the S. bdy. of the Tp.

Sept. 37: At the cor. of secs. 1, 6, 7 and 13 on the E. bdy. of the Tp. I set off 1° 342' 5% on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 31° 372' N.

September 27, 1911.

September 19: At 7h. 00m., a.m., l.m.t., I set off 31° 33½' N. on the lat. arc; l° 48½' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of the Tp. Thence I run

479.38

North on a random line finding no cors. until at Intersect N. bdy. of Tp. 108 lks. E. of the closing cor. of secs. 3 and 3 September 19: At the cor. of secs. 14, 15, 22 and 23 I set off 10 432! N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 31° 36' N.

September 19, 1911.

September 38: At 7h. 00m. a.m., l.m.t., I set off 31° 332' N. on the lat. arc; l' 41' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 3, 34 and 35 on the S. bdy. of the Tp. Thence I run

N. Or O8' W. setting temp. cors. at proportional distances on line

The distance between cors. was derived as follows: 476.30 : 479.38 :: 80.00 : x or 80.52 the

length for each of the S. 5 miles of this tier. 476.30: 479.38:: 76.30: x or 76.69 the length for the N. mile of this tier.

The position for the t sec. cor. bet. secs. 2 and 3 is

derived as follows:

76.30 : 76.69 :: 40.00 : x or 40.26

76.30: 76.69: 40.00: x or 40.36
76.30: 76.69: 36.30: x or 36.43

Therefore I set temp. cors. at 80.52 chs. along this line, commencing at the S. bdy. of the Tr. September: 28: At the cor. of secs. 7, 13, 13 and 18 on the E. bdy. of the Tp. I set off 1° 47½' S. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 31° 37' N.

September 28, 1911.

September 20: At 7h. 00m. a.m., l.m.t., I set off 31 33 1 N. on the lat. arc; 1 252 S. on the decl. arc and determine a meridian with the solar at the cor. of

secs. 3,4, 33 and 34 on the S. bdy. of the Tr.

Thence I run

North oh a random line finding no cors. until at

Intersect N. bdy. of Tr. 57 lks. E. of the closing cor.

of secs. 3 and 4 September 30; At the cor. of secs. 15, 16, 31 and 32 I set off 1: 19½: S./on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 31, 36, N.

September 30, 1911.

September 39: At 7h. COm. a.m., l.m.t., I set off 31: 332 N. on the lat. arc; 3: 042 S. on the decl. arc; and determine a meridian with the solar at the cor

Subdivision of Tp. 21 S. Rg. 26 E.

of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp. Thence I run

N. Oc 04' W. setting temp. cors. at proportional distances on line

The distance between cors. was derived as follows: 477.05: 479.31 :: 80.00 : x 80.38° the

length for each of the S. 5 miles of this tier.

477.05 : 479.31 ::77.05 : x 77.48 the

length for the N. mile of this tier. The resition for the $\frac{1}{4}$ sec. cor. bet. secs. 3 and 4 is derived as follows:

77.05 : 77.42 :: 40.00 : x 40.19 < 77.05 : 77.43 :: 37.05 : x37.23

Therefore I set temp. cors. at 80.38 chs. along this line commencing at the S. bdy. of the Tp. September 39: At the cor. of secs. 13, 19, 19 and 34 on the east bdy. of the Tp. I set off 3° 11' S. on the decl. arc; and observe the sun on the meridian at noon; the regulting let is 716.76! N the resulting lat. is 31° 36' N.

September 39, 1911.

John H. Hesse U.S. Transitman

September 18: At 7h. OOm. a.m., l.m.t., I set off 31° 33½'/N. on the lat. arc; 3° 12' N/on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tr.

Thence I run

North on a random line finding no $\frac{1}{4}$ sec. cor. Fall 19 lks. E. of old cor. of secs. 28, 29, 32, and 33 Thence I run N. from cor. finding no cors.

until at

Fall 10 lks. E. of old \(\frac{1}{4}\) sec. cor. bet. secs. 20 and 21 Thence I run N. from \(\frac{1}{6}\) sec. ccr. finding no

cors. until at

Intersect N. bdy. of Tp. 34 lks. W. of the closing cor. of secs. 4 and 5

September 18: At the cor. of secs. 16, 17 30 and 31 I set off 3° 06' N/on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 36' N.

Ulfud M. Olisson.

september 30: At 7h. OCm. a.m., l.m.t., I set off 31° 332' N. on the lat. arc; 3° 38' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 33 and 33 on the S. bdy. of the Tp.
Thence I run

N. O' 08' W. bet. secs. 38 and 33 The old cor. of secs.28, 39, 38 and 33 and point for re-establishment of cor.

Thence I run

N. Or o5' W. setting temp. cor. of secs. 20, 21, 38 and 39 by proportional distanceon line

The distance between cors. was derived as follows:

130.00 : 130.46 :: 80.00 : x

length for the mile bet. secs. 28 and 39

130.00: 130.46:: 40.00: x 40.15 the length of half mile bet. 20 and 21 running N. to the table sec. cor. bet. 30 and 31

Thence I run N. Oc 04' E. setting temp. cors. at proportional distandes on line

The distance between cors. was derived as follows:

79.88

79.88

120.46

Chains

277.95:: 279.73 :: 80.00 : x . 80.51 the length for the miles bet. secs. 8 and 9, 16 and 17, and 40.26 the length of the N. one half mile bet. secs. 20

277.95 : 279.73 :: 77.95 : x 78.45 the 7 length for the N. mile of this tier. The rosition for the $\frac{1}{4}$ sec. cor. bet. secs. 4 and 5 is derived as follows:

77.95 : 78.45 :: 40.00 : x 77.95 : 78.45 :: 37.95 : x 40.36 38.19 V Therefore I set temp. cors. at 40.36 and 80.51 chs. commencing at the \$\frac{1}{2}\$ sec. cor., bet. secs. 20 and 21 September 30: At the cor. of secs. 5, 6, 31 and 33 on the S. bdy. of the Tp. I set off 30 34½! N. or the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31 33½! N. Hesse U.S. Transitman.

September 16: At 7h. OOm. a.m., l.m.t., I set off 31° 33½ N. on the lat. arc; 2° 59 N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp.

480.57

Thence I run North on a random line finding no cors. until at Intersect N. bdy. of Tp. 61 lks. W. of the closing cor. of secs. 5 and 6 September 16: At the cor. of secs. 17, 18, 12 and 20 I set off 2° 52' N. on the decl. arc; and observe he sun on the meridian at noon; the resulting lat. is 31° 36' N.

U.S. TRANSITMAN

U.S. TRANSITMAN

September 30: I commence at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp.

Thence I run

N. O' 04' E. setting temp. cors. at proportional distances on line

The distance between cors. was derived as follows: 478.70: 480.57 :: 80.00 : X 80.31 the $\sqrt{}$ the v

length for each of the S. 5 miles of this tier.

478.70: 480.57:: 78.70: 🛪 79.01 the length for the N. mile of this tier. The rosition for the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 6 is

derived as follows:

78.70 : 79.01 :: 40.00 : x 40.16 78.70 : 79.01 :: 38.70 : x 38.85

Therefore I set temp. cors. at 80.31 chs. along this line, commencing at the S. bdy. of the Tp.

September 30, 1911

September 21: At 7h. 00m. a.m., l.m.t., I set off 31° 37½' N. on the lat. arc; l° 02½ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 6, 7 and 12 on the E. bdy. of the Tp.

Thence I run
West on a random line finding no cors. until at
Intersect W. bdy. of Tp. 296 lks. N. of the cor. of secs

482.03

September 31: At the cor. of secs. 3, 4, 9 and 10 I set off 0° 56' N./on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 37½' N. 1, 6, 7 and 12

September 31, 1911.

Subdivision of Tr. Sl S. Rg.

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Chains!

September 27: I commence at the cor. of secs. 1, 6, 7 and 13 on the E. bdy. of the Tp.
Thence I run

S. 89° 39' W. setting temp, cors. at proportional dista

ances on line. The distance between cors. was derived as follows:

Bet. secs. 3 & 10 479.87:483.03::80.05:x or 80.41 chs. Bet. secs. 3 & 10 479.87:483.03::80.00:x . 80.36 chs. Bet. secs. 3 & 10 479.87:483.03::79.97:x . 80.33 chs. Bet. secs. 4 & 9 479.87:483.03::80.10:x . 80.46 chs.

Bet. secs. 4 & 9 479.87:482.03::80.10:x 80.46 chs. Bet. secs. 5 & 8 479.87:482.03::79.85:x 80.21 chs. Bet. secs. 6 & 7 479.87:482.03::79.90:x 80.26 chs. The position for the fisec. cor. bet. secs. 6 and 7 is derived as follows:
79.90: 80.26::40.00: x or 40.18

79.00 : 80.26::39.90 : x - 40.08

Therefore I set temp. cors. at the proper distances along this line commencing at the E. bdy. of the Tp.

Sertember 27, 1911

September 23: At 7h. COm. a.m., l.m.t., I set off 31c 37'. N. on the lat. arc; Of 39' N. on the decl. arc; and determine a meridian with the soalr at the cor. of secs. 7, 12, 13 and 18 on the E. bdy. of the Tp.

Thence I run

483.11

West on a random line finding no cors. until at Intersect W. bdy. of Tp. 319 lks. N. of the cor. of secs. 7, 13, 13 and 18. September 33: At the cor. of secs. 9, 10, 15 and 16, I set off 0, 332 N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 37' N.

September 22, 1911.

September 38: I commence at the cor. of secs. 7, 12, 13 and 18 on the E. bdy. of the Tp.

Thence I run

S 89° 45' W. setting terp. cors. at proportional distances on line

The distances between cors. was derived as follows: Bet. secs. 13 & 13 480.38:483.11::80.10:X or 80.57 chs.

Bet. secs. 11 & 14 480.28:483.11::79.90:x . 80.37 chs. Bet. secs. 10 & 15 480.28:483.11::79.90:x . 80.37 chs. Bet. secs. 9 & 16 480.28:483.11::79.98:x . 80.45 chs. Bet. secs. 8 & 17 480.28:483.11::80.30:x . 80.77 chs. Bet. secs. 7 & 18 480.28:483.11::80.10:x . 80.57 chs. The position for the \$\frac{1}{4}\$ sec. cor. bet. secs. 7 and 18 is derived as follows:

is derived as follows:

80.10:80.57::40.00:x or 40.23.chs. 80.10:80.57::40.10:x - 40.34 chs.

Therefore I set temp. cors. at the proper distances along this line commencing at the E. bdy. of the Tr.

September 28, 1911.

September 23: At 7h. 00m. a.m., l.m.t., I set off 31° 36' N. on the lat. arc; 0° 15½' N./ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24 on the W. bdy. of the Tp.

Thence I run

Subdivision of To

6

Chains.

482.52

West on a random line finding no cors. until at Intersect W. bdy. of Tr. 148 lks. N. of the cor. of secs. 13, 18, 19 and 24 September 23: At the cor. of secs. 15, 16, 21 and 22 I set off O' 09g! N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 36' N.

September 23, 1911.

September 39: I commence at the cor. of secs. 13, 18, 19 and 24 on the E. bdy. of the Tp.

Thence I run

S. 89° 49' W. setting temp. cors. at proportional distances on line.

The distances between cors. was derived as follows: Bet. secs. 13 & 34 480.63:482.52::80.28:x or 80.60 chs.

19 is derived as follows

80.35 : 80.67 :: 40.00 : x or 40.16 80.35 : 80.67 :: 40.35 : x . 40.51

Therefore I set temp. cors. at the proper distances along this line commencing at the E. bdy. of the Tp. September 29, 1911.

September 25: At 7h. Com. a.m., l.m.t., I set off 31c 35' N. on the lat. arc; Oc 31' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 34, 35 and 30 on the E. bdy. of the Tp.

Thence I run

483.23

West on a random line finding no cors. until at Intersect W. bdy. of Tr. 198 lks. N. of the cor. of secs. 19, 24, 25 and 30. September 25: At the cor. of secs. 21, 22, 37 and 28 I set off 0, 37, 8% on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31° 55' N.

October 3: At 7h. OCm. a.m., l.m.t., I set off 31° 35' N. on the lat. arc; 3° 14½' S. on the decl. arc; and determine a merdiian with the solar at the cor. of secs. 19, 34, 35 and 30

Thence I run

S. 89° 46' W./setting temp. cors. at proportional distances on line

Bet. secs. 22 & 27 480.70:483.23::80.05:x .80.47 chs.

480.70:483.23::80.05:x 80.47 chs. Bet. secs. 21 & 28

Bet. secs. 20 & 29 Bet. secs. 19 & 30

secs. 30 & 39 \pm 480.70:483.23::80.30:x .80.73 chs. secs. 19 & 30 \pm 480.70:483.23::80.20:x \pm 80.62 chs. The position for the $\frac{1}{5}$ sec. cor. bet. secs. 19 and 30 is derived as follows:

0.30:80.68::40.00:x or 40.21 chs.

80.30: 80.63:: 40.20: x.40.41 chs.
Therefore I set temp. cors. at the proper distances along the line commencing at the E. bdy. of the Tp.

October 2, 1911

Subdivision of Tr. 21 S. Ro.

Chains.

September 26: At 7h. 00m. a.m., l.m.t., I set off 31° 34' N. on the lat. arc; 0° 542' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the Tr. Thence I run

322.71

West on a random line finding no cors. until at Fall 72 lks. N. of the old cor. of secs. 28, 29, 32 and

Thence I run west from old cor. finding no cors. until at

160.95

Intersect W. bdy. of Tp. 3 lks. N. of the cor. of secs. 35, 30, 35 and 36 September 36: At the cor. of secs. 37, 28, 33 and 34 I set off 101 N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31, 34, N.

September 26, 1911.

October 3: At 7h. 00m. a.m., l.m.t., I set off 31° 34' N. on the lat. arc; 3° 37½' S. Von the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 30, 31 and 36

Thence I run

S. 89° 52' W. setting temp. cors. at proportional distonces on line to the old cor. of secs. 38, 39, 32 and Th

Thence I run

S. 89° 59' W. setting temp cor. of secs. 39, 30, 31 and 32 at proportional distance on line.

The distances between cors. was derived as follows: Bet. secs. 25 and 36 320.53:322.71::80.10:x or 80.645 chs. Bet. secs. 26 and 35 320.53:322.71::80.10:x .80.645 chs. Bet. secs. 27 and 34 320.53:322.71::80.25:x .80.795chs. Bet. secs. 38 and 33 320.53:322.71::80.08:x - 80.635 chs. Bet. secs. 39 and 33 160.60:160.95::80.20:x - 80.275 cho. Bet. secs. 30 and 31 160.60:160.95::80.40:x - 80.575 chs. The rosition of the t sec. cor., bet. secs. 30 and 31

is derived as follows

80.40: 80.58 ::40.00 : X 40.09 chs. 80.40 : 80.58 :: 40.40 : x 40.49 chs.

Therefore I set temp. cors. at the proper distances along this line commencing at the E. bdy. of the Tp. October 3: At the cor. of secs. 37, 38, 33 and 34 I set off 3, 442 S. on the decl. arc; and observe the sum on the meridian at noon; the resulting lat. is 31° 34' N.

From the temp. corners. set on the E. and W. lines I ran N. or S. and from the temp. cors. on the N. and S. lines I ran E. or W. and at the intersection of the two lines set the true point for the cors of the secs.

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8.
                 ubdivision of Tp. 21 S. Rg. 26 E.
Chains.
            October 4; At 7h.00m. a.m. l.m, t. I set off 31 33\frac{1}{2} N.
            on the lat. arc; 400%'s on the decl. arc and determentation with the solar at the cor. of secs. 1,2,35 and
            36 on the S. bdy. of Tp. 21 S. Rg. 26 F.
                    Thence I run
            N.0 05'E. bet. secs. 35 and 36.
            Over level land.
            Set an iron post 3 ft. long, 1 in.diam., 26 ins. in the
40.31를
            ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S35 in \mathbb{W}. and S36 in \mathbb{E}. half; dig pits 18 \times 18 \times 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
            base, lift. high, W. of cor.
            The point for cor. of secs. 25, 26, 35 and 36, as estab-
80.63
            lished by proportional measurement
            Set an irom post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor, of secs. 25, 26, 35 and 36, marked
            on brass cap
            T21SR26E in N. half;
            S26 in N.W.
            S25 in N.E.
            S36 in S.E. and
            S35 in S.W. quadrant; dig pits 18 \times 18 \times 12 ins. in each
            sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base
            2 ft. high, W. of cor.
Land, level.
Soil, sandy loam over 2 ft. deep; dry; medium texture;
            1st rate;
            No timber.
            No undergrowth.
            S.89 51'E. bet. secs. 25 and 36.
            Over level land.
40.32z
            Set an iron post 3 ft. long, 1 in. diam., 26 ins. ih the
            ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S25 in N. and S26 in S. half; dig pits 18 x 18 x 12 ins. F. and W. of cor. 3 ft.dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N. of cor.
            The poissof secs: 25, 30, 31, and 36, secs.
80.65
            Land, levely produced to the soll, sandy loam over 2 ftv, deeppsdry; medium texture
            lst rate.
            No timber.
            Nolundergrowth. Heli;
            N.O 09'W. bet. secs. 25 and 26
            Over level länd.
40.31\frac{1}{2}
            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 \frac{1}{4}S26 in W.
            and S25 in \hat{E}. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and rapse a mound of earth 3\frac{1}{2} ft.
            base, l_{\frac{1}{2}} ft. high, W. of cor.
            The point for cor. of secs. 23, 24, 25 and 26, as es-
80.63:
            tablished by proportional measurement.
            Set an iron post 3 ft. long, 2 ins. giam., 24 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked
            on brass cap
            T21SR26E in N. half;
            S23 in N.W.
            S24 in N.E.
            S25 in S.E. and
            S26 in S.W. quadrant; dig pits 18 \times 18 \times 12 ins. in each
            sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base
            2 ft. high, W. of cor.
Land, level.
            Soil, sandy loam over 2 ft. deep; dry; medium texture;
            1st rate.
            No timber.
            No Jundergrowth.
                                                            4°071/2'S
            October 4; At this-cor. I set off
                                                                                 on the
            decl. arc and observe the sun on the meridian at noon;
            the resulting lat. is 31 35'N.
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71

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Subdivision of Township 21 South Range 26 East
Chains
           S.89°50'E.bet secs.24 and 25.
           Over level land.
          Cross road, bears N.and S.

Set an iron post 3 ft long, 1 in. in diam., 26 ins. in
the ground for \(\frac{1}{4}\) sec.cor., marked on brass cap \(\frac{1}{4}\) S 24
in N. and S 25 in S.half; dig pits 18x18x12 ins.E.and
  0.67
 40.28z
                W.of cor.3 ft dist., and raise a mound of earth 3\frac{1}{2} ft.
           base, 1\frac{1}{2} ft.high,N.of cor.
The cor.of secs.19,24, 25 and 30.
 80.57
            and, level.
           Soil, sandy loam over 2 ft.deep; dry, medium texture; lst rate.
           No timber. No undergrowth.
           N.0°14'W., bet. secs. 23 and 24.
           Over level
                           land.
 40.312 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
                the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4} S 23 in W. and S 24 in E. half; dig pits 18x18x12 ins. N. and
                S.of cor.3 ft.dist., and raise a mound of earth 3\frac{1}{2} ft.
                base, light. high, W.of cor.
 50.05 Cross wash 50 lks.wide, course NW. 78.00 Cross road, brs. NW.and SE. 80.63 The point for cor.of secs.13,14,23 and 24, as established
           by proportional measurement.
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 brass
                      21 S R 26 E in N.half;
                   S 14 in NW.,
S 13 in NE.,
                   S 24 in SE., and
                S:23 in SW.quadrant; dig pits 18x18x12 ins.in each sec.5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft.
                base, 2 ft.high, W.of cor.
            Land, level.
            Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                rate.
            No timber. No undergrowth.
            Note:
From the cor. of secs. 13,14,23 and 24 R.R.depot, at McNeil, bears N.56°10'W.

McNeil, bears N.56°10'W.
            NE.cor.of sec.house and store, bears N.69°20'W. SW.cor.of frame house, bears N.41°15' E.
            S.89°52'E. bet. secs.13 and 24.
            Over level land.
            Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the
  40.30
                ground for \frac{1}{4} sec.cor., marked on brass cap \frac{1}{4} S 13 in N. and S 24 in S.half; dig pits 18x18x12 ins.E.and W. of cor. 3 ft.dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N.of cor.
            The cor. of secs. 13, 18, 19 and 24.
  80.60
            Land, level.
            Soil, sandy loam over 2 ft.deep; dry, medium texture; 1st
                 rate.
            No timber. No undergrowth.
                                                                     October 4, 1911.
            October 5: At 7h.00m.a.m., l.m.t., I set off 31°36'N.on
                 the lat.arc; 4°24'S on the decl.arc, and determine a
                 meridian at the cor. of secs. 13,14,23 and 24.
            Thence I run,
            N.0004'E.bet.secs.13 and 14.
            Over level land.
            Cross road, approaches from SW. and runs N., about 1.00 chs.
  28 .85
                E.of line.
            Cross road, bears NE.and SW.
  40.31 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
                 the ground for \(\frac{1}{4}\) sec.cor., marked on brass cap, \(\frac{1}{4}\) S
                 14 in W. and S 13 in E.half; dig pits 18x18x12 ins.N.
                 and S. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2}
                 ft.base, 1\frac{1}{2} ft. high, W.of cor.
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10.

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Subdivision of To. 21 S. Rg. 26 E.
Chains.
 68.75
            Cross road, bears N.W. and S.E.
 77.50
           Cross same road, bears N.F. and S.W.
            The point for cor. of secs. 11, 12, 13 and 14, as estab-
80.631
           lished by proportional measurement.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. ih
the ground for cor. of secs. 11, 12, 13 and 14, marked
           on brass cap
           T21SR26E in N. half;
           Sll in N.W.
          Sl2 in N.E.
           Sl3 in S.E. and
           Sl4 in S.W. quadrant; dig pits 18 \times 18 \times 12 ins. in each
           sec. 5\frac{1}{2} ft. dist., and ratise a mound of earth 4 ft. base 2 ft. high, W. of cor.
           Land, level.
           Soil, sandy loam over 2 ft. deep; dry; medium texture;
           1st rate.
           No timber.
           No undergrowth.
           S.89 54'E. bet. secs. 12 and 13.
           Over level land
1.14 Cross road, bears N.E. and S.W.
40.28 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 \frac{1}{4}S12 in N. and S13 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
           of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
           base, l\frac{1}{2} ft. high, N. of cor. The cor. of secs. 7, 12, 13 and 18.
80.57
           Land, level.
           Soil, sandy loam over 2 ft. deep; dry; medium texture;
           1st rate.
           No timber.
           No undergrowth.
           N.0.05 W. bet. secs. 11 and 12
           Over level land.
12.00
           Enter dense brush
          Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
40.31
          ground for \frac{1}{4}sec. cor., marked on brass cap \frac{1}{4}S11 in W. and S12 in E. half; dig pits 18 x 18 x 12 ins. N. and S.
           of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
          base, l\frac{1}{2} ft. high, W. of cor. The point for cor. of secs. 1, 2, 11 and 12, as estab-
80.635
          lished by proportional measurement.
          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
          brass cap
          T21SR26E in N. half;
          S2 in N.W.
          Sl im N.E.
          S12 in S.E. and
          Sll in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
          sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
          Land, level.
          Soil, sandy loam over 2 ft. deep; dry; medium texture;
          1st rate.
          No timber.
          Undergrowth, mesquite and catclaw.
          October 5; At this cor. I set off 4° 30%'S
          decl. src and observe the sun on the meridian at noon;
          the resulting lat. is 31 37\frac{1}{2}'N./
          S.89 56'E. bet. secs. 1 and 12
          Over level land, through dense brush. Set an iron post 3 ft. long, l in.diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}Sl in N. and Sl2 in S. half; dig pits 18 \times 18 \times 12 ins. E. and W.
          of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
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base, $1\frac{1}{2}$ ft. high, N. of cor.

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BOOK 2334
            Subdivision of Township 21 South Range 26 East
Chains.
             Cross road, bears \mathbb{R}E and \mathbb{S}W. The cor. of secs.1,6,7 and 12.
   48.73
   80.41
             Land, level.
             Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                  rate.
                                 Undergrowth, mesquite and catsclaw.
              No timber.
  N.0°21'W., bet. secs.l and 2.
Over level land, through dense brush.
40.32 Set an iron post 3 ft.long, l in. in diam., 26 ins. in
             the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 2 in W. and S 1 in E.half; dig pits 18x18x12 ins.N.and S.of cor. 3 ft.dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W.of cor.

The closing cor.of secs. 1 and 2, previously described.
              Land, level.
              Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                   rate.
                                  Undergrowth, mesquite and catclaw.
              No timber.
                                                                      October 5, 1911.
              October 6: At 7h.00m.a.m., l.m.t., I set off 31°33½'N.on the lat.arc; 4°47'S.on the decl.arc and determine a
                   meridian with the solar at the cor.of secs.2,3,34 and 35.
                   on the S.bdy.of Tp.21 S.Rg.26 E.
              Thence I run,
              N.0003'W., bet.secs.34 and 35.
Over level land.
              Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
   40.26
                   the ground for \frac{1}{4} sec.cor., marked on brass cap \frac{1}{4} S 34 in W. and S 35 in E.half; dig pits 18x18x12 ins. I. and
                   S.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W.of cor.
               The point for cor.of secs. 26,27,34 and 35, as established
              by proportional measurement.
Set an iron post 3 ft.long, 2 ins.diam., 24 ins. in the ground for cor.of secs.26,27, 34 and 35, marked on
                   brass cap,
T 21 S R 26 E in N.half;
S 27 in NW.,
                       S 26 in NE.,
                       S 35 in SE., and
                       S 34 in SW. quadrant; dig pits 18x18x12 ins.in each
                   sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W.of cor.
               Land, level.
               Soil, sandy loam over 2 ft.deep; dry, medium texture, 1st
                    rate.
                                   No undergrowth.
               No timber.
               N.89°53'E.bet. secs.26 and 35.
               Over level land.
              Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
    40.32
               the ground for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 26 in N. and S 35 in S.half; dig pits 18x18x12 ins.E.and W.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W.of cor. Cross road, bears NNW.and SSE.
    62.54
               Telegraph line, bears NNW. and SSE.
    62.96
               El Paso and Southwestern R.R., bears NEW and SSE. The cor.of secs.25,26, 35 and 36.
    63.54
    80.64
               Land, level.
               Soil, sandy loam over 2 ft. deep; dry, medium texture;
                    1st rate.
               No timber. No undergrowth. October 6: At this cor. set off 4°54'S.on the decl.
                    arc; and observe the sun on the meridian at noon; the
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resulting lat.is 31°34'N./

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Chains.
           N.O Ol'W. bet. secs. 26 and 27.
           Over level land.
           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 \frac{1}{4}S27 in W.
 40.26
           and S26 in E. half; dig pits 18 x 18 x 12 ins. N. and S.
           of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. nigh, W. of cor.
            The point for cor. of secs. 22, 23, 26 and 27, as estab-
80.52
            lished by proportional measurement.
           Set an iron post 3 ft. long, 2 ins. diam.,
                                                                      24 ins. in
            ground for cor. of secs. 22, 23, 26 and 27, marked on
           brass cap
           T21SR26E in N. half;
           $22 in N.W.
           $23 in N.E.
           S26 in S.E. and
           S27 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
           sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Eand, level.

Soil, sandy loam over 2 ft. deep; dry; medium texture;
           1st rate.
           No timber.
           No undergrowth.
           N.89 44'E. bet. secs. 23 and 26.
           Over level land.
           Set an iron post 3 ft. long, l in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S23 in N. and S26 in S. half; dig pits 18 x18 x 12 ins.. Fand W.
 40.18분
           of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
           base, l\frac{1}{2} ft. high, N. of cor.
 58.17
           Telegraph line, bears NNW.and SSE.
           Cross road, bears NNW.and SSE.. El Paso and Southwestern R.R., bears NNW.and SSE..
 58.42
 59.02
80.37
           The cor. of secs. 23, 24, 25 and 26.
           Land, level.
           Soil, sandy loam over 2 ft. deep; dry; medium texture;
           let rate.
           No timber.
           No undergrowth.
                                                                October 6, 1911.
           October 7; At 7h.00m. a.m. l.m.t. I set off 31 35'N. on
            the lat. arc; 5''/0'S v on the decl. arc and deter-
           mine asmeridian with the solar at the cor. of secs. 22,
           23, 26 and 27
                  Thence I ruh
           N.O 22'W. bet. secs. 22 and 23.
           Over level land
 40.26
           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 \frac{1}{4}S22 in W. and S23 in T. half; d.g pits 18 \times 18 \times 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W. of cor. Enter dense brush.
 57.52
           The point for cor. of secs. 14, 15, 22 and 23, as estab-
80.52
           lished by proportional measurement.
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
           T21SR26E in N. half;
           S15 in N.W.
           S14 in N.E.
           S23 in S.E. and
           S22 in S.W. quadrant; dig pits 18 x18 x 12 ins. in each
           sec. 5\frac{1}{2} ft. dist., and raise a mound a earth 4 ft. base 2 ft. high, W. of cor. Land, level.
           Soil, sandy loam over 2 ft. deep; dry; medium texture;
           1st rate.
           No timber. Undergrowth, mesquite and catclaw,
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15

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Subdivision of Township 21 South
                                                                    Range 26
Chains.
           N.89 46 'E.bet.secs.14 and 23.
Over level land, through dense brush.

40.15½ Set an iron post 3 ft.long 1 in. in diam., 26 ims. in the ground for ¼ sec.cor., marked on brass cap ¼ S 14 in N.and S 23 in S.half; dig pits 18x18x12 ins.E.and W. of cor. 3 ft.dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor.

53.31 Cross road, bears NNW.and SSE.

54.07 Telegraph line, bears NNW.and SSE.
54.07
           Telegraph line, bears NNW and SSE.
54.75
           El Paso and Southwestern R.R. bears NNW.and SSE.
           Cross road, bears NW.and SE. Enter open country.
67.81
           The cor. of secs. 13,14,23 and 24.
80.31
           Land, level.
           Soil, sandy loamsover 2 ft. deep; dry, medium texture;
                1st rate.
           No timber.
           Undergrowth, mesquite and catclaw.
                                        -
           October 7:
                              At the cor. of secs. 14,15,22 and 23, I set
                off 5°17'S on the declearc, and observe the sun on
                the meridian at noon; the resulting latis 31°36'N.
           Thence I run,
           N.0005'E. bet. secs 14 and 15.
Over level land, through dense brush:
           Cross road, bears E.and W.
 8.99
40.26
           Set an iron post 3 ft. long, 1 in. in diam., 26 in. in
          the ground for \( \frac{1}{4} \) sec.cor., marked on brass cap \( \frac{1}{4} \) S 15 in W. and S 14 in E.half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3\( \frac{1}{2} \) ft. base, \( 1\frac{1}{2} \) ft. high, W. of cor.

The point for cor. of secs. 10,11,14 and 15, as establish.
80.52
                ed by proportional measurement.
           Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
                the ground for cor. of secs. 10,11,14 and 15, marked
                on brass cap,
                   T 21 S R 26 E in N.half;
S 10 in NW.,
                   S 11 in NE.,
                   S 14 in SE., and
                S 15 in SW.quadraht; dig pits 18x18x12 ins. in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft.base,
                2 ft . high, W.of cor.
           Land, level.
           Soil, sandy loam over 2 ft. deep; dry, medium texture; 1st
                rate.
           No timber. Undergrowth, mesquite and catclaw.
           N.89^{\circ}43 E.bet.secs.ll and 14.
Over level land, through dense brush.

40.18½ Set an iron post 3 ft. long, l in. in diam., 26 ins. in the ground for ½ sec.cor., marked on brass cap ½ S ll in N. and S 14 in S.half; dig pits 18x18x12 ins.

E.and W.of cor. 3 ft.dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N.of cor.

49.30 Telegraph line, bears NNW.and SSE.

49.65 Cross road. brs. NNW.and SSE.
           Cross road, brs. NNW and SSE.
49.65
           El Paso and Southwestern R.R., bears NNW.and SSE.
52.00
           Enter open country.
The cor. of secs.11,12,13 and 14.
From this cor. R.R. depot at McNeil's bears S.23°56'W.,
54.00
80.37
           NE.cor.of sec. house and store, bears S.20043'W.
           SW.cor.of frame house, bears S.2°05'E.
           Land, level.
           Soil, sandy loam over 2 ft deep; dry, medium texture; 1st
                rate.
           No timber: Undergrowth, mesquite and catclaw.
                                                                     October 7, 1911.
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		Subdivision of To. 21 S. Rg. 26 E. V 14.
	Chains	October 9; At 7h.00m. a.m. 1.m.t. I set off 31 37'N. on
		the lat. arc; 5°56'S. \(\sigma\) on the decl. arc and deter-
		mine a meridian with the solar at the cor. of secs. 10,
		11, 14 and 15.
		Thence I run N.O O5'W. bet. secs. 10 and 11.
		Over level land, through dense brush.
	40.26	Set an iton post 3 ft. long, 1 in. diam., 26 ins. in the
		ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S10 in W.
	,	and Sl1 in E. half; dig pits $18 \times 18 \times 12$ ins. N. aand S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.
		base, $1\frac{1}{2}$ ft. high, W. of cor.
	80.52	
		lished by proportional measurement.
		Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked on
		brass cap
		T21SR26E in N. half;
		S3 in N.W.
١		S2 in N.F.
		Sll in S.E. and SlO in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
		sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base
Ì		2 ft. high, W. of cor.
		Land, level.
	•	Soil, sandy loam over 2 ft. deep; dry; medium texture; lst rate.
		No timber.
		Undergrowth, mesquite and catclaw.
		100 app are as and not
		N.89.42'E. bet. secs. 2 and 11. Over level labd, through dense brush
	440.18	
	40110	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 $\frac{1}{4}$ S2 in N.
		and Sll in S. half; dig pits 18 x 18 x 12 ins. T. and Wi
		of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.
	44.64	base, la ft. high, N. of cor. Cross road, bears NNW.and SSE
	45.36	
	46.01	
	80.36	The cor. of secs. 1, 2, 11 and 12. Land, level.
		Soil, sandy loam over 2 ft. deep; dry; medium texture;
		1st rate.
		No timber.
	V	Undergrowth, mesquite and catclaw.
,		October 9; At the cor. of secs. 2, 3, 10 and 11 I set
		off 6.02%'S fon the decl. are observee then sun on the
		meridiantatineon; the resulting lat. is 31 37½'N.
		Thence I run N.0 20'W. bet. secs. 2 and 3.
-		Over level land, through dense brush.
	40.26	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 \(\frac{1}{4}\)S3 in W.
		and S2 in E. half; dig pits 18 x18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.
		base, $1\frac{1}{2}$ ft. high, W. of cor.
	74.64	Cross road, bears E. and W.
	76.69	The closing cor. of secs. 2 and 3, previously described.
		Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture;
		lst rate.
		No timber.
		Undergrowth, mesquite.
		October 9, 1911
		October 10; At 7h.oom. a.m. l.m.t. I set off 31 $33\frac{1}{2}$ 'N.
		on the lat. arc; 6°/8'5 on the decl. arc and deter-
		mine a meridian with the solar at the cor. of secs. 3,4,33
		and 34 on the S. bdy. of Tp. 21 S. Rg. 26 F.

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Subdivision of Township 21 South. Range 26 East.
Chains.
               N.0°14' W., bet. secs. 33 and 34. Over level land.
              Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., marked on brass cap \( \frac{1}{4} \) S 33 in W. and S 34 in E.half; dig pits 18x18x12 ins.N. and S.of cor. 3 ft. dist., and raise a mound of earth \( 3\frac{1}{2} \) ft. base, \( 1\frac{1}{2} \) ft. high, W.of cor.

Enter dense brush.
   40.19
   70.00
   80.38
               The point for cor. of secs. 27,28,33 and 34, as established
                by proportional measurement.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor.of secs.27,28,33 and 34, marked on brass
                     cap,
T 21 S R 26 E in N.half;
                         S 27 in NE.,
                         S 34 in SE., and
                         S 33 in SW. quadrant; dig pits 18x18x12 ins. in
                     each \sec .5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
               Land, level.
               Soil, sandy loam, over 2 ft. deep; dry, medium texture;
               lst rate.
No timber. Undergrowth, mesquite.
From this cor. an adobe house bears N.6°26'W.
                Abel Waisanen's frame house, bears N.25° 07' E.
   N.89°43'E. bet. secs.27 and 34.
Over level land, through dense brush.
40.392 Set an iron post 3 ft.long, 1 in. in diam., 26 ins in
                     the ground for \frac{1}{4} sec.cor., marked on brass cap \frac{1}{4} S 27 in N. and S 34 in 3.half; dig pits 18x18x12 ins.E.and
                     In N. and S 34 in S.half; dig pits 18x18x12 ins.E.and W.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.base, 1\frac{1}{2} ft. high, N.of cor.
   80.79
              The cor. of secs. 26, 27, 34 and 35.
               Land, level.
                Soil, sandy loam over 2 ft. deep; dry, medium texture;
                     1st rate.
               No timber. Undergrowth, mesquite.
               \mathbb{N}.0^{\circ}15!\mathbb{E}., bet. secs.27 and 28.
               Over level land, through dense brush.

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 $\frac{1}{4}$ S 28 in W. and S 27 in E.half; dig pits $18x18x12$ ins.N.and S.of cor. 3 ft. dist., and raise a mound of earth $\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W.of cor.

From this cor. an adobe house, bears $3.25°20'W. Abel Waisanen's frame house, bears $3.46°15'E. Windmill bears N.13°40'W.
   40.19
               Windmill, bears N.13°40'W.
                House bears N.34° 10'E.
                The point for cor.of secs.21,22,27 and 28, as established
   80.38
                by proportional measurement. Set an iron post 3 ft.lomg, 2 ins. in diam., 24 ins. in
                     the ground for cor. of secs. 21, 22, 27 and 28, marked on
                     brass cap,
T 21 S R 26 E in N.half;
                         S 21 in NW.,
                         S 22 in NE.,
                     S 27 in SE., and S 28 in SW quadrant; dig pits 18x18x12 ins.in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft.
                     base, 2 ft.high, W.of cor.
                From this cor. windmill, bears S.53° 52' W.
                House bears S.62° 40'E.
               Land, level.
                Soil, sandy loam over 2 ft.deep; medium texture; lst rate.
               No timber.
               Undergrowth, mesquite.
```

		£03 4
		Subdivision of Tp. 21 S. Rg. 26 E. 16.
	Chains.	
		October 10; At the cor. of secs. 21, 22, 27 and 28, I
	1	set off 6° 25/2'5/ on the decl. arc and observe the sun
		on the meridian at noon; the resulting lat. is 31 35'N. Themce I run
		N.89 40'E. bet. secs. 22 and 27.
		Overclevel land, through dense brush.
	35.00	Enter open country.
	40.23½	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
	40.232	ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}S22$ in N.
		and S27 in S. half; dig pits 18 x18 x 12 ins. E. and W. of
		cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base
		$1\frac{1}{2}$ ft. high, N. of cor.
	80.47	The cor. of secs. 22, 23, 26 and 27.
	0301.	Land, level.
	•	Soil, sandy loam over 2 ft. deep; dry; medium texture;
		1st rate.
		No timber.
		Undergrowth, mesquite.
		400 day day day on the 60 on the 60 day day day day day
		N.O 11'W. bet. secs. 21 and 22.
		Over level land, through dense brush.
	40.19	Set an iron post 3 ft. long 1 in. diam., 26 ins. inathe
		ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S21 in Ψ .
		and S22 in E. half; dig pits 18 x 18 x 12 ins. N. amd S.
		of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.
		base, $l^{\frac{1}{2}}$ ft. high, W. of cor.
	79.00	Cross road, bears E. and W.
	80.38	The point for cor. of secs. 25, 16, 21 and 22, as estab-
		lished by proportional measurement.
		Set an iron post 3 ft. lnng, 2 ins. diam., 24 ins. in the
		ground for cor. of secs. 15, 16, 21 and 22, marked on
		brass cap
		T21SR26F in N. half;
		S16 in N.W. S15 in N.E.
		S22 in S.E. and
		S21 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
		sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base
		2 ft. high. W. of cor.
		Land, level.
		Soil, sandy loam over 2 ft. deep; dry; medium texture;
		1st rate.
		No timber.
		Undergrowth, mesquite.
		October 10, 1911.
		400 MG MG MG MG MG MG AT AT AT MG
		October 11; At 7h.00m. a.m. 1.m.t. I set off 31 36'N. on
		the lat. arc; 6° 412'5/on the decl. arc and determine
,	*	a meridian with the solar at the cor. of secs. 15, 16,
		21 and 22.
		Thence I run
		N.89 37'E. bet secs. 15 and 22.
		Over level land, through dense brush.
	40013	Set an iron post 3 ft. long, 1 in. dism., 26 ins. in the
	a and a	ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ Sl5 in N.
		and S22 in S. half; dig pits 18 x 18 x 12 ins. F. and W.
		of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.
	44 07	base, la ft. high, N. of cor.
	44.73 80. 26	Cross road, bears N.E. and S.W, The cor. of secs. 14, 15, 22 and 23.
	80.20	Land, level.
		Soil, sandy loam over 2 ft. deep; dry; medium texture;
		1st rate.
		No timber.
		Undergrowth, mesquite.
į		N.O.10'R. bet. secs. 15 and 16.
		Over level land, through dense brush
	0.25	Cross road, bears N.E. and S.W.
į	40.19	Set an iron post 3 ft. long, 1 in. (iam., 26 ins. in the
		ground for 4 sec. cor., marked on brass cap 4816 in W.
		and S15 in E. half; dig pits 18 x 18 x 12 ins. N. and S.
, 1	5 475 THEORY (0000044, 878	

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BOOK 2334
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sion of Township 21 South, Range 26 East
Chains.
          of cor.3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W.of cor.

Cross road, bears NE. and SW.

The point for cor.of secs.9,10,15 and 16, as established
76.65
80.38
               by proportional measurement.
           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,
                   T 21 S R 26 E in N.half;
                   3 9 in NW.,
                   S 10 in NE.,
                  S 15 in SE., and
S 16 in SW. quadrant; dig pits 18x18x12 ins. in
                each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
           From this cor. an adobe house, bears S.34°38'E.
           Land, level.
           Soil, sandy loam over 2 ft .deep; dry, medium texture; lst
                rate.
           No timber. Undergrowth, mesquite. October 11: At this cor. I set off 6°48½'S.on the decl.
           No timber.
                arc, and observe the sun on the meridian at noon; the
                resulting lat.is 31° 37'N.
           N.89°34'E., bet. secs.10 and 15.
Over level land, through dense brush.
0.35 Cross road, bears N.and S.
40.18 Set an iron post 3 ft. long, l in in diam., 26 ins. in
           the ground for \frac{1}{4} sec.cor., marked on brass cap \frac{1}{4} S 10 in N. and S 15 in S.half; dig pits 18x18x12 ins. E.and W.of cor. 3 ft.dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N.of cor. The cor.of secs. 10,11,14 and 15.
80.37
           Land, level.
           Soil, sandy loam over 2 ft. deep; dry, medium texture; lst
                rate.
           No timber.
                                Undergrowth, mesquite.
           N.0019'W., bet. secs. 9 and 10.

Over lewel land, through dense brush.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
40.19
                the ground for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 9 in W. and S 10 in E.half; dig pits 18x18x12 ins.N.and
S.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.base, 1\frac{1}{2} ft.high, W.of cor.

80.38 The point for cor.of secs. 3,4,9 and 10, as established
                by proportional measurement.
            Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
                 the ground for cor. of secs. 3, 4, 9 and 10, marked on
                brass cap,
T 21 S R 26 E in N.half;
                    S 4 in NW.,
                   S 3 in NE.,
S 10 in SE., and
                S 9 in SW. quadrant; dig pits 18x18x12 ins.in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft.base,
                2 ft. high, W.of cor.
            From this cor. an adobe house bears S.7024'E.
            Land, level.
            Soil, sandy loam over 2 ft. deep; dry, medium texture;
            lst rate.
No timber. Undergrowth, mesquite.
                                                                    October 11, 1911.
            October 9:
            N.89°20'E., bet. secs.3 and 10.
Over level land, through dense brush.
           Cross road, brs.N.and S.
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40.16 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the

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Subdivision of Township 21 South, Range 26 East.
Chains.
                  ground for \frac{1}{4} sec.cor., marked on brass cap \frac{1}{4} S 3 in N and S 10 in S.half; dig pits 18x18x12 ins.E.and W.of
                  cor.3 ft.dist., and raise a mound of earth 3\frac{1}{2} ft.base,
                  1 ft. high, N. of cor.
 80.33
             The cor. of secs. 2, 3, 10 and 11.
            Land, level.
            Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                  rate.
            No timber. Undergrowth, mesquite.
            N.0°05'W., bet. secs.3 and 4.
Over level land, through dense brush.
            Cross road, bears NE.and SW.
  1.38
            Set an iron post 3 ft. long, l in.in diam., 26 ins. in the
 40.19
                  ground, for \frac{1}{4} sec.cor., marked on brass cap \frac{1}{4} S 4 in W. and S 3 in E.half; dig pits 18x18x12 ins. N. and S. of
                  cor.3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W. of cor.
            Cross road, brs. NW.and SE. Cross road, brs. E.and W. The closing cor.of secs.3 and 4, previously described.
 49.15
 75.82
 77.42
             Land, level.
             Soil, sandy loam over 2 ft. deep; dry, medium texture; lst
                  rate.
                                 Undergrowth, mesquite.
             No timber.
                                                                        October 9, 1911.
                                                               John A. Hessi
&. S. Transitman;
            October 7: At 7h.00m.a.m., l.m.t., I set off 31°33½'N.on the lat.arc; 5°10'S.on the decl.arc, and determine a meridian with the solar at the cor.of secs.4,5,32 & 33,
                  on the S.bdy.of Tp.21 S., Rg.26 E.
             Thence I run,
            N.0008'W., bet. secs. 32 and 33.

Over level land, through dense brush.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 39.94
            the ground for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 32 in W. and S 33 in E.half; dig pits 18x18x12 ins.N. and S.of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft $\frac{1}{2}$ base, $1\frac{1}{2}$ ft. high, W.of cor.

The old cor.of secs.28,29,32 and 33. I destroy all traces of old cor. and resetablish it in the same
 79.88
                  traces of old cor., and reestablish it in the same
                  place as follows:
            Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 28,29,32 and 33, marked
                  on brass cap,
T 21 S R 26 E in N.half;
S 29 in NW.,
                     S 28 in NE.,
                  S 33 in SE., and S 32 in SW. quadrant; dig pits 18x18x12 ins.in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft.base,
                  2 ft.high, W.of cor.
             From this cor .William Caldwell's adobe house bears 5.40°
                  51'E.
             F.J.Randall's frame house bears S.9°48'W.
             J.J.Sullivan's frame house bears N.45°15'W.
            Land, level.
            Soil sandy loam over 2 ft.deep; dry, medium texture; lst rate.

No timber. Undergrowth, mesquite.

Note: William Caldwell's adobe house brs.N.14°52'E.
             F.I.Randall's frame house brs.N.15°39'W.
             J.J.Sullivan's frame house brs.N.6°06'W.
             N.89^{\circ}44 ^{\dagger}E., bet.secs.28 and 33.
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Over level land, through dense brush.

40.31\frac{1}{2} Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for \frac{1}{4} sec.cor.mkd.on brass cap \frac{1}{4} S 28 in N.

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Subdivision of To. 21 S. Rg. 26 E.
Chains.
                   and S33 in S. half; dig pits 18 \times 18 \times 12 ins. \mathbb{E}. and \mathbb{W}.
                   of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
                  base, l\frac{1}{2} ft. high, N. of cor. cross road, bears N. and S. The cor. of secs. 27, 28, 33 and 34.
  79.95
  80.63
                  Land, level.
                   Soil, sandy loam over 2 ft. deep; dry; medium texture.
                   1st rate.
                   No timber.
                   Undergrowth, mesquite.
                   October 7; At the cor. of secs. 28, 29, 32 and 33 I set
                   off 5^{\circ} /7'5 _{\vee} on the decl. arc and observe the sun on
                   the meridian at noon; the resulting lat. is 31 34'N Thence I run
                   N.O 26'E. bet. secs. 28 and 29
  Over level land, through dense brush.

40.15\frac{1}{2} Set an iron post 3 ft. long, l in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S29 in W. and S28 in E. half; dig pits 18 x 18 x 12 ins. N. and S.
                   of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W. of cor.
                   The point for cor. of secs. 20, 21, 28 and 29 as estab-
  80.31
                   lished by proportional measurement.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
                   ground for cor. of secs. 20, 21, 28 and 29, marked on
                   brass cap
                   T21SR26E in N. half;
                   $20 in N.W.
                   S21 in N.E.
                   $28 in S.E. and
                   S29 in S,W. quadrant; dig pits 18 x 18 x 12 ins. in each
                   sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
                   Land, level.
                   Soil, sandy loam over 2 ft. deep; dry; medium texture;
                   1st rate.
                   No timber.
                   Undergrowth, mesquite.
                                                     which is not as the second of 
                                                                                                            October 7, 1911,
                                                        ن لَهُ وَيُرْ مِدَ هَدُونِهِ هَوْ مِنْ مِدْ فِي أَمِدُ مِنْ فِي فِي مِنْ فِي هُو هَا هِوْ . . .
                   October 9: At 7h. 00ma a.m. l.m. two 1 set off 31 35 N. on the laterarc; 55 567 So on the deck. arc and determine
                    a meridian with the solar at the corse of secs. 20, 21.
                    28 and 29
                         - oThence: I runt., blo
  N.89 39 Er bet, secs. 21 and 28.
Over level, land; through dense brush.
40.23 Set anciron post 3 ft. long, 1 in. diam., 26 ins. in the
                   ground forly sec. cor., marked on brass cap $521 in N. and $28 in $1 half; dig pits $187 x 187 x 12 ins. Extand; W.
                    \mathfrak{D}f corses ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
                   base, light. high, N. of cor. Cross road, bearquNicand S. The cor. of secs. 21, 22, 27-and 28.
  79.15
                   Land, level.
                    Soil, sandy loam over 2 ft. deep; dry; medium texture;
                    1st rate.
                   No timber.
                   Undergrowth, mesquite.
                   N.1 08'W. bet. secs. 20 and 21
                    Over level land, through dense brush.
                   The old \frac{1}{4} sec. cor. I destroy all traces of the old cor.
                    and re-establish it in the same place as follows;
                    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 \frac{1}{4}S20 in W. and S21 in E. half; dig pits 18 x18 x 12 ins. N. and S.
                    of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
                    base, 1\frac{1}{2} ft. high, \dot{W}. of cor.
                                Thence N.O 43'H. from \frac{1}{4} sec. cor.
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Chains.
 80.41
           The point for cor. of secs. 16, 17, 20 and 21 as estab-
           lished by proportional measurement.
           Set an iron post 3 ft. long, 2 ins. diam., 26 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked
           on brass cap
           T21SR26E in N. half;
           $17 in N.W.
           S16 in N.E.
S21 in S.E. and
           $20 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
           sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base
           2 ft. high, W. of cor.
           Land, level.
           Soil, sandy loam over 2 ft. deep; dry; medium texture.
           1st rate,
           No timber.
           Undergrowth, mesquite.
                                                          6° 021/2'5
           October 9; At this cor. I set off
           decl. arc and observe the sun on the meridian at noon;
           the resulting lat. is 31 36'N.
           N.89 39'E. bet. secs. 16 and 21
           Over level land, through dense brush.
Set an iron post 3 ft. long, 1 ih. diam., 26 ins. in the
 40.23분
           ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S16 in N.
           and S21 in S. half; dig pits 18 x 18 x 12 ins. H. and W.
           of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
           base, l\frac{1}{2} ft. high, N. of cor. Cross road, bears N.W. and S.E. Cross road, bears N. and S. The cor. of secs. 15, 16, 21 and 22.
 79.04
 80.14
 80.47
           Land, level.
           Soil, sandy loam over 2 ft. deep; dry; medium texture;
           1st rate.
           No timber.
           Undergrowth, mesquite.
                                                            October 9, 1911.
           October 10; At 7h.00m. a.m. 1.m.t. I set off 31 36'N. You
                               6° 18'S on the decl. arc and determine
            the lat. arc;
           a meridian with the solar at the cor. of secs. 16, 17,
           20 and 21.
                  Thence I run
           N.O 20'E. bet. secs. 16 and 17.
           Over kevel land, through dense brush. 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 \frac{1}{4}S17 in W.
 40.25분
           and S16 in \hat{\mathbf{E}}. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W. of cor.
            The point for cor. of secs. 8, 9, 16 and 17 as estab-
 80.51
            lished by proportional measurement.
           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
            brass cap
            T21SR26E in N. half;
            S8 in N.W.
           S9 in N.E.
           S16 in S.F. and S17 in S.W. quadrant; dig pits 18 x18 x 12 ins. in each
            sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base
            2 ft. high, W. of cor.
          Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture;
            1st rate.
            No timber.
            Undergrowth, mesquite.
October 10; At this cor. I set off 6°251/2'5
            decl. arc and observe the sun on the meridian at noon;
            the resulting lat. is 31 37'N.
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Subdivision of Townshin
                                                                            Range 26
                                                              South
Chains.
            N.89°37'E.bet.secs.9 and 16.
Over level land, through scattering brush.

40.22½ Set an iron post 3 ft. long, l in. in diam., 26 ins. in the ground for ¼ sec.cor., marked on brass cap,¼ S 9 in N., and S.16 in S.half; dig pits 18x18x12 ins.E.and W.of cor.3 ft. dist., and raise a mound of earth 3½ ft. base, ½ ft. high, N.of cor.

40.33 Cross road, bears NW.and SE.

80.45 The cor.of secs.9,10,15 and 16.
            Land, level.
            Soil, sandy loam over 2 ft. deep; dry, medium texture; lst
                  rate.
            No timber. Undergrowth, mesquite.
                                                                             October 10, 1911.
            October 11: At 7h.00m.a.m., l.m.t., I set off 31°37'N.on the lat.arc; ,6°41'S on the decl.arc, and determine a meridian with the solar at the cor.of secs. 8,9,16
                  and 17.
             Thence I run,
             N.0°24'W. bet. secs.8 and 9.
            Over level land, through scattering brush. Cross road, brs.E.and W.
10.51
40.25 Set an iron post 3 ft. long, l in. in diam., 26 ins. in the ground for 4 sec.cor., marked on brass cap, 4 S 8 in W. and S 9 in E.half; dig pits 18x18x12 ins.N. and
                  S.of cor.3 ft.dist., and raise a mound of earth 3\frac{1}{2} ft.
                  base, la ft. high, W.of cor.
            Cross road, brs. NW.and SE. The point for cor.of secs. 4,5,8 and 9, as established by
50.01
80.51
                  proportional measurement.
             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
                  cap,
T 21 S R 26 E in N.half;
                      S 5 in NW.,
                      S 4 in NE.,
                      S 9 in SE., and
S 8 in SW. quadrant; dig pits 18x18x12 ins in each
                  sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base. 2 ft. high, W. of cor.
             Land, level.
             Soil, sandy loam over 2 ft. deep; dry. medium texture;
                  1st rate.
             No timber.
             Undergrowth, mesquite.
            N.89°36'E., bet. secs.4 and 9.

Over level land, through scattering brush.

Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., marked on brass cap \( \frac{1}{4} \) S 4 in N. and S 9 in S.half; dig pits 18x18x12 ins. E. and W. of cor.3 ft. dist., and raise a mound of earth
40.23
                   3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N.of cor.
             Cross road, bears NE. and SW. The cor. of secs. 3,4,9 and 10.
 78.59
 80.46
             Land, level.
             Soil, sandy loam over 2 ft. deep; dry, medium texture;
                   1st rate.
             No timber. Undergrowth, mesquite. October 11: At this cor.I set off 6^{\circ}48\frac{1}{2}'S.on the decl.
                   arc, and observe the sun on the meridian at noon; the
                   resulting lat. is 31°37½ N. /
             N.0003'W., bet. secs. 4 and 5.
Over level land, through scattering brush.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 40.26
                   the ground for \frac{1}{4} sec.cor., marked on brass cap \frac{1}{4} S 5 in W. and S 4 in E.half; dig pits 18x18x12 ins.N.and S.
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Subdivision of Township 21 South, Range 26 East
           October 4:
                             , At the cor. of secs. 29,30,31 and 32, I set of {f f}
                40072'S on the decl.arc, and observe the sun on the
                meridian at noon; the resulting lat.is 31°34'N.
           Thence I run,
N.0°12'E., bet. secs.29 and 30.

Over level land, through dense brush.

40.15½ Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec.cor., marked on brass cap ¼ S 30 in W. and S 29 in E.half; dig pits 18x18x12 ins.N. and S.of cor. 3 ft. dist., and raise a mound of earth
                and S.of cor. 3 ft. dist., and rai 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W.of cor.
61.26 Cross road, brs. NE.
           The point for cor. of secs. 19,20, 29 and 30, as established
80.31
           by proportional measurement.
Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for cor.of secs. 19,20, 29 and 30, marked
                on brass cap
                    T 21 S R 26 E in N.half;
                   S 19 in NW.,
S 20 in NE.,
S 29 in SE., and
                    S 30 in SW. quadrant; dig pits 18x18x12 ins. in
                each \sec .5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft.base, 2 ft. high, W. of cor.
           Land, level.
           Soil, sandy loam over 2 ft. deep; dry, medium texture;
                1st rate.
           No timber. Undergrowth, mesquite.
A 2 in. post was left at this cor. temporarily, and
           No timber.
                could not be found; therefore a 1 in. post was set, as I had no more 2 in. ones.
                                                                          October 4. 1911.
                                        -----
           October 9: S.89°44 E. bet. secs 20 and 29
           Over level land, through scattering brush.
15.17
16.72
           Cross road, bears NE and SW.
           Leave scattering brush, enter open country. Set an iron post 3 ft. long, 1 in. in diam., 26 ins.in
40.36
                the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4} S 20 in N. and S 29 in S.half; dig pits 18x18x12 ins.E.and W.of cor.3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
           base, li ft. high, N.of cor.
Cross White River, 8000 lks.wide, course S.
The cor.of secs.20,21,28 and 29.
49.00
80.72
            Land, level.
           Soil adobe, impregnated with alkali, 4th rate. No timber. Undergrowth, mesquite.
                                                                      October 9, 1911.
                              S.89°38'W., bet.secs.19 and 30.
            October 4;
            Over level land, through dense brush.
          Cross road, brs.N.and S.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{2} \) sec.cor., marked on brass cap \( \frac{1}{4} \) S

19 in N. and S 30 in S.half; dig pits 18x18x12 ins.
  0.30
40.21
           E.and W.of cor.3 ft. dist., and raise a mound of earth, 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N.of cor. The cor.of secs.19,24, 25 and 30.
80.62
            Land, level.
            Soil, sandy loam over 2 ft. deep; dry, medium texture;
                 1st rate.
            No timber. Undergrowth, mesquite.
                                                                             October 4, 1911.
            October 5: At 7h.00m.a.m., l.m.t. I set off 31°35'N.on the lat.arc; 4°24'S.on the decl.arc, and determine a
                 meridian with the solar at the cor. of secs. 19,20,29 a
                 and 30.
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Thence I run,

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BOOV 2334
Chains.
              N.O 13'E. bet. secs. 19 and 20.
             Over level land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.15분
              ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S19 in W. and S20 in E. half; dig pits 18 \times 18 \times 12 ins. N. and S.
              of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W. of cor. The point for cor. of secs. 17, 18, 19 and 20 as estab-
 80.31
              lished by proportional measurement.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in
the ground for cor. of secs. 17, 18, 19 and 20, marked
              on brass cap
             T21SR26E in N. half;
              S18 in N.W.
              S17 in N.E.
              S20 in S.E. and
              S19 in S.W. quadrant; dig pits 18 x15 x 12 ins. in each
              sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base
             2 ft. high, W. of cor.
Land, level.
Soil, sandy loam over 2 ft. deep; dry; medium texture.
              1st rate.
              No timber.
              Undergrowth, mesquite.
                                                                        October 5, 1911.
              October 10; S.89 45'E. bet. secs. 17 and 20
              Over level land, through scattering brush
             Leave brush, enter open country. 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 \frac{1}{4}S17 in N. and S20 in S. half; dig pits 18 x 18 x 12 ins. F. and W.
   5.21
  40.10분
              of cor. 3 ft. disti,, and draise a mound of earth 3\frac{1}{2} ft.
              base, l\frac{1}{2} ft. high, N. of cor. Cross White River; 500 lks. wide, course S. The cor. of secs. 16, 17, 20 and 21.
 80.21
              Land, level.
              Soil, adobe, impregnated with alkali, 4th rate.
              No timber.
              Undergrowth, mesquite.
                                                                          October 10, 1911.
                                        ---------
              October 5; S.89 36'W. bet. secs. 18 and 19.
              Over level land, through dense brush.
              Cross road, bears N. and S.
  .0445
              Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.16
              ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S18 in N. and S19 in S. half; dig pits 18 x 18 x 12 ins. F. and W. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
              base, l\frac{1}{2} ft. high, N. of cor. The cor. of secs. 13, 18, 19 and 24.
 80.67
              Land, level.
             ·Soil, sandy loam over 2 ft. deep; dry; medium texture;
              1st rate.
              No timber.
              Undergrowth, mesquite.
              October 5; Attthe cor. of secs. 17, 18, 19 and 20 I set
              off #° 30% 5 on the decl. arc and Observe the suncon the meridian at noon; the resulting lat. is 31 36'N.
              off
                      Thence I run
              N.O 06'E. bet. secs. 17 and 18.
              Over level land, through scattering brush.
              Leave brush, enter open country.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
  44115
  40.15불
              ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S18 in W. and S17 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
              base, la ft. nigh, W. of cor.
Set an iron post 3 ft. long, 2 ind. diam., 24 ins. in the
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the ground for cor. of secs. 7, 8, 17 and 18, marked on

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Subdivision of Township 21 South, Range 26 East.
Chains.
               brass cap,
T 21 S R 26 E in N.half;
                  s 7 in NW.,
                  S 8 in NE.,
                  S 17 in SE., and
S 18 in SW. quadrant; dig pits 18x18x12 ins in each
               sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, w.of cor.
           Land, level.
          Soil, adobe, impregnated with alkali, 4th rate. No timber. Undergrowth, mesquite.
                                                                  October 5, 1911.
           October 10: S.89°53'E. bet. secs.8 and 17.
           Over level land,
19.50 Cross White River Wash 80 lks.wide, course SW.
40.38 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
          the ground for \frac{1}{4} sec.cor., marked on brass cap \frac{1}{4} S 8 in N. and S 17 in S.half; dig pits 18x18x12 ins.E.and W.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.base, 1\frac{1}{2} ft. high, N.of cor.
75.24
80.77
           The cor.of secs.8,9,16 and 17.
           Land, level.
           Soil, adobe impregnated with alkali, 4th rate. No timber. Undergrowth, mesquite.
                                                                    October 10,1911.
           October 5: S.89°18'W ., bet. secs. 7 and 18.
           Over level land.
          Enter dense brush. Cross road, bears NW. and SE.
17.00
40:17
40.23
           Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
               the ground for \frac{1}{4} sec.cor., marked on brass cap, \frac{1}{4} S 7 in N. and S 18 in S.half; dig pits 18x18x12 ins.E.and W.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. high, N.of cor.
80.57
           The cor. of secs. 7, 12, 13 and 18.
           Land, level.
           Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                rate, except 17.00 chs., which is adobe impregnated
                with alkali, 4th rate.
                               i, 4th race.
Undergrowth, mesquite.
October 5, 1911.
           No timber.
           October 6: At 7h. 00m a.m., l.m.t., I set off 31°37'N.on
                the lat.arc; 4°47'S on the decl.arc, and determine a meridian with the solar at the cor.of secs.7,8,17 and
                18.
           Thence I run,
           N.0°05'E., bet. secs. 7 and 8.
Over level land.
19.31 Cross wash, 50 lks.wide, course SE. 40.152 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
                the ground for \frac{1}{4} sec.cor, marked on brass cap \frac{1}{4} S 7 in W. and S 8 in E.half; dig pits 18x18x12 ins.N. and S.of cor. 3 ft dist., and raise a mound of earth 3\frac{1}{2} ft. high, W.of cor.
           Cross wash, 30 lks.wide, course SE. Cross road, bears E.and W. The point for cor.of secs. 5, 6, 7 and 8, as established
41.91
48.81
80.31
                by proportional measurement.
           Set an iron post 3 ft. long, 2 ins. in diam., 24 ins.in
                the ground for cor.of secs.5,6,7 and 8, marked on brass
                cap,
T 21 S R 26 E in N.half;
                   S 6 in NW
```

S 5 in NE., S 8 in SE., and

J28

Subdivision of To. 21 S. Chains. S7 in S.W. quadrant; dig pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, adobe impregnated with alkali, 4th rate. No timber. No undergrowth. October 6, 1911. October 11; N.89 54'E. bet. secs. 5 and 8. Over level land. Cross road, bears N.E. and S.W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the 30.31 40.10항 ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S5 in N. and S8 in S. half; dig pits 18 x 18 x 12 ins. F. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $l_{2}^{\frac{1}{2}}$ ft. high, N. of cor. Cross White River wash 25 lks. wide, course S. 43.71 Cross road, bears N.W. and S.T. The cor. of secs. 4, 5, 8 and 9. 52.01 80.21 Land, level Soil, adobe impregnated with alkali, 4th rate. No timber No undergrowth. October 11, 1911. October 6; S.89 17'W. bet. secs. 6 and 7. Over level land. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the 40.18 ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S6 in N. and S7 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Cross road, bears N.W. and S. F. 55.63 Enter dense mesquite. 62.00 The cor. of secs. 1, 6, 7 and 12. 80.26 Land, level.
Soil, adobe impregnated with alkali, 4th rate, except 18.00 chs. which is sandy loam over 2 ft. deep; dry; medium texture, 1st rate. No timber. Undergrowth, mesquite. October 6; At the cor. of secs. 5, 6, 7 and 8 I set off #° 54'5 ✓ on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 31 $37\frac{1}{2}$ 'N. Thence I run N.O 10'W. bet. secs. 5 and 6. Over level land. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the 40.16 ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S6 in W. and S5 in F. half; dbg pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Bross road, bears N.W. and S.F. The closing cor. of secs. 5 and 6. 58.56 79.01 Land, level. Soil, adobe impregnated with alkali, 4th rate.

> No undergrowth. Alfred M. Clerry October 6, 1911

No timber.

U.S. Transitman.

JANI 24 1913

Subdivision of Tp. 31 S. Rg. 36 E.

Chains.

General Description.

This township is level and the soil generally is a rich sandy loam very fertile. Along White River, which flows through the western half of the township the soil is adobe impregnated with alkali and of no value. The El Paso and Southwestern Ry. runs through the eastern half of the township and McNeil station is located in sec. 14.

On account of the level surface of the township it was possible to see a flag on sec. cors. from the cor. run from and therefore the lines were run direct to the cor. without a random.

Affect 71. Class

John G. Hesse M.O. Transition

The courses of all lines in the township, as finally, established, were determined by direct sights with a solar transit.

John J. Hesse U. S. Transitman

		NAMES.		BOOK	2334
A list of the names of the individu	als employ	ed by	John 4.	Hesse	
, Unit					ring, and
marking the lines and corners described i		_		. /	
subdivision lines of					
showing the respective capacities in which		-			
	9.6	Lyon	D. N. Ba	tes cho	ainman
	Q. J.	Bates	M. Q. Na	Wes Ob	rimman.
C. Wolfe,	6. E.	Mills	J. F. Gar	duer Mor	indman.
					indman.
		G. (Barnes	, Axr	
	111 9	P Ray	Q11 16	,	nan.
FINIAL		F ASSIST	a. W. Hund	Flag	gman.
FINAL	, (TASSIS!	Misse	All y	1 Min
We hereby certify that we assiste	d	com i	r. Here	- 1 4·//	· Cerro
		, United St	ates Deputy Surv	'eyor , in surv	eying all
those parts or portions of the suld	wision	r times	of 9215	R. 26 6	
·		~			
		···		of the bile	and
Falt River meridian, 1	erritor	y of a	izona,	which are rep	resented
in the foregoing field notes as having been			_		
has been in all respects, to the best of o					
corner monuments established, according	g to the ins	structions fur	nished by the Ui	nited States S	Surveyor
General for Auguna		a <i>V</i>	to		
a. E hym		H 13	alV		inman.
M. L. Hates,		JAK X	farry	, Cha	inman.
1		9.6	Mille	, Mou	ndman.
H Woff	~/		urdu	, Mou	ndman.
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Subscribed and sworn to before me this	11th)			
\mathcal{O} $+1$		(Del 611	11	
day of Clother, 19 By 6. 6. Miles Left 16, 1911 0000000 SEAL 0	,		John 4!	vesse	
C3C3C3C3C3C3			11. 11. 1/2	101.01	

FINAL OATH OF UNITED STATES DEF United States Deputy Surveyor, do act received from Mank Meall solemnly swear that, in pursuance of a cont United States Surveyor General for , 191 , have well, faithfully, and truly, in my nd day of Chegust proper person\$ and in strict conformity with the instructions furnished by the United States Surveyor General for ______, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines of Solf Rever meridian, in the Verutor f of digona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL The foregoing field notes of the survey of

_____, has been correctly copied from the original notes on file in this office.

I certify that the foregoing transcript of the field notes of the above-described surveys in.....

critically examined, and the necessary corrections and explanations made, the said field notes, and the

ract No. J, dated (Lug. 7), 19/0, having been

surveys they describe, are hereby approved.