BOOK 2478

2478

FIELD NOTES

OF THE SURVEY OF THE

Township Boundaries, Group No. 17,

South Bdy. fracl. Township 21 South, Range 32 East, West boundary of Township 22 South, Range 31 East, East boundary of Township 22 South, Range 31 East, South boundary of Township 22 South, Range 31 East, South boundary fracl. Township 22 South, Range 32 East, West boundary of Township 22 South, Range 32 East, South boundary fracl. Township 22 South, Range 32 East,

West boundary of Township 23 South, Range 31 East,

East boundary of Township 23 South, Range 31 East,

South boundary of Township 24 South, Range 31 East,

East boundary fracl. Township 24 South, Range 31 East,

West boundary of fracl. Township 24 South, Range 31 East,

North boundary of fracl. Township 24 South, Range 30 East,

North boundary fracl. Township 24 South, Range 29 East,

East boundary of Township 20 South, Range 23 East,

Portion of South Boundary of Township 19 South, Range 24 East,

Portion of North boundary of Township 19 South, Range 24 East,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Jesse B. Wright,

In the capacity of U. S. Surveyor, under Special and Supplemental instructions dated October 6, 1911, November 27, 1912, and Jan. 13, 1913, issued by the United States Surveyor General to govern surveys included in Group No.17, which were approved by the Commissioner of the General Land Office, Oct. 14, 1911, Dec. 5, 1912, and Jan. 18, 1913, pursuant to authority contained in the Act of Congress, dated August 24, 1912. Survey commenced Oct. 26, Survey completed Feb. 20, 1912. 1913.

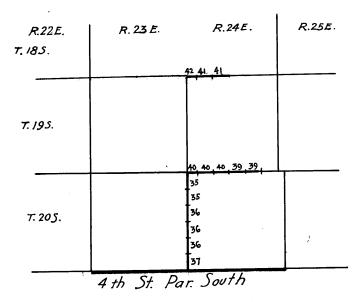
GROUP 17 INDEX-BOOK "D"

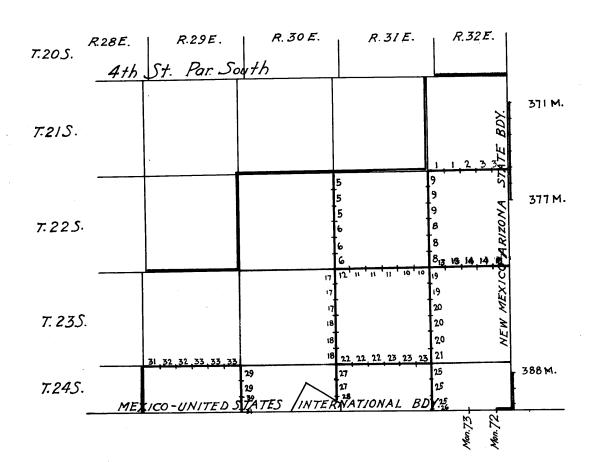
—— This Book —— Book "A" - Accepted Surveys

Book "G"

— Book"B"

BOOK 2478





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South Boundary of T. 21 S., R. 32 E.
                                                                                       BOOK 2478
Chains,
           Oct. 26, 1912.
           Knowing from tests made on a true meridian on Out. 21 &
              22, (established from observation of Polaris on night of
              Oct. 21st, and heretofore described in Book A) that my instrument
              is in correct adjustment,
              I proceed as follows :-
           At 8h a.m., l.m.t., at the cor. of Tps. 21 & 22 S., Rs. 31
              & 32 E., which is a lava stone 20x10x7 ins. above ground,
         marked and witnessed as described by the Surveyor-
General, West at 1833 03 No. 109 07 48 W.,
I set off 12°26'S. on the decl. arc, and 31°33 N. on the
              lat. arc, and determine a meridian with the solar.
          Thence I run, as per instructions, on S. bdy. of T.215-R.32 E. East, on a true line, bet. secs. 6 & 31.

Var. 12°30' E.
              Over mts. land, asc. W. slope, over loose lava stone,
              scattering cacti, and scrub oak.
  7.50
           Spur, brs. N. & S., desc. NE. slope.
          Spur, brs. N. & S., desc. NE. Slope.

Gulch, 50 lks. wide, course NW., asc. NW. slope.

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,

\( \frac{1}{2} \) S 31 in N., and

S 6 in S. half;

raise a mound of stone 2 ft.base, 1\( \frac{1}{2} \) ft.high N. of cor.

No bearings available, pits impracticable.

Ridge, brs. N. & S., desc. NE. slope.
18.10
40.00
          Ridge, brs. N. & S., desc. NE. slope.
Gulch, 150 lks. wide, course NW., asc. grad.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5,6,31 & 32, marked on brass cap, T 21 S in N.,
58.50
77.10
80.00
                              T 22 S in S.,
                              R 32 E., in W. half,
                                 31 in NW.,
                                 32 in NE.,
5 in SE., and
                              S
                                  6 in SW. quad.;
             raise a mound of stone 2 ft.base, 1 ft.high so of cor.
             No bearings available, pits impracticable.
          Land, mts.
           Soil, 3rd rate, stony, dry.
           Cacti, scrub oak, fair grass.
          on true line
East, bet. secs. 5 & 32.
Over mts. land, asc. SW. slope.
          To point on line, whence the line to the east rises
10.00
             over precipitous bluffs, over which it is impracticable
             to chain. Therefore I measure a base line to the north,
             and set flags on this base line at 10 and 20 chs.
          At this point at moons I set off 12°30' S. on the decl.
             arc, and observe the sun on the meridian.
             The resulting lat. is 31933' N.
          I send a man ahead and place a flag on line, on top of
             bluff to the East, and proceed to this point, from which, the flag on my base line at 10 chs. brs.
             N. 69.36' W., the subtended angle is therefore 20.24:;
```

distance to my point from 10 ch. pt. is Cot.20°24', 2.689x10 — 26.89 Chs. As a check to my triangulation, From my flag point, the flag left on base line at 20 chs. brs. N.53°22'W., the included angle is therefore

36.896 To my point on line, top of bluff, brs. NW. & SE. sharp ridge, brs. NW. & SE.

37•50 Desc. prec. 40.00

Set an iron post 3 ft. long, 1 in. in diam., 10 ins. in the ground, on bed-rock, in mound of stone for ‡ sec. cor., marked on brass cap,

‡ S 32 in N., and S 5 in S. half half;

raise a mound of stone 2 ft.base, lt ft.high N. of cor. No bearings available, pits impracticable.

```
Chains.
 48.00
               Drain, 10 lks. wide, course N.
              Bulch, 40 lks. wide, course NW., asc. prec.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 4,5,32 & 33, marked on
 67.00
 ·80• 00
                    brass cap, T 21 S, in N.,
                                         T 22 S, in S., and
                                         R 32 E., in W. half,
S 32 in NW.,
S 33 in NE.,
                                               4 in SE., and
                                         S
                                         S 5 in SW. quad.;
                    raise a mound of stone 2 ft.base, lt ft.high W.of cor.
                Land, mts., rough.
Soil, 3rd & 4th rate, gravelly, stony, dry.
Cacti, palonegro, scrub oak, fair grass.
                                                                               Oct. 26, 1912.
              Out. 28, 1912.
              At 8h a.m., l.m.t., at the cor. of secs. 4,5,32 & 33, above I set off 13°06½ S. on the decl. arc, and 31°33 N. on the lat. arc, and determine a meridian with the solar. Thence I run,

Eastan Toet. secs. 4 & 33.
                  Over mts. land, asc.
   4.91
              Asc. prec.
               Top of high mountain ridge, brs. N. & S., desc. grad.
 20.00
 26.00
              Desc. prec.
              Gulch, 30 lks. wide, course N., asc.

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 33 in N., and
S 4 in S. half, from which,
 35.00
40.00
                  An oak tree 12 ins. diam. bas. N. 35°E.
                                                                                          8 lks. dist.,
                                      marked ‡ S 33 B T.
                  An oak tree 14 ins.diam.brs. S.11°E. 34 lks. dist.,
                                      marked 1 S 4 B T.
              Spur, brs. N. & S., desc. grad.
 44.00
              Desc. prec.
 50.00
               Gulch, 40 lks. wide, course N., asc. prec.
 55.00
              Ridge, brs. N. & S., desc. prec.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3,4,33 & 34, marked on brass cap, T 21 S, in N.,
 65.00
 80.00
                                       S 22 S, in S., and
R 32 E., in W. half,
S 33 in NW.,
                                       S 34 in NE.,
                  S 3 in SE., and
S 4 in SW. quad.; from which,
An oak tree 14 ins.diam.brs. N.6°E. 96 lks. dist.,
Marked T 21 S R 32 E,S 34 B T.
An oak tree 12 ins.diam.brs. S.83°E.125 lks. dist.,
                  Marked T 22 S R 32 E S 3 B T.

An oak tree 14 ins.diam.brs.S.27°W. 58 lks. dist.,

marked T 22 S R 32 E S 4 B T.

An oak tree 8 ins.diam.brs.N.79°W. 86 lks. dist.,
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marked T 21 S R 32 E S 33 B T.

Land, mts., Soil, 3rd rate, stony. Scrub oak, cacti, few oak trees, fair grass.

```
Chains.
              East, bet. secs. 3 & 34.
Over mts. land, along S. slope.
                                                                                                                       BOOK
                                                                                                                                     2478
    5.00
                Desc. prec.
                Gulch, 50 lks. wide, course S., asc. prec. Ridge, brs. N. & S., desc. Gulch, 40 lks. wide, course N., asc. grad. through
 13.00
  19.00
  32.00
                scattering oak trees.
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
40.00
                    the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4} S 34 in N., and S 3 in S. half, from which,
                 S 3 in S. nall, from which An oak tree 4 ins. diam. brs. N. 43°E.

marked ‡ S 34 B T.

An oak tree 14 ins. diam. brs. S. 61°E.
                                                                                                 93 lks. dist.,
                                                                                                35 lks. dist.,
               marked ½ S 3 B T.

Thence over rough, stony S. slope.

Rough granite ledge, brs. ENE. & WSW.

Set an iron post 3 ft. long, 3 ins. in diam., 10 ins. in the ground, in mound of stone for cor. of secs.
  78.00
  80. 00
                    2,3,34 & 35, marked on brass cap,
T 21 S, in N.,
T 22 S, in S., and
R 32 E., in W. half,
S 34 in NW.,
                                          S 35 in NE.,
                  S 2 in SE., and
S 3 in SW. quad.; from which,
An oak tree 16 ins .diam.brs. N. 85°W. 95 lks. dist.,
marked T 21 S R 32 E S 34 B T.
               No other bearings available, pits impracticable.
Raise a mound of stone 2 ft.base, lift.high W. of cor.
At this cor., at noon, I set off-13 ll S. on the decl.
arc, and observe the sun on the meridian.
                    The resulting lat. is 31°33' N.
               Land, rough, broken, mts.
               Soil, 3rd rate, stony, gravelly, dry.
               Few oak trees, scrub oak, cacti, fair grass.
               east, bet. secs. 35 & 2.
               Over mts. land, along S. slope, desc. grad. Granite ledge, 40 ft. high, brs. ESE. & WNW., asc. prec. Top of ledge, desc.
 10.00
 12.00
 18.00
                Gulch, 30 lks. wide, course SSW., asc. over rough, broken
                   land.
 38.00
               Asc. prec. W. slope.
               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, \( \frac{1}{2} \) S 35 in N., and \( S 2 \) in S. half;
 40.00
               raise a mound of stone 2 ft.base, lt ft.high N.of cor. Granite cliff, 40 ft. high, brs. N. & S., asc. abrupt.
 41.00
               Top of cliff, asc. prec.
 43.00
              Top of divide, Peloncillo mountains, brs. N. & S., desc.

Leave point on line, and search for East bdy. of Arizona.

Intersect East Boundary of Arizona at a point whence the

375 mile cor., brs. North 30.60 dbs., and 376 mile cor. brs. South 49.32 chs., both

re-established by me in Book Ar, notes of
 59.00
 69.00
 69.90
               retracements of said bdy., branching in diam. 24 ins. in the ground for closing cor. of frac. Tps. 21 & 22 S., R. 32 E.
                   marked on brass cap,
                                         CC, E. of centre,
                                         N M, in E., and
                                         ARIZ,R 32 E., in W. half,
T 21 S,S 35, in NW., and
T 22 S,S 2, in SW. quad.
                   Raise a mound of stone 3 ft.base, 2 ft.high W.of cor.
                   No trees in limits.
              Land, mts., very rough, Soil, 3rd rate, stony. Oak, pinon, cedar, scrub oak, cacti, fair grass. Oct. 28, 1912.
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General Description. The South Boundary of T_{Λ}^{ac} T. 21 S., R. 32 E., as surveyed by me runs over a very rough, broken, mountainous country, drainage in general to the North and West. There is some little oak, pinon, and cedar timber near the line in places, but none of any commercial value.

There is no water on or near the line. No settlers are at present located near the line, nor any trace of any occupation of the land, which is only valuable for grazing purposes.

Frac. Trac. CBoundaries of T.2151R32E. 32 H. . as about described, the 1/6 limb dec. of Mass day. of Arizona Latitudes, Departures and Closing, Errors exitly re-established by the and beretained described.

					Latitu	des.	Depart	ureso
Line Desi	gnated.	True	bearing	Distance	N. X.	8	E.	W
					Chs.	Chs.	Chs.	Chs.
South Bou West Bou	ndary,	West	*	389. 90/				38990
***		N.OºI	5'E.V	40.22			•18 ²	
			3'E.,	40, 27			.03 1.06	
4th Std.P			9'E.;	4.10	403.52			
. 321 25 44 1		N. 89	43'E.,	40.47	•200		40.47	
			52 E.,	324.60			324 . 60	
East bdy.	Ariza		42 E.,	18.37 485.87		485.87	18.37	
Convergen	-		->:			10900	0-36	
	**		Tota	ls,				
		•		r in Lat r in Dep	• ,			389.17 0.73

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Chains.
                                                                                                BOOK
            Nov. 5, 1912
            At 8h a.m., 1.m.t., at the cor. of Tps. 21 & 22 S.,

Rs. 30 & 31 E., and herecently re-established by W.H.E. and
described, by him in Book "A"
            I set off'15°40'S. on the decl. arc, and 31°33'N. on the
                lat. arc, and determine a meridian with the solar.
            Thence I run, as per instructions, on a true line South, on range line, bet. secs. 1 & 6.
Var. 13°E.
            Over gently undulating plain, good native grass. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 40.00
                the ground for 1 sec. cor., marked on brass cap,

1 S 1 in W., and
S 6 in E. half;
            raise a mound of stone 2 ft.base, la ft.high W.of cor. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,6,7 & 12, marked o n brass cap, T 22 S, in N. half,

R 30 E S 1 in NW.,
 80.00
                                 R 31 E S 6 in NE.,
                                 S 7 in SE., and
               S 12 in SW. quad.; raise a mound of stone 2 ftbase, la ft.high W.of cor.
            Land, gently rolling, level.
Soil, 3rd rate, sandy, gravelly, loose, dry.
Sparse sage brush, cacti, good grass.
                  on a true line
            South, bet. secs.
                                         7 & 12.
               Over gently rolling land, loose lava stone.
 40.00
            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 12 in W., and

S 7 in E. half;

Raise a mound of stone 2 ft.base, l\frac{1}{2} ft.high W. of cor.
            Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7,12,13 & 18, marked on brass cap, T 22 S, in N. half,

R 30 E S 12 in NW.,
 80.00
                                 R 31 E S 7 in NE.,
                                 S 18 in SE., and
               S 13 in SW. quad.; raise a mound of stone 2 ft.base, la ft.high W.of cor.
            Land, rolling.
            Soil, 3rd rate, gravelly, stony, dry, loose.
            Sparse sage brush, cacti, good grass.
                  on a true line
            South, bet. secs. 13 & 18
               Over gently rolling land.
 40.00
            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 13 in W., and S 18 in E. half;
               raise a mound of stone 2 ft. base, la ft. high W. of cor.
            Old wire drift fence, brs. N.83°33'W. & S.83°33'E.
65.12
            Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13,18,19 & 24, marked on brass cap, T 22 S, in N. half,
.80.00
                                 R 30 E S 13 in NW.,
                                 R 31 E S 18 in NE.,
               S 19 in SE., and
S 24 in SW. quad.;
raise a mound of stone 2 ft.base, l2 ft.high W.of cor.
            Land, rolling.
                     3rd rate, gravelly, dry, loose.
            Sage brush, cacti, good grass.
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Road, brs. E. & W., Bernardino Sta. to Ranches to SE. Wash, 50 lks. wide, course SE. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ‡ sec. cor., marked on brass cap, \$ 24 in W., and \$ 19 in E. half; 31.50 40.00

raise a mound of stone 2 ft.base, la ft.high W.of cor.

75.00 80.00

Asc. grad. from cor.
Top of rise, brs. NW. & SE., desc. grad.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19,24,25 & 30, marked on brass cap, T 22 S, in N. half,
R 30 E, S 24 in NW.,
R 31 E, S 19 in NE.,

8 30 in SE., and S 25 in SW. quad.;

raise a mound of stone 2 ft.base, 1 thigh Woof cor. Land, rolling.
Soil, 3rd rate, gravelly, stony, dry.
Sage brush, cacti, fine grass.

At the above described cor., at moom, I set off 15044 'S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 31° 392' No. South, bet. secs. 25 & 30.

Over rolling land, desc. grad.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1 sec. cor., marked on brass cap, 1 S 25 in W., and S 30 in E. half;

raise a mound of stone 2 ft.base, la ft.high W. of cor. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25,30,31 & 36, marked on brass cap, T 22 S, in N. half, 80.00

R 30 E S 25, in NW.,

R 31 E S 30, in NE.,
S 31 in SE., and
S 36 in SW. quad.;
raise a mound of stone 2 ft.base, la ft.high W.of cor. Land, rolling. Soil, 3rd rate, gravelly, stony, dry. Sage brush, cacti, good grass.

30. 00 40.00

40.00

South, bet. secs. 31 & 36. gently undulating land. Over

on a true line

Wash, 40 lks. wide, course SE.
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for 2 sec. cor., marked on brass cap,

S 36 in W., and S 31 in E. half;

° 80• 00

raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 22 & 23 S., Rs. 30 & 31 E., marked on brass cap,

T 22 S, in N., and T 23 S, in S., half, R 30 E, in W., and R 31 E, in E. half, S 36 in NW.,

S 31 in NE.,

6 in SE., and S

S l in SW. quad.; raise a mound of stone 4 ft.base, 2 ft.high S. of cor., from which,

Bunk Robinson Peak brs. S. 77°39! E.

A prominent peak in Mexico, brs. S. 11°42' E.

Land, rolling.
Soil, 3rd rate, gravelly, stony, dry, loose.
Sage brush, cacti, good grass.

Nov. 5, 1912.

corners.

Since it is evident from my former retracement of the North bdy. of this Tp. that same is out of limits in alinement and measurement, I proceed to run a random line East, from the SW. cor. of the Tp., and also a random line South, from the NE. cor. of the Tp., in accordance with instructions covering the case. In order to verify my alinement at the cor. of Tps. 22 & 23 S., Rs. 30 & 31 E., as just extablished and described by me, from which the measurements and alinement of much work is based, I proceed as follows:

At 4h p.m., l.m.t., I set off. 15°46'S. on the decl. arc, and 31°28'N. on the lat. arc, and determine a meridian with the solar, which meridian agrees with the line of the West bdy. of the Tp. just run by me, and on which I have left several flags at prominent points, and

Nov. 5, 1912.

Not. 6, 1912.

Nov. 6, 1912.

At 4h 25m a.m., l.m.t., I observe Polaris at W. elongation in accordance with instructions in the "Manual", and markethe line thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station.

At 7h 45m a.m., l.m.t., I set off the azimuth of Polaris, 1°21' to the East, and mark the true meridian thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station, which line falls about 15" W. of the line of the West bdy. of the Tp. The magnetic bearingtiffithe true meridian at this point is N. 13°10' W.; the angle thus determined gives the magnetic declination as 13°10' E.

At 8h a.m., l.m.t., I set. off. 15°58's. on the decl. arc, and 31°28! N. on the lat. arc, and determine a meridian with the solar, which meridian falls about 20" E. of the meridian as determined by observation of Polaris, and slightly East of the line of the West bdy. of Tp. These from so f alinement of the three meridians being no greater than the usual errors of observation, I conclude that the West bdy. of T. 22 S., R. 31 E. as already surveyed by me is practically correct.

From the cor. above described, I run, East, as per instructions, on a blank line, setting flags at prominent points on my line, and projecting the line due East for approximately six miles or more. Completing this random line, I proceed to the corner of Tps. 21 & 22 S., Rs. 31 & 32 E., heretofore described, make temporary camp.

Fast Boundary, T.225. R.31E.

Nov. 7, 1912.

At 8h a.m., l.m.t., at the cor. of Tps. 21 & 22 S.,

Rs. 31 & 32 E., an heretofore described, in Book "A"

I set \$16°16'S. on the decl. arc, and 31°33'N. on the
lat. arc, and determine a meridian with the solar.

Thence I run, as per instructions,

South, on a random line, setting flags at intervals,
at prominent points on my line, and projecting same
due South, to an intersection with the line run due
East from the SW. cor. of \$1225 R.31E.

At the instersection of these two lines, as per

instructions, I Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 22 & 23 S., Rs. 31 & 32 E., marked on brass cap,

marked on brass cap,

T 22 S, in N., T 23 S, in S.,

R 31 E, in W., and R 32 E, in E. half,

S 36 in NW., S 31 in NE., S 6 in SE., and S 1 in

SW. quad.;
raise a mound of stone 4 ft.base, 2 ft.high S.of cor.
No bearings available, corner being in a small cove.
From this corner, I run, as per instructions, on a true line

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Chains.
              North, bet. secs. 31 & 36,
                    Var. 13° E.
                    Over mts. land, dasc. grad.
                Drain, 50 lks. wide, near head, course SE., asc. SE. slope. Ridge, brs. E. & W., desc.
    6.80
  24.00
               Head of wash, course E., asc.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ‡ sec. cor., marked on brass cap,

‡ S 36 in W., and

S 31 in E. half;
 38.00
 40.00
                    raise a mound of stone 2 ft.base, 1 ft.high W. of cor.
               Ridge, brs. E. & W., desc. grad.

Wash, 30 lks. wide, course NW., asc.

Set an iron post 3 ft. long, 3 ins. in diam. 10 ins. in the the ground, on bed-rock, in mound of stone for cor. of secs. 25,30,31 & 36, marked on brass cap,

T 22 S, in N. half,

R 31 E S 25 in NW.,

R 32 E S 30 in NE.,

S 31 in SE., and
S 36 in SW. quad.:
 47.00
 71.60
80.00
                                          S 36 in SW. qued.;
                   raise a mound of stone 2 ft. base, la ft. high W. of cor.
               Land, mts. Soil, 3rd rate, sandy, gravelly, stony, loose.
               Sparse scrub oak, cacti, greasewood, fair grass.
At this cor., at noon, I set off 16°20' S. on the declarc, and observe the sun on the meridian.
                    The resulting lat. is 31°29' N.
                       on a true line
               North, bet. secs. 25 & 30. Over mts. land, asc. WSW. slope.
   5.00
                Top of rise, on W. slope, desc. grad. NW. slope.
               Wash, 60 lks. wide, course W., asc.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ‡ sec. cor., marked on brass cap,

‡ S 25 in W., and

S 30 in E. half;
 39.20
 40.00
                    raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
 45.00
               Desc.
 60.15
               Road, brs. E. & W.

Wash, 50 lks. wide, course W., asc.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19,24,25 & 30, marked on brass cap, T 22 S, in N. half,

R 31 E S 24, in NW.,

R 32 E S 19, in NE.,

S 30, in SE., and
S 25. in SW. quad.:
                Road, brs. E. & W.
 60.50
80.00
                   S 25, in SW. quad.; raise a mound of stone 2 ft.base, la ft.high W.of cor.
               Land, rolling, mts.
               Soil, 3rd rate, stony, gravelly, dry. Sparse scrub oak, cacti, sage brush, fair grass.
              North, bet. secs. 19 & 24.

Over mts. land, asc.
Ridge, brs. E. & W., desc.
Wash, 40 lks. wide, course W., asc. grad.
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,
$\frac{1}{2}$ S 24 in W., and,
$\frac{1}{2}$ S 19 in E. half:
                       on a true line
 28.00
 33.10
 40.00
                                          S 19 in E. half;
               raise a mound of stone 2 ft.base, 1½ ft.high W. of coreset an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13,18,19 & 24, marked on brass cap, T 22 S, in N. half,

R 31 E S 13, in NW., R 32 E S 18, in NE.,
 80.00
                   S 19, in SE., and S 24 in SW. quad.; raise a mound of stone 2 ft.base, la ft.high W.of cor.
               Land, mts., rolling.
               Soil, 3rd rate, stony, gravelly, loose, dry.
               Sparse scrub oak, greasewood, cacti, sage brush, fair grass.
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Chains,
                   on a true line
            North, bet. secs. 13 & 18.
                                                                                                    ROOK
                Over rolling land.
            Wash, 20 lks. wide, course WSW.

Wash, 30 lks. wide, course WSW.

Old wire drift fence, brs. S. 57°40' W. & N. 57°40' E.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ½ sec. cor., marked on brass cap,

½ S 13 in W., and

S 18 in E. half;
20.00
 27.10
 29.30
 40.00
              raise a mound of stone 2 ft.base, 12 ft.high W.of cor.
            Wash, 40 lks. wide, course SW. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 62.80
80.00
                the ground for cor. of secs. 7,12,13 & 18, marked on brass cap, T 22 S, in N. half,
R 31 E S 12, in NW.,
                                   R 32 E S 7, in NE.,
            S 18, in SE., and
S 13, in SW. quad.;
raise a mound of stone 2 ft.base, l2 ft.high W.of cor.
Land, rolling. Soil, 3rd rate, gravelly, dry.
         Sage brush, cacti, good grass.
            North, bet. secs. 7 & 12.

Over broken land, asc. grad.
 36. 00
             Ridge, brs. E. & W., desc. grad.
            Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 2 sec. cor., marked on brass cap, 2 12 in W., and S 7 in E. half;
40.00
            raise a mound of stone 2 ft.base, lt ft.high W.of core
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 1,6,7 & 12, marked on
brass cap, T 22 S, in N. half,
R 31 E S 1, in NW.,
R 32 E S 6, in NE.,
 80.00
                                        7, in SE., and
    .
• Ž
               S 12, in SW. quad.; raise a mound of stone 2 ft.base, 12 ft.high W.of cor.
            Land, rolling, broken.
            Soil, 3rd rate, stony, gravelly, loose, sandy, dry.
            Sage brush, cacti, greasewood, good grass.
            on a true line
North, bet. secs. 1 & 6.
                Over rolling, broken land.
            Wash, 20 lks. wide, course SW.
Wash, 10 lks. wide, course W.,
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for 2 sec. cor., marked on brass cap,
11.00
 33..00
40.00
                               # S l in W., and
S 6 in E. half;
            raise a mound of stone 2 ft.base, l\frac{1}{2} ft.high W.of cor. An earth dam is l0 chs. to W. of line.
            A stone house 15x24 ft., unoccupied, brs. West, about
                25 chs.
            Asc. from cor.
            Ridge, brs. W. & E., desc. grad.
To cor. of Tps. 21 & 22 S., Rs. 31 & 32 E., (8 heretofore
47.00
70.00
               described. in Book"A".
            Land, rolling, hilly.
            Soil, 3rd rate, gravelly, stony, dry, loose.
            Scrub oak, cacti, sage brush, greasewood, good grass.
                                                                 Nov. 7, 1912.
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South Boundary T. 22 S., R. 31 E. 10 Chains. Nov. 8, 1912. At 8h a.m., l.m.t., at the cor. of Tps. 22 & 23 S., Rs. 31 & 32 E., correcently established by ma,& hereinbefore described I set off 16°33% S. on the decl. arc, and 31.28'N. on the lat. anc, and determine a meridian with the solar. Thence I run, as per instructions, West, on a true line, on S. bdy. of Tp., bet. secs. 1 & 36. Over mts. land, asc. grad. Var. 13° E. Spur, brs. S. & N., desc. along broken S. slope.

Wash, 15 lks. wide, course S., asc.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ‡ sec. cor., marked on brass cap,

‡ S 36 in N., and

S 1 in S. half;

raise a mound of stone 2 ft.base, 1½ ft.high N. of cor. 20.00 33.50 40.00 65.00 Ridge, brs. S. & N., desc. Wash, 30 lks. wide, course S. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in 79.00 80.00 the ground for cor. of secs. 1,2,35 & 36, marked on brass cap, T 22 S, in N.,
T 23 S, in S., and R 31 E, in W. half, 8 35 in NW., S 36 in NE., 1 in SE., and 2 in SW. quad.; S raise a mound of stone 2 ft.base, lt ft.high W.of cor. Land, mts., broken, drains to S., from hills to N. Soil, 3rd rate, stony, dry. Sage brush, cacti, fair grass. on a true line West, bet. secs. 2 & 35. Over rolling, broken land, asc. grad. 25.00 Asc. prec. Desc. over rolling land. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in 30.00 40.00 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 35 in N., and S 2 in S. half; raise a mound of stone 2 ft.base, la ft.high W.of cor. Wash, 30 lks. wide, course S., asc. Spur from lava hill to N., brs. S. & N., desc. 52.00 58.00 Foot of main slope, brs. NNW. & SSE., enter valley. Set an iron post 3 ft. long, 3 ins. in diam. 25 ins. in the ground for cor. of secs. 2,3,34 & 35, marked on 70.00 80.00 brass cap, T 22 S, in N., T 23 S, in S., and
R 31 E,, in W. half,
S 34, in NW.,
S 35, in NE.,
S 2 in SE., and
S 3 in SW. quad.;
raise a mound of stone 2 ft.base, la ft.high W. of core Land, mts., broken, rolling.

Soil, 3rd rate, stony, gravelly, sandy, loose, dry.

Sparse sage brush, cacti, good grass.

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Chains.
                                                                                          LOOK
              on a true line
                                                                                                     2478
          West, bet. secs. 3 & 34.
          Over gently rolling valley, desc. gently.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ‡ sec. cor., marked on brass cap,

‡ $3\pm in N., and

$ 3 in S. half;
40.00
              raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high W.of cor.
          Wash, 15 lks. wide, course S.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
The ground for cor. of secs. 3,4,33 & 34, marked on
79.00
80.00
              brass cap, T 22 S, in N.,
                               T 23 S, in S., and R 31 E, in W. half;
                            S 34 in NE.,
                                    3 in SE., and
                                   4 in SW. quad.;
              raise a mound of stone 2 ft.base, la ft.high W.of cor.
          Land, rolling.
           Soil, 3rd rate, gravelly, sandy, dry.
           Sparse sage brush, cacti, fine grass.
               on a true line
           West, bet. secs. 4 & 33.
              Over gently rolling valley.
           Road, brs. ESE. & WNW.
 2.50
          Wash, 35 lks. wide, course SSE.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ½ sec. cor., marked on brass cap,

½ S 33 in N., and
S 4 in S. half;
22.70
40.00
              raise a mound of stone 2 ft.base, 1 ft.high N.of cor.
79.50
          Wash, 30 lks. wide, course SE. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
80.00
              the ground for corecofesses.m4,5,320& 33, marked on
              brass cap, T 22 S, in N.,
                               T 23 S, in S., and
                               R 31 E, in W. half;
8 32 in NW.,
                               S 33 in NE.,
S 4 in SE., and
                                   5 in SW. quad.;
                               S
              raise a mound of stone 2 ft.base, la ft.high W.of cor.
          Land, rolling.
Soil, 3rd rate, stony, gravelly, dry, sandy.
Sparse sage brush, cacti, good grass.
At this core, at noon, I set off 16°38' Se on the decle
              arc, and observe the sun on the meridian.
              The resulting lat. is 31°28' N.
              on a true line
           West, bet. secs. § & 32.
              Over rolling land.
          Asc.
 5.00
 8.00
          Top of rise, brs. N. & S. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
40.00
              the ground for ‡ sec. cor., marked on brass cap,
          the ground for T sec. cor., marked on brass cap,

‡ $32 in N., and

S 5 in S. half;

raise a mound of stone 2 ft.base, l½ ft.high N. of cor.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 5,6,31 & 32, marked on
brass cap, T.22 S, in N., T 23 S, in S., and R 31 E, in
W helf S 31 in NW
80.00
                               S 31 in NW.,
S 32 in NE.,
              W. half,
                                   5 in SE., and
                               S
                                  6 in SW. quad.;
             raise a mound of stone 2 ft.base, lt ft.high W.of cor.
          Land, rolling. Soil, 3rd rate, gravelly, stony, dry.
          Sparse sage brush, cacti, greasewood, good grass.
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40.00

80.90

Chains. on a true line West, bet. secs. 6 & 31. Over rolling land.

8 00 Desc.

12.70 Stony wash, 150 lks. wide, course S., asc. grad. 18.50 Asc. steep.

23.DOD Top of mesa, brs. N. & S., thence over gently rolling land.

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, $\frac{1}{2}$ S 31 in N., and S 6 in S. half;

raise a mound of stone 2 ft.base, light.high N.of cor. To cor. of Tps. 22 & 23 S., Rs. 30-& 31 E.,

horecentlye established by most tribubilore described

Land, rolling.
Soil, 3rd rate, gravelly, dry, stony, loose. Sparse sage brush, cacti, fine grass.

General Description. The West, and South boundaries of T. 22 S., R. 31 E. run over a rolling valley, well covered with native grass. There is no water or timber on or near these lines.

The East Boundary of T. 22 S., R. 31 E. runs over a broken country along near the west foot of the Peloncillo mountains. The land is covered with a fair growth of native grass, but there is no water or timber on or near the line.

Boundaries of T. 22 S., R. 31 E.

Latitudes, departures, and closing errors.

				Latit		Depart	
Line d	esignated.	True bearing.	Dist.	N.	S.	• .E• · •	W.
Condition		W	Chs.	Chs.	Chs.	Chs.	Chs.
West :		West,	480.90 480.00				480.90
Morth.	Boundary Jill.	S. 88°56'E S. 89°33'E	39.47- 40.47-		• 75		
	2-	S. 88°41'E	400.50	the second secon	• 27° 9• 20°	40.47°	1.5
East Conver	Boundary, gency,	South,	470.00		170.00	0.44	
		Total	ls 1	180.00	180.22	480.77	480.90
					180.00	#50 . 90	480.77
		Error in Latitu Error in Depart		الله الله الله الله الله الله الله الله	- V4 E.H.		- 2-17

Nov. 8, 1912.

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BOOK
Chains.
            Nov. 8, 1912.
            At 2h p.m., l.m.t., at the cor. of Tps. 22 & 23 S.,

Rs. 31 & 32 E., recently established by the & hereinbefore described of set off 16°39'S. on the decl. arc, and 31°28'N. on the lat. arc, and determine a meridian with the solar.

Thence I run, as per instructions, on a true line

East, on S. bdy. of Tp., bet. secs. 6 & 31.
                Over rolling land, desc. grad. Var. 13° E.
             Wash, 20 lks. wide, course S., asc. pt. of spur. Top of spur, brs. W. & E., thence on flat ridge, brs.
   9.10
 24.00
                S. & N.
             Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
40.00
                the ground for \frac{1}{2} sec. cor., marked on brass cap, \frac{1}{2} S 31 in N., and S 6 in S. half;
                raise a mound of stone 2 ft.base, lt ft.high N. of cor.
 51.00
             Desc.
             Wash, 15 lks. wide, course S., asc. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5,6,31 & 32, marked on
 62.00
80.00
                brass cap, T 22 S, in N.,
                                  T 23 S, in S., and
R 32 E, in W. half,
S 31 in NW.,
                                  S 32 in NE.,
                                       5 in SE., and
                S 6 in SW. quad.;
raise a mound of stone 2 ft.base, la ft. high W. of cor.
Stove pipe of school house in draw of Cottonwood
                Creek brs. S. 34°46' W.
             Land, rolling, mts. Soil, 3rd rate, gravelly, stony, dry.
             Scrub oak, sage brush, cacti, fair grass.
             en a true line East , bet. secs. 5 & 32.
                Over mts. land,
             Desc. steep, from mesa, brs. NE. & SW. Cottonwood Creek (dry), 100 lks. wide, course SW.,
   5.00
 15.00
             Road, brs. NNE. & SW.
  17,85
             Set a cedar post 3 ft. long, 3 ins. in diam. on line
 18.00
                in mound of stone for witness point, marked W P, on
                W., and T L, on E. faces.
House of W.M. McDonald brs. N. 3 chs. dist.
                 Tank and windmill brs. North, about 15 chs. dist.
             Asc. prec. W. slope.
 19.50
 28.00
             Wire fence, brs. NW. & SE.
             Top of steep ascent, continue to asc. grad.

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 capp.

$\frac{1}{4}$ $ 32 in N., and
  36. 00
  40.00
                                  S 5 in S. half;
             raise a mound of stone 2 ft.base, la ft.high N.of cor. High rocky ridge, brs. SW. & NE., thence along broken,
  44.00
                 stony SSE. slope.
             Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4,5,32 & 33, marked on
/ 80.00
                brass cap, T 22 S, in N.,
T 23 S, in S., and
R 32 E, in W. half,
                                  S 32 in NW.,
                                  S 33 in NE.,
S 4 in SE.
                                          in SE., and
                                      5 in SW. quad.;
                raise a mound of stone 2 ft.base, 1 ft.high W. of cor.
                No bearings available, pits impracticable.
             Land, mts.
             Soil, third rate, stony, gravelly, dry.
             Scrub oak, cacti, sparse grass.
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Nov. 8, 1912.

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800x
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Chains. just described Nov. 20, 1912. At 8h a.m., 1.m.t., at the cor. of secs. 4,5,32 & 33, I set off 19°40 'S. on the decl. arc, and 31°28'N. on the lat. arc, and determine a meridian with the solar. Martin Element Thence I run,
East on better secs. 4 & 33 Over mts. land, asc. SSW. slope. 25.00 Top of racky ridge, brs. NW. & SE., desc. steep. Wire fence, brs. NW. & SE. *36*•50 40.00 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 N., and S 4 in S. half; from which, An oak tree 12 ins. diam. brs. N. 33°E. 40 lks. dist., marked + S 33 B T. An oak tree 5 ins. diam. brs. S.14°E. 9 lks. dist., marked 4 S 4 B T. Thence along steep N. slope. Desc. steep NE. slope. 59.00 Gulch, 25 lks. wide, course N., asc. 70.00 76.00 Spur, brs. N. & S., desc. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in The ground for cor. of secs. 3,4,53 & 34, marked on brass cap, T 22 S, in N., 80.00 # 23 S, in S., and R 32 E, in W. half, s 33 in NW., s 34 in NE., 3 in SE., and 8 4 in SW. quad.; from which, An oak tree 14 ins.diam.brs. N.89°E. 237 lks. dist., marked T 22 S R 32 E S 34 B T.

An oak tree 14 ins.diam.brs. S.85 ©E.165 lks. dist., marked T 23 S R 32 E S 3 B T. No other trees in limits. raise a mound of stone 2 ft.base, la ft.high W.of cor. Land, mts., rough. Soil, 3rd rate, stony. Scattering oak trees, scrub oak, cacti, sparse grass. en a frue line East, bet. secs. 3 & 34. Over mts. land, desc. steep. 5.00 S. fork of Cottonwood Canyon, 100 lks. wide, course NNW. ASC. Spur, brs. S. & N., desc. 11.00 Gulch, 100 lks. wide, course SW., heads 20 chs. NE., asc. 16.00 along prec. NW. slope.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for the sec. cor., marked on brass cap,

\$ 34 in N., and
\$ 3 in S. half, from which,
an oak tree 26 ins. diam. brs. N. 89°E. 160 lks. dist., 40.00 marked ‡ S 34 B T.
An oak tree 10 ins.diam.brs. S.85°E. 81 lks. dist., marked ‡ S 3 B T.

Thence along N. slope of rocky spur to W.

Top of spur, brs. WSW. & ENE., ascend mountain ridge, on 60.00 W. slope. 79.00 Gulch, 50 lks. wide, course SW., asc. prec. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in 80.00 the ground for cor. of secs. 2,3,34 & 35, marked on brass cap, T 22 S, in N., T 23 S,in S., and R 32 E,in W. half,

S 34 in NW., S 35 in NE.,

S 2 in SE., and S 3 in SW. quad.; from which,

An oak tree 14 ins. diam. brs. N. 37 °W. 78 lks. dist.,

marked T 22 S R 32 E S 34 B T. No other trees available. Raise a mound of stone 2 ft.base, 1 ft.high W. of cor. At this cor., at noon, I set off 19044'S. on the decl. arc, and observe the sun on the meridian. The resulting late is 31°28' N. Land, mts., rough. Soil, 3rd rate, stony. Sparse oak, dense clumps of scrub oak, cacti. fair grass.

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East , bet . secs. 2 & 35.
Chains.
                                                                                             BOOK 2478
            Over mts. land, asc. steep W. slope.
Ridge, brs. N. & S., desc. steep E. slope.
   10.00
            Gulch, 30 lks. wide, course S. ,asc. Spur, brs. N. & S., desc.
   20.00
   30.00
    36.00 Head of drain, to S., asc.
   40.00 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 ap, \frac{1}{2} S 35 in N., and S 2 in S. half; from which,
               An oak tree 6 ins.diam.brs. N.23°W. 19 lks. dist.,
                                marked 4 S 35 B T.
               An oak tree 14 ins. diam. brs. S. 84°W. 78 lks. dist.,
   marked ± S 2 B T.
45.00 Spur, brs. S. & N., desc.
   50.00 Gulch, 50 lks. wide, course SE., asc. steep.
            Spur, brs. S. & N., near S. end, desc. prec. Gulch, 150 lks. wide, course SW., asc.
   59.00
   70.00
   71.00 Intersect East Boundary of Arizona at a point, whence the 381 mile cor. on said bdy. brs. North, 39.50 chs.
               dist., which is a granite stone 17x8x7 ins., marked
               and witnessed as described by the Surveyor-General.
            Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of trac. Tps. 22 & 23 S., R. 32 E., marked on brass cap,
                                C C, and N M, on E.,
R 32 E, and ARIZ on W. half,
               T 22 S, S 35 in NW., and
T 23 S, S 2 in SW. quad.; from which,
A juniper tree 15 ins.diam.brs.S.413 W. 154 lks.dist.,
marked T 23 S R 32 E S 2 C C B T.
               No other trees in limits.
               Raise a mound of stone 3 ft.base, 2 ft.high W.of cor.
            Land, mts., rough.
Soil, 3rd & 4th rate, stony, gravelly, dry.
            Oak, juniper, pinon, scrub oak, pinon, cacti, fair grass.
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General Description.
The South Boundary of T. 22 S., R. 32 E., runs over a rough, broken ,mountainous country, gradually ascending from the valley to the West, to near the top of the Peloncillo mountains to the East.

There is some oak and juniper timber along the line, but little of any commercial value.

The formation of the mountains is mostly granite, with intrusions of sandstone, and tovered in places with with igneous, or volcanic stones, or tufa.

There is no water along the line.

Boundaries of To 22 So, Ro 32 E.

Latitudes, departures, and closing errors.

		True		İ	Latit	ides.	Ī	Depart	ures.
Line D	esignated.		Dist.	•	N.	S. 1.		E	w.
South	Boundary,	West,	Chs.		Chs.	Chs.		Chs.	Chs.
West North	Boundary, Boundary,	North, Z East, South,	470.00 389.90 469.24	4	470.00·	469•24		389.90	
Conver			107643	İ		707627		0.36 ²	·
		Totals,			470.00 469.24	469-24		390 • 26	391.00 390.26
		Error in L	at		0.76	Error i	r	Den.	02.7

Nov. 20, 1912

Jesse B. Wright

U. S. Surveyor.

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BOOK
Chains.
            Dec. 2, 1912.
At 8h a.m., 1.m.t., at the cor. of Tps. 22 & 23 S.,
               Rs. 30 & 31 E., a recently established by mede hereinbefore
                described
            I set off 21°56' S. on the decl. arc, and 31°28'N. on
               the lat., arc, and determine a meridian with the solar. End test said meridian by comparison with the meridian of the West bdy. of T. 22 S., R. 31 E., as established and tested by observation of Polaris, on Nov. 6, 1912.
               Finding that my solar meridian agrees closely with the
               meridian as established by Polaris, from the corner
            above described, I run, as per instructions, on a true line South, on range line, bet. secs. 1 & 6.
               Var. 13°10' E.
               Over rolling land, fine native grass, scattering cacti
               and sage 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,
 40.00
                            # S l in W., and
S 6 in E. half;
           raise a mound of stone 2 ft.base, 1 ft.high W. of cor. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in The ground for cor. of secs. 1,6,7 & 12, marked on
80.00
               brass cap, T 23 S in N. half,
                                 R 30 E S 1 in NW.,
               R 31 E S 6 in NE.,
S 7 in SE., and
S 12 in SW. quad.;
raise a mound of stone 2 ft.base, l\u00e4 ft.high W. of cor.
            Land, ralling.
            Soil, 3rd rate, gravelly, sandy, loose, dry. Sage brush, wacti, good grass.
                  on a true line
           South, bet. secs. 7 & 12.

Over gently rolling land.

Set an iron post 3 ft. long, 1 ins in diam. 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap,
40.00
                             ‡ S 12 in W., and
S 7 in E. half;
          raise a mound of stone 2 ft.base, 1 ft.high W. of core Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for core of secs. 7,12,13 & 18, marked on
80.00
           brass cap, T 23 S in N. half,
                                 R 30 E S 12 in NW.,
                                R 31 E S 7 in M
S 18 in SE., and
                                               7 in NE.,
              S 13 in SW. quad.; raise a mound of stone 2 ft.base, la ft.high W.of cor.
           Land, rolling. Soil, 3rd rate, gravelly, loose, dry.
           Sage brush, cacti, good grass.
                 on a true line
           South, bet. secs. 13 & 18.
           Over gently rolling land.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ‡ sec. cor., marked on brass cap,

‡ S 13 in W., and
40.00
                                S 18 in E. half;
              raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
           Well drilling outfit brs. S. 59°E., now sinking well. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13,18,19 & 24, marked on
80.00
              brass cap, T 23 S in N. half,
              R 30 E S 13 in NW., R 31 E S 18 in NE., S 19 in SE., and S 24 in SW. quad.; raise a mound of stone 2 ft.base, late ft.high W. of cor.
              Well drilling outfit brs. N. 74°20' E.
           Land, rolling. Soil, 3rd rate, gravelly, loose, dry.
           Sage brush, cacti, good grass.
           At this cor., at noon, I set off-21°58 2'S. on the decl.
              arc, and observe the sun on the meridian.
              The resulting lat. is 31°25 N.
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West Boundary T. 23 S., R. 31 E.
18
            on a true line
South, bet. secs. 19 & 24.
Over gently rolling land.
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
Chains.
 40.00
               the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4} S 24 in W., and S 19 in E. half;
                raise a mound of stone 2 ft.base, la ft.high W.of cor.
            Wash, 40 lks. wide, course SW. Road, brs. WSW. & ENE.
 50.00
 76.20
            Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 80.00
                the ground for sor. of secs. 19,24,25 & 30, marked on
               brass cap, T 23 S in N. half,
R 30 E S 24 in NW.,
R 31 E S 18 in NE.,
                                  S 30 in SE., and
                                  S 25 in SW. quad.;
                raise a mound of stone 2 ft.base, 12 ft.high W.of cor.
            Land, rolling. Soil, 3rd rate, gravelly, loose, dry.
            Sage brush, cacti, good grass.
            on a true line
South, bet. secs. 25 & 30.

Over rolling, stony land, scrub mesquite and cacti"
Set an iron post 3 ft. long, l in. in diam. 25 ins. in
the ground for $\frac{1}{2}$ sec. cor., marked on brass cap,
 40.00
                              # S 25 in W., and S 30 in E. half;
            raise a mound of stone 2 ft. base, lt ft. high W. of core
Set an aron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 25,30,31 & 36, marked on
brass cap, T 23 S, in N. halfm
R 30 E S 25 in NW.,
R 31 E S 30 in NE.,
 80.00
                                  S 31 in SE., and
                                  S 36 in SW. quad.;
               raise a mound of stone 2 ft.base, la ft.high W. of cor.
            Land, rolling. Soil, 3rd rate, stony, gravelly, dry
            Sage brush, wacti, good grass.
            South, bet. secs. 31 & 36.
Over heavily rolling land, over loose volcanic stone,
                good grass, scrub mesquite and cacti.
            Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for t sec. cor., marked on brass cap,
 40.00
            † S 36 in W., and
S 31 in E. half;
raise a mound of:stone 2 ft.base, l\(\frac{1}{2}\) ft.high W. of cor.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cer. of Tps. 23 & 24 S., Rs. 30 & 31 E.,
 80.00
               marked on brass cap,
                                  T 23 S in N., and
T 24 S in S. half;
R 30 E S 36 in NW., and
R 31 E S 31 in NE.,
                                  S 6 in SE., and
S 1 in SW. quad.;
               raise a mound of stone 2 ft.base, lt ft.high 5.of cor.,
               from which,
               A prominent peak in Mexico brs. S.14°11' E.
               College peak brs. N.62°16'W.
            Niggerhead peak brs. S. 71 08 W. Land, rolling. Soil, 3rd rate, gravelly, stony, dry.
            Mesquite, cacti, greasewood, sage brush, good grass.

Dec. 2, 1912.
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Chains Dec. 3, 1912.
                                                                                                                   BOOK
              At 8h a.m., 1.m.t., at the cor. of Tps. 22 & 23 S.,

Rs. 31 & 32 E., rementing notablished before & hereinbefored described,
I set off 22 04 S. on the decl. arc, and 31 28 N. on
                  the lat. arc, and determine a meridian with the solar.
                   Thence I run, as per instructions, on a true line,
              South, on range line, bet. secs. 1 & 6.

Over rolling land, desc. grad.

Wash, 20 lks. wide, course W., asc. grad.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ‡ sec. cor., marked on brass cap,

‡ S l in W., and

S 6 in E. half;
10.00
 40.00
                  raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
              Ridge, brs. E. & W.,
60.00
                                                      desc.
              Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,6,7 & 12, marked on
80.00
             the ground for cor. of secs. 1,0,7 & 12, marked on brass cap, T 23 S in N. half,

R 31 E S l in NW.,

R 32 E S 6 in NE.,

S 7 in SE., and

S 12 in SW. quad.;

raise a mound of stone 2 ft.base, 1 ft.high W.of. cor.

Land, rolling. Soil, 3rd rate, gravelly, dry.

Mesquite brush, cacti, greasewood, sage brush, fair grass.
                     on a true line
              South, bet. secs. 7 & 12.
Over rolling land, desc. grad.
             Road, brs. NE. & SW. Road, brs. NE. & SW. Road, brs. NE. & SW.
10.73
35•58
39•40
             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 12 in W., and
40.00
                                            7 in E. half;
                                                                          from which,
                 A cottonwood tree 8 ins.diam.brs. S.74°E. 72 lks. dist.
                 marked 1 S 7 B T.

An oak tree 4 ins. diam. brs. S. 15° W.
                                                                                                   78 lks. dist.
                                      marked & 8 12 B T.
             Centre of cottonwood creek, (dry), 120 lks. wide, course W.,
40. 99
             joins Sycamore Creek 7 chs. to WSW.
Sycamore Creek, (dry) 90 lks. wide, course W., asc.
47.00
71.50
              Ridge, brs. W. & E., desc.
             Wash, 10 lks. wide, course W., asc. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7,12,13 & 18, marked on
79.25
80.00
                 brass cap, T 23 S in N. half,
R 31 E S 12 in NW.,
                                      R 32 E S
                                                         7 in NE.,
                S 18 in SE., and
S 13 in SW. quad.;
raise a mound of stone 2 ft.base, la ft.high W.of cor.
                 No bearings available, pits , impracticable.
             Land, rolling, hilly.
            Soil, 3rd rate, gravelly, stony, dry.
Mesquite, cacti, catclaw, greasewood, sparse grass;
few cottonwoods and sycamore trees in Creeks.
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East Boundary T. 23 S., R. 31 E.
Chains.
                         on a true line
                 South, bet. secs. 13 & 18.

Over rolling land, asc.

Spur, brs. W. & E., desc. grad. along WSW. slope.

Desc. S. slope through scattering mesquite.
    7..00
  30.00
                 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}{2} S 13 in W., and
 40.00
                                              S 18 in E. half;
                     raise a mound of stone 2 ft. base, la ft. high W. of cor.
                 Wash, 30 lks. wide, course W., asc. gently.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 13,18,19, & 24, marked on
 50.00
 80.00
                     brass cap, T 23 S in N. half,
R 31 E S 13 in NW.,
R 32 E S 18 in NE.,
S 19 in SE., and
                     s 24 in SW. quad.; raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
                 Land, rolling, hilly.
                 Soil, 3rd rate, gravelly, dry.

Mesquite brush cacti, greasewood, sage brush, fair grass.

At this cor., at noon, I set off222725. on the decl. arc,
                      arc, and observe the sun on the meridian.
                      The resulting lat. is 31°25' N.
                 South, bet. secs. 19 & 24.
Over rolling land.
Road, brs. NW. & SE.
  15.00
                 Wash, 90 lks. wide, course SW. ascend.

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 W., and

S 19 in E. half;

raise a mound of stone 2 ft.base, 1\( \frac{1}{2} \) ft.high W.of cor.

Thence over stony, grassy flat, drains to W.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19,24,25 & 30, marked on brass cap. T 23 S in N. half.
  19.00
  40.00
  80.00
                      brass cap, T 23 S in N. half,
R 31 E S 24 in NW.,
                                               R 32 E S 19 in NE.,
                                               S 30 in SE., and
                                               S 25 in SW, quad.;
                      raise a mound of stone 2 ft.base, lt ft.high W.of cor. Land, rolling. Soil, 3rd rate, gravelly, dry, stony. Sage brush, cacti, sparse mesquite, fair grass.
                           on a true line
                  South, bet. secs. 25 & 30. Over rolling land.
                 Break in flat or mesa, brs. NE. & SW., desc.
Wash, 15 lks. wide, course SW., enter mesquite brush.
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,
\( \frac{1}{2} \) S 25 in W., and
\( S 30 \) in E. half;
  19.00
  25.27
  40.00
                       raise a mound of stone 2 ft.base, 1 ft.high W. of cor.
                  Road, brs. ENE. & WSW.
   57.22
                  Wash, 30 lks. wide, course WSW. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
   70. 25
   00.00
                       the ground for cor. of secs. 25,30,31 & 36, marked on
                      brass cap, T 23 S in N. half,

R 31 E S 25 in NW., R 32 E S 30 in NE.,

S 31 in SE., and S 36 in SW. quad.;

raise a mound of stone 2 ft.base, l2 ft. high W. of cor.
```

Land, rolling.

Soil, 3rd rate, gravelly, dry, stony. Mesquite, catclaw, cacti, good grass.

Chains, BOOK on a true line South, bet. secs. 31 & 36. Over heavily rolling land, asc. 5.00 Ridge, brs. W. & E., desc. grad. Road, brs. ENE. & WSW., 12.80 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, $\frac{1}{2}$ S 36 in W., and S 31 in E. half; 40.00 43.92

80.00

raise a mound of stone 2 ft. base, $1\frac{1}{3}$ ft. high W. of cor. Road, brs. NE. & SW., in draw & chs. wide, course WSW., asc. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 23 & 24 S., Rs. 31 & 32 E., marked on brass cap,

T 23 S in N., and T 24 S in S. half, R 31 E S 36 in NW., R 32 E S 31 in NE., S 6 in SE., and

S 1 in SW. quad., Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high S.of cor. No bearings available, pits impracticable. Corner is in small depression, draining to W. Land, rolling.

Soil, 3rd rate, gravelly, dry.
Sage brush, cacti, greasewood, mesquite, catclaw, fair grass.

Dec. 3, 1912.

South Boundary T. 23 S. R. 31 E.

Dec. 4, 1912. At 8h a.m., l.m.t., at the cor. of Tps. 23 & 24 S., Rs. 31 and 32 E., as above established and described, I set off 22°13'S. on the decl. arc, and 31,222 N. on the late arc, and determine a meridian with the solar. Thence I run, as per instructions,

West, on a random line, on S. bdy. of Tp., setting temp. 2 and sec. cors. at intervals of 40 and 80 chs. At 6 miles, 1.44 chs., I intersect W. bdy. of Tp. 28 lks.

N. of the cor. of Tps. 23 & 24 S., Rs. 30 & 31 E., as hearth'd astablished bimak hearth described, whence I run,

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South Boundary T. 23 S., R. 31 E.
             22
176
            Chains.
                         N. 89°58' E., on a true line, bet. secs. 6 & 31. Over broken, rolling land.
                         S. point of small gravelly spur, from mesa, brs. N. & S. Desc.
              1.50
                         Wash, 30 lks. wide, course SW., Cottonwood Creek.
Road, brs. NNE. & SSW.
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,
$\frac{1}{2}$ S 31 in N., and
$\frac{1}{2}$ S 6 in S. half;
            20.00
            22.00
41.<del>94</del>
                             raise a mound of stone 2 ft.base, 12 ft.high N.of cor.
            45.00
                         Leave draw, asc.
                         Top of broken mesa, brs. ENE. & WSW., thence over same,
            48.00
                             near S. rim, through dense mesquite brush.
                         Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5,6,31 & 32, marked on brass cap, T 23 S in N.,
            81.44
                                                                      T.24 S in S.,
                                                                                               and
                                                                      R 31 E in W. half,
                                                                      S 31 in NW.,
                                                                      8 32 in NE.,
                                                                               in SE., and
                                                                      S
                             S 6 in SW. quad.; raise a mound of stone 2 ft.base, 1 ft.high W. of cor.
                         Land, rolling, broken. Soil, 3rd rate, gravelly, dry.
Mesquite, cacti, catclaw, greasewood, fair grass.
At this cor., at noon, I set off 22°16'S. on the decl.
arc, and observe the sun on the meridian.
                              The resulting lat. is 31°22 N.
                         N. 89°58 E. A bet. secs. 5 & 32.
                             Over rolling broken mesa.
                         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,
             40200
                                              $ 32 in N., and
S 5 in S. half;
                             raise a mound of stone 2 ft.base, 12 ft.high N.of cor.
                         Wash, 20 lks. wide, course S.
            50.75
                         Wash, 10 lks. wide, course SW.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 4,5,32 & 33, marked on
brass cap, T 23 S in N., T 24 S in S., and
             62.55
             80.00
                                                  R 31 E in W. half;
                         S 32 in NW., S 33 in NE.,
S 4 in SE., and S 5 in SW. quad.;
raise a mound of stone 2 ft.base, la ft.high W. off cor.
Land, rolling. Soil 3rd rate, gravelly, stony, dry, loose.
                         Sage brush, mesquite, cacti, fair grass.
                         N. 89°58; E., bet. secs. 4 & 33.

Over rolling, broken land., desc. grad.
            10.00
                         Enter draw, course WSW.
                         Wash, 30 lks. wide, course WSW.

Set an iron post 3 ft. long, l in. in diam. 26 ins.in
the ground for 1 sec. cor., marked on brass cap,

1 S 33 in N., and
S 4 in S. half;
             22.50
             40.00
                             dig pits 18x18x12 ins. E. & W. of cor. 3 ft.dist., and raise a mound of earth 3 ft.base, 1 ft.high N.of cor. Thence over loose sandy bottom land, in wide draw.
            60.30
                         Road, brs. NE. & SW.
            67.67
                         Road, brs. WNW. & ESE.
                         Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3,4,33 & 34, marked on brass cap, 7:23 S in N., T 24 S in S., and
            80.00
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R 31 E in W. half;

S 33 in NW., S 34 in NE., S 3 in SE., and S 4 in SW. quad.; raise a mound of stone 2 ft.base, la ft.high W. of cor. Land, rolling. Soil, 2nd & 3rd rate, gravelly, sandy. Mesquite, sage brush, greasewood, cacti, fair grass.

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Chains,
           N. 89°58' E.A bet. secs. 3 & 34.
Over flat in draw.
                                                                                          BOOK | 2478
 11.48
           Road, brs. N. & S.
 17.00
           Leave draw, course WSW. from ENE., asc. grad., over
           rolling, broken S. edge of mesa.

Set an iron post of the long, 1 in. in diam. 26 ins. in
the ground for 1 sec. cor., marked on brass cap,

1 S 34 in N., and
S 3 in S. half;
40.00
              raise a mound of stone 2 ft.base, la ft.high N.of cor.
           Enter draw, course SW. Road, brs. NE. & SW.
 42.00
51.30
           Leave draw, course SW., from ENE.,
57.00
59.00
           Wash, 10 lks. wide, course NW.
70.00
           Wash, 15 lks. wide, course N., asc. along N. side of
              hill to S.
           Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2,3,34 & 35, marked on
80.00
              brass cap, T 23 S in N.,
                               T 24 S in S., and R 31 E in W. half;
                               8 34 in NW.,
                               8 35 in NE.,
                                   2 in SE., and
              S 3 in SW. quad.; raise a mound of stone 2 ft.base, 12 ft.high W.of cor.
           Land, rolling, broken, level.
           Soil, 2nd & 3rd rate, sandy, gravelly, dry, loose.
           Mesquite, greasewood, sage brush, cacti, fair grass.
           N. 89°58' E. bet. secs. 2 & 35.

Over broken land, along near N. foot of hill to S.

Over broken land, along near in in diam. 26 ins.
40.00
           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 35 in N., and S 2 in S. half;
              raise a mound of stone 2 ft.base, 12 ft.high N. of cor-
           Wash, 15 lks. wide, course N.
51.70
          Wash, 20 lks. wide, course NW., enter draw, course WNW.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 1,2,35 & 36, marked on
brass cap, T 23 S in N.,
T 24 S in S., and
B 21 F in W helf
62.00
80.00
                              R 31 E in W. half,
S 35 in NW.,
S 36 in NE.,
                                   1 in SE., and
                                  2 in SW. quad.;
              raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high W. of cor.
           Land, broken, rolling.
           Soil, 3rd rate, gravelly, sandy, loose, dry.
           Sage brush, mesquite, greasewood, cacti, fair grass.
          N. 89°58; E.A bet. secs. 1 & 36.
Over gently rolling land.
Asc. grad. through dense greasewood and mesquite.
          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}{2} S 36 in N., and S I in S. half;
40.00
          dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3 ft. base, 1 ft. high N. of cor. To cor. of Tps. 23 & 24 S., Rs. 31 & 32. E. hereinbefore described.
80.00
          Land, rolling.
          Soil, 3rd rate, gravelly, sandy, loose.
          Mesquite, greasewood, sage brush, cacti, good grass.
```

CON.

General Description.

The East, West, and South Boundaries of T. 23 S., R.

31 E. run over a rolling, or broken valley, draining to the south and West.

The left is in general a loose gravelly loam, sandy in places, covered in places with loose volcanic tufa. There is some agricultural land in the draws, but the land is valuable mostly for grazing purposes, being fairly well covered throughout with a growth of native gass. There is no water or timber along the boundaries, not any trace of mineral.

Boundaries of T. 23 S., R. 32 E. Latitudes, departures and closing errors.

		True		Latiti	udes.	Depar	ures.
Line	Designated.	bearing.	Dist.	N.	S.	E.	W.
West North East	Boundary, Boundary, Boundary, Boundary, gency,	8.89.58 W. North, East, South,	Chs. 481. 44 480.00 480.90 480.00	480.00	Chs. 0.28	Chs. 480.90 0.44	Chs. 481. 44
		Totals,	et.,	480.00	480.28 480.00	481.34	481.44 481.34
		Error in D					0.10

Dec. 4, 1912.

J. S. Surveyor.

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BOOK 2478
Chains.
              Dec. 17, 1912.
                  8h a.m., l.m.t., at the cor. of Tps. 23 & 24 S., Rs. 31 & 32 E., recentla restablished by an Einereinbefore described,
              At 8h a.m., l.m.t.,
              I set off 23°19 ('S. on the decl. arc, and 31922 N. on
              the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, on a true line. South, on range line, bet. secs. 1 & 6.
                  Over slightly rolling land, asc. grad., through mesquite,
             dense sage brush, and greasewood.

Top of low flat divide, brs. E. & W., desc. grad.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1 sec. cor., marked on brass cap,

1 S 1 in W., and

S 6 in E. half;
 20.00
 40.00
             raise a mound of stone 2 ft.base, 1 ft.high W.of cor. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,6,7 & 12, marked on
 80.00
                 brass cap, T 24 S in N. half,
                                     R 31 E S l in NW.,
                 R 32 E S 6 in NE.,
S 7 in SE., and
S 12 in SW. quad.;
raise a mound of stone 2 ft.base, 12 ft.high W.of cor.
             Land, rolling. Soil, 3rd rate, gravelly, sandy, loose.
              Greasewood, sage brush, mesquite, catclaw, fair grass.
             south, bet. secs. 7 & 12.
                 Over gently rolling land, through dense sage brush,
                 greasewood, and cacti.
             greasewood, and cacti.

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,

$\frac{1}{2}$ $12 in W., and

$$ 7 in E. half;

digrats 18x18x12 ins. N. & 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.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7.12.13 & 18. marked on
40.00
80.00
                 the ground for cor. of secs. 7,12,13 & 18, marked on
                brass cap, T 24 S in N. half,
R 31 E S 12 in NW.,
                                     R 32 E S
                                                      7 in NE.,
                                     S 18 in SE., and
            S 13 in SW. quad.;
raise a mound of stone 2 ft.base, lateral ft.high W.of cor.
Land, rolling. Soil, 3rd rate, gravelly, dry.
Mesquite, catclaw, greasewood, sage brush, cacti, fair
                 grass.
                   on a true line
             South, bet. secs. 13 & 18.
Over rolling land, through dense sage brush, greasewood,
                mesquite, catclaw, and cacti.
30.00
            Desc. grad.
40.00
            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 13 in W., and
                                    S 18 in E. half;
                raise a mound of stone 2 ft.base, 1 ft.high W.of cor.
            Desc. along flat ridge, to S.
S. point of flat ridge, brs. S. & N., desc. steep.
Gulch, 50 lks. wide, course SW., asc.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
74.70
79.00
80.00
                the ground for cor. of secs. 13,18,19 & 24, marked on
                brass cap, T 24 S in N. half,
R 31 E S 13 in NW.,
                                    R 32 E S 18 in NE.,
                                    S 19 in SE., and
               S 24 in SW. quad,; raise a mound of stone 2 ft.base, la ft.high W.of cor.
            Land, rolling. Soil, 3rd rate, gravelly, dry, loose.
            Greasewood, sage brush, mesquite, cacti, fair grass.
```

Chains.

5.00

8.50

11.37

on a true line
South, bet. secs. 19 & 24.
Over rolling land, asc.

Top of rise, at W. foot of hill, desc. grad.

Road, brs. ENE . & WSW.

Intersect International Boundary Line bet. the United States and Mexico. at ego int Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for Closing cor. of frac. Tps. 24 S., Rs. 31 & 32 E.,

marked on brass cap, CC, and MEX

CC, and MEX, in S., and U S, and T 24 S, in N. half, R 31 E S 24 in NW., and

R 32 E S 19 in NE. quad;, raise a mound of stone 3 ft. base, 2 ft. high N. of cor. At this cor., at noon I set off 23 21 S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 31,20' N.

From the closing cor. above described,
Mon. No. 74 on International Bdy. line brs. S.89°25'E., 20.60 chs." dist., which is an iron monument, on concrete base, as described by the Surveyor-General. Mon. No. 75 on International Bdy. line brs. N.89°25'W., 261.00 chs.dist., which is an iron monument, on concrete base, as described by the Surveyor-General.

Dec. 17, 1912. In the afternoon of this date I retrace the International Boundary line West to the line of the San Bernardino Grant, and determine the true course and distance of this line.

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Chains.
            Dec. 18, 1912.
           At 8h a.m., 1.m. t., at the cor. of Tps. 23 & 24 S.,
Rs. 30 & 31 E., recently established by me & hereintiefore described.
            I set off(23°21' S. on the decl. arc, and 31°22½'N. on
            the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, on a true line South, on range line, bet. secs. 1 & 6,
               Var. 13° E.
               Over heavily rolling, broken, land, desc. grad.
           Enter draw, course WSW.
Road, brs. NE. & SW.
Wash, 20 lks. wide, course W., from Cottonwood Creek.
 18.00
 21.02
 30:00
 35.00
           Leave draw, asc. grad.
 40.00
           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 l in W., and S 6 in E. half;
              raise a mound of stone 2 ft. base, 1\frac{1}{2} ft. high W. of cor.
52.00
           Wash, 2 chs. wide, course WSW., enter mesquite brush, brs.
               W. & E.
           Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,6,7 & 12, marked on
 80.00
             brass cap, T 24 S in N. half,
                               R 30 E S l in NW.,
                               R 31 E S 6 in NE.,
                               S 7 in SE., and
S 12 in SW. quad.;
              raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high W.of cor.
           Land, rolling, broken.
           Soil, 3rd rate, gravelly, sandy, loose, dry.
           Mesquite, greasewood, cacti, good grass.
                 on true line
           South, bet. secs. 7 & 12.

Over rolling, broken land, through dense mesquite brush.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for ‡ sec. cor., marked on brass cap,

‡ $ 12 in W., and
40.00
              S 7 in E. half; raise a mound of stone 2 ft.base, l_{\frac{1}{2}} ft.high W.of cor.
68.15
           Road, brs. NE. & SW.
           Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7,12,13 & 18, marked on
80.00
              brass cap, T 24 S in N. half,
R 30 E S 12 in NW., and
R 31 E S 7 in NE.,
                               S 18 in SE., and
                               S 13 in SW. quad.
              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, rolling.
           Soil, 2nd & 3rd rate, sandy, gravelly, loose.
           Mesquite brush, greasewood, cacti, good grass.
```

Chains.

20.00 29,34

on frue line
South, bet. secs. 13 & 18.
Over heavily rolling land.
Road, brs. NW. & SE.
Road, brs. NE. & SW.
Hay Hollow Wash, 2 chs. wide, course SW.
Intersect NE. Boundary Line of San Bernardino Grant. on true line

2.00 11.72

at a point whence,

the 2 mile cor. on said line brs. S.55°16'26" E. 15.45 chs. dist., which is a volcanic stone 14x12x6 ins. above ground, marked and witnessed as described by the Surveyor-General.

Set an iron post 3 ft. long, 3 ire. in diam. 24 ins. in the ground for closing cor. of frac. Ts. 24 S., Rs. 30 & 31 E., marked on brass cap,

CC en W. of centre, T 24 S in NE., and S B G in SW. half, R 30 E S 13 in NW., and

R 31 E 5 18 in NE. sectors;

raise a mound of stone 2 ft.base, la ft.high N. of cor., from which,

College peak brs. N.53°40'W.

Niggerhead, peak, crag on W. side, brs. S. 82.34 W. Wooded peak near N. end of Peloncillo Mts. brs. N. 32 41 E.

General Description. The East and West Boundaries of frac. T. 24 S., R. 31 E., run over a broken or rolling country, covered in general with mesquite brush, greasewood, sage brush, and cacti. Some of the land is suitable for farming purposes. There is no water or timber along the lines.

BOUNDARIES,

Frac T. 24 S., R. 31 E. Latitudes, departures, and closing errors.

		True		Latity	ades.	Depart	tures.
Line design	ated 1	pearing.	Dist.	N.	S.	E.	W.
0			Chs.	Chs.	Chs.	Chs.	Chs.
Internation	al	***					_
Boundary li	ne, .N.	89°25'W.	261.00	2.65			260.99
	✓ N.	89°26 W.	200-63	1.98			200.62
	N.	89°25#	0.80	0.01			0.80
E. Bdy. of Sa			***				
Bernardino	Grant. N.	OOLL'E.	44.02	44.02		0.14	
		95 *16 ' 26 %					19.2
West Bound		rth,					
North Bound		89°58! E.				481.44	
East Bound	~ ~	uth,	251 37		251.37	1	
Convergency	,		L			0.22	
	ጥ	tals,		267.6h	251.37	481.80	481.68
		, and a		251.37		481.68	
							,
		ror in La				L	
	Er:	ror in De	p.,			0.12	

Dec. 18, 1912.

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Chains.
                                                                                           FOOK
           Jan. 1, 1913.
           At 9h a.m., 1.m.t., at the cor. of Tps. 23 & 24 s., Rs. 29 & 30 E., recently established by June 1990 by
           William H. Elliott, & described by him in Book "G"

I set off '22° 58' S. on the decl. arc, and 31°22½ N. on
the lat. arc, and determine a meridian with the solar.
Thence I run, as per instructions, on a true line,
              War. 13°10' E.,
           South, bet. secs. 1 & 6, on range line.
           Over heavily rolling land, through dense greasewood, sage brush, catclaw, cacti, good grass.
Wire drift fence, brs. NE. & SW.
17.51
           Wash, 30 lks. wide, course SE., asc.grad.
Top of rise, brs. E. & M., desc. grad.
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
27.78
38.00
40.00
              the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4} S l in W., and S 6 in E. half;
              raise a mound of stone 2 ft.base, light thigh Woof core
           Draw, 2 chs. wide, course E., asc. grad. Top of rise, brs. E. & W., desc. grad.
45.00
52.00
59.00
           Enter draw, course E.
66.00
           Leave draw, asc. grad.
71.00
           Top of rise, brs. E. & W., desc. grad.
           Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,6,7 & 12, marked on brass cap, T 24 S in N. half,
80.00
                               R 29 E S l in NW.,
                               R 30 E S 6 in NE.,
              S 7 in SE., and
S 12 in SW. quad.;
raise a mound of stone 2 ft.base, la ft.high W. of cor.
           Land, broken, rolling.
          Soil, 2nd & 3rd rate, sandy, gravelly, loose, dry. Greasewood, mesquite brush, sage brush, cacti, good grass.
          south, bet. secs. 7 & 12.
              Over rolling land.
          Draw, 5 chs. wide, course ENE. Enter draw, course ESE. Road, brs. E. & W.
 2.50
29:00
31.27
40.00
          Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
              the ground for ‡ sec. cor., marked on brass cap,
          $ 7 in E. half;
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
41.81
          Wash, 50 lks. wide, course E.
          Leave draw.
Wash, 40 lks. wide, course ESE.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 7,12,13 & 18, marked on
44.00
68.94
80.00
            brass cap, T 24 S in N. half,
                               R 29 E S 12 in NW.,
R 30 E S 7 in NE.,
                               S 18 in SE., and
                               S-13 in SW. quad.;
           raise a mound of stone 2 ft.base, 1 thigh Woof cor.
          Land, rolling.
          Soil, 3rd rate, gravelly, sandy, loose.
          Sage brush, greasewood, cacti, mesquite, fair grass.
          Atothis cor., at noon, I set off-22059 s. on the decl.
            arc, and observe the sun on the meridian.
            The resulting lat. is 31,21' N.
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75.12 80.00

on true line South, bet. secs. 13 & 18.
Over rolling land. 40.00

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 13 in W., and S 18 in E. half;

raise a mound of stone 2 ft.base, lt ft.high W. of cor. Telephone line, brs. E. & W., Douglas to Slaughter Ranck. 50.85 61.00

Draw, 4 chs. wide, course ESE.

Road, brs. ESE. & WNW., main Road from Douglas to E.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 13,18,19 & 24, marked on

brass cap, T 24 S in N. half,
R 29 E S 13 in NW.,
R 30 E S 15 in NE.,
S 19 in SE., and
S 24 in SW. quad.;

raise a mound of stone 2 ft.base, la ft.high W.of cor. Land, rolling. Soil, 3rd rate, gravelly, dry. Greasewood, cacti, sage brush, mesquite, fair grass.

on true line South, bet. secs. 19 & 24.

Over heavily rolling land, dense greasewood & catclaw. Intersect International Boundary Line between the United States and Mexico at a point whence,
Mon. No. 79 on said line brs. West, 56.22 chs. dist., 5.20

which is an iron monument, as described by the Surveyor-General, properly marked.

Mon. No. 78 on said line brs. East, 241.23 chs. dist., which is an iron monument, as described by the

Surveyor-General, properly marked.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of drac. T. 24 S., Rs. 29 & 30 E., marked on brass cap,

CC, and MEX in S., and U S, and T 24 S, in N. half, R 29 E S 24 in NW., and R 30 E S 19 in NE. quad.;

dig pits 30x24x12 ins. crosswise on each line, E. & W. 4 ft., and N. of cor. 8 ft. dist., and raise a mound of earth 5 ft.base, 2 ft.high N. of cor. No bearings available.

Land, rolling. Soil, 3rd rate, gravelly, dry.

BOUNDARIES Fracl. T. 24 S., R. 30 E. Latitudes, departures, and closing errors.

Dist.	N.	S.	E.	W.
Q2-a		1	1	["
Chs.	Chs.	Chs.	Chs.	Chs.
184.55	105.13			151.68
162/20		-145.64		71.40
15.37		15.10	 	2.8
266.13	/			266.13
189.34		189-34		
-			Q.2I	
	3504 33	350.22	492.21	492.0
	3500 22			
	0:11	,		,
			0.04	
	266.18 245.20 4 92.00 189.34	266.18	266.18	189.34 189.34 492.00 189.34 189.34 21 350.33 350.22 492.21 492.07

Jan. 1, 1913.

Jesse B. Wnight
U. S. Surveyor.

2478

BOOK

2473 31 North Boundary, T. 24 S., R. 29 E. Chains. Jan. 2, 1913. At 8h a.m., 1.m.t., at the cor. of Tps. 23 & 24 S., Rs. 29 & 30 E., recently established by WHDEIIs the described in Book Gi, I set off .22 .53' S. on the decl. arc, and 31 22 2 N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions, West, on a random line, setting temp. cors. at intervals of 40 and 80 chs. At 5 miles, 79.36 chs. I find a stone corner 239 lks. S. of line, properly marked, with mound of stone.
I run N. & S. from this cor. for a distance of 40 chs.
each way, and fail to find any trace of any other
corners. There being evidently an error of closure which must be located, I find it necessary to retrace the frace East bdy. of frac. T. 24 S., R. 28 E. (See Book A) retracements. Jan. 2, 1913. Jan. 3, 1913. On this date having located the true cor. of Tps.

23 & 24 S., Rs. 28 & 29 E., and finding that the random line of the N. ody. of fac. Tp. 24 S., R. 29 E., prejected, falls 236 lks. S. of the true cor. of Tps. 23 & 24 S., Rs. 28 & 29 E., at a distance of 6 miles, 17.54 chs. Therefore, at this true cor., which is a granite stone 16x10x6 ins above ground, marked and witnessed as described by the Surveyor-General,

18.18

as per instructions, on a true line, s. 89°44' E., bet. secs. 6 & 31. Over mts. land, asc. grad. W. slope, stony land. The old cor. haretofore noted brs. S. 4.43 chs. dist., which is evidently an erroneous corner probably

32.40 57.54 set by some local surveyor, which I destroy.

Leave valley, brs. NNE. & SSW., asc. steep.

Set an iron post 3 ft. long, 1 in. in diam. 8 ins. in the ground, on bed-rock, in mound of stone for \(\frac{1}{4} \) sec. cor., marked on brass cap,

S 31 in N., and S 6 in S. half;

raise a mound of stone 2 ft. base, 12 ft. high N. of cor. Asc. grad.

59.00° 80.00

NNW. & SSE. Ridge, brs.

Granite bluff, 50 ft. high, desc. prec. over granite 81.50 ledges.

97.54

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5,6,31 & 32, marked on brass cap, T 23.S in N., T 24 S in S.,

and

R 29 E in W. half, S 31 in NW., S 32 in NE., S 5 in SE. and

6 in SW. quad.; S

raise a mound of stone 2 ft.base, lt ft.high W.of cor.

Land, mts., rough.

Soil, 3rd rate, stony, gravelly, dry.

Sparse mesquite, cacti, fair grass.

At this core, at noon, I set off 22048 s. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $31^{\circ}22\frac{1}{2}^{\prime}$ N.

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COT.
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North Boundary, T. 24 S. R. 29 E.
<u>4</u> 32
                 S. 89044 E. bet. secs. 5 & 32.
Chains.
                     Over mts. land, desc. prec.
      4.00
                 Desc. grad.
                Gulch, 30 lks. wide, course SE., asc. S. point of limestone ridge, brs. S. & N., desc. steep. Over rough, broken land.
   21.70
   27.00
    32.00
                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}{2} S 32 in N., and S 5 in S. half;
   40.00
                    raise a mound of stone 2 ft.base, 1 ft.high N.of cor.
                    No bearings available, pits impracticable.
                Gulch, 25 lks. wide, course S.,
    64.83
                Wash, 15 lks. wide, course S., asc. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4,5,32 & 33, marked on
    78.75
    80.00
                    brass cap, T 23 S in N.,
T 24 S in S., and
R 29 E in W. half,
                                        S 32 in NW.,
S 33 in NE.,
S 4 in SE., and
                                        S 5 in SW. quad.;
                    raise a mound of stone 2 ft.base, la ft.high W. of cor.
                Land, mts., broken. Soil, 3rd rate, gravelly, stony, dry.
                 Greasewood, cacti, fair grass.
                s. 89°44' E. bet. secs. 4 & 33.

Over mts. land, asc. steep.
                Spur, brs. S. & N., desc. steep.

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 N., and \( S \) 4 in S. half;
    28.00
    40.00
                    raise a mound of stone 2 ft.base, light.high N.of cor.
                 Granite ledge, 40 ft. high, brs. N. & S., desc.
    42.00
                Wire fence, brs. N. & S.

Head of gulch, course S., asc.

Spur, brs. S. & N., desc. steep.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3,4,33 & 34, marked on brass cap, T 23 S in N., T 24 S in S., and R 29 E, in W. half, $ 33 in NWS., S. 34 in NE.,

S. 3 in SEc., and 5 4 in SW. quad.;
    49.27
                 Wire fence, brs. N. & S.
    54.00
    58.00
    80.00
                    raise a mound of stone 2 ft.base, 12 ft.high W.of cor.
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No bearings available, pits impracticable.

Sage brush, cacti, greasewood, scrub oak, fair grass.

Land, mts., broken. Soil, 3rd rate, gravelly, stony, dry.

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Chains s. 89044: E. bet. secs. 3 & 34.

Over mts. land, desc. steep.
            Wash, 20 lks. wide, course NE., asc.
  6.00
           Top of low hill, brs. NE. & SW.

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 34 in N., and
\( S \) 3 in S. half;

raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high N. of cor.
 22.00
 40.00
              Desc. steep from cor.
           Wash, 20 lks. wide, course SE., asc. steep.
 43.80
           Ridge, brs. N. & S., desc. grad.

Set an iron post 3 ft. long, 3 ins. in diam. 10 ins. in the the ground, on bed-rock, in mound of stone for
 65.00
 80.00
             cor. of secs. 2,3,34 & 35, marked on brass cap, T 23 S in N.,
                               T 24 S in S., and R 29 E in W. half, S 34 in NW., S 35 in NE.,
                                    2 in SE., and
                                   3 in SW. quad.;
                               S
              raise a mound of stone 2 ft.base, la ft.high W.of cor.
           Land, mts., broken. Soil, 3rd rate, gravelly, stony.
           Scrub oak, cacti, fair grass.
           S. 89°44' E. bet. secs. 2 & 35.
Over mts. land. desc. grad. through dense scrub oak,
              mesquite and greasewood, cacti.
  7.96
           Dim road, brs. N. & S., foot of main slope, brs. N. & S.,
              thence desc. grad. over rolling 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 35 in N., and S 2 in S. half,
40.00
           raise a mound of stone 2 ft. base, 1\frac{1}{2} ft. high N. of corset an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,2,35 & 36, marked on
80.00
              brass cap, T 23 S in N.,
                               T 24 S in S., and
                               R 29 E in W. half,
                               S 35 in NW.,
S 36 in NE.,
                                   1 in SE., and
                               S
                               S 2 in SW. quad.;
              raise a mound of stone 2 ft. base, 1 ft. high W. of cor.
           Land, mts., rolling.
Soil, 3rd rate, gravelly, dry.
           Greasewood, mesquite brush, cacti, fair grass.
           S. 89°44' E.A bet. secs. 1 & 36.
              Over rolling land, desc. grad, through dense brush.
39.00
           Enter draw, course SE.
40.00
           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,
                            1 S 36 in N., and S 1 in S. half;
              raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high N.of cor.
51.05
           Wash, 35 lks. wide, course ESE.
62.00
           Leave draw, asc.
           Top of rise, on mesa, brs. ESE. & WNW., desc. grad.
To cor. of Tps. 23 & 24 S., Rs. 29 & 30 E., described in Book G
65.00
80.00
           Land, rolling.
           Soil, 3rd rate, gravelly, dry. Sage brush, greasewood, cacti, good grass, mesquite
              brush.
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Jan. 3, 1913.

~00H

For complete data, see Book A of retracements & Re-surveys.)

Latitudes, departures, and closing errors.

South Boundary, N.89°44'W. 497.54 2.36 477.82 477.82 16.14' 16.				True	► + Thiad • •	Latit	ides.	Depar	tures.
South Boundary, N.89°44'W. 497.54 2.36 477.82 477.82 16.14' 16.	-	Line d	esignated	pear.Tug.	· DIBO.	N.	S.	E.	W•
North Boundary, "					497.54	2:36			Chs. 497.54
S.89°45'E. 40.000.18 40.00 N.89°51'E. 39.840.10 39.84 East, 40.39 40.39 160.07 N.89°15'E. 160.082.10 160.07 Convergency, 480.00 480.00 Totals, 482.38 482.10 497.30 497.5		North:	Boundary,	East, S.88°42'E.	16.14 80.24		1.82	80.22	<i>/</i>
East, 40.39 40.39 160.07 East Boundary, South, 480.00 480.00 160.07 Totals, 482.38 482.10 497.30 497.5				S. 89°45'E.	40.00		0.18	40.00	/
Totals,		Toat	Roundary	East, N. 89°15'E.	40.39 ×	2.10	/	160.07	
								0• 44	
Error in Lat.,0.28 Error in Dep.,0.2				•		482.10			497.30

Boundaries of T. 24 S., R. 29 E.

Latitudes, Departures, and closing errors.

(other data in Book A of retracements and re-surveys)

and Subdivision of T. 24 S., R. 29 E., Book N.")

~		True	704 4	Latitu	ades.	Depart	tures.
Line d	esignated.	bearing.	Dist.	N.	8.	E.	W•
	ational ry Line.	West,	Chs.	Chs.	Chs.	Chs.	Chs. 56.22
	Ty lille.	N. 89°57'W. N. 89°55'W. N. 89°45'W. West,?	232.40	0.20 0.09 0.39			232.40 65.46 89.35 54.28
West	Boundary,	N. 0° 2'W. North,	80.14	80.1 4 166.28			0.05
East	Boundary, Boundary, gency,	S. 89°44' E. South, 4			2 • 36 245•20	497.54 0.22	
		Totals,		247.10	247.56 247.10	497.76 497.76	
	,	Error in La Error in D			-0.46	200 - 200 -	

Jan. 23, 1913.

Hilliam Hellist

U. S. Surveyors.

247E

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Chains.
                                                                                          300K
            Jan. 30, 1913.
           At 8h a.m., l.m.t., at the Std. cor. of Tps. 20 S., Rs.
              23 & 24 E., ar recently re-established by W. H. Elliott,
              and by him described, in Book "B'
           I set off'17°39½'S. on the decl. arc, and 31°38½'N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instructions,
           North, on a random line, setting temp. \frac{1}{4} and sec. cors. at intervals of 40 and 80 chs.
           At 6 miles, 2.44 chs., I intersect the South bdy. of T. 19 S., R. 23 E. at a point 28 lks. West of the
              cor. of Tps. 19 & 20 S., Rs. 23 & 24 E., which is a
              granite stone 30x14x12 ins., set in mound of stone,
              marked and witnessed as described by the Surveyor-
           General, whence I run,
S. 0° 2' W., on a true line, bet. secs. 1 & 6.
Over mts. land, asc.
Ridge, brs. E. & W.. desc.
  2.45
           Wire fence, brs. ESE. & WSW.
Set an iron post 3 ft. long, 1 in. in diam. 10 ins. in
3.85
42.44
              the ground, on bed-rock, in mound of stone for \frac{1}{4} sec.
              cor., marked on brass cap,
                           $ 1 in W., and
S 6 in E. half;
              raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high W.of cor.
              No bearings available, pits impracticable.
43.35
52.00
           Wash, 15 lks. wide, course WNW.
           Telephone line, Tombstone to Gleeson, brs. N. 86° E., &
              s. 86° W.
           Wash, 30 lks. wide, course W. Road, brs. E. & W.
54.85
55 • 75
 61.45
           Asc. grad.
 70.00
           Asc. steep granite spur.
           Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,6,7 & 12, marked on
 82.44
              brass cap, T 20 S in N. half,
                              R 23 E S l in NW.,
                              R 24 E S 6 in NE.,
             S 7 in SE., and S 12 in SW. quad.; raise a mound of stone 2 ft.base, l\frac{1}{2} ft.high W.of cor.
            No bearings available, pits impracticable.
           Land, mts., broken.
           Soil, 3rd rate, gravelly, stony, dry.
          Scattering greasewood, scrub mesquite, fair grass.

At this cor., at noon, I set off 17°38 'S. on the declarc, and observe the sun on the meridian.
              The resulting lat. is 31.43! N.
           S. 0° 2' W., on a true line, bet. secs. 7 & 12. Over mts. land, asc.
           Top of W. side of high rocky granite hill, brs. W. & E.,
  3.17
          desc. SW. slope.
Head of gulch, course SW.
 6.50
           Thence along W. slope of hill.
40.00
          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,
                           1 3 12 in W., and S 7 in E. half
             raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
41.45
          Wash, 20 lks. wide, course SSW., heads 10 chs. NE.
Same wash, course SE,, asc. grad.

Top of Ridge, brs. E. & W., near E. end, desc. grad.

Wash, 25 lks. wide, course SSW.

Top of Ridge, brs. E. & W., near E. end, desc. grad.

Wash, 25 lks. wide, course SSW.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7,12,13 & 18, marked on
             brass cap, T 20 S in N. half,
R 23 E S 12 in NW.,
                                           7 in NE.,
                             R 24 E S
                             S 18 in SE., and S 13 in SW. quad.;
             raise a mound of stone 2 ft, base, 12 ft. high W. of cor.
          Land mts. Soil, 3rd rate, stony. Scrub mesquite. Fair grass.
```

```
Chains.
             S. 0° 2' W., on a true line, bet. secs. 13 & 18. Over rolling, broken land, desc. grad.
  1.00
             Wash, 50 lks. wide, course SW., thence in same.
             Leave wash, runs SSW.
   6.00
 40.00
             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 13 in W., and S 18 in E. half;
             raise a mound of stone 2 ft.base, l\frac{1}{2} ft.high W.of corwash, 10 lks. wide, course W., turns SW. 10 chs. to W.,
 53.00
                asc. grad.
             Rocky ridge, brs. ESE. & NW., desc. grad.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13,18,19 & 24, marked on
 65.00
 80.00
                brass cap, T 20 S in N. half,
                                   R 23 E S 13 in NW.,
                                   R 24 E S 18 in NE.,
                                   S 19 in SE., and
                                   S 24 in SW. quad.;
                raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high W.of cor.
             Land, rolling, broken, mts.
                       3rd rate, gravelly, stony, dry, loose.
             Soil,
             Scrub mesquite, cacti, fair grass.
             S. 0° 2' W., on a true line, bet. secs. 19 & 24. Over rolling land, desc. grad., through dense scrub
                mesquite, greasewood, cacti.
             Wash, 20 lks. wide, course SW.

Leave dense brush, brs. NE. & SW.

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\frac{1}{4}$ in W., and

$S 19 in E. half;
 10.00
 23.00
 40.00
             raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high W.of cor. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19,24,25 & 30, marked on brass cap, T 20 S in N. half,
 80.00
                                   R 23 E S 24 in NW.,
                                   R 24 E S 19 in NE.,
                                      30 in SE., and
                8 25 in SW. quad.;
dig pits 18x18x12 ins. infeachesec. 5\frac{1}{2} ft.dist., and
raise a mound of earth 3\frac{1}{2}ft.base, 1\frac{1}{2} ft.high W.of cor.
             Land, rolling, broken. Soil, 3rd rate, stony, gravelly.
             Scrub mesquite, greasewood, cacti, fair grass.
             S. 0° 2' W., on a true line, bet. secs. 25 & 30.
                 Over gently rolling grassy land, desc. gently.
             Old road, brs. NE. & SW.
   1.00
             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 25 in W., and
 40.00
                                   S 30 in E. half;
             dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3\% ft. base, 1\frac{1}{2} ft. high W. of cor. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 80.00
                the ground for cor. of secs. 25,30,31 & 36, marked on
                brass cap, T 20 S in N. half,
R 23 E S 25 in NW.,
R 24 E S 30 in NE.,
                                   S 31 in SE., and
                S 36 in SW. quad.; raise a mound of stone 2 ft.base, l_{\overline{z}}^{\frac{1}{2}} ft.high W.of cor.
             Land, rolling.
             Soil, 3rd rate, gravelly, sandy, loose, dry.
             Sparse mesquite, greasewood, cacti, good grass.
```

Chains.

S. 0° 2' W., on a true line, bet. secs. 31 & 36.

Over gently undulating land, good native grass.

Road, brs. ESE. & WNW., Tombstone to Douglas.

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 36 in W., and

\(S \) 3l in E. half;

dig pits \(\frac{18x18x12c}{18x18x12c} \) ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth \(\frac{1}{2} \) ft. base, \(\frac{1}{2} \) ft. high W. of cor.

Tofcor. of Tps. 20 S., Rs. 23 & 24 E., and heretofore re-established by W.H.Elbert & described in Book B' Land, gently rolling.

Soil, 3rd rate, sandy, gravelly, loose, dry.

Sparse sage brush and cacti, fine native grass.

General Description.

The East Boundary of T. 20 S., R. 23 E. runs over a gently rolling country in the south, ascending gradually to rough foothills and ridges in the north.

There is no water or timber along or near

There is no water or timber along or near the line, nor any trace of settlement or occupation of the land.

Note.

Having retraced the East Boundary of T. 20 S., R. 22 E., on the 27th of Jan. 1913, in order to locate the Std. cor. of Tps. 20 S., Rs. 22 & 23 E., and to test the alinement and measurement of the said East Bdy., and having found that the alinement and measurement thereof practically agrees with the field notes as furnished by the Surveyor-General, there being in no case an error of more than 3 lks. per half mile, I consider it unnecessary to submit any field notes of the retracement of this line.

Jan. 30, 1913.

BOUNDARIES.

T. 20 S., R. 23 E. Latitudes, departures, and closing errors.

Line D	esignated.	True bearing.	Dist.	Latit:	udes.	Depart	tures.
West Bo North	d. Par. N. bundary, Boundary, bundary, gency,	N.89°44'W. North,——— East,——— S. 0° 2'W.— Totals,———	Chs. 479.80 480.00 479.56 482.44	Chs. 2.24 480.00	Chs. 482.44 482.44 482.24	Chs. 479.56 0.44	0 .28
	•	Error in Lat Error in Dep	5.,		0.20		0.08

Jan. 31, 1913.

Jasek Wright

U. S. Streeyor.

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Chains
                                                                                                                  BOOK
               Feb. 11, 1913.
               At 8h a.m., l.m.t., at the cor. of secs. 35 & 36, on the S. bdy. of Tp., which is an iron post 3 ins. in diam.,
                   1 ft. above ground, with brass cap, marked and witnessed
                   as described by the Surveyor General,
               I set off:14002 is. on the decl. arc, and 31044: N. on
                   the lat. arc, and determine a meridian with the solar, and knowing by calculation of surveyed lines, that
               this line projected west, will fall without limits in alinement at the cor. of Tps. 19 & 20 S., Rs. 23 & 24 E.; therefore, I rum, from the above described cor., West, on a true line, on S. bdy. of sec. 35.
                   Over heavily rolling land.
               Wash, 20 lks. wide, course S., asc.
    6.00
               Low ridge, brs. S. & N., desc.
  12.00
              Wash, 20 lks. wide, course S., asc.

Low ridge, brs. S. & N., desc.

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,

$\frac{1}{2}$ S 35 in N. half;

raise a mound of stone 2 ft.base, $\frac{1}{2}$ ft.high N.of cor.

Week 25 lkg. wide. course S. enter scrub mesquite.
  19.00
  30..00
 40.00
              Wash, 25 lks. wide, course S., enter scrub mesquite. Wash, 20 lks. wide, course S.
 54.60
 58.10
              Wash, 20 lks. wide, course SW.
 73.00
              Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 34 & 35, marked on
 80.00
                 brass cap, T 19 S R 24 E, in N. half, S 34 in NW., and S 35 in NE. quad.;
                 dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft.high N.of cor.
             Land, rolling, broken.
              Soil, 3rd rate, gravelly, dry.
              Scrub mesquite, catclaw, cacti, good grass.
              West, on a true line, on S. bdy. sec. 34.
                 Over heavily rolling, broken land.
15.70
             Wash, 30 lks. wide, course S.
            Road, brs. NNW. & SSE., Tombstone to Gleeson.

Wash, 40 lks. wide, course SW.

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 34 in N., half,

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and reige a mound of earth $\frac{1}{2}$ ft. hage. 1\frac{1}{2}$ ft. high N. of cor.
17.76
29.75
40.00
                 raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high N. of cor.
            Asc. grad. from cor. Asc. steep.
50.00
66.75
             Ridge, brs. NE. & SW.,
72.00
             Desc. steep, stony slope.
            Gulch, 20 lks. wide, course N., asc.

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 33 & 34, marked on brass cap, T 19 S R 24 E, in N. half,
79.70
80.00
                                    8 33 in NW., and
                S 34 in NE. quad.; raise a mound of stone 2 ft.base, 12 ft.high N.of cor.
            Land, rolling, broken, mts. Soil, 3rd rate, gravelly, stony, dry.
           Scattering mesquite, catclaw, cacti, good grass.
At this cor., at noon, I set off 14° S. on the decl. arc,
               and observe the sun on the meridian.
               The resulting lat. is 31044: N.
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Chains.
             West, on true line, on S. bdy. sec. 33.
                Over mts. land, asc. steep.
             Ridge, brs. N. & S.,
 15.10
             Desc. steep.
 16.00
            Desc. grad.
Wash, 20 lks. wide, course NW.
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 20.00
 29.75
 40.00
                the ground for & sec. cor., marked on brass cap,
                               4 S 33 in N., half;
                 raise a mound of stone 2 ft.base, la ft.high N.of cor.
             Along S. bank of wash to W.
 51.00
 70.00
             Top of N. side of hill, brs. N. & S., desc.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 32 & 33, marked on
brass cap, T 19 S R 24 E, in N. half,
S 32 in NW., and
  79.00
  80.00
                                   S 33 in NE. quad;
             raise a mound of stone 2 ft.base, l_{\frac{1}{2}} ft.high N.of cor. Land, rolling, mts. Soil, 3rd rate, gravelly, dry.
             Scrub mesquite, cacti, good grass.
             West, on true line, on S. bdy. sec. 32.
                 Over mts. land, desc. grad.
              Wash, 20 lks. wide, course SW.
  11.15
             Wash, 60 lks. wide, course SW., asc. set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
  26.00
  40..00
                 the ground for # sec. cor., marked on brass cap,

# 8 32 in N. half;
                 raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high N.of cor.
             Ridge, brs. NE. & SW., desc. Wash, 30 lks. wide, course SW., asc.
  54.00
  67.70
             Ridge, brs. NE. & SW., desc.
Wash, 20 lks. wide, course S., asc. grad.
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 31 & 32, marked on brass cap, T 19 S R 24 E, in N. half,
  73.00
  79.30
  80.00
                                    S 31 in NW., and
S 32 in NE. quad.;
                 raise a mound of stone 2 ft.base, la ft.high N.of cor.
              Land, mts., broken.
              Soil, 3rd rate, gravelly, stony, dry. Scrub oak, mesquite, greasewood, fair grass.
              West, on true line, on S. bdy. sec. 31.
              Over heavily rolling, broken land, asc. grad.

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,

\( \frac{1}{4} \) 31 in N. half;

raise a mound of stone 2 ft.base, 1\( \frac{1}{2} \) ft.high N.of cor.

Intersect East bdy. of T. 20 S., R. 23 E. ata point, whence, cor. of Tps. 19 & 20 S., Rs. 23 & 24 E. brs. N.C. 2 E. 3.36 chs. dist., which is a granite stone 14212x8 ins. showe
  40.00
  46.10
                  chs. dist., which is a granite stone 14x12x8 ins. above
                  ground, in mound of stone, marked and witnessed as
                  described by the Surveyor General.
                  I change the markings thereon to refer too Toosile 205. R.23E. only, by removing notches on E. of stone. At my intersection,
               Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
                  the ground for closing cor. of Tps. 19 & 20 S., R.24 E.
                  marked on brass cap,
                                    C Cs W. of centre,
R 24 E, in E., and
                                     T 19 S, 36, R 23 E, S 1, Th 20.8, in W. half,
                                     T 19 8, 8 31 in NE., and
              S 6, T 20 S in SE. quad.; raise a mound of stone 2 ft.base, la ft.high E. of cor. Land, mts., broken. Soil, 3rd rate, stony, gravelly.
               Scrub mesquite, catclaw, cacti, fair grass.
                                                         Feb. 11, 1913.
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Chains.
                                                                                                 BOOK
               Feb. 20, 1913.
              At 8h a.m., l.m.t., at the cor. of secs. 3,4,33 & 34, on the N. bdy. of the Tp., which is a limestone lox8x6
                  ins. above ground, marked and witnessed as described
                  by the Surveyor General,
               I set off: IO°56½'S. on the decl. arc, and 31°48½'N. on the lat. arc, and determine a meridian with the solar. Thence I run, as per instruction,
              West, on true line, bet. secs. 4 & 33.
                  Over mts. land, asc. along steep NE. slope, over limestone ledges.
              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 33 in N., and S 4 in S. half; raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high N. of cor. Summit of Dragoon Mountains, brs. NW. & SE.,
   40.00
  60.00
                 desc. steep, through scattering pinon & oak.
              Set an iron post 3 ft. long, 3 ins. in diam. 10 ins. in
  80.00
                 the ground, on bed-rock, in mound of stone for cor. of secs. 4,5,32 & 33, marked on brass cap,

T 18 S, in N.,
                                   T 19 S, in S., and
                                   R 24 E, in W. half;
                                  S 32 in NW.,
S 33 in NE.,
S 4 in SE., and
                                      5 in SW. quad.; from which,
                                   S
                A pinon tree 10 ins. diam. brs. N. 31°E. 162 lks. dist., marked T 18 S R 24 E S 33 B T.
                marked T 18 S R 24 E S 22 E ...
A pinon tree 8 ins. diam. brs. S. 27°E. 27 lks. dist.,
marked T 19 S R 24 E S 4 B T.

diam. brs. S. 35°W. 47 lks. dist.,
                A pinon tree 10 ins. diam.brs. S. 35°W. marked T 19 S R 24 E S 5 B T.
            A pinon tree 14 ins. diam. brs. N.651 W. 37 marked T 18 S R 24 E S 32 B T. Land, mts., rough. Soil, 3rd rate, stony, dry.
                                                                                    37 lks. dist.,
            Scrub oak, pinon, oak, cacti, fair grass.
At this cor., at noon, I set off 10054 S. on the decl.
                arc, and observe the sun on the meridian.
                The resulting lat. is 31,0481 N.
            West n bet. secs. 5 & 32.
               Over mts. land, desc. prec.
            Gulch, 20 lks. wide, course SW., near head, desc. steep.
  8.75
            Gulch, 50 lks. wide, course SE., asc. steep, rocky point. Top of rocky spure, near S. end, brs. NNW. & SSE.,
 23.00
26.00
            desc. steep.

Foot of main slope of mts., brs. NW. & SE., desc. grad.
32.00
            Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
40.00
               the ground for 1 sec. cor., marked on brass cap,
           † S 32 in N., and
S 5 in S. half;
raise a mound of stone 2 ft.base, 1½ ft.high N. of cor.
House of Chas. Hoyt, and James Hamilton brs. S. ½ mile.
46.00
           Wash, 12 lks. wide, course S. Wash, 20 lks. wide, course SSW. Wash, 20 lks. wide, course SSE., asc.
48.00
57.00
59.00
           Top of low ridge, brs. S. & N., desc. grad.
65.00
           Wash, 15 lks. wide, course S. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
71.00
80.00
              the ground for cor. of secs. 5,6,31 & 32, marked on brass cap, T 18 S in N., T 19 S in S., and
R 24 E, in W. half,
S 31 in NW., S 32 in NE.,
           S 5 in SE., and S 6 in SW. quad.; raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
          Land, mts., broken. Soil, 3rd rate, stony, gravelly, dry.
           Pinon, oak, scrub oak, cacti, fair grass.
```

on true line Chains. West, bet. secs. 6 & 31.

Over heavily rolling, broken land, desc. grad.

Wash, 20 lks. wide, course SSW., asc.

Top of hill, brs. S. & N., desc.

Wash, 20 lks. wide, course SW.

Set an iron post 3 ft. long, l in. in diam. 26 ins. in the ground for 1 sc. cor., marked on brass cap,

1 8 31 in N., and 8 6 in S. half;

raise a mound of stone 2 ft.base, lt ft.high N. of cor.

45.44

12.80

16.00

32.00 40.00

> Fall 3.30 chs. North of cor. of Tps. 18 & 19 S., Rs. & 24 E., which is a limestone 14x12x12 ins. above ground, marked and witnessed as described by the 18 & 19 S., Rs. 23 Surveyor General. I change the markings of this corto refer to Tps. 18 & 19 S., R. 23 E., only, and at my point 3.30 chs. to N.; I,

set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground, for cor. of Tps. 18 & 19 S., R. 24 E., marked on brass cap,

R 24 E, in E., and

R 23 E, T 18 S,S 36, S 1,T 19 S, in W. half,

T 18 S,S 31 in NE., and

6,T 19 S,in SE. quad.;

raise a mound of stone & ft.base, 2 ft.high E. of cor. Land, rolling, broken. Soil, 3rd rate, stony, dry. Scrub oak, catclaw, cacti, sage brush, poor grass.

General Description.
The frac. N. & S. bdrs. of T. 19 S., R. 24 E. run over rough, broken, mts. land, covered with scattering oak and pinan trees in the higher portions. To the NNW: of the Tp., the land is rough, and mts., rising to several thousand feet above the valleys, and covered with oak and pinon timber.

> T. 19 S., R. 24 E. Latitudes, departures, and closing errors.

Line designated.	True bearing	Dist.	Letitu N.	S.	Depart E.	W.
South Boundary West Boundary, North Boundary, East Boundary, Convergency,	West, North, East, South, Totals,	Chs. 446.10 486.66 445.44 485.52	Chs. 486.66 486.66 485.52 	Chs. 485.52 Error	0.41 445.85	

T. 20 S., R. 24 E. Tatitudea departures, and closing errors.

שנד	ittudes, de	har on es	o allu o.	TOP TITE	0110100	
Line Designated.	True bearing.	Dist.	Latita N.	ides. S.	Depart:	ures. W.
4th Std. Par. S. West Boundary, North Boundary, East Boundary,	N. 89°44'W. N. 0° 2'E. East / South,		479.08	1 1	Chs. 0.28 479.22 0.44	
Convergency,	Error in I	Totals:	481.28	•]	479.94	480.0 479.9

Feb. 20, 1913.

U. S. Surveyor.

BOOK 2478

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby of	certify upon honor that	t we assisted, to the bes	t of our skill and ability.
Jesse B. Wrigh		•	iods and in the capacities
stated opposite our several signatu	res, in surveying all tl	hose parts or portions of	Township Bdrs.
under Group Thy as followed bdrs. T.22 S., R.31 E.;	S. bdy. frac /L	.22 S.,R.32 E.;	E., W.& S. bdrs.
T.23 S.,R.31 E.; E.& W.			
24 S.,R.30 E.; N. bdy.			
and the S. & N. bdrs. T		•	
			·
of the Gila &Salt River Be	ise & Meridian, in	the State of Ari	zona,
which are represented in the forego			im and under his direc
tion; and that said surveyshate bee	• ****		
faithfully executed.	n, in all lospeous, to t	ne best of our knowled	ge and belief, well and
NAME.	PERIOD (OF SERVICE.	GAD Green
	Begun.	ENDED.	CAPACITY.
Frank J. M. Thery	Oct 10 191	E afril 11,191	2 Channe
Samuel Kennedy	Oct 13, 1912	Jon 27, 1919	Chamman
Edward Singer		Jan 25, 1913	
William Bird		Jan 4, 1913	
Charles Fast	Oct 19, 1912	nov 30, 1912.	Flagman axeman chamman
Just I Richardson	nov 8, 1912	Jon 27, 1912	Chamer
John J. Jurun	Jan 5, 1913	Jan 24, 1913	auer
Allen Thimpson	Feb 1, 1913	med 20,1913	There a
Jesse Tunle	Zer 1,1913.	apr 10, 1913	automos mon
South Lions.	Med 12-1913	apr 10,19/2	Flagman
	Mck 129 1913	Med 27 1913	Marridmon
C . 44	apr 4.1913	apr11,1912	an har san
A U	apr 4, 1913	apr 10,1913	Moundman
J	•		

Subscribed and certified to before me on the dates of the final service as shown above.

Jane B. Wright U. S. Surveyor.

6-2764

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INAL OATH OF UNITED STATES SURVEYOR.	
2At C	
act) RYIII	
BO I, Just D. Wright, U. S. Surveyor, do solemnly swear th	at, in pursuance \sim
of special instructions received from the U.S. Surveyor General for	luzona
of special instructions received from the U.S. Surveyor General for Structions of Section of Oct. 1911 the 27th day of Nov. 1912 bearing dates of the said the 13th day of Jan. 1913, 1914, I have well, faith	fully, and truly,
bearing datesor the said instructions the Manus	al of Surveying
in my own proper person, and in strict conformity with said instructions, the Manus	Townshin
Instructions, and the laws of the United States, surveyed all those parts or portions of	VE S. L. I. C.
Bdrs as follows: S. bdy. fract. T.215-R.32 E., E., W. & S. bdrs. T.225-R.31	E., S. Day. TIBO
T.225-P.32E. E. W. &5. bdrs. T.235-P.3/E., E. & W. bdrs. frac. 1.2	45-R.31E.,
W. bdy. frac. T. 245R. 30 E., N. bdy. frac. T. 245R. 29 E., E.bdy. T. 20	05-R23E.,
and S. and N. bors. T. 195R. 24 E.	
and S. and N. bdrs. T. 195R. 24 E. of the Gla	VSalk
of the Cold	1
Rule Bose & Meridian, in the State of arrange , which are	re represented in
the foregoing field notes as having been executed by me, and under my direction; a	nd I do further
solemnly swear that all the corners of said surveyshave been established and perpetuated	
ance with the Manual of Surveying Instructions, and the special written instructions of the	
General for drygona and in the specific manner described in the field	a notos, and that
the foregoing are the original field notes of such surveys	
A - B41-	1/1-
Trose 12. Wr	gu
	I/S. Surveyor.
Subscribed by said Lose Burell and sworn to before me)	
Substitute of the substitute o	
this day of 1913	
() las	landa da
Chaut O digi	
SURVETOR-GE	NERAL OF AREZONA
•	
APPROVAL.	
OFFICE OF THE UNITED STATES SURVEYOR GENE	ral,
OFFICE OF THE UNITED STATES SURVEYOR GENE	GRAL, 261914
OFFICE OF THE UNITED STATES SURVEYOR GENE	CRAL, 26 , 1914
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