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2706

BOOK 2706

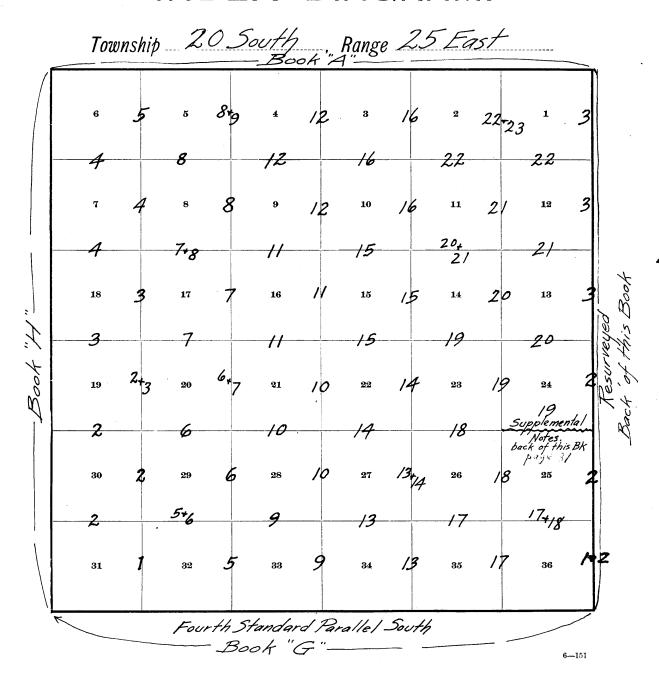
FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines of -
and
Supplemental Notes of Section Line between Secs 24&25
Resurvey of the East Boundary of
Township 20 South - Range 25 East
of the Gils & Soft Piver Base & Meridian,
In the State of Arizona
EXECUTED BY John F. Hesse &
Alfred N. Oliver
In the capacity of U.S. Surveyor, under instructions dated 12/22/22.121,
issued by the United States Surveyor General to govern surveys included
Group No. 5, which were approved by the Commissioner of the General Land Office, August 5, 1911, pursuant to authority contained in the Act
Congress dated March 4, 191/
Survey commenced Sept. 6, 191/ Survey completed April 4, 1913
Survey completed April 4.1913

BOOK 2706

INDEX DIAGRAM.



INDEX DIAGRAM.

Towns	hip		, Range		
6	. 5	4	8	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	51	22	23	24
30	29	28	27	26	25
, 31	32	83	34	35	36

Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

WE. N. Q. Harvey	and R. R. Bates
do solemnly swear that we will well and faithfully exec	
chain upon even and uneven ground, and plumb the tally	
we will report the true distances to all notable objects,	
measuring, to the best of our skill and ability, and in acc	cordance with instructions given us, in the survey of
the subdivision lines of \$2050	R. 25 E. and requires of the
E. bdy. of P205 R256.	1011
	AR Hawry, Chainman.
	R. L. Bate. Chainman
	-vv, Onationan.
Subscribed and sworn to before me this 1345	
day of September, 1911	
**************************************	John D. Hesse
REAL W	U. S. Prausitman
	·
WE, D. J. G. Gardner	and-
do solemnly swear that www will well and truly perform	rm the duties of moundmen in the establishment
of corners, according to the instructions given to	
the subdivision lines of P 20 5	R. 25 G. and resurvey of the
6. ldy of \$205 R 256.	
	X Moundman.
/ <u></u>	, Moundman.
Subscribed and sworn to before me this	•
day of September, 1911	O. S. D. Warne
M SEAT. M	
N SEAL (*)	U. S. Drausitman
We Seal Brand	
_	and
do solemnly swear that we will well and truly perform	andthe duties of axmen in the establishment of corners
do solemnly swear that we will well and truly perform and other duties, according to instructions given and to	the duties of axmen in the establishment of corners
do solemnly swear that we will well and truly perform and other duties, according to instructions given and to	the duties of axmen in the establishment of corners
do solemnly swear that we will well and truly perform and other duties, according to instructions given and to	the duties of axmen in the establishment of corners
do solemnly swear that will well and truly perform and other duties, according to instructions given me to the subdivision lines of Disos	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 256. and resurvey of the E. Barrello, Axman.
do solemnly swear that we will well and truly perform and other duties, according to instructions given me to the subdivision lines of 1205 E. ldy. of 1205 R. 25 E.	the duties of axmen in the establishment of corners
do solemnly swear that we will well and truly perform and other duties, according to instructions given ment to the subdivision lines of 1205 E. ldy. of 1205 R. 25 E.	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 256. and resurvey of the E. Barrello, Axman.
do solemnly swear that we will well and truly perform and other duties, according to instructions given ment to the subdivision lines of 1205 E. ldy. of 1205 R. 25 E.	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 256. and resurvey of the E. Barrello, Axman.
do solemnly swear that we will well and truly perform and other duties, according to instructions given and to	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 256. and resurvey of the E. Barrello, Axman.
do solemnly swear that we will well and truly perform and other duties, according to instructions given ment to the subdivision lines of 1205 E. ldy. of 1205 R. 25 E.	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 256. and resurvey of the E. Barrello, Axman.
do solemnly swear that we will well and truly perform and other duties, according to instructions given and to the subdivision lines of P.205 & E. Cody. of P.205 R. 25 & E. Subscribed and sworn to before me this day of September 1911	Land the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 25 G. and resurvey of the Ser Barrels, Axman. Axman. Axman.
do solemnly swear that we will well and truly perform and other duties, according to instructions given and to the subdivision lines of P.205 & E. Cody. of P.205 R. 25 & E. Subscribed and sworn to before me this day of September 1911	Land the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 25 G. and resurvey of the Ser Barrels, Axman. Axman. Axman.
do solemnly swear that we will well and truly perform and other duties, according to instructions given and to the subdivision lines of P. 205 & E. ldy. of P. 205 R. 25 & . Subscribed and sworn to before me this day of September 1911 I, Q. W. Mendre perform the duties of flagman according to instructions	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 25 G. and resurvey of the Barrellon, Axman. Axman. Axman. John P. Hesse U. S. Bransetman do solemnly swear that I will well and truly given me, to the best of my skill and ability, in the
do solemnly swear that we will well and truly perform and other duties, according to instructions given and to the subdivision lines of P. 205 & E. ldy. of P. 205 R. 25 & . Subscribed and sworn to before me this day of September 1911 I, Q. W. Mendre perform the duties of flagman according to instructions	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 25 G. and resurvey of the Barrellon, Axman. Axman. Axman. John P. Hesse U. S. Bransetman do solemnly swear that I will well and truly given me, to the best of my skill and ability, in the
do solemnly swear that we will well and truly perform and other duties, according to instructions given me to the subdivision lines of 255 E. ldy. of 25 S. R. 25 E. Subscribed and sworn to before me this day of September, 1911 I, G. W. Mendang perform the duties of flagman according to instructions survey of the subdivision lines of	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 25 G. and resurvey of the Barrellon, Axman. Axman. Axman. John P. Hesse U. S. Bransetman do solemnly swear that I will well and truly given me, to the best of my skill and ability, in the
do solemnly swear that we will well and truly perform and other duties, according to instructions given and to the subdivision lines of P. 205 & E. ldy. of P. 205 R. 25 & . Subscribed and sworn to before me this day of September 1911 I, Q. W. Mendre perform the duties of flagman according to instructions	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 25 G. and resurvey of the Barrellon, Axman. Axman. Axman. John P. Hesse U. S. Bransetman do solemnly swear that I will well and truly given me, to the best of my skill and ability, in the
do solemnly swear that we will well and truly perform and other duties, according to instructions given ment to the subdivision lines of Pi205 & E. ldy. of P205 & R. 25 & E. Subscribed and sworn to before me this	the duties of axmen in the establishment of corners the best of pay skill and ability, in the survey of R. 25 G. and resurvey of the G. Barres , Axman. Axman. Axman. John R. Hesse U. S. Pransitman , do solemnly swear that I will well and truly given me, to the best of my skill and ability, in the P20 S R. 25 G. and resurvey of
do solemnly swear that will well and truly perform and other duties, according to instructions given me to the subdivision lines of 9.205 E. ldy. of 9205 R. 25 E. Subscribed and sworn to before me this 13th day of Seal Seal Seal Seal Seal Seal Seal Seal	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 25 G. and resurvey of the Et Barrels, Axman. Axman. Axman. According to the best of my skill and ability, in the P20 S R. 25 G. and resurvey of the Augustus for the pays the
do solemnly swear that we will well and truly perform and other duties, according to instructions given ment to the subdivision lines of Pi205 & E. ldy. of P205 & R. 25 & E. Subscribed and sworn to before me this	the duties of axmen in the establishment of corners the best of payskill and ability, in the survey of R. 25 G. and resurvey of the Et Barrels, Axman. Axman. Axman. According to the best of my skill and ability, in the P20 S R. 25 G. and resurvey of the Augustus for the pays the
do solemnly swear that will well and truly perform and other duties, according to instructions given me to the subdivision lines of 9.205 E. ldy. of 9205 R. 25 E. Subscribed and sworn to before me this 13th day of Seal Seal Seal Seal Seal Seal Seal Seal	the duties of axmen in the establishment of corners the best of pay skill and ability, in the survey of R. 25 G. and resurvey of the G. Barres , Axman. Axman. Axman. John R. Hesse U. S. Pransitman , do solemnly swear that I will well and truly given me, to the best of my skill and ability, in the P20 S R. 25 G. and resurvey of

Subdivision of To. 20 S

Chains.

Survey commenced September 13, 1911 and executed with a W. and L.E. Gurley solar compass, not numbered. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of the arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and approved by the Super-

vising Surveyor.

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

by observations on Polaris, I proceed as follows:
At camp near the cor. Tps. 20 and 21 S., Rgs. 25 and 26
E., latitude 31°38½'N., longitude 109° 45'29"WI set off
31°38½'N. on the lat. arc; 3°58'N on the decl. arc
and at 5h.00m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my station.

At Shoum. p.m. by my watch, which has correct 1.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station.

September 13, 1911.

September 14: At 6h.30m. a.m., l.m.t., I lay off the azimuth of Polaris, 1° 22' to the west and mark the meridian thus determined, by cutting a small groove in the stone set September 13, on which the meridian coincides with the mark determined by the solar.

At 7h.00m. a.m., l.m.t., I set off 31° 382'N. on the lat arc; 3 · 1441/2' N. on the decl. arc and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observations.

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

The magnetic bearing of the true meridiah at 7h.15m. a. n., l.m.t., is $N/3^{\circ}/5^{\circ}N$ the angle thus determined m., 1.m.t., is N /3° /5' W

gives the mag. decl. 13° 15'E

I commence at the cor. of secs. 31 and 32 on the S. bdy
of Tp. 20 S. Rg. 25 E., recently re-established by me & described in Book G.

Thence I run N.0° 01'E. bet. secs. 31 and 32.

Over level land.

Cross wash 40 lks. wide, course S.E.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \(\frac{1}{2}\) sec. cor., marked on brass cap,\(\frac{1}{2}\)S31 in \(\text{W}\). and S32 in \(\text{E}\). half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raises a mound of earth $3\frac{1}{2}$ ft.

base, light. high, W. of cor. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked on brass cap, 1911;

T20SR25E in N. half; 830 in N.W.

S29 in N.E.

\$32 in S.E. and

S31 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{5}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level.

Soil, sandy loam, over 2 ft. deep; dry; medium texture; 1st rate.

No timber.

No undergrowth.

19.43 40.00

80.00

```
Subdivision of Township 20 South. Range 25 East.
  Chains
                      West on a random line, bet. secs.30 and 31.
                      Set temp. 4 sec.cor.
Intersect W.bdy.of Tp.37 lks.S.of cor.of secs.25,30,31
and 36,established by me Sept.12,1911,& described in Book "H"
  40.00
  80.10
                      Thence I run,
                    S.89°44'E.on a true line, bet.secs.30 and 31:
Over rolling land, through scattering brush.

Set an iron post 3 ft.long, lin. diam., 26 ins.in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap. $\frac{1}{4}$ S 30 in N and S 31 in S.half; dig pits 18x18x12 ins E.ahd W, of cor. 3 ft.dist., and raise a mound of earth 3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N.of cor.
                      Cross wash 20 lks.wide, course SE.
                      Cross road, bears M. and S.
The cor. of secs. 29, 30, 31 and 32, hereinbefore described.
  68.67
   80.10
                      Land, folling.
                       Soil, coarse gravel and rock, 3rd rate.
                      No timber. Undergrowth, greasewood, mesquite and catclaw.
                      N.0001'E.
                                                   bet. secs.29 and 30.
                       Over level land.
                     Set an iron post 3 ft long, 1 in. in diam., 26 ins. in the ground for 1 sec.cor., marked on brass cap 5 30 in W. and S 29 in E.half; dig pits 18x18x12 ins.N. and
   40.00
                                S.of cor.3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
                                base, la ft. high, W. of cor.
                     Cross wash 50 lks.wide, course SE.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor.of secs.19,20,29 and 30, marked on brass
   52.30
  80.00
                                cap,911; T 20 S R 25 E in N.half;
                                                S 19 in NW.,
S 20 in NE.,
                                                 S 29 in SE., and
                               S 30 in SW. quadrant; dig pits 18x18x12 ins.in each sec.5 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
                      Land, level.
                       Soil, sandy loam over 2 ft.deep, dry, medium texture; 1st
                                rate. No timber. No undergrowth. to have like At this cor. I set off 30382'N.on the decl.
                                arc, and observe the sun on the meridian at noon; the
                                resulting late is 31^{\circ} 40\frac{1}{2} N.
                      N.89° 44'W. on random line, bet. secs.19 and 30. Set temp, \(\frac{1}{4}\) sec.cor.

Intersect W.bdy.of Tp. 25 lks.N.of cor.of secs.19,24,25
   40.00
80.06
                                and 30, established by me Sept. 12, 1911, & described in Book "H"
                       Thence I run,
                     S.89°55'E. on true line bet. secs.19 and 30.
                      Over rolling land, through scattering brush.

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_{\sqrt{1}} \) \( \frac{1}{4} \) \( \frac{1}{4}
 40.03
   48.66
   63.63
 80.06
                       Land, level and rolling.
                                        rocky and worthless, 4th rate, except 31.40 chs.,
                       Soil.
                                which is sand v loam over 2 ft.deep; dry, medium texture,
                                1st rate.
                       No timber.
                       Undergrowth, mesquite and catclaw.
```

N.0°Ol'E. bet. secs.19 and 20.

Over level land, through dense brush.

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subdivision of Tp. 20 S. Rg. 25 E.
Chains.
                Set an iron post 3 ft. long, l in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap 1911 in W. and S20 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W. of cor. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked
40.00
80.00
                 on brass cap, 1911;
T20SR25E in N. half;
                 S18 in N.W.
                 S17 in N.E.
                 S20 in S.E. and
                Sl9 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
                Land, level.
                 Soil, sandy loam over 2 ft. deep; dry; medium texture;
                 1st rate.
                 No timber.
                 Undergrowth, mesquite and catclaw.
                                                                                             September 14, 1911.
                September 15% At 7h.00m. a.m., l.m.t., I set off 31° 41'N on the lat. arc; 3° 2/% N on the decl. arc and determe mine a meridian with the solar at the cor. of secs. 17,
                 18, 19 and 20, above described.
                             Thence I run
                 N.89° 55'W. on a random line bet. secs. 18 and 19.
                 Set temp: 4.sec;.cor. Intersect.W. bdy. of Tp. 18 lks. S. of cor. of secs. 13,
40.00
80.02
                 18, 19 and 24, established by me Sept. 12, 1911, & described in Book "H"
                              Thence I run
                 S.89° 47'E. on a true line bet. secs. 18 and 19.
over rolling land, through dense brush.

40.01 Setnan iron post 3 ft. long, l in. diam., 26 ins. in the ground for \( \frac{1}{2} \) sec. cor., marked on brass cap_\( \frac{1}{2} \) $\) 18 in N. and $\) and $\) 19 in $\)5. half; dig pits 18 x 18 x 12 ins, $\)E. and $\]
of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
                 base, 1\frac{1}{2} ft. high, N. of cor.
                 Cross road, bears N. and S.
 57.57
                 The cor. of secs. 17, 18, 19 and 20, hereinbefore described.
80.02
                 Land, rolling.
                 Soil, sandy loam mixed with rock and gravel, 2nd rate.
                 No timber.
                 Undergrowth, mesquite and catclaw.
                 N.0^{\circ} Ol'E. bet. secs. 17 and 18.
                 Over rolling land, through dense brush. Cross wash 30 lks. wide, course E. Cross wash 10 lks. wide, course E.
  4.50
 37.20
                Cross wash 10 lks. Wide, course E.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{19}{14}$S18 in W. and S17 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Cross road, bears N.W. and S.E.

Cross wash 15 lks. wide, course E.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked on brass cap 1916
 40.00
 55.11
 64.50
 80.00
                  brass cap,1911;
                  T20SR25E in N. half;
                 S7 in N.W.
                 S8 in N.E.
                 S17 in S.E. and
                 Sl8 in S.W. quadrant; raise a mound of etone 2 ft. base, 12 ft. high, W. of cor. Pits impracticable.
                 Land, rolling.
                 Soil, calcareous, 4th rate,
                 No timber.
                 Undergrowth, mesquite, catclaw and hackberry.
```

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1
             Subdivision of Township 20 South. Range 25
 Chains.
          N.89°47'W. on a random line, bet. secs. 7 and 18.
 40.00 Set temp. \frac{1}{4} sec.cor. 80.00 Intersect W.bdy.of Tp. 16 lks.S.of cor. of secs.7,12,13
                 and 18, established by me Sept. 12, 1911, & described in Book"H'
             Thence I run,
           S.89°40'E. on a true line, bet. secs.7 and 18. Over rolling land, through dense brush.
            Cross wash, 40 lks.wide, course 3. Cross wash, 20 lks.wide, course SE.
 29.48
            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 capable 5 7 in N. and S 18 in S.half; raise a mound of stone 2
40.00
            ft.base, log ft. high, N. of cor. Pits impracti Cross road, bears N. and S. Cross wash, 15 lks.wide, course S. The cor. of secs. 7,8,17 and 18, hereinbefore described.
                                                                        Pits impracticable.
 59.80
 60.40
 80.00
            Land, rolling.
             Soil, calcareous, 4th rate.
             No timber.
            Undergrowth, mesquite and catclaw.
                        3 10: At this cor. I set off 3°15½'N. on the
                  decl.arc, and observe the sun on the meridian at noon;
                  the resulting lat. is 31° /42'N.
             N.0001 E. bet. secs. 7 and 8.
            Over rolling land, through dense brush.
            Cross wash, 15 lks.wide, course 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 7
in W. and S 8 in E.half; dig pits 18x18x12 ins. N. and
S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.
base, $1\frac{1}{2}$ ft. high, W. of cor.
 40.00
            Cross wash, 20 lks.wide, course SE.
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground for cor.of secs. 5,6,7 and 8, marked on
 80.00
                  brass cap, 1911;
                     T 20 S R 25 E in N.half;
                     S 6 in NW.,
                     S 5 in NE.,
S 8 in SE., and
                     S 7 in SW.quadrant; dig pits 18x18x12 ins.in each sec.
                  5\frac{1}{2} ft.dist., and raise a mound of earth 4 ft.base, 2 ft.
                  high, W. of cor.
            Land, rolling
             Soil, calcareous, 4th rate.
             No timber.
            Undergrowth, mesquite and catclaw.
                                            N.89040'W.on a random line, bet. secs.6 and 7.
           Set temp. sec.cor.

Intersect W.bdy. of Tp. at cor. of secs. 1, 6, 7 and 12, established by merSept. 12, 1911, & described in Book "H", Thence I run, 5.89°40'E. on a true line, bet. secs. 6 and 7.

Over rolling land, through dense brush.
 40.00
            Cross wash, 20 lks. wide, course SE.
  8.64
            House, bears S.31°E.
Cross road, bears N.and S.
 28.24
 33.59
            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, 1911;
                        S 6 in N. and
                     \hat{S} 7 in S.half; raise a mound of stone 2 ft. base, 1\frac{1}{2}
                  ft.high, N.of cor. Pits impracticable.
            Cross road, bears N.and S.
Same house, bears 3.48°20'W.
Cross wash, 15 lks.wide, course SE.
The cor.of secs.5,6,7 and 8, hereinbefore described.
 49.62
 51.33
63.76
 79.94
             Land, rolling.
             Soil, calcareous, 4th rate.
                                     Undergrowth, mesquite.
             No timber.
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Subdivision of Township 20 South, Range 25 East.
                   N.0° Ol' E., bet.secs. 2 and 6.
Over rolling land, through dense brush.
Cross wash, 1.00 ch. wide course SE brush.
Chains.
22.40
                   Set san dron post lit. long, limitin diam., 26 ins. in the ground
40.00
                    Sis in E. Malf; dig pits 18X18X12 ins.N. and Sigf cor. 3 ft.
                            distriand raise amound dof earth 32 If the base of ft high,
                     of wor of cor.
                   Intersect W. side line, Tom Thumb mining claim, Surv . No . 2635,
62.16
                       22 'lks.N.19.42' W, of cor. No. 3 of said claim.
                    John Gleason's house bears N.26°55'E.
74.79
                    Cross road, brs.NW.and SE.

Intersect N.bdy.of Tp. 7.07 chs.W.of \( \frac{1}{4} \) sec.cor.of sec.32,

on S.bdy.of Tp.19 S., R.25 E, estab. by John F. Hesse, July 25,1911 & described
 78.00
 81.34
                    Set a granite rock 18x10x8 ins.,12 ins. in the ground in t
                            closing cor.of secs.5 and 6, marked
C C on S., with 5 grooves on E. and 1 groove on W.faces;
dig pits 24x18x12 ins. crosswise on each line, E.and W.
                    3 ft., and S.of stone 7 ft.dist., and raise a mound of earth 4 ft.base, 2 ft. high, S.of cor.

John Gleason's house, bears N, 78°25'E.
                    Land, rolling.
                    Soil, calcareous, 4th rate.
                    No timber.
                    Undergrowth, mesquite and catclaw.
                                                                                                                     September 15, 1911.
                    September 19: At 7h.00m.a.m., l.m.t., I set off 31638½'N. on the lat.arc; 1048½'N. on the decl.arc, and determine a meridian with the solar at the Standard cor of sees 32
                             and 33 on S.bdy.of T.20 S., R.25 E., re-established by me, Sept. 9,1911, nce I run,
                    Thence I run,
                    N.0001'E.bet. secs.32 and 33.
                     Over level land, through cacti.
                     Cross wash, 20 lks.wide, course E.
    3.90
 33.00 Cross wash, 40 lks.wide, course E.
40.00 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 32 in
\(\text{W. and S 33 in E.half; dig pits l8xl8xl2 ins. \(\text{M. and S}\).
                              of cor. 3 ft.dist., and raise a mound of earth 3\frac{1}{2} ft.
                     base, 1\frac{1}{2} ft. high, W.of cor.
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
  80.00
                              the ground for cor. of secs. 28,29,32 and 33, marked on
                             brass cap, 1911;
                                   T 20 S R 25 E in N .half;
                                   S 29 in NW.,
                                   S 28 in NE.,
                                   S 33 in SE., and
                             S 32 in SW. quadrant; dig pits 18x18x12 ins. in each sec: 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base 2 ft.high, W. of cor.
                     Land, level.
                     Soil, sandy loam over 2 ft. deep, dry, medium texture; 1st
                              rate.
                                                          Undergrowth, cacti.
                     No timber.
                     West, on a random line, bet.secs.29 and 32.
Set temp. 4 sec.cor.
Intersect N.and S.line, 39 lks.S.of cor.of secs.29,30,31
 40.00
  80.26
                              and 32, hereinbefore described.
                    Thence I run, S.89°43'E.on a true line, bet.secs.29 and 32.
                      Over level land.
                     Cross wash, 10 lks.wide, course SE.

Set an iron post 3 ft. long, lin. in diam., 26 ins.in the ground for \(\frac{1}{4}\) sec.cor., marked on brass cap \(\frac{1911}{4}\) S 29 in N. and S 32 in S. half; dig pits l8xl8xl2 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth 3\(\frac{1}{2}\) ft.
  25.26
  40.13
                              base, l ft. high, N. of cor.
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Subdivision of Tp. 20 S. Rg. 25 E. 6. Chains. Exercor. of secs. 28, 29, 32 and 33, hereinbefore described. 80.26 Land, level.
Soil, sandybloam over 2 ft. deep; dry; medium texture; 1st rate. No timber. No undergrowth. decl. arc and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ}, 39\frac{1}{2}$ 'N. N.0 01'E. bet. secs. 28 and 29. Over level land. 26.00 Cross wash 30 lks. wide, course E. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S29 in W. 40.00 and S28 in F. half; dig pite 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $l\frac{1}{8}$ ft. high, W. of cor. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked 80.00 on brass cap,1911; T20SR25E in N. half; \$20 in N.W. S21 in N.E. S28 in S.E. and S29 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in #4# each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate. No timber. No undergrowth. N.89° 43'W. om a random line bet. secs. 20 and 29. 40.00 Set temp. 1 sec. cor. Intersect N. and S. line 3 lks. N. of cor. of secs. 19, 80.16 20, 29 and 30, hereinbefore described. Thence I run S.89 44 E. on a true line bet. secs. 20 and 29. Over level land. 22.96 Cross wash 20 lks. wide, course S.E. Set an iron post 3 ft. long, l.in. diam., 26 ins. in the 40.08 ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S20 in N. and S29 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, 1\frac{1}{2} ft. high, N. of cor.

The cor. of secs. 20, 21, 28 and 29, herein before described. 80.16 Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture 1st rate. No timber. No undergrowth. September 19, 1911. September 20 At 7h.00m. a.m., l.m.t., I set off $31^{\circ}40\frac{1}{2}$ 'N on the lat. arc; /7/2 on the decl. arc and determine a meridian with the solar at the cor. of secs.20, 21, 28 and 29, hereinbefore described. Thence I run N.0° 01'E. bet. secs. 20 and 21. Over level land. Cross wash 40 lks. wide, course E. 38.50 Set an iron post 3 ft. long, 1 in. dism., 26 ins. in the 40.00 ground for $\frac{1}{4}$ sec. cor., marked on brass cap_A $\frac{1911}{4}$ S20 in W. and S21 in E. half; dig pits 18 x 19 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cof. Cross wash 20 lks. wide, course S.E. 55.15 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 16, 17 20 and 21, marked on 80.00

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Subdivision of Township 20 South. Range 25 East.
 Chains.
                   brass cap, 1911;
                       T 20 S R 25 E in N.half;
                       S 17 in NW.,
                       S 16 in NE.,
                       S 21 in SE., and
                   S 20 in SW. quadrant; dig pits 18x18x12 ins.in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft.base,
                   2 ft.high, W.of cor.
              Land, level.
              Soil, sandy loam over 2 ft.deep, dry, medium texture; 1st
                    rate.
                                     No undergrowth.
              No timber.
             N.89°44'W. on a random line, bet. secs.17 and 20. Set temp. \(\frac{1}{4}\) sec.cor.

Intersect N.and S. line 7 lks.S.of cor.of secs.17,18,19
 40.00
  80.21
                    and 20, hereinbefore described.
              Thence I run,
             3.89°41'E. on a true line, bet. secs.17 and 20. Over level land.
              Cross wash, 40 lks.wide, course SE.
  20.96,
40.10 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 17 in N. and S 20 in S.half; dig pits 18x18x12 ins E.and
              W.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N.of cor.

Cross wash, 8 lks.wide, course SE.

The cor.of secs.16,17,20 and 21, hereinbefore described.
  64.86
80.21
              Land, level .
              Soil, sandy loam, over 2 ft.deep, dry, medium texture; 1st
                    rate.
                                   No undergrowth.

At this cor. I set off 1°19½'N.on the
              No timber.
                    decl.arc, and observe the sun on the meridian at noon;
                     the resulting lat. is 31941'N.
               N.0°01'E.bet.secs.16 and 17.
               Over rolling land.
              Over rolling land.

Cross wash, 30 lks.wide, course SE.

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 \( \frac{1}{4} \) \( \frac{1}{4} \) S l7 in W. and S l6 in E.half; dig pits, l8xl8xl2 ins. N.and 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.

Cross wash, l5 lks.wide, course E.

Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for cor. of secs.8,9,16 and 17, marked on brass cap 1911:
 35.00
  40.00
   78.60
  80.00
                     brass cap, 1911;
                        T 20 S R 25 E in N.half;
                        S 8 in NW.,
                        S 9 in NE.
                        S 16 in SE., and S 17 in SW. quadrant; raise a mound of stone 2 ft.
                    base, 12 ft. high, W. of cor. Pits impracticable.
               Land, rolling.
               Soil, sandy loam, over 2 ft.deep, dry, medium texture;
                     1st rate.
                                       No undergrowth.
               No timber.
              N.89041'W. on a random line, bet. secs.8 and 17.

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

Intersect N.and S.line at cor.of secs. 7,8,17 and 18, here-
  40.00
 √80.30
                                                                                                -inbefore déscribed,
               Thence I run,
              S.89°41'E. on a true line, bet. secs.8 and 17.

Over rolling land, through dense cacti.

Set an iron post 3 ft.long, lin. in diam., 26 ins. in
 40.15
                     the ground for \frac{1}{4} sec.cor., marked on brass cap, \frac{1}{4} S 8 in
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	8.	Subdivision of mp. 20 S. Rg. 25 E.
	a1	
	Chains. 80.30	N. and Sl7 in S. half; raise a mound of stone 2 ft. base, la ft. high, N. of cor. Pits impracticable. The cor. of secs. 8, 9, 16 and 17, hereinbefore described. Land, rolling.
		Soil, calcareous, 4th rate. No timber.
		Undergrowth, cacti, mesquite and catclaw. September 20, 1911.
		September 21 At 7h.00m. a.m., l.m.t., I set off 31° 42'N on the lat. arc; / 2/2///on the decl. arc and determine a meridian with the splar at the cor. of secs. 8, 9, 16 and 17, hereinbefore described. Thence I run
	9.50 27.00 40.00	N.0°01'E. bet. secs. 8 and 9. Over rolling land through dense brush. Cross wash 10 lks. wide, course S.E. Cross wash 20 lks. wide, course S.E. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1914}{4}$ S8 in W. and S9 in E. half; dig pite 18 x 18 x 12 ins. N. and S. of
		cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
	80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 8 and 9, marked on brass cap, 1911;
		T20SR25E in N. half; S5 in N.W. S4 in N.E.
		S9 in S.E. and S8 in S.W. quadrant; dig pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{12}$ ft. dist., and raise a mound of earth 4 ft. base
	The state of the s	2 ft. high, W. of cor. Land, rolling.
		Soil, calcareous, 4th rate. No timber. Undergrowth, mesquite, catclaw, chico and cacti. Problem 12:At this cor. I set off 0° 56 W, on the decl. arc and observe the sunnon the meridian at noon; the resulting lat. is 31° 43'N:
i.	40.00	N.89 41'W. on a random line bet. secs. 5 and 8 Set temp. $\frac{1}{4}$ sec. cor.
	80.26	Intersect N. and S. line 3 lks. S. of cor. of secs. 5, 6, 7 and 8, hereinbefore described Thence I run
	35.26	S.89 40 E. on a true line bet. Secs. 5 and 8. Over rolling land, through dense brush, ascend. Top of ridge, bears N. and S., descend.
	40.13	Set an iron post 3 ft.long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1911}{4}$ S5 in N. and S8 in S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$
	74.26 80.26	ft. high, N. of cor. Pits impracticable., ascend. Top of ridge, bears N. and S., descend. The cor. of secs. 4, 5, 8 and 9, hereinbefore described.
		Land, rolling and hilly. Soil, calcareous, 4th rate. No timber.
	1.30 12.30 25.40 40.00	Undergrowth, mesquite and cacti. N.0° 01'E. bet secs. 4 and 5. Over rolling land, through dense brush. Cross wash 20 lks. wide, course S.E. Cross road, bears N.W. and S.E. Cross wash 15 lks. wide, course E. Set an iron post 3 ft. long, l in. diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap \(\frac{1}{14}\)S5 in W. and S4 in E. half; Dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3\(\frac{1}{2}\) ft.
		base, la ft. high, W. of cor.

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Subdivision of Tp. 20 S. Rg 25 E
Chains.
              Cross wash 50 lks. wide, course E., ascend.
 57.00
              Top of ridge, bears E. and W., descend.

Intersect N. bdy. of Tp. 6.39 chs. W. of 4 sec. cor. of sec. 33, on S. bdy. of Tp. 19 S. Rg. 25 E. estab by John F. Hesse, Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in
 68.00
 81.96
              the ground for closing cor. of secs. 4 and 5, marked on
              brass cap, 1911;
              CC S. of center.
T19SR25E, S32 and S33 in N. half;
S4 in S.E. and
              S5 in S.W. quadrant; dig pits 18 x 18 x 12 ins. cross-wise of each line, E. and W. 3 ft. and S. of cor. 7 ft.
              dist., and raise a mound of earth 4 ft. base, 2 ft. high
              S. of cor.
              Land, rolling and hilly.
              Soil, calcareous, 4th rate.
              No timber.
              Undergrowth, grease wodd, catclaw and mesquite.
                                                                             September 21, 1911
              September 22: At 7h.00m. a.m., l.m.t., Iset off 31° 38½ N on the lat. arc; 0° 39½ N on the decl. arc and determine a meridian with the solar at the Standard cor of secs. 33,
              and 34. on the S. bdy. of Tp. 20 S. Rg. 25 E., reestablished by Thence # run _____ Sept. 9.1911 & described in Book G.
              N.0°02'E. bet. secs. 33 and 34.
              Over level land.
   2.43
              Cross wash 50 lks. wide, course E.
              Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap_{\Lambda}^{9/1} \pm 333 in W.
 40.00
              and S34 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W. of cor.

Cross wash 12 lks. wide, course E.

Set an iron post 3 ft. long 2 ins. dism., 24 ins. in the ground for cor.
 48.55
 80.00
               ground for cor. of secs. 27, 28, 33 and 34, marked on
               brass cap, 1911;
              T20SR25E in N. half;
              S28 in N.W.
              S27 in N.E.
              S34 in S.E. and
S33 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
              sec. 5\frac{1}{3} ft. dist., and raise a mound of earth 4 ft. base
              2 ft. high, W. of cor.
              land, level.
              Soil, sandy loam over 2 ft. deep; dry; medium texture;
              1st rate.
              No timber.
              No undergrowth.
              1N.89:45 W marandom line bet. secs. 28 and 33.
              Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line at the . . . . . cor. of secs. 28,
  40.00
 80.12
               29, 32 and 33, hereinbefore described
                         Thence I run
               S.89°45'E. on a true line bet. secs. 28 and 33.
               Over level land, through scattering cacti. Cross wash 20 lks. wide, course S.E.
  25.87
              Set an iron post 3 ft. long, 1 in diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap_{\Lambda 4}^{0/1}S28 in H.
 40.06
              and S33 in S. half; dig pits 18 x 18 x 12 ins. F. and W. of cor. 3 ft. dist., and raise a mound of earth 3 ft. base, 1 ft. high, N. of cor.
The cor. of secs. 27, 28, 33 and 34, hereinbefore described.
 80.12
               Land, level.
               Soil, sandy loam over 2 ft. deep; dry; medium texture;
               1st rate.
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No stimber.

Undergrowth, cacti.

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Subdivision of Township 20 South, Range 25 East
Chains.
            N.0°02'E., bet.secs.27 and 28.
            Over level land, through scattering cacti.
           Cross wash, 10 lks.wide, course E. Cross wash, 20 lks.wide, course SE.
  4.50
20.25
32442
            Cross wash, 15 lks.wide, course E.
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 28 in W. and S 27 in E.half; dig pits 18x18x12 ins.N. and S.of cor. 3 ft.dist., and raise a mound of earth
           and S.of cor. 3 ft.dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W.of cor.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in ground for cor.of secs. 21,22, 27 and 28, marked on
80.00
                                                                                         24 ins. in the
                  brass cap, 1911;
                     T 20 S R 25 E in N.half;
                     S 21 in NW.,
S 22 in NE.,
                     S 27 in SE., and
                  S 28 in SW. quadrant; dig pits 18x18x12 ins.in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base,
                  2 ft.high, W.of cor.
            Land, level.
            Soil, sandy loam over 2 ft. deep, dry, medium texture; 1st
                  rate.
            No timber
            Undergrowth, cacti.
            September 20: At this cor. I set off 0°33'N.on the decl.
                  arc, and observe the sun on the meridian at noon; the
                  resulting lat. is 319401 N.
           N.89°45'W.on a random line, bet.secs.21 and 28.
           Set temp. \(\frac{1}{4}\) sec.cor.

Intersect N.and S. line at cor.of secs.20,21,28 and 29,
hereinbefore described
40.00
80.10
           S.89°45'E.on a true line, bet secs.21 and 28.
            Over level land.
            Cross wash, 20 lks.wide, course SE.

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

The cor. of secs .21,22,27 and 28, hereinbefore described.
27.30
40.05
80.10
            Land, level.
            Soil, sandy loam over 2 ft.deep, dry, medium texture; 1st
                  rate.
            No timber.
            No undergrowth.
           N.0002 E. bet. secs.21 and 22.
            Over level land.
            Cross wash, 30 lks.wide, course SE.

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(1) $\frac{1}{4}$ S 21 in W. and S 22 in E.half; dig pits 18x18x12 ins. N. and
25.40
40.00
                  S.of cor. 3 ft.dist., and raise a mound of earth 3\frac{1}{2}ft.
base, l\frac{1}{2} ft. high, W.of cor. 52.00 Cross wash, 50 lks.wide, course SE. 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
                  the ground for cor. of secs. 15, 16, 21 and 22, marked
                  on brass cap, 1911;
                     T 20 S R 25 E in N.half;
S 16 in NW.,
                     S 15 in NE.,
                      S 22 in SE., and
                  S 21 in SW. quadrant; dig pits 18x18x12 in in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base,
                  2 ft.high, W.of cor.
             Land, level.
             Soil, sandy loam over 2 ft deep, dry, medium texture; 1st
                  rate.
            No timber or underbrush.
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subdivision of Tp. 20 S. Rg. 25 E.
              N.89 45 W. on a random line bet. secs. 16 and 21.
             Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line at cor. of secs. 16, 17, 20 and
40.00
80.19
              21, hereinbefore described
                    Thence I run
             S.89 45 E, on a true line bet. secs. 16 and 21. Over level land.
             Cross wash 20 lks. wide, course S.E.
10.19
             Cross wash 30 lks. wide, course S.E. Cross wash 20 lks. wide, course S.E.
33.19
38.69
             Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap 15 16 in N. and S21 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
40.09党
             of cor. 3 ft. dist., and raise a mo nd of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N. of cor. Cross wash 20 lks. wide, course S.E. The cor. of secs. 15, 16, 21 and 22, hereinbefore described.
48.74
80.19
             Land, level.
             Soil, sandy loam over 2 ft. deep; (ry; medium texture;
             1st rate.
             No timber.
             No undergrowth.
                                                                    September 22, 1911.
             and 22, hereinbefore described
                           Thence I run
              N.0°02'E. bet. secs. 15 and 16.
              over level land.
             Set an iron post 3 ft. long, l in.diam., 26 ins.in the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4}S16 in W.
40.00
              and S15 in E. half; dig pits 18 x 18 x 12 ins. N. and S.
              of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
             base, l\frac{1}{2} ft. high, W. of cor.
Cross wash 30 lks. wide, course N.E.
              Cross wash 50 lks. wide, course E.
49.00
              Set an iron post 3 ft. lomg, 2 ins. diam., 24 ins. in the ground for cor. of secs., 9, 10, 15 and 16, marked on
80.00
              brass cap, 1911;
              T20SR25E in N. half;
              S9 in I.W.
              S10 in M.E.
              S15 in S.E. and
              S16 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
              sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
              Land, level.
              Soil, dandy loam over 2 ft. deep; dry; medium texture;
              1st rate.
              No timber.
              No undergrowth.
              N.89 45 W. on a random line bet. secs. 9 and 16.
Set temp. \(\frac{1}{4}\) sec. gor.
Intersect N. and S. line 11 ks.S.of cor. of secs. 8, 9, 16
 40.00
 80.26
              and 17, hereinbefore described,
                           Thence I run
             S.89 40 E. on a true line bet. secs. 9 and 16. Over level land.
             Over level land. Set an iron post 3 ft.long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass capath 189 in N. and S16 in S. half; dig pits 18 \times 18 \times 12 ibs. E. and W. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N. of cor. Cross wash 20 lks. wide, course S.E. Cross wash 30 lks. wide, course S.E. The cor. of secs. 9, 10, 15 and 16, hereinbefore described.
 40.13
 61.26
 80.26
              Land, level and rolling.
Soil, sandy loam mixed with rock, 3rd rate,
No timber or undergrowth.
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Subdivision of Township 20 South, Range 25 East
 Chains.
             N.0002'E., bet. secs.9 and 10.
Over level land, through scattering brush.
26.60 Cross wash, 15 lks.wide, course E.
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 capata S 9 in W. and S 10 in E.half; dig pits 18x18x12 ins. N.and S.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W.of cor.
51.00 Cross wash, 25 lks.wide, course E.
63.60 Cross road, brs.NW.and SE.
80.00 Set an iron post, 3 ft.long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 3,4,9 and 10, marked on brass
                    cap, 1911;
T 20 S R 25 E in N.half;
                       S 4 in NW.,
                       S 3 in NE.
                       S 10 in SE., and
                    S 9 in SW. quadrant; dig pits 18x18x12 ins. in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W.of cor.
              Land, level
              Soil, sandy loam, over 2 ft. deep, dry, medium texture; 1st
                    rate.
              No timber.
             Undergrowth, mesquite and cacti.

See to the last 13: At this cor. I set off 0.09 in. on the decl.
                    arc; and observe the sun on the meridian at noon; the resulting latifs 31943'N.
             N.89°40'W. on a random line, bet. secs.4 and 9.
             Set temp. \(\frac{1}{4}\) sec.cor.

Intersect N.and S. line 5 lks.N.of cor.of secs.4,5,8 and
 40.00
 80.32
                    9, hereinbefore described
              Thence I run,
             S.89°42'E. on a true line, bet. secs.4 and 9.
              Over level land, through scattering brush.
             Cross wash, 20 lks.wide, course SE.

Cross wash, 15 lks.wide, course SE.

Cross wash 10 lks.wide, course SE.

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 \( \frac{1911}{4} \) S 4
in N. and S 9 in S.half; dig pits 18x18x12 ins.E.and
   1.02
   4.32
 33.02
40.16
                    W.of cor. 3 ft.dist., and raise a mound of earth 3 ft.
              1\frac{1}{2} ft. high, N. of cor. Cross wash, 15 lks.wide, course SE.
 43.92
              Cross wash, 12 lks .wide, course SE. Cross road, brs.NW.and SE.
 67.92
 75.82
              The cor. of secs. 3, 4, 9 and 10, hereinbefore described
80.32
              Land, level.
              Soil, sandy loam, over 2 ft.deep; dry, medium texture; lst
                    rate.
              No timber.
              Undergrowth, mesquite, catclaw and cacti.
              N.0002'E., bet. secs.3 and 4.
              Over level land, through dense brush.
Cross road, brs. NW.and SE.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 13.00
 40.00
                    the ground for \frac{1}{4} sec. cor., marked on brass capally S 4 in W. and S 3 in E.half; dig pits 18x18x12 in S. N.
                    and S.of cor. 3 ft. dist., and raise a mound of earth
              3\frac{1}{2} ft.base, 1\frac{1}{2} ft. high, W.of cor. Cross road, brs. E.and W.
  53.00
              Cross wash, 20 lks.wide, course E.

Intersect N.bdy.of Tp., 6.30 chs.W.of \( \frac{1}{4} \) sec.cor.of sec.

34 on S.bdy.of T.19 S., R.25 E., established by John F. Hesse July 25,1911& cdescribed in Book A.

Set an iron post 3 ft.long, 2 ins.diam., 24 ins. in the ground for closing cor. of secs. 3 and 4, marked on
  82.54
                    brass cap, 1911;
                       C C,S of center,
T 19 S R 25 E,
S 33 and
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Subdivision of To.
                                                      20 S.
Chains.
            S34 in N. half;
            S3 in S.E. and
            S4 in S.W. quadrant; raise a mound of stone 2 ft. base,
            11 ft. high, S. of cor. Pits impracticable.
            Land, level.
            Soil, sandy loam mixed with rock, 3rd rate.
            No timber.
            Undergrowth, mesquite, catclaw and cacti.
                                                September 23, 1911.
            September 25% At 7h.00m a.m. l.m.t., I set off 31 38½'N.
            on the lat arc; 0°3/5. on the deck, arc and determine a meridian with the solar at the cor. of secs. 34 and 35 on the S. bdy. of Tp. 20 S. Rg. 25 E, reestablished by me Sept. 9.191.
                  Thence I run
            N.0°02'E. bet. secs. 34 and 35.
           O)ver level land
            Cross wash 16 lks. wide, course E.
  1.68
            Cross wash 15 lks. wide, course E
 22.92
            Cross wash 15 lks. wide, course E.
 30.00
            Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.00
            ground for \(\frac{1}{4}\) sec. cor., marked on brass cap \(\frac{1911}{4}\)S34 in W.
            and S35 in E. half; digpits 18 x18 x 12 ins. N. amd S.
            of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W. of cor.
            Cross wash 10 lks. wide, course E.
 53.60
            Cross wash 10 1ks wide, course E. Cross wash 12 1ks. wide, course E. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked on
 54.72
 67.60
 80.00
            brass cap,1911;
            T20SR25E in N. half;
            $27 in N.W.
            $26 in N.E.
$35 in S.E. and
            S34 in S.W. quadrant; dig pitsb18 x 18 x 12 ins. in each
            sec. 5\frac{1}{5} ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
            Land, level.
            Soil, sandy loam over 2 ft. deep; dry; medium texture;
            1st rate.
            No timber.
                 undergrowth.
            N.89 45 W.on a random line bet. secs. 27 and 34.
            Set temp. \(\frac{1}{4}\) sec. cor.

Intersect N. and S. line 5 lks. S. of sor. of $27, 28, 33, and 34, hereinbefore described.
 40.00
 80.24
                     Thence I run
            S.89 43 H. on a true line bet. secs. 27 and 34.
            Over level land, through scattering brush.
            Cross wash 50 lks . wide, courseSE.
  7.24
            Set an iron post 3 ft. long, l in.diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4}S27 in N. and S34 in S. hakf; dig pits 18 x 18 x 12 ins. E. and W.
 40.12
            of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
            base, 1\frac{1}{2} ft. high, N. of cor.
Cross wash 10 lks. wide, course SE.
The cor. of secs. 26, 27, 34 and 35, hereinbefore described.
 45.74
 80.24
            Land, level.
            Soil, sandy loam over 2 ft. deep; dry; medium texture;
            kst rate.
            No timber.
            Undergrowth, cacti.

Copyright S.; At his cor. I set off O 37% S. on the decl. arc and observe the sun on the meridian at noon;
            the resulting lat. is 31,39½ N.
            N.0^{\circ} 02'E. bet. secs. 26 and 27.
            Over level land.
            Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
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Subdivision of Township 20 South Range 25 East.
 Chains.
                     ground for \frac{1}{4} sec.cor., marked on brass cap 3 27 in W.
              and S 26 in E.half; dig pits 18x18x12 ins, N. and S. of cor. 3 ft.dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

Point for cor.falls in wash 30 lks.wide, course SE.
  80.00
 81.00 Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
                      the ground for witness cor. to cor of secs. 22,23,26 and
                     27, marked on brass cap,1911; W C, N.of center, T 20 S R 25 E in N.half;
                         S 22 in NW.,
S 23 in NE.,
S 26 in SE.,
                                                   and
                     S 27 in SW.quadrant; dig pits 18x18x12 ins. NW., NE., SE. and SW. of witness cor. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
               Land, level.
               Soil, sandy loam, over 2 ft.deep; dry, medium texture; lst
                     rate.
               No timber.
               No undergrowth.
             From the true point for the cor. of secs. 22,23,26 a 27, Irun, N.89°43'W.on a random line, bet. secs. 22 and 27.
               Set temp. 4 sec.cor. Intersect N. and S.line, 11 lks.N.of cor.of secs.21,22,27
  40.00
`80.26
                      and 28, hereinbefore described,
                Thence I run,
              Ns.89°48'E.on a true line, bet. secs.22 and 27.

Over level land, through scattering cacti.

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\(\frac{19}{4}\) S 22 in N. and S 27 in S.half; dig pits l8xl8xl2 ins. E.and
40.13
W.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N.of cor.

58.46 Cross wash, 20 lks.wide, course SE.

80.26 The true point for cor.of secs. 22,23,26 and 27.
                Land, level.
                Soil, sandy loam, over 2 ft. deep; dry, medium texture; lst
                      rate.
                No timber.
                Undergrowth, cacti.
                                                                                    September 25, 1911.
                September 27: At 7h.00m.a.m., l.m.t., I set off 31°40½ N. on the lat.arc; 1°17½ S.on the decl.arc, and determine a meridian with the solar at the cor. of secs. 22,23,26
                      and 27, here helper described,
                                                                                true point for
                Thence I run,
            N.0002'E. bet.secs.22 and 23.
              N.0002'E. bet.secs.22 and 23.

Over level land through scattering cactil.

Withess con to secs 22,23,26 & 27, hereinbefore described.

Cross wash, 60 lks.wide, course E.

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 22 in W. and S 23 in E.half; dig pits 18x18x12 ins.N. and S.of cor.3 ft.dist., and raise a mound of earth 3½ ft.base, 1½ ft. high, W.of cor.

Cross wash, 15 lks.wide, course E.

Set an iron post 3 ft. long, 2 ins. diam., 26 ins. in the ground for cor.of secs.14, 15, 22 and 23, marked on brass cap, 1911;
  1.00
40.00
  52.20
   80.00
                       brass cap,1911;
                           T 20 S R 25 E in N.half;
                           S 15 in NW.,
                           S 14 in NE.,
                           S 23 in SE., and
                           S 22 in SW.
                                                  quadrant; dig pits 18x18x12 ins. in
                       each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft
                       base, 2 ft.high, W.of cor.
                 Land, level.
                 Soil, sandy loam over 2 ft. deep; dry, medium texture; lst
                       rate.
                                       Undergrowth, cacti.
                No timber,
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Subdivision of Township 20 South, Range 25 East.
  15.
Chains
                       N.89°48'W. on a random line, bet. secs.15 and 22.
                        Set temp. 1 sec. or.
Intersect N.and S. line 3 lks.N.of cor.of secs.15,16,21
and 22, hereinbefore described,
  40.00
  80.24
                         Thence I run,
                                                                     a true line, bet. secs.15 and 22.
                       S.89049 E.on
 Over level land, through scattering cacti.

16.40 Cross wash, 8 lks.wide, course SE.

40.12 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, 1911;
$\frac{1}{4}$ S 15 in N., and S 22 in S.half; dig pits 18x18x12
ins. E.and W.of cor.3 ft dist., and raise a mound of
                        earth 3\frac{1}{2} ft.base, 1\frac{1}{2} ft. high, N.of cor. Cross wash, 8 lks.wide, course SE. The cor.of secs.14,15,22 and 23, hereinbefore described.
   62.30
80.24
                        Land, level.
                         Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                                  rate.
                        No timber. Undergrowth, cacti.

At this cor.I set off 1°-24½5 on the declearc, and observe the sun on the meridian at noon; the resulting lat.is 31°, 41'N.
                                                                  Undergrowth, cacti.
                       N.O.ºO2'E., bet. secs.14 and 15.

Over level land, through dense cacti.

Cross wash, 12 lks.wide, course NE.

Cross wash, 50 lks.wide, course SE.

Cross road, bears NW.and SE.

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{911}{4}\) \(\frac{1}{4}\) S 15 in W. and 3 l4 in E.half; dig pits l8xl8xl2 ins.

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

Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor.of secs.10,11,14 and 15, marked on
  12.40
  18.00
  38.40
  40.00
  80.00
                                    the ground for cor of secs.10,11,14 and 15, marked on
                                    brass cap, 1911;
                                          T 20 S R 25 E in H.half;
                                          S 10 in NW.,
                                         S 11 in NE.,
S 14 in SE., and
S 15 in SW. quadrant; dig pits 18x18x12 ins.in each
                                    \sec .5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base,
                                   2 ft.high, W.of cor.
                         Land, level.
                         Soil, sandy loam over 2 ft. deep; dry, medium texture; lst
                                    rate.
                          No timber.
                          Undergrowth, cacti.
                                                                                                                                                 September 27, 1911.
                         September 28: At 7h.00m.a.m., l.m.t., I set off 31°42'N. on the lat.arc; 1%1'S.on.the decl.arc, and determine a meridian with the solar at the cor.of secs.10,11,12
                                    and 15, hereinbefore described.
                          Thence I run,
N.89048 W. on a random line, bet. secs.10 and 15.

40.00 Set temp. 4 sec.cor.

80.20 Intersect N.and S. line 5 lks.N.of cor.of secs.9,10,15
                                    and 16, hereinbefore described,
                          Thence I run,
                      S.89°51'E. on a true line, bet. secs.10 and 15. Over level land, through dense cacti.
                         Cross wash, 30 lks.wide, course SE.

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 \( \frac{1}{4} \) 
   37.65
40.10
                        The cor. of secs. 10, 11, 14 and 15, here in before described.
   80.20
                          Land, level.
                          Soil, sandy loam, over 2 ft. deep; dry, medium texture;
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16.
                           Subdivision of Tp. 20 S. Rg. 25 E.
Chains.
             1st rate.
             No timber.
             Undergrowth, cacti.
             N.0^{\circ} 02'E. bet. secs. 10 and 11.
             Over level land, through dense brush.
Cross wash 91ks. wide, course S.E.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
24.40
40.00
             ground for \frac{1}{4} sec. cor., marked on brass capulation w. and Sll in E. half; dig pits 18 x 18 x 12 ins. N. and S.
             of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W. of cor. Cross wash 20 lks. wide, course S.E.
54.00
67.37
             Cross road, bears E. and W.
78.20
             Cross wash 15 lks. wide, course E.
             Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked on
80.00
             brass cap,1911;
             T20SR25E in N. half;
             S3 in N.W.
             S2 in N.E.
             Sll in S.E. and
             SlO ih S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
             sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base,
             2 ft. high, W. of cor.
             Land, level.
Soil, sandy loam over 2 ft. deep; dry; medium texture;
             1st rate.
             No timber.
             Undergrowth, mesquite and cacti.
                      ... At this cor. I set off / 47/2/5 on the
             decl. arc and observe the sun on the meridian at noon;
             the resulting lat. is 31° 43'N.
             N.89^{\circ}51^{\circ}W. on a random line bet. secs. 3 and 10
             Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line at cor. of secs. 3, 4, 9, and 10
40.00
80.16
                      thereinbefore described, Thence I run,
             S.89° 51'E. on a true line bet. secs. 3 and 10
             Over level land, through dense brush, cross road, bears H.W. and S.E. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass capally 33 in N. and SlO in S. half; dig pits 18 \times 18 \times 12 ihs. E. and W. of capally 35 in S. and W. of capally 35 in S. half; dig pits 18 \times 18 \times 12 ihs.
34.16
40.08
             cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.base,
             la ft. high, N. of cor.
The cor. of secs. 2, 3, 10 and 11, hereinbefore described.
80.16
             Land, level
            Soil, sandy loam over 2 ft. deep; dry; medium texture;
             1st rate.
             No timber.
             Undergrowth, mesquite and cacti.
             N.0^{\circ} 02'E. bet. secs. 2 and 3.
            Over level land, through dense brush.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor., marked on brass \(\max\) ap \(\frac{1}{4}\) $\frac{1}{4}$ S3 in W. and S2 in E. half; dig pits 18 x 18 x 12 ins. N and S. of cor
40.00
             3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2}
             ft. high, W. of cor.
             Cross road, bears N.W. and S.E.E. Cross road, bears E. and W. Cross road, bears N.W. and S.E.
41.00
58.51
59.15
             Cross wash 20 lks. wide, course E.

Intersect N. bdy. of Tp. 6.09 chs. W. of 1 sec. cor. of sec. 35, on S. bdy. of Tp. 19 S. Rg. 25 F., 25, 1911, Edescribed in Book A Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
67.20
82.80
             ground for closing cor. of secs. 2 and 3, marked on brass
             cap, 1911;
             CC S. of center.
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Subdivision of Tp. 20 S. Ro
Chains.
                      T19SR25E.,
                      S34 and
                      S35 in N. half;
                      S2 in S.E. and
                      S3 in S.W. quadrant; dig pits 24 x 18 x 12 ins. cross-
                      wise of each line, E. and W. 3 ft. and S. of cor. 7 ft.
                     dist., and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.
Land, level.
                      Soil, sandy loam over 2 ft. deep; dry; medium texture;
                      1 st. rate.
                      No timber.
                      Undergrowth, mesquite and cacti.
                                                                                                           September 28, 1911.
                     September 26, At 7h.00m./a.m. 1.m.t. Iset off 31° 38½'N. on the lat/arc; 0° 54%'S on the decl. ard and determine a meridian with the solar at the cor. of secs 35, and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 36 on the S. bdy. of Tp. 20'S. Rg. 25 E. Recestab. by me Sept. 968 and 968 a
                                 Thence I run
                      N.0^{\circ}03'E. bet. secs. 35 and 36.
                     Over level land, through dense brush Set an iron post 3 ft.long, 1 in.diam., 26 inm. In the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4}S35 in W. and S36 in E. half; dig pits 18 x 18 x 12 ins. N. and S.
  40.00
                      of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
                      base, l\frac{1}{2} ft. high, W. of cor. Set am iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked
880⊋00
                      on brass cap, 1911;
                      T20SR25E in N. half;
                      $26 in N.W.
$25 in N.E.
                      S36 in S.E. and
                      S35 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
                      sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base
                      2 ft. high, W. of cor. Land, level.
                      Soil, sandy loam over 2 ft. deep; dry; medium texture;
                      1st rate.
                      No timber.
                      Undergrowth, mesquite.
                    N.89.45 W.on a random line bet. secs. 26 and 35.
  40.00
                      Set temp. \frac{1}{4} sec. cor.
₹80.14
                      Intersect \tilde{N}. and S. line 12 lks. N. of cor. of secs. 26
                      27, 34 and 35, hereinbefore described
                                     Thence I run
                      S.89*50'E. on a true line bet. secs. 26 and 35.
                      Over level land,
                      Arizona and Eastern R.R., bears N.E. and S.W.
  39.64
                     Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1911}{4} S26 in N. and S35 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
40.07
                      of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
                     base, 1½ ft. high, N. of cor.
Enter dense brush.
The cor. of secs. 25, 26, 35 and 36, hereinbefore described.
  42.50
80114
                      Land, level.
                      Soil, sandy loam over 2 ft., deep; dry; medium texture;
                      1st rate.
                      No timber.
                      Undergrowth, mesquite.
                      decl. arc and observe the sun on the meridian at noon;
                      the resulting lat. is 31° /39½'N.
                   S.89.45 E.marandom line bet. secs. 25 and 36
  40.00
                      Set temp. \frac{1}{4} sec. cor.
                      Intersect E. bdy. of Tp. 18 1ks. 5.2-07 E. of cor. of secs. 25, 30, 31 and 36, re-established by me Sept. 13, 1911 & described in Notes of Resurvey
77.07
                          of E bdy of Tp 205-R 2BE, hereto attached, Thence I run,
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Subdivision of Township 20 South. Range 25 East.
 Chains.
           N.89°53'W. on a true line, bet.secs.25 and 36.
Over level land, through dense brush.
Fence, bears N. and S.
   0.91
 16.87 Cross road, bears N. and S.
37.07 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 capular S 25 in N. and S 36 in S.half; dig pits 18x18x12 ins.E. and
                  W.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2}
 ft.base, l\frac{1}{2} ft. high, N.of cor.

77.07 The cor.of secs.25,26,35 and 36, hereinbefore described.
            Land, level.
             Soil, sandy loam, over 2 ft.deep; dry, medium texture; lst
                  rate.
            No timber.
            Undergrowth, mesquite.
          N.0°03'E., bet. secs.25 and 26.

Over level land, through dense brush.

Cross wash,10 lks.wide, course E.

Point for cor.falls in wash, 30 lks.wide, course E.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for winesconto / seccorar., marked on brass cap. W C 1/2 in S.half; S 26 in NW. and S 25 in NE.quadrants; dig pits 18x18x12 ins. N.and S.of cor.3 ft.

dist. and raise a mound of earth 31/2 ft. base. 11/2 ft.
 10.33
 40.00
 42.00
                  dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft.
                  high, W. of cor.
            Cross wash, 8 lks.wide, course E. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in
 51.55
 80.00
                  the ground for cor. of secs. 23, 24, 25 and 26, marked on
                  brass cap, 1911;
                     T 20 S R 25 E in N. half; S 23 in NW.,
                     S 24 in NE.,
                     S 25 in SE., and
                  S 26 in SW. quadrant; dig pits 18x18x12 ins in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base
                  2 ft.high, W. of cor.
             Land, level.
             Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                  rate.
             No timber
             Undergrowth, mesquite.
                                                                    September 26, 1911.
             September 27: N.89°50'W.on a random line, bet.secs.23 and
             Set temp. 1/4 sec. cor.
Intersect N. and S. line, 5 lks.N. of true point for cor. of secs. 22, 23, 26 and 27, hereinbefore described,
 40.00
180.12
             Thence I run,
            S.89°52'E. on a true line, bet. secs.23 and 26.
             Over level land.
             Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., marked on brass cap \( \frac{10111}{4} \) S 23 in N. and S 26 in S.half; dig pits 18x18x12 ins. E. and
 40.06
             W.of cor. 3 ft.dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N.of cor. Arizona and Eastern R.R. bears NE.and SW.
  50.80
√80.12
             The cor. of secs. 23, 24, 25 and 26, hereinbefore described.
             Land, level.
             Soil, sandy loam over 2 ft. deep; dry, medium texture; lst
                   rate.
             No timber.
             No undergrowth.
                                                                    September 27, 1911.
             September 29 At 7h.00m.a.m., l.m.t., I set off 31°40½'N. on the lat.arc; 2°04½'S.on the decl.arc, and determine
                   a meridian with the solar at the cor. of secs. 23, 24, 25
                   and 26, hereinbefore described,
              Thence I run.
```

```
Subdivision of Township 20 South, Range 25 East.
  19.
                S.89°53'E. on a random line bet. secs.24 and 25.
Set temp. \(\frac{1}{4}\) sec.cor.
Intersect E.bdy.of Tp.28 lks.S.of cor.of secs.18,24,25
  40.00
  73.84
                and 30.
Thence I run,
                S..89 55 W. on a true line, bet. secs. 24 and 25.
               S. 89 55 W. on a true line, bet. secs. 24 and 25.

Over level land, through dense brush.

Cross road, bears NF. and SW.

Set an iron post 3 ft.long, lin. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec. cor., marked on brass cap \( \frac{1}{4} \) S 24 in N. and S 25 in S half; dig pits l8xl8xl2 ins E. and W. of cor. 3 ft. dist., and raise a mound of earth 3\( \frac{1}{2} \) ft. base, l\( \frac{1}{2} \) ft. high, N. of cor.

Coss wash, 20 lks. wide, course SE.

Cross road, bears N. and S.

The cor. of secs. 23, 24, 25 and 26.

Land. level.
   2.69
 33.84
 58.54¢ross
 73.34
  73.84
                Land, level.
                Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                      rate.
                No timber.
                Undergrowth, mesquite.
                N.0°03'E., bet. secs.23 and 24.
Over level land, through dense brush.
                Cross road, bears NW.and SE.
   9.55
               Cross wash, 40 lks.wide, course E.

Cross wash, 40 lks.wide, course E.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., marked on brass cap. \( \frac{1}{4} \) 3 23 in W. and S 24 in E.half; dig pits 18x18x12 ins. N. and
 18.40
 29.60
 40.00
               S.of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base; .1\frac{1}{2} ft. high, W.of cor,
Cross wash, 15 lks.wide, course E.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor.of secs.13,14,23 and 24, marked on
 70.00
 80.00
                      brass cap, 1911;
T 20 S R 25 E in N.half;
                          S 14 in NW.,
                          S 13 in NE.,
                      S 24 in SE., and
S 23 in SW. quadrant; dig pits 18x18x12 ins. in each
sec. 5½ ft. dist., and raise a mound of earth 4 ft.
                      base, 2 ft.high, W.of cor.
                Land, level.
                Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                      rate.
                No timber.
                Undergrowth, mesquite.

20 At this core I set off 2011'S.on the decl.
                      arc; and observe the sun on the meridian at noon; the
                      resulting lat.is 31%41'N.
                N.89°52'W.on a random line, bet. secs.14 and 23.
                Set temp. 4 sec.cor.
Intersect N.and S.line 7 lks.N.of cor.of secs.14,15,22
 40.00
₹80.06
                      and 23, hereinbefore described,
                Thence I run,
                S.89°55'E. on a true line, bet secs. 14 and 23.
               Over level land, through cacti.
Cross road, brs. N.and S.
Wash, 10.00 chs. wide, course SE.
Point for 4 sec.cor.falls in wash.
 23.25
 35.00
40.03
               Set an iron post 3 ft.long, 1 in. in diam., 26 ins.in the ground for witness cor.to \( \frac{1}{4} \) sec.cor.of secs.14 and 23, marked on brass cap/\( \mathbb{W} \) C \( \frac{1}{4} \) in W.half; S 14 in NW.and S 23 in SW. quadrant; dig pits 18x18x12 ins.E.and W. of cor.3 ft.dist., and raise a mound of earth 3\( \frac{1}{2} \) ft.
 47.00
                      base, 12 ft. high, N.of cor.
                Arizona and Eastern R.R., bears N.8°02'E. and S.8°02'W.
 62.00
                The cor. of secs. 13, 14, 23 and 24, hereinbefore described.
                Land, level.
                Soil, sandy loam over 2 ft. deep; dry, medium texture.
```

```
Subdivision of Tp. 20 S.
Chains.
              lsttratee.
              No timber.
              Undergrowth, mastalate
              on a true line East, bet. secs. 13 and 24.
              Over level land, through dense brush.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
  40.00
              ground for \frac{1}{4} sec. cor., markedcon brass cap \frac{1}{4}S13 in N. and S24 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
              of cor. 3 ft. dist., and raise a mound of earth 3 ft.
              base, la ft. high, N. of cor.

Intersect E. bdy. of Tp. 1.21 chs, S. 2007 b. of secs.

18 and 19, T. 205. R.26 E. re-established by me Sept. 13, 1911, & described in Notes of resurvey of Edg. of T.205. R.25E. here to Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in attached
v 70.88
              the ground for closing cor. of secs. 13 and 24, marked
              on brass cap, 1911;
              CC W. of center.
              T20S in N. and
              S18, S19, R26E in E. half;
              Sl3 in N.W. and
              S24, 1 R25E in S.W. quadrant; dig pits 24 x 18 x 12 ins.
             crosswise on each line, N. and S. 3 ft. and W. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft high, W. of cor. Land, level.
              Soil, sandy loam over 2 ft. deep; dry; medium texture;
              1st rate.
              No timber.
              Undergrowth, mesquite and catclaw.
                                                                  September 29, 1911.
              September 30 At 7h.00m. a.m. l.m.t., I set off 31° 41'N. on the lat. arc; 28/5 on the decl. arc and deter-
              mine a meridian with the solar at the cor. of secs. 13,
              14, 23 and 24, hereinbefore described
             Thence I run
N.0°03'E. bet secs. 13 and 14.
              Over level land, through dense brush.
              Cross road, bears E. and W.
 19.50
 26.40
              Cross wash 12 lks. wide, course E.
             Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4}S14 in W. and S13 in E. half; dig pits 18 x 18 x 12 ins. N and S.
 40.00
              of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, W. of cor. Cross wash 10 lks. wide, course E. Cross wash 10 lks. wide, course E.
  57.50
  67.50
              Set an iron post 3 ft. long, 2 ind. diam., 24 ins.in the ground for cor.of secs. 11, 12, 13 and 14, marked
  80.00
              on brass cap,1911;
              T20SR25E in N. half;
              Sll in N.W. Sl2 in N.E.
              S13 in S.E. and
              S14 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
              sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
              Land, level.
              Soil, sandy loam over 2 ft. deep; dry; medium texture;
              1st rate.
              No timber
              Undergrowth, mesquite.
              N.89° 55'W. on a gandom line bet. secs. 11 and 14.
              Set temp. \frac{1}{4} sec. cor.
  40.00
              Intersect N. and S. line 10 lks. N. of cor. of secs. 10,
  79.94
              11, 14 and 15, hereinbefore described
                      Thence I run
              S.89° 59'E. on a true line bet. secs. 11 and 14
              Over level land, through scattering brush. Cross road, bears N. and S.
  31.05
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Subdivision of Township 20 South, Range 25 East.
    Chains
                                       Cross road, bears N.and S.
   37.10
                                     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 \( \frac{9}{11} \) \( \frac{1}{4} \) Sc. ll in N. and S l4 in S.half; dig pits, \( 18x\) 18x12 ins. E.and W.of cor. 3 ft. dist., and raise a mound of earth \( 3\frac{1}{2} \) ft. base, \( 1\frac{1}{2} \) ft. high, N.of cor.

Cross wash, 8 lks.wide, course SE.

Arizona and Eastern R.R., bears NE.and SW.

The cor.of secs.ll, 12, 13 and 14, hereinbefore described.
39.97
    72.00
   73.05
79.94
                                       Land, level.
                                       Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                                                      rate.
                                      No timber. Undergrowth, mesquite and cacti.
                                                                                                              At this cor. I set off 2°34½'S.on the decl.
                                                      arc; and observe the sun on the meridian at noon; the resulting lat. is 31942' N.
                                    on atrue line
East, bet. secs. 12 and 13.

Over level land, through dense 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 $\frac{9}{1}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ in N. and S 13 in S.half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Intersect E. bdy. of Tp.1.85 chs. S. 2.07 E. of cor. of secs. 7 and 18, T.205.R.26E., re-established by me Sept. 13, 1911, $\frac{1}{2}$ described in Address of Resurvey of the second second
    40.00
   67.62
                                      Set an iron post 3 ft. long, 2 ins.diam., 24 ins. in the ground for closing cor.of secs. 12 and 13, marked on brass cap, 1911;
                                                                 C C
                                                                                      W of center,
                                                      T.20 S in N., and
S 7, S 18, R 26 E in E.half;
S 12 in NW., and
S 13, R 25 E in SW. quadrant; dig pits 24x18x12 ins.,
crosswise on each line, N.and S.3 ft., and W.of cor.7
ft.dist., and raise a mound of earth 4 ft.base, 2 ft.
high, W.of cor.
                                       Land, level.
                                       Soil, sandy loam, over 2 ft.deep; dry, medium texture; lst
                                                        rate.
                                       No timber; undergrowth, mesquite.
                                    N.0003'E, bet. secs 11 and 12.
                                       Over level land, through dense brush,
Set an iron post 3 ft.long, 1 in in diam., 26 ins. in
the ground for \(\frac{1}{4}\) sec.cor., marked on brass cap\(\frac{1}{4}\) \(\frac{1}{3}\) \(\fra
    40.00
                                       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.

Arizona and Eastern R.R., bears NE. and SW.
     48.63
                                       Cross wash, 20 lks wide, course E.
Cross road, bears E.and W.
Set an iron post 3 ft. long, 2 ins.diam., 24 ins. in the
ground for cor.of secs.1,2,11 and 12, marked on brass
    51.25
     55.45
     00.08
                                                         cap, 1911;
                                                                  T 20 S R 25 E in N.half;
                                                                 S 2 in NW.,
S 1 in NE.,
                                                                  S 12 in SE., and
                                                                  S 11 in SW. quadrant; dig pits 18x18x12 ins.in each
                                                        sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base, 2 ft.high, W.of cor.
                                        Land, level.
                                         Soil, sandy loam over 2 ft.deep; dry, medium texture; lst
                                                         rate.
                                        No timber. Undergrowth, mesquite.
                                                                                                                                                                                                                  September 30,1911.
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Subdivision of To. 20 S.
Chains
                 October 2; At 7h.00m. a.m. l.m.t., I set off 31° 43'N on the lat. arc; 3°/4' on the decl. arc and determine
                 a meridian with the solar at the cor. of secs. 1, 2, 11
                 and 12, hereinbefore described
                                Thence I run
                 11.89^{4} 59'W. on a random line bet. secs. 2 and 11.
40.00
                 Set temp. \frac{1}{4} sec. cor.
                  Intersect N. and S. line 7 lks. N. of cor. of secs. 2, 3
80.06
                  10 and 11, hereinbefore described
                         Thenwe I run
                 N.89 58'E. on a true line bet. secs. 2 and 11 Over level land, through dense brush.
                  Cross road, bears N. and S.
10.37
                 Set an iron post 3 ft. long, 1 in. duam., 26 ins. in, the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4} S2 in N. and S11 in S. half; dig pits 18 x 18 x 12 ins. F. and V. of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base, 1\frac{1}{2} ft. high, N. of cor. Cross road, bears N. and S. The cor. of secs. 1, 2, 11 and 12, hereinbefore described
40.03
50.10
80.06
                 Land, level.
                  Soil, sandy loam over 2 ft. deep; dry; medium texture;
                  1st rate.
                 No timber.
                  Undergrowth, mesquite and cacti.
                 East, bet. secs. 1 and 12. Over level land, through dense brush.
                 Cross Arizona and Eastern R.R., bears N.E. and S.W. Set an iron post 3 ft. long, l in. diam., 26 ins. in the ground for \frac{1}{4}, sec. cot., marked on brass cap \frac{9}{14}Sl in N. and Sl2 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
 4.22
40.00
                  of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
                  base, li ft. high, N. of cor.
Intersect F. bdy. of Tp. 2.29 chs. S.2 07 F. of cor. of secs.6 and 7, T.205, R.26E, reestablished by me Sept. 13, 1911 & described in Notes of Resurvey of E. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in
64.68
                  the ground for closing cor. of secs. 1 and 12, marked
                  on brass cap, 1911;
                  CC W. of center.
T20S in N. and
                  S6, S7, R26E in E. half;
                  Sl in N.W. and
                  S12, R25E in S.W. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, N. and S. 3 ft., and W. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft
                  high, W. of cor.
Land, level.
Soil, sandy loam over 2 ft. deep; dry; medium texture;
                  lst rate.
                  No timber.
                  Undergrowth, mesquite.
                                                                                       30215
                           REAL 2: At this cor. I set off
                                                                                                                on the
                  decl. arc and observe the sun on the meridian at noon;
                  the resulting lat. is 31°43'N.
                  N.0^{\circ}03'E. bet secs. 1 and 2.
                  Over level land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap_{\Lambda}^{1911}S2 in W. and Sl in E. half; dig pits 18 x 18 x 12 ins. N. and S.
40.00
                  of cor. 3 cft. dist., and raise a mound of earth 3\frac{1}{2} ft.
                  base, 1\frac{1}{2} ft. high, W. of cor.
Cross road, bears E. and W.
Cross road, bears E. and W.
Cross wash 10 lks. wide, course E.
 54.08
 65.00
75.62
                  Intersect N. bdy. of Tp. 6.09 chs. W. of 1 sec. cor. of sec. 36, 6n 86 bdy of Tp. 19 S. Rg 25 E. 25,1911, & described in Book A set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 1 and 2, marked on
82.76
                  brass cap, 1911;
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Subdivision of Tp. 20 S. Rg. 25 E,

Chains.

CC S. of center. T19SR25E. 1: 0 7 2 7 3 4 \$35 and S36 in N. half; Sl in S.E. and

S2 in S.W. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft. and S. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.

Land, level.

Soil, sandy loam over 2 ft. deep; dry; medium texture;

1st rate. No timber

Undergrowth, mesquite.

october 2, 1911.

U.S. Transitman.

General Description.

Afris M. C

This township is hilly in the northwestern part, the rest of the township is rolling and level sloping to the east. The soil generally is a sandy loam capable, with irrigation, of producing abundant crops. There is no water or timber in the township.

Tast Boundary of Tp. 20S. Rg. 25 E.

25

Chains.

Survey commenced September 6, 1911 and executed with a W. and L.E. Gurley solar compass, not numbered. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of the arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and approved by the Super-

vising Surveyor.

I examine the adjustments of the compass and find them correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined

by observations on Polaris, I proceed as follows;
At camp near the cor. of Tps. 19 and 20 S., Rgs. 25 and 26 E. latitude 31°44'N., longitude 109°45½W, I set off 31°44'N. on the lat. arc; 6°56%W on the decl. arc and at 5h.00m. p.m. l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my station.

At Sh. 32 m p m by my watch, which has correct l.m.t. I observe Polaris at easternelongation, in accordance with the Lanual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. W. of my station

September 6, 1911.

September 7 A At 6h.30m. s.m. l.m.t., I lay off the azimuth of Polaris, 1° 22' to the west and mark the meridian thus determined, by cutting a small groove in the stone set September 6, on which the meridian coincides with the mark determined by the solar.

At 7h.00m. a.m. l.m.t., I set off 31° 44'N. on the lat. arc; 6%23%'N on the decl. arc and markra point in the stone already set 5 chs. N. of my station; this mark coincides with the medidian established by the Polaris observations.

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

The magnetic bearing of the true meridian at 7h.15m.

a.m. l.m.t., is //3°/// the angle thus determined gives the mag. decl. /3°///

l. commence at the cor. of Tps. 19 and 20 S. Rgs, 25 and

26 E, reestablished July 22,1911, by John F. Hesse, U.S. Transitman, & described in Book A. Thence I run

25.2 05'E. on a random line on E. bdy. of Tp. 20 S. Rg. 25 E., finding no trace of cors. and at 483.54 Chs. intersect 4th Standard Par., N., 30 lks. W. of stand. cor. of Tps. 20 S., Rgs. 25 and 26 E., hereafter re-established by me,& described in Book "G".

September 7, 1911.

September 13:191 At 7h.00m. a.m. l.m.t., I set off 31°38½'N on the lat. arc; #00% Non the decl. arc and determine a meridian with the solar at the cor. of Tp.20 S. Rgs. 25 and 26 F., re-established by me Sept 9, 1911, & described in Book "G".

Thence I run N.2°07'W. on a true line on E. bdy. of Tp. 20 S. Rg. 25 E.marking and blazing true line and setting 1 and sec. cors. at their proper proportional part of the whole dist.

Bet: Bees: Binand 36

Over level land.

Cross road, bears T. and W.

Fence, bears F. and W,

Set an iron post 3 ft. long, 1 in. diam., 26 ind. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1911}{4}$ 336 in W. and S31 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

10.90 20.35

40.29

```
26
                                  Resurvey of East boundary of Township 20 South R.25 E
                                     Fence, bears E.and W.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor.of secs. 25,30, 31 and 36, marked
                   75.41
                  80.59
                                                  on brass cap, 1911;
                                                         T 20 S on N.half;
                                                        R 25 E, S 25 in NW.,
R 26 E, S 30 in NE.,
S 31 in SE., and
                                                 S 36 in SW.quadrant; dig pits 18x18x12 ins., in each \sec.5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
                                       Land, level.
                                        Soil white sandy loam, mixed with alkali, 3rd rate.
                                        No timber. No undergrowth.
                                        \mathbb{N}.2^{\circ}07^{\circ}W., bet secs. 25 and 30.
                                        Over level land, through dense brush.
                                       Fence bears NE. and SW.
                 40.29\frac{1}{2} 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(1) $\frac{1}{2}$ $\frac{1}{
                                                   brass cap, 1911;
T 20 S in N.half
See Supplemental With H. Section this of the second 1825, Subdivision of Jp. 20 S.-Pg. 25 6. here's 30 the St., and second pits lox18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base,
                                                 2 ft.high, W.of cor.
                                        Land, level.
                                        Soil, sandy loam, over 2 ft.deep; dry, medium texture; lst
                                                 rate.
                                        No timber.
                                       Undergrowth, mesquite.
                                        N.2° 07'W. bet. secs.19 and 24.
                                      Over level land, through dense brush. Cross road, brs. NE.and SW. Cross same road, brs. NW.and SE.
                    5.36
                 19.99
                24.26 Cross wash, 7 lks.wide, course E.
25.11 Cross same road, bears NE.and SW.
40.29z 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 19 in

E. half; 1 10 in 11.21; dig pits 18x18x12 ins.N.and

S.of cor. 3 ft.dist., and raise a mound of earth 3\( \frac{1}{2} \) ft.

base, 1\( \frac{1}{2} \) ft. high, E.of cor.
                                       Cross wash, 20 lks.wide, course E. Cross road, brs. E.and W. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
                  70.99
                  79.39
                 80.59
                                                  ground for cor. of secs. 18, and, 19, 7205, R26E, marked on brass
                                                  cap,1911;
T 20 S in N., and,
513,524 R25E, in W. half,
                                                        S 18 in NE and in M.
                                                 S 19, R26 Elin, SE. quad.,
S 24 in ST. quadrant; dig pits 18x18x12 ins. NE.&SER
com. 5½ ft. dist., and raise a mound of earth 4 ft. base,
                                                 2 ft.high, E. of cor.
                                        Land, level
                                        Soil, sandy loam, over 2 ft.deep; dry, medium texture; 1st
                                                  rate.
                                       No timber. Undergrowth, mesquite.

Department and: At this cor. I set off 40012 N.on the decl.
                                                arc; and observe the sun on the meridian at noon;
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Resur
                                                                                                         \mathbf{Z}^{r}
                       Fast Boundary of To. 29 S.
Chains.
             the resulting lat. is 31°41'N.
            M.2°07'W. bet. secs. 13 and 18.
           Over level land, through dense brush. Set an iron post 3 ft.long, 1 in. diam., 26 ins. in the ground for 1 sec. cor., marked on brass cap, 1518 in E. half; dig pits 18 x 18 x 12 ins. N. and S.
 40.29克
            of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. abase, 1\frac{1}{2} ft. high, E. of cor. Set an iron post 3 ft.long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, and 18,7205.R2bE., marked on
 80.59
            brass cap, 1911;
            T20s in N., and
            5:12,513 R25E, in:W. half,
             57 in NE., and
            S18, R26E in SE quadrant;
          cor. 5\frac{1}{2} ft/dist., and raise a mound of earth 4 ft.base 2 ft. high, f. of cor. Land, level.
                                                dig pits 18 x 18 x 12 ins. NE. & SE. of
            Soil, sandy loam over 2 ft. deep; dry; medium texture;
            1st rate.
            No timber.
            Undergrowth, mesquite,
            N.2°0%'W. bet. secs. 7 and 12.
            Over level land, through dense brush.
            Cross road, bears E. and W.
 11.56
            Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap, \(\frac{1}{4}\) S.7 in E. half; \(\frac{1}{10}\) in \(\frac{1}{10}\) dig pits 18 x 18 x 12 ins. N. and S.
 40.29封
             of cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
            base, 1\frac{1}{2} ft. high, E. of cor.
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 62,7,7.205 R26E. , marked on
 80.59
            brass cap, 1911;
            T20S in N. and
            5:1,5:1,2 R25E, in Wihalf,
            56 in, NE., and ...
             57 R 26 E in,
                           SE.quadrant; dig pits 18 x 18 x 12 ins. NE.& SE. of
             cor. 5\frac{1}{2} ft. dist., and raise a mound of earth 3 ft. base
            2 ft. high, E. of cor. Jand, level.
            Soil, sandy loam over 2 ft. deep; dry; medium texture;
            1st rate.
            No timber.
            Undergrowth, mesquite.
            N.2°07'W bet. secs. 1 and 6.
            Over level land, through dense brush.
            Cross road, bears E. and W. Cross road, bears E. and W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
  1.46
 20.91
 40.291
             ground for } sec. cot., marked on brass cap 156 in E. half? dig pits 18 x 18 x 12 ins. N. and S. of
             cor. 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base
            1½ ft. high, E. of cor.
The cor. of Tps. 19 and 20 S., Rgs. 25 and 26 E., re-established July 22, 1911, by John F. Hesse, U.S. Transitman, & described in Book "A".
 80.59
            Land level. Soil, sandy loam over 2 ft. deep; dry; medium texture;
             1st rate.
            No timber.
                                Affud M. Chini September 13, 1911.
            Undergrowth, mesquite.
                                                                     U.S. Transitman.
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UNITED STATES TRANSITMAN FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed	$_{\rm d,hy}$ Q_{o}	m 4. Hesse	-ana
all of the Market of the market and compression			
Alfred M. Chon, United States De	puty Surveyor,	to assist in running	g, measuring, and
marking the lines and corners described in the foregon	ing field notes o	f the survey of	e suldivisio
lines of P20 S R. 25 6. and res	unvey of to	h G. Vdy. of	71200 R 25C
showing the respective capacities in which they acted	::		
	N. Q.	Harvey	Chainman
	0 2		, Chanman.
·	Q. L.	Bates	, Chainman.
	Q. 9.	Gardner	Moundman
			, mountainain.
		***************************************	, Moundman.
	G. 0.	Parnes	Axman.
	· 		\dots , $Axman$.
	Q. U). Hendring	€
FINIAL CATH OF			····, ···· ··· · · · · · · · · · · · ·
FINAL OATH OF		Ā.	00000
We hereby certify that we assisted	w 4! Hes	se and liffre	& M. Olsock
•		10	
		Uh associtanas	
those parts or portions of the the suldivis	ion lines	of 1205 R.	25 6. and
resurvey of the 6. bdy of P20	S R. 25 C		
·			
		of t	he Gila and
6010: 0 t			
falt River meridian, Persitory	of Using	whice	h are represented
in the foregoing field notes as having been surveyed b	y him and unde	r his direction; and	l that said survey
has been in all respects, to the best of our knowledge	ge and belief, we	ell and faithfully s	urveyed, and the
corner monuments established, according to the inst	tructions furnis	hed by the United	States Surveyor
General for Angona			
	11RA	4 4 6	
	7/1/40	WEY_	, Chainman.
<i>A</i>	P. L.	Bates	, Chainman.
	PH		/
· X,		any	, Moundman.
			, Moundman.
	e 10 -		, == 3.00.0000.
	I . VO O	ines	\dots , $Axman$.
			, Axman.
		1	
	awy	many	\dots , $Flagman$.
	••		
Subscribed and sworn to before me this 3 nd			
	_		
day of October, 1911	Qo.	hu 4. H	sse
OOOOOO O SEAL O		hu 4.) He H. S. Dan	
ထိုမှုတ်မှုတ်မှုတ်	1	1. 11 /200	retire a

TRANSITMAN FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

1 allred M. Where	Inited States Januaryan do
I, Oliver solemnly swear that, in pursuance of a contract receive	ved from Frank S. Ingalls
United States Surveyor General for Origo	na for Group 5 , bearing date of the
8th day of July All and 5th day of august,	19//, I have well, faithfully, and truly, in my own
proper person, and in strict conformity with the ins	tructions furnished by the United States Surveyor
General for Chagora, the Ma	anual of Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions of	the subdivision lines of
P 20 S R. 25 6: and resurvey	of the 6 ldy of 1205 R. 25 G.
	0:0
0 11 0 ' L	of the Gila and
Salt River meridian, in the Persitory	,
foregoing field notes as having been surveyed by me,	
swear that all the corners of said survey have been es	
the Manual of Surveying Instructions, and the special	
General for and in the s	
the foregoing are the original field notes of such surv	7ey.
	all I de Mic
· · · · · · · · · · · · · · · · · · ·	alfred M. Oliss
	United States Peputy Surveyor.
an in a Chal M China	Transiturar
Subscribed by said this 2 nd day of luguet, a	thd sworn to before me
this and day of Juguet	, 19/2
	Chank I mades
OCOCOC O SEAL O	CHRYEVOD GENERAL OF ARTINNA
OCCOOO O SEAL O OCCOOO	SURVEYOR-BENERAL OF ARFZONA
0000000 0 SEAL 0 0000000	SURVEYOR-BENERAL OF ARFZONA
APPRO	SURVEYOR-SENERAL OF ARTZONA
OFFICE OF THE UNITED STA	
OFFICE OF THE UNITED STA	ATES SURVEYOR GENERAL,
OFFICE OF THE UNITED STA	ATES SURVEYOR GENERAL,
OFFICE OF THE UNITED STA	
OFFICE OF THE UNITED STA	Thoenix Arig., 19/4
OFFICE OF THE UNITED STA	Thoenix Arig., 19/4
OFFICE OF THE UNITED STA	Thornix Arig., 19/4 S. P. 256 and
OFFICE OF THE UNITED STA	Shoenix Arig 19/4 Shoenix Arig 19/4 Shoenix and
OFFICE OF THE UNITED STA	Thoenix Arig., 19/4
The foregoing field notes of the survey of Lha. Surdivision Lines of Tp. 20s. Resurvey of East bdy of Tp. 20s.	S. R. 256. of the
The foregoing field notes of the survey of Lha Subdivision Lines of 4,20c Resurvey of East bdy of 16,20c Sila + Salt River 6	THES SURVEYOR GENERAL, Phoenix Arig., 19/4 S. P. 256 and D. S. P. 256 of the Ose and Meridian Arizona
The foregoing field notes of the survey of Lhe Survey of East bdy of Lp. 20 Esurvey of East bdy of Lp. 20 Sila + Salt River Ba executed by	Thornix arig., 19/4 S. P. 256 and S. P. 256 of the ase and Maridian arigona Ched M. Ohoir, U.S. Transitmen
The foregoing field notes of the survey of the Survey of East bdy of Ip. 200 Resurvey of East bdy of Ip. 200 executed by mutuation promps No. 5 dated Judge 28,1911 as	Thornix arig., 19/4 S. P. 256 and S. P. 256 of the Ose and Meridian arigona Ched M. Ohor, U.S. Transitmen and August 5, 19/1, having been
The foregoing field notes of the survey of Lha Survey of East bdy of Th. 200 Compared by Sila & Salt River Barrell by Construction of Sila & Salt Sila & Salt River Barrell by Construction of Sila & Salt Sila & Salt River Barrell by Construction of Sila & Salt Sila & Salt River Barrell by Construction of Sila & Salt S	Thornix arig., 19/4 S. P. 256 and S. P. 256 of the Ose and Meridian arigona Ched M. Ohor, U.S. Transitmen and August 5, 19/1, having been
The foregoing field notes of the survey of the Surdivision Times of Tp. 200 Resurvey of East bdy of Tp. 200 executed by mutuation promps No. 5 dated Judge 28,1911 as	Thornix arig., 19/4 S. P. 256 and S. P. 256 of the Ose and Maridian arigona Ched M. Oliver, U.S. Transitmen and August 5, 19/1, having been
The foregoing field notes of the survey of the Subdivision lines of 16,20c Resurvey of East bdy of 16,20c executed by subtraction from No. 5 dated July 28,1911 as critically examined, and the necessary corrections a	Thornix Arig., 19/4 S. P. 25 E. and O. S. R. 25 E. of the Ose and Marchian Arizona Ched M. Ohor, U.S. Transtmen Ind August 5, 19//, having been and explanations made, the said field notes, and the
The foregoing field notes of the survey of Lines Substitution Lines of Lp. 200 Resurvey of East bely of Lp. 200 Executed by Intercompleted No. 5 dated July 28, 1911 as critically examined, and the necessary corrections a surveys they describe, are hereby approved.	Thornix ariz., 19/4 S. P. 256 and D.S. R. 256 of the Ose and Meridian arizona Ched M. Ohrer, U.S. Transtmen Ind August 5, 19/1, having been and explanations made, the said field notes, and the Of Arizona.
The foregoing field notes of the survey of Line Subdivision Lines of Lp. 20 c. Resurvey of East bely of Lp. 20 c. executed by	Street Surveyor General, Showing Arizona, 19/4 Showing Arizona Showing Arizona Showing Arizona Showing States Surveyor General, of Arizona.
The foregoing field notes of the survey of Line Subdivision Lines of 16,20c. Resurvey of East bely of 16,20c. Resurvey of East bely of 16,20c. executed by Continue No. 5 dated field 28,1911 as critically examined, and the necessary corrections a surveys they describe, are hereby approved. Learning that the foregoing transcript of the field.	Thornix ariz., 19/4 S. P. 256 and D.S. R. 256 of the Ose and Meridian arizona Ifred M. Ohrer, U.S. Transitmen and August 5, 19/1, having been and explanations made, the said field notes, and the Of Arizona.
The foregoing field notes of the survey of Line Survey of Last Lanes of 16,20 c. Resurvey of East Laly of 16,20 c. executed by Construction for No. 5 dated July 28,1911 as critically examined, and the necessary corrections a surveys they describe, are hereby approved. Leverify that the foregoing transcript of the field.	Street States Surveyor General. States Surveyor General. States of the States Surveyor General. Of Arizons.

Supplemental Notes of Section Line between secs. 24 and 25. Subdivision of Township 20 South, Range 25 East.

31

April 4, 1913: At 4h. 00m, p. m., l. m. t., I set off 31° $39\frac{1}{2}$! N. on the lat.arc; 5°46'N. on the decl.arc, at the cor, of secs. 23, 24, 25 and 26, which is a 2" iron post, marked and witnessed as described by the Surveyor General, set by Alfred N.Oliver, U.S. Transitman, Sept. 26, 1911. (See page 18, original notes hereto attached). Thence I run East, bet. secs. 24 and 25. Over level land, through scattering brush. Cross road, ors. NW. and SE.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for # sec.cor., marked on brass cap, 1913;
S 24 in N., and 7, 45 in 40.00 5 25 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. I dig up the post set by A.N. Oliver, U.S. Transitman, Sept. 29, 1911, and described on page 19, original notes hereto attached; fill the pits and destroy the mound of earth. Cross road, brs. N. and S.
Intersect E.bdy. of Tp. 44 lks. S.2° 07'E. of cor. of secs. 19,24,25 and 30, which is a 3" iron post, marked 72,90 73, 85 and witnessed, as described by the Surveyor General, set by Alfred N. Oliver, U.S. Transitman, Sept. 13, 1911. (See page 26, Resurvey of E. bdy. of T. 20 S., R. 25 E., hereto attached).
At point of intersection, I set an iron post 5 ft. long, 2 ins. in diam, 24 ins. in the ground, for closing cor. of secs. 24 and 25, T 20 S R 25 E, marked on brass cap, 1913; C C, E, of center, T 20 S in N., and S 19 S 30 R 26 E in E. nalf; S 24 in NW., and S 25 R 25 E in SW. quadrant; dig pits 24x18x 12 ins. crosswise on each line, N. and S. 3 ft., and W. of post, 7ft. dist., and raise a mound of earth 4 ft. base, 2 ft. nigh, W. of cor. I obliterate marks on post at cor. of secs. 19, 24, 25 and 30, set by Alfred N.Oliver, and remark it for cor. of secs. 19 and 30, T.20 S., R.26 E., as follows: 1913; T.20 S. in N., and S 24 S 25 R 25 E in W. half; S 19 in NE., and S 30 R 26 E in SE. quadrant; dig pits 24 x 24 x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor. Land, level. Soil, rich sandy loam, over two feet deep, medium texture, dry; lst rate.

No timber.

Undergrowth, mesquite.

April 4, 1913.

John J. Hesse U. S. Surveyor.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby			
	under Group 5		
ted opposite our several signatu			
lines of Tp. 20 S. Rg	. 25 E.		
<u></u>	·		·
the Gila & Salt River	Meridian, in th	ne State ofArizor	8.
ich are represented in the foreg			
•			
i; and that said survey has be	en, in all respects, to the	e best of our knowledge	ge and belief, well an
hfully executed.	>		
97,35	PERIOD OF	SERVICE.	
NAME.		Ended.	CAPACITY.
G. E. Lange	april 1, 1913	April 4,1913	Chainm a n
	Feb. 9, 1913.		
			Azman
1 1 4 Carry	March 18, 1913	April 4,1913	Chainman
1 Sughes.	Pebel 9x 1913.	April 4, 1913	Flagman
L & Hamlett	April 1, 1913.	April 4,1913	Cornerman.
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Subscribed and certified to before me on the dates of the final service as shown above.

John F. Kesse U. S. Surveyor.

740 33 800× 2706

FINAL OATH OF UNITED STATES SURVEYOR

I, John F. Hesse, U. S. Surveyor, do solemnly swear that, in pursuance
of special instructions received from the U.S. Surveyor General for Arizona
bearing date of the 28th day of July, 191/, I have well, faithfully, and truly,
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying
Instructions, and the laws of the United States, surveyed all those parts or portions of
subdivision lines of Tp. 20 S. Rg. 25 E.
of the Gila & Salt
River Base and Meridian, in the State of Arizona, which are represented in
the foregoing field notes as having been executed by me, and under my direction; and I do further
solemnly swear that all the corners of said survey have been established and perpetuated in strict accord-
ance with the Manual of Surveying Instructions, and the special written instructions of the U.S. Surveyor
ance with the Manual of Surveying instructions, and the specific manner described in the field notes, and that
General forArizona and in the specific manner described in the field notes, and that
the foregoing are the original field notes of such survey.
John & These
U. S. Surveyor.
Subscribed by said shue I. Justine, and sworn to before me this 2nd day of June, 1913
this 2 day of June, 1913
$\mathcal{L} = \mathcal{L} \cdot \mathcal{L} \cdot \mathcal{L}$
Longe C. Sligh
SEAL U. S. Commissioner Dist. of Arice to
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix Arizona, Nov. 14, 1914
Supplemental The foregoing field notes of the survey of t
The foregoing field notes of the survey of 1228 Section Line between Sections 24 & 25 of T. 205R. 25 E. of the
Gila & Salt River Base & Meridian, Arizona.
· · · · · · · · · · · · · · · · · · ·
executed by John F. Hesse U.S. Surveyor
executed by John F. Hesse, U.S. Surveyor under his special instructions dated Surveyor, 191/, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
critically examined, and the hoosest of the same same same same same same same sam
surveys they describe, are hereby approved.
surveys they describe, are hereby approved. (In and Ingall Surveyor General. of Arizons.
I sortify that the foregoing transcript of the field notes of the above-described surveys in
Back "/ " has been correctly conied from the original notes on file in this office.
Book "I", has been correctly copied from the original notes on file in this office.

H Surveyor General.