Book"V" 2712 BOOK 2712 BIFLD NOTES

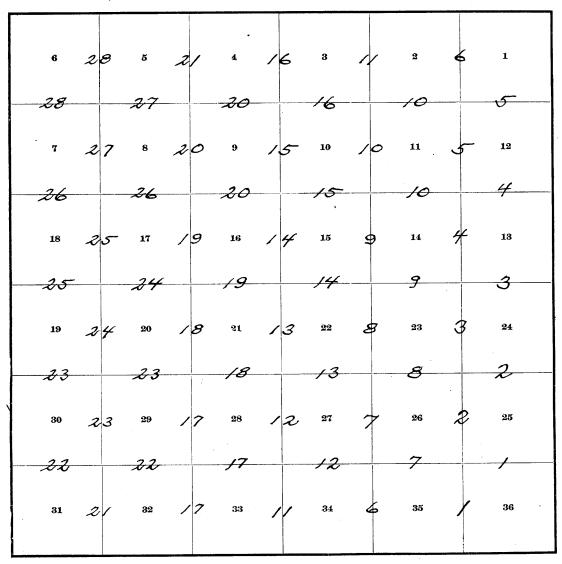
AUG 4- 1911

OF THE SURVEY OF THE

Subdivision lines of Tp. 22 S. Rg. 23 E.	
	•
······································	
	-
Of the Gila and Salt River Base and Meridian, In the State of Arizona	
EXECUTED BY	
John H. Hogge	
John F. Hesse	
In the capacity of U.S. Surveyor, under instructions dated August 24	· - /, 191/_,
issued by the United States Surveyor General to govern surveys incl	ided in
Group No. 5, which were approved by the Commissioner of the Gener	al Land
Office, <u>September //</u> , 191/, pursuant to authority contained in th	e Act of
Congress dated August 23, 1912	
Survey commenced January 14, 1913	•
Survey completed February 14, 1913	6—151

INDEX DIAGRAM.

Township 22 South, Range 23 East



Chains. Survey commenced January 14, 1913 and executed with a W. and I. E. Gurley transit, not numbered with solar attachment. The horizontal limb is provided with one double vernier reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs. The instrument was approved by the supervising surveyor August 12, 1912. At 8h. 00m. a.m., 1.m.t., I set off 31 $27\frac{1}{5}$ N. on the lat. arc; 21 $17\frac{1}{5}$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36 on the south bdy. of the Tp., as described in book "U" Thence I run 01' W. bet. secs. 35 and 36. N. O Ascend. Ridge bears N. E. and S. W. descend, through dense brush .4.00 and scattering timber. Cross road bears N. W. and S. E. Cross wash 60 lks. wide course N. W. ascend. 23.50 24.50 27.50 Cross under telephone line bears N. W. and S. E. Cross under telephone line bears N. W. and S. E. Cross drain 14 lks. Wide course S. E.

Set an iron post 3 ft. long, l in. diam., 26 ins. in the ground for \(\frac{1}{2}\) sec. cor., marked on brass cap \(\frac{1}{2}\)S35 in W.

S36 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base \(\frac{1}{2}\) ft. high, W. of cor. Pits impracticable.

Top high ridge bears N. W. and S. E. descend.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked on brass can 39.40 40.00 73.00 80.00 brass cap T22SR23E in N. and 1913 in S. half; S26 in N. W. S25 in N. E.
S36 in S. E. and
S35 in S. W. quadrant; and raise a mound of stone 2 ft base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. Timber, Oak, pinon and juniper. Undergrowth, oak and manzanita. January 14: At this cor. I set off 21 172'S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $31 \times 28\frac{1}{2}$! N. East on a random line bet. secs. 25 and 36. Set temp. $\frac{1}{4}$ sec. cor. Intersect E. bdy. of Tp. 14 lks. S. of the cor. of secs. 40.00 79.92 25, 30, 31 and 36, established by me, as described in book "U." Thence I run S. 89 / 54 W. bn a true line bet. secs. 25 and 36. Ascend through dense brush. Cross drain 12 lks. wide course S. E. Ridge bears N. E. and S. W. descend through heavy timber. 8.00 26.20 39.96 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 $\frac{1}{4}$ S25 in N. \$36 1913 in S. half; from which. An oak 5 ins. diam., bears N. 87 W. 9 lks. dist., marked \$258T. An oak 6 ins. diam., bears S. 86 dist., marked \$\$36BT. E. 24 1ks. Along rough S. slope. 51.00 Timber becomes scattering. Cross wash 15 lks. wide course S. E. Cross wash 8 lks. wide course S. E. ascend. 66.10 77.80 79.92 The cor. of secs. 25, 26, 35 and 36. Land, mountainous. Soil, rocky; 4th. rate.

Timber, oak, pinon and juniper. Undergrowth, oak and manzanita. .

At my camp which is located near the center of Tp. 22 S. Rg. 23 E., latitude $31\ 30\frac{1}{2}$ ' N., longitude 110 00' 23" W. I set off $31\ 30\frac{1}{2}$ ' N. on the lat. arc; 21 14' S. on the decl. arc; and at 4h. 00m. p.m., l,m.t., determine with the solar a meridian, at the S. end of the meridian established Japuary 2 by observations on Polaric and established January 2, by observations on Polaris, and mark a point thereof on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. west of the meridian established by the Polaris observation. January 14, 1913.

January 15: At 8h. 00m. a.m., at the S. end of the meridian established January 2, I set off $31.\sqrt{30\frac{1}{8}}$ N. on the latarc; $21\sqrt{07}$ S. 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 falls 0,3 ins. east of the meridian determined by the Polaris observation..

The solar apparatus, by p.m., and a.m., observations, defines positions for meridians, respectively about 0' 16" east and west of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the transit are satisfactory.

The magnetic bearing of the true meridian at 8h. 05m. a.m., is N. 13 45' W.; the angle thus determined gives the mag. decl. 13 45' E.

I commence at the cor. of secs. 25, 26, 35, and

Thence I run
N. 0 01' W. bet. secs. 25 and 26. Descend.

Cross wash 30 lks. wide course N. W. ascend. 14.50

36.50 Ridge bears N. W. and S. E. descend.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S26 in W. S25 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Cross wash 40 lks. wide course S. W. ascend. 40.00

49.70

60.75

Ridge bears N. W. and S. E. descend.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked on 80.00 brass cap

T22SR23E in N. and

1913 in S. half;

S23 in N. W. S24 in N. E.

S25 in S. E. and

S26 in S. W. quadrant; and raise a mound of stone 2 ft base 12 ft. high, W. of cor. Pits impracticable.

Land, mountainous. Soil, rocky; 4th. rate.

Timber, scattering oak.

Undergrowth, scattering oak.

January 15; At this cor. I set off 21 072'S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31 /292'N.

N. 89 $^{\prime}$ 54 $^{\prime}$ E. on a random line bet. secs. 24 and 25. Set temp. $\frac{1}{4}$ sec. cor.

40.00

79.88

Set temp. 1 sec. cor.

Intersect E. bdy. of Tp. 5 lks. N. of the cor. of secs.

19, 24, 25 and 30, established by me, as described in book

"U." Thence I run

S. 89 56' W. on a true line bet. secs. 24 and 25.

Descend, through scattering timber and dense brush.

3.10 Gross wash 10 lks. wide course N. W. ascend.

6.30 Ridge bears N. W. and S. E. descend.

```
.Subdivision of Tp. 22 S. Rg. 23 E.
             Cross wash 12 lks. wide course N. W.
15.60
            Ridge bears N. W. and S. E. descend.
22.60
           Ridge bears N. W. and S. E. descend.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1 sec. cor., marked on brass cap 1524 in N. and $25 1913 in S. half; from which

An oak 7 ins. diam., bears N. 197 E. 86 lks.

dist., marked 1524BT.

An oak 5 ins. diam., bears S. 32 W. 38 lks.

dist., marked 1525BT.

Cross wash 12 lks. wide course N. W. ascend.

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

Land. mountainous.
39.94
 53.10
 79.88
            Land, mountainous. Soil, rocky; 4th. rate.
             Timber, oak.
            Undergrowth, oak.
                                                                     January 15, 1913.
             January 20: At 8h. 00m. a.m., l.m.t., I set off 31 29\frac{1}{2} N. on the lat. arc; 20 06\frac{1}{2} S. on the decl. arc; and
             determine a meridian with the solar at the cor. of secs.
             23, 24, 25 and 26
           Thence I. run
N. 0. 01' W. bet. secs. 23 and 24
             Descend through dense brush and scattering timber.
10.70
             Cross wash 18 lks. wide course N. W. ascend.
           Ridge bears N. W. and S. E. descend.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in. the
30.60
40.00
             ground for 1 sec. cor., marked on brass cap 4523 in W. S24 in E. and 1913 in S. half; from which
                          An oak 4 ins. diam., bears S. 45 dist., marked $\frac{1}{2}$S23BT
                                                                                 W. 69 lks.
                          An oak 5 ins. diam. bears S. 70 E. 60 lks.
             dist., marked $\frac{1}{4}$24BT

Cross wash 5 lks. wide course N. E. and along E. slope
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
71.60
80.00
             brass cap
                  T22SR23E in N. and
                  1913 in S. half;
                  $14 in N. W. $13 in N. E.
                  S24 in S. E. and
                  S23 in S. W. quadrant; from which.
                          An oak 6 ins. diam., bears N. 78 E. 100 lks. dist., marked T22SR23ES13BT.

An oak 18 ins. diam., bears S. 64 W. 114 lks dist., marked T22SR23ES23BT.
                                                                                   W. 114 lks.
             No other bearings available. Raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
             Land, mountainous.
             Soil, rocky; 4th. rate.
             Timber, oak, pinon and juniper.
             Undergrowth, oak and manzanita.
             January 20: At this cor. I set off 20 06' S. on the
             decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31, 30 N.
            N. 89 56 E. on a random line bet. secs. 13 and 24. Set temp. 4 sec. cor.
40.00
             Intersect. E. bdy. of Tp. 12 lks. N.. of the cor. of secs.
79.96
             13, 18, 19 and 24, established by me, as described in book "U." Thence I run
            N. 89 59' W. on a true line bet. secs. 13 and 24.
            Descend through dense brush and scattering timber.
```

.Cross wash 15 lks. wide course N. ascend.

Cross wash 20 lks. wide course. N. W. ascend.

Ridge bears N. E. and S. W. descend.

0.65

14.00

23.10

```
34.20
            Ridge bears N. W. and S. E. descend.
            Cross wash 10 lks. wide course N. W. ascend. 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}S13 in N. and S24 1913 in S. half; and raise a mound of stone 2 ft.
39.20
39.98
            base 1\frac{1}{2} ft. high, N. of cor. Pits impracticable. Ridge bears N. W. and S. E. descend. Cross wash 25 lks. wide course N. ascend. The cor. of secs. 13, 14, 23 and 24.
 54.10
 63.20
 79,96
            Land, mountainous.
            Soil, rocky; 4th. rate.
            Timber, oak and juniper.
            Undergrowth, oak and manzanita.
                                                                   January 20, 1913.
            January 22: At 8h. 00m. a.m., l.m.t., I set off 31 30' Non the lat. arc; 19'.40' S. on the decl. arc; and
            determine a meridian with the solar at the cor. of secs.
            13, 14, 23 and 24.
Thence I run
                     01' W. bet. secs. 13 and 14.
            Descend through seattering brush and timber.
   7.70.
            Cross wash 4 lks. wide course N. E. ascend.
 Ridge bears N. E. and S. W. descend.

26.60
Fence bears N. E. and S. W.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1 sec. cor., marked on brass cap 1514 in W.

S13 in E. and 1913 in S. half; from which
                            An oak 12 ins. diam., bears N. 8 E. 42 lks. dist., marked $\frac{1}{4}$S13BT

An oak 14 ins. diam., bears S. 56 W. 127 lks.
                                    dist., marked 4814BT
            Fence bears N. E. and S. W.
            Cross wash 50.1ks. wide course N. W. ascend.
  51.50
            Ridge bears N. W. and S. E. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 11, 12, 13 and 14, marked on
  79.20
 80.00
             brass cap
                 T22SR23E in N. and
                 1913 in S. half; Sll in N. W.
                 S12 in N. E.
                 S13 in S. E. and
                 S14 in S. W. quadrant; and raise a mound of stone 2
             ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
             Land, mountainous.
             Soil, rocky; 4th. rate.
             Timber, oak and juniper.
             Undergrowth, oak.
             January 22; At this cor. I set off 19 39\frac{1}{2} 8. on the
            decl. arc; and observe the sun on the meridian at noon;
             the resulting lat. is 31_{\gamma} 31' N.
            S. 89 59 E. on a random line bet. secs. 12 and 13. Set temp. \frac{1}{4} sec. cor.
 40.00
  79.92
```

Intersect E. bdy. of Tp. 5 lks. N. of the cor. of secs. 7, 12, 13 and 18, established by me, as described in book "U." Thence I run N. 89 57' W. on a true line bet. secs. 12 and 13. Ascending along N. E. slope, through scattering timber and brush. Ridge bears N. W. and S. E. descend. Cross wash 30 lks. wide course N. E. ascend. 7.60.

21.80.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the 39.96 ground for $\frac{1}{4}$.sec. cor., marked on brass cap $\frac{1}{4}$ S12 in N. and \$13 1913 in S. half; from which

Subdivision of Tp. 22 S. Rg. 23 E.

```
An oak 13 ins. diam., bears N. 62
                                lks. dist., marked 1/312BT.
                        An oak 9 ins. diam., bears S. 74
                                lks. dist., marked \frac{1}{4}Sl3BT.
           Ridge bears N. W. and S. E. descend.
47.00
           Cross wash 8 lks. wide course N. W. ascend. The cor. of secs. 11, 12, 13 and 14.
62.10
79.92
           Land, mountainous.
          Soil, rocky; 4th. rate.
           Timber, oak.
          Undergrowth, oak.
                                                             January 22, 1913.
          January 28: At 8h. 00m. a.m., l.m.t., I set off 31 31' N. on the lat. arc; 18 12! S. on the decl. arc; and
           determine a meridian with the solar at the cor. of secs.
           11, 12, 13 and 14.
                       Thence I run
                   01' W. bet. secs. 11 and 12.
          Descend through scattering timber and brush.
23.90
           Cross wash 10 lks. wide course N. W.
36.20
          Cross road bears N. E. and S. W.
          Cross wash 35 lks. wide course N. E. ascend. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 4511 in W.
39.00
40.00
          S12 in E. and 1913 in S. half; and raise a mound of stone
          2 ft. base l\frac{1}{2} ft. high, W. of cor. Pits impracticable. Ridge bears N. E. and S. W. almost N. descend along
68.50
           ridge.
          Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 1, 2, 11 and 12, marked on
80.00
          brass cap
               T22SR23E in N. and
               1913 in S. half;
               S2 in N. W.
               Sl in .N. E.
          S12 in S. E. and S11 in S. W. quadrant; and raise a mound of stone 2 ft. base l\frac{1}{2} ft. high, W. of cor. Pits impracticable.
          Land, mountainous.
          Soil, rocky; 4th. rate.
          Timber, oak.
          Undergrowth, oak.
          January 28: At this cor. I set off 18\sqrt{10\frac{1}{2}} S. on the
          decl. arc; and observe the sun on the meridian at noon;
          the resulting lat. is 31 32' N.
          S. 89 57' E. on a random line bet. secs. 1 and 12. Set temp. \frac{1}{4} sec. cor.
40.00
          Intersect E. bdy. of Tp. 16 lks. S. of the cor. of secs. 1, 6, 7 and 12, established by me, as described in book "U." Thence I run
S. 89 56' W. on a true line bet. secs. 1 and 10
80.04
                   56' W. on a true line bet. secs. 1 and 12.
          Descend through scattering timber.
          Cross wash 20 lks. wide course N. W. ascend. Ridge bears N. W. and S. E. descend.
 6.30
23.50
          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 \( \frac{1}{4} \)Sl in N. and S12 1913 in S. half; and raise a mound of stone 2 ft. base 1\( \frac{1}{2} \) ft. high, N. of cor. Pits impracticable. Cross wash 10 lks. wide course 3. W.
40.02
52.30
          Cross wash 35 lks. wide course N. W. ascend.
63.10
          Cross road bears N. W. and S. E.
67.00
79.05
          Ridge bears N. E. and S. W. descend.
80,04
          The cor. of secs. 1, 2, 11 and 12.
```

Land, mountainous.

Soil, rocky; 4th. rate.

```
Timber, oak.
                                                                   January 28, 1913.
             February 10:
N. O Ol' W. on a random line bet. secs. 1 and 2.
             N \cdot O
             Set temp. \frac{1}{4} sec. cor.
40.00
             Intersect N. bdy. of Tp. 7 lks. W. of the cor. of secs.
80.12
             1, 2, 35 and 36, established by me, as described on book
                      Thence I run
            S. 0 02' W. bet. secs. 1 and 2.
             ascend.
 12.00
             Ridge bears E. and W. descend.
            Cross wash 40 lks. wide course W. and over level land. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S2 in W. S1 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable. Cross road bears E. and W. and ascend. The cor. of secs. 1, 2, 11 and 12.
 31.00
 40.12
 46.50
 80.12
             Land, mountainous.
             Soil, rocky; 4th. rate.
             No timber.
                                                                 February 10, 1913.
             January 16: At 8h. 00m. a.m., l.m.t., I set off 31^{27} N. on the lat. arc; 20 \sqrt{55} S. on the decl. arc; and
             determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of the Tp., described in Book "U." Thence I run
           N. O 01' W. bet. secs. 34 and 35.
             Descend through scattering timber and brush.
             Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S34 in W. S35 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
 40.00
             Cross wash 10 lks. wide course N. E. ascend.
  53.60
             Ridge bears N. E. and S. W. descend.
 65.10
             Cross wash 8 lks. wide course S. E.,
  72.40
             Ridge bears N. E. and S. W. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
  77.65
  00.08
             ground for cor. of secs. 26, 27, 34 and 35, marked on
             brass cap
                  T22SR23E in N. and
                  1913 in S. half;
S27 in N. W.
                  S26 in N. E.
                  S35 in S. E. and
S34 in S. W. quadrant; from which
An oak 9 ins. diam., bears N. 24. W. 54 lks. dist.
marked T22SR23ES27BT.
                    An oak 5 ins. diam., bears N. 41 marked T22SR23ES26BT.
                                                                             E. 76 lks. dist.,
                    An oak 5 ins. diam., bears S. 86
                                                                            E. 37 lks. dist.,
                            marked T22SR23ES35BT.
                    An oak 5 ins. diam., bears S. 22 W. 119 lks. dist., marked T22SR23ES34BT.
             Land, mountainous.
              Soil, rocky; 4th. rate.
              Timber, cak and juniper.
              Undergrowth, oak.
             January 16; At this cor. I set off 20 55'S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31 \sqrt{28\frac{1}{2}} N.
```

Subdivision of Tp. 22 S. Rg. 23 E.

```
East on a random line bet. secs. 26 and 35.
          Set temp. \(\frac{1}{4}\) sec. cor.

Intersect N. and S. line 7 lks. S. of the cor. of secs.
40.00
79.90
          25, 26, 35 and 36. Thence I run
          s. 89
                    57' W. on a true line bet. secs. 26 and 35.
          Ascend through dense brush and timber. Ridge bears N. W. and S. E. and descend.
 6.00
          Cross wash 70 lks. wide course N. W. ascend.
23.70
34.50
          Descend.
          Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 4526 in N. and S35 1913 in S. half; from which
39.95
                       An oak 10 ind. diam. bears N. 42
                                                                       E. 44 lks..
                               dist., marked 4826BT.
          An oak 5 ins. diam., bears S. 59 W. 38 lks. dist., marked 4S35BT...
Cross telephone line bears N. W. and S. E.
52.10
          Cross road bears N. W. and S. E..
56.00
56.90
          Cross telephone line bears N. W. and S. E.
          Gross wash 60 lks. wide course N. W. ascend.
58.00
          Ridge bears N. and S. From this point A. R. McCamly house bears N. 12 30' W. 18.50 chs. dist.
61.30
          Ascend along N. E. slope.
69.80
          The cor. of secs. 26, 27, 34 and 35.
79.90
          Land, mountainous.
          Soil, rocky; 4th. rate.
Timber, oak, juniper and pinon.
Undergrowth, oak and manzanita.
                                                         January 16, 1913.
          January 17; At 8h. 00m. a.m., l.m.t., I set off 31 28\frac{1}{2}. N. on the lat. arc; 20 \cdot 43\frac{1}{2}. S. on the decl. arc; and
          determine a meridian with the solar at the cor. of secs.
          26, 27, 34 and 35
                     Thence I run
                  01' W. bet. secs. 26 and 27.
        N \cdot O
          Descend through .scattering .timber and .brush .
 5.50
          Cross wash 12 1ks. wide course N. E. ascend.
17.00
         Ridge bears N. E. and S. W. descend.
          Cross wash 10.1ks. wide course N. E.
21.10
27.40
          Ridge bears N. E. and S. W. and telephone line bears N. W.
          and S. E.
31.10
          Cross wash 60 lks. wide course N. W. ascend.
          Cross telephone .line bears N. W. and S. E.
33,60
         Cross.road bears N. W. and S. E. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
34.80
40.00n
          ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S27 in W. S26 in E. and .1913 in S. half; from .which

.An oak 5 ins. diam., bears N. 34 W. 44 lks..

dist., marked \frac{1}{4}S27BT.
                      An oak 5 ins. diam., bears S. 42 dist., marked $\frac{1}{4}$S26BT.
                                                                      E. 11 1ks.
45.10
          Leave timber.
55.20
         Ridge bears N. E. and S. W. descend.
          Cross wash 20 lks. wide course S. .W. ascend.
61.50
63.20
         A point from which
         Chas. Hanan house bears S. 70 W.

Geo. Hewitt house hears S. 72 10' W.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 22, 23, 26 and 27, marked on
80,00
         brass cap
               T22SR23E in N. and
               .1913 in S. half;
               S22 in N. W.
               S23 in N. E.
               S26 in S. E. and
               S27 in S. W. quadrant; and raise a mound of stone 2
```

ft base $\mathbf{1}^{rac{1}{22}}$ ft. high, W. of cor. Pits impracticable.

```
diains
            Land, mountainous.
            Soil, rocky; 4th. rate.
            Timber, oak and .juniper.
            Undergrowth, oak and manzanita...
            January 17; At this cor. I set off 20 43\frac{1}{2} S. on the
           decl. arc; and observe the sun on the meridian at noon;
            the resulting lat. is 31/29\frac{1}{2}' N.
           N. 89 57' E. on a random line bet. secs. 23 and 26. Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line 12 lks. N. of the cor. of secs.
 40.00
 79.98
            23, 24, 25 and 26.
                             Thence I run
            N. 89 ^{\prime} 58 ^{\prime} W. on a true line bet. secs. 23 and 26.
            Ascend through scattering timber and brush. Ridge bears N. W. and S. E. descend.
 15.50
           Cross wash .25 lks. wide course N. W. ascend.
Set an iron post .3 ft. long, l in. diam., 26 ins. in the ground for \( \frac{1}{2} \) sec. cor., marked on brass cap \( \frac{1}{4} \)S23 in N.
and S26 1913 in S. half; and raise a mound of stone 2 ft. base \( \frac{1}{2} \) ft. high, N. of cor. Pits impracticable.
 30.10
 39.99
            Ridge bears N. W. and S. E. descend.
 49.50
            The cor. of secs. 22, 23, 26 and 27.
 79.98
            Land, mountainous.
            Soil, rocky; 4th. rate.
            Timber, oak.
            Undergrowth, oak.
                                                             January 17, 1913.
            January 23: At 8h. 00m. a.m., l.m.t., I set off 31 29\frac{1}{2} N. on the lat. arc; 19 /26' S. on the decl. arc; and
            determine a meridian with the solar at the cor. of secs.
            22, 23, 26 and 27.
                          Thence I run
            N. 0 01' W. bet. secs. 22 and 23.
            Descend through scattering brush and timber.
 9.80
            Cross wash 15.1ks. wide course N. W. ascend.
            Ridge bears N. W. and S. E. descend.
 17.60
            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 $\frac{1}{4}$S22 in W.
 40.00
            S23 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Cross wash 12 lks. wide course N. W. ascend.
 48.10
            Ridge bears N. W. and S. E. descend.
Cross wash 20 lks. wide course N. W. ascend.
 51.20
 54.80
            Ridge bears N. W. and S. E. descend.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
ground for cor. of secs. 14, 15, 22 and 23, marked on
 68.70
 80.00
            brass cap
                  T22SR23E in N. and
                  1913 in S. half;
                  S15 in N.W.
                  Sl4 in N. E.
                  S23 in S. E. and
                  S22 in S. W. quadrant; and raise a mound of stone 2
            ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
            Land, mountainous. Soil, rocky; 4th. rate.
            Momber, oak.
            Undergrowth, oak.
            January 23; At this cor. I set off 19 25\frac{1}{2} S. on the decl. arc; and observe the sun on the meridian at noon;
            the resulting lat. is 31 /30 N.
```

```
Subdivision of Tp. 22 S. Rg. 23 E.
chains.
            S. 89 58 E. on a random line bet. secs. 14 and 23. Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line 9 lks. N. of the cor. of secs. 13, 14, 23 and 24.
  40.00
 79.86
                           Thence I run
            N. 89^{\checkmark} 54^{\circ} W. on a true line bet. secs. 14 and 23.
            Ascend through scattering timber and brush.
            Ridge bears N. W. and S. E. descend.
 27.60
            Cross wash 15 lks. wide course N. ascend.
36.90
            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 \(\frac{1}{4}\)Sl4 in N. and S23 1913 in S. half; from which

An oak 7 ins. diam., bears N. 31 W. 61 lks.

dist., marked \(\frac{1}{4}\)Sl4BT.
39.93
                            An oak 10 ins. diam., bears S. 34 W. 119 lks. Dist., marked $\frac{1}{4}$S23BT.
48.00
            Ridge bears N. W. and S. E. descend.
            Cross wash 9 lks. wide course N. W. The cor. of secs. 14, 15, 22 and 23.
 75.70
79.86
            Land, mountainous.
            Soil, rocky; 4th. rate...
            Timber, oak.
            Undergrowth, oak.
                                                                       January 23, 1913.
            January 25:
                    01' W. bet. secs. 14 and 15.
            Descending through scattering timber and brush along rough
            broken, general W. slope of high ridge.
  4.10
            Cross wash 6 lks. wide course N. W.
  6.80
            Ridge bears N. W. and S. E.
  8.90
            Cross wash 8 lks. wide course N. W.
            Ridge bears N. W. and S. E.
15.55
            Cross wash 8 lks. wide course N. W. Ridge bears N. W. and S. E. 32.70. Cross wash 6 lks. wide course N. W.
21.10
27.30
32.70
           Ridge bears N. W. and 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}{4}S15 in W.

Sl4 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable. Cross wash 9 lks. wide course N. W.
37.90
40.00
43.20
48.10
            Ridge bears N. W. and S. E.
65.40
            Cross wash 8 1ks. wide course N. W.
            Cross same wash course N. E. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked on
76.00
80.00
            brass cap
                  T22SR23E in N. and
                  1913 in S. half;
                  SlO in N. W.
                  Sll in N. E.
                  S14 in S. E. and
                 S15 in S. W. quadrant; from which
An oak 7 ins. diam., bears N. 62 W. 279 lks.
dist., marked T22SR23ES10BT.
                            An oak 7 ins. diam., bears N. 612 dist., marked T22SR23ES11BT.
                                                                                       E. 112 lks.
                            An oak 9 ins. diam., bears S. 70\frac{1}{2}
                                                                                       E. 186 lks.
                            dist., marked T22SR23ES14BT.

An oak 10 ins. diam., bears S. 70 W. 115 lks.
dist., marked T22SR23ES15BT.
             Land, mountainous.
             Soil, rocky; 4th. rate.
             Timber, oak.
```

January 25, 1913.

Undergrowth, oak.

```
January 26:
          S. 89 54 E. on a random line bet. secs. 11 and 14. .
Set temp. \(\frac{1}{4}\) sec. cor.,
Intersect N. and S. line 16 lks. S. of the cor. of secs.
40.00
79.90
          11, 12, 13 and 14.
                      Thence I run
          S. 89 / 59' W. on a true line bet. secs. 11 and 14.
          Descend through scattering timber and brush. Cross road bears N. E. and S. W..
 7.10
          Cross wash. 45 lks. wide course N. E. ascend.
7.80
31.90
          A point from which Geo. Keahey house bears S. 67 E.
          12.60 chs. dist.
          Ridge bears N. and S. descend.
Set an iron post 3 ft. long, l. in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 4511 in N. and S14 1913 in S. half; and raise a mound of stone 2 ft.
33.00
39.95
          base 1\frac{1}{2} ft. high, N. of.cor. Pits impracticable.
          Cross wash 10 lks..wide course N.W. ascend. Top of N. slope of ridge bears N. and S. Cross wash 10 lks. wide course N.W.
46.00
51.70
75.60
77.60
          Ridge bears N. W. and S. E.
           Cross wash 5 lks. wide course N.
78.40
          The cor. of secs. 10, 11, 14 and 15.
79.90
          Land, mountainous. Soil, rocky; 4th. rate.
           Timber, oak.
          Undergrowth, oak.
                                                             January 26, 1913.
          February 12: At. 8h. 00m. a.m., l.m.t., I set off 31 31' N. on the lat. arc; 13 \lor 42\frac{1}{6}' S. on the decl. arc; and
          determine a meridian with the solar at the cor. of secs.
           10, 11, 14 and 15.
                       Thence I run
          N. 0 01' W. bet. secs. 10. and 11. Over nearly level land, through dense brush.
           Cross wash 8 lks. wide course N. W. .
 3.70
18.10
           Cross wash, 8 lks. wide course N. W.
          Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 4810 in W. Sll in E. and 1913 in S. half; and raise a mound of stone
40.00
           2 ft. base la ft. high, W. of cor. Pits impracticable..
           Cross wash 8 lks. wide course N. W.
46.30
          Cross wash 8 lks. wide course N. W. ascend.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked on brass
73.00
80.00
               T22SR23E in N. and
               1913 in S. half;
               S3 in N. W.
               S2 in N. E.
               Sll in S. E. and
               S10 in S. W. quadrant; and raise a mound of stone 2 ft.
           base 12 ft. high, W. of cor. Pits impracticable.
           Land, level and mountainous.
           Soil, rocky; 4th. rate.
           No timber.
           Undergrowth, mesquite and catclaw.
          N. 89 59 E. on a random line bet. secs. 2 and 11 Set temp. 4 sec. cor.
Intersect N. and S. line 12 lks. N. of the cor. of secs.
1, 2, 11 and 12.
40.00
80.02
```

Thence I run

Descemd.

N. 89 $^{1/2}$ 56 $^{1/2}$ W. on a true line bet. secs. 2 and 11

2712 BOOK Subdivision of Tp. 22 S. Rg. 23 E. hains. Cross wash 8 1ks. wide course N. W. ascend. 15.30 Ridge bears N. W. and S. E. descend. 25.50 Cross wash 8 lks. wide coarse N. W. ascend. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 452 in N. and 34.00 40.01 S11.1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Ridge bears N. W. and S. E. descend. Cross wash 6 lks. wide course N. W. ascend. 43.10 49.50 Ridge bears N. W. and S. E. descend. 59.50 The cor. of secs. 2, 3, 10 and 11. 80.02 Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, blackbrush. February 12; At this cor. I set off 13 40' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31 32' N. N. 0 01' W. on a random line bet. secs. 2 and 3.

Set temp. 2 sec. cor.

Intersect N. bdy. of Tp. 5 lks. E. of the cor. of secs. 40.00 80.02 2, 3, 34 and 35, established by me, as described in book "U."

Thence T min Thence I run S.0 03' E. on a true line bet. secs. 2 and 3. Descend Over level land, through dense brush. 10.00 Cross wash 30 lks. wide course N. W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the 33.60 40.02 ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}S3$ in W. S2 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. 50.90 Cross road bears N. E. and S. W. Cross wash 6 lks. wide course W. and ascend. 54.50 Ridge bears E. and W. descend. The cor. of secs. 2, 3, 10 and 11. Land, level and mountainous. 67.00 80,02 Soil, rocky; 4th. rate. No timber. Undergrowth, squaw brush, mesquite and blackbrush. February 12, 1913. January18: At 8h. 00m. a.m., l.m.t., I set off 31 $27\frac{1}{2}$ N. on the lat. arc; 20 $\sqrt{32}$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp., described in Book "U" Thence I run
N. 0 02' W. bet. secs. 33 and 34. Ascending along general S. W. slope of high ridge through scattering brush and timber. Cross wash 10 lks. wide course S. W. 17.50 28.80 Ridge bears N. E. and S. W. 33.10 Cross wash 5 lks. wide course S. W. 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 $\frac{1}{4}$ S33 in W. S34 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. 40.00 54.20 Ridge bears N.W. and S. E. descend. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 27, 28, 33 and 34, marked on 90.00 brass cap T22SR23E in N. and 1913 in S. half; \$28 in N. W.

S27 in N. E. S34 in S. E. and

\$33 in S. W. quadrant; and raise a mound of stone 2 ft.

```
base 1 ft. high, W. of cor. Pits impracticable.
           Land, mountainous.
           Soil, rocky; 4th..rate.
           Timber oak and juniper.
           Undergrowth, oak and blackbrush..
           January 18; At this cor. I set off 20 \sqrt{31}\frac{1}{2} S. on the
           decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31 \ / \ 28\frac{1}{2} N.
          East on a random line bet. secs. 27 and 34.
40.00
          Set temp. 4 sec. cor.
          Intersect N. and S. line 7.1ks. N. of the cor. of secs.
80.12
          26, 27, 34 and 35.
                        Thence I run
          N. 89 57' W. on a true line bet. secs. 27 and 34.
          Ascending rough general N. E. slope through scattering brush and timber.
12.70
          Cross wash 15 lks. wide course N. E.
          Ridge bears N. and S.
21.80
35.90
          Ridge bears N. E. and S. W.
39.10
          Cross wash 5 lks. wide course.N. 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}S27 in N. and S34 1913 in S. half; and raise a mound of stone 2 ft.
40.06
          base 1\frac{1}{2} ft. high, N. of cor. Pits impracticable.
41.70
          Ridge bears N. and S.
43.80
          Cross wash 5 lks. wide course N. W.
49.40
          Ridge bears N. and S.
49.74
          A point from which
                    Chas. Hanan house bears N. 13 40' E. Geo. Hewitt house bears N. 7 40' W. P. B. Crane house bears N. 18 45' W.
                   Shaft house Bisbee-Arizona Mine (deserted) bears N. 7 20' W.
          Cross wash 10 lks. wide course N. E. Ridge bears N. E, and S. W. The cor. of secs. 27, 28, 33 and 34.
55.90
65.60
80.12
          Land, mountainous.
          Soil, rocky; 4th. rate.
          Timber, oak and juniper.
          Undergrowth, oak.
                                                             January 18; 1913.
          January 24: At 8h. 00m. a.m., l.m.t., I set off 31 28\frac{1}{2} N. on the lat. arc; 19 12' S. on the decl. arc; and
          determine a meridian with the solar at the cor. of secs.
          27, 28, 33 \text{ and } 34.
                      Thence I run
                   02' W. bet. secs. 27 and 28.
          Descending along rough general N. E. slope of high ridge
          Through scattering timber and brush.
24.20
          Cross wash 15 lks. wide course N. E.
          Ridge bears N. E. and S. W.
37.10
          Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
40,00
          ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S28 in W. S27 in E. and 1913 in S. half; from which An oak 5 ins. diam., bears N. 48 W. 43 lks. . dist., marked \frac{1}{4}S28BT.
          An oak 5 ins. diam., bears S. 79 E. 5 lks. dist., marked $27BT.

Cross wash 5 lks. wide course N. E.

Ridge bears N. E. and S. W.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for con of secs. 21, 22, 27 and 29 marked an
41.70
55.20
80.00
          ground for cor. of secs. 21, 22 27 and 28, marked on
          brass cap
               T22SR23E in N. and
```

1913 in S. half;

Subdivision of Tp. 22 S. Rg. 23 E.

```
S21 in N. W.
                S22 in N. E.
           S27 in S. E. and S28 in S. W. quadrant; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
           Land, mountainous.
           Soil, rocky; 4th. rate.
Timber, oak, pinon and juniper.
           Undergrowth, oak.
           January 24: At this cor. I set off 19 11' S. on the decl.
           arc; and observe the sun on the meridian at noon the resulting lat. is 31, 29\frac{1}{2} N.
          S. 89 57' E. on a random line bet. secs. 22 and 27. Set temp. 4 sec. cor. Intersect N. and S. line 12 lks. S. of the cor. of secs.
40.00
80.06
           22, 23, 26 and 27.
                        Thence I run
           S. 89 58 W. on a true line bet. secs. 22 and 27.
           Descend through scattering timber and brush.
 5.00
           Ascend.
           Ridge bears N. W. and S. descend.
16.00
40.03
           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 $\frac{1}{4}$S22 in N. and $27. 1913 in S. half; from which

An oak 8 ins. diam., bears N. 87 W. 256 lks.

dist., marked $\frac{1}{4}$S22BT.
                          An oak 6 ins. diam., bears S. 36 W. 185 lks. dist., marked 45278T.
41.10
           Cress wash 60 lks. wide course N. W.
           Cross telephone line bears N. W. and S. E.
44.60
44.75
           Cross telephone line bears N. W. and S. E.
           Cross road bears N. W. and S. E.
45.00
59.00
           Cross wash 15 lks. wide course N. E. ascend.
           Ridge bears N. E. and S. W. descend. The cor. of secs. 21, 22, 27 and 28.
70..80
80.06
           Land, mountainous.
           Soil, rocky; 4th. rate.
           Timber, oak and pinen.
           Undergrowth, oak.
                                                               January 24; 1913.
          January 25: At 8h. 00m., a.m., l.m.t., I set off 31^{\circ} 29\frac{1}{2}! N. on the lat. arc; 18° 57\frac{1}{2}! S. on the decl. arc; and
          determine a meridian with the solar at the cor. of secs.
           21, 22, 27 and 28.
                        Thence I run
          N. 0° 02' W. bet. secs. 21 and 22.
          Descending through scattering timber and brush.
13.90
          Cross wash 12 lks. wide course N. E.
          Cross wash 60 lks. wide course N. W. Cross road bears N. W. and S. E. Cross telephone line bears N. W. and S. E.
26.00
26.80
28.60
          Cross telephone line bears N. 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 cap \frac{1}{4}S21 in W. S22 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
28.95
40,00
          From this cor. P. B. Crane house bears N. 732 Ridge bears N. W. and S. E.
41.56
          Shaft house Bisbee-Arizona mine bears N. 16 00' E. C. Thomas house bears N. 54 45' W.
52.40
          Cross wash 30 lks. wide course N. W.
54.70
          Cross road bears E. and W.
62.00
          House, empty bears E. 6.50 chs.
```

65.80

Road bears N. E. and S. W.

```
House, empty bears E. 7.00 Chs.
67.50
68.50
          Ascend steep S. slope.
           Ridge bears N. W. and S. E.
80.00
          Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked on
           brass cap
               T22SR23E in N. and
               1913 in S. half;.
               sl6 in N. W.
               S15 in N. E.
          S22 in S. E. and S21 in S. W. quadrant; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
           Land, mountainous.
           Soil, rocky; 4th. rate.
           Timber, eak and pinen.
          Undergrowth, oak.
          N. 89 58 E. on a random line bet. secs. 15 and 22. Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line 12 lks. N. of the cor. of secs.
40.00
80.20
           14, 15, 22 and 23.
                         Thence I run
           N. 89 \sim 57 W. bet. secs. 15 and 22 on a true line.
           Ascend through scattering timber and brush.
           Ridge bears. N. W. and. S. E., descend.
3.30
           Cross wash 8 lks. wide course N. W. ascend.
11.40
25..00
           Ridge bears. N. W. and. S. E. descend.
           Cross wash 5 lks. wide course N. W. ascend.
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 \( \frac{1}{4} \)S15 in N. and S22 1913 in S. half; from which
39.00
40,.10
                          An oak 7. ins. diam... bears N. 71 W. 18 lks... dist., marked 4S15BT.
           An oak 7 ins. diam., bears S. 23 E. 100 lks. dist., marked 4522BT.

Ridge bears W. and S. E. and along on ridge. From this point Wm. Davis house bears N. 3. 30' E. 28.50 chs. dist.
55.10
           Cross road bears N. E. and S. W.
73.70
           The cor. of secs. 15, 16, 21 and 22.
80.20
           Land, mountainous.
           Soil, rocky; 4th. rate.
           Timber, oak.
           Undergrowth, oak.
           January 25: At this cor. I set off 18 \cdot 56\frac{1}{2} S. on the decl. arc; and observe the sun on the meridian at noon;
           the resulting lat. is 31 / 30 N.
                                                                January 25, 1913.
           January 26: At 8h. 00m. a.m., l.m.t., I set off 31 \sqrt{30}! N. on the lat. arc; 18 \sqrt{42\frac{1}{2}}! S. on the decl. arc; and determine a meridian with the solar at the cor. of secs.
           15, 16, 21 and 22.
                           Thence L run
                   02'. W. bet. secs. 15 and 16.
           Descend.
           Cross wash 6 lks. wide course N. W. ascend
 21.30
           Ridge bears N. W. and S. E. descend.
30.60
           Cross wash 5 lks. wide course N. W. ascend. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
37.90
40,00
           ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S16 in W.
           S15 in E. and 1913 in S. half; and raise a mound of stone
           2 ft. base l_{\overline{z}}^{\frac{1}{2}} ft. high, W. of cor. Pits impracticable. Ridge bears N. W. and S. E. descend.
51.10
           Cross wash 6 lks. wide course N. E.
67.75
```

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the

80.00

```
Chains.
            ground for cor. of secs. 9, 10, 15 and 16, marked on brass
                 T22SR23E in N. and
                 1913 in S. half;
                 S9 in N. W.
                 S10 in N. E.
            S15 in S. E. and S16 in S. W. quadrant; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
            Land, mountainous.
            Soil, rocky; 4th. rate.
            No timber.
            S. 89 57' E. on a random line bet. secs. 10 and 15. Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line 9 lks. N. of the cor. of secs.
 40.00
 80.08
            10, 11, 14 and 15.
                          Thence I run
            N. 89 53' W. on a true line bet. secs. 10 and 15.
            Descend through scattering brush.
            Cross wash 15 lks. wide course N. W. ascend.
  2.00
 16.00
            Ridge bears N. W. and S. E. descend.
 19.30
            Cross wash 5 lks. wide course N. W. ascend.
            Ridge bears N. W. and S. E. descend.
 25.80
 34.90.
            Cross wash 4 lks. wide course S. W.
           Ridge bears N. E. and S. W. descend.
Set an iron post 3 ft. long, l. in. diam., 26 ins. in the ground for \( \frac{1}{2} \) sec. cor., marked on brass cap \( \frac{1}{2} \)Sl0 in N. and S15 1913 in S. half; and raise a mound of stone 2 ft.
 40.04
            base la ft. high, N. of cor. Pits impracticable. Cross wash 12 lks. wide course N. W. and over nearly
  47.75
            level land.
 63.90
            Cross wash 25 lks. wide course N. W.
 69.20
            Road bears N. W. and S. E.
 71.15
            Cross wash 12 lks. wide course N. and ascend.
            Ridge bears N. E. and S. W. descend. The cor. of secs. 9, 10, 15 and 16.
 77.05
 80.08
            Land, mountainous. and level.
            Soil, rocky; 4th. rate.
            No timber.
            Undergrowth, mesquite.
            January 26; At this cor. I set off 18 41\frac{1}{2} S. on the
            decl. arc; and observe the sun on the meridian at noon;
            the resulting lat. is 31 31' N.
                                                              Lanuary 26, 1913.
           February 13: At 8h. 00m. a.m., l.m.t., I set off 31 31' N. on the lat. arc; 13 \times 22\frac{1}{2}' S. on the decl. arc; and
           determine a meridian with the solar at the cor. of secs.
           9, 10, 15 and 16.
Thence I run
           N. 0. 02' W. bet. secs. 9 and 10. Descending dense brush.
  5.00
           Over rolling land.
           Cross road bears N. 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 cap \frac{1}{4}S9 in W.

Slo in E. and 1913 in S. half; dig pits 18 x 18 x 12 ins.

N. and S. of post 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base 1\frac{1}{2} ft. high, W. of cor.
38.10
40.00
           Cross road bears N. E. and S. W. Cross road bears N. W. and S. E.
40.40
63.80
           Kross road bears N. E. and S. W.
71.00
           Cross wash 20 lks. wide course W.
74.30
           Set am 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
80 •00
```

*1-1	. Subdivision the new Per We are He
Chains.	cap T22SR23E in N. and 1913 in S. half; S4 in N. W. S3 in N. E. S10 in S. E. and S9 in S. W. quadrant; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, level and mountainous. Soil; Sandy loam, dry, medium texture; lst. rate. S. 5 chs. rocky; 4th. rate. No timber. Undergrowth, mesquite and blackbrush.
40.00	S. 89 53 E. on a random line bet, secs. 3 and 10. Set temp. 4 sec. cor. Intersect N. and S. line 12 lks. S. of the cor. of secs. 2, 3, 10 and 11.
	N. 89 58 W. on a true line bet. secs. 3 and 10.
	Descend
5.00 30.50	Over level land, through dense brush. Cross wash 5 lks. wide course N. W.
39.97	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S3 in N. and S10 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
59.90	Cross road bears N. E. and S. W.
68.15 79.94	Cross road bears N. and S. The cor. of secs. 3, 4, 9 and 10.
/ / /	Land, level and mountainpus.
	Soil, sandy loam, mixed with rocks and gravel; 2nd. rate. No timber. Undergrowth, mesquite and blackbrush.
	•
	y o col w an amadem line bet agen 7 and 4
40.00	N. 0 02' W. on a random line bet. secs. 3 and 4. Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. bdy. of Tp. 2 lks. W. of the cor. of secs.
	3, 4, 33 and 34, established by me, as described in book "U." Thence I run
	S. O Ol' E. on a true line bet. secs. 3 and 4.
29.70	Over level land, through dense brush. Cross wash 10 lks. wide course S. W.
40.10	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 $\frac{1}{4}$ S4 in W. S3 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
80.10	The cor. of secs. 3, 4, 9 and 10.
•	Land, level. Soil, sandy loam, mixed with rocks and gravel; 2nd. rate. No timber.
	Undergrowth, mesquite and blackbrush. February 13; At this cor. I. set off 13. 20' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31°32' N
	February 13, 1913.

		Subdivision of Tp. 22 S. Rg. 23 E.
	Chains.	January 29: At 8h. 00m. a.m., 1.m.t., I set off $31^{\frac{1}{2}}27^{\frac{1}{2}}$
		N. on the lat. arc; 17:56'S. on the decl. arc; and
		determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the T., described in
		book "U"Thence I run
		N. 0 02! W. bet. secs. 32 and 33.
		Ascend along East slope of ridge through scattering brush.
	32.00 40.00	Ridge bears N. E. and S. W. descend. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
	40.00	ground for \$\frac{1}{2}\text{ sec. cor., marked on brass cap \$\frac{1}{2}\text{S32 in W.}
		S33 in E. and 1913 in S. half; and raise a mound of stone
	41.90	2 ft. base $l\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Cross wash 8 lks. wide course S. W. ascend.
	53.00	Ridge bears N. W. and S. E. descend.
	77.50	Cross wash 12 lks. wide course N. W. ascend.
	80,.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
		ground for cor. of secs. 28, 29, 32 and 33, marked on brass cap
		T22SR23E in N. and
		1913 in S. half;
		S29 in N. W. S28 in N. E.
		S33 in S. E. and
	7	S32 in S. W. quadrant; and raise a mound of stone 2
		ft. base la ft. high, W. of cor. Pits impracticable. Land, mountainous.
		Seil, rocky; 4th. rate.
		No timber.
		Undergrowth, blackbrush. January 29: At this cor. I set off 17 54 2'S. on the
		decl. arc; and observe the sun on the meridian at noon;
		the resulting lat. is $31/28\frac{1}{2}$ N.
	·	That are a nandem line but good 00 and 77
	40.00	East on a random line bet. secs. 28 and 33. Set temp. 4 sec. cor.,
	80.16	Intersect N. and S. line 16 lks. N. of the cor. of secs.
	V	27, 28, 33 and 34.
		Thence I run N. 89 53' W. on a true line bet. secs. 28 and 33.
		Ascend Rough N. E. slepe, through scattering brush.
	20.00	Cross wash 8 lks. wide course N. E. Ridge bears N. W. and S. E. descend.
	40.08	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
	V	ground for \$\frac{1}{4}\$ sec. cor., marked on brass cap \$\frac{1}{4}\$28 in N.
		and S33 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	80.16	The cor. of secs. 28, 29, 32 and 33.
		Land, mountainous.
		Seil, rocky; 4th. rate. No timber.
		Undergrowth, blackbrush.
		January 29, 1913.
	_	January 30: At 8h. 00m. a.m., 1.m.t., I set off 31 $28\frac{1}{2}$.
		N. on the lat. arc; $17.739\pm$ S. on the decl. arc; and.
		determine a meridian with the solar at the cor. of secs. 28, 29, 32 and 33,
		Thence I run
	V	N. 0 02' W. bet. secs. 28 and 29.
	8.10	Ascend through dense brush. Ridge bears N. W. and S. E. descend.
	18.30	Cross wash 10 lks. wide course NW. ascend.
	40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
	,	ground for sec. cor., marked on.brass cap 1529 in W.
		2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	,	in in the state of
,		

```
Ridge bears N. W. and S. E. Ridge bars N. W. and S. E. descend.
41.00
48.00
         Cress wash 6 lks. wide course N. W.
52.60
         Cross wash 10 lks. wide course S. W.
71.60
         Cross wash 8 lks. wide course S. W. ascend.
74.40
         Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
80.00
         ground for cor. of secs. 20, 21, 28 and 29, marked on
         brass cap
             T22SR23E in N. and
             1913 in S. half;
             S20 in N. W.
             S21 in N. E.
             S28 in S. E. and S29 in S. W. quadrant; and raise a mound of stone 2
         ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
         Land, mountainous.
         Seil, rocky; 4th. rate.
         No timber.
         Undergrowth, blackbrush.
         S. 89 53 E. on a random line bet. secs. 21 and 28. Set temp. \frac{1}{4} sec. cor.,
40.00
         Intersect N. and S. line 9 lks. S. of the cer. of secs.
80.10
         21, 22, 27 and 28.
                     Thence I run
         N. 89 57 W. on a true line bet. secs. 21 and 28. Ascending rough N. E. slope of high ridge, through dense
         brush.
         Cross wash 8 lks. wide course N. E.
 8.50
         Cross wash 10 lks. wide course N. E.
11.50
29.50
         Ridge bears N. E. and S. W.
         Cross wash 5 lks. wide course N. E.
35.50
         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}S21 in N.
40.05
         S28 1913 in S. half; and raise a mound of stone 2 ft.
         base l\frac{1}{2} ft. high, N. of cer. Pits impracticable. Ridge bears N. W. and S. E. descend.
46.25
         Cross wash 8 lks. wide course S. W.
58.90
75.50
        .Cross wash 5 lks. wide course S. W.
         The cer. of secs. 20, 21, 28 and 29.
80.10
         Land, mountainous.
         Soil, rocky; 4th. rate.
         No timber.
         Undergrowth, blackbrush.
         January 30; At this cer. I set eff 17^{\circ} 38\frac{1}{2}. S. on the
         decl. arc; and observe the sum on the meridian at noon; the resulting lat. is 31^{\circ}/29\frac{1}{2} N.
         N. 0 0 02 W. bet. secs. 20 and 21.
         Ascend through dense brush.
20.30
         Ridge bears N. W. and S. E. descend.
         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 $\frac{1}{4}$S20 in W. S21 in E. and 1913 in S. half; and raise a mound of stone
40.00
         2 ft. base 1\frac{1}{2} ft. high, W. of cer. Pits impracticable.
67.20
         Ridge bears N. E. and S. W.
         Ridge bears N. E. and S. W. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked on
75.00
80.00
         brass cap
               T22SR23E in N. and
               1913 in S. half;
              S17 in N. W. S16 in N. E.
               S21 in S. E. and
               S20 in S. W. quadrant; and raise a mound of stone 2
         ft. base la ft. high, W. of cor. Pits impracticable.
```

Subdivision of Tp. 22 S. Rg. 23 E.

```
Chains
          Land, mountainous.
          Soil, rocky; 4th. rate.
          No timber.
          Undergrowth, blackbrush.
                                                         January 30, 1913.
          January 31: At 8h. 00m. a.m., 1.m.t., I set off 31 30! N. on the lat. arc; 17 23 S. on the decl; arc; and
          determine a meridian with the solar at the cor. of secs.
          16, 17, 20 and 21
                      Thence I run
          S. 89 57 E. on a random line bet. secs. 16 and 21. Set temp. 1 sec. cor.
Intersect N. and S. line 5 lks. S. of the cor. of secs.
40.00
79.98
          15, 16, 21 and 22.
                      Thence I run
          N. 89 ^{\prime} 59 ^{\prime} W. on a true line bet. secs. 16 and 21.
          Descend along S. W. slope.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 4816 in N. and S212 in S. half; and raise a mound of stone 2 ft.
39.99
          base 1^{17}_{2} ft. high, N. of cor. Pits impracticable.
          Cross wash 40 lks. wide course N. W. and over level land
41.30
          through dense brush.
          Cross telephone line bears N. W. and S. E.
46.20
          Cross telephone line bears N. W. and S. E.
47.80
49.60
          Cross road bears N. W. and S. E.
          Brush becomes scattering. Ascend.
60.00
          C. Themas house bears N. 13 45' E. The cor. of secs. 16, 17, 20 and 21. Land, mountainous and level.
73.50
79.98
          Seil, Rocky; 4th. rate, except from 41.30 chs. to 60.00
          chs. which is sandy loam, mixed with rocks; 2nd. rate.
          Wimber, walnut and cottonwood along wash.
          Undergrowth, oak and blackbrush.
                  02' W. bet. secs. 16 and 17.
         Descend through scattering brush.
 8.00
         Cross wash 8 lks. wide course N. E.
          Cross wash 50 1ks. wide course N. W. and over level land.
18.70
         Cross telephone line bears N. W. and S. . E. Cross telephone line bears N. W. and S. . E.
24.50
25.00
         Cross road bears N. W. and S. E. ascend.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S17 in W.

S16 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable. Ridge bears N. W. and S. E. descend.
28.00
40.00
57.00
          Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked on brass
80,00
              T22SR23E in N. and
              1913 in S. half;
              $8 in N. W. .
              S9 in N. E.
             S16 in S. E. and .S17 in S. W. quadrant; and raise a mound of stone 2
         ft. base la ft. high, W. of cor. Pits impracticable. Land, mountainous and level.
         Soil, rocky; 4th. rate.
          Timber, cottonwoods and walnut along wash.
         Undergrowth, blackbrush.
         January 31; At this cor. I set off 17\sqrt{21\frac{1}{2}}' S. on the
         decl. arc; and observe the sun on the meridian at neon;
```

the resulting lat. is 31 /31' N.

```
S. 89 59 E. on a random line bet. secs. 9 and 16 Set temp. $\frac{1}{4}$ sec. cor.
40.00
           Intersect N. and S. line 21 lks. S. of the cor. of secs.
79.90
           9, 10, 15 and 16,
                        Thence I run
           S. 89 52' W. on a true line bet. secs. 9 and 16.
          Descend through scattering brush.
          Ascend.
 10.00
          Ridge bears N. E. and S. W. descend.
20.40
          Cross wash 14 lks. wide course N. E.
28.05
          Ridge bears N. W. and S. E. descend.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1 sec. cor., marked on brass cap 459 in N. and S16 1913 in S. half; and raise a mound of stone 2 ft.
37.60
39.95
          base 1\frac{1}{2} ft. high, N. of cor. Pits impracticable.
          Cross road bears N. E. and S. W.
48.20
          Cross wash 5 lks. wide course .N. E. ascend.
49.50
           The cor. of secs. 8, 9, 16 and 17.
79.90
          Land, mountainous.
           Soil, rocky; 4th. rate.
           No timber.
           Undergrowth, blackbrush.
                                                            January 31, 1913.
           February .13:
           N. 0 02! W. bet. secs. 8 and 9.
           Descend through scattering brush.
           Cross wash 5 lks. .wide course N. E. ascend.
13.00
          Ridge bears N. W. and S. E.

Cross wash 15 lks. wide course N. W. ascend.

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 $\frac{1}{4}$S8 in W.

S9 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Ridge bears N. W. and S. E. And along E. slope.
19.00
27.90
40.00
           Ridge bears N. W. and S. E. And along E. slope.
Ridge bears N. E. and S. W. descend.
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
42.50
70.50
80.00
                T22SR23E in N. and
                1913 in S. half;
                S5 in N. W.
                S4 in N. E..
                S9 in S. E. and.
S8 in S. W. quadrant; and raise a mound of stone 2 ft.
           base la ft. high, W. of cor. Pits impracticable.
           Land, mountaineus.
           Soil, rocky; 4th. rate.
           No timber.
           Undergrowth, blackbrush.
           N. 89 52' E. on a random line bet. secs. 4 and 9 Set temp. 4 sec. cor.
40.00
           Intersect N. and S. line 16 lks. N. of the cor. of secs.
80.02
           3, 4, 9 and 10.
                         Thence I run
           S. 89 59' W. on a true line bet. secs. 4 and 9.
           Over rolling land, through dense brush.
           Cross wash 25 lks. wide course N. W.
19.40
           Cross wash 10 lks. wide course N. W. and over level land. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1 sec. cor., marked on brass cap 484 in N. and S9 1913 in S. half; dig pits 18 x 18 x 12 ins. E. and
27.50
40.01
           W. of post 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base 1\frac{1}{2} ft. high, N. of cor.
```

```
Subdivision of Tp. 23 S. Rg. 23 E.
```

```
Chains
           Cross read bears N. W. and S. E.
49.15
           Cress road beass N. W. and S. E..
53.20
60.00
           Ascend.
73.90
           Ridge bears N. and S. descend.
           The cor. of secs. 4, 5, 8 and 9.
80.02
           Land, level and rolling and mountainous.
           Soil, rocky; 4th. rate; except from 27.50 to 60.00 chs. which is sandy loam, dry; medium texture; 1st. rate.
           No timber.
           Undergrowth, blackbrush and mesquite.
                                                                     February 13, 1913.
          February 14:

N. 0° 02' W. on a random line bet. secs. 4 and 5.

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

Intersect N. bdy. of Tp. 7 lks. E. of the cor. of secs.
40.00
           4, 5, 32 and 35, established by me, as described in book "U." Thence I min
80.06
                     Thence I run
          S. 0 05' E. on a true line bet. secs. 4 and 5. Over level land, through dense brush.
24.25
           Cross wash 20 lks. wide course N. W.
30.00
           Over relling land.
          Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S5 in W. S4 in B. and 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{8} ft. high, W. of cor. Pits impracticable.
40.06
52.50
           Cross road bears N. W. and S. E.
           Cross road bears N. W. and S. E. ascend.
53.80
           The cor. of secs. 4, 5, 8 and 9.
80,06
           Land, level, rolling and mountainous. Soil, rocky; 4th. rate. except N. 30 chs. which is rich
           sandy leam, dry, medium texture; 1st. rate.
           No timber.
           Undergrowth, mesquite and blackbrush.
                                                             February 14, 1913.
          February 1: At.8h. 00m.a.m., 1.m.t., I set off 31 27\frac{1}{2}! N. on the lat. arc; 17 06' S. on the decl. arc; and
          determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp., described in book "U" Thence I run

N. 0 03' W. bet. secs. 31 and 32.
          Over rolling land, through dense brush.
13.80
          Cress wash 10.1ks. wide.course S..W.
           Cross road bears N. E. and S. W.
17.75
           Cress wash 13 1ks. wide course S. W.
23.15
          Cross road bears N. E. and S. W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
27.65
40,00
          ground for \frac{1}{4} sec. cor. marked on brass cap \frac{1}{4}S31 in W. S32 in E. and 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
           Ascend.
49.40
          Ridge bears N. W. and S. E. descend.
           Over relling land.
60.00
          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
80.00
           brass cap
                 T22SR23E in N. and
                 1913 in S. half;
                 S30 in N. W.
                 S29 in N. E.
                 S32 in S. E. and
```

\$31 in S. W. quadrant; and raise a mound of stone 2

ft. base la ft. high, W. of cor. Pits impracticable.

```
Land, rolling and mountainous...
            Seil, rocky; 4th. rate.
            No timber.
            Undergrowth, blackbrush and greasewood. February 1: At this cor. I set off 17 \ 04\frac{1}{2} S. on the
            decl. arc; and observe the sun on the meridian at noon;
            the resulting lat. is 31 \sqrt{28\frac{1}{2}} N.
           East on a random line bet. secs. 29 and 32
           Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line 14 lks. S. of the cor. of secs.
40.00
79.98
           28, 29, 32 and 33
                         Thence I run
                    54' W. on a true line bet. secs. 29 and 32.
           S. 89
          Descend along S. slope, through dense brush. Cross wash 8 lks. wide course. N. W. ascend.
17.90
           Ridge bears N. W. and S. E. descend.
39.60
          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 N. and $\cdot S32$ 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
39.99
58.00
           Ascend.
          Ridge bears N. W. and S. E. descend.
65.00
           The cor. of secs. 29, 30, 31. and 32.
79.98
           Land, mountainous.
           Soil, rocky; 4th. rate.
           No timber.
           Undergrowth, greaseweed and blackbrush.
                                                                   February 1, 1913.
           February 2: At 8h. 00m. a.m., l.m.t., I set off 31 \times 28\frac{1}{2}. N. on the lat. arc; 16 \times 49. S. on the decl. arc; and
           determine a meridian with the solar at the cor. of secs.
           29, 30, 31 and 32.
                       Thence I run
           West bet. secs. 30 and 31.
           Ascend along S. Slope of ridge, through dense brush. Ridge bears S. W. and N. E. descond.
 9.90
20.00
           Over relling 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}S30 in N. and S31 1913 in S. half; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, N. of cor. Pits.impracticable..
40.00
           Cross wash 5 lks. wide course S. W.
43.30
79.35
           Intersect W. bdy..ef Tp. 5.11 chs. S. of the cor. of secs.
           25 and 36, which is a stone marked and witnessed as described by the surveyor general. Attractional set and iron post 3 ft. long, 2 ins. diam., 24 ins.
           in the ground for caesing cor. of secs. 30 and 31, marked
           on brass cap
               CC W. of center;
T225/in N.
                S25 S36 R22E in W. and
                1913 in S. half;
                S30 in N. E. and
           S31R23E in S. E. quadrant; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, E. of cor. Pits impracticable.
           Land, rolling and mountainous. Soil, rocky; 4th. rate.
           No timber.
           Undergrowth, greasewood and blackbrush.
```

Subdivision of Tp. 22 S. Rg. 23 E.

```
hains
           N. 'O
                   03' W. bet. secs. 29 and 30.
           Ascend through dense brush.
           Ridge bears E. and W. descend.
  2.50
  7.00
           Over rolling land.
           Cress wash 5 lks. wide course M. W.
38.30
          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}S30 in W. S29 in E. and 1913 in S. half; and raise a mound of stone
40.00
           2 ft. base la ft. high, W. of cor. Pits impracticable.
63.00
           Cress wash 20 lks. wide course N. W.
          Cress wash 5 lks. wide course N. W.. .
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
76.50
80.00
          brass cap
               T22SR23E in N. and
               1913 in S. half;
               S19 in N. W.
               S20 in N. E.
               S29 in S. E. and
          S30 in S. W. quadrant; and raise a mound of stone 2 ft. base l\frac{1}{2} ft. high, W. of cor. Pits impracticable.
          Land, rolling and mountainous.
          Soil, rocky; 4th. rate.
          No timber.
          Undergrowth, greasewood and blackbrush.
          February 2: At this cor. I set off 16 \, ^{\vee} \, 47\frac{1}{2} S. on the
          decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 31_{p} 29\frac{1}{2} N.
          N. 89 54 E. on a random line bet. secs. 20 and 29. Set temp. 4 sec. cor.
40.00
          Intersect N. and S. line 9 lks. S. of the cor. of secs.
79.94
          20, 21, 28 and 29.
                       Thence I run
          S. 89 50 W. on a true line bet. secs. 20 and 29.
          Descending along rough S. W. slope of high ridge, through
          dense brush.
27.00
          Cross wash 10 lks. wide course S. W.
          Set an iron post 3 ft. long, 1 in. diam:, 26 ins. in the ground for 1 sec. cor., marked on brass cap 4520 in N. and S29 1913 in S. half; and raise a mound of stone 2 ft.
89,97
          base 12 ft. high, N. of cor. Pits impracticable.
          Cross wash 8 lks. wide course S. W.
52.30
          Cross wash 6 lks. wide course S. W. The cor. of secs. 19, 20, 29 and 30.
66.70
79.94
          Land, mountainous.
          Soil, rocky; 4th. rate.
          No timber.
          Undergrowth, greasewood and blackbrush.
                                                            February 2; 1913.
          February 3: At 8h. 00m. a.m., l.m.t., I set off 31 29\frac{1}{2}! N. on the lat. arc; 16\sqrt{312}! S. on the decl. arc; and
          determine a meridian with the solar at the cor. of secs.
          19, 20, 29 and 30.
                      Thence I run
          West bet. secs. 19 and 30.
          Over rolling land, through dense brush.
 4.30
          Cross wash 6 lks. wide course N.W.
20.00
          Cross wash 10 lks. wide course S. W.
         Cross wash 6 lks. wide course N. W. ascend. 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 \( \frac{1}{4} \)S19 in N. and S30 1913 in S. half; and raise a mound of stone 2 ft.
39.80
40.00
```

base $1rac{1}{2}$ ft. high, N. of cor. Pits.impracticable.

Ridge bears N. W. and S. E. descend.

75.25

21.30

```
Intersect W. bdy. of Tp. 5.09 chs. S. of the cor. of secs.
79.20
          24 and 25, which is a stone marked and witnessed as
          described by the surveyor general; and
          Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
          ground for closing.cor. of secs. 19 and 30, marked on .
          brass cap
              CC W. of center;
              T22S in N.
1913 in S. and
              S24S25R22E in W. half;
              S19 in N. E. and
          S30R23E in S. E. quadrant; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, E. of cor. Pits impracticable. Land, rolling and mountainous. Soil, rocky; 4th. rate.
          No timber.
          Undergrowth, greasewood and blackbrush. February 3: At this cor. I set off 16 / 30' S. on the declarc; and observe the sun on the meridian at noon; the
          resulting lat. is 31 \sqrt{29\frac{1}{3}} N.
          N. 0 '03' W. bet. secs. 19 and 20.
          Over rolling land, through dense brush. Cross wash 10 lks. wide course N. W.
 3.00
          Cross wash 8 lks..wide course N.W. ascend.
 5.00
          Ridge bears N. E. and S. W. descend.
Cross wash 10 lks. wide course N. W. and over rolling
19.00
35.90
          land.
          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 \( \frac{1}{2} \)S19 in W. S20 in E. and 1913 in S. half; and raise a mound of stone
40.00
          2 ft. base 12 ft. high, W. of cor. Pits impracticable.
57.20
          Cross wash 8 lks. wide course W.
          Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked on
80.00
          brass cap
              T22SR23E in N. and
              1913 in S. half;
             S18 in. N. W.
             S17 in N. E.
          S20 in S. E. and
S19 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 cer.
          Land, mountainous and rolling.
          Scil, rocky; 4th. rate.
          No timber.
          Undergrowth, greasewood and blackbrush.
                                                            February 3, 1913.
          February 4: At 8h. 60m. a.m., l.m.t., I set off 31 30'N. on the lat.arc; 16. 14'.S. on the decl. arc; and
          determine a meridian with the selar at the cor. of secs.
          17, 18, 19 and 20.
Thence I run
          N. 89 50 E. on a random line bet. secs. 17 and 20. Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line 9 lks. N. of the cor. of secs.
40.00
79.90
          16, 17, 20 and 21..
                    Thence I run
          S. 89
                   54' W. on a true line bet. secs. 17 and 20.
          Ascend through scattering brush.
          Ridge bears N. W. and S. E. descend.
 7.30
          Cross wash 8 lks. wide course N.W.
17.60
19.70
          Cross wash 5 lks. wide.course N. W.
          Cross wash 6 lks. wide course N. W. ascend.
```

Subdivision of Tp. 22 S. Rg. 23 E.

```
35.20
           Ridge bears N. E. and S. W. descend.
          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}S17 in N. and S20 1913 in S. half; and raise a mound of stone \frac{1}{2}
39,95
           ft. base l_{2}^{\frac{1}{2}} ft. high, N. of cor. Pits impracticable.
          Over relling land, through dense brush. The cor. of secs. 17, 18, 19 and 20. Land, mountainous and relling.
65.00
79.90
           Soil, rocky; 4th. rate.
           No timber.
           Undergrowth, greasewood and blackbrush.
          West bet. secs. 18 and 19.
          Over relling land, through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \( \frac{1}{4} \) sec. cor., marked on brass cap \( \frac{1}{4} \)Sl8 in N.
40.00
          and S19 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
          of post 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft.
          base 12 ft. high, N. ef.cor.
Cress read bears N. E. and S. W.
Intersect W. bdy. ef Tp. 4.90 chs. S. of the cor. ef secs.
59.20
79.00
          13 and 24, which is a stone marked and witnessed as
          described by the surveyor general; and
          set an iren post 3 ft. leng, 2 ins. dimm. 24 ins. in the
          ground for closing cor. of secs. 18 and 19, marked on
          brass cap
                CC W. of center;
                T22S in N.,
                1913 in S. and.
                S13S24R22E.in W. half;
                 S18 in N. E. and
                 S19R23E in.S. E. quadrant; and raise a mound of stone
          2 ft. base 12 ft. high, E. of cor. Pits impracticable.
          Land, rolling.
          Soil, rocky; 4th. rate.
          No timber.
          Undergrowth, greasewood and blackbrush. February 4: At this cor. I set off 16 12' S. on the
          decl. arc; and observe the sun on the meridian at noon;
          the resulting lat. is 31,30' N.
          N. 0 03^{\circ} , W. bet. secs. 17 and 18.
          Over rolling land, through dense brush.
          Cress road bears N. E. and S. W.
39.90
          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}S18 in W. S17 in E. and 1913 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise amound of earth 3\frac{1}{2} ft. base 1\frac{1}{2} ft. high, W. of cor.
40.00
          Ascend.
49.10
          Ridge bears N. W. and .S. E. descend.
          Cress wash 20 lks..wide course N. W. ascend. Cress read.bears.N. W. and S. E.
60.10
61.60
          Cress telephene line bears N. W. and S. E.
63.2Q
63.40
          Cross telephone line bears N. W. and S. E.
         Ridge bears N. E. and S. W. descend.
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
77.60
80,00
               T22SR23E in N. and
              1913 in S. half;
              S7 in N. W.
              S8 in N. E.
              S17 in S. E. and
              S18 in S. W. quadrant; and raise a mound of stone 2 ft.
```

base la ft. high, W. of cor. Pits impracticable.

Land, rolling and mountainous.

```
Soil, rocky; 4th. rate.
          He timber.
          Undergrowth, greasewood and blackbrush.
                                                      February 4, 1913.
          February 5: At 8h. 00m. a.m., l.m.t., I.set off 31 31' Non the lat. arc; 15: 56' S. on the decl. arc; and
          determine a meridian with the solar at the cor. of secs.
          7, 8, 17 and 18,
                     Thence I run
          N. 89 \sqrt{54} E. on a random line bet. secs. 8 and 17.
         Set temp. \frac{1}{4} sec. cer.
40.00
79.88
         Intersect N. and S. line 19 1ks.N. of the cor. of secs.
         8, 9, 16 and 17...
                     Thence I run
         N. 89^{7}58^{1} W. on a true line bet. secs. 8 and 17.
         Ascend.
         Ridge bears N. E. and S. W. descend.
 2.00
         Cress wash 6 lks. wide course N. W. ascend.
14.30
         Ridge bears N. E. and S. W. 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 \( \frac{1}{4} \)S8 in N. and S17 1913 in S. half; and raise amound of stone 2 ft.
22,90
39.94
         base 1\frac{1}{2} ft. high, N. of cor. Pits impracticable.
         Through dense brush.
         Cross wash 5 lks. wide course N. W.
43.40
         Ridge bears N. W. and S. E. descend..
46.60
58.90
         Cross wash 6 lks. wide course N. W. ascend.
68.20
         Ridge bears N. W. and S. E. descend.
72.00
         Ascend.
         Ridge bears N. W. and S. E. descend.
76.50
         The cor. of secs. 7, 8, 17 and 18.
79.88
         Land, mountainous.
         Soil, rocky; 4th. rate.
         No timber.
         Undergrowth, greasewood and blackbrush.
                                                      February 5, 1913.
         February 6: At 8h. 00m. a.m., l.m.t., I set off 31 31' N. on the lat. arc; 15\sqrt{37\frac{1}{2}}' S. on the decl. arc; and
         determine a meridian with the solar at the cor. of secs.
          7, 8, 17 and 18.
                    Thence I run
         West bet. secs. 7 and 18.
         Over rolling land, through dense brush.
         Cross telephone line bears N. E. and S. W. Cross telephone line bears N. W. and S. E.
21.20
24.10
         Cress road bears N. W. and S. E. and over level land.
24.50
30.30
         Cress read bears N. W. and S. E.
         Cross read bears N. W. and S. E..
33.50
         Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1 sec. cor., marked on brass cap 157 in N. and S18 1913 in S. half; dig pits 18 x 18 x 12 ins. E.
40.00
         and W. of post 3 ft. dist., and raise a mound of earth. 3\frac{1}{2} ft. base 1\frac{1}{2} ft. high, N. of cor.
45.00
         Ascend.
         Top of round hill, descend.
51.20
         Over level land.
60.00
         Intersect W. bdy. of Tp. 5.16 chs. S. of the cor. of secs. 12 and 13, which is which is a stone marked and witnessed
79.02
         as described by the surveyor general. I fill pits on E.
         of cer. and
         Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
         ground for closing cer. of secs. 7 and 18, marked on brass
```

cap

```
Chains.
                 CC W. of center:
T22S in N.
1913 in S. and
                 S12S13R22E in W. half;
                 S7 in N. E. and
            S18R23E in S. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, N. and S. 3 ft., and E. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, E. of cor.
            Land, mountainous, rolling and level.
            Seil, rocky; 4th. rate: Except from 24.50 chs. to 45.00
            chs. and from 60.00 chs. to 79.02 chs. which is a sandy
            leam, dry, medium texture; 1st. rate.
            No timber.
            Undergrowth, greasewood and blackbrush.
                                                                      ·February 6, 1913.
            February 14: At.8h. 00m. a.m., l.m.t., I set off 31 N. on the lat. arc; 13 Y02 S. on the decl. arc; and
            determine a meridian with the solar at the cor. of secs.
            7, 8, 17 and 18,
                         Thence I run
                    03' W. bet. secs. 7 and 8.
            M . 0
           Over rolling land through dense brush.

Cross wash 8 lks. wide course N. W.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1 sec. cor., marked on brass cap 157 in W.

S8 in.E. and 1913 in S. half; dig pits 18 x 18 x 12 ins.
 12.50
 40.00
            N. and S. of post 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base 1\frac{1}{2} ft. high, W. of cor.
            Over level land.
            Cross read bears N. W. and S. E. Set an iron.pest 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked on brass
 63.10
 80.00
            cap
                 T22SR23E in N. and
                 1913 in S. half;
               \sim S6 in N. W.
                S5 in N. E.
S8 in S. E. and
S7 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, rolling and level.
            Soil, rocky and gravelly; 3rd. and 4th. rate.
           No timber.
           Undergrowth, greasewood and blackbrush.
            S. 89 58 E. on a random line bet. secs. 5 and 8. Set temp. \frac{1}{4} sec. cor.
40.00
            Intersect N. and S. lime 12 lks. S. of the cor. of secs.
 79.78
            4, 5, 8 and 9.
                       Thence I run
            S. 89^{\circ} 57^{\circ} W. on a true line bet. secs. 5 and 8.
           Descend through dense brush.
           Over level land.
15.00
           Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4}S5 in N. and S8 1913 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 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. E. and S. W.
39,89
44.90
79 • 78
           The cor. of secs. 5, 6, 7 and 8.
           Land, mountainous and level.
           Soil, E. 15.00 chs. rocky; 4th. rate.
```

15.00 chs. to 79.78 chs. sandy loam, mixed with gravel; 2nd. rate. No timber. Undergrowth, greasewood and blackbrush. West bet. secs. 6 and 7. Over level land, through dense brush. Cross road bears N. W. and S. E. 7.80 23.20 Cress telephone line bears. N. and . S. Cross draw 60.1ks. wide course N. W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor. marked on brass cap 486 in N. and 39.60 40.00 S7 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Cross wash 10 lks. wide course N. W. Intersect W. bdy. of Tp. 65.37 chs. S. of the cor. of secs. 59.10 78.86 1 and 12, which is a stone marked and witnessed as described by the surveyor general, and Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 6 and 7, marked on brass CC W. of center; T22S in N. 1913 in S. and SIS12R22E in W. half; S6 in N. E. and. S7R23E in S. E. quadrant; dig pits 24 x 24 x 12 ins. crosswise on each line, N. and S. 3 ft. and E. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, E. of cor. Land, level.
Soil, sandy leam, mixed with gravel; 2nd. rate. No timber. Undergrowth, greasewood and blackbrush. N. 0 03' W. on a random line bet. secs. 5 and 6.

Set temp. ½ sec. cor.

Intersect N. bdy. of Tp. 28 lks. E. of the cor. of secs.

5, 6, 31 and 32, established by me, as described in book

"U." Thence I run

S. 0 15' E. bet. secs. 5 and 6. on a true line.

Over level land, through dense brush.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ½ sec. cor., marked on brass cap ½\$6 in W. and

S5 in E. and 1913 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist. and raise a mound of earth 3\frac{1}{2} 40.00 79.98 39.98 and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor. The cor. of secs. 5, 6, 7, and 8. 79.98 Land, level. Seil, sandy leam, dry, medium texture; 1st. rate. No timber. Undergrewth, greaseweed and blackbrush. February 14, 1913.

Subdivision of Tp. 22 S. Rg. 23 E.

GENERAL DESCRIPTION.

This township is extremely rough and mountainous, except

in the extreme N. W. cor. and along the W. boundary.

The soil is generally rocky and worthless except for small tracts in Tombstone Canyon in which the soil is a rich black loam, very fertile. There is running water in Tombstone Canyon during the wet seasons.

Oak, juniper and pinen timber grows in the S. E. part of the township.

There is one settler in sec. 14, one in sec. 16, one in sec. 15, one in sec. 21 one in sec. 26 and two in sec. 27.

Mining has been carried on in secs. 4 and 22 but there seems to be no trace of mineral.

ohn 4. Hesa U. S. Surveyor.

DERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby		Surveyor, during the per		
stated opposite our several signa	•	•		
Subdivision lines of				
And the second s	·	 -		
Santana Baran da Parisa			·	
************************************	- 		·	
ere en marios		· · · · · · · · · · · · · · · · · · ·	·	
of the Gila and Salt Ri	Ranand			
which are represented in the fore	egoing field notes as l	naving been executed by	him, and under his direc	
tion; and that said survey has	been, in all respects,	to the best of our knowle	edge and belief, well an	
faithfully executed.				
NA REEL	PERI	PERIOD OF SERVICE.		
NAME.	Begun.	Ended.	CAPACITY.	
AF Ridge	· Qec. 23, 19	12 Peb. 8, 1913 18 Peb. 8, 1913	Plagman	
B brone.	Jan 8, 19	13 Peb. 8, 1913	Cornerman	
Work brane	Jan 8 19	13 Reb. 8, 1913	an and	
I & Lan	8.14 6 19	12 Peb. 14, 1913	Chriman	
y a dan				
F. G. Gegra		112 Peb. 14, 1913		
Je J Tugles	42b. 9, 19	13 Peb. 14, 1913 13 Peb. 14, 1913	Plagman	
B.S. Jackson	. Peb. 9, 19	13 Peb. 14, 1913	axman	
6 D Thomas	· Pel. 9, 19,	13 Peb. 15, 1913	Cornerman	
		·		
सिक्त कुर्नक भी एक गाँउ । प्र				
and been easier lebel hans on their	4. 1			
na ka ka manakan garanteratan berana da ka ka aka manakan da ka ka ka manakan da ka ka manakan da ka ka ka ka 		1		

BOOK 2712 FINAL OATH OF UNITED STATES SURVEYOR.

I,John F. Herse, U. S. Surveyor, do solemnly swear that, in pursuance
of special instructions received from the U.S. Surveyor General for Arizona. far Group 5
bearing date of the 24th day of August , 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 ofthe
- 劉德國王 등 그 사람들은 그는 사람들은 아이를 가는 어느 아니는 아이를 가는 것이 없는 것이다.
subdivision lines of Tp. 22 S. Rg. 23 E.
<u> </u>
of the Gila and 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
General for Arizona. for Group 5 and in the specific manner described in the field notes, and that
the foregoing are the original field notes of such survey.
John F. Hesse U. S. Surveyor.
political participation of the contract of the
O. L. Marie
Subscribed by said John Hesse, and sworn to before me this day of August, 1914
this 4th day of Cluquet, 1914
Mant Ingach
Surveyor General of Arizona
APPROVAL.
Owner of the Hymne States Syrvey Charles
Office of the United States Surveyor General,
Phoenix Arizona, Nov 14, 1914
The foregoing field notes of the survey of the Subdivision lines of
Township Nº 22 South Range Nº 23 East
as the Gila and Calt River Base and Maridian
of the Gila and Salt River Base and Meridian in the State of Arizona
II) THE STATE OF MITZONA
executed by John F. Hesse, U.S. Surveyor
executed by John F. Herse, U.S. Surveyor under his special instructions dated August 24, 1911 for Group 5, the having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
Chank I ingall
#. Surveyor General.
I certify that the foregoing transcript of the field notes of the above described surveys in
, has been correctly copied from the original notes on file in this office.