Accepted G.L.O. letter "E" Nov. 19-1913

OF THE SURVEY OF THE

| East Boundary of Township 42 North, Range 15 West, |
|--|
| East boundary Township 41 North, Range 15 West, |
| 10th Standard Parallel North, through Range 15 West, |
| Portion West Bdy. Township 41 North, Range 15 West, |
| West Boundary Township 40 North, Range 15 West, |
| Portion of South Bdy. Township 40 North, Range 15 West, |
| South Boundary Township 40 North, Range 16 West, |
| South Boundary Township 39 North, Range 16 West, |
| East Boundary Township 39 North, Range 16 West, |
| |
| • |
| • |
| Of the Gila and Salt River Base and Meridian, |
| In the State ofArizona, |
| EXECUTED BY |
| Thomas B. Matthews, |
| |
| |
| In the capacity of U.S. Surveyor, under instructions dated June 6, , 1912, |
| issued by the United States Surveyor General to govern surveys included in |
| Group No. 21 , which were approved by the Commissioner of the General Land |
| Office, June 20, , 1912, pursuant to authority contained in the Act of |
| Congress dated August 24, 1912. |
| Survey commencedNovember 30,, 191_2. |
| Survey completed |

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Retracement of Mile 311 Utah-Arizona State Boundary

Chains.

Survey commenced Nov.19, 1912, and executed by Thomas B. Matthews, U.S. Surveyor, with a Young & Son's Light Mountain Transit, No.8480, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of latitude and declination arcs of the solar.

The instrument was approved by Frank M. Johnson, Supervisor of Surveys, on Oct. 28, 1912, conditional upon satisfactory field test, which last occurred on the meridian at the Surveyor General's office at Phoenix, Arizona,

Nov.12,1912.

I examine the adjustment of the transit and correct the levels; then to test the solar apparatus by comparing its indication 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 the witness cor. to 10 mile cor. on Utah-Arizona State

Bdy., which is a limestone 30x10x10 ins., firmly set in a mound of stone, and marked and witnessed as described by the Surveyor-General, the same being at Latitude 37° N.; longitude, 113° 51' 54" W., I set off 37° N. on the latitude arc; 19°30'S. on the decl.arc; and at 4h.15m.p.m., 1.m.t., determine with the solar

and at 4n.17m.p.m., 1.m..., determine with a meridian, and mark a point thereon, on a stone in place about 10 chs. N.of my station.

At 7h. 30m., p.m., 1.m.t., I observe Polaris in accordance with Manual or Instructions, and mark a point in the line thus determined by cutting a cross (x) on a rock

in place about 10 chs. N.of my station.

Nov. 19,1912.

Nov. 20, 1912.
At 7h. 30m.a.m., 1.m.t, I lay off the azimuth of Polaris
45 to the west, which line intersects the point marked on the meridian as determined by solar observation,

At 8h.0m.a.m., l.m.t., I set off 37° N.on the latitude arc; 19°39'S.on the decl.arc. The meridian thus determined with the solar intersects the point marked on the meridian determined Nov.19.

The solar apparatus by both p.m.and a.m. observations defineing position for meridian the same as that established by Polaris observation, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.10m.a.m., 1.m.t. is N.16°30'W.; the angle thus determined gives the mag. decl. 16°30'E.

From the witnessacorner to 10 mile cor., Utah-Arizona State Bdy. above described; I retrace

East on random line along 11th mile, Utah-Arizona State Bdy.

Set temp. closing cor.
Fall 1 lk.S of 11 mile cor., which is a limestone 12x10x12
ins. above ground, firmly set, marked and witnessed as described by the Surveyor General, Thence I run,

West on true line along 11th mile of Utah-Arizona State Bdy., ascending east slope, over very rocky land.

18.00 46.00

50.00

Top of high spur, bears N. and S.; descend 600 ft.

Bottom of rocky canon, dry wash, 15 lks.wide, course N.

45°W.; ascend along N.slope.

Top of spur, descend NW. slope, 300 ft.

Bottom of canyon, dry wash, 10 lks.wide, course north;

ascend east slope 500 ft.

Set an iron post 4 ft long 2 inc. in disc. 55.00

Set an iron post 3 it. long, 3 ins. in diam., 24 ins. in ground for closing cor. to T.42 N., Rs.14 and 15 W., 59.30 with a brass cap, marked C C S of center, T 42 N in S.half;

```
Chains
                                   S 31 R 14 W in SE.,
S 36,R 15 W in SW. quadrant; raise a mound
of stone 4 ft.base, 3 ft. high,S.of cor.
Top of ascent; thence along rocky N. slope.
                     64.00
                     65.25
                                   The witness corner to 10 mile corner, hereinbefore de-
                                         scribed.
                                   Land, broken, mountainous.
                                   Soil, very rocky and thin; good bunch grass among the
                                         rock,
                                   No timber.
                                   East Boundary of Township 42 North, Range 15 West.
                                  At the closing corner of T.42 N., Rs. 14 and 15 W., I set off 19°44'S. on the decl.arc, and at 11h.45m.41s., 1.m.
                                  t., I observe the sun on the meridian; the resultant lat. is 36° 59'N. or within 1' or the proper lat. From closing corner already described, I run south, bet.
                                         secs. 31 and 36, ascending 500 ft. along steep, rocky
                                         NE. slope of Beaver Dam Mountain.
                                  Top of ridge, slopes north 10°W., thence along west slope. Set an iron post 3 it. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec.cor., with a brass cap, marked \(\frac{1}{4}\) S 36 in W., and

S 31 in E.half; raise a mound of stone 3
                     17.40
                     19.55
                                  ft.base, 3 ft. high, W. of cor.

Descend rocky south slope, 600 ft. into canyon.

Bottom of canyon, dry wash 20 lks.wide, course W.; ascend N.slope, 500 ft.
                     22.00
                     34,00
                     42.65
                                   Top of spur, slopes west; descend rocky south slope,100
                                         ft.
                                   Edge of steep rocky canyon 1000 ft. deep, inpractical to chain across same. To determine the distance across
                     45.32
      State Bdu
                                         same I set a flag on line on rocky spur on opposite
                                         side of canyon; thence measure a base line, east 15 chs. to a point where the flag bears $.25° 31'W.:from the flag the east end of the base bears N.25° 31'E.;by separate measurement of each angle they are found respectively 90°, 64° 29° and 25°31° their sum being 180°
  Sec. 36 = 4
T.42N. 8
                     42N.
                      R. 14 W.
                                         I compute the distance around the canyon as follows:
       45.32
                                   15 chs. = 31.42 chs., which makes total distance tan.25°31'
(45.32 chs. + 31.42 chs.) = 76.74 chs. to W.U. to cor. to Tps.41 and 42 N., Rs. 14 and 15 W., 17.19 chs.S.of
    Cor.pt.59.59
                                   cor.point, at The point for the cor.of Ts. 41 and 42 N., Rs. 14 and 15 W.
                     59.55
            +4cor. p
                                         inaccessible land, broken, mountainous; soil, rocky,
                      Sec.6
                                         very thin.
             55.20
55.80
                                     East Boundary of Township 41 North, Range 15 West.
                                   From the true point for the cor. of Tps. 42 N., Rs. 14 and
                                   15 W., south on triangulation noted above, bet. secs. 1 and 6, T.41 N., Rs.14 and 15 W., ascending 700 ft. along steep rocky side of Beaver Dam Mountain.

Top of narrow rocky spur, brs. NW., and SE., pt. where I set rlag for above triangulation.
                     17.19
                                  Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for witness cor. to cor. of Tps.41 and 42.

N., Rs.14 and 15 W., with a brass cap, marked

W.C., S. of Center,

T. 41 N in S., and

R. 15 W in West half,
                                                                 S 36 in NW.,
                                                                 S 31 in NE.,
S 6 in SE., and
```

Retracement of Mile 311. Utah-Arizona State Moundary

```
East Boundary of Township 41 North, Range 15 West.
 Chains
                                     S 1 in SW.quadrants, and raise mound of
                 stone south of cor.
            Descend Sw. slope of Beaver Dam Mountain 3500 it.; impractical to chain down same; to determine the distance
               . down same, I set a flag on line in level valley at root
                 of mountain, then measure a base from said rlag west
                 25.00 chs. to a point from which the witness cor. t Ts. 41 and 42 N., Rs.14 and 15 W. bears N.27° 54 E.
                 I compute the distance down the mountain said as fol-
                 lows:
            tan. 27°54' or log. 25 = 1.397940
tan. 27°54' = 9.
                                                              - 9.723849
1.674096 = log.47.22 chs.
                 which makes total distance, Tp. cor.pt. to flag at ft.of Mt. (17.19 chs. + 47.22 chs.) = 64.41 chs.from which pt. I run back N.9.21 chs. to
            Ft. of steep descent, SW. slope of Beaver Dam Mountain.
 55.20
            Thence I run, south, continuing measurements from cor.
pt. for Tp. cor. Tps. 41 and 42 N., Rs. 14 and 15 W.
Set iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to \(\frac{1}{4}\) sec.cor., with a brass
55.80
                 cap, marked
                                    W C \frac{1}{4} in N. half;
S 6 in SE., and
           S 1 in SW. quadrants; raise a mound of stone 3 ft. base, 3 ft. high, W. of cor.

Descend SW. slope 100 ft.
           Foot of Beaver Dam Mountain, thence over level valley
60.00
                land, through shellac brush, 1 to 2 ft. high. Rocky
            soil, 2 to 3 ft. deep.
Pt. where I set flag for above triangulation.
64.41
           Dry wash, 20 lks.wide, course west, ascend 400 ft.
65.00
           Top of ridge, brs. E. and W.; descend SW. slope, 400 rt. Point for cor. of secs. 1,6,7 and 12, falls on solid rock;
73.57
80.00
                impractical to set iron post, cut cross (x) on rock at exact cor. point, and raise mound of stone 3 ft.base,
                3 ft.high, west of cor.peint.
                                                                      Nov.20,1912.
           Nov. 21. At 9h. 30m. 1.m.t., I set off 36° 58½ N. on the lat.arc; 19°55 S. on the decl.arc, and determine a meridian with the solar at the point for cor. of secs.
                1,6,7 and 12 above described.
           Thence I run,
South, bet. secs.7 and 12, descending SW. slope, over rocky
land, through shellac brush 2 to 3 ft.high; soil, rocky.
           Foot of descent; thence over level rocky valley land.
Set iron post 3 ft. long, 3 ins. in diam., 24 ins. in the
 6.00
 6.50
                ground for witness contacotof secs. 1,6,7 and 12, with a
                brass cap,
                                    marked
                                    W C S of center,
                                    T 41 N in N.half
           R 15 W, S 1 in NW.,
R 14 W, S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrants, and raise mound of
stone 3 ft. base, 3 ft. high, W. of cor.
Dry wash, 100 lks.wide, course W.; ascend 800 ft. over
17.50
                rocky mountain side.
36.46
           Top of rocky ridge, bears N.45°W., and S.45°E.; descend 500 ft. over very rocky mountain side.
           Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for a sec.cor., with a brass cap, marked
40.00
                                    \frac{1}{4} S 12 in W., and S 7 in E.half; raise mound of stone 3 ft.
                                    ¼ S 12 in W.
                base, 2 ft. high, Woof cor.
           Dry wash, 15 lks. wide, course S.80° W.; ascend NW.slope, 400 ft.
41.00
```

0.50

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East boundary of Township 41 North. Range 15 West
Chains.
           Top of rocky spur, slopes W., descending SW. slope,500 ft. Dry wash, 10 lks.wide, course W.; ascend 450 ft. Top of spur slopes W.; descend 400 ft.
50.00
57.00
70.50
77.00
           Dry wash, 10 lks.wide, course N.70°W.; ascend N. slope
                500 ft.
           Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7:12,13 and 18, with a
80.00
                brass cap, marked
                                    T 41 N in N.half,
                                    R 15 W S 12 in NW.,
R 14 W, S 7 in NE.,
                                    S 18 in SE., and
                S 13 in SW. quadrants; raise mound of stone 3 ft. base, 3 ft. high, W. of cor.
           Land, rough, mountainous.
           Soil, thin, sandy loam.
           No timber.
           Undergrowth, scattering shellac brush.
           South, bet. secs.13 and 18. Ascend rocky NE.slope 200 ft.
                                                              Soil, rocky, through shel-
           lac brush, 2 to 3 ft. high.
Top of rocky spur, slopes NW.; descend steep rocky S.
 3.50
               slope, 800 ft.
           Dry wash, 20 lks.wide, course W.; thence over level, rocky land.
12.00
           Ascend N.slope, 75 ft.
Top of spur, slopes W.; descend 75 ft.
Dry wash, 10 lks.wide, course W.; ascend 50 ft.
15.00
20.00
25.00
27.00
           Top of small spur, slopes west; descend gentle slope to S.
          Top of small spur, slopes west, topos wash, lo lks.wide, course W.

Top of low spur, slopes W.; descend.

Set an iron post 3 ft. long, l in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec.cor., with a brass cap, marked \(\frac{1}{4}\) S 13 in W., and

S 18 in E half; raise a mound of stone high W of core: thence over rolling,
31.00
34.00
40.00
                3 ft.base, 3 ft. high, W. of cor,; thence over rolling,
                rocky land.
47.00
           Dry gravelly wash, 60 lks.wide, course W.
           Dry wash, 20 lks.wide. course W.
Dry wash, 15 lks.wide, course W.
Dry wash, 75 lks.wide, course N.45°W.
Dry wash, 15 lks.wide, course N.40°W.
Rocky butte 200 ft. high, bears W. 5 chs.
50.00
52.00
62.00
68.00
70.00
79.90
           Edge of bank, 15 ft. high, bears N.45°E. and S.45°W.
           Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13,18,19 and 24, with
80.00
                brass ap, marked,
T 41 N in N.half;
                                   R 15 W, S 13 in NW.,
R 14 W S 18 in NE.,
                                    S 19 in SE., and
                S 24 in SW. quadrant, and raise a mound of stone 4 ft.base, 3 ft. high, W. of cor.
           N.25 chs. mountainous.
          S.55 chs. rolling, soil, rocky.
Sandy loam, coarse texture to 2 ft. deep.
Undergrowth, shellac brush and scattering bunch grass.
                                                                             Nov. 21, 1912.
                . 22, 1912. At 9h. 30m. a.m., l.m.t., I set off 36° 56\frac{1}{2} N. on the lat.arc; 20°8'S. on the decl.arc, and de-
                termine a meridian with the solar at the above de-
                scribed cor.
           Thence I run,
           South, bet. secs.19 and 24, over rolling, rocky land, throo
          shellac brush, 2 to 3 ft. high.
Dry wash, 3 lks.wide, course S.45°W.
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East boundary of Township 41 North Range 15 West
                Dry wash, 2 lks.wide, course S.45°W.

Dry wash, 2 lks.wide, course S.70°W.

Dry wash, 12 lks.wide, course S.40°W.

Dry wash, 40 lks.wide, course S.40°W.

Dry wash, 40 lks.wide, course S.30°W.

Dry wash, 40 lks.wide, course W.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for \(\frac{1}{4}\) sec.cor., with a brass cap, marked \(\frac{1}{4}\) S 24 in W., and

S 19 in E.half; raise a mound of stone.

3 ft.base, 2 ft. high, W. of cor.

Dry wash, 15 lks.wide, course S.45°W.

Dry wash, 50 lks.wide, course S.30°W.

Dry wash, 3 lks.wide, course S.80°W.

Descend 40 ft. to

Dry wash, 100 lks.wide, course S.80°W.
 Chains
  4.50
8.50
12.00
14.50
19.50
26.00
34.50
40.00
47.30
53.20
56.00
58.60
59.00
                 Dry wash, 100 lks.wide, course S.80°W.
                Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19,24,25 and 30, with a
80.00
                       brass cap, marked
T 41 N in N.half;
R 15 W S 24 in NW.,
R 14 W S 19 in NE.,
                       S 30 in SE., and
S 25 in SW. quadrants; raise a mound of
stone 3 ft.base, 3 ft. high, W. of cor.
                Land, rolling and rocky.
                Soil, sandy loam, coarse texture. .
                Undergrowth, shellac.brush.
                South, bet. secs.25 and 30.

Over rolling, rocky land, along foot of Beaver Dam Mountains, through shellac brush, 2 to 3 ft. high.

Descend 70 rt. along steep rocky side of canyon.
29.00
                Dry wash, 5 lks.wide, course S.30°W., thence along steep rocky W. slope.
31.50
                Dry wash, 3 lks.wide, course S.80°W.

Set iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked \( \frac{1}{4} \) S 25 in W., and
39.00
40.00
                                                   S 30 in E.half; raise a mound of stone 3 ft.
                base, 3 ft. high, W. of cor.

Dry wash. 10 lks.wide, course W.; ascend.

Top or rocky spur, slopes west.
54.00
55.50
                Descend steep rocky slope,75 ft.
Bottom of descent, thence along steep rocky south slope.
56.00
66.00
               Right edge of canyon, through which Virgin River flows, canyon, 250 ft. deep, course west. To determine the distance across, I set a flag on line on left bank
70.00
                    of canyon, and erect a rlag on line at the 70.00 ch. point. I then measure a base W. from flag on left bank of river 5 chs. to a point from which the flag on right bank bears N. 45°E. I compute the distance across the canyon as follows: 5.00 ÷ tan. 45° = 5.00
                   \div 1 = 5.00 chs. Wiath of water 2 chains.
               Left edge of canyon, ascend steep rocky N.slope, 600 ft. Set iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25,30, 31 and 36, with
75.00
86.00
                       a brass cap, marked
T 41 N in N.half,
R 15 W S 25 in NW.,
R 14 W S 30 in NE.,
                                                   S 31 in SE., and
                                                   S. 36 in SW. quadrants, and raise a mound
                       or stone 3 ft.base, 3 ft. high, W. of cor.
                Land, rough and mountainous.
Soil, very rocky and thin, coarse texture.
                Undergrowth, scattering shellac brush.
                                                                                                           Nov. 22, 1912.
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East boundary of Township 41 North, Range 15 West
Chains.
             Nov. 23, 1912. At 9h.0m. a.m., 1.m.t., I set off 36^{\circ}55^{\dagger} N. on the lat.arc; 20^{\circ}20\frac{1}{2}^{\dagger}S. on the decl.arc, and deter-
                   mine a meridian with the solar at the above described
                 corner.
             Thence I run,
South, bet. secs. 31 and 36, ascending steep rocky N.
slope, along NW. ft. of Virgin Mts.
Top of rocky spur, slopes N.80°W.; descend 100 ft. into
  5.00
                   small canyon.
             Bottom of canyon, dry wash 5 lks.wide, course W.; ascend N.
             Bottom of canyon, any manuscripts slope, 500 ft.

Top of spur, slopes N.45°W.; thence descend, 200 ft.

Descend steep rocky S' slope, 600 ft.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., with a brass cap, marked $\frac{1}{4}$ S 36 in W., and

$\frac{1}{4}$ S 1 in E.half; raise mound of stone 3 ft.

Thigh W. of cor.
  8.00
15.00
28.00
40.00
                   base, 3 ft. high, W. of cor. wash, 75 lks. wide, course N. 70° W.; ascend NW. slope
             Dry wash, 75
40.75
             200 ft.
Top of spur, slopes W.; descend 100 ft.
Dry wash, 10 lks.wide, course W., thence along rocky W.
46.00
53.00
             Dry wash, 15 lks.wide, course W.
Dry wash, 50 lks.wide, course N.80°W.; ascend 100 ft.
Top of rocky spur, slopes W.; descend SW.slope, 100 ft.
Point for stand. township cor. of T.41 N., Rs.14 and 15 W.
60.00
67.00
73.00
86.00
                   falls on solid bed of rock. I cut a cross (x) in the
                   rock, and raise mound of stone 3 ft.base, 3 ft. high,
             N.of cor. point.
Land, rough, mountainous.
             Soil, very rocky and thin, sandy, coarse texture.
             Undergrowth, scattering shellac brush.
               10th. Standard Parallel North, through Range 15 West.
             At pt. for the Standard cor. of T.41 N., Rs. 14 and 15 W., above described, I lay off from the meridian an angle
             of 90° from north to west on tangent S.of sec. 36. Descend gentle NW.slope at foot of Virgin Mountains,
             through shellac brush, 2 to 3 ft. high. Soil, rocky. Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for witness cor. to standard cor. of T.41 N., Rs.14 and 15 W., with a brass cap, marked

W C S of center,
             T 41 N, R 15 W,
S 36, R 14 E, S 31 in N.half; and raise a
mound of stone 3 ft.base, 3 ft. high, N.of cor.
Dry wash, 50 lks.wide, course N.60°W.
Dry wash, 10 lks.wide, course N. 45°W.; thence along N.
21.00
38.00
                  slope.
40.00
             Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard 4 sec.cor., with a brass cap,
                   marked
                                          base, 3 ft. high, N. of cor.

Dry wash, 2 lks.wide, course N. 40° W.

Dry wash 5 lks.wide, course N. 40°W.
55.50
59.30
69.00
             Dry wash, 10 lks.wide, course N.45°W. Dry wash, 10 lks.wide, course N.
74.20
80.00
                  1 lk.from tangent.
             Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for the standard cor. of secs. 35 and 36,
                   with a brass cap, marked
T 41 N R 15 W in N. half;
                                         S 35 in NW., and
S 36 in NE. quadrant; and raise a mound of
                   stone 3 ft.base, 3 ft. high, N. of cor.
```

Land, slightly rolling.

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Standard Parallel North, through Range 15 West
 Chains Soil, rocky and sandy; coarse texture, 1 to 3 ft.deep.
             Undergrowth, shellac brush, with scattering bunch grass.
             S.89°59½ w.on tangent, S. of sec. 35.

Descending gentle NW. slope, through shellac brush, 2 to
                   4 ft. high.
             Soil, rocky and sandy, coarse texture.
             Dry wash, 20 lks.wide, course N.20.W. N. 2 lks. from tangent.
  0.50
40.00
             Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard 4 secc cor., with a brass
                   cap, marked, \frac{1}{4} s 35 in N. half; and raise a mound 2 ft.
                  base, 2 ft. high, N. of cor.
56.50
67.00
             Dry wash, course NW.
             Wagon road, bears N.70°E. and S.70°W.
76.00.
             Leave shellac brush; enter ploughed land.
            N. 3 lks.from tangent.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for standard cor.of secs. 34 and 35, with
80.00
                  a brass cap, marked

T 41 N, R 15 W in N. half;

S 34 in NW.,

S 35 in NE. quadrant; dig pits 24x18x12.

ins. crosswise on each line, E. and W of post 3 ft.

dist. and N.7 ft. dist., and raise a mound of earth 4

ft base 2 ft. high N of cor
                  ft.base, 2 ft. high, N.of cor.
             East, 70 chs. slightly rolling, sandy loam, 2 to 3 ft.
                  deep; coarse texture.
             Undergrowth, cactus and shellac brush.
                                                                                       Nov. 23, 1912.
             Nov. 26, 1912. At 8h. 30m., a.m., 1.m.t., at the above described cor., I set off 36°54'N. on the lat.arc; 20°55'S. on the decl.arc, and determine a meridian with the solar.
             Thence I run, .
S.89°58½ W., S of sec. 34 on tangent, over level bench
            Wagon road, brs. N.80°E., and S.80°W.; leave cultivated land; enter shellac brush, 2 to 4 ft. high. Dry wash, 40 lks.wide, course N. Dry wash, 2 lks.wide, course N.10°W.
13.00
32.40
36.20
40.00
            N. 5 1ks.from the tangent.
            Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard 4 sec.cor., with a brass cap,
                  marked,
                                         \frac{1}{4} S 34 in N., and raise a mound of stone
            3 ft.base, 3 ft. high, N. of cor.

Descend bluff, 75 ft. into river bottom, bears N.50°E.

and S. 50°W.
43.00
            Bottom of bluff, thence over very sandy bottom land, through shellac brush, 4 to 5 ft. high.

Left bank of Virgin River, course S. 40°W. T obtain the distance across river by actual measurement, water 2
44.50
47.50
            ft. deep, quicksand bed.

Leave edge of water, thence over sand bar in river bed.

Right bank of Virgin River, 8 ft. high, bears N.70°E.,

and S.70°W.; thence over very sandy bottom land, through
mesquite brush, 4 to 10 ft. high.
49.50
60.30
            Wire fence brs. N.50°E. and S.50°W.; leave mesquite brush, enter field of Sam Reber, Jr.
Wire fence brs. N.10°W., and S.10°E. Leave field of Sam Reber, Jr.; enter field of Sam Reber, Sr.
Wire fence brs. N. 40°E., and S.40°W.; leave field; ascend
62.30
65.80
75.50
            N. 7 1ks. from the tangent.
80.00
            Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
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the ground for standard cor. of secs. 33 and 34, with

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Standard Parallal North, through Range
Chains
                a brass cap, marked T 41 N R 15 W in N.half;
                                          S 33 in NW., and
S 34 in NE. quadrants; raise a mound of
                   stones 3 ft.base, 3 ft. high, N. of cor.
             East, 40 chs. level, sandy loam, coarse texture, 2 to 3 ft,
                   deep.
              Undergrowth, shellac brush, 2 to 4 ft. high.
             West, 40 chs. broken along river banks.
Soil, sandy, 2 to 6 ft. deep, fine texture.
             Undergrowth, shellac and mesquite brush.
             S.89° 58'W., on a tangent, S of sec.33.

Over rolling land, through shellac brush, 2 to 3 ft. high.

Dry wash, 10 lks.wide, course S.10°W.

Dry wash, 30 lks.wide, course S.

Descend 30 ft. to
3.00
9.70
11.50
             Dry wash, 20 lks.wide, course S.45°E.; ascend 50 ft.
12.00
             Top of ascent; thence over rolling bench land.

Telephone line from St. George, Utah, to Mesquite, Nevada, brs. N.10°E., and S.10°W.

Dry wash, 5 lks.wide, course S.10°W.

Dry wash, 20 lks.wide, course S.10°E.

Wagon road, brs. N.10°E. and S.10°W.

Descend into small ravine 10° ft. door
13.00
24.30
26.00
27.00
28.50
30.00
             Descend into small ravine, 40 ft. deep.
             Dry wash, 20 lks. wide, course S. 30°E.; ascend 40 ft. Leave ravine, thence over rolling land.
31.00
32.00
             North 9 1ks.from the tangent.
40.00
             Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard \frac{1}{4} sec.cor., with a brass cap,
                   marked,
             # S 33 in N.half; and raise a mound of stone 2 ft.base, 2 ft. high, N.of cor.

Wagon road, from St. George, Utah, to Littlefield, Ariz., bears N.45°E., and S.45°W.

Descend W. slope, 50 ft.; thence over rolling bench land.

Raving 100 lks wide course N.
40.50
41.25
             Ravine, 100 lks.wide, course N. Old wagon road, brs. N. and S.
51.00
51.10
54.00
             Ravine, 200 lks.wide, course S.

Descend vertical bank 40 ft. into Beaver Dam bottom, bears

N.and S.; thence over level bottom land, through mesquite and shellac brush, 6 to 10 ft. high, and scat-
60.00
                   tering cottonwood trees.
  72.00 Right bank of Beaver Dam Creek, 4 ft. high, course S.50°
             Left bank of small island in channel. N. 12 lks. from the tangent.
78.00
78.90
             Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for witness cor. to standard cor. of secs. 32 and 33, with a brass cap, marked

W C S of center;
                                          T.41 N R.15 W,
                                          S 32 S 33 in N.half; raise mound of stone
            3 ft.base, 3 ft. high, N. of cor.
Right bank of small island, bank 4 ft. high, thence over dry bed of Beaver Dam Greek.
79.50
             Point for stand.cor. of secs. 32 and 33, falls in bed of Beaver Dam Creek, impracticable to set same.
80.00
             East 60 chs. rolling, with scattering rock; soil, sandy, coarse texture, 2 to 3 ft. deep.
Undergrowth, shellac brush, 2 to 3 ft. high.
             West 20 chs. level bottom land; soil, rich sandy loam; fine texture, 4 to 6 ft. deep; surface shows indica-
             tions of abundant water, under the surface. Undergrowth mesquite and shellac brush, 6 to 10 ft, high.
             Timber, cottonwood.
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10th Standard Parallel North, through Range 15 West
 Chains
               S.89°57½ W. from pt. for stand. cor.to secs.32 and 33, on tangent S.of sec. 32, over dry bed of Beaver Dam Creek. Right bank of Beaver Dam Creek 12 rt. high, course S.70°
 14.00
                     E.
               Thence over level creek bottom, through thick shellac brush, 10 to 12 ft. high.
Wagon road, brs. N.45°W. and S.45°E.
 17.80
 26.00
               Leave bottom; ascend sandy E. slope, 300 ft.
 40.00
               N.15 lks.from the tangent.
              Set an iron post 3 ft. leng, 1 in. in diam., 24 ins. in the ground for standard. \( \frac{1}{4} \) sec.cor., with a brass cap,
                    marked
                    \frac{1}{4} S 32 in N.half; dig pits 18x18x12 ins. E. and W.of cor. 3 ft. dist., and raise a mound of
                    earth 3 ft. base, 1 ft. high, N. of cor.
               Top of ascent, thence over level bench land, through shellac brush 1 to 2 ft. high, with scattering yucca
 41.00
                     trees.
 80.00
              N.19. lks.from the tangent.
              Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for stand. cor. of secs. 31 and 32, with
                    a brass cap, marked
T 41 N R 15 w in N.half;
                                            S 31 in NW., and
                    S 32 in NE. quad.; dig pits 24x18x12 ins. crosswise or each line E. and W., 3 ft., and N.7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high.
                    N.of cor.
              E. 14 chains, rich sandy loam, 1st rate, line texture, 10
              to 12 ft. deep.

14 chains to 41 chains steep sandy hillside; soil, very sandy \( \frac{1}{2} \) to 3 ft. thick, coarse texture.

41 chains to 80 chains, level bench land; loose sandy soil.
                    1 to 2 ft. deep laying on soft limestone.
                                                                                       Nov. 26, 1912.
             Nov. 27, 1912.
S.89°57'W., on tangent S. of sec.31.
Over level sandy ground, through shellac brush, 1 to 3
ft. high, and scattering yucca trees.
40.00
             Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for stand. 4 sec. cor., with a brass cap,
                   marked
             1 S 31 in N.half; dig pits 18x18x12 ins.
E-and W of cor. 3 ft. dist., and raise a mound of earth 3 ft. base, 1 ft. high, N. of cor.
Wagon road from Littlefield, Arizona to Carp, Nevada, brs.
45.50
                   N.20°W., and S.20°E.
             N.24 lks.from the tangent.
47.32
             Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for closing cor. of T. 40 N., Rs.15 and 16
                   W., with a brass cap, marked

C C S of center,

T 41 N R 16 W,S 36,

R 15 W S 31 in N.half, and

T 40 N in S.half,

S 6 R 15 W in SE., and

S 1 R 16 W in SW. quadrants; dig pits

30x24x12 ins. crosswise on each line, E.and W.4 ft.
            uistant, and S. of post 8 ft. distant, and raise a mound of earth 5 it. base, 2\frac{1}{8} ft. high, S. of cor. N. 27 lks. from the tangent.
80.00
             Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for stand. cor. of T.41 N., Rs.15 and 16 W.,
                    with a brass cap, marked
T 41 N in N., and
R 16 W, S 36 in NW., and
                   R 15 W, S 31 in NE. quadrants; dig pits 30x24x12 ins. crosswise on each line, E. and W. 4 ft.
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Fast Boundary of Township 40, North, Range 16 West.
Chains.
                      distant, and N.of post, 8 ft. dist., and raise a mound of earth 5 ft.base, 2\frac{1}{2} ft. high, N.of. cor. Land, level; loose, sandy soil, coarse texture 1 to 2 ft.
                                 deep laying on soft limestone.
                      Undergrowth, scattering yucca trees and shellac brush, 1 to 3 ft. high.
                      East Boundary of Township 40 North, Range 16 West.
                      At the closing cor. of T.40 N., Rs.15 and 16 W., hereinbefore described, I set off 21° 9½ S.on the decl.arc,
                                and at 11h. 47m.40s.,a.m.,1.m.t., observe the sun on the meridian, and obtain on the lat.arc the reading 36°53
                      N., which agrees within one minute of other data.

At 1h.30m. p.m., l.m.t., I set off 36°54'N.on the latitude arc; 21°10'S. on the declination arc, and determine a
                                 meridian with the solar at the closing cor. of T.40 N.,
                       Rs.15 and 16 W., hereinbefore described. Thence I run,
                       South, on range line, between secs. 1 and 6.
                      Over level, sandy land, through scattering yucca trees and shellac brush, 2 to 3 ft. high.

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

2 S 1 in W., and
40.00
                                                                        S 6 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.

Wagon road, brs. N. 10°E. and S.10°W. from Littlefield,
Ariz. to Mesquite, Nev.

Wagon road, bears N.45° W., and S.45°E.

Set an iron post 3 ft. long 3 inc. in dist.
49.50
58.00
                      Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1,6,7 and 12, with a
80.00
                                brass cap, marked
                                                                        T 40 N in N.half;
                                R 16 W, S 1 in NW.,
R 15 W, S 6 in NE.,
S 7 in SE., and
S 12 in SW. quadrants; 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, woof cor.
                      Land, level and sandy, coarse texture, 1 to 2 ft. deep, laying on soft limestone.
Undergrowth scattering yucca trees and shellac brush, 1 to
                                 3 ft. high.
                      South, bet. secs.7 and 12. Over level, sandy land, through shellac brush, 2 to 3 ft.
                                high.
21.00
                      wagon road, brs. N. 60°W. and S.60°E.
                     Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for \frac{1}{4} sec.cor., with a brass cap, marked \frac{1}{4} S 12 in W, and
40.00
                     $\frac{1}{4}$ S 12 in W , and

$\frac{1}{4}$ S 12 in W , and

$\frac{1}{5}$ 7 in E.half; dig pits $18\times 18\times 18\
50.00
                     tle south slope, over sandy land.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
80.00
                                   the ground for cor. of secs. 7,12,13 and 18, with a
                                brass cap, marked
                                                                       T. 40 N in N.half;
                                                                       R 16 W, S 12 in NW.,
R 15 W S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrants; 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.
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Boundary of Township 40 North, Range 16 West
Chains.
             N.50 chs. level. S.30 chs. slightly sloping to river; loose, sandy soil, coarse texture, 1 to 2 ft. deep
                   laying on soft limestone.
             Undergrowth, shellac brush, 1 to 3 ft. high.
             South, bet. secs.13 and 18.
            Descending gentle south slope, over very sandy land, through shellac brush 2 to 3 ft. high.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec.cor., with a brass cap, marked \(\frac{1}{4}\) S 13 in W., and
40.00
            S 18 in E.half; uig pits 18x18x12 ins.N. and S. of corner 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ 1t. high, W. of post.

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with a
80.00
                                                                                                 24 ins. in
                  brass cap, marked
                                       T 40 N in N.half,
R 16 W S 13 in NW.,
R 15 W, S 18 in NE.,
                                        S 19 in SE., and
                  S 24 in SW. quadrants; dig pits 18x18x12 ins. in each section 5\frac{1}{2} ft. dist., and raise a mound or earth 4 ft.base, 2 ft. high, W-of cor.
             Land, slightly sloping to south.
            Soil, very sandy of medium texture, 1 to 2 ft. deep, laying on soft limestone.
             Undergrowth, shellac brush, 2 to 3 ft. high.
             South, bet. secs. 19 and 24.
             Over slightly rolling bench land, through shellac brush,
                    2 to 3 ft. high.
             Telephone line from Mesquite, Nevada to Littlefield, Ariz.,
 1.20
                  bears S.40°W. and N.40°E.
             Wagon road from Mesquite, Nevada to Littlefield, Arizona, bears N.80°W, and S.80°E.
36.80
            Set an iron post 3 rt. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked \( \frac{1}{4} \) S 24 in W., and
40.00
                                        S 19 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} it. base, 1\frac{1}{2} ft. high, W. of cor.
            Dry wash, 10 lks.wide, course S.45° E.
56.10
            Edge of bluff, along Virgin River, bears N.45°E. and S.45° W.; descend 250 ft.
Right bank of Virgin River, NE. and SW.; thence over sand
64.00
70.00
                  bar.
            Edge of shallow channel of river, water 1 to 2 ft. deep,
73.00
                  course W.
75.00
            Leave water, thence over low sand bar.
            Leave sand bar; enter main channel of river, course S.45° W.; water 2 to 3 ft. deep.

Point for cor.of secs. 19,24, 25 and 30 falls in stream.

N.64 chs. slightly rolling south slope; soil, medium texture sandy 1 to 2 ft. deep. laying on soft limestone.
78.00
80.00
            ture, sandy, 1 to 2 ft. deep, laying on sort limestone, Undergrowth, shellac brush, 2 to 3 ft.high.
64 chs. to 73 chs. mountainous.
73 chs. to 80 chs. sandy river bed.
            Scattering mesquite along river banks.
                                                                                  Nov. 27, 1912.
            Nov. 29, 1912.
            At 9h.0m.a.m., 1.m.t., I set off 36° 50½ N. on the lat. arc; 21°28'S. on the decl.arc, and determine a meridian
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with the solar at the point for cor. of secs. 19,24, 25 and 30, described above.

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houndary of Township
                                                                   40 North
 Chains.
                Thence I run,
                South, bet. secs.25 and 30.
   0.50
                Left edge of water, thence over sand bar.
               Leave sand bar, ascend 10 ft. to narrow shelf, in vertical blurf along bank of river, brs. NE. and SW.

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for witness cor. to secs. 19,24, 25 and 30,
   8.75
   8.85
                      with a brass cap, marked W C S of center,
                                                 T 40 N in N.half,
                                                R.16 W S 24 in NW.,
R 15 W S 19 in NE.,
                                                 S 30 in SE,, and
                                                S 25 in SW. quadrants; raise a mound of
                      stone 3 ft. base, 3 ft. high, W. of cor.; ascend steep rocky slope 50 ft.
                Top of spur, slopes W.; descend 40 ft. into ravine.
   9.50
               Dry wash, 10 lks.wide, course N.45 W.; ascend NW.slope 50 ft.
 12.00
                Top or ridge, bears N.45° W., and S.45°E.; descend 40
 16.00
               ft.into ravine.

Dry wash, 7 lks.wide, course N.45°W.; ascend steep slope, 60 ft.
 20.00
 25.00
                Top of steep ascent, brs. NW. and SE.; thence ascend gen-
               tle N·slope over rocky land, through shellac brush 2 to 4 ft. high.

Dry wash, 10 lks.wide, course N.45°W.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked \( \frac{1}{4} \) S 25 in W', and S 50 in E·half; raise a mound of stone 3 ft. base, 3 ft. high, W.or cor.

Dry wash, 15 lks.wide, course N.45°W.

Dry wash, 50 lks.wide, course N.45°W.

Dry wash, 40 lks.wide, course West.

Dry wash, 20 lks.wide, course W.

Dry wash, 20 lks.wide, course N.45°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, with a brass cap, marked
                      tle N'slope over rocky land, through shellac brush
39.00 40.00
43.00
54.00
 60.00
 63.70
67.00
79.00
80.00
                      brass cap, marked
T 40 N in N.half;
R 16 W S 25 in NW.,
                                                R 15 W S 30 in NE.,
               S 31 in SE., and S 36 in SW.quadrants; raise a mound of stone 3 ft. Basey 3 ft. high, W. of cor. Rolling, rocky land. Soil, sandy, coarse texture, 2 to 3
                      ft. deep.
                Undergrowth, shellac brush, 2 to 4 ft. high.
               South, bet. secs.31 and 36.
               Ascending gentle NW. slope, over very rocky land. Dry wash, 5 lks.wide, course N.45°W.
  8.40
               Dry wash, 5 lks.wide, course N.45°W.

Wagon boad; brs.N,45°W.and S.45°E

Dry wash, 40 lks.wide, course W.

Dry wash, 5 lks.wide, course N.30°W.

Dry wash, 3 lks.wide, course W.

Dry wash, 40 lks.wide, course W.

Dry wash, 40 lks.wide, course N.30°W.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins.in the ground for \(\frac{1}{4}\) sec.cor., with a brass cap, marked \(\frac{1}{4}\) S 36 in W., and

S 31 in E.half; raise a mound of stone 3 ft. base, 3 ft. high.W.of cor.
13.00
15.30
17.80
19.80
26.30
32.20
40.00
               ft. base, 3 ft. high, W. of cor. Dry wash, 10 lks. wide, course W.
41.30
             Dry wash 20 lks.wide, course N.45°W.
46.30
54.00
             Dry wash, 10 lks.wide, course W.
               Dry wash, 20 lks.wide, course W.
Dry wash, 40 lks.wide, course N.80°W.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in
 61.00
 63.•00
80.00
                    the ground for cor. of Tsc39 and 40 N., Rs. 15 and 16 W.,
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East Boundary of Township 40 North, Range 16 West
                      with a brass cap, marked T 40 N in N.,
                                             R 15 W in E.,
                                             T 39 in S, and
R 16 W in W halves,
                                             S. 36 in NW., .
                                             S 31 in NE.,
                                             S 6 in SE., and
                                             S 7 in SW. quadrants; raise a mound of
               stone 3 ft.base, 3 ft.high, north of cor. Land, rolling, very rocky.
               Soil, sandy, coarse texture, 2 to 3 ft. thick.
               Undergrowth shellac brush, with scattering cactus, 4 to
                     5 ft. high.
                                                                                . Nov. 29, 1912.
               Portion of South Boundary of Township 40 North, Range 15 W.
               Dec. 2, 1912.
              From the cor. of secs. 4,5,32 and 33, heretorore described, in Book "B," I run
              West on a random line, along the south bdy.of T.40 N.,R. 15 W., setting temp. 1 sec. and sec.cors. at intervals of 40 chs., and at 158.32 chs. intersect the cor.of Ts. 39 and 40 N.,Rs. 15 and 16 W., set by me, Nov.29,1912,
              and hereinbefore described. Thence I run,
              East, bet. secs. 6 and 31, on a true line, ascending rocky land, through shellac brush, 2 to 4 ft. high, and
              scattering cactus, 4 to 5 ft. high. Dry wash, 10 lks.wide, course N.45°W. Dry wash, 15 lks.wide, course N.45°W. Dry wash, 10 lks.wide, course N.30°W. Dry wash, 5 lks.wide, course N.45°W. Set an iron nost 2 ft. long 1 in in
   1.00
   9.80
 31.00
 35.00
38.32
              Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked \( \frac{1}{4} \) S.31 in N., and \( S \) 6 in S.half; raise mound of stone 3 ft.
                    base, 3 ft. high, N. of cor.
              Dry wash, 10 lks.wide, course N.30°W. Dry wash, 15 lks.wide, course N.10°W. Dry wash, 10 lks.wide, course N.10°W.
 47.80
53.00
55.00
             Dry wash, 70 lks.wide, course N.10°w.
Dry wash, 70 lks.wide, course N.45°w.
Dry wash, 50 lks.wide, course N.60°w.
Dry wash, 20 lks.wide, course N.60°w.
Wagon road, brs. N.30°w., and S.30°E.
Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor.of secs. 5,6,31 and 32, with a
 63-00
 65.00
 71.00
 72.50
78.32
                    brass cap, marked
                                           T 40 N in N.,
                                           T 39 N in S., and R 15 W in W. halves,
                                           S 31 in NW.,
                                           S 32 in NE.
                     S 5 in SE., and
S 6 in SW. quadrants; raise mound of stone
3 ft. base, 3 ft. high, N. of cor.
             Land, slightly rolling. NW. slope very rocky. Soil, sandy, coarse texture, 2 to 3 ft. deep. Undergrowth, shellac brush and cactus, 3 to 5 ft. high.
             East, on true line, between secs. 5 and 32.
             Ascending NW. slope, over very rocky land, through shellac
 brush and cactus, 3 to 5 ft. high.

2.00 Dry wash, 20 lks.wide, course N.30°W.

8.00 Dry wash 40 lks.wide, course N.20°W.
11.80 Dry wash 30 lks.wide, course N.45°W.
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Portion of South Boundary of Township 40 North, Range 15
Chains.
              Dry wash, 20 lks.wide, course N.45°W.

Dry wash, 10 lks.wide, course N.20°W.

Dry wash, 30 lks.wide, course N.60°W.

Dry wash, 5 lks.wide, course N.60°W.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 4 sec.cor., with a brass cap, marked $\frac{1}{4}$ S 32 in N., and

$\frac{1}{4}$ S 32 in N., and

$\frac{1}{5}$ in S. half; raise a mound of stone 3 ft.base. 3 ft. high.N.of cor.
19.00
21.80
29.70
33.50
38.00
40.00
             S 5 in S. half; raise a mound of score

3 ft.base, 3 ft. high, N. of cor.

Dry wash 40 lks.wide, course N. 70°W.

Dry wash, 5 lks.wide, course N. 80°W.

Dry wash, 10 lks.wide, course N. 20°W.

Dry wash, 10 lks.wide, course N. 45°W.

Dry wash, 20 lks.wide, course N. 45°W.

The cor.of secs.4,5,32 and 33, described in Book "B."

Land, slightly rolling; NW. slope very rocky. Soil, sandy, of coarse texture, 2 to 3 ft. deep.

Undergrowth, cactus and shellac brush, 3 to 5 ft. high.

Dec. 2, 1912.
53.30
61.80
67.50
69.80
73.00
79.00
80.00
                        Boundaries of Township 40 North, Range 15 West.
                          Latitudes, departures, and closing errors.
Line design True Dist. Latitude. Departure. nated. Bearing. N. S. E. W.
                                  West, 397.80
South, 480.00
                                                                                                                             397.80
10th.St.Par.N. West,
                                                                                 480.00
West bdy.
                                                   158.32
                                   East,
                                                                                                             158.32
South
Sec.line bet. 28&29,32&33. Sec.line bet.
                                   N.0°93'W. 160.00 160.00
                                                                                                                                0.14
  21428.
" "21422
                                                          80.00
                                                                                                               80.00
                                   East,
                                   N.0°02'W.
                                                                                                                                  0.05
                                                          80.00
                                                                          80.00
 " "15422 East, 80.00
" "14415;10411 N.0°01'W. 160.00
" " 2 and 11 East, 80.00
" " 1 and 2, N.0°01'W. 80.00
                                                                                                               80.00
                                                                         160.00
                                                                                                                                  0.04
                                                                                                               80.00
                                                                           80.00
                                                                                                                                 .0.02
Convergency,
                                                                         480.00 480.00 398.32
                                Totals,
                                                                         <u>480.00</u>
                                Error in lat. ---- 0.00
                               Error in dep.-----
               Portion of West Boundary of Township 41 North, Range 15 W.
               Dec. 14, 1912. At 9h.0m. a.m.,1.m.t., I set off 36°54'N. on the lat.arc; 23°11½'S. on the decl.arc, and determine a meridian with the solar at the standard cor.of T.41 N., Rs.15 and 16 W. set Nov.27, 1912, and herein-
                     before described.
               Thence I run,
               North, on range line bet. secs.31 and 36; ascend over very sandy SW. slope, through low shellac brush, with scat-
                      tering yucca trees.
               Leave sandy slope, enter shellac brush 2 to 3 ft. high, bears E. and W.; thence over level land.
12.30
               Wagon road from Littlefield, Arizona to Carp, Nevada, brs. N.50°W. and S.50°E.
33.00
              Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked,
40.00
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Portion of West Boundary of Township 41 North Range
   Chains
                                            \frac{1}{4} S 36 in W., and S 31 in E half; dig pits 18x18x12 ins.
              N.and S'of cor. 3 ft. distant, and raise a mound of earth 3½ ft. base, 1½ ft. high, Woof cor.

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, with a
   80.00
                     brass cap, marked
                                           T 41 N in N.,
R 15 W in E., and
R 16 W in Whalves,
                                           S 25 in NW.,
S 30 in NE.,
                                            S 31 in SE., and
              S 31 in SE., and
S 36 in SW. quadrants; 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.
S.12 chs. sandy, sloping to the SW.; soil, coarse texture,
2 to 3 ft. deep. N. 60 chains, level, rich sandy loam;
soil, line texture, 2 to 3 ft. deep.
Undergrowth, shellac brush 2 to 3 ft. high.
              North, bet. secs. 25 and 30.

Over level land, through shellac brush, 2 to 3 ft. high. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 4 sec. cor., with a brass cap, marked 4 S 25 in W., and
  40.00
                                           S 30 in E. half; dig pits 18x18x12 ins.
              N.and S. of corner 3 ft. distant, and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19,24,25 and 30, with a
  80.00
                    brass cap, marked

T 41 N in N.,

R 15 W in E., and

R 16 W in W.halves,
                                          s 24 in NW.,
                                          S 19 in NE.,
S 30 in SE., and
S 25 in SW. quadrants; dig pits 18x18x12
                  ins. in each sec. 5½ ft. distant, and raise mound of earth 4 ft. base, 2 ft. high, W. of cor.
              Land, level.
              Soil, rich sandy loam, fine texture 2 to 3 ft. deep lay-
                    ing on soft sandstone.
              Undergrowth, shellac brush, 2 to 3 ft. high.
                  Boundaries of Township 41 North, Range 15 West.
                     Latitudes, departures, and closing errors.
  Line desig- True Dist. Latitudes. Departures. nated. bearing. N. S. E. W.
10th St. Par. N. West, 480.00 West bdy. North, 160.00
                                                                                                               480.00
West bdy.
                                                                  160.00
Bet.secs.19430,
20429,
21428
                                                     79.86
                              East,
                                                                                                  79,866
80.00
                                N.89°59'E. 80.08
N.89°58'E. 80.00
                                                                      0.02
                                                                                                   80.08
 Ħ
         **
               22&27
                                                                      0.05
                                                                                                  80.00
        **
                               East, 80.00
S.89°58'E. 80.14
South, 160.00
                23&26
       11
                                                                                                   80.00
               24&25
                                                                                     0.05
                                                                                                  80.14
East bdy.
                                                                                 160.00
Convergency,
                                                                    160.07 160.05 4480.26
                               Totals,
                                                                                                                480.00
                                                                                                480.00
                                                                   160.05
                               Error in lat.,---- 0.02
Error in dep.,----- 0.26
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North Boundary of Township 39 North, Range 16 West
Chains.
            Survey commenced Dec. 19, 1912, and executed by Thomas B. Matthews, U.S. Surveyor, with a Young and Sons Light Mountain Transit No.8480, hereinbefore described.

At 9h.30m.a.m.,l.m.t., I set off 36° 49'N.on the lat. arc; 23°23½'S. on the decl.arc, and determine a meri-
                 dian with the solar at the cor. of Tps.39 and 40 N., Rs. 15 and 16 W. set by me Nov. 29th, 1912, and herein-
                  before described.
            Thence I run,
            west, bet. secs.1 and 36, descending gentle NW. slope, over very rocky land, through shellac brush and cactus
            3 to 5 ft. high.
Dry wash, 30 lks.wide, course N.30°W.
0.50
14.00
            Dry wash, 70 lks.wide, course N.40°W.

Dry wash, 50 lks. wide, course N.20° W.

Dry wash, 35 lks.wide, course N.45°W.

Dry wash, 10 lks.wide, course N.10°W.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., with a brass cap, marked $\frac{1}{4}$ S 36 in N., and
17.30
33.80
36.00
40.00
                                        S 1 in S.half; raise mound of stone 3 ft.
            base, 3 ft. high, N.of cor. Dry wash 20 lks.wide, course N.45°W.
59.30
75.00
            Dry wash, 30 lks.wide, course N.10°W.
            Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1,2,35 and 36, with a
80.00
                  brass cap, marked
                                        T 40 N in N.,
                                       T 39 N in S., and R 16 W in W.halves,
                                      S 35 in NW.,
S 36 in NE.,
S 1 in SE., and
                                        S 2 in SW. quadrants; raise mound of
                  stone 3 ft.base, 3 ft. high, W. of cor.
            Land, gentle NW. slope.
            Soil, very rocky and sandy, coarse texture 2 to 3 ft. deep. Undergrowth, shellac brush and cactus, 3 to 5 ft. high.
             west, bet. secs.2 and 35.
            Over gently rolling land, through shellac brush, 2 to 3
                  it. high. Soil, sandy with scattering cactus.
            Wagon road from Littlefield, Arizona to Mesquite, Nevada,
 7.70
                  bears N.30°E. and S.30°W.
9.70
15.50
            Descend SW. slope, 20 ft. to Bottom of descent; ascend NE. slope, 20 ft.
            Top of ascent; thence over rolling land.
20.00
            Dry wash, 15 lks.wide, course N.50°W.
26.20
            Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked
40.00
                                        \frac{1}{4} S 35 in N., and S 2 in S.half, and raise mound of stone
            2 ft.base, 2 ft. high, N.of cor.

Descend steep NW. slope, 300 ft. to river.

Left edge of Virgin River, thence through river channel,
water 2 to 3 ft. deep, course SW.
46.60
51.70
53.50 60.80
            Leave water, thence over sand bar in river channel.
            Right bank of river, 3 ft. high, thence over level bottom land, through shellac and mesquite brush 4 to 8 ft. high; soil very sandy.
            Ascend steep SE. slope of bluff, 300 ft. Top of bluff, thence over gentle sloping bench land.
65.60
70.50
            Dry ravine, 10 lks.wide, course south.

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2,3,34 and 35, with a
72.00
80.00
                  brass cap, marked
                                        T 40 N in N.,
                                       T 39 N in S., and
R 16 W in W.halves,
                                        S 34 in NW.,
S 35 in NE.,
S 2 in SE., and
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North boundary of Township 39 North, Range 16
  Chains
               S 3 in SW. quadrants; raise a mound of stone 3 it.base, 3 ft. high, W. of cor.
East 46 chains slightly rolling loose sandy soil, 2 to 3
                     ft.deep, with some rock.
                Undergrowth, shellac brush, 2 to 3 ft. high.
               West, 34 chains, broken and mountainous.
                Thin soil.
               At the above described cor., I set off 23°24'S. on the decl.arc, and at llh.51m.39s. a.m., l.m.t., I observe the sun on the meridian, and obtain on the lat.arc, the reading 36°49'N., which agrees with the other
                     data.
               West, bet. secs. 3 and 34.

Over rolling bench land, through shellac brush, tl to 3 ft. high, with scattering eactus, 2 to 3 ft. high.
               Ravine 50 ft. deep, 15 lks. wide, course S. 10°W.
   2.10
               Descend sandy SW. slope 40 ft. Foot of descent, bears N. and S.; thence over level bench
 15.50
18.00
                     land of loose sandy soil.
 40.00
               Set an iron post 3 ft. long, 1 in. in diam., 26 ins.in the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked.
               1 S 34 in N. and S 3 in S. half; dig pits 18x18x12 ins. E and W of cor 3 ft. distant, and traise a mound of earth; 3 ft. base, 1 ft. high, N. of cor. Leave level hench lands, bears N. 45°E., and S. 45°W.; thence
 61.00
              along south side of bluff.
Sylvester's house bears S.7°E.
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins.in
the ground for cor.of secs.3,4,33 and 34, with a brass
 68.80
 80.00
                     cap, marked
                                             T 40 N in N.,
                                            T 39 N in S., and R 16 W in W. halves,
                                            S 33 in NW.,
S 34 in NE.,
              S 3 in SE., and
S 4 in SW. quadrants; and raise a mound of stone 4 ft. base, 2 ft. high, W. of cor.

East, 60 chs. loose, sandy soil; fine texture 20 to 3 ft.
                    deep.
              Undergrowth, shellac brush, 2 to 3 ft. high. West 20 chs. along side of bluff; soil, thin and gravelly.
              No vegetation.
              West, bet. secs. 4 and 33; ascending SE. slope of bluff over gravelly land; no wegetation.
             Top of bluff, thence over slightly rolling bench land; very sandy soil, through shellac brush, 2 to 3 ft.high. Leave rolling land, bears N.and S., thence over level
 7.50
17.50
                    bench land.
25.50
              Dry wash, 5 lks.wide, course S.10°E.
             Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked \( \frac{1}{4} \) S 33 in N., and \( S \) 4 in S. half; dig pits 18x18x12 ins.E. and W of cor. 3 ft. dist. and raise a mound of cort.
40.00
                 and W of cor. 3 ft. dist., and raise a mound of earth 3 ft. base, 1 ft. high, N. of cor.
46.80
             Wagon road, brs. N.50°E.
48.12
             Telephone line from mesquite, Nevada, to Littlefield, Ariz., bears N.45°E. and S.45°W.
             Set an iron post 3 rt. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 4,5,32 and 33, with a
80.00
                   brass cap, marked
T 40 N in N.,
T 39 N in S., and
R 16 W in W. halves,
                                           S 32 in NW:;
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| 18 | North boundary of Township 39 North, Range 16 West. |
|----------------|--|
| Chains | |
| | S 4 in SE., and S 5 in SW. quadrants; 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. East, 20 chs. rolling. West, 60 chs.level; soil, throughout loose, sandy, medium texture, 2 to 3 ft. deep. Undergrowth, shellac brush and scattering cactus, 3 to 4 ft. high. |
| | |
| | West, bet. secs.5 and 32. Over level, sandy land, through shellac brush and cactus |
| | 3 to 4 ft. high. |
| 17.50 40.00 | Dry wash, 40 1ks.wide, course south. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec.cor., with a brass cap, marked \(\frac{1}{4}\) S 32 in N., and |
| | S 5 in S.half; raise a mound of stone 3 ft. base, 3 ft. high, N. of cor. |
| | Thence over rolling sandy land. |
| 47.00 | Dry wash, 30 lks.wide, course S.20°E. |
| 59.88 | Intersect the Nevada-Arizona State Bdy., 12.50 chs.N.0°03 E. of 313 mile cor. At the above described point of intersection, I set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 5 and 32, with a brass cap, marked T 40 N in N., |
| • | R. 16 W in E., and T 39 N in S. halves, |
| | S 32 in NE., and |
| | S 5 in SE. quadrants; dig pits 30x24x12 ins. crosswise on each line N.and S 3 ft. distant, and E 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor. |
| | The above cor. was not set until after mile 313 Nevada Arizona State Bdy. had been resurveyed by me, Dec. 25, 1912, notes in Book "D." |
| | East, 40 chs.level. West. 19.88 chs. rolling. soil loose |
| • | East, 40 chs.level. West, 19.88 chs., rolling, soil, loose sandy, medium texture, 2 to 3 ft. deep. |
| | Undergrowth, cactus and shellac brush, 2 to 4 ft. high. Dec. 19, 1912. |
| • | |
| | Boundaries of Township 40 North, Range 16 West. Latitudes, departures and closing errors. |
| Line de | esig- True Dist. Latitudes. Departures. |

| Line desig- nated. | True bearing. | Dist. | Lati N. | tudes. S. | Departu E. | res. |
|--|---|---|------------------|--------------|--|--------------|
| South bdy. | West, | 379.88 | | | | 379.88 |
| Nev.Ariz,Bdy. Mile 313, " 312, " 311, Bet.secs.20&29, " " 21&28, " " 22&27 " " 23&26, " " 24&25, | N.0°3'E. N.0°40'W. N.0°40'W. East, East, East, N.89°55'E. | 67.48 79.73 13.09 60.84 80.02 80.00 80.09 | 79.73 13.09 | 0.22 | 0.06 60.84 80.02 80.00 80.00 | 0.93 0.15 |
| East Bdy., Convergency, | South, | 160.00 | | 160.00 | 0.14 | 0.14 |
| | Totals, | | 160.42 160.22 | | 381.15 380.96 | 380.96 |
| | Error in la | | 0.20 | | 0_19_ | . - |
| | | • | | | | |

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houndary of Townshin 39 North Range
 Chains
                      49'N. on the lat.arc; 23° 24½'S.on the decl.arc, and determine a meridian with the solar at the cor.of Ts. 39 and 40 N., Rs.15 and 16 W., set by me Nov.29,1912, and hereinher described
                Dec.
                      and hereinbefore described.
                Thence I run,
                South, on range line, bet. secs. 1 and 6, ascending NW. slope, over very rocky land, through cactus and shellac
                      brush, 3 to 4 ft. high.
wash, 3 lks.wide, course W.
 1.20
2.70
7.50
16.50
31.70
               Dry wash, 3 lks.wide, course w. Dry wash, 20 lks.wide, course N.60°W.
               Dry wash, course W.
               Dry wash, 60 lks.wide, course N.70°W.
Dry wash, 40 lks.wide, course N.45°W.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in.
the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked \( \frac{1}{4} \) S 1 in.W., and
S 6 in E-half; raise mound of stone 3 ft.
 40.00.
                      base, 2 ft. high, W. of cor.
               Dry wash, 15 lks.wide, course N.70°W.
Dry wash, 5 lks.wide, course N.30°W.
Dry wash, 40 lks. wide, course N.70°W.; thence along west
 51.70
61.00
 65.20
                     slope.
 79.80
               Dry wash, 5 lks.wide, course N.6°W.
               Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1,6,7 and 12, with a brass
 80.00
                      cap, marked
                                              T 39 N in N.half,
                                              R 16 W S 1 in NW.,
                                              R 15 W S. 6 in NE.,
S 7 in SE., and
S. 12 in SW quadrants; and raise a mound of
               stone 3 ft.base, 3 ft. high, W. of cor. Land, rolling, very rocky.
               Soil, sandy, coarse texture, 2 to 3 ft. deep. Undergrowth, cactus and shellac brush.
              South, bet. secs.7 and 12.

Along west slope, over very rocky land, through cactus and shellac brush, 2 to 4 ft. high.
  1.20
               Dry wash, 5 lks.wide, course W.
              Dry wash, 20 lks.wide, course W. Dry wash, 15 lks.wide, course N.70°W. Dry wash, 20 lks.wide, course W.
  5.50
9.20
10.80
11.30
              Dry wash, 30 lks.wide, course N.45 W.
20.30
22.80
34.50
35.80
40.00
              Dry wash, 10 lks.wide, course W.
              Dry wash, 15 lks.wide, course S.20°W.

Dry wash, 10 lks.wide, course S.20°W.

Dry wash, 15 lks.wide, course S.30°W.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ½ sec.cor., with a brass cap, marked
              $\frac{1}{4}$ S 12 in W., and
$ 7 in E.half; and raise a mound of stone
$ 5 ft. high, W. of cor.

Dry wash, 20 lks. wide, course W.

Dry wash, 5 lkg wide, course S 7000
47.00
              Dry wash, 20 lks.wide, course w.
Dry wash, 5 lks.wide, course S.70°W.
Dry wash, 20 lks.wide, course N.10°W.
Dry wash, 10 lks.wide, course N.10°W.
Dry wash, 5 lks.wide, course W.
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.7,12,13 and 18, with a
60.10
65.30
71.50
74.20
80.00
                    brass cap,
                                             marked
                                             T 39 N in N.half
                                             R 16 W S 12 in NW.,
                                             R 15 W S 7 in NE.,
S 18 in SE., and
S 13 in SW. quadrants, and raise a mound
                    of stone 3 ft.base, 3 ft. high, w. of cor.
              Land, rolling W. slope.
              Soil, vo. deep.
                          very rocky and sandy, coarse texture, 2 to 3 ft.
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houndary of Township 39 North, Range 16 West
Chains
                  Undergrowth, cactus and shellac brush, 2 to 3 ft. high.
                  At the above cor., I set off 23°25'S. on the decl.arc, and at 11h. 50m. 9s. a.m., 1.m.t., I observe the sun on the meridian; the resulting lat. is 36° 47'N.
                  Thence I run,
South, bet. secs. 13 and 18.
Along gentle west slope, over rocky land, through cactus and shellac brush, 2 to 4 ft. high.
                 and shellac brush, 2 to 4 ft. high.

Dry wash, 20 lks.wide, course N.30°W.

Dry wash, 5 lks.wide, course N.30°W.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 2 sec.cor., with a brass cap, marked

2 S 13 in W., and

S 18 in E.half, and raise a mound of stone

3 ft.base, 3 it. high, W. of cor.

Dry wash, 5 lks.wide, course N.70°W.

Dry wash, 10 lks.wide, course N.30°W.

Dry wash 20 lks.wide, course N.45°W.

Wagon road, brs. N. 45°W., and S.45°E.

Dry wash, 5 lks.wide, course N.20°W.

Dry wash, 5 lks.wide, course N.20°W.

Dry wash, 5 lks.wide, course N.20°W.

Dry wash, 5 lks.wide, course N.45°W.

Dry wash, 5 lks.wide, course N.30°W.
7.50
30.20
35.50
40.00
45.30
50.70
 52.60
 60.00
60.40
 63.50
76.80
                  Dry wash, 5 1ks.wide, course N.30°W.

Set an iron post 3 it. long, 3 ins. in diam., 24 ins.
the ground for cor.of secs.13,18,19 and 24, with a
                                                                                                                                        24 ins. in
 80.00
                          brass cap, marked,
                  T 39 N in N. half;
R 16 W S 13 in NW.,
R 15 W, S 18 in NE.,
S 19 in SE., and
S 24 in SW. quadrants, and raise a mound of stone 3 ft. base, 3 ft. high, W. of cor.
Land, slightly rolling W. slope.
                   Soil, very rocky and sandy, coarse texture, 2 to 3 ft.
                   Undergrowth, cactus and shellac brush.
                   South, bet. secs. 19 and 24.
                   Along gentle W slope, over very rocky land, through cactus and shellac brush, 3 to 4 ft. high.
                   Dry wash, 20 lks.wide, course W.
 12.50
15.40
                   Dry wash, 15 lks.wide, course N.40°W. Dry wash, 10 lks.wide, course N.45°W.
                  Dry wash, 10 lks.wide, course N.45°W.

Dry wash, 15 lks.wide, course W.

Dry wash, 10 lks.wide, course W.

Dry wash, 25 lks.wide, course W.

Dry wash, 10 lks.wide, course N.30°W.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 4 sec.cor., with a brass cap, marked \( \frac{1}{2} \) S 24 in W., and
 20.00
 26.50
 29.20
 35.50
36.90
40.00
                                                          \frac{1}{4} S 24 in W., and
                   S.19 in E.half; and raise a mound of stone 3 ft. base, 3 ft. high, W. of cor. Dry wash, 15 lks. wide, course N.40°W.
 40.80
 45.00
                   Dry wash, 10 lks.wide, course W.
                   Dry wash, 20 lks.wide, course N. 30°W. Dry wash, 40 lks. wide, course N.45°W. Dry wash, 10 lks.wide, course N.60°W. Dry wash, 15 lks.wide, course W.
 48.50
 55.00
59.00
64.60
                   Dry wash, 40 lks.wide, course N.40°W.

Dry wash, 10 lks.wide, course N.30°W.

Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor.of secs.19,24,25 and 30, with a
 68.50
78.50
 80.00
                           brass cap, marked
                                                          T 39 N in N. half;
R 16 W S 24 in NW.,
R 15 W S 19 in NE.
                                                                             S 19 in NE.;
                                                          S 30 in SE., and
S 25 in SW. quadrant; and raise a mound of
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boundary of Township 39 North, Range 16 West
Chains
                   stone 3 ft. base, 3 ft. high, W. of cor.
             Land, rolling.
             Soil, very rocky and sandy, coarse texture 3 to 4 ft.
             Undergrowth, cactus and shellac brush, 3 to 4 ft. high.
                   deep.
                                                                                     Dec. 20, 1912.
             Dec. 21, 1912.
             At 10h. 0m. a.m., l.m.t., at the above cor., I set off 36° 45 N. on the lat.arc; 23°25'S. on the decl.arc, and
                   determine a meridian with the solar.
             Thence I run,
             South, bet. secs. 25 and 30.
            Along gentle west slope, over very rocky land, through shellac brush and cactus, 3 to 4 ft. high.

Dry wash, 20 lks. wide, course W.
  1.20
17.50
             Dry wash, 15 lks.wide, course N.60°W.
            Leave rocky land, bears E. and W.; thence along gentle W. slope, over less sandy land.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked \( \frac{1}{4} \) S 25 in W. and
23.00
40.00
                                        S 30 in E-half; and raise a mound of stone
            2 ft.base, 2 ft.high, wor cor.
Dry wash, 40lks.wide, course N.20°W., thence ascending along NW. slope, over very rocky land.
Dry wash, 40 lks.wide, course N.10°W.
Dry wash, 40 lks.wide, course N.10°W.; thence ascending N. slope, over rocky washy land.
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, with
                  2 ft.base, 2 ft.high, Woor cor.
48.10
52.50
55.60
90.08
                  brass cap, marked
                                        T 39 in N.half;
R 16 W S 25 in NW.,
                                        R 15 W, S 30 in NE.,
                                        S 31 in SE., and
                                        S 36 in SW. quadrant, and raise a mound of
             stone 3 ft.base, 3 ft. high, W. of cor. N. 23 chs. rolling, rocky land.
            Soil, sandy, coarse texture, 2 to 3 ft. deep.
23 to 48 chs., slightly sloping; good sandy loam, medium texture, 2 to 3 ft. deep.
            South, 32 chs., washy, very rocky. Soil, sandy, coarse texture, 1 to 2 it. deep.
             Undergrowth, shellac and cactus brush.
            South, bet. secs. 31 and 36.
            Ascending N. slope, over rocky washy land, through cactus
                  and shellac brush, 2 to 3 ft. high.
17.50
28.70
31.50
38.30
            Dry wash, 15 lks.wide, course N.30°W. Dry wash, 30 lks.wide, course W. Wagon road, brs.E. and W.
            Ascend steep N.slope of Virgin Mountains to cor.
            Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \( \frac{1}{4} \) sec.cor., with a brass cap, marked \( \frac{1}{4} \) S 36 in W., and \( S \) 31 in E.half; and raise a mound of stone
40.00
                  3 it.base, 3 it. high, W. or cor.
            Ascend steep rocky slope of Virgin Mountains, 600 ft.

Top of rocky spur, slopes W.; descend 200 ft. into canyon.

Bottom of canyon, dry wash 20 lks.wide, course N.20°W.;

thence ascend 600 ft. along steep NE. slope.
60.00
65.00
            Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of Tps. 38 and 39 N., Rs. 15 and
80.00
                    16 W., with a brass cap, marked
                                        T 39 N in N.,
R 15 W in E.,
                                        T 38 N in S., and
R'16 W in W. halves; and raise a mound of
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East houndary of Township 39 North, Range 16 West
Chains.
                       stone 4 ft.base, 3 ft. high, S.of cor.
                N. 38 chs. gentle rocky N. slope.
               Soil, sandy, coarse texture, 2 to 3 ft. deep.
S 42 chs., rough and mountainous; soil, sandy and very
rocky; coarse texture 1 to 2 ft. deep.
               Undergrowth, cactus and shellac brush.
                                                                                                         Dec. 21, 1912.
                South Boundary of Township 39 North, Range 16 West.
               Dec. 23, 1912. At 10h. 0m. a.m., l.m.t., at the above cor., I set orf 36^{\circ} 43\frac{1}{2} N. on the lat.arc; 23^{\circ}24\frac{1}{2} S. on the decl.arc, and determine a meridian with the
                       solar.
                Thence I run,
                West, bet. secs.1 and 36.
               Descending NW. slope of Virgin Mountains, 1000 ft.

Dry wash, 40 lks.wide, course N.70°W.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., with a brass cap, marked $\frac{1}{4}$ S 36 in N., and

S 1 in S.half; and raise a mound of stone
34.70
40.00
               2 ft.base, 2 ft. high, N. of cor.
Foot of Virgin Mountains, bears N. 45°E., and S 45°W. Dry wash 75 lks.wide, course N. 45°W. Thence along gentle N. slope, through cactus and shellac brush, 3 to 4 ft.
46.80
                       high.
               Dry wash, 50 lks.wide, course N.30°W.

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
the ground for cor.of secs. 1,2,35 and 36, with a
76.50
80.00
                    brass cap, marked
                                                  T 39 N in N.,
T 38 N in S., and
R 16 W in W.halves,
                                                  S 35 in NW.,
S 36 in NE.,
               S 1 in SE., and
S 2 in SW. quadrants, and raise a mound of stone 3 ft.base, 3 ft. high, W. of cor.
E. 46 chs.rough and mountainous.
                Soil, very rocky and sandy, coarse texture, \frac{1}{2} to 2 ft.
                    deep.
                W.34 chs.gentle N.slope; soil, sandy and rocky, 2 to 3 ft.
                       deep.
                Undergrowth, cactus and shellac brush.
                West, bet. secs.2 and 35.
                Along gentle N.slope, over rolling, rocky land, through scattering yucca trees, cactus and shellac brush, 3 to
              4 ft.high.

Dry wash, 15 lks.wide, course N. 30°W.

Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for ½ sec.cor., with a brass cap, marked ½ S 35 in N., and

S 2 in S.half, and raise a mound of stone 2 ft.base, 2 ft.high, N. of cor.

Dry wash, 20 lks.wide, course N.

Wagon road, brs. N.10°W., and S.10°E.

Leave yucca trees, thence over good sandy land.

Dry wash, 60 lks.wide, course N.20°W.

Dry wash, 70 lks.wide, course N.

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2,3,34 and 35, with a brass cap, marked
                       4 ft.high.
25.30
40.00m
53.90
54.30
60.00
64.20
79.50
80.00
                       brass cap, marked
                                                  T 39 N in N.,
T 38 N in S., and
                                                  R 16 W in W.half,
                                                  S 34 in NW.,
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Roundary of Township 39 North, Range 16
Chains
                        in the ground for & sec.cor., with a brass cap, marked
                       ½ S 33 in N., and
S 4 in S half, and raise a mound of
stone 3 ft.base, 3 ft. high, N of corner.
                Dry wash, 35 lks.wide, course N.
Dry wash, 20 lks.wide, course N.30°E.
Dry wash, 15 lks.wide, course N.20°E.
Dry wash, 10 lks. wide, course N.10°W.
49.00
60.00
62.50
69.90
76.30
79.20
                Dry wash, 15 lks.wide, course N.10°E.

Dry wash, 5 lks.wide, course N.

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

in the ground for cor.of secs. 4, 5, 32 and 33, with
80.00
                       in the grown a brass cap, marked
T 39 N in N.,
T 38 N in S., and
R 16 W in W.halves,
T 32 in NW.,
                                                S 33 in NE.,
S 4 in SE., and
S 5 in SW. quadrants, and raise a mound
3 ft.base, 3 ft. high, W. of cor.
                 of stone 3 ft.base, 3 ft. high, W.or cor.
Land, rolling.
Soil, rocky and sandy; coarse texture, 2 to 3 ft. deep.
Undergrowth, cactus and shellac brush, with scattering
                         yucca treees.
                  West, bet. secs. 5 and 32.
Ascending gentle NE. slope, over rocky land, through
                 cactus and shellac brush, 2 to 4 ft. high, with scattering yucca trees, 10 to 13 ft. high.

Dry wash, 30 lks.wide, course N.

Wagon road, brs. N.30°W., and S.30°E.

Dry wash, 15 lks.wide, course N.

Dry wash, 15 lks.wide, course N.20°E.

Dry wash, 10 lks.wide, course N.15°W.
 1.50
9.90
12.40
  14.00
                  Dry wash, 10 lks.wide, course N.45°W.
Old wagon road, brs. N.10°W., and S.10°E.
  20.10
  26.00
                  Dry wash, 30 lks.wide, course N. Dry wash, 10 lks.wide, course N.
  27.50
  39.90
```

40.00

Set an iron post 3 ft. long 1 ins. in diam. 26 ins in the ground for $\frac{1}{4}$ sec. cor. with a brass cap marked $\frac{1}{4}$ S 32 in N. & S 5 in S. half, & raise mound of stone 3 ft. base 2 ft. high N. of cor.

55.00 63.32

Dry wash 15 lks. wide, course N. I intersect the Nevada-Arizona, bdy. 9. 46 chs. N. 0° 52' E. of mile cor. 319. At the above point of intersection I set an iron post 3 ft. long 3 ins. in diam. 24 ins in the ground for closing cor. of Tps. 38 & 39 N. R. 16 W., with a brass cap marked CC in W., & R 16 W in E. halves W., with a brass cap marked CC in W., & R 16 W in E. halve T 39 N. S 32 in N.E., & T 38NS. 5 in S.E. quadrants, & raise a mound of stone 3 ft. base 3 ft. high E. of cor. The above described closing cor was not set until after mile 319 of the Nevada, Arizona Bdy. had been resurveyed, Dec. 24, 1912. and described in Book D. Land slightly rolling.

Land slightly rolling.

Soil rocky & sandy, course texture 2 to 3 ft. deep. Undergrowth cactus & shellac brush with scattering Yucaa trees.

trees.

Dec. 23, 1912.

BOUNDARIES of T. 39 N. R. 16 W. LATITUDES, DEPARTURES AND CLOSING ERRORS.

| Line designated | True | Distance | Latir | vde | Depa. | rture |
|-------------------------|------------|----------------|--------|--------|--------|--------|
| | bearing | Visiance | N. | .ی | E. | W. |
| South Boundary 12 | East | 383.32 | | · | 383.32 | |
| East Boundary - | North | 480.00 | 480.00 | | | |
| North Boundary | West | 37 <i>9.88</i> | | | | 379.88 |
| Mile 313 Nev. Ariz. bdy | 5.0°03'W | 12.50 | | 12.50 | | 0.01 |
| " 314 " " " | 50°28'E | 77.43 | | 77.43 | 0.63 | |
| u 315 " " | 58 28 E | 7743 | | 77.43 | 0.63 | |
| 3/6 !! !! !! | 5.0° 31 W. | 80.50 | | 80.50 | | 0.73 |
| " 317 " " " | 5.0°31'W. | 80.55 | | 80.55 | - | 0.73 |
| | 50°56W | | | 80.53 | | 1.31 |
| " 319 " " " | 50°52'W. | 76.10 | | 71.09 | | 1.08 |
| Converg | ency | | | | | 0.44 |
| | Totals | 5 | | 480.00 | | 3841 |
| | Errorin | lat. | 6.78 | 0.03 | 384.1 | |
| | | Error | in de | ,0 | 0.40 | |

Thomas B. Matthews U.S. durrya

OOK Zeer

CERTIFICATE OF ASSISTANTS.

| We, the undersigned, hereby c | ertify upon honor that | we assisted, to the best | of our skill and ability, |
|-------------------------------------|---------------------------------------|--------------------------|---------------------------|
| Thomas B. Metthe | , U. S. Sur | veyor, during the perio | ds and in the capacities |
| stated opposite our several signatu | | | |
| * Tp 42 N. R. 15 Wh, East | | A | / |
| R.15W; partion W. | | | |
| partian South holy | To 40 N- R151 | 1. South how To | 1000-11/11/ |
| South By. To 30 | N-PILINE | 4 / / T 20 N | PULL A PULL |
| Sauth Bely Tp. 39/ | * | pay pay | T.10 W. |
| | · · · · · · · · · · · · · · · · · · · | | · |
| | | | |
| of the Gila + delt-Rive | Bose Y Meridian, in t | he State of | ma |
| which are represented in the forego | ing field notes as havin | g been executed by his | m, and under his direc- |
| ion; and that said survey has bee | · · | • | |
| aithfully executed. | , wil 100p0000, 00 th | gperword our knownedg | se and belief, well and |
| ordinary oxoodica. | DUDIOD O | B ODDAY | |
| NAME. | BEGUN. | F SERVICE. | CAPACITY. |
| 1.0.1 | | | |
| 1 Juriseur | | 2 Sless 9 19/2 | |
| Moreseu | Plan 29 1912 | Her 25 1911 | Charman |
| Hoenry Vrelener | Du 2 1912. | Dec 10 1912 | Chairman |
| Wallsclaverson | Du 17 1912 | | |
| Stephen R. Linge | Jun 1 1912 | 1- 11-1913 | 16- |
| Joh B Paur | 27 10 101 | Jan 104112 | Manman |
| DI | 12 17 1112 | Jan 10 1913 | Maman |
| Robert Rober Hazold Rober | Du 19 19/2 | Jen 10 191 | Myman |
| Hazold Reber | 200.19/2/2 | Jan 10 1913 | Commen |
| affred Frehre | De 10 1912 | Dec. 18- 19/2 | Togman |
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Subscribed and certified to before me on the dates of the final service as shown above.

Thomas B. Matthus
U. S. Surveyor.

6-2764

3 200K 245

FINAL OATH OF UNITED STATES SURVEYOR.

| 2445 | |
|--|--|
| I, Thomas B. Matthewn, U. S. Surveyor, do sol | emnly swear that, in pursuance |
| of special instructions received from the U.S. Surveyor General for | izana |
| bearing date of the day of June, 1912, I i | |
| in my own proper person, and in strict conformity with said instruct | 7 |
| Instructions, and the laws of the United States, surveyed all those parts of | |
| Jo 42 M. R. 15W.; East Bdy. 4 41 M., R. 45 W.; 10th Stand | Par N. through P. 15 White |
| portion W. bdy Tp41N, R.15W.; West bdy Tp40N, A | 215111: partion 5 bdg |
| Tp. 40 N. R. 15 W., South boy. Tp. 40 N., R. 16 W., South | by To 39 N RYGW |
| East bdy. Tp. 39 N., R. 16 W. | |
| | f the de de 4 delt |
| Rine Base & Meridian, in the State of Carina | |
| | The control of the control of the second of |
| the foregoing field notes as having been executed by me, and under me solemnly swear that all the corners of said survey have been established a | |
| | |
| ance with the Manual of Surveying Instructions, and the special written in | |
| General for and in the specific manner descr | thed in the held notes, and that |
| the foregoing are the original field notes of such survey. | |
| 7 Change | B. Matthews |
| () | U. S. Surveyor. |
| A Druge | • |
| Subscribed by said Journ to before | me } |
| this day of lebourne, 191 3 | • |
| | 11 |
| Chauf & | ingall |
| | <i></i> |
| SUB | VEYDA-GENERAL OF AREZONA |
| SUE | VEYOR-BENERAL OF AREZONA |
| SUE | VEYON-GENERAL OF AREZONA |
| APPROVAL. | VEYON-GENERAL OF AREZONA |
| APPROVAL. | VEYON-GENERAL OF AREZONA |
| APPROVAL. OFFICE OF THE UNITED STATES SU | VEYON-SENERAL OF AREZONA RVEYOR GENERAL, |
| Office of the United States Su | RVEYOR-SENERAL OF AREZONA RVEYOR GENERAL, May 1, 1913 |
| Office of the United States Su Phoenix, Ariz. | , May 1, 1913 |
| Office of the United States Su | , May 1, 1913 p 42 North, Range |
| Office of the United States Surphoenix, Ariz. The foregoing field notes of the survey of East Bdy. Townshif 15 West; East bdy. Tp. 41 North, Range 15 West, | , May 1, 1913 p 42 North, Range 10th Standard |
| Office of the United States Surphoenix, Ariz. The foregoing field notes of the survey of East Bdy. Townshire 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; portion | , May 1, 1913 p 42 North, Range 10th Standard West Bdy. Township |
| Office of the United States Surphoenix, Ariz. The foregoing field notes of the survey of East Bdy. Townshif 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; portion 41 North, Range 15 West, West Bdy. Township 40 Mest. | , May 1, 1913 p 42 North, Range 10th Standard West Bdy. Township Jorth, Range 15 West, |
| Office of the United States Survey of The foregoing field notes of the survey of East Bdy. Townshif 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; portion 41 North, Range 15 West, West Bdy. Township 40 North, Range 15 Portion of South Bdy. Township 40 North, Range 15 Portion 15 North, Range 15 Portion 16 South Bdy. Township 40 North, Range 17 Portion 17 North, Range 17 Portion 17 North, Range 17 Portion 17 North, Range 17 Portion 18 North, Range 18 Portion 18 North, Range 19 Portion 18 Nor | , May 1, 1913 p 42 North, Range 10th Standard West Bdy. Township North, Range 15 West, 5 West, South Bdy. |
| Office of the United States Survey of Pheenix, Ariz. The foregoing field notes of the survey of East Bdy. Townshi 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; portion 41 North, Range 15 West, West Bdy. Township 40 North, Range 1 portion of South Bdy. Township 40 North, Range 1 Township 4 Tow | , May 1, 1913 p 42 North, Range 10th Standard West Bdy. Township North, Range 15 West, 5 West, South Bdy. Inship 39 North, |
| Office of the United States Survey of East Bdy. Township 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; portion 41 North, Range 15 West, West Bdy. Township 40 North, Range 1 Range 16 West, and East Bdy. Township 39 North Range 16 West, and East Bdy. Township 39 North | May 1, 1913 p 42 North, Range 10th Standard West Bdy. Township North, Range 15 West, 5 West, South Bdy. Inship 39 North, Range 16 West, |
| Office of the United States Surpheenix, Ariz. The foregoing field notes of the survey of East Bdy. Township 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; Portion 41 North, Range 15 West, West Bdy. Township 40 Mportion of South Bdy. Township 40 North, Range 1 Township 40 North, Range 16 West, South Bdy. Township 40 North Range 16 West, South Bdy. Township 39 North executed by Thomas B. Matthews, | , May 1, 1913 p 42 North, Range 10th Standard West Bdy. Township North, Range 15 West, 5 West, South Bdy. nship 39 North, h, Range 16 West, |
| Office of the United States Surpheenix, Ariz. The foregoing field notes of the survey of East Bdy. Township 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; Portion 41 North, Range 15 West, West Bdy. Township 40 North, Range 1 Township 40 North, Range 1 Township 40 North, Range 16 West, South Bdy. Township 40 North Range 16 West, South Bdy. Township 39 North executed by Thomas B. Matthews, under his special instructions dated June 6, | , May 1, 1913 p 42 North, Range 10th Standard West Bdy. Township North, Range 15 West, 5 West, South Bdy. nship 39 North, h, Range 16 West, 1912, having been |
| Office of the United States Surpheenix, Ariz. The foregoing field notes of the survey of East Bdy. Township 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; Portion 41 North, Range 15 West, West Bdy. Township 40 North, Range 15 Township 40 North, Range 16 West, South Bdy. Township 40 North, Range 16 West, South Bdy. Township 39 North executed by Thomas B. Matthews, under his special instructions dated June 6, critically examined, and the necessary corrections and explanations made | , May 1, 1913 Description of the Range 10th Standard West Bdy. Township North, Range 15 West, Swest, South Bdy. Inship 39 North, Range 16 West, 1912, having been de, the said field notes, and the |
| Office of the United States Surpheenix, Ariz. The foregoing field notes of the survey of East Bdy. Township 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; Portion 41 North, Range 15 West, West Bdy. Township 40 North, Range 15 Township 40 North, Range 16 West, South Bdy. Township 40 North, Range 16 West, South Bdy. Township 39 North executed by Thomas B. Matthews, under his special instructions dated June 6, critically examined, and the necessary corrections and explanations made | , May 1, 1913 Description of the Range 10th Standard West Bdy. Township North, Range 15 West, Swest, South Bdy. Inship 39 North, Range 16 West, 1912, having been de, the said field notes, and the |
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| Phoenix, Ariz. The foregoing field notes of the survey of East Edy. Township 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; Portion 41 North, Range 15 West, West Edy. Township 40 North, Range 15 Township 40 North, Range 16 West, South Edy. Township 40 North, Range 16 West, South Edy. Township 39 North executed by Thomas E. Matthews, under his special instructions dated June 6, critically examined, and the necessary corrections and explanations made surveys they describe, are hereby approved. | May 1, 1913 De 42 North, Range 10th Standard West Bdy. Township North, Range 15 West, Swest, South Bdy. May 1, 1913 Mest Bdy 1915 North, Range 16 West, 1912, having been be, the said field notes, and the said field notes, and the said field notes. |
| Office of the United States Surpheenix, Ariz. The foregoing field notes of the survey of East Bdy. Township 15 West; East bdy. Tp. 41 North, Range 15 West, Parallel North, through Range 15 West; Portion 41 North, Range 15 West, West Bdy. Township 40 North, Range 15 Township 40 North, Range 16 West, South Bdy. Township 40 North, Range 16 West, South Bdy. Township 39 North executed by Thomas B. Matthews, under his special instructions dated June 6, critically examined, and the necessary corrections and explanations made | May 1, 1913 Described surveys in 1913 Described North, Range 10th Standard West Bdy. Township West Bdy. Township West, South Bdy. John May 1, 1913 West Bdy Township West, South Bdy. John May 1, 1913 West Bdy Township West, South Bdy. John May 1, 1913 West Bdy Township John May 1, 1913 John May 1, 1913 West Bdy Township John May 1, 1913 John May 1, 1913 John May 1, 1913 West Bdy Township John May 1, 1913 John May 1, |

U. S. Surveyor General.