OF THE SURVEY OF THE

Dubdificional Luies of J21 7, R/6W
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Of the Meridian,
In the State of Stritony of Clinana
EXECUTED BY
Some March
The Control of the Co
In the capacity of U.S. Surveyor, under instructions dated Left. 16, 1910,
issued by the United States Surveyor General to govern surveys included in
Group No. , which were approved by the Commissioner of the General Land
Office, 1910, pursuant to authority contained in the Act of
Congress dated Strucy 27, 191 /899 220
Survey completed full for 191/
2307

For Oath, on Book B.

BOOK 2307

# INDEX DIAGRAM.

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Note: For M. Mest Book S. Sup 10

### Subdivision of T. 21 N., R. 16 W.

Chains,

Survey commenced March 26, 1911, and executed with a W. & L. E. Gurley light mountain transit, cpecial make, unnumbered, with Burths patnet solar attachment. The horizontal limb of the instrument is provided with two double verniers placed opposite to each other, and each reading to 1 of arc, which is also the least reading of the verniers of the latitude and declination arcs. Since it is impracticable to prodeed to the Std. cor. of secs. 35 & 36, on the S. bdy. of T. 21 N., R. 16 W., in time to make a solar observation this p.m., I proceed as follows:

At a point near my camp, near the cor. of secs. 22,23,26 & 27, T. 21 N., R. 15 W., I examine and test carefully all the adjustments of my transit and solar apparatus. Finding all parts of my instrument in correct adjustment as to tests; then, in order to test the solar apparatus, by comparing the results of observations on the sun, for meridians, made during p.m. & a.m. hours, respectively, with a true meridian established by Polaris observation, I proceed as follows:

At 4h p.m., l.m.t., I set off 2.5 %. on the decl.arc, and 35.11 N. on the lat. arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a cross on a fixed stone 5 chs. N. of my station.

my station.
At 7hm 10m. p.m., l.m.t., I observe Polaris at Western Elongation, in accordance with instructions in the "Manual", and mark the line thus determined by a tack in a stake driven firmly in the ground 6 chs. N. of my station.

March 26, 1911.

March 27, 1911.

At 8h a.m., l.m.t., I set off the azimuth of Polaris, 1 252 to the East, and mark the true meridian thus determined by a cross on the fixed stone 5 chs. N. of my station, which point falls .40 ins. E. of the point in the meridian as established by the solar on preceding evening.

Then I set off 2°21°N. on the decl. are, and 35°11°N.on the lat. arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a cross on the fixed stone 5 chs. N. of my station, which point falls about .40 ins. E. of the point in the true meridian as established by observation of Polaris. The solar apparatus, by p.m. & a.m. hours observations, defines positions for meridians about 21°W., and 21°E., respectively, of the true meridian as established by Polaris observation. These errors being probably no greater than the usual or personal errors of observation, I conclude that my instrument is in satisfactory adjustment.

The magnetic bearing of the true meridian at 8h a.m., is N. 15°25' W.; the angle thus determined gives the magnetic declination as 15°25' E.

At 9h a.m., l.m.t., at the standard cor. of secs. 35 & 36, on the S. bdy. of T. 21 N., R. 16 W. as re-established by me, and heretofore described,

I set off 2°21½ N. on the decl. arc and 35°9½ N. on the lat. arc, and determine a true meridian with the solar,

Thence I run, as per instructions,

Var. 15°25' E.,

```
Chains .
               N. 0° 1' W., bet. secs. 35 & 36.
                   Over mts., land, desc., through scattering cedar, pinon.
  5.00 Gulch, 15.1 lks. wide, course W., asc. broken SSW. slope.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
                   the ground for 1 sec. cor., marked on brass cap, 1 S. 35 in W., and
                                               S. 36 in E. half,
                   raise a mound of stone 2 ft.base, la ft.high W. of cor.
                   No bearings available. Pits impracticable......
 47.50 Ridge, brs. W. & E., desc. steep. 52.00 Gulch, 50 lks. wide, course W., asc.
  56.20 Ridge, brs. W. & E., desc. more gradual. Leave cedar& Pinon.
  80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 25,26,35 & 36, marked on
                    brass cap,
                                            T. 21 N., R. 16 W. in N. half,
                                            S. 26 in NW.,
                                           S. 25 in NE.,
                   S. 36 in SE., and
S. 35 in SW. quadrants,
raise a mound of stone 2 ft.base, la ft.high W. of cor.
                  No bearings available. Pits impracticable.
   Land, mts., broken. Soil, 3rd rate, stony, gravelly.
No timber. Undergrowth, scattering cedar, pinon, palonegro.
  East, on a random line, bet. secs. 25 & 36.

40.00 Set temp. I sec. cor.

80.04 Intersect E. bdy. of Tp. at a point S lks. S. of cor. of secs. 25.30,31 & 36, whence I run,

S. 89 56 W., on a true line, bet. secs. 25 & 36.

Over mts. land, desc., through cedar & pinon.
  15.00 on high long rocky spur, brs. NW. & SE., desc. steep.
32.00 Gulch, 50 lks. wide, course NW., asc.
40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1 sec. cor., marked on brass cap,

25 in N., and
                                                S. 36 in S. half,
                    raise a mound of stone 2 ft.base, 12 ft.high N. of cor.
  41.50 Spur, brs. MW. & SE.
52.00 Gulch, 50 lks. wide, course NNW., asc. steep.
55.60 Rocky spur, brs. NNW. & SSE., desc. NW. slope.
80.04 To cor. of secs. 25, 26, 35 & 36.
               Land, mts. Soil, 3rd rate, stony, dry. Cedar pinon. At this cor. at nown, clouds obscure the sun. Impracticable to observe the latitude.
                N. 0 1 W., bet. secs. 25 & 26.
                    Over ants. land, desc.
   1.00 Gulch 50 lks. wide, course W., asc. steep.
18.80 Top of high spur, brs. NW, & SE., desc. steep.
40.00 Impracticable to set an iron post, therefore, I
 Juntary Set an iron post, therefore, I set a malpais stone 18x12x6 ins. 12 ins. in the ground for 1 sec. cor, marked 1 on W. face, and raise a mound of stone 2 ft. base, 12 ft. high W.of cor dulch, 50 lks. wide, course NW., asc. steep.

Juntary spur, brs. NW. & SE., desc. prec.

Gulch, 60 lks. wide, course NW., asc. steep.

Juntary spur, brs. NW. & SE., desc. steep.
                     brass cap,
                                             T. 21 N., R. 16 W. in N. half,
                                             S. 23 in NW.,
                                             S. 24 in NE.,
                                             S. 25 in SE., and
                     S. 26 in SW. quadrants, and raise a mound of stone 2 ft.base, l_{\frac{1}{2}} ft.high W. of cor.
                 Land, mts., rough, broken. Soil, 3rd rate, stony, dry.
                 Palonegro, cacti. Few cedars.
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3
 Chains.
             N. 89.56 3., on a random line, bet. secs. 24 & 25.
 Set temp. ½ sec. cor.

1.00 Set temp. ½ sec. cor.

1.00 Set temp. ½ sec. cor.

1.00 Intersect E. bdy. of Tp. at a point 15 lks. N. of cor. of secs. 19,24,25 & 30, whence I run,

N. 89.58 W., on a true line, bet. secs. 24 & 25.

Over mts. land, asc. prec. NE. slope of peak.

2.00 Sec. 24 & 25.

Over mts. land, asc. prec. NE. slope of peak.

2.00 Gulch. 50 lks. wide. course NW. asc.
38.00 Gulch, 50 lks. wide, course NW., asc. 40.01 Impracticable to set an iron post, therefore, I
             Set a granite stone 18x18x8 ins. 12 ins. in the ground for \(\frac{1}{4}\) sec. cor., marked \(\frac{1}{4}\) on N. face, and raise a mound of stone 2 ft.base, 1\(\frac{1}{2}\) ft.high N. of cor. Thence along N. slope, through dense palonegro and
 scrub oak.
76.00 Head of gulch, course NNE., asc.
80.32 To cor. of secs. 23,24,25 & 26.
             Land, mts.
             Soil, 3rd rate, stony, gravelly.
             No timber, in this Tp.
Palonegro, scrub oak, cacti. Fair grazing.
                                                                                                  March 27,1911.
            March 28, 1911.
            At 8h a.m., l.m.t., at the cor. of secs. 23,24,25 & 26,
I set off 2,442 S. on the decl.arc, and 35 11 N. on the
                 lat. arc, and determine a true meridian with the solar.
 Thence I run,

N. 0° 1° W., bet. secs. 23 & 24.

Over mts. land, asc.

2.00 Top of rocky spur, brs. NNE. & SSW., desd.

21.00 Foot of main slope, brs. E. & W. desc. grad.
 35.00 Wash, 30 lks. wide, course WNW.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
                the ground for 1 sec. cor., marked on brass cap,
1 S. 23 in W., and
S. 24 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 32 ft.base, 12 ft.high W. of cor. 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 13,14, 23 & 24, marked on
                brass cap,
                                      T. 21 N., R. 16 W. in N. half,
                                      S. 14 in NW.,
                                      S. 13 in NE.,
               S. 24 in SE., and
S. 23 in SW. quadrants,
raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
            Land, mts., rolling. Soil, 3rd rate, stony, gravelly...
            Palonegro, cacti. Good native bunch grass.
            S. 89°58' E., on a random line, bet. secs. 13 & 24.
40.00 Set temp. \frac{1}{4} sec. cor.
80.02 Intersect E. bdy. of Tp. at corner of secs. 13,18,19 & 24,
            whence I run,
N. 89°58' W., on a true line, bet. secs. 13 & 24.
Over rolling, broken, land, through dense palonegro.
  3.75 Wash, 30 lks. wide, course NW.
  6.00 Asc. NE. slope of N. point of mts.
16.00 Top of point, N. slope of mts., desc. NW. slope.
23.50 Foot of main slope, brs. NE. & SW., desc. grad.
40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
                the ground for \frac{1}{4} sec. cor., marked on brass cap,
               $ . 13 in N., and

S. 24 in S. half,

raise a mound of stone 2 ft.base, laft.high N. of cor.
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80.02 To cor. of secs. 23,24, 13 & 14. Land, mts., rolling. Soil, 3rd rate, stony, gravelly. Palonegro, and other brush, cacti. Good grass in valley.

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Chains.
           N. 0° 1' W., bet. secs. 13 & 14.
 Over rolling land, desc. grad.

20.00 Road, brs. E. & W., Kingman to Sandy & Signal.

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

1 S. 14 in W., and
S. 13 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
              raise a mound of earth 32 ft.base, 12 ft.high W. of cor.
 75.75 Wash, 50 lks. wide, course NW.
80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 11,12,13 & 14, marked on
              brass cap,
                               T. 21 N., R. 16 W. in N. half,
                               S. 11 in NW.,
                               S. 12 in NE.,
                               S. 13 in SE., and S. 14 in SW. quadrants,
              dig pits 18x18x12 ins. in each sec. 52 ft.dist., and
              raise a mound of earth 4 ft.base, 2 ft.high W. of cor.
           Land, rolling. Soil, 3rd rate, sandy, gravelly, loose.
           Scattering palonegro, cacti, and other brush. Good grass.
           S. 89°58' E., on a random line, bet. secs. 12 & 13.
 4J.JJ Set temp. 1 sec. cor. 79.96 Intersect E. bdy. of Tp. at cor. of secs. 7,12,13 & 18,
           whence I run,
N. 89°58' W., on a true line, bet. secs. 12 & 13.
              Over gently rolling land.
  32.50 Wash, 30 lks. wide, course NW. 39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
              the ground for \( \frac{1}{2} \) sec. cor., marked on brass cap, \( \frac{1}{2} \) S. 12 in N., and \( S. 13 \) in S. half,
               dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth 3 ft.base, 1 ft.high N. of cor.

Road, Berry Station to Frosts Ranch, brs. NW. & SE.

79.96

To cor. of secs. 11,12,13 & 14.
           Land, rolling. Soil, 3rd rate, gravelly, loose.

Sparse palonegro, cacti. Good native grass. Few mesquite.

At this cor. at noon, 1.m.t., I set off 2°47½ N. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is 35°15′ N.
           N. 0° 1' W., bet. secs. 11 & 12.
  Over gently rolling land, desc. grad.
10.10 Road, Frosts Ranch to Berry station brs. NW. & SE.
  40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
               the ground for 1 sec. cor., marked on brass cap,
                                \frac{1}{4} S. 11 in W., and
               S. 12 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
  raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor.
Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
the ground for cor. of secs. 1,2,11 & 12, marked on
               brass cap,
                                T. 21 N., R. 16 W. in N. half,
                                s. 2 in NW.,
                                S. 1 in NE.,
                                S.12 in SE., and
S.11 in SW. quadrants,
               dig pits 18x18x12 ins. in each sec. 52 ft. dist., and
               raise a mound of earth 4 ft.base, 2 ft.high W. of cor.
            Land, rolling. Soil, 3rd rate, gravelly, loose, dry.
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Sparse palonegro, cacti. Good native grass.

March 28, 1911.

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Chains. S. 89°58 E., on a random line, bet. secs. 1 & 12. 40.00 Set temp.  $\frac{1}{4}$  sec. cor. Set temp. 4 sec. cor.

8J.02 Intersect E. bdy. of Tp. at a point 2½ lks. S. of cor. of secs. 1,6,7 & 12, whence I run,

N. 89 59 W., on a true line, bet. secs. 1 & 12.

Over gently rolling land, desc. slightly.

4J.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ½ sec. cor., marked on brass cap,
½ S. 1 in N., and
S. 12 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 32 ft.base, 12 ft. high N. of cor. 8J.J2 To cor. of secs. 1,2, 11 & 12. Land, rolling.
Soil, 3rd rate, gravelly, sandy, loose, dry.
Scattering palonegro, greasewood, cacti, and other brush. Good native bunch grass in places. N.0° 1' W., bet. secs. 1 & 2. 40.00 Set temp.  $\frac{1}{4}$  sec. cor. 80.00 Intersect N. bdy. of Tp. at cor. of secs. 1,2,35 & 36, whence I run, S. J. 1 E., on a true line, bet. secs. 1 & 2. Over level valley.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for \frac{1}{4} sec. cor., marked on brass cap,  $\frac{1}{4}$  S. 2 in W., and S. 1 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 ft.base, 1 ft.high W. of cor. 80.00 To cor. of secs. 1,2,11 & 12. Land, rolling, slightly, level. Soil, 2nd & 3rd rate, sandy, gravelly, loose, dry.

Sparse undergrowth, sage brush, cacti. Good grass.

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Chains March 29, 1911.
        At 8h a.m., 1.m.t., at the Std. cor. of secs. 34 & 35,
            on the S. bdy. of the Tp.,
I set off 3°8'N. on the decl.arc, and 35°9' N. on the
            lat. arc, and determine a true meridian with the solar.
         Thence I run,
N. 0 1 W., bet. secs. 34 & 35.
Over mts. land, desc. NE. slope.
 36.00 Dim road, brs. WNW. & ESE.
38.00 Wash, 100 lks. wide, course WNW., in draw 12 chs. wide, asc.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for \frac{1}{4} sec. cor., marked on brass cap,
                           $ S. 34 in W., and S. 35 in E. half,
            raise a mound of stone 2 ft.base, l2 ft.high W. of cor.
 44.00 Asc. steep.
50.00 Spur, brs. WNW. & ESE., near W. point, desc. 68.00 Wash, 10 lks. wide, course NW., turns to N. 72.00 Same wash, course NE., asc.
 80.00 Top of rise. brs. E. & W.
         Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
            the ground for cor. of secs. 26,27,34 & 35, marked on
            brass cap,
                           T. 21 N., R. 16 W. in N. half,
                           S. 27 in NW.,
                           S. 26 in NE.,
                           S. 35 in SE., and
         S. 34 in SW. quadrants,
raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
Land, mts., broken. Soil, 3rd rate, stony, gravelly.
Palonegeo, cacti, and other brush. Fair grass in places.
         East, on a random line, bet. secs. 26 & 35.
 40.00 Set temp. \(\frac{1}{4}\) sec. cor.
80.00 Intersect N. & S. line at point 5 lks. N. of cor. of
            secs. 25,26,35 & 36, whence I run,
         N. 89°58' W., on a true line, bet. secs. 26 & 35. Over broken mts. land, desc.
  8.00 Enter wash, 30 lks. wide, from EME., runs WEW.
 20.00 Leave wash, runs NW., asc. grad. along NE. slope.
 38.00 Wash, 20 lks. wide, near head, asc. 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap, \(\frac{1}{4}\) S. 26 in N., and
                              S. 35 in S. half,
            raise a mound of stone 2 ft.hase, 12 ft. high N. of cor.
 50.85 Top of flat ridge, brs. NW. & SE., in saddle, desc. grad.
 6J.00 Head of small gulch, course WNW.
68.00 Wash, 20 lks. wide, course NW., from SW., asc.
 80.00 To cor. of secs. 26,27,34 & 35.
         Land, rolling, broken, mts.
         Soil, 3rd rate, gravelly, stony.

Sparse palonegro, cacti, and other brush. Fair grass.

At this cor. at noon, l.m.t., I set off 3 11! N. on the
            decl. arc, and observe the sun on the meridian.
            the resulting lat. is 35^{\circ} 10^{1} N.
          N. 0° 1' W., bet. secs. 26 & 27.
            Over mts., broken land, desc. grad.
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Wash, 20 lks. wide, course NNW., asc.

20.00 Top of round hill, on W. side, brs. WNW. & ESE., desc.

32.00 foot of hill, brs. NE. & SW., thence over rolling land,

32.80 Wash, 30 lks. wide, course NNE.

Same wash, 30 lks. wide, course NNW.

Same wash, 30 lks. wide, course NNW.

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Chains
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
          the ground for \frac{1}{4} sec. cor., marked on brass cap,
           $ S. 27 in W., and
S. 26 in E. half,
raise a mound of stone 2 ft.base, l2 ft.high W. of cor.
 57.80 Wash, 50 lks. wide, course NNE
74.00 Wash, 100 lks. wide, course NNW., same as above.
 80.00 Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in
          the ground for cor. of secs. 22,23,26 & 27, marked on
          brass cap,
                      T. 21 N., R. 16 W. in N. half, S. 22 in NW.,
                      S. 23 in NE.,
                      S. 26 in SE., and
         S. 27 in SW. quadrants, raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
       Land, mts., broken, rolling.
       Soil, 3rd rate, gravelly.
       Palonegro, scrub oak, cacti. Good grass in places.
       S. 89.58 E., on a random line, bet. secs. 23 & 26.
40.00 Set temp. \frac{1}{4} sec. cor.
79.98 Intersect N. & S. line at point 2 lks. S. of cor. of
       secs. 23 24,25 & 26, whence I run, N. 89 59 W., on a true line, bet. secs. 23 & 26.
   Over mts. land, along E. slope.

50 Top of ridge, brs. NNE. & SSW., desc. prec.
  4.00 Gulch, 150 ft. deep, 30 lks. wide, course NNW., asc.
  8.80 Ridge, or spur, brs. NNW. & SSE., desc.
31.00 Foot of main slope, brs. N. & S.,
Wash, 50 lks. wide, course NW.,
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
         the ground for 1 sec. cor., marked on brass cap,
                      $ S. 23 in N., and S. 26 in S. half,
         raise a mound of stone 2 ft.base, la ft.high N. of cor.
29.98 To cor. of secs. 22,23,26 & 27.
       Land, mts., rolling.
       Soil, 3rd rate, stony, gravelly.
       Scattering palonegro, scrub oak, cacti. Fair grass .
       N. 0 1 W., bet. secs. 22 & 23.
          Over rolling land, desc. grad.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
         the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap, \(\frac{1}{4}\) S. 22 in W., and
                         S. 23 in E. half,
          dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
         raise a mound of earth 3 ft. base, 1 ft. high W. of cor.
70.00 Wash, 30 lks. wide, course NT.
80.00 Set an iron post 3 ft. long, 2 ins. in diam, 24 ins. in
          the ground for cor. of secs. 14,15,22 & 23, marked on
         brass cap,
                      T. 21 N., R. 16 W. in N. half,
                      S. 15 in NW.,
                      S. 14 in NE.,
                      S. 23 in SE., and
                      S. 22 in SW. quadrants,
         raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
       Land, mts., rolling.
       Soil, 3rd rate, stony, gravelly.
       Scattering palonegro, mesquite, cacti. Good grass in
        N. à mile.
                                              March 29, 1911.
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Chains
         March 30, 1911.
         At 8h a.m., l.m.t., at the cor. of secs. 14,15,22 & 23, I set off 3°31'N. on the decl. arc, and 35°12'N. on the
            lat. arc, and determine a true meridian with the solar.
Thence I run,
S. 89°59' E., on a random line, bet. secs. 14 & 23.
40.00 Set temp. 1 sec. cor.
80.00 Intersect N. & S. line at a point 28 lks. S. of cor. of
           secs. 13,14,23 & 24, whence I run,
         West, on a true line, bet. secs. 14 & 23.

Over rolling land, through scattering palonegro.
34.50 Wash, 30 lks. wide, course NNW.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap,
                            1 S. 14 in N., and S. 23 in S. half,
            dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth 3 ft.base, 1 ft.high, N. of cor. 80.00 To cor. of secs. 14,15,22 & 23.
         Land, rolling. Soil, 3rd rate, sandy, gravelly, loose.
         Scattering palonegro, mesquite, cacti. Good grazing.
         N. 0° 1' W., bet. secs. 14 & 15.
            Over rolling land, desc. grad.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for 1 sec. cor., marked on brass cap,
                            1 S. 15 in W., and S. 14 in E. half,
             dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth 32 ft.base, 12 ft.high W. of cor. 41.15 Road, Kingman to Sandy and Signal, brs. E. & W.,
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 10,11,14 & 15, marked on
            brass cap,
                            T. 21 N., R. 16 W. in N. half, S. 10 in NW.,
                            S. 11 in NE.,
S. 14 in SE., and.
                            S. 15 in SW. quadrants,
            dig pits 18x18x12 ins. in each sec. 5½ ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W. of cor.
         Land, rolling. Soil, 3rd rate, sandy, gravelly, loose.
         Scattering palonegro, cacti, mesquite. Good grass.
         East, on a random line, bet. secs. 11 & 14.
 40.00 Set temp. 1 sec. cor.
 80.02 Intersect N. & S. line at a point 2 lks. N. of cor. of
         secs. 11,12,13 & 14, whence I run,
N. 89 59 W., on a true line, bet. secs. 11 & 14.
            Over rolling land, drains to NW.
 5.00 Wash, 50 lks. wide, course NW.
36.00 Wash, 25 lks. wide, course NNW.
40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for \frac{1}{4} sec. cor., marked on brass cap,
                             \frac{1}{4} S. 11 in N., and
            S. 14 in S. half, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 32 ft.base, 12 ft.high N. of cor
60.50 Wash, 30 lks. wide, course NNE. 80.02 To cor. of secs. 10,11,14 & 15.
         Land, rolling. Soil, 3rd rate, sandy, gravelly.
         Sparse palonegro, sage brush, cacti, mesquite. Good grass. At this cor. at noon, 1.m.t., I set off 3 36 N. on the
             decl. arc and observe the sun on the meridian. The resulting lat. is 35°13' N.
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Chains
         N. 0° 1' W., bet. secs. 10 & 11.
            Over gently rolling land, desc. grad.
36.00 Wash, 80 lks. wide, course NW.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for 1 sec cor., marked on brass cap,
                            1 S. 10 in W., and S. 11 in E. half,
            dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
            raise a mound of earth 32 ft.base, 12 ft.high W. of cor.
52.25 Wash, 30 lks. wide, course WNW.
80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 2,3,10 & 11, marked on.
            brass cap,
                           T. 21 N., R. 16 W. in N. half, S. 3 in NW.,
                            S. 2 in NE.,
S. 11 in SE., and
                            S. 10 in SW. quadrants,
          dig pits 18x18x12 ins. in each sec. 5 ft.dist., and
         raise a mound of earth 4 ft.base, 2 ft.high W. of cor.
Land, robling. Soil, 3rd rate, sandy, gravelly, loose; dry.
Sparse sage brush, cacti. Good native bunch grass.
S. 89 59 E., on a random line, bet. secs. 2 & 11.
40.00 Set temp. \( \frac{1}{2}\) sec. cor.
79.96 Intersect N. & S. line at cor. of secs. 1,2,11 & 12,
         whence I run,
N. 89.59 W., on a true line, bet. secs. 2 & 11.
Over gently rolling land, drains to NW.

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

4 S. 2 in N., and

S.ll in S. half,
            dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
           raise a mound of earth 32 ft.base, 12 ft.high N.of cor.
73.50 Road, brs. NW. & SE. 79.96 To cor. of secs. 2,3,10 & 11.
        Land, rolling.
        Soil, 3rd rate, sandy, gravelly, loose, dry.
Scattering sage brush, cacti, few mesquite, good grass.
        N. J. 1. W., on a random line, bet. secs. 2 & 3.
40.00 Set temp. 1 sec. cor.
79.98 Intersect N. bdy. of Tp. at a point 2 lks. E. of cor. of secs. 2,3,34 & 35, whence I run, S. J. 2 E., on a true line, bet. secs. 2 & 3.
           Over nearly level land.
39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
           the ground for 4 sec. cor., marked on brass cap,
           1 S. 3 in W., and
S. 2 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
           raise a mound of earth 3g ft.base, lg ft.high W. of cor.
73.90 Road, brs. NW. & SE.
79.98 To cor. of secs. 2,3,10 & 11.
        Land, rolling, level.
        Soil, 3rd rate, sandy, gravelly, loose, dry.
        Sparse sage brush, cacti, mesqyite, good native grass.
                                                                    March 30, 1911.
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C hains
           March 31, 1911.
           At 8h a.m., 1.m.t., at the Std. cor. of secs. 33 & 34,
              on the S. bdy. of the Tp.,
I set off 3.54 N. on the decl.arc, and 35.9 N. on the
           lat. arc, and determine a true meridian with the solar. Thence I run,
N. 0° 2' W., bet. secs. 33 & 34.
              Over rough, broken, mts. land, desc.
  13.00 Canyon, 80 lks. wide, course NW., asc.
  20.00 Top of sharp ridge, brs. NW. & SE., desc.
  24.00 Head of canyon, course NW., asc. 28.00 Top of ridge, brs. NW. & SE., desc.
  36.00 Enter draw, course NW.,
  39.00 Middle of draw 4 chs. wide, course NW.,
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for \frac{1}{4} sec. cor., marked on brass cap,
\frac{1}{4} S. 33 in W., and
                                   S. 34 in E. half,
              dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 ft.base, 1 ft.high W. of cor.
  44.00 Leave draw, asc.
  50.00 NW. point of ridge or spur, brs. NW. & SE., desc.
  56.25 Enter Wheeler wash, course WNW.
  60.65 Leave wash, asc.
  69.50 Wash, 20 lks. wide, course WWW.
80.00 Set an iron post 3,ft. long, 2 ins. in the ground for cor. of secs. 27,28,33 & 34, marked on
               brass cap,
                                T. 21 N., R. 16 W. in N. half,
                                s. 28 in NW.,
                                S. 27 in NE.,
S. 34 in SE., and
             S. 33 in SW. quadrants, raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
            Land, mts., very rough and broken. Soil, 3rd rate, stony. Scattering palonegro, cacti, greasewood. Faar grass.
            East, on a random line, bet. secs. 27 & 34.
   40.00 Set temp. } sec. cor.
   80.00 Intersect N. & S. line at cor. of secs. 26,27,34 & 35.
            whence I run, west, on a true line, bet. secs. 27 & 34.
               Over broken, rough land,
   13.50 Wash, la lks. wide, course NW.
  16.00 Wash, 10 lks. wide, course NW.
27.42 Wash, 20 lks. wide, course NW.
32.50 Wash, 15 lks. wide, course NE. asc.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
               the ground for 1 sec. cor., marked on brass cap,

1 S. 28 in N. and
S. 34 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
               raise a mound of earth 3 ft.base, 1 ft.high N.of cor.
  50.00 Ridge, brs. NW. & SE., desc.
  75.50 Wash, 10 lks. wide, course NW. asc. grad.
80.00 To cor. of secs. 27,28,33 & 34.
Land, mts., broken. Soil, 3rd rate, stony, gravelly.
            Scattering palonegro, cacti, sage brush. Fair grass.
            At this cor. at noon, l.m.t., I set off 3.57. N. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is 35. 10 N.
            N. J. 2' W., bet. secs. 27 & 28.
    Over heavily rolling, broken land, desc. grad.

1.15 Road, brs. WNW. & ESE.

4.00 Wash, 20 lks. wide, course NW.
   25.70 Wash, 50 lks. wide, course NW.
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Chains
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
           the ground for \frac{1}{4} sec. cor., marked on brass cap,
                         1 S. 28 in W., and
                           S. 27 in E. half,
           raise a mound of stone 2 ft.base, l2 ft.high W. of cor.
 51.50 Wash, 50 lks. wide, course NW.
 56.00 Wash, 30 lks. wide, course WNW.
80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
           the ground for cor. of secs. 21,22,27 & 28, marked on
           brass cap,
                        T. 21 N., R. 16 W. in N. half, S. 21 in NW.,
                        S. 22 in NE.,
          S. 27 in SE.; and S. 28 in SW. quadrants, raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
        Land, rolling, broken. Soil, 3rd rate, sandy, gravelly.
        Scattering palonegro, cacti, sage brush, greasewood.
      - Fair grass in draws.
         East,
East, on a random line, bet. secs. 22 & 27.
80.00 Intersect N. & S. line at cor. of secs. 22,23, 26 & 27,
          whence I run,
        West, on a true line, bet. secs. 22 & 27.

Over broken rolling land, desc. grad.
 3.50 Wash, 30 lks. wide, course NW.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
          the ground for 4 sec. cor., marked on brass cap,

4 S. 22 in N. and

S. 27 in S. half,
          dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
          raise a mound of earth 4 ft.base, 2.ft. high N. of cor.
63.50 Wash, 30 lks. wide, course NW.
80.00 To cor. of secs. 21,22, 27 & 28.
        Land, broken, rolling.
        Soil, 3rd rate, gravelly, loose.
       Scattering palonegro, cacti, sage brush. Good grass.
                                                           March 31, 1911.
         April 1, 1911.
         At 8h a.m., l.m.t., at the cor. of secs. 21,22,27 & 28,
I set off 4 18 N. on the decl. arc, and 35 11 N. on the
           lat. arc, and determine a true meridian with the solar.
       Thence I run,
N. 0° 2' W., bet. secs. 21 & 22.
         Over rolling land, desc. grad.
26.00 Draw, 2 chs. wide, course NW.
33.00 Wash, 20 lks. wide, course NW.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
        the ground for 1 sec. cor., marked on brass cap.
                        1 S. 21 in W., and
S. 22 in E. half,
          dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
         raise a mound of earth 12 ft.high, 32 ft.base, W. of cor.
44.55 Wash, 30 lks. wide, course NW.
80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
          the ground for cor. of secs. 15,16,21 & 22, marked on
          brass cap,
                       T. 21 N., R. 16 W. in N. half,
                       S. 16 in NW.,
                       S. 15 in NE.,
                       S. 22 in SE., and
          S. 21 in SW. quadrants, dig pits 18x18x12 ins. in each sec. 52 ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W. of cor.
        Land, rolling. Soil, 3rd rate, gravelly. Scattering palonegro, cacti. Good grazing.
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Chains.
 East, on a random line, bet. secs. 15 & 22.

40.00 Set temp. ½ sec. cor.

80.00 Intersect N. & S. line at cor. of secs. 14,15,22 & 23,
              whence I run,
          West, on a true line, bet. secs. 15 & 22.
             Over rolling land, descending gently, land, drains NW.
 13.80 Wash, 10 1ks. wide, course NNW.
 Wash, 20 lks. wide, course N.

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for \( \frac{1}{4} \) sec. cor., marked on brass cap, \( \frac{1}{4} \) S. IS in N. and
                                 S. 22 in S. half,
              dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 32 ft.base, 12 ft.high N.of cor.
  45.00 Head of wash, course NNW.
 58.25 Wash, 20 lks. wide, course NNW. 67.00 Wash, 20 lks. wide, course N.
  80.00 To cor. of secs. 15,16,21 & 22.
           Land, rolling, broken, Soil, 3rd rate, gravelly, loose. Scattering palonegro, sage brush. Good native grass.
           N. J. 2 W., bet. secs. 15 & 16.
  Over rolling land, desc. grad. 35.15 Main, road, Kingman, to Prescott, Sandy, and Signal,
  brs. E. & W.
40.00 Set an iron post 3 ft. long, 1 in: in diam. 20 ins. in
              the ground for 1 sec. cor., marked on brass cap,
                               \frac{1}{4} S. 16 in W., and
                                  S. 15 in E. half,
  dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 32 ft.base, 12 ft.high W. of cor. 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
              the ground for cor. of secs. 9,10,15 & 16, marked on
              brass cap,
                               T. 21 N., R. 16 W. in N. half, S. 9 in NW., S. 10 in NE.,
                               S. 15 in SE., and
              S. 16 in SW. quadrants, dig pits 18x18x12 ins. in each sec. 5½ ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W. of cor.
           Land, rolling.
           Soil, 3rd rate, sandy, gravelly, loose, dry.
           Sparse sage brush, cacti. Good native bunch grass.
  East, on a random line, bet. secs. 10 & 15.
40.00 Set temp. 4 sec. cor.
  80.04 Intersect N. & S. line at point 2 lks. N. of cor. of
  secs. 10,11,14 & 15, whence I run,
N. 89°59° W., on a true line, bet. secs. 10 & 15.
40.02 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for \(\frac{1}{4}\) sec. cor,, marked on brass cap,
              1 S. 10 in N., and
S. 15 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
              raise a mound of earth 32 ft.b se, 12 ft.high N.of cor.
  55.00 Wash, 30 lks. wide, course NNW. 80.04 To cor. of secs. 9,10,15 & 16.
           Land, rolling.
           Soil, 3rd rate, sandy, gravelly, loose, dry
           Sparse sage brush, mesquite, cacti. Good native, coarse
              bunch grass.
           At this cor. at noon, 1.m.t., I set off 4°21'N. on the
              decl. arc, and observe the sum on the meridian. The resulting lat. is 35.13 N.
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13
Chains .
          N. 0° 2' W., bet. seds. 9 & 10.
             Over gently rolling land, descending gradually.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
             the ground for 1 sec. cor., marked on brass cap,

1 S. 9 in W., and
S. 10 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 32 ft.base, 12 ft.high W.of cor. 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
              the ground for cor. of secs. 3,4,9 & 10, marked on.
             brass cap,
                               T. 21 N., R. 16 W. in N. half.
                               S. # in NW.,
                               S. 3 in NE.,
             S.1J in SE., and
S. 9 in SW. quadrants,
dig pits 18x18x12 ins. in each sec. 51 ft.dist., and
raise a mound of earth 4 ft.base, 2 ft.high W. of cor.
          Land, gently rolling.
          Soil, 3rd rate, sandy, gravelly, loose, dry.
          Sparse sage brush, cacti. few mesquite. Good native grass.
S. 89.59 E., on a random line, bet. secs. 3 & 10.
40.00 Set temp. \frac{1}{4} sec. cor.
80.02 Intersect N. & S. line at a point 3 lks. N. of cor. of
          secs. 2,3,10 & 11, whence I run,
N. 89°58 W. on a true line, bet. secs. 3 & 10.
             Over gently rolling land, drsins to NW.
11.50 Wash, 30 lks. wide, course NNW.
31.25 Wash, 30 lks. wide, course NW.
40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
             the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4} S. 3 in N., and
                                  S.10 in S. half,
            dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth 31 ft.base, 12 ft.high N.of cor. To cor. of secs. 3, 4,9 & 10.

Land, rolling. Soil, 3rd rate, sandy, gravelly, loose.

Sparse sage brush, cacti, greasewood. Good bunch grass.
N. 0° 3' W., on a random line, bet. secs. 3 & 4.
40.00 Set temp. 4 sec. cor.
79.96 Intersect N. bdy. of Tp. at point 2 lks. W. of cor. of secs. 3,4,33 & 34, whence I run, S. 0. 2 B. on a random line, bet. secs. 3 & 4.
Over gently rolling land, asc. slightly. land drains NW. 39.96 Set an iron post 3 ft. lonh, 1 in. in diam. 26 ins. in
             the ground for \(\frac{1}{4}\) sed. cor., marked on brass cap,
1 S. 4 in W., and
S. 3 in E. half,
dig pits 18x18x12 ins. M. & S. of cor. 3 ft. dist., and
raise a mound of earth 3 ft.base, 1 ft.high W. of cor.
79.96 To cor. of secs. 3,4,9 & 10.
          Land, rolling.
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Soil, 3rd rate, sandy, gravelly, loose, dry.
Sparse undergrowth, few mesquite, cacti. Good native grass.

April 1, 1911.

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Chains
         April 5, 1911.
         At 8h a.m., 1.m.t., at the Std. cor. of secs. 32 & 33,
            on the S. bdy. of the Tp.,
I set off 5°50'N. on the decl.arc, and 35°9½'N. on the
            lat. arc,, and determine a true meridian with the solar.
         Thence I run,
N. 0 3 W., bet. secs. 32 & 33.
            Over rolling, broken land, desc. grad.
  6.00 Gulch, 50 lks. wide, course NW., asc.
 13.00 Ridge, brs. NW. & SE., desc. NE. slope, gradually.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
             the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4} S. 32 in W., and
                               S. 33 in E. half,
             raise a mound of stone 2 ft.base, 12 ft.high W. of cor.
 47.00 Wash, 50 lks, wide, course NW., asc.
65.00 Top of ridge, brs. NW. & SE., desc.
74.00 Wash, course NW., 100 lks. wide, asc.
80.00 Set an iron post 3 ft. long, 2 inss in diam. 24 ins. in
             the ground for cor. of secs. 28,29,32 & 33, marked on
             brass cap,
                            T. 21 N., R. 16 W. in N. half, S. 29 in NW.,
                            S. 28 in NE.,
                            S. 33 in SE., and
                            S. 32 in SW. quadrants,
          raise a mound of stone 2 ft.base, 11 ft.high W. of cor. Land, broken, heavily rolling. Soil, 3rd rate, gravelly.
          Scattering palonegro, cacti, and other brush. Fair grass.
          East, on a random line, bet. secs. 28 & 33.
 40.00 Set temp. 4 sec. cor.

79.98 Intersect N. & S. line at a point 2 lks. S. of cor. of
          secs. 27,28,33 & 34, whence I run,
S. 89.59 W., on a true line, bet. secs. 28 & 33.
             Over heavily rolling, broken land, drains to NW., desc.
 25.00 Old road, brs. NE. & SW. 39.99 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
             the ground for 4 sec. cor., marked on brass cap,
                            1 S. 28 in N., and
                               S. 33 in S. half,
             raise a mound of stone 2 ft.base, 12 ft.high N. of cor.
 70.50 Wash, 50 lks. wide, course WNW.
 77.00 Road, brs. WNW. & ESE.
 79.98 To cor. of secs. 28,29,32 & 33.
          Land, rolling, broken. Soil, 3rd rate, gravelly. Scattering palonegro, cacti, mesquite. Fair grass.
          N. 0° 3' W., bet. secs. 28 & 29.
              Over broken, heavily rolling land, desc. grad.
 1.20 Road, brs. WNW. & ESE.
12.00 Wash, 50 lks. wide, course WNW., asc. grad.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
             the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap,
\(\frac{1}{4}\) S. 29 in W., and
S. 28 in E. half,
raise a mound of stone 2 ft.base, \(\frac{1}{2}\) ft.high W. of cor.
          Desc. grad., from cor.
 64.45 Road, brs. NW. & SE.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
             the ground for cor. of secs. 20,21,28 & 29, marked on brass cap, T. 21 N., R. 16 W. in N. half, S. 20 in NW.,
                             S. 21 in NE.,
             S. 28 in SE., and
S. 29 in SW. quadrants,
raise a mound of stone 2 ft.base, 1 ft. high W. of cor.
          Land, rolling, broken. Soil, 3rd rate, gravelly, loose.
          Scattering palonegro, cacti. Good grass.
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Chains
            N. 89°59' E., on a random line, bet. secs. 21 & 28.
 Set temp. 4 sec. cor.

79.92 Intersect N. & S. line at a point 2½ lks. N. of cor. of secs. 21,22,27 & 28, whence I run,

West, on a true line, bet. secs. 21 & 28.

Over rolling land, desc. grad.
 17.50 Wash, 50 lks. wide, course NW.
 39.96 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
                the ground for 1 sec. cor., marked on brass cap,
               $\frac{1}{2}$ S. 21 in N., and
S. 28 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth 3\frac{1}{2}$ ft.base, 1\frac{1}{2}$ ft.high N. of cor.
 63.00 Wash, 50 lks. wide, course NW. 79.92 To cor. of secs. 20,21,28 & 29.
            Land, rolling.
            Soil, 3rd rate, sandy, gravelly, loose, dry.
Scattering palonegro, cacti, sage brush. Good bunch grass.
At this cor. at noon, l.m.t., I set off 5 53 N. on the
              decl. arc, and observe the sun on the meridian. The resulting lat. is 35°11' N.
            N. 0° 3' W., bet. secs. 20 & 21.
               Over rolling land, desc. grad.
 8.70 Wash, 20 lks. wide, course NW.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
               the ground for 1 sec. cor., marked on brass cap,
                                    $ S. 20 in W., and
                                       S. 21 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor. 80.00 Wash, 20 lks. wide, course NW. Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 16,17,20 & 21, marked on
               brass cap, T. 21 N., R. 16 W. in N. half,
S. 17 in NW.,
S. 16 in NE.,
                                    S. 21 in SE., and
                                    S. 20 in SW. quadrants,
           dig pits 18x18x12 ins. in each sec. 5½ ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W. of cor. Land, rolling. Soil, 3rd rate, gravelly, dry.

Scattering sage brush, greasewood, cacti. Good grass.
                                                                                 April 5.
           April 6, 1911.
           At 8h a.m., 1.m.t, I set off 6°12'S. on the decl.arc, and 35°12'N. on the lat. arc, and determine a true meridian
               with the solar at the cor. of secs. 16,17,20 & 21,
               Thence I run,
East, on a random line, bet. secs. 16 & 21.

40.00 Set temp. ½ sec. cor.

79.96 Intersect N. & S. line at a point 3 lks. N. of cor. of
           secs. 15,16,21 & 22, whence I run, N. 89 59 W., on a true line bet. secs. 16 & 21.
Over gently rolling land, desc. grad.
13.70 Wash, 20 lks. wide, course NNW.
18.00 Wash, 20 lks. wide, in draw 6 chs. wide, course N.
39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
              the ground for 4 sec. cor., marked on brass cap,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 32 ft.base, 12 ft.high W. of cor. 79.96 To cor. of secs. 16,17,20 & 21.
           Land, rolling.
           Soil, 3rd rate, sandy, gravelly, loose, dry. Sparse palonegro, cacti, greasewood, sage brush.
             Good bunch grass.
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Chains
          N. 0° 3' W., bet. secs. 16 & 17.
             Over gently rolling land, desc. grad.
 8.90 Main road, brs. WSW. & ENE.
19.00 Old road, brs. WSW. & ENE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
             the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap, \(\frac{1}{4}\) S. 17 in W., and \(S. 16\) in E. half,
             dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor. 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 8,9,16 & 17, marked on
             brass cap,
                              T. 21 N., R. 16 W. in N. half,
                              S. 8 in NW.,
                              S. 9 in NE.,
            S.16 in SE., and
S.17 in SW. quadrants,
dig pits 18x18x12 ins. in each sec. 52 ft. dist., and
raise a mound of earth 4 ft.base, 2 ft. high W. of cor.
          Land, rolling. Soil, 3rd rate, sandy, gravelly, fertile.
 S. 89.59 E., on a random line, bet. secs. 9 & 16.
40.00 Set temp. \( \frac{1}{4} \) sec. cor.
 80.00 Intersect N. & S. line at cor. of secs. 9,10, 15 & 16,
          whence I run, N. 89°59' W., on a true line, bet. secs. 9 & 16.
 Over rolling land, drains to N., desc. slightly.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
             the ground for \frac{1}{4} sec. cor., marked on brass cap,
             1 S. 9 in N., and
S.16 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth 31 ft.base, 12 ft.high N. of cor.
 80.00 To cor. of secs. 8,9,16 & 17.
          Land, rolling.
           Soil, 3rd rate, sandy, gravelly, fertile, loose.
          N. 0° 3' W., bet. secs. 8 & 9.
Jver gently rolling valley, desc. slightly.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
             the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap, \(\frac{1}{2}\) S. 8 in W., and
                                 S. 9 in E. half,
                                 dig pits 18x18x12 ins. N. & S. of cor. 3 ft.
              dist. & raise a mound of earth 3 ft.base, 1 ft.high,
              W. of cor.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
              the ground for cor. of secs. 4,5,8 & 9, marked on
              brass cap,
                              T. 21 N., R. 16 W. in N. half,
                              S. 5 in NW.,
                               S. 4 in NE.,
                               S. 9 in SE., and
            S. 8 in SW. quadrants, dig pits 18x18x12 ins. in each sec. 52 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high W. of cer.
           Land, rolling.
           Soil, 2nd & 3rd rate, loose, dry, fertile, sandy.
           Sparse sage brush, cacti. Good native bunch grass. At this cor. at noon, 1.m.t., I set off 6.16 N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35.14 N.
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April 6, 1911.

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Chains.
          S. 89°59' E., on a random line, bet. secs. 4 & 9.
 40.00 Set temp. \(\frac{1}{4}\) sec. cor.
 79.96 Intersect N. & S. line at cor. of secs. 3,4,9 & 10,
          whence I run,
N. 89 59 W., on a true line, bet. secs. 4 & 9.
Over gently undulating valley, drains to NNW.
 39.98 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
             the ground for 1 sec. cor., marked on brass cap,
             4 S. 4 in N., and
S. 9 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
             raise a mound of earth 32 ft.base, 12 ft.high W. of cor.
79.96 To cor. of secs. 4,5,8 & 9.
          Land, rolling,
Soil, 3rd rate, sandy, gravelly, loose, fertile.
          N. 0° 3' W., on a random line, bet. secs. 4 & 5.
40.00 Set temp. \(\frac{1}{4}\) sec. cor.

79.94 Intersect N. bdy. of Tp. at cor. of secs. 4,5,32 & 33,
          whence I run,
S. 0 3 5., on a true line, bet. secs. 4 & 5.
Over gently undulating plain.
39.94 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for \frac{1}{4} sec. cor., marked on brass cap,

\frac{1}{4} S. 5 in W., and

S. 4 in E. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and

raise a mound of earth 3\frac{1}{2} ft.base, 1\frac{1}{2} ft.high W. of cor.
44.00 Road, brs. NE. & SW.
44.10 Telegraph line, brs. NE. & SW.
45.46 Centre of single track of Atchison, Topeka & Santa Fe R.R., brs. N. 38 16 E. & S. 38 16 W.
47.41 Telegraph line, brs. NE. & SW.
79.94 To cor. of secs. 4,5,8 & 9.

Land, rolling, gently undulating.

Soil, 3rd rate, loose, sandy, loam, some gravel, fertile Scattering sage brush, cacti. Good native grass.
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Chains.
        April 7, 1911.
        At 8h a.m., l.m.t., at the std. cor. of secs. 31 & 32,
           on the S. bdy. of the Tp.,
I set off 6.45 %. on the decl.arc, and 35 9 N. on the
           lat. arc, and determine a true meridian with the solar.
           Thence I run,
        N. J. 3' W., bet. secs. 31 & 32.
  Over rough, broken, land, desc. 7.00 Gulch, 150 lks. wide, course NW., asc.
 13.00 Ridge, brs. NW. & SE., asc.
 39.75 Wash, 50 lks. wide, course NW., asc.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
         the ground for 4 sec. cor., marked on brass cap,
                          1 S. 31 in W., and
 S. 32 in E. half,
raise a mound of stone 2 ft.base, la ft.high W. of cor.
44.00 Top of flat mesa ridge, brs. NW. & SE.
 54.00 Desc. along ENE. slope.
80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
            the ground for cor. of secs. 29,30,31 & 32, marked on
            brass cap,
                         T. 21 N., R. 16 W. in N. half, S. 30 in NW., S. 29 in NE.,
                          S. 32 in SE., and
         S. 31 in SW. quadrants,
raise a mound of stone 2 ft.base, 1; ft.high W. of cor.
Land, rough, rolling, broken. Soil, 3rd rate, stony.
         Scattering palonegro, cacti, greasewood. Fair grass.
         East, on a random line, bet. secs. 29 & 32.
 40.00 Set temp. \frac{1}{4} sec. cor.
 79.96 Intersect N. & S. Line at cor. of secs. 28,29,32 & 33,
            whence I run,
         West, on a true line, bet. secs. 29 & 32.
            Over mts., broken land, desc.
 17.00 Wash, 50 lks. wide, course WNW.
 31.00 Wash, 50 lks. wide, course NW., asc. NE. slope. 39.98 Top of mesa, brs. NW. & SE.
         Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for \frac{1}{4} sec. cor., marked on brass cap,
                          1 S. 29 in N., and
                             S. 32 in S. half,
            raise a mound of stone 2 ft.base, la ft.high N. of cor.
 51.00 Desc. steep SW. slope, leave mesa, brs. NW. & SE.
 78.00 Gulch, 150 lks. wide, course NW., asc.
 79.96 To cor. of secs. 29,30,31 & 32.
Land, rough, broken, mts. Soil, 3rd rate, stony.
          Scattering palonegro, cacti, greasewood. Fair grass on mesa.
          West, bet. secs. 30 & 31.
 Jver mts., broken land, asc.
3.00 Top of mesa, brs. NW. & SSE.
30.00 Desc., leave mesa, brs. NW. & SE.
  37.00 Gulch, 50 lks. wide, course NW. asc.
  40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for \frac{1}{4} sec. cor., marked on brass cap, \frac{1}{4} S. 30 in N., and
                             S. 31 in S. half,
            raise a mound of stone 2 ft.base, 12 ft.high N. of cor.
 45.00 Top of spur, brs. NW. & SE., desc. near point. 50.00 Canyon, 150 lks. wide, course NNW., asc. 56.00 Top of mesa ridge, brs. NW. & SE.,
  69.29 W.rim of mesa, brs. NW. & SE., desc. steep, stony SW.slope. 80.00 Foot of main slope, brs. NNW. & SSE., desc. grad.
  99.00 Canyon, 150 lks. wide, course NW., asc. steep.
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Chains. 109.00 Ridge, brs. NW. & SE., desc.

122.00 Canyon, 100 lks. wide, course NW.,asc.

125.00 Top of E. rim of mesa, brs. NW. & SE.

128.80 Intersect East bdy. of T. 21 N., R. 17 W., at a point whence the cor. of secs. 25 & 36, on said bdy., brs. N. 0 21 W., 24.22 chs. dist., as re-established by me and heretofore described. At point of intersection, I Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for closing cor. of secs. 30 & 31, marked on brass cap, C.C., E. of centre, T. 21 N. in N., S. 25, S. 36, R. 17 W., in W. half, and S. 30 in NE., and S. 31, R. 16 W. in SE. quadrants, raise a mound of stone 2 ft. base, la ft. high #. of cor. Land, rough, broken, mts. Soil, 3rd rate, stony.

Scattering palonegro, greasewood, cacti. Fair grass. At this cor. at noon, 1.m.t., I set off 6 38 N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35°10½' N.

N. 0° 3' W., bet. secs. 29 & 30. Over rough, broken mts., land, desc. 5.10 Gulch, 50 lks. wide, course NW., asc. 25.00 Foot of bluff, brs. NW. & SE., asc. prec. 26.00 Top of bluff, brs. NW. & SE. asc. grad. 30.00 Top of NW. point of mesa ridge, brs. NW. & SE., desc. 35.50 Road, brs. NW. & SE.

As cor. point for 1 sec. cor. will fall in wash, at

39.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap, W.C.,S. of centre. S. 29 in SE., and S. 30 in SW. quadrants, and raise a mound of stone 2 ft.base, 12 ft.high W. of cor. 40.00 Wash, 60 lks. wide, course NW., asc. 49.75 Foot of steep slope, brs. NW. & SE., asc. steep.

60.00 Top of ridge, brs. NE. & SW., desc.
80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for cor. of secs. 19,20,29 & 30, marked on brass cap,

T. 21 N., R. 16 W. in N. half,

S. 19 in NW.,

S. 20 in NE.,

S. 29 in SE., and S. 30 in SW. quadrants,

raise a mound of stone 2 ft.base, la ft.high W. of cor. Land, rough, broken, mts. Soil, 3rd rate, stony, gravelly.
Scattering palonegro, scrub oak, cacti, greasewood, sage brush, mesquite, tesseta. Good native grass on mesas.

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Chains.
         East, on a random line, bet. secs. 20 & 29.
 40.00 Set temp. 1 sec. cor.
80.00 Intersect N. & S. line atta point 2 lks. S. of cor. of
           secs. 20,21,28 & 29, whence I run,
        S. 89 59 W., on a true line, bet. secs. 20 & 29.
 Over broken, rolling land. drains to NW. 33.00 Road, brs. NW. & SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
          the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap, \(\frac{1}{4}\) S. 20 in N., and
                           8. 29 in S. half,
           raise a mound of stone 2 ft.base, 12 ft.high N. of cor.
        Enter rough maiapais hills.
 54.80 Gulch, 50 lks. wide, course NW., asc. along N. slope of
           malpais hills.
 66.00 Top of N. side of hill, desc. N
80.00 To cor. of secs. 19,20,29 & 30.
                                             NW. slope.
 80.00
         Land, rough, broken, mts.
         Soil, 3rd rate, stony, gravelly.
        Scattering plaonegro, sacti, greasewoood. Fair grazing.
         West, bet. secs. 19 & 30.
           Over rough, rolling hills, desc.
 37.00 Gulch, 50 lks. wide, course NW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
           the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap,
                        1 S. 19 in N., and S. 3) in S. half,
           raise a mound of stone 2 ft. base, 12 ft. high N.of.cor.
 44.50 Gulch, 50 lks. wide, course NNW.

asc. NE. slope of hill.

67.39 Top of N. side of hill, desc. NW. slope.
 85.00 Foot of main slope, brs. NE. & SW., desc. grad.
 90.70 NE. cor. of slaughter house fence, brs. S. 18 1ks. dist.
            fence runs S. & W. from cor.
 94.00 Slaughter house of Ira George brs. S. about 8 chs. dist.
95.75 Road, brs. WSW. & EME.
102.00 Same road, brs. WNW. & ESE.
129.25 Intersect East bdy. of T. 21 N., R. 17 W. at a point whence the cor. of secs. 24 & 25 on said bdy., as
           re-established by me and heretofore described,
           brs. N. 1°W., 23.50 chs. dist., At the point of intersection, I
         Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
           the ground for closing cor. of secs. 19 & 30, marked on
           brass cap,
                         CC. on S. of centre,
T. 21 N. in N.,
                         S. 24, S. 25, Ř. 17 W. in W. half,
                         S. 19 in NE., and
                         S. 30, R. 16 W. in SE. quadrants,
           raise a mound of stone 3 ft.base, 2 ft.high E. of cor.
         Land, rough, mts., rolling.
         Soil, 3rd rate, stony, gravelly, dry.
         Scattering palonegro, cacti, mesquite, tesseta, greasewood.
         Sparse grass.
                                                            April 7,1911.
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Chains
           April 8, 1911.
           At 7h a.m., 1.m.t., at the cor. of secs. 19,20,29 & 30, I set off 6°572 N. on the decl.arc, and 35°11 N. on the
           lat. arc, and determine a true meridian with the solar.
Thence I run,
N. 0° 3' W., bet. secs. 19 & 20.
              Over broken, rolling land, desc.
   17.50 Wash, 50 lks. wide, course W., asc. grad.
  28.00 Top of rise, brs. E. & W., road, brs. NE. & SW., desc.grad. 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
              the ground for 1 sec. cor., marked on brass cap.
                             \frac{1}{4} S. 19 in W., and
                                S. 20 in E. half,
              dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
              raise a mound of earth 32 ft.base, 12 ft.high W. of cor.
  Desc. grad., from cor., smooth, open land.
80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
              the ground for cor. of secs. 17,18,19 & 20, marked on
              brass cap,
                             T. 21 N., R. 16 W. in N. half, S. 18 in NW.,
                             S. 17 in NE.,
                             S. 20 in SE., and
             S. 19 in SW. quadratns, dig pits 18x18x12 ins. in each sec. 5½ ft.dist., and
             raise a mound of earth 4 ft.base, 2 ft.high W. of cor.
           Land, braken, rolling.
           Soil, 3rd rate, stony, gravelly.
           Sdattering greasewood, tesseta, cacti. Fair grass.
          N. 89°59 E., on a random line, bet. secs. 17 & 2J.
  40.00 Set temp. \frac{1}{4} sec. cor.
  79.98 Intersect N. & S. line at a point 2 lks. N. of cor. of
          secs. 16,17,20 & 21, whence I run, West, on a true line, bet. secs. 17 & 20. Over rolling land, drains to NW.
   8.70 Wash, 20 lks. wide, course NW.
  15.90 Road, brs. WSW. & ENE.
  39.99 Set an iron post 3 ft. long l in. in diam. 26 ins. in the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap,
                             1 S. 17 in N., and
                               S. 20 in S. half,
             dig pits 18x18x12 ins. E. & W. of cor. 3 ft.dist., and
  raise a mound of earth 31 ft.base, 12 ft.high N. of cor. 79.98 To cor. of secs. 17,18,19 & 20.
          Land, rolling.
          Soil, 3rd rate, gravelly, sandy.
          Scattering greasewood, cacti. Good native grass.
          West, bet. secs. 18 & 19.
             Over rolling vailey:
          Set an iron post 3 ft. long, 1 in. in diam. 24 ins. in
  40.00
             the ground for \frac{1}{4} sec. cor., marked on brass cap,
             $\frac{1}{4}$ S. 18 in N., and
S. 19 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
             raise a mound of earth 32 ft.base, 12 ft.high N. of cor.
77.00 Road, brs. NE. & SW.

79.76 Intersect centre line of Atchison, Topeka & Santa Fe R.R.,
on curve, about 4°, to N. & W., brs. NE30° E. & S.30°W.

1.00.00 Leave valley, brs. N. & S., asc. steep SE. slope.

1.29.75 Intersect East bdy. of T. 21 N., R. 17 W. at a point
             whence cor. of secs. 13 & 24 on said bdy. brs. N. 0 29 W. 25.75 chs. dist., as re-established
             by me and heretofore described.
             At the point of intersection, I
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Subdivision of T. 21 N., R. 16 W.
Chains.
           Set an iron post 3 ft. long, 2 ins. in diam. To ins. in the ground, on bed-rock, in mound of stone, for closing cor. of secs. 18 & 19, marked on brass cap,
                                    C.C., E. of centre,
T. 21 N., in N., and
S. 13, S. 24, R. 17 W. in W. half,
S. 18 in NE., and
S. 19, R. 16 W. in SE. quadrants,
               raise a mound of stone 2 ft. base, 12 ft. high T. of cor.
           Land, rolling, mts.
           Soil, 3rd rate, stony, gravelly.
Scattering greasewood, tesseta, cacti. Fair native grass.
           N. 0° 3' W., bet. secs. 17 & 18.
               Over gently rolling valley, desc. grad.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for \( \frac{1}{2} \) sec. cor., marked on brass cap, \( \frac{1}{2} \) S. 18 in W., and
                                      S. 17 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 ft.base, 1 ft.high W. of cor. 80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
                the ground for cor. of secs. 7,8,17 & 18, marked on
               brass cap,
                                   T. 21 N., R. 16 W. in N. half,
                                   S. 7 in NW.,
S. 8 in NE.,
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S. 17 in SE., and S. 18 in SW. quadrants, dig pits 18x18x12 ins. in each sec. 5 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high W. of cor. Land, rolling. Soil, 3rd rate, sandy, gravelly. Sparse greasewood, cacti. Good native grass.

At this cor. at moon, 1.m.t., I set off 7. 1 N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 35 13 N.

East, on a random line, bet. secs. 8 & 17. Set temp. \(\frac{1}{4}\) sec. cor.

8).02

Intersect N. & S. line at a point 2\(\frac{1}{2}\) lks. N. of cor. of secs. 8,9,16 & 17, whence I run,

N. 89\(^59^5\) W., on a true line, bet. secs. 8 & 17. Over gently undulating valley, drains to NNW.
40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S. 8 in N., and S. 17 in S. half, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 32 ft.base, 12 ft.high N. of cor. 80.02 To cor. of secs. 7,8,17 & 18. Land, gently rolling. Soil, 3rd rate, sandy, gravelly, loose, dry. Sparse greasewood, mesquite, cacti. Good native grass.

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Chaims
             West, bet. secs. 7 & 18.
  Over gently undulating plain, desc. slightly.
12.18 Centre of Atchison, Topeka & Santa Fe Railroad,
brs. N. 40°30' E. & S. 40°30' W.
   13.75 Road, parallel to R. R. brs. NE. & SW.
  40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
                 the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap, \(\frac{1}{4}\) S. 7 in N., and
                                        S.18 in S. half,
                 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
                 raise a mound of earth 3 ft.base, 1 ft.high N. of cor.
From cor., asc. slightly, through sparse greasewood.

129.80 Intersect East bdy. of T. 21 N., R. 17 W. at a point whence, cor. of secs. 12 & 13, on said bdy. brs. N. 0.17 W. 25.27 chs. dist., as re-established
                 by me and heretofore described.
             At the point of intersection, I
Set an iron post 3 ft. long 2 ins. in diam. 24 ins. in
the ground for closing cor. of secs. 7 & 18, marked on
                 brass cap,
                C.C., E. of centre,
T. 21 N., in N., and
S.12, S. 13, R. 17 W. in W. half,
S. 7, in NE., and
S.18, R. 16 W. in SE. quadrants,
raise a mound of stone covered with earth 4 ft.base, 2
                 ft. high E. of cor.
             Land, rolling.
Soil, 3rd rate, sandy, gravelly, fertile.
Sparse greasewood, cacti, mesquite. Good native grass.
             N. J. 3' W., bet. secs. 7 & 8.
  Over rolling land, desc. grad.

14.28 Centre of A. T. & S. F. R.R., brs. S.40g W. & N.40g E.
mile post 513 brs. S. 40 30 W. 53 lks. dist.
  16.00 Road, brs. NE. & SW., parallel to R.R.
  21.00 Asc.
  24.65 Top of hill, brs. E. & W., desc. 28.00 Foot, brs. E. & W., desc. grad.
  40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
                the ground for \frac{1}{4} sec. cor., marked on brass cap,

\frac{1}{4} S. 7 in W., and

S. 8 in E. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and

raise a mound of earth 3\frac{1}{2} ft.base, 1\frac{1}{2} ft.high W. of cor.
  80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
                the ground for cor. of secs. 5,6,7 & 8, marked on
                brass cap,
                                    T. 21 N., R. 16 W. in N. half.
                                    S. 6 in NW.,
                                    S. 5 in NE.,
                S. 8 in SE., and
S. 7 in SW. quadrants,
dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and
raise a mound of earth 4 ft.base, 2 ft.high W. of cor.
            Land, rolling.
            Soil, 3rd rate, sandy, gravelly, loose, fertile in places. Scattering greasewood, cacti, Good native grass in places.
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Chains.
         S. 89°59' E., on a random line, bet. secs. 5 & 8.
40.00 Set temp. 1 sec. cor.
80.02 Intersect N. & S. line at cor. of secs. 4,5,8 & 9,
         whence I run,
N. 89 59 T., on a true line, bet. secs. 5 & 8.
         Over gentl rolling land, desc. grad. Centre of A. T. & S.F. R.R., brs. N.38*14 E.& S.38*14 W.
27.36
28.60 Road, brs. NE. & SW.
40.01 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
            the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap,
                            1 S. 5 in N., and
S. 8 in S. half,
            dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
            raise a mound of earth 32 ft.base, 12 ft.high N.of cor.
80.02 To cor. of secs. 5,6,7 & 8.
         Land, rolling.
         Soil, 3rd rate, sandy, gravelly.
         Sparse greasewood, cacti. Good native grass.
         West, bet. secs. 6 & 7.
Over gently undulating valley or plain, desc. grad. 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
           the ground for 4 sec. cor., marked on brass cap,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 32 ft.base, 12 ft.high N.of cor. 129.98 Intersect East bdy. of T. 21 N., R. 17 W. at a point
         whence the cor. of secs. 1 & 12, on said bdy. brs. N. 0 2 W., 25.25 chs. dist., as re-established
            by me, and heretofore described.
         At the point of intersection, I Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in
            the ground for closing cor. of secs. 6 & 7, marked on
            brass cap, .
                            C.C., E. of centre,
T. 21 N., in N., and
S.1, S. 12, R. 17 W. in W. half,
                            S. 6 in NE., and
            S. 7, R. 16 W. in SE. quadrants, dig pits 24x18x12 ins. crosswise on each line, N. & S. 3 ft. and E. of cor. 7 ft. dist., and raise a mound of earth 4 ft.base, 2 ft.high E. of cor.
         Land, rolling.
         Soil, 2nd & 3rd rate, sandy, gravelly, loose, fertile.
            drains to N.
```

Sparse greasewodd, cacti. Good native grass in places.

Chains

N. J. J. W., on a random line, bet. secs. 5 & 6.

Set temp. ½ sec. cor.

Intersect N. bdy. of Tp. at a point 2½ lks. W. of cor. of secs. 5,6,31 & 32, whence I run,

S. J. E., on a true line, bet. secs. 5 & 6.

Over gently undulating plain. asc. slightly,

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

½ S. 6 in W., and

S. 5 in E. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor.

79.92

To cor. of secs. 5,6,7 & 8.

Land, rolling.

Soil, 3rd rate, sandy, loose, fertile.

Sparse greasewood, cacti. Good grass in places.

April 8, 1911.

### General Description.

T. 21 N., R. 16 W. is rough and mts. in the SE. part, broken by canyon, and heavily rolling in the SW. part, and smooth, or gently rolling, or undulating in the N.half. There is no timber or water in the Tp.

The soil in the SE. & SW. portions is stony or gravelly, and generally worthless, except for grazing.

In the SE. portion there is considerable cedar and pinon in places.

There is considerable good land in the N. half of the Tp. which would produce well, if irrigated

The soil is a fertile, loose, sandy loam, with some gravel, and a little clay in places.

There are no settlers in the Tp., the land being now used for grazing purposes for sheep and cattle.

Jesse Bledright
U. S. Surveyor.

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## APPROVAL.

The foregoing field notes of the su		Never General,  March 75, 1912  1 2/ 71, 8/6 W.
executed by	corrections and explanations made	1910, having been the said field notes, and the U. S. Surveyor General.