BOOK "N"

BOOK 2640

# FIELD NOTES

OF THE SURVEY OF THE

Ho	ORTH, FAST and WEST BOUNDARIES
	AND COMPLETION OF
	SOUTH BOUNDARY OF
70	WNSHIPNº 10 NORTH, RANGE Nº 14 WEST
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· · · · · · · · · · · · · · · · · · ·	
$\epsilon$	of the Gila and Salt River Base and Meridian,
In the State of	fARIZONA
	EXECUTED BY
	SIDNEY E. BLOUT
·	
In the capacit	ty of U.S. Surveyor, under instructions dated M3429, 1912,
	e United States Surveyor General to govern surveys included in
•	, which were approved by the Commissioner of the General Land
	une 20 , 1914, pursuant to authority contained in the Act of
	d June 23, 1913
•	
	Survey commenced $U/y$ 25 , 1913 Survey completed $August$ /2 , 1913
,	Survey completed $August$ 12. 1913.

BCOK 2640

# INDEX DIAGRAM.

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Completion of S. bary of T. 10 N., R 14 W.
Chains.
           Survey commenced July 25,1913, and executed with a Young
              and Sons light mountain transit No.10 with a Smith Solar
             attachment. The horizontal limb being 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 the latitude and declination arcs.
          I examine the adjustments of the transit and find them to
              be correct, and from recent tests of the solar apparatus
            by comparing its indications, resulting from selar observations made during a.m., and p.m. hours, with a meridian established by observation on Polaris, I know
             that the instrument is in satisfactory adjustment.
          All measurements were made with a 5.00 ch.steel tape, with
          clinometer for determining the slope angles.

I begin at the cor. of secs. 2, 3, 34, and 35 on S. bdry. of Tp.

which is an iron post, 3, ins. in diam., 12 ins. above ground,
               marked and witnessed as described by the surveyor
          general., latitude 34°09/34"N., longitude 113°41/47"W.
The magnetic bearing of the meridian at 8hoa. mlmtis N. 14°32
          W.; the angle thus determined gives the mag.decl 14°32'E. July 25,195At 906 a., m., 1.m.t. I set off 34909 N. on the latere, 19°43'N. on the decl. arc and determine a
                 meridian with the solar of the above described cor-
          Thence I run,
          West, bet.secs.3 and 34,... Descend NW. slope, over broken, stony, hilly land, through
            , scuttering palo verde timber and greasewood brush
              undergrowth, 3 to 5 ft.high.
         Dry rocky ravine, 10 lks.wide, course NE., asc.ridge.
Top of ridge, bears NE. and SW., desc.
Dry rocky ravine, 20 lks.wide, 15 ft.deep, course NE., ascend
   1.00
   4.10
               stony ridge.
 39.25 Top of ridge, bears NE. and SW., desc.
 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 34 in N. half and S 3 in S. half. No trees suitable for bearing
              trees available. Raise a mound of stone 2 ft. base, l ft
              high N. of cor., Pits impracticable.
         Dry ravine, 15 lks.wide, course NE., ascend ridge.
          Top of ridge, bears NE. and SW., desc.
 61.30 Dry ravine, 10 lks. wide, course NE., ascend ridge.
 70.80 Top of ridge, bears NE. and SW., desc.
 79.90 pry ravine, 15 lks. wide, course NW., asc.
 80.00 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., marked on brass cap, T 10 N., in N.T 9 N., in S. and R 14 W. in W. half,
                S 33 in NW., S 34 in NE., S 3 in SE. and S 4 in SW.
              quadrant.
          Raise a mound of stone, 2 ft.base, lt ft.high, W. of cor. No trees suitable for bearing trees available. Pits
                impracticable.
             Land, broken and hilly; ridges, light, poor, gravelly loam,
              2 to 6 ins.deep, on decomposing, limestone shales.very
              little vegetation other than greasewood brush. Timber,
             scattering palo verde.
          Note: at this cor. I set off 19°41'N. on the decl. arc and at
                 noon observe the sun on the meridian and obtain a
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reading of 34910 N. on the lat.arc, which is a little higher than the calculated latitude of this place.

West, bet. secs. 4 and 33,

Over broken, stony, hilly land, through scattering palo verde timber and greasewood brush undergrowth, 3 to 5 ft. high.

<sup>5.40</sup> Dry ravine, 30 lks.wide, course NW., ascend ridge.

<sup>9.80</sup> Top of ridge, bears NW. and SE., desc.

<sup>13.20</sup> Dry ravine, 50 lks.wide, course NE., asc.

<sup>23.00</sup> Top of ridge, bears NE., and SW., desc. 27.60 Dry ravine, 15 lks.wide, course NE., ascend ridge.

Completion of South.bdry. T 10 N., R.14 W. Chains. 34.80 Top of ridge, bears NE. and SW., desc.
40.00 The point for the 1 sec. cor. falls in bottom of dry ravine, course NW., where natural causes would insure the destruction of the cor. therefore I continue my line west, ascend ridge. 41.50 Set an iron post, 3 ft.long, 1 in in diam., 26 ins. in the ground, for witness cor. to the \(\frac{1}{4}\) sec.cor., marked on brase cap, WC \(\frac{1}{4}\) in E. half.S 33 in NW. and S 4 in SW. quadrant. No trees within limits. Raise a mound of stone, 2 ft. base, la ft. high, N. of cor. Pits impracticable. 51.20 Top of ridge, bears N. and S., desc. 54:50 Dry sand wash,75 lks.wide, course north, ascend abruptly.
80.00 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., marked on brass cap, T 10.N. in N., T 9 N., in S., and R 14 W. in W half.
S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quadrant. No trees suitable for bearing trees within limits. Raise a mound of stone, 2 ft. base, 1 ft. high, W. of. cor. Pits impracticable. This entire mile broken and hilly; ridges with light poor sandy and gravelly loam, washed on slopes, subsoil clay and decomposed limestone. bottom land along ravines and sand washes poor sandy loam on gravelly subsoil. light growth bunch grass., Timber, palo verde and ironwood. in bottom land along ravines. July 26 At 8h 38m a.m., 1.m.t. I set off 34009 N.on the lat.arc, 19930'N. on the decl.arc, and determine a

meridian with the solar at the cor. of secs. 4, 5, 32, and Thence I run,

West, bet.secs.5 and 32. .

Descend We slope of ridge, over stony, hilly land, through palo verde, ocotillo, and greasewood brush undergrowth, 4 to 10 ft.high. .

9.90 Dry ravine, 25 lks.wide, course. north., asc.

38.50 Top of ridge, bears. NW. and SE. desc.

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 N. half and S 5 in S. half.

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

Pits impracticable.. No trees suitable for bearing trees within limits.

40.90 Dry ravine, 8 lks.wide, course NW., ascend ridge.

45.00 Top of ridge, bears, NW. and SE., desc.

61.35 Dry ravine, 10 lks. wide, course NW., ascend ridge.

73.40 Top of ridge, bears NW. and SE., desc.

78.15 Dry ravine, 30 lks, wide, course NW., asc. 80.00 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., marked on brass cap, T 10 N., in N., T 9 N., in S., and R 14 W. in W. half. S 31 in NW., S 32 in NE., S 5 in SE. and S 6 in SW. No trees suitable for bearing trees within quadrant. limits. Raise a mound of stone, 2 ft. base, l ft. high, W. of cor. Pits impracticable.

Land, broken and hilly, general slope NW., ridges with light, poor, sandy and gravelly loam, 8 to 12 ins.deep, on stony clay subsoil: light growth founch grass and weeds. Timber, palo verde and fronwood, along ravines.

Note: At this cor. I set off 19028'N. on the decl. arc, and at noon observe the sun on the meridian, the resulting latitude being 3400 N.

West, bet.secs.6 and 31. Ascend E. slope of ridge, over stony, hilly land, through scattering palo verde, and ironwood timber and brush. Completion of South bdry of T 10 N., R 14 W.

Chains. 21.70 Fop of ridge, bears NW. and SE, desc. 28.60 Dry ravine, 15 lks.wide, course NW., asc.ridge. Top of ridge, bears NW. and SE., desc.

Dry ravine, 75 lks.wide, 3 ft.deep, course NW., ascend gradually Set an iron post, 3 ft.long, k in. in diam., 26 ins. in the ground, for \( \frac{1}{2} \) sec.cor., marked on brass cap, \( \frac{1}{2} \) S 31 in N. half and S 6 in S. half. 32.10 40.00 Raise a mound of stone, 2 ft. base, 1 ft. high, N. of cor. To trees suitable for bearing trees available. Pits impracticable. 69.40 Top of ridge, bears NW. and SE., desc. Dry ravine, 20 lks.wide, course NE., ascend gradually.

Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the
ground, for cor. of Tps. 9 and 10 N., Rs. 14 and 15 W.,
marked on brass cap, T 10 N., in N., R 14 W., in E., T 9 N.,
in S., and R 15 W. in W. half, S 36 in NW., S 31 in NE., S
6 in SE. and S 1 in SW. quadrant. 78.30 Raise a mound of stone, 2 ft. base, 1 ft. high, S. of cor. No trees suitable for bearing trees within limits., Pits impracticable. This entire mile, broken and hilly; ridges, light, poor, sandy and gravelly loam, washed on slopes, bottom land along ravines, gravelly clay loam, light, poor, subsoit over the greater portion of the mile, clay and limestone shale. poor growth bunch grass. Timber, palo verde and ironwood.

July 26,1913.

#### West boundary of T 10 N., R 14 W.

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Survey commenced August 2,1913, and executed with a Young and Sons light mountain transit No.10 with a Smith 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 the latitude and declination arcs.
         I examine the adjustments of the transit and find them to be correct, and from recent tests of the solar apparatus, by comparing its indications, resulting from solar obser-
              vations made during a.m., and p.m. hours, with a meridian
             established by observation on Polaris, I know that the instrument is in satisfactory adjustment.
         I begin at the cor. of Tps. 9 and 10 N. Rs. 14 and 15 W., which I established July 26, 1913, Tatitude 3409'34"N., longitude
             113946'W.
          The magnetic bearing of the meridian at 8h 0m. m. is N. 14°30'
           W.; the angle thus determined gives the mag.decl.14°30'E. All measurements were made with a 5.00 chain steel tape,
            a clinometer being used to determine the slope angles.
           At 8h06
                         a.m., l.m.t. I set off 34009 N.on the lat.arc,
              17050 N.on the decl.arc, and determine a meridian with the solar at the above mentioned cor.,
           Thence I run,
         North, bet.secs.31 and 36.
         Ascend SE. slope, over stony, hilly land, through scattering
                ironwood timber and greasewood brush undergrowth, 3 ft.
                high.
 3.20 Top of stony ridge, bears NE. and SW., desc.
15.06 Dry ravine, 30 lks.wide, course NW., ascend ridge.
18.20 Top of ridge, bears NW. and SE., desc.
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 36 in W. half and S 31 in E. half.
          Raise a mound of stone, 2 ft.base, 17 ft.high, W. of cor.
No trees within limits, Pits impracticable.

74.86 Old road, to Swansea, Arizona, bears NW. and SE.

77.66 Dry ravine, 25 lks.wide, course NW., ascend gradually.

80.00 Set an iron post, 3 ft.long, 3 ins.in diam, 24 ins.in the ground,
          for cor.of secs. 25,30,31, and 36., marked on brass cap,/9/3;
T 10 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. quadrant.
Raise a mound of stone, 2 ft.base, late ft.high, W. of cor.
          No trees within limits, ; Pits impracticable.
          5.20 chs.hilly; ridges, with light, poor, gravelly loam, on clay subsoil, light fgrowth bunch grass. N.60 chs. rolling prairie,
             NW. slope; soil, light, poor, sandy loam, with some gravel,
                 subsoil clay, Timber, scattering ironwood and palo verde.
           North, bet.secs.25 and 30,
          Ascend SW. slope of ridge, over stony, hilly land, through
            greasewood brush undergrowth, 4 ft.high.
  4.60 Top of ridge, bears NW. and SE., desc.gradually.
30.30 Dry sand wash, 25 lks.wide, course NW., ascend gradually, over
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 25 in W. half and S 30 in E. half.
              rolling land.
          Raise a mound of stone, 2 ft. base, lt ft. high, W. of cor.
          Pits impracticable.
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60.60 Road, to Swansea, Arizona, bears NW. and SE. 69.80 Top of ridge, bears NW. and SE., desc. 73.10 Dry ravine, 10 lks.wide, course SW., asc. 80.00 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, marked on brass capa T 10 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. quadrant. Raise a mound of stone, 2 ft.base, la ft.high, W. of cor. Pits impracticable.

45.90 Road, from mine to Swansea, Arizona, bears NE. and SW. 58.10 Dry ravine, 15 lks.wide, 4 ft.deep, course\_NW., asc.

West boundary of T 10 N., R 14 W.

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Chains.
              Land, rolling and hilly, general slope, NW, ridges, with light,
                  poor, gravelly and stony loam, 4, to 10 ins. deep, on light
                clay subsoil rolling land, light, sandy loam, with some
                  gravel, on clay subsoil, very light growth founch grass.
                   No timber.
             North, bet.secs.19 and 24.
Ascend SW. slope of stony ridge, through greasewood brush
                  undergrowth,4 ft.high.
    .25
             Top of low ridge, bears NW. and SE., desc.
36.55
            Dry ravine, 15 lks. wide, course NE, Enter mountainous land,
            bears NE. and SW., ascend steep SE. slope.
Set an iron post, 3 ft.long, 1 in in diam, 26 ing. in the ground, for \( \frac{1}{4} \) sec.cor., marked on brass cap, \( \frac{1}{4} \) S 24 in W.
40.00
             half and S 19 in E. half.
Raise a mound of stone, 2 ft.base, 1 ft.high, W.of cor.; Pits
                impracticable.
            Top of spur, bears NE. and SW., descend abrupt NW. slope.
41.35
43.86
            Dry ravine, 20 lks. wide, course NE., ascend spur.
            Top of spur, bears NW. and SE.; desc.abruptly.
63.05
              Dry ravine, 20 lks.wide, course NE.; ascend abruptly.
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., marked on brass
cap. T 10 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,
79.70
80.00
            Raise a mound of stone, 2 ft. base, l_{\overline{k}}^{\frac{1}{2}} ft. high, W. of cor. Pits impracticable.
              S.36 chs., hilly; ridges, with light, poor, stony soil, from 2
               to 6 ins.deep, on shale subsoil; very light growth of bunch grass and greasewood brush. N.44 chs. mountainous spurs, with very little soil, no grass, No timber.
            Note: At the 4 sec.cor.bet.secs.19 and 24, I set off 1704% N
                     on the decl.arc, and at noon observe the sun on the
                     meridian, the resulting latitude being 349112'N.
              North, bet. secs. 13 and 18,
            Ascend steep rocky SE. slope of spur, over mountainous land,
                through scattering palo verde timber and greasewood brush undergrowth, 3 ft. high.
            Top of spur, bears NE. and SW., descend abruptly into canyon foot of descent, in canyon, 150 ft.deep, cross dry ravine, 60 lks.wide, course NW., ascend spur
Top of spur, 200 ft.above bottom of canyon, bears NW. and SE,
   1.60
 descend abruptly, over NW. slope.

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 13 in W. half and S 18 in E. half. No trees suitable for bearing
                    trees within limits.
            Raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor.; Pits
                impracticable.
 43.10 Dry ravine, 15 lks.wide, course NE., ascend abruptly.
49.00 Top of spur, bears NE. and SW., desc.
80.00 The point for the cor. of secs. 7, 12, 13, and 18. falls in dry
ravine, course NE.; therefore I continue my line north and
                  at.
 80.25 Set an iron post, 3 ft.long, 3 ins.in diam, 24 ins.in the ground, for witness cor. to the cor. of secs. 7, 12, 13, and 18., marked on brass cap, WC.S of center. T 10 N.in N. half, S 13., S 18 in S. half. R 15 W., S12 in NW., and R 14
                  W., S 7 in NE. quadrant. No trees suitable for bearing trees within limits.; Raise a mound of stone, 2 ft.base, lt ft.high, W. of cor., Pits impracticable.
               This entire mile, high, mountainous land; spurs, with light,
                poor, decomposed granite soil, underlaid with ledges of
                solid granite and slate stone, no grass, considerable. greasewood brush undergrowth. Timber, scattering palo
                  verde and ironwood, along edges of ravines.
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August 2,1913.

West boundary of T 10 N. R 14 W Chains August 4: At 9 06 a.m., l.m.t. I set off 34 13 N. on the lat.arc, 17018 N. on the decl.arc and determine a meridian with the solar at the witness cor. to the cor. of secs. 7,12,13, and 18, above described... Thence I run, North, bet. secs. 7 and 12, from true point for cor in ravine, course NE. Ascend abrupt rocky SW. slope of spur, over mountainous land, through scattering palo verde timber and greasewood brush undergrowth, 21 to 4 ft high personal of the persona abruptly. 34.00 pry ravine, 20 lks.wide, course NW., ascend Set an iron post, 3 ft.long, 1 in in diam, 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  $\frac{1}{4}$  S 12 in W. half and S 7 in E. half. No trees within limits. 40.00 Raise a mound of stone, 2 ft.base, 1 ft.high, W.of cor.; Pits impracticable. Dry ravine, 50 lks. wide, 20 ft. deep, course NW., ascend spur. 48.80 72.00 Top of spur, bears NW. and SE., desc. Leave timber; bears NW. and SE. Set an iron post, 3 ft.long, 3 ins. in diam, 24 ins. in the 80.00 ground, for cor. of secs.1,6,7, and 12., marked on brass cap/9/3; T 10 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. quadrant.

Raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor. Pits impracticable. This entire mile is high broken mountains; spurs, with light, poor, decomposed granite and shale soil, 4 to 8 ins.deep, underlaid with ledges of granite and slate stone, along a portion of the line in the vicinity of the # sec.cor. the soil is washed from the spurs and ridges exposing solid ledges of conglomerate sandstone no grass, light growth of greasewood brush and cactus. Timber, scattering palo verde and ironwood. North, bet. secs. 1 and 6, Descend abrupt, rocky, NE: slope of mountain, into canyon, through scattering greasewood brush undergrowth, 3 ft. high. 14.50 Foot of abrupt descent, in canyon, leave mountainous land,

bears E. and W., Enter level, sandy, bottom land, and cottonwood timber. along the Bill Williams Fork River. 14.75 Old road, bears E. and W.

15.00 Intersect left bank of the Bill Williams Fork River, 3 ft. high, bears E. and W., Leave timber and undergrowth, over

sandy river bed, water, clear, 4 ins. deep.

19.20 Intersect right bank of river, 4 ft. high, bears N.80°E. and S. 80°W. Enter level, sandy, bottom land and scattering cottonwood and willow timber.

24.20 Foot of mountain, Leave level, sandy land and cottonwood and willow timber, bears N. 80°E. and S. 80°W., ascend abrupt S. slope of spur, over mountainous land, covered with loose boulders.

34.00 Summit of spur, 500 ft. above river, bears E. and W., descend

N.slope, over loose malapais boulders.

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.1 in W.half and S 6 in E. half. No trees within limits.
Raise a mound of stone, 2 ft. base, l ft. high, W. of cor.; Pits

impracticable.

52.40 Dry. ravine, 60 lks.wide, at foot of abrupt descent, course SE., ascend spur.

62.90 Top of spur, bears NW. and SE., desc.

65.65 Dry raving, 15 lks.wide, course SE., ascend abruptly, over cliffs and ledges.

77.60 Top of mountain spur, bears NW. and SE., desc.gradually. 80.00 Set an iron post, 3 ft.long, 3 ins.in diam. 24 ins.in the ground for cor. of Tps. 10 and 11 N. Rs. 14 and 15 W., marked on brass cap, T 11 N., in N., R 14 W., in E., T 10 N., in S., and R 15 W., in W. half, S 36 in NW., S 31 in NE.,

West boundary of T.10 N. R 14 W. Chains. S 6 in SE. and S 1 in SW. quadrant No trees within limits. Pits impracticable. Land, level bottom and high, rough mountains; mountain spurs covered with loose, malapais stone and light, ppor, sandy loam, with loose shale subsoil. light growth bunch grass and greasewood brush undergrowth. Soil of bottom land, along the Bill Williams Fork River, rich, sandy loam, 2 to 3 ft.deep, moist, on gravel subsoil. Timber, palo verde, cottonwood, and willow.

> Note: at a point 6 chs. S. of the \(\frac{1}{4}\) sec. cor. bet. secs. 1 and 6, on summit of spur, I set off 17916 N. on the decl. arc, and at noon observe the sun on the meridian, the resulting latitude being 34°14'N.

> > August 4,1913.

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East boundary of T.10 N. R 14
Chains.
            Survey commenced August 5,1913, and executed with a Young
                 and Sons light mountain transit No.10 with a Smith
                  solar attachment, The horizontal limb, being provided with
                  two double verniers placed opposite to each other,
           reading to single minutes of arc.

I examine the adjustments of the transit and find them
               to be correct, and from recent tests of the solar appa-
                ratus, by comparing its indications, resulting from
                solar observations, made during a.m., and p.m. hours with
                a meridian established by observation on Polaris. I know that the instrument is in satisfactory adjustment.
           I begin at the cor. of Tps. 9 and 10 N., Rs. 13 and 14 W.,
                which is an iron bost, 3 ins. in diam., 12 ins. above ground
           marked and witnessed as described by the surveyor general, latitude 34°09'34"N., longitude 113°39'39"W.
All measurements were made with a 5.00 chain steel tape,
           a clinometer being used to determine slope angles.

The magnetic bearing of the meridian at 9h a.m. is N 14°32'

W. the angle thus determined gives the mag.decl 14°32'E.

At 9h36 a.m., l.m.t., I set off 34°09½'N.on the lat.arc,
                  17%02'N.on the decl.arc, and determine a meridian with
                   the solar, at the above mentioned cor.
           Thence I run,
           North, bet.secs.31 and 36.
           Descend N.slope of spur, over stony, mountainous land, through
                 scattering palo verde timber and greasewood brush undergrowth, 4 ft. high.
   2.40 Dry ravine, 10 lks.wide, course SW., ascend spur.
 5.00 Top of spur, bears NE. and SW., desc.
12.40 Dry ravine, 15 1ks. wide, course SW., ascend spur.
20.00 Top of spur, bears NE. and SW., desc.
25.20 Dry ravine, 20 1ks. wide, course NW., ascend spur.
 28.00 Point of spur, bears NE. and SW., desc.
40.00 The point for the sec.cor.falls in bottom of dry ravine,
                course NW where natural causes would insure the
                destruction of the cor.; therefore I continue my line
             north, ascend.
 41.25 Set an iron post 3 ft.long, l in.in diam. 26 ins. in the ground for witness cor. to the \(\frac{1}{4}\) sec. cor., marked on brass cap, WC \(\frac{1}{4}\) in S. halfs S 36 in NW. and S 31 in NE. quadr-
                ant.
             Raise a mound of stone, 2 ft. base, It ft. high, W. of cor.
             No trees within limits., Pits impracticable.
 No trees within limits., Pits impracticable.

48.50 Top of ridge, bears NW. and SE., desc.

55.75 Dry ravine, 50 lks.wide, course west, asc.

80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, marked on brass cap, T 10 N. in N. half. R 14 W., S 25 in NW., R 13 W., S 30 in NE., S 31 in SE. and S 36 in SW. quadrant.

No trees suitable for bearing trees within limits.; Raise a mound of stone, 2 ft.base, 1 ft.high, W. of cor., Pits impracticable.
                impracticable.
             This entire mile is rough, mountainous country; spurs, with
                light, poor, gravelly loam, very dry, on clay subsoil, slopes of spurs and ridges washed, stony.light growth bunch grass and cactus. Timber, palo verde.
           North, bet. secs. 25 and 30,
            Ascend S. slope of spur, over stony mountainous land, through
               scattering palo verde timber and greasewood brush
                  undergrowth.
 13.00 Top of ridge, bears NW. and SE., desc. steeply.
  17.30 Foot of descent, in dry ravine, 15 lks.wide, course NW., Leave
                  mountainous land, bears NW. and SE., enter broken and
                    hilly land.
  21.40 Top of ridge, bears NW. and SE., desc.
  36.50 Enter dry ravine, course N. 10°W.
40.00 The point for the \(\frac{1}{4}\) sec.cor. falls in bed of ravine.;
             therefore I continue my line, north.
  42.30 Leave ravine, ascend SW. slope of ridge.
42.50 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the
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(10)

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East boundary of T 10 N. R 14 W.
ground for witness cor. to the 4 sec. cor., marked on brass cap, WC. 4 in S. half., S 25 in NW. and S 30 in NE. quadrant
Chains.
             No trees suitable for bearing trees within limits. Raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor., Pits
                 impracticable.
             Note: At this cor. I set off 17000 N. on the decl. arc, and
                       at noon observe the sun on the meridian, the resulting
  latitude being 34911'N.
44.50 Top of stony ridge, bears NW. and SE., desc.
 49.60 Dry ravine, 25: lks.wide, course NW., asc. 56.40 Top of ridge, bears NW. and SE., desc.
  80.00 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., marked on brass cap, T 10 N. in N. half, R 14 W., S 24 in NW., R 13 W. S 19 in NE., S 30 in SE. and S 25 in SW. quadrant.

No trees within limits, Raise a mound of stone, 2 ft. base, life ft. high, W. of cor. Pits impracticable.
           S.17 chs.,broken and mountainous; spurs, with light, poor,
                   sandy loam, washed on slopes, stony ravines, very light growth bunch grass. N.65 chs. broken and hilly; ridges
                     with light poor stony loam, ary on decomposing shales.
                 no grass, light growth greasewood brush. Timber, palo verde
           North, bet. secs. 19 and 24,
             Descend ME. slope of ridge, over stony, hilly land, through
                    scattering palo verde timber and brush.
    .75
             Old ore road, bears : NW and SE.
            Old ore road, bears : NW. and SE.

Dry rayine, 40 lks. wide, course NW., asc.

Top of ridge, bears NW. and SE., desc.

Bottom of dry rayine, 75 lks. wide, course NW., asc.

Set an iron post, 3 ft. long, 1 in. in dlam., 26 ins. in the ground, for \(\frac{1}{2}\) sec. cor., marked on brass cap, \(\frac{1}{2}\) S 24 in W. half, and S 19 in E. half. No trees within limits.

Raise a mound of stone, 2 ft. base, l\(\frac{1}{2}\) ft. high, W. of cor.; Pits impracticable.
 1.50
18.00
20.00
40.00
               impracticable.
                                                                                         August 5,1913.
             Aug: 6, At 8 36 a.m., l.m.t. I set off 34 11 N. on the lat. arc, 16 46 N. on the decl. arc, and determine a meridian with the solar at the sec. sor. bet. secs. 19 and 24,
             Thence I continue my line
 North, bet. secs. 19 and 24 an Nimile
48.00 Foot of mountain, leave hilly land, bears NW. and SE., enter mountainous land, ascend abrupt SW. slope.
  54.50 Summit of abrupt ascent, on spur, 250 ft. high bears NW. and
                  SE. desc.abruptly.
  55.00 Dry ravine, 10 lks. wide, course NE., asc.
 61.00 Top of rocky spur, bears NE. and SW., desc. 73.20 Dry ravine, 20 lks.wide, course NW., asc.
```

76.00 Top of spur, bears NW. and SE., desc.abruptly.
80.00 Set an iron post, 3 ft.long, 3 ins.in dism. 24 ins.in the ground. for cor. of secs. 13, 18, 19, and 24., marked on brass cap. T 10 N., in N. half, R 14 W., S 13 in NW., R 13 W., S 18 in NE., S 19 in SE. and S 24 in SW. quadrant.
No trees within the prescribed limits; Raise a mound of stone, 2 ft.base, 1 ft.high, W. of cor. Pits impracticable.
S.48 chs., broken and hilly; ridges, with light, poor, gravelly loam, very dryslopes, washed, exposing stratas of sand stone bed rock at a depth of about 4 ft. vegetation cholla cactus and palo verde and greasewood brush.
N.32.chs., high, mountainous country; spirs with with very little poor decomposed granite soil on underlying ledges of same stone, slopes of ridges covered with loose rock.
No grass, considerable short greasewood brush and cholla

cactus. Timber scattering palo verde.

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East boundary of T.10 N., R 14 W.
Chains.
  2.50 Bottom of canyon, 40 lks. wide, course NW., ascend SW. slope.
  7.00 Top of spur, bears NW. and SE., desc.
0.00 Dry ravine, 15 lks. wide, course west, ascend abruptly.
 15.90 Top of spur, bears NE. and SW., desc. 20.60 Dry ravine, 15 lks.wide, course SW., ascend abruptly.
 25.00 Summit of rocky spur, bears NW. and SE., descend abruptly,
              into rocky canyon.
40.00 Set an iron post, 3 ft long, I in in diam, 26 ins in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S.13 in W.
            and S 18 in E. half.
          Raise a mound of stone, 2 ft. base, 1 ft. high W. of cor.
        No trees suitable for bearing trees available., Pits
              impracticable.
 40.20 Bottomof canyon, course NE., thence in canyon.
 42.00 Leave canyon, ascend over SE. slope.
 44.00 Top of spur, bears NE. and SW., desc.
48.00 Same canyon, course NW., ascend SW. slope of cliffs.
65.00 A point on face of cliff, 200 ft. above Bill Williams Fork
River, descend cliffs into box canyon.
 70.85 Foot of perpendicular cliffs, on granite ledge, 20 ft. above
              river.
 71.80 Foot of descent, in box canyon, intersect left bank of the Bill Williams Fork River, bears NE. and SW., thence over
                sandy, river bed, water, 1 to 3 ins.deep., flows west.
 76.00 Intersect right bank of river, bears N. 50°E. and S. 50°W.,
 ascend north wall of canyon, over cliffs.
80.00 The point for the cor. of secs. 7, 12, 13, and 18. falls at a
            point on wall of canyon where a corner can not be established in a satisfactory manner; therefore I return
          to the south side of the canyon, on line, and at
 70.95 Set an iron post, 3 ft.long, 3 ins.in diam, firmly in a mound of stone, for witness cor, to the cor. of secs. 7, 12, 13, and 18., marked on brass cap, WC.N. of center, T 10 N. in N, half Rin41 , S112 in NW., R 13 W., S7 in NE., S 18 in SE., and
            S 13 in SW. quadrant.
           Raise amound of stone, 2 ft.base, 12 ft.high, W. of cor.
        · Pits impracticable.
           This entire mile is a high, rugged, mountainous country; the
              soil consisting of disintegrated granite rock, with very
             little loam light growth of greasewood and palo verde
            brush; No grass and few trees of any size.
         Note: At this cor. I set off 16044'N.on the decl.arc, and at
                  noon observe the sun on the meridian, and obtain a
                   reading of 34°13'N.on the latitude arc.
          From true point for cor. of secs. 7, 12, 13, and 18, I run
          North, bet. secs. 7 and 12,
          Ascend cliffs, North side of canyon, over mountainous land.
 14.00 Top of ascent, on spur, 550 ft. above the bottom of canyon,
              bears E. and W., desc.abrupt N. slope.
 31.70 Dry ravine, 15 lks.wide, course NE., asc.abruptly.
 37.00 Top of spur, bears NE. and SW., desc.
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 12 in W. half and S 7 in E. half.
          Raise a mound of stone, 2 ft.base, 1 ft.high, W. of cor.
          Pits impracticable.
 40.25 Dry ravine, 8 lks.wide, course SE., asc.spur.
 44.00 Top of spur, bears N". and SE., desc. 55.00 Dry ravine, course SE., asc.
 61.00 Top of spur, bears NW. and SE., desc.
 64.00 Dry ravine, 75 lks.wide, course St., asc.
  77.50 Top of spur, 100 ft.above ravine, bears NW. and SE., desc.
 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., marked on brass cap, 9/3; T 10 N., in N. half. R 14 W., S 1 in NW., R 13 W., S 6 in NE.
            S 7 In SE. and S 12 in SW. quadrant.
          Raise a mound of stone, 2 ft.base, 1\frac{1}{6} ft.high, W. of cor.
```

### East boundary of T.10 N., R 14 W.

Chains. Pits impracticable.

This entire mile is high, rough, mountainous country; ridges and spurs with light shale rock, slopes covered with loose boulders, with small amount of loam. washed from the tops and sides of the spurs No timber and

August 6 th.1913.

August 7, at 8 05 a.m., l.m.t. I set off 34°14'N. on the lat.arc, 16°30'N. on the decl.arc, and determine a meridian with the solar at the cor. of secs. 1, 6, 7, and 12, Thence I run,

North, bet. secs. 1 and 6,

Descend abrupt rocky NE. slope of spur, over mountainous

3.20 Dry ravine, 30 lks.wide, in bottom of canyon, course SE.asc.

26.50 Top of spur, bears NW. and SE., desc.abruptly.

Dry ravine, 40 lks. wide, course SE., asc.

39.50 Point of spur, bears NE. and SW., desc. over NW. slope.

Set an iron post, 3 ft.long, 1 in.in diam, 26 ins. in the ground, for \$\frac{1}{4}\$ sec.cor, marked on brass cap, \$\frac{1}{4}\$ S 1 in W.half and S. 6 in E. half.

Raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor. Pits impracticable.

41.70 Dry ravine, 40 1ks, wide, course SW., asc. steep SE. slope, cover ed with loose shell rock.

Top of spur, bears NW. and SE., desc.

Dry ravine, 30 lks.wide, course SE., asc. 52.70

63.10

Top of high ridge, bears E, and W., desc.N.slope.

Dry ravine, 15 lks.wide, course NE., ascend gradually.

Set an iron post, 3 ft.long, 3 ins. in diam, 26 ins. in the
ground, for cor. of tps. 10 and 11 N., Rs. 13 and 14 W., marked
on brass cap, T H N. in N., R 13 W., in E., T 10 N., in S.,
and R 14 W., in W. half, S 36 in NW., S 31 in NE., S 6 in SE.
and S 1 in SW. quadrant.

Raise a mound of stone, 2 ft.base, 1 ft.high, S. of cor. 78,90 80.00

Pits impracticable.

18. 63 che high, rough, mountains, soil of spurs, decomposed shale and light poor, sandy loam, underlaid with ledges of granite and porphrey stone, no grass, considerable greasewood brush undergrowth.; N.17 chs., rolling mountains, N.slope; soil, gravelly clay loam, on decomposing shale rock.

poor growth bunch grass. Timber scattering palo verde
in vicinity of line on either side.

August 7,1913.

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North boundary of T.10 N., R 14 W.
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Chains.

August 7:At 10<sup>h</sup> 35. a.m., 1, m.t. I set off 34°15'N. on the lat.arc, 16°28'N. on the decl.arc, and determine a meridian with the solar at the cor. of Tps. 10 and 11 N., Rs. 13 and 14 W., hereinbefore described.

West, on a random line, along the N. bdry. of T 10 N., R 14 W., setting temp. 1 sec. and sec. cors. at intervals of 40.00

Note: At the temp.  $\frac{1}{4}$  sec. cor. bet. secs. 1 and 36, I set off 16927'N. on the decl.arc, and at noon observe the sun on the meridian, the resulting latitude being 34,915'N. I discontinue the field work on this day at the temp.pt. for.cor.of secs.2,3,34, and. 35.

August 7,1913.

August 8 1913 At 8h 85 5 m a.m., l.m.t. I set off 34°15'N. on the lat.arc, 16.213'N. on the decl.arc and determine a meridian with the solar at the temp.point for cor. of secs.2,3,34, and 35 which I set last evening.

Thence I continue my line, west, on N. bdry.of Tp. Note: At the temp point for cor. of secs. 3, 4, 33, and 34, I set off 16, 10'N, on the decl. arc, and at noon observe the sun on the meridian, and obtain a reading of 349142 N. on the lat.arc.
I discontinue the field work on this day at the temp.point for cor.of. secs.5,6,31 and 32.

August 8,1913.

August 9 At 8 05. m a.m., l.m.t. I set off 34°15'N. on the lab.arc, 15756 N. on the decl.arc, and determine a solar at the temp. point for cor. of secs.5,6,31, and 32. which I set last evening. Thence I continue my line, west, on N. bdry. of Tp. and at 479.00 chs.intersect W. bdry.of Tp.42 lks.S. of the cor. of. Tps. 10 and 11 N., Rs. 14 and 15 W., which I established August 4, 1913, as hereinbefore described. The falling answers to a correction of 0005, or 7 lks.N. per mile counting from the NE. cor. of Tp.; therefore run S. 89°57'E., bet. secs. 6 and 31, marking and blazing true line.

Descend E. slope of spur, over mountainous land. 3.50 Pry ravine, 10 lks.wide, course south, ascend abruptly, over

loose malapais boulders.

11.50 Summit of mountain ridge, bears N. and S., desc. abrupt E. slope. 34.15 Dry ravine, 30 lks. wide, 500 ft. below top of ridge, course SE., asc.

39.00 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 31 in N. half and S 6 in S. half.

Raise a mound of stone, 2 ft. hase, l ft. high, N. of cor. Pits impracticable.

46.40 Top of stony spur, bears N. and S., desc. 54.00 Dry ravine, 40 Iks. wide, course south, asc. 69.00 Top of rocky spur, bears N. and S., desc. 70.75 Dry ravine, 50 lks. wide, course SE., asc.

77.50 Top of spur, bears NW. and SE., desc. over NE. slope.
79.00 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., marked on brass cap, T la N. in N., T lo N. in S., and R l4 W. in W. half.
S 31 in NW., S 32 in NE., S 5 in SE. and S 6 in SW. quadrant; Raise a mound of stone, 2 ft.base, 12 ft.high,

W. of cor. Pits impracticable.
This entire mile is rough, mountainous land; spurs, covered with loose malapais stone, with very little, poor, light, sandy and gravelly loam; light growth founch grass,

No timber.

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North boundary of T, 10 N., R 14 W.
Chains.
           S. 89°57'E., bet. secs. 5. and 32,
            Descend E. slope of spur, over stony, mountainous land,
                        through scattering pale verde and ironwood timber
                       and greasewood brush undergrowth, 3 to high.
             Dry ravine, 15 lks. wide, course south, asc.
12.90 Top of ascent, on point of red sandstone bluff, bears N. and
                   S., desc. abruptly.
            Enter dry sand wash, course south.
Leave sand wash, ascend ridge.
 26.00
 32.00
 Top of ridge, bears N. and S., desc.

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 32 in N. half and S 5 in S. half. No trees suitable for bearing trees within limits.; Raise a mound of stone, 2 ft. base, \( \frac{1}{2}\) ft. high, N. of cor. Pits impracticable.
   45.00 Dry sand wash, 60 lks. wide, course south, asc.
   48.70 Top of ridge, bears N. and S., desc.
64.40 Foet of descent, in W. edge of flat, leave broken, hilly, and mountainous land, bears NE. and SW., enter level, sandy
   78.00 East edge of flat, leave level land, bears NW. and SE.,
                  enter Miliy land, ascend W. slope of ridge.
  So.00 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., marked on brass cap, T 11 N., in N., T 10 N., in S., and R 14 W., in W. half. S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW.
                    quadrant. No trees suitable for bearing trees within
                  limits.; Raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor. Pits impracticable.
             W. 64 chs. broken and mountainous; ridges and spurs with
                     light poor stony and gravelly loam 2 to 8 ins.deep on
                  clay and sand stone subsoil. no grass, E.16 chs.level and hilly; soil of level land light poor sandy loam, dry and fine on gravel subsoil.; ridges clay loam washed on
                -slopes, stony. No grass. Timber, palo verde and ironwood.
                                                                                       August 19,1915.
                                                                                        ા . સુ
             Note: - His total and the declar, and at noon
                       cobserve the summen the meridian and obtain a
                       reading of 34°15"N.on the lat.arc.
              August 11 At 9 05 a.m., 1.m.t. I set off 34015 N. on the lat.arc, 15020 N. on the declarc, and determine
                     a meridian with the soilar at the cor. of secs. 4, 5,
                         32, and 33, above described,
             Thence I run,
            Thence I run,
S. 89°57°E., bet.secs.4 and 33,
Ascend W. slope of ridge, over broken and hilly land.
Top of ridge, bears N. and S., desc.over ridges and ravines.
Top of ridge, bears NE. and SW., desc.
Dry ravine, 12 lks.wide, course SW., asc.
     .05
 23.00
 29.85
             Top of ridge bears NE. and SW., desc.
 34.00
             The point for the 2 sec.cor., falls in bottom of dry ravine, course SW., where natural causes would insure the destruction of the com.; therefore I continue my line
 40.00
                  S. 8957 E., asoend ridge.
             Set an iron post 3 ft.long. I in in diam. 26 ins. in the ground for witness cor. to the desc. cor., marked on brass cap, WC din W. half, S 33 in NE. and S 4 in SE.
```

Fits impracticable.
50.00 Top of ascent, on W.edge of stony mesa, leave hilly land, bears N. and S., enter rolling, mesa land.

Raise a mound of stone, 2 ft. base, I ft. high, N. of cor.

quadrant.

80.00 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., marked on brass

15

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North boundary of T.10 N..R 14 W. Cap, T.11 N.in N., T 10 N.in S., and R 14 W. in W. half, S 33 in NW., S 34 in NE., S 3 in SE. and S 24 in SW.quadrant.
      Raise a mound of stone, 2 ft.base, 1 ft.high, W. of cor. .
       Pits impracticable.
      W.50 chs., broken and hilly; ridges with light poor sandy and
           clayey loam on clay and decomposed shaken no grass.
      E. 30 chs rolling meaa land, W. slope soil stony and sandy
        loam 10 ins.deep on clay and loose shale rock subsoil.
       no grass. Scattering palo verde timber in bottom of ravines.
       Note: At this cor. I set off 15018 N.con the decl. arc, and at
            noon observe the sun on the meridian and obtain a
             a reading of 34°15'N. on the lat.arc.
       S. 89°57'E., bet.secs.3 and 34.
       Over rolling stony mesa land, through scattering palo verde,
           and ironwood timber and greasewood brush undergrowth,
           4 ft.high.
10.00 Leave rolling, mesa land, bears NE. and SW. Enter broken,
           . stony, hilly land, descend SE slope.
14.80 Dry ravine, 10 lks. wide, course SW., ascend.
25.50 Top of ridge, bears NE. and SW., desc.
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 34 in N. half, and S 3 in S.half. No trees within limits.; Raise
          a mound of stone, 2 ft. base, l^{\frac{1}{k}} ft. high, N of cor. Pits
         impracticable.
      Dry sand wash, 50 lks.wide, course SW, asc.
```

Top of ridge, bears NW. and SE., desc. 56.00

Dry ravine, 50 lks. wide, course NW., asc.

59.80 Top of ridge, bears NW. and SE., desc.

Dry sand wash, 75 lks.wide, course SW., ascend abrupt NW. slope, over mountainous land. Top of spur, bears NW. and SE., desc.

65.75

71.80 The same sand wash, 80 \*ks.wide, course NW., asc.W. slope of spur.

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., marked on brass. cap, T 11 N., in N. T 10 N., in S., and R 14 W. in W. half., S 34 in NW., S 35 in NE., S 2 in SE. and S 3 in SW.

quadrant. No trees suitable for bearing trees within 80.00 limits.; Raise a mound of stone, 2 ft. base, le ft. high, W. of cor. Pits impracticable.

10 chs, rolling mesa land, W. slope; soil sandy loam with some hravel on clay and sand stone subsoil. No grass.

E. 70 chs., broken, hilly, and mountainous. soil ranging from light poor sandy loam to barren sandstone rock.very little vegetation, Timber, scattering palo verde and ironwood, along ravines and sand washes.

August 11,1913.

August 12, 913; At 8h 35m a.m., l.m.t. I set off 34°15'N. on the lat.arc, 15°03'N.on the decl.arc, and determine a meridian with the solar at the cor. of secs. 2, 3, 34, and 35, above described, Thence I run, S. 89°57'E., bet. secs. 2 and 35,
Ascend W. slope of spur, over stony, mountainous land. Top of rocky spur, bears NE. and SW., desc.abruptly. Dry sand wash, 75 lks.wide, course SW., ascend abrupt, rocky, 3.30 10.80 SW. slope of mountain spur. Top of ascent, on S. face of mountain peak, descend along 34.00. SE. slope. Dry ravine, 15 lks.wide, course SW., ascend. Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the 36.30 40.00 ground, for  $\frac{1}{4}$  sec.cor., marked on brass  $cap_{A}^{m_{1}}$  S 35 in K.half and S 2 in S. half.

Raise a mound of stone, 2 ft.base, 12 ft.high, N.of cor.

# North boundary of T.10 N. R 14 W.

Chains

Pits impracticable.

Top of spun, bears N. and S., desc. abruptly. 44.30

51.00 Dry ravine, 50 lks.wide, course NW., asc.

Set an iron post, 3 ft.long, 3 ins.in diam, 24 ins.in the 80.00 cretind for cor. of secs. 1, 2, 35, and 36., marked on brass cap, T 11 N., in N., T 10 N., in S., and R 14 W., in W. half, S 35 in NW., S 36 in NE., S 1 in SE. and S 2 in SW. quadrant.

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

Pits impracticable.

This mile is high, rough, mountainous country, with very little, poor, light, sandy loam, or underlying ledges of shale rock. No grass, light growth of greasewood brush and cactus. Timber, scattering palo verde and ironwood, along bottoms of the ravines.

S. 89°57'E., bet. secs. 1 and 36,

Ascend SW. slope of rocky spur, over mountainous land,

through scattering greasewood brush, 3 to 4 ft.high. Top of spur, bears NW. and SE., descend rocky NE. slope, into .10 canyon.

6.50 Foot of descent, in canyon, 150 ft. below cor., cross dry ravine, 20 lks. wide, course NW., ascend abruptly.

Top of spur, 200 ft. above bottom of canyon, sears NW. and SE., 18.30 descend SE. slope.

35.60

Dry ravine, 25 lks.wide, course NE., asc.

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 36 in N. 40.00 half and S lain S. half.

Raise a mound of stone, 2 ft. base, 1 ft. high, N. of cor.; Pits impracticable..

40.50

Point of spur, bears N.W. and SE., desc.
Dry ravine, 10 lks.wide, course N.W., ascend abruptly. 42.60

Top of spur, 50 ft. above ravine, bears NW. and SE., desc. steep 49.00 E. slope.

Dry ravine, 15 1ks. wide, course NW., ascend abruptly. 58.20

71.50 Top of spur, bears NW. and SE., desc. 10 10 10 10 80.00 The cor. of Tps. 10. and 11. N., Rs. 13 and 14 W., herein before described. This mile is rough mountainous land : spurs with very little light poor stony soil, slopes, barren rock ledges. vegetation principally greasewood brush and cactus. Timber scattering palo verde mean the line.

pele de <del>August 18,1913</del>.

NOTEASE 16: At the & sec. cor. bet. secs. 1 and 36. I set off 15°00'N. on the decl.arc, and at noon observe the sun on the meridian, and obtain a reading of 34°15'N.on the latitude arc.

August 12-1913. BOUNDARIES OF TP. 10 NORTH, RANGE 14 WEST.

Designated Bearing Distance N. S. F. W. W. S.	Line	True	Distance	Latitud	<b>e</b> s ,	Departu	res
Vasit boundary 4 North 480.00 1480.00 42 479.00 480.00 480.00 49 49.00 49.00 49.00 49.49 479.49 479.49					S. ·	F	W 479.51
ABO.00 480.42 479.49 479.49 479.49	Westryboundary 4"	North		1480.00			
Onvergency 49				•		479.00	
480.00 479.49			. San		±00,000	.49	•
	<b>)</b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	evice.	480.00		479.49	
	e modernice on	• •				<b>Error</b> in	

BOOK A640

## North boundary of T 10 N., R 14 W.

### General Description.

This township is mountainous in the northeastern, northern, central, and western parts and level and rolling in the eastern part in the Bill Williams Fork River valley.and near the southwestern corner.

The township is poorly watered and poorly timbered with palo verde and mesquite in the mountaincus portions.

During the greater part of the year there is no water flowing in The Bill Williams Fork River at this place.

Sidney & Blout
U.S. Surveyor.

# For FINAL OATH OF UNITED STATES SURVEYOR. see Book " 0 " Group 20

\ I,		., U. S. Surveyor, do solemnly	swear that, in pursuance
of special instructions receive	ed from the U.S. Sur	veyor General for	
\		, 191 , I have w	
\		ity with said instructions, th	
Instructions, and the laws of	the United States, su	arveyed all those parts or port	cions of
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		of the	
		,	
=	_	by me, and under my dire	
•	-/	have been established and per	
		nd the special written instruct	
		ne specific manner described in	the field notes, and that
the foregoing are the original	l field notes of such su	irvey.	
			U. S. Surveyor.
			V. S. Surveyor.
Subscribed by said		, and sworn to before me)	
thisday o	f	, 191	
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	APP	ROVAL.	
	OFFICE OF T	HE UNITED STATES SURVEYO	R GENERAL
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		Phoenix, Arizona, Ju	1Y, 191 4
The foregoing field note	s of the survey oft	he North East and W	est Boundaries
	and Completi	on of the	
South bounds	ary of Township	No.10 North, Range	No .14 West
of the Gila	and Salt River	Base and Meridian,	rizona
	·		
executed by Sidney E	E. Blout U.	S.Surveyor	
•	_	29 1912	
<del>-</del>		and explanations made, the	*
surveys they describe, are he	•	-	
sarroys oney describe, are ne	LOOJ approved.	Chank Ing	alle
		/ <del>\t</del>	<del>J. S.</del> Surveyor General.
- I cortify that the foregoi	ng transcript of the fi	eld notes of the above describ	of Arizona
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