2767

Book "B"

Standard Lines FIELD NOTES

BOOK 2767

OF THE SURVEY OF THE

			<u>E</u> •
	RESURVEY OF	THE	
First Standard P	erallel South, thru	parts of Rs .28 & 29 E.)
		f The	
Fifth Guide Meri	dian East, thru Ts.2	2 & 3 S., bet.Rs.29 & 30) E•
		F THE	
Gila & Salt Rive	er Base Line thru l	R. 28 E.	
and RETRACEMEN	IT and RESURVEY	OF THE	
Third Standard I	earallel South thru	Et of R.29 E. & thru R	.30 E.
		•	
•			
Of the Gil	a and Salt River Bas	e & Meridian Meridian ,	
In the State of	ARIZONA		
	EXECUTED	D BY	
	WILLIAM B. KI	MNEL	
			1010
In the capacity of U.S.	Surveyor, under instr	ructions dated August 2	
In the capacity of U.S. August 9, 1912.	Surveyor, under insti February 18, 1913		3
In the capacity of U.S. August 9, 1912, issued by the United Group No. 26,	Surveyor, under instr February 18, 1913 States Surveyor Gene vhich were approved by t	ructions dated August 2 and December 30, 1913 ral to govern surveys i	ncluded in neral Land
In the capacity of U.S. August 9, 1912, issued by the United Group No. 26,	Surveyor, under instr February 18, 1913 States Surveyor Gene vhich were approved by t	ructions dated August 2 and December 30, 1913 ral to govern surveys i	ncluded in neral Land
In the capacity of U.S. August 9, 1912, issued by the United Group No. 26, 10 Office, dated September, January	Surveyor, under instr February 18, 1913 States Surveyor Gene vhich were approved by t	ructions dated August 2 and December 30, 1913 ral to govern surveys in the Commissioner of the Ge 9, 1912, Feb.28, 1913 and to authority contained in	ncluded in neral Land
In the capacity of U.S. August 9, 1912, issued by the United Group No. 26, 10 Office, dated Septe Time, January Congress dated Ju	Surveyor, under instr February 18, 1913 States Surveyor Gene which were approved by a mber 9, 1910, Aug.19 9 , 1914, pursuan	ructions dated August 2 and December 30, 1913 ral to govern surveys in the Commissioner of the Ge 9, 1912, Feb.28, 1913 and to authority contained in	ncluded in neral Land

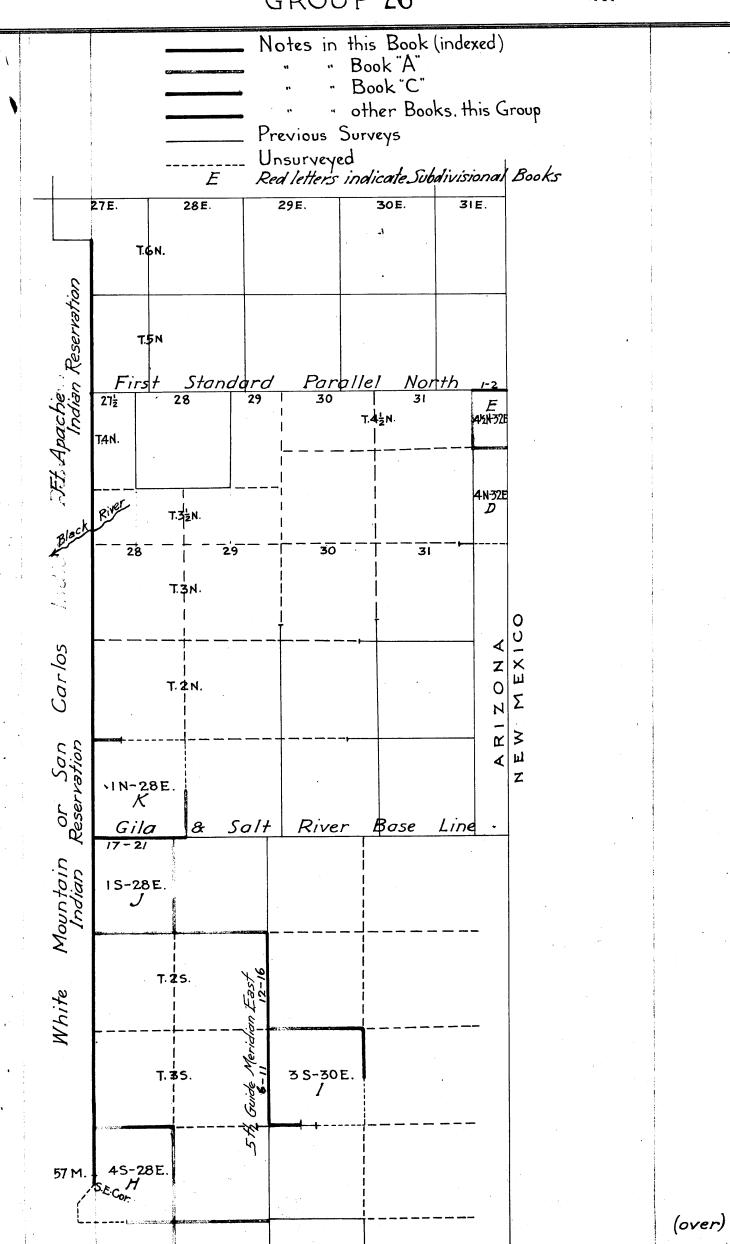
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INDEX DIAGRAM Book "B" GROUP 26

BOOK 2767





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Retracements & Resurveys 1st.Stand.Par.N., N. of frac.T. 4 3. ?R. 32

Chains

Retracements and resurveys of standard lines which are described in this book were commenced Sept.27,1913, and from that date to Sept.11,1914, were executed with a Young and Sons' Light Mountain Transit No.8541, after which date a Young and Sons' Light Mountain Transit No. 8588 was used. For description and certificate of approval for both of these instruments, see Book "A." page 1.

Knowing from recent and repeated tests with Instrument No. 8541, on a meridian established by observation on Polaris at elongation, that it is in correct adjustment, I proceed to the retracement of that portion of the 1st Standard Parallel N. south of frac. T.5 N., R.31 E. from the Arizona-New Mexico bdy. west to the standard

rom the Arizona-New Mexico bdy. west to the standard \$\frac{1}{4}\$ sec.cor. on south bdy.of sec.33 of said Tp., this portion of the parallel being the north bdy.of frac. T.4\frac{1}{2}\$ N., R. 32 E.

Oct.3, 1913. At 9h. 58m. a.m., l.m.t., I set off 33°46\frac{1}{2}\$ N. on the lat.arc; 3°54\frac{1}{2}\$ S. on the decl.arc; and determine a meridian with the solar at the closing corner to frac. Ts. 4 and 5 N., R.31 E. on the Arizona-New Mexico bdy., which is an make post, 4 ins. square, set in mound of stone, marked,

S C on E..

S C on E., T 4 N R 31 E in SW., and T 5 N R 31 E on NW. face, and witnessed

by two bearing trees.

Thence I rung

West, on random line, on south bdy. of frac. sec. 35, frac. T.5 N., R.31 E.

Intersect point for original standard \(\frac{1}{4}\) sec.cor., which I locate, S.75°W., 19 lks.dist. from the original bearing tree which I find in good state of preserva-All signs of the original corner post, pits and tion. mound have disappeared.

Wontinue measubement and random line west

Fall 47 lks. south of the original standard cor. of secs, 34 and 35, frac.T.5 N., R. 31 E., which is a lava stone, 12x18x18 ins. set in a mound of stone, marked

and witnessed as described by the Surveyor General. The true course and distance of the west $\frac{1}{2}$ mile of Sbdy. of frac.sec. 35 is therefore, N.89° 19' W.,39.40

I now return to the closing cor. on Arizona-New Mexico bdy., and resurvey the First Standard Parallel North along south bdy. of frac, sec.35, frac.T.5 N., R.31 E. Over level land, through scattering timber and undergrowth. West on true line to

The point for original standard \$\frac{1}{4}\$ sec.cor., where I now reestablish said cor. as follows: Set a basalt stone

14x10x6 ins., 10 ins. in the ground, marked S $C_4^{\frac{1}{4}}$ on N.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft.

high, north of cor. Pits impracticable.
Thence I run,
N. 89° 19' W., on true line, on west half mile. Over rolling land, through scattering timber and undergrowth.

Draw, course SE. Ascend slight SE. slope of ridge.
Closing cor.to frac.secs.16 and 17, frac.T.42 N.,R.32 E.,
established by me, as described on Book "E."
Ridge, brs.N.and S. Descend SW. slope to gulch. •06 1.37

9.66 Draw, course SW.; continue descent.

Gulch, course S., draining into Pace Creek, 20 lks.S. of this point. 29.66

Pase Creek, 40 lks.wide, course SE. 31.51 39.40 Ascend NE. slope to The original standard cor. of secs. 34 and 35, hereinbefore `described.

> Land, level and rolling. Soil, rocky, 4th rate. Timber, pine, cedar and fir. Undergrowth, scrub oak.

2.34

41.74

2.34

19.66

39.97

```
2 Retracement & resurvey lst. Stand. Par. N. of frac. T. 4 N. R. 32 E.
Chains
          From the original standard cor. of secs. 34 and 35, I run,
          West, on random line on south bdy of sec. 34, frac. T.5 N.,
          R.31 E.
Fall 14 lks.S. of the original standard 4 sec.cor., which is a stone 8x10x12 ins., projecting from a mound of stone
40.03
              marked and witnessed as described by the Surveyor Gen-
              eral.
          The true course and dist. of E. mile south of sec. 34, is therefore N. 89° 48′W., 40.03 chs.
Returning to the original standard cor. of secs. 34 and 35,
          I retrace this ½ mile for topography, as follows:

N.89° 48 W. on a true line, along the east half of south
bdy. of sec. 34.
          Through scattering timber and undergrowth. Ascend slight
              east slope to
          Ridge, brs. NW. and SE. Descend SW. slope, to
 8.00
          Draw, course SW. Ascend slight SE. slope, to Spur ridge, brs. SW. Descend W. slope, to
10.00
14.00
          Draw, course S. Ascend SE slope, 65 ft. to
15-00
          Rocky spur, brs.SW. Descend NW. slope, 170 ft.to
20.90
          Gulch, course SW. Thence along south slope. Gulch, course SE. Ascend NE slope, 35 ft. to
30.50
32.50
          The original Stand. \frac{1}{4} sec.cor. hereinbefore described.
40.03
                                                          Oct.3, 1913.
          Sept. 27; 1913: At 8h. 5m., a.m., l.m.t, I set off 33° 46½ N. on the lat.arc; 1°31½ S. on the decl.arc; and determine a meridian with the solar at the original standard eer. ½ sec.cor. of sec.34, hereinbefore de-
                scribed.
          Theace I run,
          West, on random line on west half mile of south bdy.sec.34. Fall 36 lks.N. of the original standard cor.of secs. 33 and 34, frac.T.5 N.,R.31 E., which is a stone,l0x4x6 ins. protruding from a mound of stone, marked and witnessed
39.89
              as described by the Surveyor General. The true course and dist. of this half mile is therefore S.89° 29 W.,
                39.89 chs.
          I return to the original standard 4 sec.cor., and betrace
          this half mile for topography as follows:
S.89°29'W., on a true line, along the west half of south
bdy. of sec. 34.
          Through scattering timber and undergrowth. Ascend SE. slope,
                70 ft. to spur,
          70 ft. to spur, Closing cor. to frac. secs. 17 and 18 of frac. T. 42 N., R. 32
 2.32
                E., established by me, as described in Book
          Rocky spur, brs.SW. Descend slight SW. slope, 70 ft.to
11.15
17.70
18.30
          Canyon, 2 chs.wide, course SE.
          Jackson Creek in Canyon, course SE.
                                                              Ascend NE slope, 145
                ft.to ridge.
25.80
26.30
          Rocky ledge brs. NW. and SE- Continue ascent.
          Ridge, brs.N.and S. Descend to
          Thence over level land.
27.00
35.55
39.89
          Trail, brs. NW. and SE. Thence along slight south slope. The original standard cor. of secs. 33 and 34, hereinbe-
            . fore described.
          Land, rolling, hilly and mountainous. Soil, rocky, 4th rate.
          Timber, pine, fir and oak.
          Undergrenth, scattering scrub oak. Mountainous land, 12 chs.
           From the original standard cor. of secs. 33 and 34m I run,
          West, on random line, on south bdy. of sec. 33, frac. T 5 N.,
                R. 31 E.
          Fall 148 lks. N. of the original standard 14 sec.cor.,
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2767

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BOOK
Retracement & Resurvey 1st. Stand. Par. N. N. of frac. T. 4 2 N.
Chains
                   which is a granite stone, set in a mound of stone, marked and witnessed as described by the Surveyor General. The true course and dist. of east half mile of S. bdy. of sec. 33 is therefore S. 87° 53' W., 40.00
                   chs.
             I return to the original standard cor. of secs.33 and 34, and retrace this half mile for topography as follows: S.87°53'W., on a true line, along the east half of S.bdy.of sec.33.
             Along south slope, through scattering timber and under-
                   growth.
            Descend SW. slope, 170 ft.to canyon. Alpine road, brs.NE and SW.
  2.43
3.30
13.50
15.50
            Canyon, course Sw. Ascend. Spur ridge, brs. Sw.; descend.
                                                  Ascend SE slope, 80 ft.to
17.50
             Canyon, course SW.
23.00
26.50
             Along south slope.
             Ascend SE. slope, to
30.50
             Spur ridge, brs.S. Descend SW' slope, 30 ft.to
             Canyon, course S. Ascend SE. slope, 70 ft.to
Spur ridge, brs.S. Descend SW slope, 20 ft.to
The original standard a sec.cor.of sec.33, hereinbefore
32.00
36.50
40.00
                   described.
             Land, rolling and hilly and mountainous. Soil, rocky, 4th rate.
             Timber, pine and oak.
            Undergrowth, scrub oak. Mountainous land 16 chs.
            Note: The sky was overcast at noon, making an observation
                     for latitude impossible.
                                                                                       Sept. 27, 1913.
             Resurvey First Stand. Par. South, thro. parts of Rs. 28 and 29E.
             Resurvey commenced Nov. 17, 1913, and executed with Young
                   and Sons' Light Mountain Transit, No. 8541.
             Knowing from recent and repeated tests of this instrument
                   on a meridian established by observations on Polaris-
                   at elongation that it is in correct adjustment, I prodeed to the retracement of enough of the First Standard
                  Parallel South to permit me to reestablish the Standard corner of Ts.5 S., Rs.28 and 29 E., of which I am unable to find any trace.
            At 2h.3m., p.m.l.m.t., I set off 32° 56\frac{1}{2} N.on the lat.arc; 18^{\circ}59\frac{1}{2} S. on the decl.arc; and determine a meridian with the solar at the original standard \frac{1}{4} sec.cor.of sec.36, T.5 S., R28 E., which is a stone in place, 24x12x12 ins. above ground, marked and witnessed as de-
                   scribed by the Surveyor Ganeral.
             Thence I run,
            East, on a random line, along the east half off south bdy. of sec.36, T.5 S., R.28 E.
Findino trace of original standard Tp. cor.; continue
40.00
                   measurement and random line E. on west 1 S.bdy. of sec.
            31, T.5 S., R. 29 E.
Fall 19 lks.N. of the original standard \(\frac{1}{4}\) sec.cor \(\frac{61}{61}\), which is a stone in place, 18x18x12 ins. above ground,
                  marked and witnessed as described by the Surveyor General. The true course and dist.of each of these a miles
             is therefore N.89°52 W., 39.89 chs.

I now resurvey this portion of the 1st. Standard Parallel South, as follows: From the original standard \( \frac{1}{4} \) sec.cor.
           on south bdy. of sec.31, I run,

N.89°52'W., on a true line, along the west half of south
bdy. of sec.31, T.5 S., R.29 E.

Descend SW. slope, 150 ft., through scattering undergrowth.

Eluff, brs.NW and SE. From this point, line passes over
a rocky broken V-shaped canyon, course NW.200 ft.deep,
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run,

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Resurvey of 1st.Stand.Par. S.,thro.parts of Rs.28 and 29 E.
Chains.
                  over which I cannot chain; therefore, set instrument
                 at this point, and take stadia measurement to pod on
                 line on west side of canyon. Rod reading (mean of three) 10.745 ft. Ratio, 1 ft. 2. chs. Focal constant, 1.025 ft. Angle of depression - 17° 28'. The dist.on line to rod is therefore, 10.745 x 2 x .9099 plus .016
                  = 19.57 chs., which added to 6.09 chs.=
           Stadia rod point. Descend NW. slope, 250 ft.to
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for reestablished standard cor. of T.5 S.,
Rs. 28 and 29 E. marked on brass cap,
25.66
39.89
                                        1913 on Serim,
                                       T 5 S in N.half;
R 28 E S 36 in NW., and
R 29 E S 31 in NE quadrant;
                 and raise a mound of stone 2 ft.base, 12 ft. high, N. of
                 cor. Pits impracticable.
            From above described township cor., I run, N.89°52 W. on a true line.
            Resurveying the east half of south bdy.of sec.36, T.5 S., R.28 E. Descend NW. slope, 150 ft.to Gila River.
            Wash, course N. Continue to descend NW. slope. From instrument on line at this point, I take stadia meas-
  •38
1•83
                 urement to rod on line on right side of the Gila River. Rod reading 6.125 ft. Ratio, 1 ft. 2 chs. Focal constant, 1.025 ft. Vertical angle, plus 2°30°. The dist. on line to rod is therefore, 6.125 x 2 x .9981 plus .016 = 12.25 chs., which added to 1.83 chs. = 14.08 chs. rod point. Continue chaining from instrument
                 point.
            Enter heavy undergrowth, brs.NE. and SW. Enter Gila River bottom, brs.NE. and SW. Rodd brs.NE. to Clifton, and SW. to Solomonsville.
  4.91
6.41
10.73
            Left side of Gila River, very rapid, muddy water, 4ft. deep, course SW. Discontinue chaining.
11.03
            Rod point on right side of Gila River, 100 ft. above river.
14.08
            Bluff brs. NE. and SW. Thence by chain measurement. Ascend
                 SE. slope, 250 ft.to
            Spur ridge, brs.SW. Descend slight SW. slope. Cliff, 50 ft.high, brs.N.and S. Ascend SE. slope, 110 ft.
18.38
21.38
24.43
                                                            Descend SW. slope, 15 ft.to
            Rocky spur ridge, brs.SW.
            Draw, course S. Ascend SE. slope, 40 ft.to
26.41
            Rocky spur rigge, brs.S. Descend SW. slope, 240 ft.to Canyon, course SE. Ascend NE. slope, 170 ft.to 2 sec.cor.
27·53
34·51
            Rocky spur ridge, brs.NE. Continue to a scend NE. slope. The original standard 4 sec.cor. to sec.36, T.5 S., R.28
37.11
39.89
                 E., hereinbefore described.
            Land, rolling, hilly and mountainous.
Soil, rocky, 4th rate, except along left bank of the Gila Riverm which is 2nd rate.
            No timber.
            Undergrowth, dense and scattering mesquite and catclaw.
                                                                           Nov.17, 1913.
            Resurvey of First Standard Parallel S., thro. part of R. 29 E.
            After a preliminary examination of the 1st Stand. Parallel S., S. of sec. 35, T.5 S., R. 29 E., I find that it is out of limits of error in dist., and as there are no accepted
                 subdivision lines thed to this portion of the Parallel
                 I make an independent resurvey as follows:
            From the true point for standard cor. of secs. 34 and 35, which is in a wash 30 lks.wide, course N., 100 lks. east of the original witness cor. to said cor., which
                 is a malpais stone 12x10x8 ins. above ground, marked
                 and witnessed as described by the Surveyor General, I
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Resurvey of First Stand Par.S. thro part of Range 29 East.
Chains.
             East, on true line, on south bdy.of sec.35.
Through scattering undergrowth, over stony ground. Ascend
NW. slope, 140 ft.to
            NW. slope, 140 ft.to

Top of spur, brs.N. Continue over rolling land.

Top of spur, brs.N.; descend NE slope, 90 ft.to

Wash,20 lks.wide, course NE. Ascend NW. slope, 90 ft.to

Top of ridge, brs.NE and SW. Descend E slope, 140 ft.to

Gulch, course N. Ascend W. slope,100 ft.to top of ridge.

Fall 4 lks.N. of the original standard 4 sec.cor, which

is a stone 10x6x10 ins. above ground, marked 5 C on

N.face, with a mound of stone N. of cor. I destroy this

old cor, and continue measurement on true line east.

Set an iron post 3 ft.long. 1 in. indiam. 4 ins. in the
 7.80
16.00
23.00
30.00
39.00
39.45
              Set an iron post 3 ft.long, 1 in. indiam., 4 ins. in the ground, supported by a mound of stone, for reestablished
40.00
                    standard $\frac{1}{2}$ sec.cor., marked on brass cap,

1913 on S'rim,
$\frac{1}{4}$ S 35 in N.half;

and raise a mound of stone, 2 ft.base, $\frac{1}{2}$ ft. high, N.
                                        Pits impracticable.
              Top of ridge, brs. N. and S. Descend NE slope 120 ft. to Draw, course N. Continue over rolling land. Draw, course NW. Ascend SW. slope, 110 ft. to
45.00
53.00
66.<u>75</u>
              Top of ridge, brs. NW. and SE. Continue along rolling N.
70.50
                    slope.
             Fall 9 lks. N. of original standard cor. of secs. 35 and 36,
78.97
            which is a stone 6x15x10 ins. above ground, marked S C on N., 5 notches on west, and 1 groove on E.face; with a mound of stone north of cor. I destroy this old cor., and continue measurement on true line east. Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished standard cor. of secs.
80.00
                    35 and 36, marked on brass cap,
                                            1913 on S.rim,
                                            T 5 S R29 E in N.half;
                    S 35 in NW., and
S 36 in NE quadrant;
and raise a mound of stone 2 ft.base, 12 ft. high, N. of
                    corner. Pits impracticable.
              Land, rolling and hilly. Soil, 4th rate, rocky, dry.
              Undergrowth, cacti, mesquite and catclaw.
             A little grass.
                                                                                       Jan. 17, 1914.
            Jan. 19, 1914:
        East, on true line, on south bdy.of sec.36.

Descend ML. slope, 160 ft. Through scattering undergrowth, over rocky land. Descend ME. slope, 160 ft. to
              Gulch, course NE. Ascend NW. slope, 85 ft.to.
Top of ridge, brs.NE. and SW. Descend SE. slope, 80 ft.to
17.00
25.00
              Gulch, course NE. Ascend NW. slope, 50 ft. to top of
33.60
                    ridge.
            Fall 12 lks.S. of the cor. set by Philip Contzen, Nov. 26, 1895 as the Standatset..cor. to sec. 36, T.5 S., R. 29 E. twhichris a stone fin place 20x8x12 ins. above ground;
38•93.
                    marked ScC + on N.face, with mound of stone north of
                    connersorI, destroy this old core, and continue measure-
                    ment on true line east.
            Set an iron post 3 ft.long, 1 in. in diam., 16 ins. in
                    the ground, aupported by a mound of stone, for reestab.
            Std. 4 sec.cor., marked on brass cap,
                    1913 on S.rim,

$\frac{1}{2}$ S 36 in N.half;

and raise a mound of stone 2 ft.base, $\frac{1}{2}$ ft. high, N. of corner. Pits impracticable.
            Trail, brs. NE and SW.
Top of ridge, brs. NE and SW. Descend E. slope, 25 ft.
Intersect west bdy. of T. 6 S., R. 30 E., where I set an
41.90
43.00
46.13
```

140

Resurvey of 5th Guide Mer. E. Thro. T. 3 S., bet Rs. 29 and 30 E.

Resurvey commenced Feb. 3, 1914, and executed with a Young and Sons Light Mountain Transit No.8541, described on page 1, of Book "A."

I examine the adjustments of the transit, and correct the

level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from

Chains

•50

14.50 17.00 23.60 34.25 40.00

solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris,

I proceed as follows:

At our camp, in the SE ½ of sec. 29, T.3 S., R.30 E.; lataitude 33° 08' N.; longitude, 199° 17'W., I set off 33° 08'N. on the latarc; 16°38'S. on the declarc; and at 8h. 45m. a.m., l.m.t., determine with the solar a meridian, and mark a point thereon by setting a flag firmly in the ground, about 5 chs. north of my station. At this station, I set off 16°34'S. on the decl.arc; and

at apparent noon, I observe the sun on the meridian; the resulting late is 33° 08'N.

At this station, I set off 35° 08'N. on the latearc; 16° 30'S. on the declearc; and at 4h. 15m.p.m., 1.m.t., and determine with the solar a meridian, which agrees with a.m. observation.

At 6h. 43m. p.m., by my watch, which is correct l.m.t., I observe Polaris in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, about 5 chs. north of my station.

Feb. 3, 1914.

Feb. 4, 1914: At 6h. 30m. a.m., l.m.t., I lay off the azimuth of Polaris, 0°44 tothe east, which is the azimuth corresponding to an hour angle of 2h.8m., the point falling on the flag set by solar observations yesterday; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetiz decl. of the true meridian, at 6p.30m. a.m., is 12°56 E.

I test the stadia wire interval, by setting rod 401.6 lks. from my station; the rod reading is 2.000 ft., which is correct.

From the cor. of Ts. 3 and 4 S., Rs. 29 and 30 E., reestab-lished by me, as described in Book "I." I resurvey the 5th. Guide Meridian East, north through Ts. 3 and 2 S., bet. Rs. 29 and 30 E. As there are no accapted subdivisions on either side of line through these Ts., I reestablish the cors. along line, at inetervals of 40 chs.

Ascend south slope, over rocky land. Spur ridge. slopes SE. Enter dense Enter dense undergrowth. brs. NW.

and SE. Ascend SE. slope. Top of ascent, 140 ft. above 30 ft.to above Tp. cor. Descend NE. slope, 9.00

Draw, course SE.; ascend.SE. slope, 45 ft.to
Top of ascent; descend NE. slope, 70 ft.to
Gulch, course SE.; ascend SE. slope, 270 ft.to
Ridge, brs.E.and W. Continue along rolling east slope.
Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished \(\frac{1}{4} \) sec.cor., marked on brass

cap, 1913 on S.rim, \$\frac{1}{4}\$ S 36 on W., and \$S 31 on E.half;

raise a mound of stone 3 ft.base, 12 ft. high, west of cor. No old cor. found.

Trail, brs. NE and SW. Ridge, brs. NE. and SW. 41.10 43.25 52.25

Descend N. slope, 265 ft.to Bottom of canyon, course E. 25 at all all the states; Trai E. and W. Ascend SE. slope, 250 ft. to spur ridge. Trail brs.

58.45 Prospect hole about 30 ft.west. descend NE. slope, 200 ft.

Spur ridge, slopes E.; descend NE. slop Wagon road to Polaris mine, brs. E. and W. 66.50

```
8. Resurvey of 5th Guide Mer. E., through R. 3 S., hetc. Rs. 29 & 30E
Chains.
74.25
           Bottom of canyon, course E. Ascend S. slope, 125 ft.to
80.00
          Spur ridge, slopes SE. Set an iron post 3 ft.long, 3 ins.
                in diam., on bedrock, supported by a mound of stone, for the reestablished cor. of secs. 25,30,31 and 36,
                marked on brass cap,
1913 on S.rim,
                                     T 3 S in N.half;
                                   R 30 E S 30 in NÉ,
                S 31 in SE.,
S 36 in SW., and
R 29 E S 25 in NW. quadrant;
raise a mound of stone 2 ft.base, 12 ft. high, west of
                corner. Pits impracticable.
                                                                   No old cor. found.
           Land, mountainous.
           Soil, rocky, 4th rate.
           Timber, scattering cedar and pinon.
           Undergrowth, scrub oak, catclaw and mesquite.
                                                                    Feb. 4, 1914.
           Feb. 5, 1914.
           North, bet. secs. 25 and 30.
           Along steep rocky east slope, through dense undergrowth.
7•35
14•90
           Gulch, course SE. Ascend S. slope, 525 ft.
           Trail, brs.E. and W.
20.00
           Top of mridge, bra. NW. and SE.; descend NE slope, 70 ft.
27.35
36.15
           Gulch, course SE.; ascend SE. slope.
           Foot of cliffs, 100 ft.high, br. NE. and SW.
37.00
38.53
           Top of cliffs.
           Fall 17 lks.E. of a stone 48x12x7 ins. laying on the ground, marked \frac{1}{4}, no mound of stone or B Ts.
                  stroy the marks on this stone.
           Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished \( \frac{1}{4} \) sec.cor., markedon
40.00
                  brass cap,
                                      1913 on S.rim,

$\frac{1}{4}$ S 25 on W., and
           S 20 on W., and
S 30 on E.half; from which,
A p\( \text{pnon}, 6 \) ins. in diam., brs.N.63°E., 23 lks.
dist., marked \( \frac{1}{4} \) S 30 B T.
A pinon, 8 ins. in diam., brs.N.23\( \frac{1}{2} \) W., 21 lks.
dist., marked \( \frac{1}{4} \) S 25 B T.

Top of ridge, brs.E.and W., 400 ft.abbve gulch; descend rocky, cliffy, broken N. slope, 990 ft. to creek.
Trail. brs. NW. and SE.
41.00
54.86
           Trail, brs. NW and SE.
                                                                  Feb. 5, 1914.
           Feb.7, 1914
           Sycamore Creek, 5 lks.wide, clear water, rocky bottom, flows east; ascend S. slope.
Trail, brs.NE. and SW.; ascend along east slope.
62.25
66.25
           Draw, course SE. Ascend SW. slope.
75.40
           Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 19,24,
                 25 and 30, marked on brass cap,
                                     1913 on S.rim,
                                    T 3 S in N.half;
R 30 E S 19 in NE.,
                                    S 30 in SE.,
S 25 in SW., and
R 29 E S 24 in NW.quadrant;
                                                                                     from which,
                               An oak, 8 ins. in diam., brs.N.24°E.,24 lks. dist., marked T 3 S R 30 E S 19 BT.

A pinon, 7 ins. in diam., brs.S.39°E.,58 lks. dist., marked T 3 S R 30 E S 30 B T.

A pinon, 10 ins. in diam., brs.S.25½°W., 29 lks.dist., marked T 3 S R 29 E S 25 B T.
                               An oak, 7 ins. in diam., brs.N.39°W.,48 lks. dist., marked T 3 S R 29 E S 24 B T.
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Resurvey 5th Guide Mer East through T. 3 S. bet Rs 29 and 30 E
Chains
           No old cor. found.
           Land, mountainous.
           Soil, rocky, 4th rate.
           Timber, pinon, cottonwood, fir and cedar.
           Undergrowth, scrub oak, manzanita, cacti, mesquite and
                catclaw.
                                                                  Feb. 7, 1914.
           February 11, 1914: At 9h. 15m. a.m.l.m.t., I set off 33° 09' N. on the lat.arc; 14°07'S on the decl.arc; and
                  determine a true meridian with the solar at the fe-
                  established cor. of secs. 19,24, 25 and 30.
           Thence I run,
           North, bet. secs. 19 and 24. Ascend rocky SW. slope, through scattering timber and
                dense undergrowth.
 1.00
           Foot of cliff, brs. E. and W., 50 ft.high.
1.30
11.72
           Top of cliff; ascend SE slope.
           Set flag at this point for triangulation over cliff.

From a point on line on top, of cliff, I lay off a base line S.40°14' W., 4.09 chs. by stadia, to a point from which the flag brs. S.68° 13'E. The dist. from flag to triangulation point on top of cliff is therefore

sine 71°33' x 4.09 = 4.18 chs., which added to sine 68° 13
                11.72 chs.=
          Triangulation point on top of perpendicular cliff, 160 ft.
15.90
          high, brs.E. and W.; ascend S. slope.

Rocky spur ridge, slopes NE., 605 ft. above sec.cor. Be-
yond this point, chaining is impossible owing to broken
18.00
                cliffs sloping east; therefore, I take stadia meas-
                urement to rod on line north of cliffs. Rod reading,
                1.290 ft. Ratio, 1 ft. = 2.00 chs. Focal constant, 1.025 ft. Level. The distance to rod is therefore 2x 1.290 plus .016 = 2.60 chs., which added to 18.00
20.60 Rod point on rocky point; descend NE slope.
24.00 Ridge, brs.NE and SW.; descend NW slope.
40.00 Set ann iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished sec.cor., marked on
                brass cap,
                                    1913 on S.rim,
S 24 on W., and
S 19 on E.half; from which,
                           A juniper, 5 ins. in diam., brs.S.9°E., 74 lks. dist., marked ½ S.19 B T.

An oak, 7 ins. in diam., brs.S.54°W., 85 lks. dist., marked ½ S 24 B T. No old corefound.
48.00 Gulch, course NE., 365 ft.below 20.60 chain point; ascend SE. slope.
           Ascend S. slope.
52.00
           Ridge, brs. NE. and SW.; ascend SW. slope.
58.00
           Ridge, brs. NW. and SE., 240 ft. above gulch; descend N.
64.00
                  slope.
           Head of a draw, course NE:; descend NE: slope. Head of a draw, course E., 195 ft.below ridge; ascend SE.
70.75
79.00
                slope, 20 ft.to
                e of beach, brs.NE. and SW. Set an iron post, 3 ft. long, 3 ins. in diam., 10 ins. in the ground, supported
00.08
           Edge of bench, brs.NE. and SW.
                byta mound of stone, for resitablished cor. of secs. 13, 18,
                19a and 24, marked on brass cap,
                                    1913 on S.rim,
T 3 S in N.half;
R 30 E S 18 in NE.,
S 19 in SE.,
S 24 in SW.; and
R 29 E S 13 in NW.quadrant; from which,
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10. Resurvey 5th. Guide Mer. E. thro. T. 3 S. bet. Rs. 29 and 30 E.
Chains
                                  A pinon, 8 ins. in diam., brs.N.65½°E.,139 lks. dist., marked T 3 S R 30 E S 18 B T.

A juniper, 5 ins. in diam., brs.S.6½°E.,261 lks.dist., marked T 3 S R 30 E S 19 B T.

A juniper, 10 ins. in diam., brs.S.29½°W.,193 lks.dist., marked T 3 S R 29 E S 24 B T.

A cedar, 8 ins. in diam., brs.N.32½° W.,201 lks.dist., marked T 3 S R 29 E S 13 B T.

found.
             No old cor. found.
             Land, mountainous.
             Soil, rocky, 4th rate.
             Timber, juniper, pinon and oak.
             Undergrowth, scrub oak, manzanita and cacti.
                                                                            February 11, 1914.
             Feb. 12, 1914.
             North, bet. secs. 13 and 18.
             Over rolling, recky bench, through scattering timber and
                    dense undergrowth.
            Leave bench, brs. NE and SW.; prospect shaft brs. E. about 75 lks.dist.; descend NN. slope.
Silver Creek, 4 lks.wide, flows E.; clear water. 550 ft.
 8.00
23.30
            below sec.cor.; ascend up gulch, Adobe house brs.west, 25 lks.dist. Rock corral brs.E. 25 lks.dist.
25.20
26.75
             Ascend SW · slope.
28.00
             Wash, course SW.
                                               Ascend S. slope.
32.00
38.00
            Spur ridge, shopes SE.; ascend SE. slope.
            Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground, supported by a mound of stone, for rees-tablished \( \frac{1}{4} \) sec.cor., marked on brass cap,
40.00
                                         1913 on S.rim,
                                   $\frac{1}{4}$ S 13 on W., and S 18 on E.half; from which, A juniper, 10 ins. in diam., brs.S.1\frac{1}{2}\text{o}W.,316 lks.dist., marked \frac{1}{4}$ S 13 B T.
                                                                       Raise a mound of stone 2
             No other trees within limits.
                  ft.base, la ft. high, west of cor. Pits impracticable.

A granite stone 12x12x8 ins. above ground,

marked 4 on W.face, with a mound of stone

on the W.,brs.N.54047 W.,221 lks.dist.
             I destroy this old cor.
42.00
             Wash, course SE.
             Spur brs.SE.; thence along east slope. Wash, course E.; ascend SE. slope. Gulch, course SE.; ascend S. slope.
45.00
52.00
62.00
72.50
            Enter rolling bench, brs. NE. and SW., 750 ft. above Silver
                  Wreek.
            Set an iron post 3 ft. long, 3 ins. in diam., 24 ins.
80.00
                    the ground, for the reestablished cor. of secs. 7,12,
                    13 and 18, marked on brass cap,
                                         1913 on S.rim,
T 3 S in N.half;
R 30 E S 7 in NE.,
                                         s 18 in se.,
             S 13 in SW., and
R 29 E S 12 in NW. quadrant; from which,
A juniper, 8 ins. in diam., brs.S.13°E.,189
lks.dist., marked T 3 S R 30 E $ 18 B T.
A juniper, 10 ins.in diam., brs.S.2½°W.,243
lks.dist., marked T 3 S R 29°E S 13 B T.
No other trees wihin limits. Pits impracticable.
             Raise a mound of stone 2 ft.base, 12 ft. high, west of cor.
                                   A stone 10x10x12 ins.above ground; marked
                                           with 4 notches on the S?and 2 notches on the N.edge, with a mound of stone on the W., brs. N. 46°45 W., 356 lks.dist.from above
                                      ..., I destroy this old cor.
              corner.
            Land, mountainous.
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Soil, rocky, 4th rate.

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Resurvey of 5th Guide Mer. E. thro. T. 3 S. het. Rs. 29 and 30
               Timber, scattering juniper, cedar and pinon.
Undergrowth, dense scrub oak, catclaw, mesquite and cacti.
Feb. 12, 1914
               March 6, 1914: At 9h. 15m. a.m., l.m.t., I set off 33° 10½ N. on the lat.arc; 5°47'S. on the decl.arc; and determine a meridian with the solar at the reestablished
                      cor. of secs.7,12,13 and 18.
               Thence I run,
               North, bet. secs.7 and 12.

Over rolling bench, sloping south, through dense under-
               growth and scattering timber.
Ascend S. slope of Walker's Butte.
4.00
               Foot of cliff, 60 ft.high, brs.E. and W.
30.00
               Top of cliff.
Top of Walker's Butte, 1130 ft. above sec.cor., brs.E. and
31.00
37.00
                      e: March 6, 1914: At this point, I set off 5^{\circ}44\frac{1}{2}'s. on the declearc; and at apparent noon, tobserve the sun on the meridian; the resulting late is 33° 11' N.
               Note:
              Descend north slope, 1490 ft. to sec.cor.

Set an iron post 3 ft.long, 1 in. in diam., 25 ins. in the ground, for reestablished 4 sec.cor. marked on
40.00
                     brass cap,
                                                1913 on S.rim, \frac{1}{4} S 12 in W., and S 7 in E.half; from which,
                                         An oak, 6 ins. in diam., brs.S.2°E. 41 lks. dist., marked \(\frac{1}{4}\) S.7 B T.

An oak, 6 ins. in diam., brs.N.60\(\frac{1}{2}\)°W.,72 lks. dist., marked \(\frac{1}{4}\) S.12 B T.
               No old corner found.
             Set an iron post 3 ft.long, 3 ins. in diam., 10 ins. in the ground, supported by a mound of stone, for reestablished cor. of secs. 1,6,7 and 12, marked on brass cap,
80.00
                                                1913 on S.rim,
                                                T 3 S in N.half;
R 30 E S 6 in NE,
S 7 in SE.,
S 12 in SW., and
R 29 E S 1 in NW.quadrant; from which,
              A juniper, 6 ins. in diam., brs.S.3 W., 77
lks.dist., marked T 3 S R 29 E S 12 B T.

No other trees within limits; no old cor. found. Raise
a mound of stone 2 ft. base, laft. high, west of cor.
               Pits impracticable.
              Land, mountainous.
               Soil, rocky, 4th rate.
               Timber, scattering juniper, oak and pinon. Undergrowth, dense scrub oak, mesquite and cacti.
                  North, bet. secs.1 and 6.
               Over, rocky land, through scattering timber and dense
              undergrowth.

Descend 550 ft. to Sardine Creek.

Gulch, course NW.; descend along west slope.

Spur ridge, slopes NW.; descend N. slope.

Sardine Creek, 8 lks.wide, 4 ins. deep, clear water, gravel bottom, flows E. Ascend S. slope, 175 ft.to

Spur ridge, slopes SE.; descend NE. slope, 30 ft.to draw.

March 6, 1914.

Note: March 7, 1914: At this point, at 8h.15m.a.m., l.m.

t., I set off 33° 11½ N. on the lat.arc; 5°24½ S. on the decl.arc; and determine a meridian with the solar.
                     undergrowth.
13.00
25.00
30.00
36.00
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12. Resurvey of 5th. Guide Meridian E. thro. T. 3 S., bet. Rs. 29% 30 E.
Chains
40.00
           Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished \( \frac{1}{2} \) sec.cor., marked on
                  brass cap,
                                        1913 on S.rim,
                                        1 S 1 on W., and
                                        S 6 on E.half; from which,
                                 A pinon, 8 ins.in diam., brs. S. 55\frac{1}{4}\cdot E., 88 lks.

dist., marked \frac{1}{4}\cdot S & 6 B T.

A cedar, 6 ins.in diam., brs. S. 12\cdot W., 32 lks.

dist., marked \frac{1}{4}\cdot S & 1 B T.
            No old corner found.
40.10
            Draw, course SE.; ascend SW. slope, 490 ft.to
53.00
59.30
            Ridge, brs. NW. and SE.; descend NE. slope, 145 ft. to
            Canyon, course SE.; ascend south slope. Ascend SE. slope.
67.00
77.03
           Fall 106 lks.west of a cedar tree, 24 ins. in diam., an 8 inch limb of which is marked T ii S R XXX E S XXXI. I
                                                                    I destroy the marks on
                 could not find marked stone.
                 this tree.
           Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for the reestablished cor. of Ts. 2 and 3
80.00
                 S., Rs. 29 and 30 E., marked on brass cap,
1913 on S.rim,
T 2 S in N.,
                                      R 30 E in E.,
                                      T 3 S in S. and
                                      R 29 E in W.half;
                                      S 31 in NE.,
S 6 in SE.,
                                      S 1 in SW., and
S 36 in NW.quadrant; from which,
                              A cedar, 6 ins. in diam., brs.N.74°E.,175 lks.

dist., marked T 2 S R 30 E S 31 B T.

A pinon, 6 ins. in diam., brs.S.642°E.,130 lks.

dist., marked T 3 S R 30 E S 6 B T.

A cedar, 6 ins. in diam., brs.S.47°W., 35 lks.

dist., marked T 3 S R 29 E S 1 B T.

A cedar, 6 ins. in diam., brs.N.7632°W.,60 lks.

dist., marked T 2 S R 29 E S 36 B T.
            Land, mountainous.
            Soil, rocky, 4th rate.
            Timber, mostly scattering, with patches of heavy pinon,
                 cedar and oak.
            Undergrowth, dense cacti, scrub oak, mesquite and catclaw.

March 7,1914.
            Resurvey of 5th.Guide Mer.E., thro.T.2 S., bet.Rs.29 & 30 E
                                 ·
·
           March 12,1914: At 9h.20m.a.m., l.m.t., I set off 33°12'N. on the lat.arc; 3°26½'S. on the decl.arc; and determine a meridian with the solar at the reestablished cor. of Ts. 2 and 3 S., Rs.29 and 30 E.
            Thence I run,
            North, bet, secs. 31 and 36.
           Over rocky land, through scattering timber and dense undergrowth. Ascend SE. slope, 625 ft. to
Ridge (west end of Pat. Mountain) brs.E. and W.; descend
18.00
                 N. slope, 285 ft.
            Trail, brs. NW. and SE.
20.00
            Gulch, course NW.; ascend SW. slope, 205 ft.

Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground, for reestablished a sec.com., marked on brass
38.00
40.00
                                      1914 on S.rim,
                                      $ 36 on W., and $ 31 on E.half; from which,
                                 A juniper, 16 ins.in diam., brs.S.72°E.,110
                                      lks.dist., marked 4 S 31 B T.
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Resurvey 5th Guide Mer. E. thro. T. 2 S. bet Rs. 29 and 30 E.
Chains |
               A juniper, 12 ins. in diam., brs.N. 42\frac{1}{2}°W.,96 lks.dist, marked \frac{1}{4} S 36 B T.

The old \frac{1}{4} sec.cor., a stone 12x6x8 ins., above ground,
                      marked and witnessed as described by the Surveyor Gen-
                      eral, brs.S.25° 58 E., 4.79 chs.dist. I destroy this
                      old cor.
               Top of ascent; continue along west slope.

Descend NW. slope, 50 ft.to

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for the reestablished cor. of secs. 25,30,31
56600
64.00
80.00
                      and 36, marked on brass cap,
                                                 1914 on S.rim,
                                                 T 2 S in N.half;
                                                 R 30 E S 30 in NE.,
                                        R 30 E S 30 in NE.,
S 31 in SE.,
S 36 in SW., and
R 29 E S 25 in NW.quadrant; from which,
An oak, 9 ins. in diam., brs.N.67°E., 174 lks.
dist., marked T 2 S R 30 E S 30 B T.
A juniper, 36 ins. in diam., brs.S.85°E.,120 lks.
dist., marked T 2 S R 30 E S 31 B T.
An oak, 8 ins. in diam., brs.S.83½°W.,49 lks.
dist., marked T 2 S R 29 E S 36 B T.
A juniper, 24 ins. in diam., brs.N.54½°W.,151
lks.dist., marked T 2 S R 29 E S 25 B T.
found.
                No old cor. found.
                Land, mountainous.
                Soil, rocky, 4th rate.
Timber, mostly scattering, with patches of heavy juniper,
                       oak, pinon and cedar.
                Undergrowth, dense scrub oak.
                 North, bet. secs.25 and 30,
                Over rocky land, through dense undergrowth and scattering
                       timber.
               Descend NW. slope, 600 ft.to canyon.
Descend N. slope.
Bottom of H L Canyon, course E. Ascend SE. slope, 150 ft.
21550
37•50
                       to ridge.
                Set an iron post 3 ft.long, 1 in. in diam., 20 ins. in the ground, supported by a mound of stone, for reestab
40.00
                       lished ½ sec.cor., marked on brass cap, 1914 on S.rim,
                                        1914 on S. Pim,

$\frac{1}{4}$ S 25 on W., and
$$ 30 on E.half; from which,

A juniper, 14 ins. in diam., brs. N. 66°E., 21

lks.dist., marked $\frac{1}{4}$ S 30 B T.

An oak, 8 ins. in diam., brs. S. 14°W., 10 lks.

dist., marked $\frac{1}{4}$ S 25 B T.
                No old corner found.
                Rocky spur ridge, slopes E.
                                                                               Set instrument at this point
 44.22
                and take stadia measurement across rocky box canyon, course NE. from SE. Rod reading 6.825 ft. Ratio, 1 ft. 2.00 chs. Focal constant, 1.025 ft. Vertical angle plus 5° 50'; therefore, the distance to rod is. .9897 x 2 x 6.825 plus .016 = 13.57 chs., which added to
                       44.22 chs.
                Rod point on the SE slope of ridge; ascend SE slope.
 57.79
                Ridge, brs.NW. and SE.
                                                                                     March 12, 1914.
                March 12, 1914.

March 13, 1914: At 7h.30m. a.m., l.m.t., I set off 33° 13½ N. on the lat.arc; 3° 5° S. on the decl.arc; and determine a meridian with the solar at this point.

Trail, brs.NE. and SW. Descend NW. slope, 475 ft.to
Gulch, course NE.; ascend SE. slope.

Set an iron post 3 ft.long, 3 ins. in diam., 6 ins. in the ground, supported by a mound of stone, for the reestablished cor.of secs. 19, 24, 25 and 30, marked on brass can.
60.45
79.20
80.00
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on brass cap,

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14. Resurvey of 5th Guide Mer. E., thro. T. 2. S., bet. Rs. 29 and 30 E
 Chains.
                                            1914 on Serim,
                                            T 2 S in N.half;
                                            R 30 E S 19 in NE;
                                            S 30 in SE.,
S 25 in SW., and
R 29 E S 24 in NW. quadrant; from which,
                                     An oak, 6 ins. in diam., brs. N.2°E., 82 lks. dist., marked T 2 S R 30 E S 19 B T.

A juniper, 6 ins. in diam., brs. S. 80°E., 21 lks. dist., marked T 2 S R 30 E S 30 B T.

An oak, 8 ins. in diam., brs. S. 23<sup>2</sup> W., 30 lks. dist., marked T 2 S R 29 F 3 25 B T.
                                      dist., marked T 2 S R 29 E S 25 B T.

A juniper, 10 ins. in diam., brs. N. 47°W., 56 lks. dist., marked T 2 S R 29 E S 24 B T.

A stone, 18x12x3 ins/above ground, marked add witnessed as described by the Surveyor General, brs. S. 51°24 E., 9.56 chs. dist.
              I destroy this old conner.
              Land, mountainous.
              Soil, rocky, 4th rate.
              Timber, scattering, with patches of heavy juniper, oam and
                  pinon.
              Undergrowth, dense scrub oak.
              North, bet. secs. 19 and 24. Over rocky land, through scattering timber and undergrowth.
              Ascend rolling SE. slope, 290 ft.to
25.00
34.25
             Top of ascent; descend NE. slope, 200 ft.to
             Gulch, course SE.; ascend S. slope, 130 ft.to ridge. Set an iron post, 3 ft.long 1 in in diam., 26 inst in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked on
40.00
                    brass cap,
                                            1914 on S.rim,
                   $ 24 on W., and
$ 19 on E.half;
raise a mound of stone, 2 ft. base, 12 ft. high, west
                                            Pits impracticable. No trees within limits.
                    of corner.
              No old corner found.
             Ridge, brs.E. and W. Descend NW. slope, 320 ft.to
Canyon, course NE. Ascend SE. slope, 195 ft.to
Top of spur ridge, slopes E.; descend NE. slope, 110 ft.to
Gulch, course NE. Ascend SE. slope.
Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
the ground, for the reestablished cor. of secs. 13,18,
19 and 24 marked on brass can
41.00
53.00
72.00
78-00
80.00
                    19 and 24, marked on brass cap,
                                           1914 on S.rim,
T 2 S in N.half;
R 30 E S 18 in NE.,
                                            S 19 in SE.,
             S 19 in SE.,
S 24 in SW., and
R 29 E S 13 in NW. quadrant; from which,
A pinon, 8 ins. in diam., brs.S.864°E., 221
lks.dist., marked T 2 S R 30 E S 19 B T.
A pinon, 10 ins. in diam., brs.S.684°W.,202
lks.dist., marked T 2 S R 29 E S 24 B T.
No other trees within limit; raise a mound of stone 2
                     ft.base, la ft. high, west of cor. Pits impracticable. No old corner found.
                     ble.
             Land, mountainous. Soil, rocky, 4th rate.
             Timber, scattering pinon, juniper and oak.
             Undergrowth, scattering scrub oak and cacti.
             North, bet. secs. 13 and 18.
             Over rocky land, through scattering timber and undergrowth.
             Ascend SE. slope, 70 ft. to
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Resurvey of 5th Guide Mer. E. thro T. 2 S. bet Rs. 29 and 30 E.
Chains
               Top of ascent; descend gradually over rolling bench,
  6.00
                      drains NE.
               Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished \( \frac{1}{2} \) sec.cor., marked on brass cap, 1914 on S'rim,
40.00
                                       1914 on S Pim,

$\frac{1}{4} \text{S 13 on W., and} \

$\text{S 18 on E.half; from which,} \\

A juniper, 6 ins. in diam., brs. E. 89 lks. dist., marked $\frac{1}{4} \text{S 18 B T.} \\

A pinon, 6 ins. in diam., brs. S. 69\frac{1}{2} \text{OW.,138} \\

lks. dist., marked $\frac{1}{4} \text{S 13 B T.} \\

\text{per found.}
               No old corner found.
                            March 13, 1914:
                                                                  At this cor., I set off 5^{\circ} 00\frac{1}{2}'S.
               Note:
               on the declearc; and at apparent noon, I observe the sun on the meridian; the resulting late is 33° 15'N. Wash, 40 lks.wide, course NE., 350 ft.below 6.00 chain point; continue over rolling, rocky land, drains NE.
43.75
               Set an iron post 3 ft.long, 3 ins. in diam., 12 ins. in the ground, supported by a mound of stone, for the reestablished corner of secs.7,12,13 and 18, marked
80.00
                   on brass cap,

1914 on S.rim,
                                                T 2 S in N.half;
                                                R 30 E S 7 in NÉ.,
S 18 in SE.,
                                       S 13 in SW., and
R 29 E S 12 in NW. quadrant; from which,
A pinon, 8 ins. in diam., brs.S.49°E., 126
lks.dist., marked T 2 S R 30 E S 18 B T.
A cedar limb, 6-ins. in diam., brs.S.15½°W.,
88 lks.dist., marked T 2 S R 29 E S 13 B T.
               No other trees within limits.
               Raise a mound of stone 2 ft.base, 12 ft. high, west of
               corner. Pits impracticable.
A stone 20x14x6 ins.in a mound of stone, marked 4 notches
                      on the S. and 2 notches on the N. edger, brs.S.57°10'E.
                      13.60 chs. dist.
                                                              I destroy this old cor.
               Land, rolling.
               Soil, rocky, 4th rate.
Timber, scattering cedar and pinon.
               Undergrowth, scattering scrub oak and cacti.
               North, bet. secs.7 and 12.
North, bet. secs.7 and 12.

Over rolling, rocky bench land, drains NE.

South edge of rocky box canyon, course NE., over which
I cannot chain; therefore, set instrument at this
point, and take stadia measurement. Rod reading, 1.960
ft. Ratio, 1 ft. = 2 chs. Focal constant, 1.025 ft.
Level. The distance to rod is therefore 2x 1.960
plus .016 = 3.94 chs., which added to 8.76 chs. =

Rod point on rocky ledge, brs.E. and W., 15 ft. high.

March 13. 1914.
                                                                               March 13, 1914.
               March 14, 1914. At 7h. 45m. a.m., l.m.t., I set off 33° 16' N. on the lat.arc; 2°40'S. on the decl.arc; and determine a meridian with the solar at this point.
               Trail, brs. E. and W.
14.00
15.00
               Dry bed of Pigeon Creek, . 20 lks.wide, course E.
               Trail, brs.E. and W. Ascend S. slope of mountain, 795 ft.to
16.00
               Ridge, brs.E. and W.

Set an iron post, 3 ft.long, 1 in. in diam., 4 ins. in
the ground, supported by a mound of stone, for rees-
tablished 4 sec.cor., marked on brass cap,

1914 on S?rim,
40.00
                                                \frac{1}{4} S 12 on W., and S 7 in E.half; from which,
               A cedar, 8 ins. in diam., brs.S.3620W.,113
lks.dist., marked 1 S 12 B T.

No other trees within limits. Pits impracticable. Raise
                      a mound of stone 2 ft.base, 12 ft. high, W. of cor.
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16. Resurvey of 5th Guide Mer E. thro T.2 S. Rs 29 and 30 E
Chains.
            No old corner found,
            Descend NE. slope, 775 ft.to
Cow Creek, a small stream of water, 4 lks.wide, 3 ins.
64.30
                  deep; clear water, flows SE. Ascend SW. slope. Ascend
                  480 ft. to corner.
73.00
80.00
            Ascend south slope.
            Set an iron post 3 ft.long, 3 ins. in diam., 20 ins. in the ground, supported by a mound of stone, for the reestablished cor. of secs. 1,6,7 and 12, marked on
                 brass cap,
                                        1914 on S.rim,
                                        T 2 S in N.half;
R 30 E S 6 in NE.,
S 7 in SE.,
                                        S 12 in SW.
                                                              and
            R 29 E S 1 in NW. quadrant; from which,
A cedar limb, 6 ins. in diam., brs.N.852°E.,
106 lks.dist., marked T 2 S R 30 E S 6 B T.
A cedar limb, 6 ins. in diam., brs.S.54°W.,
127 lks.dist., marked T 2 S R 29 E S 12 B T.
No other trees within limiys. Pits impracticable.
Raise a mound of stone 2 ft. base. 17 ft. high, west of
            Raise a mound of stone 2 ft. base, 1\frac{1}{3} ft. high, west of
                 corner.
             No old corner found.
            Land, rolling and mountainous. Soil, rocky, 4th rate.
            Timber, scattering cedar, oak, juniper, and sycamore.
            Undergrowth, dense scrub oak and cacti.
              North, bet. secs.1 and 6.
             Through scattering timber and dense undergrowth. Ascend
            S.slope, 535 ft.to
Ridge, brs.E. and W.; descend N. slope, 110 ft.to gulch.
Set an iron post, 3 ft.long, 1 in. in diam., 10 ins. in
36.00
                  the ground, supported by a mound of stone, for rees-
                  tablished ½ sec.cor., marked on brass cap, 1914 on S.rim,
                                         뒾 S l on W.,
                                                               and
                                         S 6 on E.half; from which,
                                A juniper, 16 ins. in diam., brs. S. 882°E., 46 lks.dist., marked ½ S 6 B T.

A juniper, 8 ins. in diam., brs. S. 73°W., 57 lks.dist., marked ½ S 1 B T.
            No old corner found.
            Gulch, course NE. Ascend SE. slope, 150 ft.to
Rocky spur ridge, slopes E. Descend NE. slope, 105 ftto
42.75
55.00
                  draw.
60.05
            Wire fence brs. E. and W.
61.00
            Head of a draw, course E.; ascend S. slope, 195 ft.to
           Spur ridge, slopes E.; descend NE slope, 170 ft.to
Set an iron post, 3 ft.long, 3 ins. in diam., 18 ins. in
the ground, supported by a mound of stone, for reestab.cor.
of Ts.l and 2 S, Rs. 29 and 30 E., marked on brass
70.00
80.00
                                        1914 on Srim,
                                        Tīs in N.,
                                        R 30 E in E.,
T 2 S in S., and
R 29 E in W.half;
S 31 in NE.,
                                        S 6 in SE.,
                                        S 1 in SW., and
S 36 in NW. quadrant; from which
                                A juniper, 36 ins. in diam., brs.N.55°E.,130 lks.dist., marked T 1 S R 30 E S 31 B T.

A juniper, 16 ins. in diam., brs.S.68½°E.,165 lks.dist., marked T 2 S R 30 E S 6 B T.

A juniper, 16 ins. in diam., brs.S.70½°W.,156 lks.dist., marked T 2 S R 30 E S 6 B T.
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lks.dist., marked T 2 S R 29 E S 1 B T.

Resurvey of 5th Guide Mer. E. thro. T. 2S. het Rs. 29 and

Chains.

A juniper, 32 ins. in diam., brs.N.41°W.,90 lks.dist, marked T 1 S R 29 E S 36 B T.

The old township cor., marked and witnessed as described by the Surveyor General, brs.S.40°49 E.,15.82 chs.dist. I destrou this old cor. The magnetic decl. of the true meridian, at 2h.30m.p.m., is 13°E. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering, with patches of heavy muniper, pinon and cedar. Undergrowth, dense scrub oak, juniper and cacti.

March 14, 1914.

GENERAL DESCRIPTION.

Ts. 2 and 3 S., Rs. 29 and 30 E. are generally mountain-ous, covered with scattering timber and undergrowth, with patches of heavy timber and dense undergrowth; mostly good grazing. Drainage is to the east, towards the San Francisco River.

William B. Kimmel, U. S. Surveyor.

Resurvey of the Gila and Salt River Base Line, through Range 28 East.

Resurvey commenced April 4, 1914, and executed with Young and Sons Light Mountain Transit No.8541.

Knowing from recent and repeated tests of my instrument Knowing from recent and repeated tests of my instrument on a meridian established by observations on Polaris at elongation, that it is in correct adjustment, I proceed to the retracement of the south bdy. of sec. 36, T. 1 N., R. 28 E., to determine the error of closure in sec. 1, T.1 S., R. 28 E.

I begin at the original standard cor. of Tp.1 N., Rs. 28 and 29 E. Lat. 33° 22' 33" N.; long. 109° 23' 46" W., which is an iron post, 4 ins. in diam., marked and witnessed as described by the Surveyor General, where At 7h. 58m. a.m., l.m.t., I set off 33° 22½ N. on the lat. arc; 5°33 N. on the decl. arc; and determine a meridian with the solar.

Thence I retrace,

Thence I retrace,

West, along the south bdy. of sec. 36, T.1 N., R. 28 E. 79.18 The original standard \$\frac{1}{4}\$ sec.cor., which is a granite stone, 14x9x8 ins. above ground, marked and witnessed as described by the Surveyor General.

Fall 1 link south of the original standard corner of secs. 35 and 36, which is an iron post, 4 ins. diam., marked and witnessed as described by the Surveyor General.

No subdivisional lines, or mineral claims having been tied to the Base Line through this range; therefore, I return to the original standard cor. of Ts.1 N., Rs. 28 and 29 E., and resurvey this line, destroying old cors. and reestablishing standard \(\frac{1}{4} \) sec.cors.

at intervals of 40 chs.

West, on the south bdy.of sec.36.

Along north slope, through heavy timber and dense under-

4.20 Ascend NE. slope, 140 ft.to

13.20 39.71 Ridge, brs.NW. and SE. Descend SW. slope, 485 ft. The original standard $\frac{1}{4}$ sec.cor. I destroy all trace of

bearing trees; remove the stone, and at

```
18. Resurvey of the Gila & Salt River Base Line thro R. 28 E.
Chains.
            Set the same stone, 26x12x8 ins., 20 ins. in the ground, for reestablished standard \frac{1}{4} sec.cor., marked B L \frac{1}{4} on
40.00
                  N.face; from which,

A pine, 10 ins. in diam., brs.N.49 E.,83 lks.

dist., marked SC & S 36 B T.

A pine, 6 ins. in diam., brs.N.26 W.,40 lks.

dist., marked SC & S 35 B T.
            Gulch, course NW. Ascend slight NE. slope, to Spur ridge, brs.N. Descend slight NW. slope, to Draw, course N. Ascend E. slope, 225 ft.to
43.20
45.20
47.00
57.00
60.00
65.40
             Thence along south slope, to
             Descend NW. slope, 85 ft.to
             Draw, course N. Ascend NE. slope, 130 ft. A point 1 link S. of the original standard cor. of secs.
79.18
                   35 and 36.
             I remove the iron post from its position, destroy all
             trace of the cor. at this point, and at
Set the same post, 30 ins. in the ground, for reestablished standard cor. of secs.35 and 36, marked on brass cap,
U.S.Forest Reserve Edy.Post.
80.00
                              No•7
1902
                                                                   on S. side of cap,
                                                                    on S.side of rim,
                             RESERVE
                                                                  in NE.and NW.quadrants;
                                       Also marked,
                             BL
                                                                    on N.side of rim,
                             T 1 N S 36
R 28 E S 35
                                                                    in NE.quad.onrim,
                                                                   in NW.quad.on rim,
                    with 1 notch on E. and 5 notches on W.edge of rim,
                              which,
                    from
                                   A juniper, 20 ins. in diam., brs.N.77°E.,157 lks.dist., marked S C T 1 N R 28 E S 36BT. A juniper, 10 ins.diam.,brs.N.55\frac{3}{4}\text{OW.,136 lks.} dist.,marked S C T 1 N R 28 E S 35 B T.
             Lahd, hilly and mountainous. Soil, rocky 4th rate.
            Timber, dense juniper, pine, oak and cedar. Undergrowth, dense scrub oak. Mountainous land, 58 chs.
             West, on the south bdy.of sec. 35.
             Through scattering timber and undergrowth. Along north
                   slope to
18.00
             Descend west slope, 280 ft.to
             Gulch, course N. Ascend E. slope, 215 ft.to Thence over level land.
29.00
37.00
38.46
             The original standard \(\frac{1}{4}\) sec.cor., which is a malpais stone \(28\text{x}\)12 ins., in a mound of stone, marked and witnessed as described by the Surveyor General.
             I remove the stone, destroy the markings on the bearing
                                 and at
                     trees
             Set the same stone, 21 ins. in the ground, for reestabalished standard \( \frac{1}{4} \) sec.cor., marked
40.00
                                         B L \frac{1}{4} on N. face; from which,
                                   A junier, 10 ins. in diam., brs.N.674°E.,192

lks.dist., marked S C & S 35 B T.

A juniper, 30 ins. in diam., brs.N.354°W., 307

lks.dist., marked S C & S 35 B T.
             Draw, course N. Ascend slight NE. slope, to
44.00
            Low ridge, brs. NW. and SE. Descend west slope.

At this point, the original standard cor. of secs. 34 and 35, which is an iron post 4 ins.diam., marked and witnessed as described by the Surveyor General, brs.

N. 5 lks.dist. I remove the post, destroy all trace
56.00
78.49
                   of the cor., and at
             Set the same post, 30 ins. in the ground, for reestablished standard cor. of secs. 34 and 35, marked on brass cap,
80.00
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Chains
                                     U. S. Forest Reserve Bdy. Post.
                                                                                on S. side of cap, on S. side of rim,
                         No. 6
                         1902
                                                                                in NE. and NW. quadrants.
                         RESERVE
                                                 Also marked
                                                                                 on N. side of rim,
                         T 1 N S 35
R 28 E S 34
                                                                                 in NE.quadrant on rim,
                                                                                 in NW-quad. on rim:
                   with 2 notches on E., and 4 notches on W. edge of rim,
                   from which,
                                    A juniper, 30 ins. in diam., brs.N.742°E.,236 lks.dist., marked S C T 1 P R 28 E S 35 B T.

A juniper, 28 ins. in diam., brs. N.82° W.,

331 lks.dist., marked S C T 1 N R 28 E S

34 B T.
             Note: At this cor. April 4, 1914, I set off 5° 36½ N.
on the decl. arc; and at apparent noon, I observe the
sun on the meridian; the resulting late is 33°22½ N.
Land, level, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, scattering juniper, pine and oak.
Undergrowth, scattering scrub oak on east 40 chs.
             Undergrowth, scattering scrub oak on east 40 chs.
             Mountainous land, 20 chs.
             West, on south bdy. of sec.34.

Descend SW. slope. Descend 600 ft. to Bear Canyon.

Spur ridge, brs.SW. Descend NW. slope.
20.00
38.08 At this point, the original standard & sec.cor. brs.S.3
lks.dist., which is a malpais stone, 26x12x8 ins.,
marked and witnessed as described by the Surveyor
                    General. I remove the stone, destroy all evidence of
                    the corner, and at
40.00 Set the same stone, 20 ins. in the ground, for reestablished standard \frac{1}{4} sec.cor., marked B L \frac{1}{4} on N.face;
                    from which,
                                     An oak limb, 10 ins. in diam., brs.N.76 E., 88 lks.dist., marked S C 4 S 34 B T.
                                     An-oak, 6 ins. in diam., brs. N.26°W., 26 lks. dist., marked S C & S 34 B T.
43.90 Enter Bear Canyon, course SW. 45.00 Ascend SE. slope, 270 ft.to 72.00 Thence over level land.
             The original standard cor. of secs.33 and 34, which is an iron post, 4 ins. diam., marked and witnessed as described by the Surveyor General. I remove the post, destroy all trace of the cor., and at
78.05
             Set the same post, 30 ins. in the ground, for reestab-
lished standard cor. of secs. 33 and 34, marked on
 800.00 ·
                      brass cap,
                                     U. S. Forest Reserve Bdy. Post,
                                                                     on S. side of cap,
                                                                      on S. side of rim,
                                1902
                                RESERVE
                                                                    in NE.and NW.quadrants.
                                           Also marked
                                                                      on N.side of rim,
                    T1 NS 34 in NE.quad. on rim,
R 28 E S 33 in NW.quad. on rim,
with 3 notches on E-and W.edges of rim; and raise a
mound of stone, 2 ft.base, 12 ft. high, N.of cor.
              Pits impracticable.
              Land, rolling, hilly and mountainous. Soil, rocky, 4th rate. Eimber, scattering cedar and oak.
              Undergrowth, very scattering scrub oak. Mountainous land, 44 chs.
                                                                                       April 4, 1914.
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urvey of Gila and Salt River Base Line, thro Range 28 East.

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Resurvey Gila & Salt River Base Line thro. R. 28 East.
Chains
           April 20, 1914: At 9h. 2m/ a.m., l.m.t., I set off 33° 22½ N. on the latearc; 11°23½ N. on the declearc; and de-
                termine a meridian with the solar at the reestablished
                standard cor. of secs.33 and 34, above described.
           Thence I run,
           West, on the south bdy, of sec.33.
           Over level land; no timber or undergrowth.
           Trail, brs.NE' and SW.

The original standard ½ sec.cor., which is a granite stone 28x14x10 ins., marked and witnessed as described by the Surveyor General. I remove the stone, destroy all
32.00
38.02
           trace of the cor., and at

Set the same stone, 21 ins. in the ground, for reestab-
lished standard 4 sec.cor., marked B L 4 on N.face;
₩.00
                and raise a mound of stone, 2 ft. base, 1 ft. high,
                north of eon. Pits impracticable.
           Descend NW. slope, 200 ft.
54.00
           Enter scattering timber and undergrowth, brs.N. and S? Descend W. slope, to
58.00
70.00
75.60
77.97
           Draw, course NW.
                                         Ascend NE. slope, 40 ft.to cor.
           A point 1 link south of the original standard cor. of secs.
                  32 and 33, which is an iron post, 4 ins. diam., marked
                 and witnessed as described by the Surveyor General. I remove the post, and destroy all trace of the cor., and
                  at
           Set the same post, 30 ins. in the ground, for reestab-
lished standard cor. of secs. 32 and 33, marked on brass
80.00
                                  U. S. Forest Reserve Bdy Post,
                                                             on S. side of cap,
                        No.4
                                                                on S. wide of rim,
                      - 1902
                        RESERVE
                                                                in NE. and NW. quadrants.
                                       Also marked
                                                                on N. side of rim,
                        T 1 N S 33
R 28 E S 32
                                                               in NE.quad.on rim,
                  R 28 E S 32 in NW quad on rim; with 4 notches on E. and 2 notches on W edges of rim;
                  from which,
                              An oak,8 ins. in diam., brs. N.542 E.,118
lks.dist., marked S C T 1 N R 28 E S 33 B T.
An oak,10 ins. in diam.,brs.N.25 W.,170 lks.
dist.,marked S C T 1 N R 28 E S 32 B T.
           Land, level, rolling and hilly. Soil, rocky, 4th rate.
           Timber, scattering cedar and oak.
           Undergrowth, sorub oak.
           West, on the S.bdy. of sec. 32. Through scattering timber and undergrowth. Descend NW.
                  slope, 70 ft.to
           Draw, course N. Ascend NE slope, 30 ft.to
  6.00
           Thence along N. slope, to
10.00
26.00
           Descend NW' slope, 220 ft.
           A point, l link N. of the original standard \( \frac{1}{4} \) sec.cor., which is a malpais stone, 26x14x10 ins., marked and witnessed as described by the Surveyor General. I re-
37.92
           move the stone, destroy all trace of the cor., and at Set the same stone 20 ins. in the ground, for reestablished standard \(\frac{1}{4}\) sec.cor., marked B L \(\frac{1}{4}\) on N.face; and raise a mound of stone 2 ft.base, l\(\frac{1}{2}\) ft. high, N.
40.00
                 of cor. Pits impracticable.
           Trail, brs. NE. and SW.
41.70
           Wash, course SW. Ascend SE. slope, 45 ft.to
Spur ridge, brs. SW. Descend W.slope, 35 ft.to
Draw, course SW. Ascend SE. slope, 115 ft.to
Spur ridge, brs.S. Descend SW. slope, 50 ft.to cor.
44.00
54.00
58.00
74.00
           A point 1 link N. of the original standard cor. of secs.
77.80
                  31 and 32, which is an iron post, 4 ins. diam., marked and witnessed as described by the Surveyor
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esurvey of the Gila & Salt River Base Line thro Range
 Chains.
                 General. I remove the post, destroy all evidence of the
                 corner; and at
            Set the same post, 36 ins. in the ground, for reestablished standard cor. of secs.31 and 32, marked on brass cap,
U. S. Forest Reserve Bdy. Post,
 80.00
                                                   on S. side of cap,
                          1902
                                                     on S.side of rim in NE and NW quadrants.
                          RESERVE
                                  Also marked
                                                     on N. side of rim,
                        T 1 N S 32
R88 E S 31
                                                     in ME. quad.on rim,
                                                     in NW.quad.on rim,
                 with 5 notches on E. and 1 notch on W. edge of rim; from
                 which,
                               A cedar, 8 ins. in diam., brs.N.384°E.,521 lks.dist., marked S C T 1 N R 28 E S 32 B T. A cedar limb, 10 ins. in diam.,brs.N.49°W., 221 lks.dist.,marked S C T 1 N R 28 E S 31BT.
           Land, rolling, hilly and mountainous. Soil, rocky, 4th nate. Timber, scattering cedar and oak.
           Undergrowth, scattering scrub oak. Mountainous land, 32 chs.
            West, on the south bdy. of sec.31.
            Through scattering timber and undergrowth. Descend west
                  slope, 145 ft.to
            Enter wash, course SW.
 20.00
 26.00 Leave wash; ascend SE. slope, 15 ftto 28.00 Thence over level land.
 26.00
           The original standard & sec.cor., which is a granite
 37 • 77
                 stone, 26x12x6 ins., marked and witnessed as described
           by the Surveyor General. I remove the stone, destroy all trace of the corner, and at

Set the same stone, 20 ins. in the ground, for reestablished standard 4 sec.cor., marked B L 4 on N.face;
40.00
                 and raise a mound of stone, 2 ft. base, 12 ft. high, N.
                 of corner. Pits impracticable.
            Along slight broken south slope.
 44.00
           Draw, course SW.; ascend.
Low spur ridge, brs.SW.; descend.
 48.00
           Draw, course SW.; ascend.
 50.00
           Spur ridge, brs.ŚW.; descend.
 54.00
           Draw, course S. Ascend E. slope, 50 ft.to
 58.00
            Ridge, brs. Nand S, Descend W. slope, 70 ft. to closing
 65.00
                 corner.
            A point 3 lks.north of a stone, in a mound of stone, marked H. #2 on N.face.
 76.67
           A point 1 link N. of the original standard cor. of Ts.1 N., Rs.27 and 28 E., which is an iron post, 4 ins. diam.,
 77.71
                 marked and witnessed as described by the Surveyor Gen-
                 eral.
                             I remove this post, and destroy all trace of
                 the cor.
77.80
78.86
           Trail, brs. NE. and SW. .
           Intersect the east bdy.of the White Mountain Indian Reservation, 14.06 chs. north of the 37 mile cor., reestablished by me, as described in Book "C."

At the point of intersection, set the same post, which I removed from 77.71 chain station, 30 ins. in the ground, for closing cor.of T. 1 N., R.28 E., and frac. T.1 S.m.
                R.28 E., and change marking on cap to read as follows:

T 1 N R 28 E S 31 in NE side of cap,

T 1 S R 28 E S 5 on SE side of cap,

W M I R on W side of cap,
                       B L CC on E. sude of cap,
                       RESERVE on NE. and NW. bevel;
                       U.S.F.S.bdy.Post No.2 on top, and
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1902 on S.bevel; from which,

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Resurvey of the Gila & Salt River Base Line thro R. 28 E.
Chains
                                       A cedar, 14 ins.in diam., brs.N.602°E.,495
lks.dist.,marked S C C C T1 N R 28 E S 31
              No other trees within kimits; raise a mound of stone 2 ft.base, laft. high, E. of cor. Pits impracticable. C. L. Nicol's house brs. N. 14°E., about 26 chs. dist.
              Land, rolling, level, and hilly. Soil, rocky, 4th rate.
               Timber, scattering cedar and oak.
               Undergrowth, scattering scrub oak.
               I destroy all markings on the U.S.F?S.Bdy.Post No.1, which
                       was established on the old White Mountain Indian Res-
                       ervaton Bdy., about 20 ohs. west of above described
                       closing corner.
                                                                                   April 20, 1914.
               Retracement of Third Stand. Par.S., through Range 30 East.
               Sept. 5, 1914: At 9h. a.m., l.m.t., I set off 32°4½ N. on the latearc; 6°59 N. on the decl. arc; and determine
                       with the solar a meridian at the original standard
                       cor. of T.15 S., Rs30 and 31 E., which is a stone, marked and witnessed, as described in Book "Q."
               Thence I run,
West, on a random line, on the south bdy.of sec.36.

40.12 Fall 17 lks.S. of original standard \( \frac{1}{2} \) sec.cor., which is a stone 12x6x8 ins... above ground, marked S C \( \frac{1}{2} \) on N.face; with a mound of stone N.of cor.

45.00 (40.00 chs. plus the easting of the E. bdy.of T.15 S.,R.30 E.) Set temp. standard \( \frac{1}{2} \) sec.cor.

80.10 Fall 24 lks.N. of witness cor. to standard cor.of secs.

35 and 36, which is an iron post. 4 ins. in diam. 12
                       35 and 36, which is an iron post, 4 ins. in diam.,12
                       ins. protruding from a mound of stone, marked on brass
                       cap,
                                         T 15 S S 36 on NE., and
R 30 E S 35 on NW. bevel;
U S 1905 S C W C
Post No.41 on top; (established by U.S.Geolog-
                     ical Survey).
              Set temp. standard cor. for secs. 35 and 36. Note: At this temp. cor. Sent. 5, 1911, I set off 6056 N. on the decl. arc; and at apparent noon, observe the sun on
 85.00
                     the meridian; the resulting late is 32°42'N.
               Thence I run,
               West, on random line on south bdy.of sec.35.
               No old cor. found.
Set temp.standard \(\frac{1}{4}\) sec.cor.
 35.00
40.00
              Instrument point from which I take stadia measurement across a rocky cliffy N. slope (chaining impossible.)
Rod reading, 11.638 ft. Ratio 1 ft. 2.00 chs. Focal constant, 1.025 ft. Vertical angle, +10°30'; the distance to rod is therefore 11.638 x 2 x .9668 plus .016 22.52 chs., which added to 41.25 chs. =
Rod point on top of cliffs. Thence by chain measurement.
Fall 284 lks.S. of witness cor. to standard cor. of secs.
34 and 35, which is an iron post 4 ins. in diam., 12 ins. protruding from a mound of stone, marked on brass cap,
 41.25
                      brass cap,
T 15 S S 35 on NE., and
R 30 E S 34 on NW. bevel;
US FOREST RESERVE SCWC RESERVE POST NO.42
                                            1905 on top. (Established by U.S.Geological
                                            Survey.)
 80.00 Set temp. standard cor. of secs. 34 and 35.
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Sept.5,1914.

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Retracement of Third Stand, Par. South thro. Range 30 East.
Chains
                 Sept.7,1914: At 9h.40m. a.m., l.m.t., I set off 32°4½'N.

on the lat.arc; 6914'N.on the decl.arc; and determine
with the solar a meridian at the temp. standard cor.

of secs.34 and 35.

Thence I run.
                  Thence I run,
                 West, on random line, on south bdy.of sec.34.
Instrument point for stadia measurement across a rocky
   5-33
                           eliffy south slope (chaining impossible). Rod reading 9.536 ft.; ratio, 1 ft. 2.00 chs. Focal constant, 1.025 ft. Vertical angle plus 2°; the distance to red is therefore, 9.536 x 2 x .9988 plus .016 = 19.16 chs. which added to 5.33 chs. =
24.49 Rod point on spur brs.SE. The 37.69 No old corner found.
40.00 Set temp.standard 4 sec.cor.
                                                                                 Thence by chain measurement.
40.21 Instrument point for stadia measurement across a rocky
eliffy menth slope (chaining impossible.) Rod reading, 4.465 ft. Ratio, 1 ft. = 2.00 chs.; angle of depression = 6° Focal constant, 1.025 ft.; the distance to rod is therefore, 4.465 x 2 x .9891 plus .016 & 8.85 chs., which added to 40.21 chs. =
                Red point en recky peint slopes N. Set instrument atthis point, and take stadia measurement across broken eliffy N. slepe (chaining impossible. Red reading, 10.391 ft., ratio, 1 ft.= 2.00 chs. Focal constant, 1.025 ft. Angle of depression -2°; the distance to red is therefore 10.391 x 2 x .9988 plus .016 = 20.77 chs., which added to 49.06 chs. =

Rod point en recky point slopes NE. Set instrument at this point, and take stadia measurement across broken rocky. cliffy N. slope (chaining impossible.) Red
 69.83
                           rocky, cliffy N. slope (chaining impossible.) Rod reading 6.205 ft., ratio 1 ft. = 2.00 chs. Fecal constant, 1.025 ft. Angle of depression = 14° 30°. The
distance to rod is therefore, 6.205 x 2 x .9373 plus
.016 = 11.65 chs., which added to 69.83 chs. =
81.48 Rod point on rocky spur slopes N. Thence I return east
1.48 chs.te
                 Where I set temp. standard cor. for secs.33 and 34. No
 80.00
                            eld cor. found.
                 Thence I rung.
                  West, en random line on south bdy. of sec. 33.
   1.48
                 Rod point on spur.
                                At this point, Sept. 7, 1914, I set off 6011 N.on
                the decleare; and at apparent noon, observe the sun on the meridian; the resulting late is 32° 4½ N.

From instrumentat this point, I take stadia measurement ever rocky cliffy N. slope (chaining impossible.)

Rod reading, 7.497 ft. Ratio, lbst. center and outside wires I ft. = 4.00 chs. Focal constant, 1.025 ft.; vertical angle plus 1°; the distance to rod is therefore 7.497 x 4 x .9997 plus .016 = 29.99 chs., which added to 1.48 chs. =

Rod point on rocky point, slopes NE. Abandoned the use
                  Note:
 31.47 Red point on rocky point, slopes NE. Abandoned the use of instrument No.8541 at this point.
                                                                                                        Sept.7, 1914.
                  Sept.11, 1914:
                 Retracement completed with a Young and Son's Light Mountain Transit No. 8588, described on page 1, Book "A."
I examine the adjustment of this transit, and correct
                            the level and collimation errors; then, to test the selar apparatus, by comparing its indications re-
                            sulting from selar observations made during a. m. and
                           p. m.hours, with a meridian determined by observa-
                  tions on Polaris, I proceed as follows:

At my camp in the SW-1 of sec-31, T.15 S., R. 30 E. Lat.

32° 4½° N. Longitude, 109° 19½° W.
              Sept.11, 1914: At 10h. 9m. p.m., 1.m.t., by my watch, which is correct local mean time, I observe Pelaris in
                            accordance with Manual of Instructions, and mark a
                            point in the line thus determined, on a peg driven in the ground, about 4 chs. N. of my station.
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24. Retracement of Third Stand Par South thre Range 30 East.
Chains
                         t,12, 1914. At 3h. 59m. a.m., l.m.t., I observe Polaris in accordance with Manual of Instructions, and mark a
                 Sept, 12, 1914.
                 point in the line thus determined, on a peg driven in the ground, about 4 chs. north of the same station.

Sept.12, 1914: At 8h. a.m., l.m.t., I lay off the azimuth of Polaris, 1°10' to the west, which is the azimuth corresponding to an hour angle of 3h.56m. from the peg set Sept.11, at 10h. 9m. p.m., and set a flag firmly inthe ground, about 4 chs. north of my station.

I also lay off the azimuth of Polaris, 0°39'-to the east, which is the azimuth corresponding to an hour angle of
                         which is the azimuth corresponding to an hour angle of
                         1h.52m. from the peg set Sept.12, at 3h.59m. a.m., the point falling on flag set about 4 chs. north of the
                         station.
                         t.12, 1914: At 8h.10m. a.m., 1.m.t., I set off 32^{\circ}4\frac{1}{8}. N. on the lat.arc; 4^{\circ}22\frac{1}{8}. on the decl.arc; and de-
                 Sept.12, 1914:
                         termine with the solar a meridian which agrees with-
                  the flag set by Polaris observation.
Sept.12,1914: I set off 4°18' N. on the decl. arc; and at
                        apparent noon, observe the sun on the meridian; the resulting late is 32° 4½ N.
                 Sept.12,1914: At 4h. p.m., l.m.t., I set off 32°4½ N. on the lat.arc; 4°14½ N. on the decl.arc; and determine with the solar a meridian, which agrees with the a.m.
                         observation, and the flag set by Polaris observation.
                  I test the stadia wire interval, by setting rod 6.016 chs.
                         from my station; the rod reading is 3.000 ft., which
                         is correct.
                  The magnetic decl. of the true meridian at noon is 13°10°
                         E., Sept 12, 1914.
                 Sept.13,1914: At 10h. 30m. a.m., l.m.t., I set off 32°4½'N. on the lat.arc; 3°55½'N. on the decl.arc; and determine with the solar a meriddan at the 31.47 chs.sta-
                         tion on the Third Standard Parallel South, on south
                 bdy. of sec. 33, set Sept. 7, 1914: Continue measurement on random line on south bdy. of sec. 33, as follows: Stadia rod point, hereinbefore described. From instrument
31.47
                at this point, I take stadia measurement across the-
head of a rocky manyon, course NE. (Chaining impossible).

Rod reading, 6.000 ft., ratio, I ft. 2.00 chs. Focal
constant, 1.025 ft. Vertical angle plus 17.26. The
distance to rod is therefore 6.000 x 2 x .9102 plus
.016 = 10.94 chs., which added to 31.47 chs. =

Rod point on east slope of ridge. Set temp. witness point
for standard 1 sec.cor. No old core found. Set in-
42.41
                        for standard & sec.cor. No old cor. found. Set in-
                for standard 1 sec.cor. No old cor. found. Set instrument at this point, and take stadia measurement over cliffy east slope (chaining impossible). Rod reading, 6.755 ft.; ratio, 1 ft.= 2.00 chs. Focal constant, 1.025 ft. Vertical angle plus 31° 16'; the distance to rod is therefore 6.755 x 2 x .7354 plus .016 = 9.95 chs., which added to 42.41 chs. =

Rod point on east slope of ridge, above cliffs. Thence by chain measurement to

Sept.13.1914.
52.36
                 A point on west slope of same ridge, brs.N.and S. near to Sept.14, 1914: At 10h. a.m., 1.m.t., I set off 32° 4½ N. on the lat.arc; 3°34'N.on the decl.arc; and determine with the solar a meridian at this point. From instrument at this point, I take stadia measurement over deep gulch, course SE. (Chaining impossibles)

Rod reading, 6.713 ft. Ratio bet. center and outside
54.51
                Rod reading, 6.713 ft. Ratio bet. center and outside wires 1 ft. 4.00 chs. Focal constant, 1.025 ft. Vertical angle plus 15° 20'; the distance to rod is therefore, 6.713 x 4 x .9301 plus .016 = 24.99 chs., which added to 54.51 chs. =
79.50
                 Rod point on east slope of ridge.
                                                                                                         Thence by chain meas-
                         urement
80.00
                  Set temp. standard cor. for secs. 32 and 33. No old cor.
                         found.
                  Thence I run,
                 West on random line, on south bdy.of sec.32.
A point on north slope of ridge. Set instrument at this
  4.41
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Retracement of Third Stand Par. South thro. Range 30 E
                               point and take stadia measurement over cliffs (chaining
                     impossible).

Rod reading, 3.071 ft. Ratio, 1 ft. = 2.00 chs. Focal constant, 1.025 ft. Angle of depression - 15° 36'; the dist. to rod is therefore, 3.071 x 2 x .9277 plus .016 £ 5.71 chs., which added to 4.41chs. =

Rod point, on rocky point slopes NW. Set instrument at this point, and take stadia measurement over gulch and eliff (chaining impossible). Rod reading 11.302 ft.; ratio, 1 ft. = 2.00 chs. Focal constant, 1.025 ft. Angle of depression - 16° 44'. The distance to rod is therefore 11.302 x 2 x .9171 plus .016 = 20.74 chs., wh which added to 10.12 chs. =

Rod point on top of cliff. brs.N.and S. Note: At this
                                impossible).
10.12
which added to 10.12 chs. =

Rod point on top of cliff, brs.N.and S. Note: At this point, Sept.14.1914, I set off 3°32' N. on the decl. arc; and at apparent noon, observe the sun on the meridian; the resulting late is 32° 4½ N. From instrument at this point, I take stadia measurement across a deep eanyon, course N. (chaining impossible).Rod reading, 11.944 ft. Ratio, 1 ft. = 2.00 chs. Focal constant, 1.025 ft. Angle of depression, 26° 56'. The dist. to rod is therefore, 11.944 x 2 x .7948 plus .016 = 19.00 chs., which added to 30.86 chs. =

49.86 Rod point on rocky point, slopes N. Set temp. witness point to standard ½ sec.cor. No old corner found. Thence by chain measurement to

50.10 Set instrument at this point, and take stadia measurement
                                                                                                                                                                                56'. The
50.10 Set instrument at this point, and take stadia measurement over cliffs (Chaining impossible). Rod reading, 11.409 ft. Ratio, 1 ft.= 2.00 chs. Focal constant, 1.025 ft. Vertical angle plus 10° 6'. The dist. to rod is therefore 11.409 x 2 x .9692 plus .016 = 22.13 chs., which added to 50.10 chs. =
 72.23 Rod point on top of spur, slopes N. Thence by chain
                               measurement to
                      Set witness point for the standard cor. of secs.31 and 32.
 73.00
                     No old corl found.
                      Sept.14, 1914.

Sept. 15, 1914: At 8h.15m. a.m., l.m.t., I set off 32°4½'

N. on the lat.ars; 3°13½'N.on the decl.arc; and de-
                                termine with the solar a meridian at this point.
                      From instrument at this point, I take stadia measurement over a gulch, course N., and a cliffy E. slope on west side of gulch (chaining impossible).

Rod reading, 11.259 ft. Ratio, 1 ft.= 2.00 chs. Focal constant, 1.025 ft. Vertical angle plus 25° 14°. The distance to rod is therefore, 11.259 x 2 x .8183 plus .016 = 18.44 chs., which added to 73.00 chs.= 91.44
                      chs. = rod point on S. bdy.of sec.31, at
Rod point on top of ridge, brs.N.and S. Continue measure-
ment by chain, west on random line on south bdy, of
 11.44
                                sec.31.
 40.00
                       Set temp. standard \( \frac{1}{2} \) sec.cor. No old cor. found.
                      On SW. slope of ridge. Discontinue chaining, and from in-
 44.01
                                strument at this point, I take stadia measurement over a gulch, course NW. (Chaining impossible). Rod reading 4.777 ft. Ratio, 1 ft. = 2.00 chs. Focal constant, 1.025 ft. Level. The distance to rod is therefore,
                                4.777 ft. x 2 plus .016 = 9.57 chs., which added to 44.01 chs. =
                     Rod point on spur slopes N.; thence chain dist. to N. E edge of W. od Canyon, course NE. Discontinue chaining and take stadia measurement across eanyon. (Chaining
                                impossible.) Rod reading, 5.131 ft. Ratio, 1 ft. 2.00 chs. Focal constant, 1.025 ft. Angle of depression = 3°. The distance to rod is therefore 5.131 x 2 x .9973 plus .016 = 10.25 chs., which added to 54.14
                                chs.
  64.39 Rod point on spur slopes N. Set instrument at this point,
                                and take stadia measurement across a draw, course NE, (Chaining impossible). Rod reading, 7.937 ft. Ratio, 1 ft. = 2.00 chs. Focal constant, 1.025 ft. Level. The
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distance to rod is therefore, 7.937 x 2 plus .016 =

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Retracement of Third Stand. Par. South thro. Range 30 E.
Chains.
                  = 15.89 chs., which added to 64.39 chs. =
            Rod point. Thence chain distate
A point, 14.62 chs. S. of original standard cor. of T.15 S.
80.28
80.50
                  Rs. 29 and 30 E., which is a stone, marked and wit-
nessed as described by the Surveyor General. At a
point 191 lks. west of which is a corner set by the
U. S. Geological Survey, which is an iron post 4 ins.
in diam., 12 ins. protruding from a mound of stone,
marked on brass cap,
US 1905 SCWC FOREST RESERVE BDRY POST NO.46 on top;
T 158 RSOE SSI on NE. and
                                   T 15S R30E S31 on NE., and
                                  R 29 E S 36 on NW. bevel;
                                                                                   I destroy the mark-
                    ing on this post, and also destroy the stone cor., and
                    obliterate marks on bearing trees.
             As no accepted lines of survey are tied to the Third Stand-
                    ard Parallel S. in R.30 E., I make an independent resurvey of said line east, reestablishing the standard $\frac{1}{4}$ sec.and sec.cors. at intervals of 40 chs. from the
                   SW. cor. of T.15 S., R.30 E., which I reestablish at this point (14.92 chs. south of original standard cor. of T.15 S., Rs.29 and 30 E., and 485.50 chs. west of original stand.cor. of T.14 S., Rs.30 and 31 E.) as
                   follows:
            Set an iron post, 3 ft. long, 3 ins. in diam., 14 ins. in the ground, on bedrock, supported by a mound of stone for the SW. cor. of Tp.15 S., R.30 E., marked on brass
                                       1914 on S.rim, and as shown below,
                                               T 15 5
                                                      R 30 E
                                      R 29 E
                                An oak, 10 ins. in diam., brs. N. 68\frac{1}{2}°E., 116 lks. dist., marked T 15 S R 30 E S 31 S C B T. Sept. 15, 1914.
            Retracement of 3rd.Standard Parallel S.S. of sec. 34, T15SR29E.
            Aug. 28,1914: At 9h. 10m. a.m., l.m.t., I set off 32°4½'N. on the lat.arc; 9°52½'N. on the decl.arc; and determine with the solar a meridian at the original standard cor.
                  of secs.33 and 34, T.15 S., R.29 E. on 3rd.Standard Parallel South, which is a cedar post 5 ins.square, pro-
                 truding 2 ft.from a mound of stone, marked and witnessed
                  as described by the Surveyor General.
            Thence I run.,
            East, on a random line on south bdy. of sec. 34.
            Descending east slope, 50 ft., through scattering timber and undergrowth to
 2.85
            Draw, course SE. Descend SE. slope, 75 ft.to
15.85
            Draw, course SE. Thence along south slope.
           Draw, course SE. Inches along south blops.

Draw, course SW.; ascend NW. slope, 40 ft.to

Spur slopes N.; descend NE. slope, 40 ft.to

Draw, course NW.; ascend SW. slope.

Draw, course SW.; ascend W. slope.

Fall 14 lks.N.of original standard 2 sec.cor., a post 3 ins.
19.80
22.00
23.25
34.45
39•55
                  square, protruding 8 ins. from a mound of stone, marked
                  and witnessed as described by the Surveyor General.
            Therefore, the true course and distance of this half mile is S.89° 48 E., 39.55 chs.
            Thence I run,
            East, on a random line, on south bdy. of sec. 34, on east
                 half mile.
           Spur, slopes NE., 350 ft. above draw at 23.25 ch. point on west half mile; thence along south slope.

Fall 10 lks.north of original closing cor. of secs. 2 and
 2.45
 2,93
                 3, T.16 S., R.29 E., which is a stone 8x14x10 ins.above
                mound of stone, marked C C on S., with 2 notches on E. and 4 notches on Wedge. At a point 7 lks.S. of this
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Retracement of 3rd. Stand. Par.S. south of sec. 34.T.15 S.R29 E
Chains.
                    core is an iron post, 4\frac{1}{2} inse in diame, with a brasseap, protruding 12 inse from a mound of stone, marked US 1905 FOREST RESERVE
                                                  W C RESERVE C C
                                                  BOUNDARY POST No.48 on top,
                                                  T 16 S S sec. 3 on SW. & R 29 E on SE. bevel, and
                                                  2 notches on E., and 4 notches on Wedge of bevel.
               Descend E. slope, 30 ft.to
  4.50
  7.85
               Head of draw, course N. Ascend NW. slope, 270 ft.to
20.70
               Spur ridge, slopes SW.; descend S. slope.
28.00
               Spur, slopes S.; descend SE. slope.
Draw, course SW., 240 ft.below spur ridge at 20.70 char
34.85
                      point.
                Ascend SW. slope, 140 ft.to
               Fall 153 lks.N. of the original standard cor. of secs. 34 and 35, which is a stone 20x12x4 ins. above a mound of stone, marked and
40.35
               witnessed as described by the Surveyor General.

True course and distance of this half mile is therefore,
S. 87°50 E., 40.38 chs.
                                                                                          Aug. <del>28</del>, 1914. -
               Resurvey 3rd.Std.Par.S.south of secs.35&36,T.15 S.,R.29 E.
              Resurvey commenced Aug. 28,1914, with a Young and Sons!

Light MountainTransit No. 8541, and completed with Young and Sons! Light Mountain Transit No. 8588. For description and certificate of approval of both of these instruments, see page 1 of Book "A."

From the original standard core of secs. 34 and 35, hereinselves of the south boundaries of
                      before described, I resurvey the south boundaries of secs. 35 and 36, T.15 S., R.29 E., independent of old standard cors. found within this distance on the Third
                      Standard Parallel South, as no accepted lines of survey
                      are tied thereto.
               East, on a true line on the south bdy. of sec. 35.
               Through scattering timber and undergrowth.
                                                                                                                  Ascend south-
                      west slope, 20 ft.to
               Spur ridge, slopes S.; descend SE slope, 50 ft.to
  1.00
              Spur riage, slopes S.; descend SE. slope, 50 ft.to
Draw, course SE. Ascend SW. slope, 55 ft.to
Spur slopes SE. Descend SE. slope, 25 ft.to
Draw, course SW. Ascend SW. slope, 125 ft.to
Spur slopes S. Descend SE. slope, 40 ft.to
Head of draw, course SW. Ascend SW. slope, 40 ft.to
Spur slopes SE. Descend SE. slope, 20 ft.to
Draw, course SW. Ascend SW. slope, 75 ft.to
Riuge, divide bet. Sulphur Springs and San Simon Valleys,
brs. NW. and SE.
5.00
10.00
12.50
17.50
21.00
26.00
27.25
32.00
               brs. NW. and SE.

Note: Aug. 28, 1914: At this point, I set off 9° 49½ N.

on the decl. arc; and at apparent noon, observe the sun on he meridian; the resulting late is 32° 4½ N.
               on he meridian; the resul
Descend NE. slope, 225 ft.to
               Draw, course N. Descend N.slope, 175 ft.to gulch.
Set an iron post 3 ft.long, 1 in. in diam., 8 ins. in
the ground, on bedrock, supported by a mound of stone
for reestablished standard ‡ sec.cor., marked on brass
39.25
40.00
                                          1914 on S.rim, and $\frac{1}{4}$ S 35 in N.half; from which,

A pine, 5 ins. in diam., brs.N.75\frac{3}{4}\cdot \pi_0 \cdot \text{, 36 lks.}

dist., marked S C \frac{1}{4}$ S 35 B T.

An oak, 7 ins. in diam., brs.N.51\frac{1}{2}\cdot \text{E.,39 lks.}

dist., marked S C \frac{1}{4}$ S 35 B T.
               No old corner found.
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Gulch, course N.; ascend W. slope, 375 ft.to

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28 Resurvey 3rd Std Par S. south of secs 55436 T. 15 S. R. 29 E
            Spur ridge, slopes NE.; descend NE. slope, 390 ft.to Gulch, course N.20°E.; ascend NW. slope, 275 ft.to Set an iron post 3 ft.long, 3 ins. in diam., 8 ins. in the ground, on bedrock, supported by a mound of stone, for the reestablished standard cor. of secs. 35 and 36,
54.80
72.00
80.00
                  marked on brass cap,
                                         1914 on S.rim,
T 15 S R 29 E in N.half;
                                         S 35 in NW., and
                                 S 36 in NE. quadrant; from which,
A juniper, 8 ins. in diam., brs.N.77% W.,87.
lks.dist., marked S C T 15 S R 29 E S 35BT
An oak, 10 ins. in diam., brs.N.21°E.,24 lks.
dist., marked S C T 15 S R 29 E S 36 B T.
            Soil, rocky, lime formation, 3rd and 4th rate.
Timber, scattering, with patches of heavy pine, oak, cedar
and juniper.
             Land, mountainous.
             Undergrowth, scattering, with patches of dense scrub oak,
                   mesquite, catclaw and manzanita.
                                                                           Aug. 28, 1914,
             Sept.16.1914; with instrument No.8588, at 1h. 50m. p.m., 1.m.t., I set off 32° 4½° N. on the lat.arc; 2°43° N. on the decl.arc; and determine with the solar a
                     meridian at the reestablished standard cor. of secs.
                     35 and 36, described above.
             Thence I run,
             East, on a true line on the south bdy, of sec. 36.
             Through scattering timber and dense undergrowth.
                                                                                                          Ascend
                    west slope, 15 ft.to
r slopes No. Fall 305 lks.north of original standard
cor. of secs.35 and 36, which is a stone 12x6x8 ins.
above ground, marked with 5 notches on the west, and
1 notch on E. edge, and S.C. on N.face; with a
    •97
             Spur slopes No.
                     mound of stone north of cor. and bearing trees. I destroy this old cor., and obliterate marks on
                     bearing trees.
             Continue along north slope.
             Descend E. slope, 150 ft.to
 3.00
             Canyon, course N. Ascend W. slope, 90 ft.to
Ridge, divide bet. Emigrant and Wood Canyons, brs. NW.
and SE. Descend NE. slope. Descend 775 ft.to closing
10.50
14.00
                   corner.
                                                 Continue descent over rolling land,
             Gulch, course NE.
28.00
             slopes north.

Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished standard ‡ sec.cor.,
40.00
                   marked on brass cap,
                                          1914 on Serim, and
                                          $\frac{1}{4}$ S 36 on N.half; from which, oak, 8 ins. in diam., brs.N.62\frac{1}{2}\text{CE.}, 49 lks.dist., marked S.C. \frac{1}{4}$ S 36 B T.
                                    An oak,
                                  An oak, 5 ins. in diam., brs.N.28°W.,50 lks. dist., marked S C4 S 36 B T.
             No old corner found.
40.75
             Draw, course NE.
57.00
75.00
             Draw, course NE.
             Draw, course NE.
             Draw, course N. Wagon road, brs. NW. and SE.
Intersect the west bdy. of T.15 S., R.30 E., 20.66 chs.
north of the SW. cor. of T.15 S., R.30 E., reestab-
 77.20
81.00
                   lished by me yesterday, as hereinbefore described.
             At point of intersection, set an iron post 3 ft.long,3 ins. in diam., 15 ins. in the ground, on bedrock, sup-
                   ported by a mound of stone, for the closing cor. of T.15 S., R.29 E., marked on brass cap,
1914 on S.rim, and as follows:
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Resurvey of 3rd Std Par.S. south of sec. 36.T.15 S. R.29 E
                            R 29 E | R 30 E .
                               S 31 from which, oak, 7 ins. in diam., brs.N.294 W.,76 lks. dist., marked S C T 15 S R 29 E S 36 B T.
                           Am oak,
          Land, mountainous.
          Soil, rocky, lime formation, 3rd and 4th rate.
Timber, scattering, with patches of heavy pine,oak,cedar, and juniper.
          Undergrowth, dense scrub oak, mesquite, catclaw and-man-
               zanita.
                                                      Sept. 16, 1914.
          Resurvey of Third Standard Parallel S., thro. Range 30 East.
          1914°, Sept. 17
               e: In resurveying this line, I destroy the markings. on the iron post cors., which I found in retracing
          Note:
               the line, and destroy all old stone cors.
          From the reestablished SW. cor. of Tp.15 S.R.R. Thereinbefore
               described, I run,
          East, on a true line, on south bdy of sec.31.

Through scattering timber and dense undergrowth. Descend
SE. slope, 75 ft. to draw.
          Thence by stadia measurement to spur as hereinbefore de-
 .22
               scribed.
 6.00
          (Approx) draw, course NE. Ascend NE. slope, 75 ft.to
Spur, slopes N. Thence by stadia measurement, as herein-
16.10
              before described.
          D. G. Taylor's house, brs. N. 24°E., about 10 chs.dist.; descend cliffy east slope, 150 ft. to canyon.
           (Approx.) Wood Canyon, course NE.; ascend cliffy W.slope,
22:00
               185 ft.to spur.
          Instrument point of stadia measurement hereinbefore de-
26.36
               scribed; thence by chain measurement to
          Spur, slopes N. nThence by stadia measurement, as herein-
26.92
               before described.
           (Approx.)gulch, course NW.; ascend SW. slope, 1075 ft.
33.00
               to ridge.
           Instrument point of stadia measurement hereinbefore de-
36.49
          scribed. Thence by chain measurement.

Set an iron post, 3 ft.long, 1 in. in diam., 18 ins. in the ground, on bedrock, supported by a mound of stone
40.00°
               for reestablished standard & sec.cor., marked on brass
               cap,
                                 1914 on S.rim,
                                 S 31 on N.half; from which
          An oak, 9 ins. in diam, brs.N.19°E., 14 lks. dist., marked S C ½ S 31 B T.

An oak, 6 ins. in diam., brs.N.72°W., 56 lks. dist., marked S C ½ S 31 B T.

Ridge, brs.N.and S. Rod point of stadia measurement here-
inbefore described; continue chain measurement de-
69.06
          scending cliffy E. slope, 570 ft.to

Set an iron post 3 ft.long, 3 ins. in diam., 16 ins. in
the ground, on bedrock, supported by a mound of stone,
for the reestablished cor. of secs. 31 and 32, marked
80.00
              on brass cap,
1914 on S.rim,
                                 T 15 S R 30 E in N.half;
S 31 in NW., and
                                 S 32 in NE quadrant; from which,
                             An oak, 6 ins. in diam., brs.N.62°E.,52 lks.
```

dist., marked S C T 15 S R 30 E S 32 B T.

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30. Resurvey of Third Standard Parallel South thro R. 30 E
Chains.
                                  A juniper, 8 ins. in diam., brs.N.65°W.,5 lks.dist., marked S C T 15 S R 30 E S 31 BT.
             Land, mountainous.
             Soil, rocky, 4th rate, granite formation.
            Timber, scattering pine, oak, cedar and juniper on moun-
                  tain; sycamore, cottonwood, ash and walnut along Wood
                  Canyon.
             Undergrowth, dense mesquite, manzanita, mahogany and cat-
claw, and scrub oak.
                                                               Sept.17 and 22, 1914.
            Sept. 22, 1914:
            East, on a true line on-the south-bdy. of sec. 32. By stadia
                    measurement hereinbefore described.
            Through scattering timber and dense undergrowth. Descend
E. slope, 90 ft.to
  2.50
             (Approx.)-guleh, course-N. Ascend-NW.-slope, 100 ft.to
  7.50
            Instrument point of stadia measurement hereinbefore de-
                    scribed. Thence by chain measurement to
            Spur slopes N. Thence by stadia measurement hereinbe-
  8.27
            fore described. Descend E. slope, 300 ft.to (Approx.) foot of descent. Continue along cliffy N. slope.
21.00
            Instrument point of stadia measurement hereinbefore described. Thence by chain measurement.

Rocky point, slopes N.; descend east slope, 40 ft.to Canyon, course N.; ascend W. slope, 700 ft.to spur.

Set an iron post 3 ft.long, 1 in. in diam., 18 ins. in the ground, on bedrock, supported by a mound of stone, for reestablished standard $\frac{1}{2}$ sec.cor., marked on
30.40
30.64
32.75
40.00
                   brass cap,
                                        1914 on S.rim,
                                4 S 32 on N.half; from which,
An oak, 8 ins. in diam., brs. N. 81°E., 54 lks.
dist., marked S C 4 S 32 B T.
                                An oak, 6 ins. in diam., brs.N. 69°W.,22 lks. dist., marked S C & S 32 B T. Discontinue
                                                                                            Discontinue
                 chaining.
            Top of cliff, 100 ft.high, brs.N.and S. Instrument and rod point of stadia measurement hereinbefore described.
49.64
            Thence by stadia measurement.
            (Approx.) spur, slopes N. Continue along steep, broke cliffy N. slope.
(Approx.) head of gulch, course N.; ascend cliffy NW.
52.00
                                                           Continue along steep, broken,
62.00
                  slope.
            Rocky point slopes NW., 400 ft. above 52 chain point. Instrument and rod point of stadia measurement hereinbefore described. Continue stadia measurement. Ascend cliffy N.slope, 160 ft.to tidge.

Instrument point of stadia measurement hereinbefore described. There has a measurement hereinbefore described.
70.38
76.09
                                  Thence by chain measurement.
                  scribed.
            Ridge, brs. NE. and SW.; descend E. slope, 10 ft.to
Set an iron post 3 ft.long, 3 ins. in diam., 4 ins. in the
ground, on bedrock, supported by a mound of stone, for
the reestablished standard cor. of secs. 32 and 33,
79.00
80.00
                 marked on brass cap,

1914 on S.rim,

T 15 S R 30 E in N.half;
S 32 in NW., and
                                 S 33 in NE quadrant; from which,
A pine, 6 ins. in diam., brs.N.51°E.,88 lks.
dist.,marked S C T 15 S R 30 E S33 B T.
A pine, 5 ins. in diam., brs.N.32°W.,74 lks.
dist., marked S C T 15 S R 30 E S 32 B T.
            Land, mountainous.
            Soil, rocky, 4th rate, granite formation.
            Timber, scattering pine, oak, cedar and juniper.
            Undergrowth, dense manzanita, mahogany, mesquite and catclaw,
```

and scrub oak.

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Resurvey of Third-Stand Parallel S. through Range 30 E.
Chains.
            East, on a true line on the south bdy. of sec. 33.
            Descend east slope, through scattering timber and dense
                 undergrowth, chaining measurement to
  1.00 Rod point on stadia measurement hereinbefore described.
                 Disconinue chaining.
            (Approx.) descend NE. slope.
(Approx.) gulch, course SE., 500 ft.below cor.; ascend rolling south slope, 50 ft.to
Instrument point of stadia measurement hereinbefore de-
  3.00
15.00
25.99
                 scribed; thence by chain measurement.
            Rocky ridge, brs. N. and S. Descend cliffy east slope, 430
26.50
                 ft.to
28.14
            Rod point of stadia measurement. hereinbefore described;
                 continue bhaining to
            Set an iron post 3 ft.long, 1 in. in diam., on bedrock, on a flat place on top of cliffs, supported by a mound of stone, for reestablished standard 2 sec.cor.,
40.00
                 marked on brass cap,
1914 on S.rim, and
                 $ 33 on N.half;
raise a mound of stone 2 ft.base, la ft. high, 8 ft.
                 NE. of cor. Impracticable to build on the N. Pits impracticable. There are trees within limits; but,
            not available for B Ts. Discontinue chaining.

Over broken cliffs, sloping NE. Descend 400 ft.to
(Approx.) head of rocky canyon, course NE. Ascend cliffy

NW. slope, 150 ft.to

Booky point. slopes NE. Tacture.
46.00
            Rocky point, slopes NE. Instrument and rod point of stadia
49.03
                 measurements hereinbefore described. Continue stadia
               measurement over rocky, cliffy N.slope.
79.02
            Rocky spur, slopes N. Instrument and rod point of stadia
                                                                                  Thence by chain
                 measurements hereinbefore described.
                 measurement.
            Set an iron post 3 ft.long, 3 ins. in diam., on bedrock, supported by a mound of stone, for the reestablished standard cor. of secs. 33 and 34, marked on brass cap, 1914 on Sirim,

T 15 S R 30 E in N.half;
80.00
                                S 33 in NW., and
S 34 in NE. quadrant; from which,
A pine, 6 ins. in diam., brs.N.52°E., 74 lks.
dist., marked S C T 15 S R 30 E S 34 B T.
A pine, 6 ins. in diam., brs.N.30°W., 97 lks.
dist., marked S C T 15 S R 30 E S 33 B T.
            Discontinue chaining.
            Land, mountainous.
            Soil, rocky, granite formation, 4th rate.
Timber, scattering pine, oak, cedar and juniper.
Undergrowth, dense manzanita, mahogany, scrub oak, mesquite
                 and catclaw.
            East, on a true line on the south bdy. of sec. 34; By stadia
            measurement hereinbefore described.

Along broken, rocky, cliffy north slope, through scattering timber and dense undergrowth. Ascend 200 ft.to
            Rocky point, slopes NE. Instrument and rod point of
10.67
                 stadia measurement hereinbefore described. Continue
            stadia measurement along cliffy north slope, to Rocky point slopes N. Instrument and rod point of stadia
31.44
                 measurement hereinbefore described. Continue stadia
            measurement over cliffy N.slope, to
Point beyond cliffs on NW. slope of ridge. Instrument
40.29
            point of stadia measurement hereinbefore described. To reestablish standard \(\frac{1}{4}\) sec.cor. in its proper position, I return by chain measurement, 29 lks.west to

Set an iron post 3 ft.long, 1 in. in diam., 20 ins. in the ground, on bedrock, supported by a mound of stone, for reestablished standard \(\frac{1}{4}\) sec.cor., marked on brass
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40.00

cap,

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Resurvey of Third Stand. Parallel S. thro. Range 30 East.
Chains
                                    1914 onS.rim, and
                             $ 34 on N.half; from which,
A pine, 14 ins. in diam., brs. N. 50°E., 88 lks.
dist., marked S C & S 34 B T.
                             An oak, 4 ins. in diam., brs.N.12°W., 32 lks. dist., marked S C 4 S 34 B T.
           Thence east by chain measurement.
           Ascend NW. slope, 125 ft.to
           Ridge, brs.NE. and Sw.; descend SE. slope. Descend S. slope.
45-75
50.00
           Rocky spur, slopes SE., 125 ft. below ridge. Rod point of stadia measurement, hereinbefore described. Discon-
56.01
                tinue chaining. Thence by stadia measurement. rocky, broken, eliffy south slope.
           Instrument point of stadia measurement hereinbefore de-
75.17
                               Thence by chain measurement
                scribed.
           Saddle in ridge, brs. NW. and SE.; descend rocky NE. slope.
76.00
                150 ft.to
           Bare rock, slopes NE.; impracticable to reestablish stand-
80.00
               ard of sec.cor. at this point; therefore, at a point 30 lks. N. 0°2' E., set an iron post 3 ft. long, 3 ins. in diam., 4 ins. in he ground, on bedrock, sup-
              ported by a mound of stone, for witness constants cornect secs. 34 and 35, marked on brass cap, 1914 on S.rim,
                                    W C S. of center,
T 15 S R 30 E in N.half;
S 34 in NW., and
                             S 35 in NE. quadrant; from which
A pine, 10 ins. in diam., brs. N. 30°E., 139
lks.dist., marked W C S C T 15 S R 30 E
                             S 35 B T.

An oak, 8 ins. in diam., brs.N.41°W., 119 lks.
dist., marked W C S C T 15 S R 30 E S 34 BT.
           Land, mountainous.
           Soil, rocky, granite formation, 4th rate.
           Timber, scattering pine, oak, cedar and juniper. -
Undergrowth, dense scrub oak, manzanita, mahogany, mes-
                  quite and catclaw. .
                                                  Sept. 22 and 26, 1914.
           East, on a true line on the south bdy.of sec.35, from the true point for standard cor.of secs. 34 and 35, by
                chain measurement.
           Through scattering timber and dense undergrowth. Descend NE. slope, 275 ft.to
           Top of cliffs, brs.NW. and SE. Rod point of stadia meas-
16.73
                urement hereinbefore described. Discontinue chaining. Thence by stadia measurement, over rocky, cliffy north
                            descend 265 ft.to
                 slope;
            Rocky point slopes N.
                                                   Instrument point of stadia meas-
39.60
                urement hereinbefore described. Thence by chain meas-
                 urement. Descend NE. slope, 500 ft.to foot of moun-
                 tain.
           Set an iron post 3 ft.long, 1 in. in diam., 12 ins. in the ground, on bedrock, supported by a mound of stone, for reestablished standard 2 sec.cor., marked on brass
40.00
                cap,
                                     1914 on S.rim, and
           1314 on S.Pim, and
14 S 35 on N.half; from which,
A cedar, 8 ins. in diam., brs.N.86°W., 49 lks.
dist., marked S C 1/4 S 35 B T.

No other trees within limits; raise a mound of stone 2
ft.base, 11/2 ft. high, 6 ft. NW. of cor. Impracticable
to build mound north of cor. Pits impracticable.

Draw. course NE.
46.90
57.90
           Draw, course NE. Draw, course NE.
 59.30
            Wire fence brs. NE. and SW.
            An igneous boulder, 30x15x12 ft. on line.
 60.00
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Resurvey of Third Stand Parallel S. through R. 30 East
Chains.
66.50
        Head of draw, course NE., foot of mountain, brs. NW. and SE.
        Continue to descend over rolling N. slope. Draw, course NE.
69.15
         Wash, course NE.
                                10 lks.wide, 18 ins. deep, 100 ft.below
76.50
              foot of mountain.
        Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished standard cor. of secs.
80.00
              35 and 36, marked on brass cap,
                            1914 on S.rim,
                            T15 S R 30 E in N.half;
            S 35 in NW., and
S 36 in NE-quadrant;
raise a mound of stone 2 ft. base, 1 ft. high, north
of corner. Pits impracticable.
        Land, mountainous.
        Soil, rocky, igneous formation, 4th rate.
        Timber, scattering pine, oak, cedar and juniper.
        Undergrowth, dense manzanita, mahogany, mesquite, scrub
             oak and catclaw.
                                                       Sept.26 and 23,1914.
 Chains East, on a true line
                                      on S.bdy.of sec.36
          Over rolling land, through scattering timber and dence
               undergrowth.
          Wash, 20 Iks.wide, 30 ins.deep, course NE. Wire fence, bears NW. & East.
  2.75
  3.85
          Wash, 15 lks.wide, 3 ft.deep, course N.
  7.10
         Wash, 25 lks.wide, 2 ft.deep, course N.
Wash, 80 lks.wide, 3 ft.deep, course NE.
Wash, 10 lks.wide, 1 ft.deep, course NE.
Wash, 10 lks.wide. 2 ft.deep, course NE.
Set an iron post, 3 ft.long, 1 in in diam., 26 ins.in
 11.25
 22.60
 25.15
 33.40
 40.00
               the ground, for reestab. std. a. sec. cor marked lon brass
                                 1914 on S.rim, and
                                  $S 36 on N.half
           ratise a mound of atone 2 ft.base, l_{2}^{1} ft.high, N.of cor.
           Pits impracticable.
  40.20
           Wash, 8 lls. wide, 18 ins.deep, course NE.
           Wash, 15 lks. wide, 2 ft.deep, course NE. The origistd cor. of Ts. 15 S., Rs. 30 & 31 E., which is.
 64.75
 85.50
              a stone, , marked and witnessed as hereinbefore
           described.
           Land rolling.
           Soil, sandy loam, gumbo, stony & gravelly, 2nd to 4th rate
           Timber, scattering oak and umbreHala.
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September 23, 1914.

Undergrowth, dehse mesquite and catclaw.

William B. Kimmel.

CERTIFICATE OF ASSISTANTS.

William B. Kimm	el U. S. Sur	veyor, during the perio	ds and in the can
ed opposite our several signa		· -	
	••		
llel North, N. of Frac T. 4/2/			
5th Guide Meridian East	thru Tps. 2 & 3 S., bet.	Rs. 29 and 30 E., the	Gila & Salt Ric
e Line thru R.28 E. an	d the 3rd Standard	Parallel South in A.	s. 29 and 30 E.
·	·		
he Gila and Salt Riv	Monidian in	ha State of Arizan	a
ch are represented in the fore	egoing field notes as having	ng been executed by his	m, and under his
; and that said survey have	been, in all respects, to the	ne best of our knowledg	ge and belief, we
afully executed.			,
	PERIOD O	F SERVICE.	
NAME.	Begun.	ENDED.	CAPACITY.
0-10-1		-	
6 6	Aug. 30,1913.	Dec. 23, 1913.	Flagman.
1) //	/ ~ . ~ . ~	3	
, 0 0 400	Sept. 9,1913,	April 22,1914.	Axman, Moundman,
1 Tellard			•
Hellard brev Warma	Aug. 27,1913.	July 3, 1914.	Moundman, Chainman, Moundman
	Aug. 27,1913.	July 3, 1914.	Moundman, Chainman. Moundman, Chainman.
Heland Grey Worma De Jandson	Aug, 27,1913. Sept. 1,1913. Jan. 21,1914.	July 3, 1914. Nov. 4, 1914. June 13, 1914.	Moundman, Chainman, Moundman, Chainman, Flagman, Moundman. Axman,
	Aug. 27,1913.	July 3, 1914. Nov. 4, 1914. June 13, 1914. Oct. 17, 1914.	Moundman, Chainman, Moundman, Chainman, Flagman, Moundman. Axman, Flagman.
	Aug, 27,1913. Sept. 1,1913. Jan. 21,1914.	July 3, 1914. Nov. 4, 1914. June 13, 1914. Oct. 17, 1914.	Moundman, Chainman, Moundman, Chainman, Flagman, Moundman. Axman, Flagman.
	Aug. 27,1913. Sept. 1,1913. 2, Jan. 21,1914. Sept. 2,1914. July 7,1914.	July 3, 1914. Nov. 4, 1914. June 13, 1914. Oct. 17, 1914.	Moundman, Chainman, Chainman, Chainman, Flagman, Moundman. Axman, Flagman. Moundman.
	Aug. 27,1913. Sept. 1,1913. Jan. 21,1914. Sept. 2,1914. July 7,1914. July 7, 1914.	July 3, 1914. Nov. 4, 1914. June 13, 1914. Oct. 17, 1914. Nov. 4, 1914. Oct. 17, 1914.	Moundman, Chainman. Moundman, Chainman. Flagman, Moundman. Axman, Flagman. Moundman. Flagman.
	Aug. 27,1913. Sept. 1,1913. Jan. 21,1914. Sept. 2,1914. July 7,1914. July 7, 1914.	July 3, 1914. Nov. 4, 1914. June 13, 1914. Oct. 17, 1914. Nov. 4, 1914.	Moundman, Chainman. Moundman, Chainman. Flagman, Moundman. Axman, Flagman. Moundman. Flagman.
	Aug. 27,1913. Sept. 1,1913. Jan. 21,1914. Sept. 2,1914. July 7,1914. July 7, 1914.	July 3, 1914. Nov. 4, 1914. June 13, 1914. Oct. 17, 1914. Nov. 4, 1914. Oct. 17, 1914.	Moundman, Chainman. Moundman, Chainman. Flagman, Moundman. Axman, Flagman. Moundman. Flagman.
	Aug. 27,1913. Sept. 1,1913. Jan. 21,1914. Sept. 2,1914. July 7,1914. July 7, 1914.	July 3, 1914. Nov. 4, 1914. June 13, 1914. Oct. 17, 1914. Nov. 4, 1914. Oct. 17, 1914.	Moundman, Chainman. Moundman, Chainman. Flagman, Moundman. Axman, Flagman. Moundman. Flagman.
	Aug. 27,1913. Sept. 1,1913. Jan. 21,1914. Sept. 2,1914. July 7,1914. July 7, 1914.	July 3, 1914. Nov. 4, 1914. June 13, 1914. Oct. 17, 1914. Nov. 4, 1914. Oct. 17, 1914.	Moundman, Chainman. Moundman, Chainman. Flagman, Moundman. Axman, Flagman. Moundman. Flagman.
	Aug. 27,1913. Sept. 1,1913. Jan. 21,1914. Sept. 2,1914. July 7,1914. July 7, 1914.	July 3, 1914. Nov. 4, 1914. June 13, 1914. Oct. 17, 1914. Nov. 4, 1914. Oct. 17, 1914.	Moundman, Chainman. Moundman, Chainman. Flagman, Moundman. Axman, Flagman. Moundman. Flagman.

Subscribed and certified to before me on the dates of the final service as shown above.

William B. Kimmel.

FINAL OATH OF UNITED STATES SURVEYOR.

I, William B. Kimmell, U. S. Surveyor, do solemnly swear that, in pursuance
of special instructions received from the U. S. Surveyor General for Arizona for Group 26 dated Aug. 25,1910, Aug. 9,1912, Feb. 18,1913 and Dec. 30,1913 bearing dates of the day of ,1914, I have well, faithfully, and truly,
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying
Instructions, and the laws of the United States, surveyed all those parts or portions of the 1st Stand-
ard Parallel North, N. of frac. T.4/2N. R.32E., the 1st Standard Parallel South in Rs. 28&
29 E., the 5th Guide Meridian East thru Ts. 2835 bet. Rs. 29830 E. the Gila & Salt
River Base Line thru R. 28 E. and the 3rd Standard Parallel South in Rs. 29 &
30 F.
of the <i>Gila & Salt</i>
River Meridian, in the State of Arizons., which are represented in
the foregoing field notes as having been executed by me, and under my direction; and I do further
solemnly swear that all the corners of said survey have been established and perpetuated in strict accord-
ance with the Manual of Surveying Instructions, and the special written instructions of the U.S. Surveyor
General for Arizona for Grp 26 and in the specific manner described in the field notes, and that
the foregoing are the original field notes of such surveys.
the foregoing are the original held hotes of such sur veys.
William & Remnel.
U. S. Surveyor.
Subscribed by said William & Knimel, and sworn to before me this 4 day of March, 1915
this the day of march 1915
Thank In gall
SEAL SEAL
SURVEYOR-GENERAL OF ARIZONA
APPROVAL.
APPROVAL. Office of the United States Surveyor General,
Office of the United States Surveyor General, Phoenix Ariz., June 19 1915
Office of the United States Surveyor General, Phoenix Ariz., June 19 1915
Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of frac. T. 4/2
Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of frac. T. 4/2 N., R. 32E., the resurvey of the 1st Std. Par. South, thru parts of Rs. 28+29E., the 5th
Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of frac. T. 4/2 N., R. 32E., the resurvey of the 1st Std. Par. South, thru parts of Rs. 28+29E., the 5th Guide Meridian East, thru Ts. 2 & 35., bet Rs. 29 & 30E., and the Gila & Solt River Base
Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of frac. T. 4/2 N., R. 32E., the resurvey of the 1st Std. Par. South, thru parts of Rs. 28+29E., the 5th Guide Meridian East, thru Ts. 2 & 3 S., bet Rs. 29 & 30 E., and the Gila & Solt River Base Line thru R. 28E., and the retracement & resurvey of the 3rd Standard Parallel South,
Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of frac. T. 4/2 N., R. 32 E., the resurvey of the 1st Std. Par. South, thru parts of Rs. 28+29 E., the 5th Guide Meridian East, thru Ts. 2 & 35, bet Rs. 29 & 30 E., and the Gila & Solt River Base Line thru R. 28 E., and the retracement & resurvey of the 3rd Standard Parallel South, thru the E/2 of R. 29 E. and thru R. 30 E. of the Gila and Solt River Ba Meridian,
Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of frac. T. 4/2 N., R. 32E., the resurvey of the 1st Std. Par. South, thru parts of Rs. 28+29E., the 5th Guide Meridian East, thru Ts. 2 & 3 S., bet Rs. 29 & 30 E., and the Gila & Solt River Base Line thru R. 28E., and the retracement & resurvey of the 3rd Standard Parallel South,
Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of frac. T. 4/2 N., R. 32 E., the resurvey of the 1st Std. Par. South, thru parts of Rs. 28+29 E., the 5th Guide Meridian East, thru Ts. 2 & 3 S., bet Rs. 29 & 30 E., and the Gila & Solt River Base Line thru R. 28 E., and the retracement & resurvey of the 3rd Standard Parallel South, thru the E/2 of R. 29 E. and thru R. 30 E. of the Gila and Solt River Base Meridian, in the State of Arizona,
Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of frac. T. 4/2 N., R. 32E., the resurvey of the 1st Std. Par. South, thru parts of Rs. 28+29E, the 5th Guide Meridian East, thru Ts. 2 & 3 S., bet Rs. 29 & 30E., and the Gila & Solt River Base Line thru R. 28E., and the retracement & resurvey of the 3rd Standard Parallel South, thru the E/2 of R. 29E. and thru R. 30E. of the Gila and Solt River Base Meridian, in the State of Arizona, executed by William B. Kimmel, U.S. Surveyor
Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of frac. T. 4/2 N., R. 32 E., the resurvey of the 1st Std. Par. South, thru parts of Rs. 28+29 E., the 5th Guide Meridian East, thru Ts. 2 & 3 S., bet Rs. 29 & 30 E., and the Gila & Solt River Base Line thru R. 28 E., and the retracement & resurvey of the 3rd Standard Parallel South, thru the E/2 of R. 29 E. and thru R. 30 E. of the Gila and Solt River Base Meridian, in the State of Arizona,
Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of frac. T. 4/2 N., R. 32E., the resurvey of the 1st Std. Par. South, thru parts of Rs. 28+29E, the 5th Guide Meridian East, thru Ts. 2 & 3 S., bet Rs. 29 & 30E., and the Gila & Solt River Base Line thru R. 28E., and the retracement & resurvey of the 3rd Standard Parallel South, thru the E/2 of R. 29E. and thru R. 30E. of the Gila and Solt River Base Meridian, in the State of Arizona, executed by William B. Kimmel, U.S. Surveyor
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Office of the United States Surveyor General, Phoenix Ariz., June 19, 1915 The foregoing field notes of the survey of the 1st Std. Par. North, N. of free. T.4/2 N., R. 32 E., the resurvey of the 1st Std. Par. South, thru parts of Rs. 28+29 E., the 5th Guide Meridian East, thru Ts. 2 & 3 S., bet Rs. 29 & 30 E., and the Gila & Selt River Bese Line thru R. 28 E., and the retracement & resurvey of the 3rd Standard Parallel South, thru the E/2 of R. 29 E. and thru R. 30 E. of the Gila and Salt River Ba Meridian, in the State of Arizona, executed by William B. Kimmel, U.S. Surveyor under his special instructions, dated Aug. 25,1910, Aug. 9,1912, Feb. 18,1913 & Dec. 30., 1913, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the esurveys they describe, are hereby approved. Man. L. Surveyor General. of Arizona.
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