2774   2774

4—679

Book "I"

Subdivisions

FIELD NOTES

OF THE SURVEY OF   BOOK 2774

PART OF THE

SUBDIVISION LINES

AND RETRACEMENT OF PART OF THE

SOUTH BOUNDARY OF

TOWNSHIP 3 SOUTH RANGE 30 EAST

Of the Gila and Salt River Base and Meridian,

In the State of   ARIZONA

EXECUTED BY

WILLIAM B. KIMMEL

In the capacity of U. S. Surveyor___, under instructions dated February 18, 1913,

issued by the United States Surveyor General to govern surveys included in

Group No. 26_____, which were approved by the Commissioner of the General Land

Office, February 28_____, 1913, pursuant to authority contained in the Act of

Congress dated June 23_____, 1913

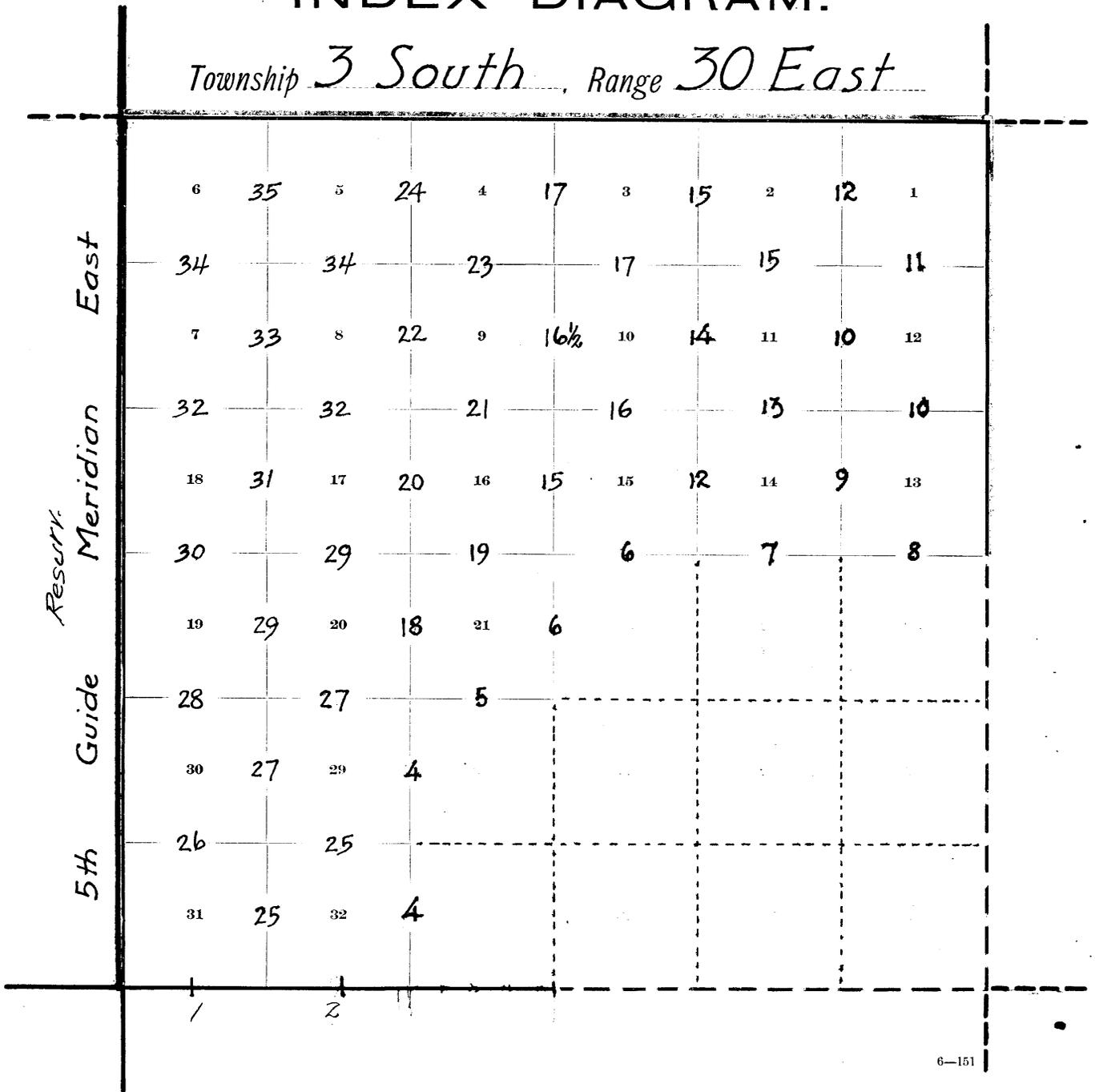Survey commenced February 4_____, 1914

Survey completed March 11_____, 1914

6—151

Book "I"

BOOK 2774

INDEX DIAGRAM.

Township *3 South*, Range *30 East*

Resurv. Meridian East

Guide

5th

6	35	5	24	4	17	3	15	2	12	1	
	34		34		23		17		15		11
7	33	8	22	9	16½	10	14	11	10	12	
	32		32		21		16		13		10
18	31	17	20	16	15	15	12	14	9	13	
	30		29		19		6		7		8
19	29	20	18	21	6						
	28		27		5						
30	27	29	4								
	26		25								
31	25	32	4								

1   2

6—151

Notes in Book "A", this Group

"   "   " "B"   "   "

Surveyed

Unsurveyed

Chains.

Retracement commenced Feb.4, 1914, and executed with a
  Young and Sons' Light Mountain Transit, with Smith
  Solar Attachment, No.8541. For description of instru-
  ment, and certificate of approval, see Book "A."
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 pro-
  ceed to the original corner of secs.5,6,31 and 32, on
  the south bdy.of he Tp., which is a stone 16x13x5 ins.,
  set in a mound-of stone, marked 5 notches on the E.and
  1 notch on the W.edges; from which
          A cedar stump marked B T, brs. N.49½°W.,177
            lks.dist.
Feb. 4, 1914: At 10h.30m. a.m.,l.m.t., I set off 33°07'
  N.on the lat.arc; 16°18'S. on the decl.arc; and de-
  termine a meridian with the solar at the above de-
  scribed corner.
Thence I run,
West, on a random line, bet. secs.6 and 31.
Along steep broken north slope, through dense undergrowth
  over rocky land.

27.00	Enter bottom of gulch, course N.80°E.; ascend along bot-tom of gulch.
31.00	Leave bottom of gulch; ascend NE slope, 350 ft.
40.00	Fall 12 lks.south of the original ¼ sec.cor., which is a stone 6x6x8 ins..above ground, marked ¼ on the N.face; with a mound of stone, north of corner.
62.00	Top of ascent; descend NW. slope, 15 ft.to
65.00	Gulch, course NE.; ascend E. slope, 275 ft.
71.90	Wagon road, brs.N.and S.

Note: At this point, Feb. 4, 1914, I set off 16°17' S. on
  the decl.arc; and at apparent noon, I observe the sun
  on the meridian; the resulting lat.is 33°07'N.

79.00	Top of spur ridge, brs.NW. and S.; continue along S. slope, leave undergrowth, brs.NW. and S.
79.89	Fall 26 lks.S. of the original cor. of Ts. 3 and 4 S., Rs.29 and 30 E., which is a mound of stone 4 ft. high, 3 ft.base, near the center of which was a piece of rotten post, marks very faint. I reestablish this cor. at the same point as follows:

Set an iron post 3 ft.long, 3 ins. in diam., 24 ins. in
  the ground,for cor.of Ts. 3 and 4 S., Rs.29 and 30 E.,
  marked on brass cap,
          1913 on S.rim,
          T 3 S in N.,
          R 30 E in-E.,
          T 4 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;
  raise a mound of stone 4 ft.base, 3 ft. high, S of cor.
Pits impracticable.
The true course and dist. of this mile is therefore
  N.89°49'W., 79.89 chs.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar.
Undergrowth, scrub oak, catclaw and cacti.
                        Feb. 4, 1914.

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Feb. 9, 1914: At 8h. a. m., l. m. t., I set off 33°.07'
  N. on the lat. arc; and 14°46'.S. on the declination
  on the lat.arc; and determine a meridian with the solar
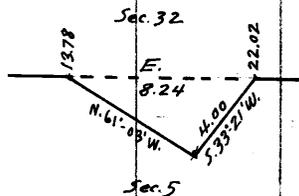 at the original cor.of secs. 5,6,31 and 32, hereinbe-
  fore described.
Thence I run,
East, on a random line, bet. secs. 5 and 32.
Descend NE. slope, through scattering undergrowth,over
  rocky land.

12.90	Old wagon road, brs.NW. and SE. Descend E. slope.

122

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2. Retracement of part of the S.bdy.of Township 3 S.,R.30 E.

Chains	
13.78	Top of a perpendicular bluff, 200 ft. high, brs.N.and S., at the foot of which runs the San Francisco River,120 lks.wide, 2 ft. deep, muddy water, rocky bottom,flows S. As I cannot chain east from this point, I set a flag here, and proceed east to a point on line in river bottom in center of wagon road, bearing NE.and SW., where I lay off a base line S. 33° 21' W.,4.00 chs. to a point from which the flag bears N.61°03'W.; therefore, sine 94°24' = .99705 x base 4.00 chs. plus by sine 28°57' = .48405= 8.24 chs., the distance across, which added to 13.78 chs., makes 22.02 chs.
22.02	Wagon road brs.NE· and SW., 365 ft.below sec.cor.
22.94	Wire fence brs. NE. and SW.
24.35	Trail to pump house, brs.N.and S.
	Harper's house brs.S.10°E. about 10 chs.dist.
	Pump house brs. N.15° W., about 125 lks.dist.
25.30	West end of small dry reservoir, about 60 ft.long N·and S., and 30 ft.wide.
25.80	Wire fence, brs.NW· and SE.; ascend NW· slope.
36.25	Top of ascent, 250 ft. above wagon road; continue along steep broken N.slope.
39.64	Fall 23 lks.N. of the original ¼ sec.cor., which is a stone 6x12x10 ins. above ground, marked ¼ on the N.face; I reset same stone with marks to the south for ¼ sec. cor. to sec.5 of T.4 S., R.30 E., and raised a mound of stone 2 ft.base, 1½ ft. high, south of corner. Pits. impracticable. True course and dist. of W. half of north bdy. of sec.5 of T.4 S., R.30 E. is therefore S. 89°40'E., 39.64 chs.
	From this corner I run,
	East, 36 lks. to
40.00	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished ¼ sec.cor.,to sec.32,of T.3 S., R.30 E., marked on brass cap,
	1913 on S.rim,
	S 32, ¼ in N.half;
	raise a mound of stone 2 ft.base, 1½ ft. high,north of corner. Pits impracticable.
	True courses and dists.of west half of S.bdy.of sec.32 of T.3 S., R.30 E. are S.89°40' E., 39.64, and east 0.36 chs.
	Impossible to chain further; therefore, I return west 106 lks. to
38.94	From which point [1] stadia over broken N· slope; rod reading 2.300 ft., ratio 1 ft. = 2.00 chs., focal constant 1.025 ft., vertical angle plus 6° the distance is therefore .9891 x 2 x 2.300 plus .016 = 4.56 chs., which added to 38.94 chs. = 43.50 chs.
43.50	Rod point; ascend NW. slope, continuing measurement east, on random line
46.25	Top of ascent, 75 ft.above ¼ sec.cor.; descend NE· slope, 50 ft.to
52.25	Bottom of canyon, course NW.; ascend SW· slope, 230ft.to
62.00	Top of ascent; descend SE. slope, 60 ft.to
75.00	Bottom of gulch, course SW.; t, ascend NW· slope,90 ft.to
80.00	No trace of original cor. of secs.4,5,32 and 33 can ebe found at this point, and as the line east of here is subject to rectification, my random line on east half mile of south bdy. of sec.32, becomes a true line when at this point, I
	Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs.32 and 33,T. 3 S., R.30 E., marked on brass cap,
	1913 on S·rim,
	T 3 S in N.,
	T 4 S in S., and
	R 30 E in W.half;
	S 33 in NE·,
	S 4 in SE.,

Retracement of part of S.bdy.of Township 3 S'.R.30 East.   3.

Chains.

S 5 in SW., and
S 32 in NW. quadrant; from which,
A cedar, 6 ins. in diam., brs.N.58°E.,45 lks.
dist., marked T 3 S R 30 E S 33 B T.
Raise a mound of stone 2 ft. base, 1½ ft. high,west of
     corner. Pits impracticable.
Note: Feb. 9, 1914: At this corner I lay off 14°44'S.on
     the decl.arc; and at apparent noon, I observe the sun
     on the meridian; the resulting lat is 33° 07' N.
Soil, rocky, 4th rate, with the exception of a narrow
     strip along the river, which is sandy loam, 1st rate.
Timber, cottonwood and sycamore along the river; scatter-
     ing pine and cedar east of the river.
Undergrowth, dense patches of crucifixion plant, catclaw,
     scrub oak, mesquite and cacti.
                                   Feb. 9,1914.

4. Partial Subdivision of Township 3 South, Range 30 East.

Chains	
	Survey commenced Feb. 9,1914, and executed with a Young and Sons' Light Mountain Transit, with Smith Solar Attachment, No.8541. For description of instrument, and certificate of approval, see Book "A."
	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 subdidision of part of Tp.3 S., R 30 E.
	I begin at the reestablished cor.of secs. 32 and 33,on the south bdy. of the Tp., hereinbefore described.
	Thence I run,
	N.0°2'W., bet. secs. 32 and 33.
	Through scattering timber and dense undergrowth. Descend north slope, 60 ft.to
2.65	Gulch, course W. Ascend steep SE· slope, 390 ft.to
14.50	Ridge, brs.E·and W. Descend N. slope, 100 ft.to
19.50	Gulch, course NW. Ascend SW. slope, 30 ft.to
24.00	Spur ridge, brs.W. Descend NW· slope, 95 ft.to
32.00	Gulch, course SW. Ascend SE. slope, 200 ft.to
40.00	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,
	1913 on Srim, ¼ S 32 in W.,
	S 33 in E·half; from which,
	A cedar, 5 ins. in diam., brs.N.16°E.,90 lks. dist., marked ¼ S 33 B T.
	A cedar, 5 ins. in diam., brs.N.26°W.,54 lks. dist., marked ¼ S 32 B T.
40.50	Spur ridge, brs.E. Descend N. slope, 530 ft.to
57.70	Gulch, course NW.; ascend.
58.90	Low spur ridge, brs.W.; descend.
59.40	Gulch, course SW. Ascend SE· slope, 470 ft.to
77.00	Ridge, brs.NE' and SW.; ascend along same.
80.00	Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs. 28,29,32 and 33, marked on brass cap,
	1913 on S·rim,
	T 3 S R 30 E in N.half;
	S 29 in NW·,
	S 28 in NE',
	S 33 in SE., and
	S 32 in SW·quadrant; from which,
	A cedar limb, 7 ins. in diam., brs.N.24°W., 84 lks.dist., marked T 3 S R 30 E S 29 B T.
	No other trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
	Land, mountainous and hilly.
	Soil, rocky, 4th rate.
	Timber, scattering cedar.
	Undergrowth, dense scrub oak, catclaw, mesquite and cacti.
	Mountainous land, 66 chs.
	Feb.9,1914.

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	Feb.10, 1914: At 8h.4m. a.m.,l.m.t., I set off 33°07½' N. on the lat.arc; 14°27'S. on the decl.arc; and determine a meridian with the solar at the cor.of secs. 28,29,32 and 33,
	Thence I run,
	N.0°2'W., bet. secs.28 and 29.
	Through scattering timber and dense undergrowth. Ascend SW. slope, 40 ft.to
4.00	Thence along west slope.
12.00	Descend NW. slope, 60 ft.to
18.00	Gulch, course W. Ascend SW· slope, 75 ft.to
24.00	Spur ridge, brs.W. Descend NW· slope, 130 ft.to
39.65	Rock ledge brs.NW. and SE. Descend N. slope.
40.000	Set an iron post 3 ft.long, 1 in.in diam.,26 ins. in the ground, for ¼ sec.cor., marked on brass cap,
	1913 on S·rim,

Chains	
	$\frac{1}{4}$ S 29 in W., and
	S 28 in E.half; from which,
	A cedar, 6 ins. in diam., brs.N.61$\frac{1}{2}$°E.,13 lks. dist., marked $\frac{1}{4}$ S 28 B T.
	A cedar, 7 ins. in diam., brs.N.85°W.,9 lks. dist., marked $\frac{1}{4}$ S 29 B T.
43.25	Canyon, course W. Ascend SW. slope, 115 ft.to
52.00	Spur ridge, brs.W. Descend NW. slope, 300ft to
74.00	Descend N. slope, to
80.00	Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs.20,21,28 and 29, marked on brass cap,
	1913 on S.rim,
	T 3 S R 30 E in N.half;
	S 20 in NW.,
	S 21 in NE.,
	S 28 in SE., and
	S 29 in SW.quadrant; from which,
	A cedar, 5 ins. in diam., brs.N.42$\frac{1}{4}$°E.,29 lks. dist., marked T 3 S R 30 E S 21 B T.
	A cedar, 8 ins. in diam., brs.N.40$\frac{3}{4}$°W., 110 lks.dist., marked T 3 S R 30 E S 20 B T.
	No other trees wihin limits. Raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, west of corner. Pits impracticable.
	Note: Atthis cor. I set off 14°25'S. on the decl.arc;and at apparent noon, I observe the sun on the meridian; the resulting lat.is 33°8$\frac{1}{2}$' N.
	Land, rolling, hilly and mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar.
	Undergrowth, dense scrub oak, mesquite, catclaw and cacti.
	Mountainous land, 26 chs.

	East, on true line, bet. secs.21 and 28.
	Through scattering timber and dense undergrowth. Ascend slight NW. slope, 40 ft.to
6.00	Spur ridge, brs.N. Descend NE. slope, 110 ft.to
13.50	Canyon, course NW. Ascend steep SW. slope, 305 ft.to
22.55	Spur ridge, brs.NW. Thence along rim rock, brs.E.and W.
24.00	Descend NE. slope, 185 ft.to
33.90	Canyon, course NW. Ascend steep broken SW. slope,170 ft.
40.00	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap,
	1913 on S.rim,
	$\frac{1}{4}$ S 21 in N., and
	S 28 in S.half;
	and raise a mound of stone, 2 ft.base, 1$\frac{1}{2}$ ft. high,N. of corner. Pits impracticable.
40.20	Draw, course SW. Ascend W. slope, 335 ft.
46.00	Ascend SW. slope.
47.00	Head of gulch, course SW. Ascend W. slope.
52.00	Spur ridge, brs.S. Descend SE. slope, 30 ft.to
55.00	Head of gulch, course S. Ascend SW. slope, 360 ft.to
61.20	Spur ridge, brs.SW. Descend SE. slope,65 ft.to
67.00	Canyon, course SW. Ascend W. slope, 360 ft.to
80.00	Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs.21,22,27 and 28, marked on brass cap,
	1913 on S.rim,
	T 3 S R 30 E in N.half;
	S 21 in NW.,
	S 22 in NE.,
	S 27 in SE., and
	S 28 in SW.quadrant; from which,
	A cedar limb 6 ins. in diam., brs.S.67$\frac{1}{4}$°E.,63 lks.dist., marked T 3 S R 30 E S 27 B T.
	A cedar limb, 5 ins. in diam., brs.S.37$\frac{1}{2}$°W., 108 lks.dist.,marked T 3 S R 30 E S 28 B T.

6. Partial Subdivision of Township 3 South, Range 30 East.

Chains.

A cedar limb, 5 ins. in diam., brs.N.73½°W.,58
lks.dist., marked T 3 S R 30 E S 21 B T.
No other trees wihin limits. Raise a mound of stone, 2 ft.
base, 1½ ft.high, west of corner. Pits impracticable.
Land, mountainous and hilly.
Soil, rocky, 4th rate.
Timber., scattering cedar.
Undergrowth, dense scrub oak, catclaw, mesquite and cacti.
Mountainous land, 62 chs.

Feb. 10, 1914.

Feb. 21, 1914: At 9h. 8m., a.m.,l.m.t., I set off 33°8½'
N. on the lat.arc; 10°40½'S. on the decl.arc; and de-
termine a meridian wih the solar at the cor.of secs.
21,22,27 and 28.
Thence I run,
N.0°2'W., bet. secs.21 and 22.
Along west slope, through scattering timber, and dense
undergrowth.

27.00	Rim rock, brs.SE. and NW. Descend NE. slope, 700 ft.
40.00	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

1913 on S.rim,
¼ S 21 in W., and
S 22 in E.half; from which,
A cedar, 6 ins. in diam., brs.N.5½°E.,115 lks.
dist., marked ¼ S 22 B T.
A cedar, 5 ins. in diam., brs.N.6°W.,34 lks.
dist., marked ¼ S 21 B T.

49.00	Canyon, course NW. Ascend.SW. slope, 80 ft.to
55.00	Thence along broken west slope.
60.00	Ascend SW. slope, 60 ft.to
66.30	Rocky spur ridge, brs.NW. Descend N. slope, 90 ft.to
69.00	Gulch, course W. Ascend SW. slope, 35 ft.to
70.00	Spur ridge, brs.NW. Descend N. slope, 200 ft.to
77.80	Wash, course NW.; ascend.
78.50	Spur ridge, brs.NW.; descend.
78.80	Top of bluff, brs.E.and W.; descend 110 ft.to
80.00	Foot of bluff. Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs.15,16, 21 and 22, marked on brass cap,

1913 in S.rim,
T 3 S R 30 E in N.half;
S 16 in NW.,
S 15 in NE.,
S 22 in SE., and
S 21 in SW.quadrant; from which,
A cottonwood, 30 ins. in diam., brs.N.58°E.,54
lks.dist., marked T 3 S R 30 E S 15 B T.
No other trees wihin limits. Raise a mound of stone, 2
ftbase, 1½ ft. high, west of corner. Pits impractica-
ble.
Land, rolling, hilly and mountainous.
Soil, rocky, 4th rate.
Timber, scattering pine and cedar.
Undergrowth, dense scrub oak, mesquite, catclaw and cacti.
Mountainous land, 46 chs.

Feb.21, 1914.

Feb. 22, 1914: At 8h. 10m. a.m.,l.m.t., I set off 33°9½'
N.on the lat.arc; 10°19'S. on the decl.arc; and de-
termine a meridian with the solar at the cor.of secs.
15,16,21 and 22.
From this cor. the west end of line bet. secs.15 and 22,
passes over a steep broken N.slope, over which I cannot
chain; therefore, I obtain measurement as follows:

Chains.

From the cor. of secs. 15,16,21 and 22, I measure a base
line north 16.72 chs., and E. of said sec. cor., I set
a flag on line; from the north end of base line flag
brs. S. 23° 44' E.   Distance is therefore tan 23°44'
x 16.72 chs. = 7.35 chs.

7.35   Thence I continue east on true line, along broken north
slope.

11.50   Gulch, course N. Ascend NW. slope, 70 ft. to

15.75   Spur ridge, brs. N. Descend NE. slope, 45 ft. to

18.00   Gulch, course N. 2 chs. wide.
Ascend NW. slope, 560 ft. to

28.25   Spur ridge, brs. N. Thence along N. slope.

32.00   Gulch, course NW. Ascend SW. slope.

40.00   Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for ¼ sec. cor., marked on brass cap,
1913 on S. rim,
¼ S 15 in N., and
S 22 in S. half; from which,
A cedar, 8 ins. in diam., brs. N. 74¼°E., 18 lks.
dist., marked ¼ S 15 B T.
A cedar, 6 ins. in diam., brs. S 21°W., 45 lks.
dist., marked ¼ S 22 B T.

45.28   Instrument point on spur ridge, brs NW. Stadia across deep
broken box canyon, course NW. Mean of three rod read-
ings, 11.173 ft. Ratio, 1 ft. = 2.00 chs. Focal con-
stant, 1.025 ft.   Vertical angle, plus 16° 50'; the
distance is therefore .9161 x 2x11.173 plus .016 =
20.49 chs., which added to 45.28 chs. = 65.77 chs.

65.77   Rod point on steep west slope. Ascend W. slope, 40 ft. o
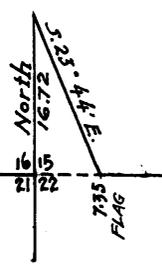
66.00   Spur ridge, brs. NW. Ascend slight NW. slope, 70 ft. to

76.25   Spur ridge, brs. NW. Thence along N. slope, to

80.00   Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins.
in the ground, for cor. of secs. 14,15,22 and 23, marked
on brass cap,
1913 on S. rim,
T 3 S R 30 E in N. half;
S 15 in NW.,
S 14 in NE., -
S 23 in SE., and
S 22 in SW. quadrant; from which,
A cedar, 6 ins. in diam., brs. S. 51°E., 117 lks.
dist., marked T 3 S R 30 E S 23 BT.
A cedar, 8 ins. in diam., brs. N. 14¼°W., 93 lks.
dist., marked T 3 S R 30 E S 15 B T.

No other trees within limits; raise a mound of stone, 2
ft. base, 1½ ft. high, west of corner. Pits impractica-
ble.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar and pine.
Undergrowth, scattering scrub oak and cacti.
Mountainous land, 80 chs.

Feb. 22, 1914.

- -

Feb. 23, 1914: At 9h. 5m. a.m., l.m.t, I set off 33°9½'.
N. on the lat. arc; 9°57'S. on the decl. arc; and de-
termine a meridian with the solar at the cor. of
secs. 14,15,22 and 23,
Thence I run,
East, on a true line, bet. secs. 14 and 23.
Through scattering timber and dense undergrowth.
Ascend NW. slope, 35 ft. o

4.00   Spur ridge brs. N. Descend NE. slope, 70 ft. to

11.75   Gulch, course NW. Ascend NW. slope, 390 ft.

28.00   Ascend slight NW. slope.

34.25   Rocky ridge, brs, NE. and SW. Descend steep SE. slope,
580 ft.

40.00   Set an iron post, 3 ft. long, 1 in. in dam., 26 ins. in

8.   Partial Subdivision of Township 3 South,Range 30 East.

Chains.	

	the ground, for ¼ sec.cor., marked on brass cap,
	    1913 on S.rim,
	    ¼ S 14 in N., and
	    S 23 in S.half; from whibh,
	    A cedar, 5 ins. in diam., brs.N.71½°W., 112
	      lks.dist, marked ¼ S 14 B T.
	    A cedar limb, 5 ins. in diam., brs.S 38°W., 78
	      lks.dist., marked ¼ S 23 B T.

56.00	Hickey Canyon, course NE. Trail in bottom, brs.NE· and SW. Ascend W. slope, 110 ft.to
59.00	Spur ridge, brs.NW. Descend NE· slope, 20 ft.
59.50	Wire fence brs.NW. and SE.
60.75	Gulch, course NW. Ascend west slope, 365 ft.to
69.00	Ascend NW. slope, to
74.00	Spur ridge, brs.N. Descend NE· slope, 185 ft.to

80.00	Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs. 13,14,23 and 24, marked on brass cap, 1913 in S.rim,
	    T 3 S R 30 E in N.half;
	    S 14 in NW·,
	    S 13 in NE·,
	    S 24 in SE., and
	    S 23 in SW quadrant; from which,
	    A juniper, 14 ins. in diam., brs.S.69¾°E.,105
	      lks.dist., marked T 3 S R 30 E S 24 B T.
	    An oak, 10 ins. in diam., brs.N.47½° W.,16
	      lks.dist., marked T 3 S R 30 E S 14 B T.

	No other tree wihin limits; raise a mound of stone 2 ft.base, 1½ ft. high, west of corner. Pits impracticable. Land, mountainous and hilly. Soil, rocky, 4th rate. Timber, scattering juniper, pine,cedar and oak. Undergrowth, dense scrub oak, catclaw and cacti. Mountainaus land, 70 chs.
	Feb. 23, 1914.
	- -
	Feb. 26,1914: At 8h. 59m., a.m.,l.m.t., I set off 33° 9½'N. on the lat.arc; 8°50½'S. on the decl.arc; and determine a meridian with the solar at the cor.of secs. 13,14, 23 and 24.
	Thence I run, East, on true line, bet. secs.13 and 24. Through scattering timber and dense undergrowth. Descend slight NE. slope, to
1.00	Gulch, course NW. Ascend SW. slope, 460 ft.to
12.00	Ascend NW. slope, to
16.00	Spur ridge, brs. N. Descend NE. slope, 120 ft.to
24.00	Gulch, course NW. Ascend NW· slope, 240 ft.to

40.00	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap, 1913 on S.rim,
	    ¼ S 13 in N., and
	    S 24 in S.half;
	and raise a mound of stone,2 ft. base, 1½ ft. high,N. of cor. Pits impracticable.
	Rocky ridge, brs. NE· and SW. Descend steep east slope, 510 ft.to

50.00	Canyon, course NE. Ascend NW· slope, 150 ft.to
62.60	Spur ridge, brs.N. Descend NE· slope, 40 ft.to
67.50	Gulch, course NW. Ascend steep west slope, 500 ft.to
79.50	Spur ridge brs.N. Descend NE· slope, to

80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor.of secs. 13,18, 19 and 24, on the east bdy. of the Tp., marked on brass cap, 1913 on S.rim,
	    T 3 S in N.half;
	    R 30 E S 13 in NW·,
	    R 31 E S 18 in NE·,

Chains.

                    S 19 in SE., and
                    S 24 in SW. quadrant;   from which,
              An oak, 6 ins. in diam., brs.N.68½°E., 87
                    lks.dist., marked T 3 S R 31 E S 18 B T.
              An oak, 7 ins.in diam., brsS.64½°E., 101
                    lks.dist., marked T 3 S R 31 E S 19 BT.
              A juniper, 10 ins. in diam., brs.S.19¼°W.,120
                    lks.dist., marked T 3 S R 30 E S 24 B T.
              An oak, 8 ins. in dim., brs.N.47½°W., 64
                    lks.dist., marked T 3 S R 30 E S 13 B T.
Land, mountainous and hilly.
Soil, rocky, 4th rate,
Timber, scattering oak, cedar, and juniper.
Undergrowth, dense scrub oak, catclaw and cacti.
Mountainous land, 72 chs.
                              Feb. 26, 1914.

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Feb. 23, 1914:
From the corner of secs. 13,14,23 and 24, hereinbefore de-
      scribed, I run,
N.0°1'W., bet. secs.13 and 14.
Through scattering timber and dense undergrowth. Descend
      broken N.slope, along canyon, 75 ft.to
0.85 | Gulch, course NW. Ascend slight SW. slope, to
2.00 | Spur ridge, brs.W.   Descend NW. slope to
4.00 | Gulch, course NE. Ascend SE. slope, 35 ft.to
8.00 | Spur ridge, brs.E. Descend NE. slope, 185 ft.to
15.00 | Gulch, course NW.   Ascend slight SW. slope, to
22.00 | Spur ridge, brs.NW. Descend NW. slope.
33.00 | Trail, brs.E.and W.
34.00 | Canyon, 125 lks.wide, course NE.   Ascend steep SE. slope,
       625 ft.
40.00 | Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in
       the ground, for ¼ sec.cor., marked on brass cap,
                   1913 on S.rim,
                   ¼ S 14 in W., and
                   S 13 in E.half; from which,
             A cedar limb, 7 ins. in diam., brs.S.39¾°E.,
                   105 lks.dist., marked ¼ S 13 B T.
             A cedar, 6 ins. in diam., brs.S.8°W.,91 lks.
                   dist, marked ¼ S 14 B T.
60.00 | Narrow, rocky ridge, brs.NE and SW.   Descend NW. slope,
       555 ft.
64.00 | Rock ledge brs.E.and W.
78.00 | Head of draw, course NW. Ascend slight SW. slope to
80.00 | Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in
       the ground, for cor.of secs.11,12,13 and 14, marked
       on brass cap,
                   1913 in S.rim,
                   T 3 S R 30 E in N.half;
                   S 11 in NW.,
                   S 12 in NE.,
                   S 13 in SE., and
                   S 14 in SW.quadrant;
and raise a mound of stone 2 ft.base, 1½ ft. high,
west of corner.   Pits impracticable.
Note: At this corner I set off 9° 54½'S. on the decl.
    arc; and at apparent noon, I observe the sun on the
    meridian; the resulting lat. is 33° 10½' N.
Land, mountainous and hilly.
Soil, roky, 4th rate.
Timber, scattering cedar and pine.
Undergrowth, dense scrub oak, mesquite, catclaw and cacti.
Mountainous land, 70 chs.
                              Feb.23,1914.

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10. Partial Subdivision of Township 3 South, Range 30 E.

Chains	
	Feb. 26, 1914:
	East, on a random line, bet. secs12 and 13.
40.00	Set temp.¼ sec.cor.
80.20	Intersect east bdy.of Tp., 14 lks.north of the cor.of secs. 7,12,13 and 18, established byme, as described in Book "A."
	Thence I run,
	N.89°54'W., on a true line, bet. secs.12 and 13.
	Along north slope, through scattering timber and undergrowth.
12.00	Descend NW· slope, 60 ftto
17.00	Gulch, course N. Ascend NE· slope, 30 ft.to
21.00	Spur ridge, brs.N. Descend NW· slope, 170ft.to
39.40	Rocky spur ridge, brs.NW. Descend steep west slope.
40.10	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap, 1913 on S.rim, ¼ S 12 in N., and S 13 in S.half; and raise a mound of stone, 2 ft.base, 1½ ft.high, N. of corner. Pits impracticable.
48.75	Trail, brs.NW. and SE.
49.50	Gulch, course NW. Thence along N. slope, to
54.00	Spur ridge, brs.NW. Descend W. slope, to
59.50	Rim rock, brs.NW and SE. Descend west slope, into Hickey Canyon.
61.00	Trail in canyon, brs.NE· andSSW.
61.20	Small stream of water 6 lks.wide, 3 ins. deep, course NE. Ascend steep east slope, 410 ft.to
69.00	Ascend SE· slope, to
78.20	Ridge, brs. N.and S. Descend W· slope, 20 ft.to
80.20	The cor,of secs.11,12,13 and 14.
	Land, rolling, hilly and mountainus .
	Soil, rocky, 4th rate.
	Timber, scattering cedar; cottonwood in Hickey Canyon.
	Undergrowth, scattering scrub oak, catclaw and caci.
	Mountainous land, 56 chs.
	Note: The sky was overcast at noon, making an observation for latitude impossible.
	Feb. 26, 1914.

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Chains	
	Feb. 27, 1914: At 9h. 3m., a.m.,l.m.t., I set off 33° 10½'N. on the lat.arc; 8°28'S. on the decl.arc; and determine a meridian with he solar at the cor.of secs. 11,12,13 and 14, hereinbefore described.
	Thence I run,
	N.0°1'W., bet. secs.11 and 12.
	Through scattering timber and dense undergrowth.
	Ascend SW. slope, 40 ft.to
3.50	Ridge, brs.NW· and SE. Descend east slope, 680 ftto
8.00	Thence along east slope.
10.00	Descend steep broken, NE· slope.
19.50	Top of bluff, brs.E.and W.
20.00	Foot of bluff. Descend N. slope.
32.00	Trail, braNW·and SE. Enter Hickey Canyon, course NW.
40.00	True point for ¼ sec.cor.falls in canyon;impractbisetlpost.
40.95	Ledge,brsNW·and SE.10 ft.high. Leave Hickey Canyon.
40.55	Set an iron post 3 ft.long, 1 in. in diam., 26 ins.in the ground, for witness cor. to ¼ sec.cor., marked on brass cap, 1913 on S.rim, W C ¼ in N.half; S 12 in SE., and S 11 in SW.quadrant; from which, A cottonwood, 36 ins. in diam., brs.N.19°E.,324 lks.dist., marked W C ¼ S 12 B T. A cottonwood,40 ins. diam., brs.N.19° W., 224 lks.dist., marked W C ¼ S 11 B T.
41.00	Enter San Francisco River bottom, brs.E·and W.

Partial Subdivision of Township 3 South, Range 30 East 11.

Chains.	
44.30	Wagon road, brs.E. and W.
45.55	South channel of San Francisco River, 50 lks.wide, 1 ft. deep, course SW.
46.80	Old road, brsE.and W.
49.15	North channel of river, 65 lks.wide, 1 ft.deep, course SW.
52.87	Foot ofbluff, bs.NE. and SW. Ascend SE. slope, 455 f.to
55.00	Spur ridge, brs.E.; descend.
57.00	Wash, course SE. Ascend SE. slope, to
68.00	Ascend SW. slope, to
80.00	Set an iron post, 3 ft.lng, 2 ins. in diam.,24 ins.in the ground, for cor.of secs. 1,2,11 and 12, marked onbrass cap,

> 1913 on S.rim,
> T 3 S R 30 E in N.half;
> S 2 in NW.,
> S 1 in NE.,
> S 12 inSE., and
> S 11 in SW.quadrant;

&araise a mound of stone, 2 ft. base, 1½ f. high west of cor. Pits impracticable.

Land, rolling, hilly and mountainous.
Soil, rocky, 4th rat .
Timber, scatering cedar and pine; cottonwood along river bottom.
Undergrowth, dense mesquite, scrub oak, catclaw and cacti.
Mountainous land, 52 chs.

S.89°54'E., on a random line, bet. secs.1 and 12.

40.00	Set temp.¼ sec.cor.
44.80	Rod point on bluff, brs.NW. and SE. Stadia across San Francisco River. Mean of three rod readings, 2.955 ft.; ratio. 1 ft.= 2 chs. Focal constant 1.025 ft.

Angle of depression _ 17° 24'. The distance is therefore .9106 x 2 x 2.955 plus .016 = 5.40 chs., which added to 44.80 chs. makes 50.20 chs.

50.20	Instrument point on sand bar.
64.20	Instrument point in river bottom. Stadia to top of perpendicular cliff on east side of river. Mean of three rod readings, 5.507 ft. Ratio 1 ft.= 2 chs. Focal constant, 1.025. Vertical angle, plus 22° 18'

The distance is therefore .8560 x 2 x 5.507 plus .016 = 9.44 chs., which added to 64.20 chs. = 73.64 chs.

73.64	Rod point on top of bluff.
80.20	Intersect east bdy.of the Tp., 23 lks.south of the cor. of secs.1,6,7 and 12, established by me, as described in Book "A."

Thence I run,
S.89°56'W., on a true line, bet. secs.1. and 12.
Through scattering timber and undergrowth. Descend W. slope, 200 ft.to

4.00	Descend NW. slope.
6.62	Top of bluff, brs.NE.and SW.
8.45	Foot of bluff, thence across San Francisco River bottom.
15.00	San Francisco River, 110 lks.wide, 2 ft. deep, course SW.
30.00	East side of San Francisco River, 3 chs.wide, 1 ft. deep, course NW.
35.40	Top of bluff, brs.NW. and SE. Ascend NE. slope, 200 ft.
40.10	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

> 1913 on S.rim,
> ¼ S 1 in N., and
> S 12 in S.half; from which,
> A cedar, 5 ins. in diam., brs.N.3°W., 42 lks. dist., marked ¼ S 1 B T.
> A cedar limb 8 ins. in diam., brs.S.28°W.,95 lks.dist., marked ¼ S 12 B T.

40.40	Trail, brs.NW. and SE.

12.   Partial Subdivision of Township 3 South, Range 30 East.

Chains.	
43.65	Spur ridge, brs.N. Descend W. slope, 300 ft.to
50.60	Foot of bluff, brs.NE° and SW. Thence across river bottom.
57.60	San Francisco River, 75 lks.wide, 2 ft. deep, course S.
	Gravel bottom and muddy water.
62.00	Road brs.NE° and SW.
62.45	Foot of bluff, brs.NE° and SW. Ascend SE. slope, 400 ft.to
80.20	The cor.of secs.1,2,11 and 12.

Land, level, rolling, hilly and mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar and cottonwood.
Undergrowth, scattering scrub oak, mesquite,catclaw and
    cacti.
Mountainous land, 45 chs.
Note:_ The sky was overcast at noon, making an observa-
    tion for latitude impossible.
                          Feb.27, 1914.

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March 3, 1914: At 7h. 59m. a.m., l.m.t., I set off
    33°11'N. on the lat.arc; 6°57'S. on the decl.arc;
    and determine a meridian with the solar at the cor.of
    secs. 1,2,11 and 12, hereinbefore described.
Thence I run,
N.0° 1'W., on a random line, bet. secs.1 and 2.

| 40.00 | Set temp.¼ sec.cor. |
| 80.17 | Intersect N.bdy.of the Tp., 9 lks.west of the cor.of secs. |

    1,2,35 and 36, established by me, as described in Book
    "A."
Thence I run,
S.0°3'W., on a true line,bet. secs.1 and 2.
Through scattering timber and dense undergrowth. Descend

40.00	SE.slope, 400 ft.to
80.17	
23.70	Gulch, course SW. Ascend NW. slope, 230 ft.to
31.45	Ascend slight NE. slope, to
37.20	Ridge, brs. NW and SE. Descend SW.slope, 30 ft.
40.17	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in

            the ground, for ¼ sec.cor., marked on brass cap,
                    1913 on S.rim;
                    ¼ S 2 in W., and
                    S 1 in E.half; from which,
                A cedar, 5 ins. in diam., brs.S.5½°E., 99 lks.
                    dist., marked ¼ S 1 B T.
                A cedar, 12 ins. in diam., brs.S.7½°W., 135
                    lks.dist., marked ¼ S 2 B T.

43.20	Wash, course W. Ascend NW. slope, 40 ft.to
48.00	Spur ridge, brs.W. Descend SW. slope, 30 ft.to
51.20	Wash, course W. Ascend NW° slope, 130 ft.to
59.80	Rocky ridge, brs.NE and SW. Thence along E° slope of
	ridge, to
80.17	The cor.of secs.1,2,11 and 12.

Land, hilly and mountainous.
Soil, rocky, 4th rate.
Timber,scattering cedar.
Undergrowth, dense scrub oak, mesquite, catclaw and cacti.
Mountainous land, 55 chs.
                          March 3, 1914.

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Feb. 22, 1914: At the cor.of secs. 14,15,22 and 23,I
    set off 10°16½'S. on the decl.arc; and at apparent
    noon, I observe the sun on the meridian; the resulting
    lat.is 33°9½' N.
Thence I run,
N.0°1'W., bet. secs.14 and 15.
Through scattering timber and dense undergrowth. Descend N.
    slope, 350 ft.to

| 12.50 | Gulch, course NW. Thence along west slope to |
| 14.00 | Spur ridge, brs.W.   Descend slight NW° slope, 150 ft.to |

Partial Subdivision of Township 3 South, Range 30 East   13.

Chains.	
23.50	Gulch, course NW. Ascend SW. slope, 120 ft.to
34.00	Spur ridge, brs.NW. Descend NE. slope, 325 ft.
40.00	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

1913 on S.rim,
¼ S 15 in W., and
S 14 in E.half; from which,
A cedar, 6 ins. in diam., brs.S.64½°E., 40 lks. dist., marked ¼ S 14 B T.
A cedar, 10 ins. in diam., brs.N.47½°W., 181 lks.dist., marked ¼ S 15 B T.

49.00	Descend N. slope, 425 ft.
60.00	Descend slight N. slope, along draw.
72.00	Top of ledge, brs.NW° and SE. Descend in wash, course N. into River bottom.
74.00	Enter San Francisco River bottom, brs.E°and W.
76.00	San Francisco River, 50 lks.wide, 3½ ft. deep, course W.
80.00	Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs. 10,11, 14 and 15, marked on brass cap,

1913 on S.rim,
T 3 S R 30 E in N.half;
S 10 in NW.,
S 11 in NE°,
S 14 in SE., and
S 15 in SW. quadrant; from which,
A willow, 8 ins. in diam., brs.S.83½°E., 194 lks.dist., marked T 3 S R 30 E S 14 B T.
An ash, 14 ins. in diam., brs.S.69½°W., 75 lks.dist., marked T 3 S R 30 E S 15 B T.

No other trees within limits; raise a mound of stone 2 ft.base, 1½ ft. high, west of cor. Pits impracticable.
Land, rolling- hilly and mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar, pine, willow and cottonwood.
Undergrowth, scattering mesquite, catclaw and cacti.
Mountainous land, 64 chs.

Feb.22, 1914.

Feb.23, 1914:
East, on a random line, bet. secs.11 and 14.

| 40.00 | Set temp.¼ sec.cor. |
| 80.08 | Intersect N·and S. line, 5 lks.S. of the cor.of secs.11, 12,13 and 14, hereinbefore described. |

Thence I run,
S.89°58'W., on a true line, bet. secs.11 and 14.
Through scattering timber and undergrowth. Descend SW.° slope 620 ft.

25.15	Wash, course NW. Continue to descend NW. slope.
31.63	Hansford's house, brs.N.32°W.
32.00	Spur ridge, brs.NW. Descend W. slope to
37.75	Gulch, course NW. Ascend NE. slope.
40.04	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

1913 on S.rim, ¼ S 11 in N.,
S 14 in S.half; from which,
A mesquite 6 ins. in diam., brs.N.30¼°W.,88 lks. dist., marked ¼ S 11 BT.
A cedar, 8 ins. in diam., brs.S.70°W., 34 lks. dist., marked ¼ S 14 B T.

Hansford's house brs.N.18°W.

41.45	Spur ridge, brs.NW. Descend SW. slope, 110 ft.to
50.00	Enter San Francisco River bottom, brs.NE° and SW.
52.85	Wagon road brs. NE and SW.
56.35	Wagon road brs.NW and SE.
58.70	San Francisco River, 130 lks.wide, 18 ins. deep, course SW.
64.00	Wagon road brs.NE° and SW.

14. Partial Subdivision of Township 3 South, Range 30 East.

Chains.	
68.50	Wagon road, brs. NW. and SE.
80.08	The cor. of secs. 10, 11, 14 and 15.
	Land, rolling, hilly and mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering pine, cedar, cottonwood and willow.
	Undergrowth, scattering mesquite, catclaw and scrub oak.
	Mountainous land, 60 chs.

<div align="right">Feb. 23, 1914.</div>

Feb. 25, 1914: At 8h. 58m. a.m., l.m.t., I set off 33°10½'
N. on the lat. arc; 9°12½'S. on the decl. arc; and de-
termine a meridian with the solab at the cor. of secs.
10, 11, 14 and 15, hereinbefore described.
Thence I run,
N.0°1'W., bet. secs. 10 and 11. Through scattering timber
and dense undergrowth.

3.70	Wagon road, brs. E. and W.
4.75	Foot of bluff, brs. E. and W. Ascend SE. slope, 750 ft. to
25.50	Ridge. brs. NE and SW. Descend NW. slope, 80 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap,

<div align="center">1913 on S. rim,
¼ S 10 in W., and
S 11 in E. half; and raise a mound of stone</div>

2 ft. base, 1½ ft. high, west of cor. Pits impracticable.
Thence along broken west slope to

44.00	Draw, course SW.; ascend.
48.00	Spur ridge, brs. SW.; descend.
54.00	Draw, course SW. Ascend SW. slope, 50 ft. to
65.00	Ridge, brs. E. and W. Descend NW. slope, to
70.00	Head of draw, course W. Ascend SW. slope 150 ft. to
79.50	Ridge, brs. NW and SE. Thence along east slope, to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked on brass c ap,

<div align="center">1913 on S. rim,
T 3 S R 30 E in N. half;
S 3 in NW.,
S 2 in NE.,
S 11 in SE., and
S 10 in SW. quadrant;</div>

and raise a mound of stone, 2 ft. base, 1½ ft. high,
W. of cor. Pits impracticable.
Note: At this corner, I set off 9°10' S. on the decl.
arc; and at apparent noon, I observe the sun on
the meridian, the resulting latitude is 33° 11'
North, course SW.

Land, rolling, hilly and mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar, and pine.
Undergrowth, dense scrub oak, mesquite, catclaw and cacti.
Mountainous land, 54 chs.

<div align="right">March 4, 1914.</div>

Feb. 21, 1914: At apparent noon, I set off 10° 38'S. on
the decl. arc; and observe the sun on the meridian at the
cor. of secs. 15, 16, 21 and 22, hereinbefore described;
the resulting lat. is 33° 9½'N.
Thence I run,
N.0°2'W., bet. secs. 15 and 16.
Across river bottom, through dense undergrowth.

1.75	Small stream of water, 2 lks. wide, course W.
4.35	Wagon road brs. NE. and SW.
5.10	San Francisco River, 100 lks. wide, 3 ins. to 2 ft. deep, course SW.

Chains.	
	N.89°58'E., on a random line, bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
80.20	Intersect N.and S.line, 9 lks.S.of cor.of secs.1,2,11 and 12, hereinbefore described.
	Thence I run, S.89°54'W.on a true line, bet.secs.2 and 11.
	Through scattering timber and dense undergrowth. Descend SW. slope, 295 ft.to
15.20	Box Canyon, course S. Ascend E. slope, 75 ft.to
20.20	Thence along south slope.
37.00	Descend broken S. slope, to
39.85	Wash, 60 lks.wide, course SE.
40.10	Point for ¼ sec.cor. falls in wash. Impracticable to set post.
40.70	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for witness cor. to ¼ sec.cor., marked on brass cap,
	1913 on S.rim,
	W C ¼ in E.half;
	S 2 in NW., and
	S11 in SW. quadrant;
	and raise a mound of stone, 2 ft.base, 1½ ft. high, north of cor. Pits impracticable.
	Ascend NE. slope, 90 ft.to
44.00	Spur ridge, brs.S. Descend SW. slope, 70 ft.to
53.20	Gulch, course S. Ascend SE. slope, 435 ft.to
65.20	Wash, course SE. Ascend E. slope, to
80.20	The cor.of secs.2,3,10 and 11.
	Land, rolling, hilly and mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar.
	Undergrowth, dense mesquite, catclaw, scrub oak and cacti.
	Mountainous land, 48 chs.
	Feb. 25, 1914.

	March 4, 1914.
	N.0°1'W., on a random line, bet. secs.2 and 3.
40.00	Set temp.¼ sec.cor.
79.90	Intersect N.bdy.of Tp.,24 lks.west of the cor.of secs.2,3, 34 and 35, established by me, as described in Book "A."
	Thence I run,
	S.0° 9'W., on a true line, bet. secs.2 and 3.
	Through scattering timber and dense undergrowth. Ascend slight NE. slope, 25 ft.to
2.00	Spur ridge, brs.E. Descend SE. slope, 15 ft.
4.00	Trail, brs. NE. to Pigeon Creek, and SW.
7.00	Gulch, course NE. Ascend NW.slope,265 ft.to
23.00	Ridge, brs.NW.and SE. Descend SW.slope,60 ft.to
34.00	Wash,course W. Ascend NW.slope,30 ft.to
39.90	Set an iron post 3 ft.long,1 in. in diam.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,
	1913 on S rim,
	¼ S 3 in W., and
	S2 in E.half;
	and raise a mound of stone 2 ft.base,1½ ft.high,W of cor.
	Pits impracticable.
	Ascend NW. slope,130 ft.to
56.00	Thence along west slope to
62.00	Descend SE. slope,190 ft.to
75.90	Head of wash,course SE. Thence along east slope to
79.90	The cor.of secs.2,3,10 and 11.
	Land, rolling,hilly and mountainous.
	Soil,rocky, 4th rate.
	Timber, scattering cedar.
	Undergrowth,dense scrub oak,mesquite,catclaw and cacti.
	Mountainous land,32 chs. March 4,1914.

	Feb.21,1914: At apparent noon,I set off 10°38'S.on the decl.arc;and observe the sun on the meridian at the cor. of secs. 15,16,21 and 22,hereinbefore described; the resulting lat.is 33° 9½'N. Thence I run,
	N.0° 2'W., bet. secs.15 and 16.
	Across river bottom,through dense undergrowth.

16. Partial Subdivision of Township 3 South, Range 30 East.

Chains	
1.75	Small stream of water,2 lks.wide,course W.
4.35	Wagon road, brs.NE° and SW.
5.10	San Francisco River,100 lks.wide,3 ins.to 2 ft.deep,course SW.
	Leave river bottom; ascend ridge,brs.S.160 ft.to
16.00	Ascend very slight south slope.
37.00	Wash,course SW. Ascend south slope to
40.00	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor.,marked on brass cap,
	1913 on S.rim,
	¼ S 16 in W.,and
	S 15 in E.half; from which,
	A cedar,8 ins.in diam.,brs.N.66½°E.,36 lks. dist.,marked ¼ S 15 B T.
	A cedar, 6 ins. in diam.,brs.S 21°W.,44 lks. dist., marked ¼ S 16 B T?
	Ascend SE· slope, 25 ft.to
46.35	Rod point on south point of deep box canyon,course SE.
	Stadia across; mean of three rod readings,6.742 ft.Ratio, 1 ft.= 2 chs. Focal constant,1.025 ft. Angle of depression - 10°28'. The distance is therefore,.9670 x 2 x 6.742 plus .016 = 13.05 chs., which added to 46.35 chs. = 59.40 chs.
59.40	Instrument point. Ascend SW· slope, 55 ft.to
63.85	Rock spur ridge,brs.W. Descend NW: slope,50 ft.to
72.35	Gulch, course SW. Ascend SW· slope, 65 ft.to
76.00	Thence along west slope, to
79.75	Wash, course SW.; ascend.
80.00	Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs. 9,10,15 and 16, marked on brass cap, 1913 on Srim,
	T 3 S R 30 E in N.half;
	S 9 in NW·,
	S 10 in NE·,
	S 15 in SE., and
	S16 in SW.quadrant;
	and raise a mound of stone, 2 ft. base, 1½ ft. high,W. of cor. Pits impracticable.
	Land,level, hilly and mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar.
	Undergrowth, dense mesquite, catclaw and cacti.
	Mountainous land, 22 chs.
	Feb.21, 1914.

	Feb.23,1914:
	East,on a random line,bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
80.22	Intersect N and S.line,16 lks.south of the cor.of secs. 10,11,14 and 15,hereinbefore described.
	Thence ¹ run,
	S.89°53'W.,on a true line,bet. secs.10 and 15.
	Over level river bottom,through scattering timber and dense undergrowth.
14.00	Wagon road brs.N.and S.
14.50	Foot of bluff,brs.S.70°W.and N.70°E.
	Ascend SE. slope of bluff,85 ft.to
19.00	Rocky spur ridge,brs.SE. Descend SW· slope ,55 ft.to
24.00	Gulch course S. Ascend E· slope,55 ft.to
26.15	Spur ridge,brs.S. Descend SW· slope, 80 ft.to
31.50	Center of gulch, 6 chs.wide, course south.
35.25	Trail brs. N.and S.
36.00	Ascend east slope, 125 ft.to
39.50	Spur ridge,brs.S· Ascend SE· slope.
40.11	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground,for ¼ sec.cor.,marked on brass cap,
	1913 on S.rim,
	¼ S 10 in N., and
	S 15 in S.half;

Chains.	
	and raise a mound of stone 2 ft.base, 1½ ft. high,N. of cor. Pits impracticable.
43.00	Spur ridge, brs.S. Descend SW. slope, 90 ft.to
45.00	Top of bluff brs.N.and S.
45.25	Foot of bluff. Enter Sardine Canyon, 4.75 chs.wide,course S.
50.00	Leave canyon; ascend east slope, 410 ft.to
62.20	Foot of bluff, brs.NE* and SW., 80 ft.high.
62.90	Top of bluff. Ascend SE. slope, to
66.00	Ridge, brs.NE* and SW. Descend W. slope, 70 ft.to
79.90	Wash, course SW.; ascend.
80.22	The cor.of secs.9,10,15 and 16.
	Land, level, rolling, hilly and mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar and cottonwood.
	Undergrowth,dense mesquite, catclaw and cacti.
	Mountainous land, 48 chs.
	Feb. 23, 1914.
	- -
	Feb. 24, 1914: At 8h.50m.a.m., l.m.t., I set off 33°10½' N.on the lat.arc; 9°35"S. on the decl.arc; and determine a meridian with the solar at the cor.of secs. 9,10,15 and 16, hereinbefore described.
	Thence I run,
	N.0°2'W., bet. secs.9 and 10.
	Through scattering timber and dense undergrowth. Ascend south slope, 180 ft.to
7.75	Spur ridge, brs.SE. Descend NE. slope, 90 ft.to
12.00	Gulch, course E. Ascend SE slope, 50 ft.to
17.20	Wash, course NE. Ascend slight SE. slope, 25 ft.to
30.00	Spur ridge, brs. E. Descend N. slope, 30 ft.
31.64	Instrument point for stadia. Stadia across Sardine Box Canyon, course SE. Mean of three rod readings, 4.583 ft. Ratio, 1 ft.= 2 chs. Focal constant,1.025 ft. Angle of depression - 8°20'. Dist. to rod is therefore, .9790 x 2 x 4.583 plus .016 = 8.99 chs., which added to 31.64 chs.= 40.63 chs. rod point. Stadia again from same instrument point to a point for witness cor. to ¼ sec.cor. Mean of three rod readings, 4.186 ft. Ratio, 1 ft. = 2 chs. Focal constant, 1.025 ft. Angle of depression - 14°30'. Dist. to rod is therefore..9373 x 2 x 4.186 plus .016 = 7.86 chs., which added to 31.64 chs. = 39.50 chs.
39.50	Rod point at foot of cliffs where I set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for witness cor.to ¼ sec.cor., marked on brass cap,
	1913 on S.rim,
	W C ¼ in N.half;
	S 10 in SE., and
	S 9 in SW.quadrant;
	and raise a mound of stone 2 ft.base, 1½ ft. high,west of cor. Pits impracticable.
40.63	Rod point on top of rocky cliff, brs. NE* and SW.
42.60	Instrument point for stadia across box canyon,course SE. Mean of three rod readings, 5.185 ft. Ratio, 1 ft. = 2 chs. Focal constant, 1.025 ft. Vertical angle,plus 12°24'. Dist. to rod is therefore, .9539 x 2 x 5.185 plus.016 = 9.89 chs., which added to 42.60 chs. = 52.49 chs.
52.49	Rod point on top of rock cliff, brs E.and W.
	Ascend SE. slope, 270 ft.to
66.35	Ridge, brs.NE* and SW. Descend NW. slope.
72.00	Head of gulch, course W. Ascend SW. slope, 125 ft.to
80.00	Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins.in the ground, for cor.of secs.3,4,9 and 10, marked on brass cap,
	1913 on S.rim,
	T 3 S R 30 E in N.half;

Chains.	
	S 4 in NW.,
	S 3 in NE.,
	S 10 in SE., and
	S 9 in SW. quadrant;
	and raise a mound of stone, 2 ft.base, 1½ ft. high, west of cor. Pits impracticable.
	Land, mountainous and hilly.
	Soil, rocky, 4th rate.
	Timber, scattering cedar and pine.
	Undergrowth, dense scrub oak, mesquite, catclaw and cacti.
	Mountainous land, 56 chs.
	- -
	N.89° 53' E., on a random line, bet. secs.3 and 10.
40.00	Set temp.¼ sec.cor.
40.40	Instrument point on west edge of box canyon, across which I stadia. Mean of three rod readings, 4.664 ft.Ratio, 1 ft. = 2 chs. Focal constant, 1.025 ft. Vertical angle plus 6°10' Dist. to rod is therefore .9885 x 2 x 4.664 plus .016 = 9.24 chs. which added to 40.40 chs. = 49.64 chs.
49.64	Rod point on east edge of box canyon.
80.12	Intersect N and S. line, 7 lks.N.of the cor. of secs.2,3, 10 and 11, hereinbefore described.
	Thence I run,
	S.89°56'W., on a true line, bet. secs. 3 and 10.
	Through scattering timber and dense undergrowth. Descend SW.slope, 425 ft.to
6.60	Wash, course S. Continue to descend SW. slope.
17.60	South end of rocky spur ridge; continue to descend SW.slope.
30.50	East edge of Ora Hanna box canyon, course S.
34.00	(Approx). center of Ora Hanna box canyon, course S. Trail brs.N.and S.
39.70	West side of box canyon, on spur ridge, brs.SE. Descend SW. slope.
40.06	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,
	1913 on S.rim,
	¼ S 3 in N., and
	S 10 in S.half;
	and raise a mound of stone, 2 ft.base, 1½ ft. high, N. of corner. Pits impracticable.
42.00	Wash, course SE. Ascend NE. slope, 250 ft.to
48.00	Foot of bluff, brs.N.and S.
48.85	Top of bluff, brs.N.and S.; ascend.
52.10	Ridge, brs N.and S. Descend W. slope, 80 ft.to
56.10	Gulch, course SW. Ascend SE. slope, 100 ft.to
64.10	Spur ridge, brs.S. Descend SW. slope, to
67.00	Wash, course S. Ascend SE. slope, 40 ft.to
70.00	Spur ridge, brs.S. Descend SW.slope, 30 ft.to
73.35	Gulch, course SE. Ascend SE. slope, 150 ft.to
80.12	The cor.of secs.3,4, 9 and 10.
	Note: At this corner, I set off 9° 32½' S.on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 33° 11'N.
	Land, mountainous and hilly.
	Soil, rocky, 4th rate.
	Timber, scattering cedar and pine.
	Undergrowth, dense scrub oak, catclaw, mesquite and cacti.
	Mountainous land, 72 chs.
	- -
	N.0°2' W., on a random line, bet. secs.3 and 4.
4.00	Instrument point for stadia across canyon, course SW.

18. Partial Subdivision of Township 3 South, Range 30 East.

Chains	
	Mean of three rod readings, 3.570 ft. Ratio, 1 ft.= 2 chs. Focal constant, 1.025 ft. Vertical angle +1° Dist.to rod is therefore, .9997 x 2 x 3.570 plus .016 = 7.15 chs., which added to 4.00 chs.= 11.15 chs.
11.15	Rod point on steep SW. slope.
40.00	Set temp.¼ sec.cor.
62.54	Rod point for stadia on ledge, brs.NW. and SE. Stadia over box canyon, course SE. Mean of three rod readings, 7.586 ft. Ratio 1 ft.= 2 chs. Focal constant 1.025 ft. Level. Dist. to instrument is therefore, 7.586 x 2 plus .016 = 15.19 chs., which added to 62.54 chs. = 77.73 chs.
77.73	Instrument point on ridge, brs.NW. and SE.
79.98	Intersect the N. bdy. of the Tp., 19 lks.west of he cor. of secs.3,4,33 and 34, established by me, as described in Book "A."
	Thence I run,
	S.0°6'W., on a true line, bet. secs.3 and 4.
	Through scattering timber and dense undergrowth. Ascend NE. slope, 35 ft. to
2.25	Ridge, brs.NW.and SE. on north side of box canyon, course SE.
17.44	Ledge brs.NW. and SE. Ascend NE. slope, 40 ft.to
19.00	Spur ridge, brs.NE. Descend SE. slope, 375 ft.
25.00	Spur ridge, brs.SE. Descend SE. slope.
32.50	Gulch, course SE.; ascend.
36.00	Spur ridge, brs.E. Descend.
38.00	Gulch, course east. Ascend NE. slope, 20 ft.to
39.98	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap, 1913 on S.rim, ¼ S 4 in W., and S 3 in E.half; from which, A cedar, 6 ins. in diam., brs.N.64°E., 24 lks. dist., marked ¼ S 3 B T. A pine,12 ins. in diam., brs. S.75¼°W., 78 lks. dist., marked ¼ S 4 B T.
	Ascend NE. slope, 30 ft.to
41.30	Spur ridge, brs.NE. Descend SE. slope, 15 ft.to
43.00	Gulch, course NE. Ascend NW. slope, 145 ft.to
51.00	Ridge, brs.E.and W. Descend SW. slope, 20 ft.to
54.00	Head of draw, course SW. Ascend slight NW. slope,35 ft.to
68.00	Spur ridge, brs.W. Descend.
68.85	North side of box canyon, course SW.
76.00	South side of box canyon. Ascend NW. slope, 35 ft.to
78.25	Ridge, brs.NE.and SE. Descend SE. slope, 20 ft.to
79.98	The cor.of secs. 3,4,9 and 10.
	Land, mountainous and hilly.
	Soil, rocky, 4th rate.
	Timber, scattering cedar and pine.
	Undergrowth, dense scrub oak, mesquite,catclaw and cacti.
	Mountainous land, 60 chs.
	Feb. 24, 1914.

	Feb.10, 1914: At apparent noon, I set off 14° 25'S.on the decl.arc; and observe the sun on the meridian with the solar at the corner of secs.20,21,28 and 29,hereinbefore described; the resulting lat.is 33°8½'N.
	Thence I run,
	N.0°2'W., bet. secs. 20 and 21.
	Through scattering timber and dense undergrowth. Descend N.slope, 250 ft.to
7.60	Enter level river bottom.
9.80	Wagon road, brs.NE. and SW.
11.70	San Francisco River, 60 lks.wide, 2 ft.deep, course SW.
12.30	Perpendicular cliff, 125 ft.high, at north edge of water.
15.95	Top of bluff; descend NW. slope, 40 ft.to
22.00	Gulch, course SW. Ascend S. slope, 115 ft.to

141

Chains.	
28.00	Spur ridge, brs.SW. Descend N. slope, 15 ft.to
33.00	Gulch, course SW. Ascend SW. slope, 155 ft.to
40.00	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

1913 on S.rim,
¼ S 20 in W., and
S 21 in E.half;
and raise a mound of stone 2 ft.base, 1½ ft. high,west of corner. Pits impracticable.
Ascend slight NW. slope, 15 ft.to

41.50	Ridge, brs.NW. and SE. Descend N. slope, 415 ft.to
45.00	Head of draw, course NE. Descend NE. slope, to
62.65	Silver Creek Canyon, course E. Ascend SE. slope, 140 ft. to
67.35	Spur ridge, brs.SE. Descend NE. slope; instrument point.

Thence by stadia measurement across box canyon, course E.
Mean of three rod readings, 6.635 ft. Ratio, 1 ft.= 2 chs.
Focal constant, 1.025 ft. Vertical angle,+8° 26'. Dist.
to rod point is therefore,.9785 x 2 x 6.635 plus .016
= 13.00 chs., which added to 67.35 chs.= 80.35 chs.=
rod point on cliffs, bear NW. and SE. True point for
corner falls on cliffs; impossible to set post;therefore,
Set rod at a point at foot of cliffs for position of wit-
ness corner, and measure by stadia from instrument
point on spur ridge at 67.35 ch. point. Mean of three
rod readings, 5.241 ft. Ratio1ft. = 2 chs. Focal
constant, 1.025 ft. Angle of depression, -1° 30'
Dist. to rod point is therefore, .9993 x 2 x 5.241plus
.016= 10.49 chs., which added to 67.35 chs. = 77.84
chs.

| 77.84 | Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for witness cor. to cor.of secs.16,17,20 and 21, marked on brass cap, |

1913 on S.rim,
W C S of center,
T 3 S R 30 E in N.half;
S 17 in NW.,
S 16 in NE.,
S 21 in SE., and
S 20 in SW.quadrant; from which,
A cedar limb, 6 ins. in diam., brs.N.45¼°W., 8
lks.dist., marked W C T 3 S R 30 E S 17 BT.
No other trees within limits. Raise a mound of stone, 2
ft.base, 1½ ft. high, west of cor. Pits impracticable.
Land, mountainous and hilly.
Soil, rocky, 4th rate.
Timber, scattering cedar.
Undergrowth, dense mesquite, catclaw, cacti, and scrub oak.
Mountainous land, 58 chs.

Feb. 10, 1914.

Feb. 14, 1914: At 9h. 50m. a.m., l.m.t., I set off 33°
9½'N. on the lat.arc; 13°7'S. on the decl.arc, and
determine a meridian with the solar at the witness
corner to cor.of secs. 16,17,20 and 21, which is
2.16 chs. S.0°2' E.of true corner point.
From true point for corner of secs.16,17,20 and 21, in
Box Canyon, course E., I run,
East, on a random line, bet. secs. 16 and 21.

| 40.00 | Set temp.¼ sec.cor. |
| 79.90 | Intersect N.and S. line, 9 lks.S.of the cor.of secs.15, 16,21 and 22, hereinbefore described. |

Thence I run,
S.89°56'W., on a true line, bet. secs.16 and 21.
Through scattering timber and undergrowth. Ascend E.slope, 85 ft.to

1.35	Spur ridge, brs.N. Descend W. slope, to
5.00	Gulch, course N. Ascend NE. slope, 70 ft.to
11.20	Spur ridge, brs.N. Descend NW. slope, 80 ft.to

20.   Partial Subdivision of Township 3 South, Range 30 East.

Chains	
20.00	Enter river bottom, brs.NE and SW. Mexican's cabin brs.N. about .8 chs.dist.
28.80	San Francisco River, 100 lks.wide, 2 ft.deep, course SW.
32.00	Enter wagon road, brs.ENE.
36.00	Leave wagon road, brs.SW.
39.95	Set an iron post 3 ft.long, 1 in. in diam., 26 ins.in the ground, for ¼ sec.cor., marked on brass cap, 1913 on S.rim, ¼ S 16 in N., and S 21 in S.half; from which, A cottonwood, 20 ins. in diam., brs.S.26°E., 54 lks.dist., marked ¼ S 21 B T. No other trees within limits. Raise a mound of stone,2 ft.base, 1½ ft.high,north of cor. Pits impracticable.
43.65	San Francisco River, 235 lks. wide, 3 ins. to 2 ft.deep, course NW. Wagon road in river, brs.NW. and SE.
47.60	Wagon road, brs.NE. and SW.
56.00	San Francisco River, 150 lks.wide, 2 ft.deep, course SW. Ascend E. slope, 430 ft.to
74.65	Spur ridge, brs.SE. Descend SW. slope, 120 ft.to
79.90	The pointfor cor.of secs.16,17,20 and 21, in box canyon, course east, 2.16 chs. N.0°2' W. from witness cor. Land, rolling, hilly and mountainous. Soil, rocky, 4th rate. Timber, scattering cedar. Undergrowth, dense mesquite, catclaw and cacti. Mountainous land, 42 chs. Note: At the witness cor. to cor.of secs. 16,17,20 and 21, I set off 13° 5 S. on the decl.arc; and at apparent noon,I observe the sun on the meridian; the resulting lat is 33° 9½° N.

	N.0°2'W., bet. secs. 16 and 17, by stadia measurement from top of spur ridge at 67.35 ch.point on line bet. secs.20 & 21 to, rod at a pt. 35 lks.N.0°2'W .of cor.pt.
0.35	Rod point on cliff, thence by stadia measurement,over broken canyon and cliff. Mean of three rod readings, 1.820 ft. Ratio 1 ft.= 2 chs. Focal constant, 1.025 ft. Angle of depression, 7° 55' Dist. to instrument pointis therefore .9811 x 2 x 1.820 plus .016 = 3.57 chs., which added to 0.35 chs.= 3.92 chs.
3.92	Instrument point on ridge; ascend SW. slope, 60 ft.to
5.00	Spur ridge, brs.SW. Descend to
6.00	Gulch,course SW. Ascend to
8.14	Rod pointon spur ridge, brs.SW.; thence by stadia measurement across deep box canyon, course SW. Mean of three rod readings, 3.986 ft. Ratio 1 ft.= 2 chs. Focal constant 1.025 ft. Angle of depression, 10° 32' Dist. to instrument point is therefore,.9666 x 2 x 3.986 plus .016 = 7.72 chs., which added to 8.14 chs. = 15.86 chs.
15.86	Instrument point on spur ridge, brs.SW. thence by stadia measurement across box canyon, course SW. Mean of three rod readings, 2.710 ft. Ratio 1 ft.= 2 chs. Focal constant 1.025 ft. Level. Dist.to rod point is therefore, 2.710 ft. x 2 + .016 = 5.44 chs., which added to 15.86 chs. = 21.30 chs.
21.30	Rod point on steep south slope. Ascend S. slope, 90 ft.to
25.75	Ridge brs.NW. and SE. Descend NE. slope, 45 ft.to
30.00	Rod point. Thence by stadia measurement across deep box canyon, course SE. Mean of three rod readings, 6.190 ft. Ratio 1 ft.= 2 chs. Focal constant, 1.025 ft. Vertical angle plus 6°10'. Dist. to instrument point is therefore, .9885 x 2 x 6.190 plus .016 = 12.25 chs., which added to 30.00 chs. = 42.25 chs.

Chains.	
42.25	Instrument point on short spur ridge brs. W. The true pt. for ¼ sec cor. at 40.00. falling in inaccessible place, at this point, I set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness cor. to ¼ sec. cor., marked on brass cap,
	1913 on S. rim,
	W C ¼ on N. half;
	S 16 in SE., and
	S 17 in SW. quadrant;
	and raise a mound of stone 2 ft. base, 1½ ft. high, west of corner. Pits impracticable. Set rod at this corner and make stadia measurement over broken W. slope.
	Mean of three rod readings, 3.041 ft. Ratio 1 ft. = 2 chs. Focal constant, 1.025 ft. Vertical angle, plus 6°. Dist. to instrument point is therefore, .9891 x 2 x 3.041 plus .016 ± 6.03 chs., which addded to 42.25 chs. = 48.28 chs.
48.28	Instrument point. Ascend S. slope, 115 ft. to
52.00	Spur ridge, brs. SW. Descend NW. slope, 85 ft. to
53.00	Wash, course SW. Ascend S. slope, 20 ft to
57.50	Spur ridge, brs. SW. Ascend SW. slope, 15 ft. to
63.50	Spur ridge, brs. SW. Descend NW. slope, 190 ft. to
70.65	Gulch, course SW. Ascend SE. slope, 75 ft. to cor.
77.45	Trail, brs. E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on brass cap,
	1913 on S. rim,
	T 3 S R 30 E on N. half;
	S 8 in NW.,
	S 9 in NE.,
	S 16 in SE., and
	S 17 in SW. quadrant;
	and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar and pine.
	Undergrowth, scattering scrub oak, catclaw, mesquite and cacti.
	Mountainous land, 80 chs.
	Feb. 14, 1914.
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	Feb. 20, 1914: At 9h. 4m., a.m., l.m.t., I set off 33°10½' N. on the lat. arc; 11°2'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 8, 9, 16 and 17.
	Thence I run,
	N. 89°56'E., on a random line, bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 9, 10, 15 and 16, hereinbefore described.
	Thence I run,
	S. 89°53'W., on a true line, bet. secs. 9 and 16.
	Through scattering timber and undergrowth. Ascend SE. slope, 40 ft. to
4.00	Thence along south slope, to
8.00	Wash, course SE. Ascend SE. slope, 55 ft. to
14.00	Spur ridge, brs. S. Descend broken SW. slope, to
18.00	Gulch, course S.; ascend,
20.00	Spur ridge, brs. S.; descend.
21.75	Gulch, course S.; ascend.
24.00	Spur ridge, brs. S.; descend.
25.90	Gulch, course SE. Ascend NE. slope, 35 ft. to
29.00	Spur ridge, brs. N. Descend W. slope, to
36.60	Gulch, course NE. in draw, course E. Ascend E. slope, 135 ft. to

22. Partial Subdivision of Township 3 South, Range 30 East.

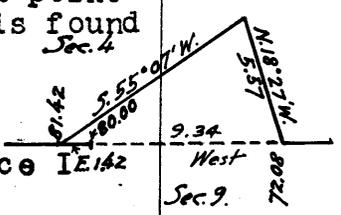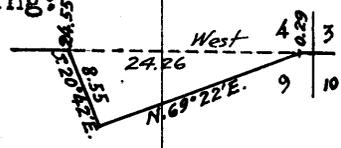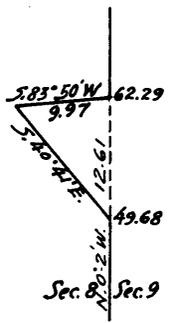| Chains	
40.05	Set an iron post 3 ft.long, 1 in.in diam., 26 ins. in the ground,for $\frac{1}{4}$ sec.cor., marked on brass cap, 1913 on S.rim, $\frac{1}{4}$ S 9 in N., and S 16 in S.half; and raise a mound of stone, 2 ft.base, 1$\frac{1}{2}$ ft. high.N.of corner. Pits impracticable. Ascend east slope, 255 ft.to
45.80	Foot of bluff, brs.NW·and·SE.
46.60	Top of bluff, brs.NW·and SE. Descend SW. slope, 40 ft.to
56.00	Wash, course SE. Ascend NE· slope, 40 ft.
60.10	Trail, brs.NE and SW.
61.50	Ridge, brs.N.and S. Descend west slope, 55 ft.to
63.35	Gulch, course SW. Ascend SE. slope, 20 ft.to
68.40	Spur ridge, brs.SW· Descend NW. slope, 55 ft.to
72.10	Wash, course SW. Ascend SE· slope, 60 ft.to
73.10	Spur ridge, brs.S. Thence along broken S·.slope.
73.90	Trail,brs.NW· and SE.
74.40	Wash, course S.; ascend.
74.85	Trail, brs.NE· and SW.
80.10	The cor.of secs.8,9,16 and 17. Note: At this corner, I set off 10° 59$\frac{1}{2}$'S. on the decl.. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat.is 33° 10$\frac{1}{2}$' N. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering cedar. Undergrowth, scattering mesquite, catclaw and cacti. Mountainous land, 80 chs. Feb. 20, 1914.

	March 9, 1914: At 8h. 55m. a.m.,l.m.t., I set off 33°10$\frac{1}{2}$' N.on the lat.arc; 4°37$\frac{1}{2}$'S. on the decl.arc; and determine a meridian with the solar at the cor.of secs. 8,9,16 and 17, hereinbefore described. Thence I run, N.0°2'W., bet. secs. 8 and 9. Through scattering timber and dense undergrowth. Ascend SW. slope,.470 ft.to
22.50	Ridge, brs. NW· and SE. Descend NE· slope, 295 ft.to
26.80	Spur ridge, brs.NE· Descend N. slope.
30.00	Descend NW· slope.
39.20	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec.cor.,.marked on brass cap, 1913 on S·rim, W C$\frac{1}{4}$ in N.half; S 9 in SE·, and S 8 in SW·quadrant; from which A pine, 8 ins. in diam., brs.S.69$\frac{1}{4}$°W.,31 lks. dist., marked W C $\frac{1}{4}$ S 8 B T. No other trees within limits. Raise a mound of stone, 2 ft.base, 1$\frac{1}{2}$ ft. high, west of cor. Pits impracticable. Instrument point, from which I run stadia measurement over box canyon, course NE. Rod reading (mean of three) 3.000; ratio, 1 ft.= 2 chs. Focal constant, 1.025 ft. Vertical angle, plus 4° 28'. Dist. to rod point is therefore, .9939 x 2 x 3.000 plus .016 = 5.98 chs., which added to 39.20 chs. = 45.18 chs.
40.00	True point for $\frac{1}{4}$ sec.cor.cannot be established.
45.18	Rod point on spur ridge,brs.NE.
46.00	Descend NE· slope.
47.15	Instrument point. Thence by stadia measurement,over V-shaped canyon, course E. Mean of three rod-readings, 1.230 ft. Ratio, 1 ft.= 2 chs. Focal constant,1.025 ft. Level. Dist. to rod point is therefore, 1.230x2 plus .016 = 2.48 chs., which added to 47.15 chs. =
49.63	Rod point on rock spur ridge, brs.E.
49.68	Set flag ahead on line, and leave flag at this point for triangulation. From the flag ahead, measure a base

Chains	
	line S.83° 50' W., 9.97 chs., from the west end of which, flag on line at 49.68 chs.point brs.S.40°41'E. Distance is found from the following:
	$$\frac{\sin. 55° 29' \times 9.97}{\sin 40° 39'} = 12.61 \text{ chs.}$$
	which added to,49.68 chs. = 62.29 chs.
60.50	(Approx.) Sardine Creek, 10 lks.wide, 5 ins. deep,50 ft. below flag point at 49.68 ch. point
62.29	Flag point. From west end of measured base line, Tom Hay's garden brs. N.40°W., about4 chs.dist.
62.30	Trail, brs.NE and SW.
63.00	Gulch, course SE. Ascend in gulch, 15 ft.
67.50	Spur ridge, brs.W. Thence along west slope of gulch,
70.00	Ascend slightSW. slope, to
71.00	Spur ridge, brs. W.; descend.
72.00	Wash, course W.; ascend.
73.00	Thence along broken west slope, to
79.25	Gulch, course SW. Ascend S. slope.
80.00	Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground, for cor.of secs. 4,5,8 and 9, marked on brass cap,

                              1913 on S.rim,
                              T 3 S R 30 E in N.half;
                              S 5 in NW.,
                              S 4 in NE.,
                              S 9 in SE., and
                              S 8 in SW.quadrant; from which,
                         A pine, 11 ins. in diam., brs.N.84¼°E.,123
                              lks.dist., marked T 3 S R 30 E S 4 B T.
                         A pine, 10 ins. in diam., brs.S.21½°E., 79
                              lks.dist., marked T 3 S R 30 E S 9 B T.
                         A cedar, 14 ins. in diam,, brs.S.12½°W., 65
                              lks.dist, marked T 3 S R 30 E S 8 B T.

No other trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high, west of corner. Pits impracticable.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering pine and cedar.
Undergrowth, dense scrub oak, mesquite, catclaw and cacti.
Mountainous land, 80 chs.

                                        March 9,1914.

	March 5, 1914: From the corner of secs. 3,4,9 and 10, hereinbefore described, I run, West, on a random line, bet. secs.4 and 9.
0.29	Set flag for point for Tr. across deep broken rocky canyon, course SE. I regain line at a point on bench on west side of canyon, from which I lay off a base line S.20°42'E., 8.55 chs. to a point whence the flag brs. N.69°22'E.; distance is found from the following:
	$$\frac{\sin. 90° 04' \times 8.55}{\sin, 20° 38'} = 24.26 \text{ chs.}$$
	which added to 0.29 chs.= 24.55 chs.
24.55	Point for triangulation.
40.00	Set temp.¼ sec.cor.
72.08	Point for triangulation, To determine dist.across steep broken, rocky W. slope, I set a flag to the west,on line on top of low spur, and from Pt. for Tr., I measure a base line N.18° 27'W., 5.57 chs. to a point whence the flag brs. S.55° 07' W. Distance is found from the following:
	$$\frac{\sin. 73° 34' \times 5.57}{\sin. 34° 53'} = 9.34 \text{ chs.}$$
	which added to 72.08 chs. = 81.42 chs.; thence run east1.42 chs. to

24. Partial Subdivision of Township 3 South, Range 30 East.

Chains.	
80.00	Set temp.cor.to secs. 4,5,8 and 9.
	March 5, 1914.
	March 9, 1914: I complete this random line, bet . secs. 4 and 9.
80.28	Intersect the N.and S. line 19 lks. north of he cor.of secs.4,5,8 and 9. I now return to the cor.of secs.3, 4, 9 and 10, from which, I run,
	S.89°52'W., on a true line, bet. secs.4 and 9.
	Ascend S. slope, over rocky land, through dense under-growth and scattering timber.
0.29	Spur of ridge, slopes south, 8 ft. above sec.cor.; thence across canyon, course SE. bottom of which is about 800 ft. below sec. cor.
23.35	Top of perpendicular bluff, about 100 ft.high, brs.N. and S. 300 ft. below spur; continue over rolling land; ascend gradually SE. slope.
40.14	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 ¼ sec.cor., marked on brass cap,
	1913 on S.rim,
	¼ S 4 on N., and
	S 9 in S.half;
	raise a mound of stone 2 ft. base, 1½ ft. high, north of corner. No trees within limits. Pits impractica-ble.
	Ascend gradual south slope.
60.50	Gulch, course SE. Ascend NE. slope, to
71.25	Ridge,brs.NE° and SW., 300 ft. above 23.35 ch. point; de-scend steep broken rocky west slope.
80.28	To the cor.of secs. 4,5, 8 and 9.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scatering cedar, pinon and oak.
	Undergrowth, dense scrub oak, cacti, and mesquite.

	N 0° 2' W., on a random line, bet. secs.4 and 5.
40.00	Set temp.¼ sec.cor.
	Note: March 9, 1914: At this temp. cor., I set off 4° 34½'S. on the decl.arc; and at apparent noon, I observe the sun on the meridian; the resulting lat.is 33° 11½' N.
80.15	Intersect N.bdy. of the Tp., 37 lks west of the cor.of secs. 4,5,32 a& 33, established by me, as described in Book "A."
	Thence I run,
	S.0° 14' W., on a true line, bet.secs4 and 5.
	Over rocky land,through scattering timber and dense undergrowth. Descend S. slope, 50 ft.to
2.15	Canyon, course E., with small stream of clear water, 1 lk. wide, and 2 ins. deep, flows E. Ascend N. slope, 400 ft to
19.45	Ridge, brs.NW° and SE.; descend SW° slope.
33.35	Spur ridge, slopes SW.; descend S. slope.
40.15	Point for ¼ sec.cor. falls in draw, course S.20°W.; unsafe point for cor.; descend broken W. slope.
40.90	Set an iron post, 3 ft.long, 1 in. in dAm., 26 ins. in the ground, for witness cor. to ¼ sec.cor., marked on brass cap,
	1913 on S.rim,
	W C¼ in N.half;
	S 4 in SE., and
	S 5 in SW.quadrant; from which a
	A pinon, 8 ins. in diam., brs.S.50°E.,174 lks.dist.,marked ¼ S 4 W C B T.
	A pinon, 10 ins. in diam., brs.S.40°W.,79 lks.dist., marked ¼ S 5 W C.B T.
76.45	Trail, brs.NE° and SW.
77.00	Spur ridge, slopes SW.; descend S. slope.

Chains.	
80.15	To the cor.of secs. 4,5, 8 and 9, 1050 ft. below 19.45 ch.point.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar, pinon and oak.
	Undergrowth, dense scrub oak, mesquite and cacti.
	March 9, 1914.

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	February 6, 1914: At 7h. 30m. a.m., l.m.t., I set off 33°07'N. on the lat.arc; 15° 41'S. on the decl.arc; and determine a meridian with the solar at the original cor. of secs.5,6,31 and 32, on the south bdy,of the Tp., hereinbefore described,
	Thence I run,
	N.0°3'W., bet. secs. 31 and 32.
	Over rocky land, through dense undergrowth and scattering timber. Descend N. slope, 150 ft.
4.60	Old wagon road, brs.NW. and SE.
5.00	Gulch, course E. Ascend SE. slope, 190 ft.
5.80	Same road, brs.NE. and SW.
13.00	Spur ridge, slopes east; descend NE. slope, 175 ft.
13.25	Trail,brs.NW. and SE.
19.80	Same old road, brs.NW. and SE.
20.00	Gulch, course SE.; ascend south slope, 250 ft.to
33.15	Ridge, brs.NW. and SE.; descend NE slope, 175 f.
40.00	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,
	1913 on S.rim,
	¼ S 31 in W., and
	S 32 in E.half;
	raise a mound of stone 2 ft.base, 1½ ft. high, west of cor. No trees within limits. Pits impracticable.
43.75	Gulch, course SE. Ascend S. slope, 155 ft.to
48.80	Ridge, brs.NW. and SE.; descend NE. slope.
57.50	Spur ridge, slopes NE.; descend NW. slope, 135 ft.to
62.00	Canyon, course E.; ascend S. slope.
67.75	Ascend along westslope.
80.00	Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. the ground, for cor.of secs. 29,30,31 and 32,marked on brass cap,
	1913 on S.rim,
	T 3 S S 30 in NW.,
	R 30 E S 29 in NE.,
	S 32 in SE., and
	S 31 in SW.quadrant;
	raise a mound of stone 2 ft. base, 1½ ft. high, west of corner. No trees within limits. Pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar.
	Undergrowth, dense mesquite, catclaw, scrub oak and cacti.
	Feb.6, 1914.

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	Feb.9,1914:
	S.89°50'E., on a random line, bet. secs29 and 32.
40.00	Set temp.¼ sec.cor.
79.97	Intersect N.and S. line 26 lks.S. of the cor.of secs.28,29, 32 and 33.Thence I run,S.89°59'W.on true line,bet.secs.29&32.
	Descend west slope, over rocky land, through dense undergrowth and scattering timber.
10.50	Gulch, course NW.; ascend.
17.00	Descend NW. slope.
26.50	Spur ridge, slopes NW.; descend SW. slope.
27.00	Top of cliffs, 165 ft.high, brs.NW.and SE.
28.80	Foot of cliffs; enter river bottom,brs.N.and S. 700 ft.

148

26. Partial Subdivision of Township 3 South, Range 30 East.

Chains.	
	ft. below sec.cor.
32.40	Wagon road, brs.NE° and SW.
32.50	San Francisco River, 240 lks.wide, 10 ins. deep, muddy water, gravel bottom, flows SW.
35.00	Ascend SE· slope.
39.985	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 ¼ sec.cor., marked on brass cap,
	1913 on S.rim,
	¼ S 29 on N., and
	S 32 in S.half;
	raise a mound of stone 2 ft.base, 1½ ft. high, north of cor. No trees within limits. Pits impracticable.
41.85	Spur ridge, slopes south; continue along south slope.
46.60	Gulch, course SE. Ascend E· slope.
51.45	Foot of cliff, 40 ft.high, brs. NW· and SE.
51.50	Top of cliff.
52.00	Spur ridge, slopes SE., 500 ft. above river; descend SW. slope, 100 ft.to
60.00	Gulch, course S. Ascend SE. slope, 150 ft.
77.75	Spur ridge, slopes S.; descend west slope, 40 ft.to
79.97	To the cor.of secs.29,30,31 and 32.
	Land, mountainous.
	Soil, rocky, 4th rate, with the exception of a narrow strip along the river, which is sandy loam, 1st rate
	Timber, scattering cedar, with a fringe of cottonwood and sycamore along river.
	Undergrowth, dense mesquite, catclaw and cacti.
	Feb. 9, 1914.

	February 6, 1914: At the cor.of secs.29,30,31 and 32, I set off 15° 40' S.on the decl.arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 33°08'N.
	N.89°49'W., on a random line, bet. secs.30 and 31.
40.00	Set temp.¼ sec.cor.
79.61	Intersect the west bdy.of the Tp. of _____ and __. (5th.Guide Meridian East) 19 lks.N.of the cor.of secs.25,30,31 and 36, reestablished by me, as described in Book "B."
	Thence I run,
	S.89°57'E., on a true line, bet. secs.30 and 31.
	Over rocky land, through dense undergrowth and scattering timber; descend E· slope, 145 ft.to
5.00	Canyon, course SE. Ascend broken SW. slope, 280 ft.to
18.75	Broken rocky ridge, brs.NW° and SE.; descend NE· slope, 235 ft.to
28.00	Canyon, course SE.; ascend SW· slope, 270 ft.
39.61	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 ¼ sec.cor., marked on brass cap,
	1913 on S·rim,
	¼ S 30 in N., and
	S 31 in S.half;
	raise a mound of stone 2 ft.base, 1½ ft. high, N.of corner. No trees within limits. Pits impracticable.
40.00	Rocky ridge, brs.NW· and SE.; descend E· slope.
75.60	Gulch, course SE., 930 ft.below ridge; ascend W slope,80 ft.to
79.61	The cor.of secs.29,30,31 and 32.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar and pinon.
	Undergrowth, dense scrub oak, mesquite, catclaw and cacti.

Chains.	
	N.0°3'W., bet. secs.29 and 30.
	Over rocky land, through dense undergrowth and scattering timber. Ascend SW· slope, 185 ft·to
11.65	Ridge, brs. NW. and SE.; descend NE. slope, 90 ft.to
26.00	Gulch, course SE. Ascend S. slope, 75 ft.to
31.00	Spur ridge, slopes east; descend NE· slope, 100 ft.to
39.30	Head of draw, course E.; ascend SE· slope, 25 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground, on bedrock, supported by a mound of stone for ¼ sec.cor., marked on brass cap,

<div align="center">

1913 in S rim,
¼ S 30 in W., and
S 29 in E·half; from which,

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A cedar, 6 ins. in diam., brs.S.23¾°E.,81 lks. dist., marked ¼ S 29 B. T.

A cedar, 8 ins. in diam., brs.S.1¾°W., 140 lks.dist., marked ¼ S30 B T.

41.50	Spur ridge, slopes NE.; descend N.slope, 255 ft.
48.55	Trail brs.E·and W.
49.85	Sycamore Creek, 4 lks.wide, 4 ins. deep, clear water, rocky bottom, flows E.; ascend SE· slope.
77.00	Foot of broken cliffs, 200 ft.high, brs.NE· and SW.
80.00	Set an iron post, 3 ft.long, 2 ins. in diam., 20 ins. in crevice of cliff, supported by a mound of stone, for the cor.of secs.19,20,29 and 30, marked on brass cap,

<div align="center">

1913 on S.rim,
T 3 S S 19 in NW·,
R 30 E S 20 in NE·,
S 29 in SE., and
S 30 in SW.quadrant;

</div>

raise a mound of stone 2 ft.base, 1½ ft. high, 8 ft. NW· of cor. No trees within limits; pits impracticable.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering cedar and pinon, with a fringe of syca- more along the creek.

<div align="right">

Feb. 6, 1914.

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	Feb.10,1914: From the cor.of secs.20,21,28 and 29,here- inbefore described, I run,
	West, on a random line, bet. secs.20 and 29.
5.34	Set flag; point for Tr. on top of cliff, 200 ft. high,brs. N.20°E. and S·20°W. Impossible to continue chaining.
	I regain line at a point on a bluff, brs.NE· and S., about 40 ft.high on west side of river, from which, point I lay off a base line N.47° 53' E., 11.73 chs. to a point whence the flag brs. S.58° 02' E·; distance is found from the following:

$$\frac{\sin. 105° 55' \times 11.73}{\sin. 31° 58'} = 21.31 \text{ chs.}$$

which added to 5.34 chs. = 26.65 chs.

<div align="right">

Feb.10, 1914.

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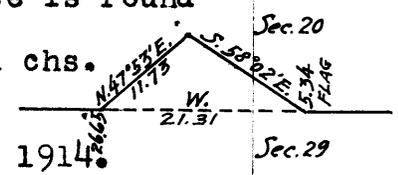| 26.65	Note: At this point, Feb.12, 1914, at 7h. 30m. a.m.,l. m. t., I set off 33° 08½' N.on the lat.arc; 13°47½'S. on the decl.arc; and determine a meridian with the solar.
40.00	Set temp.¼ sec.cor.
79.84	Intersect the N. and S. line, 9 lks.south of the cor.of secs.19,20,29 and 30, I now return to the cor.of secs.20,21, 28 and 29, from which I run,
	N.89°56'W., on a true line, bet. secs.20 and 29.
	Descend NW· slope, over rocky land, through dense under- growth and scattering timber.
5.34	Top of bluff,brs.N.20°E. and S·20°W. on east side of San Francisco River; descend abruptly 200 ft.to
6.00	(Approx.) Center of San Francisco River, 260 ft.below sec.cor. Gravel bottom, flowing muddy water,varying in depth from a few inches to several feet. River comes from the NE. to this point;thence west along line.

28.   Partial Subdivision of Township 3 South, Range 30 East.

Chains.	
20.35	(Approx.) wagon road, brs.N.and S.
26.50	(Approx.) Leave river, course S. Ascend abruptly 40 ft to
26.65	Top of bluff., brs.NE' and S. on west side of river. Ascend east slope.
35.50	Spur ridge, slopes SE., 300 ft. above river; continue along rolling, broken south slope.
39.92	Set an iron post 3 ft.long., 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

                                  1913 on S.rim,
                                  ¼ S 20 in N., and
                                  S 29 in S.half;
               raise a mound of stone 2 ft.base, 1½ ft. high, N.of cor.
        No trees within limits. Pits impracticable.

49.00	Draw, course SE.; ascend SE. slope, 290 ft.
50.00	Trail, brs.NE. and SW.
63.50	Top of ascent; continue along rolling south slope.
69.00	Draw, course SE. Ascend SE. slope, 300 ft.to
79.84	The cor.of secs.19,20,29 and 30.

        Land, mountainous.
        Soil, rocky, 4th rate, with the exception of a narrow strip
            along the river, which is sandy loam, 1st rate.
        Timber, scattering cedar, with a fringe of cottonwood and
            sycamore along the river.
        Undergrowth, dense catclaw, mesquite, scrub oak and cacti.

                              Feb.12, 1914.

        Feb. 7, 1914: At 8h. 05m. a.m.,l.m.t., I set off 33°
            08½'N. on the lat.arc; 15° 24'S. on the decl.arc; and
            determine a meridian with the solar at the cor.of secs.
            19,20,29 and 30; thence I run,
        N.89°57'W., on a random line, bet. secs.19 and 30.

| 40.00 | Set temp.¼ sec.cor. |
| 79.64 | Intersect the west bdy.of the Tp. (5th.Guide Meridian East) 5 lks.south of the corner of secs. 19,24, 25 and 30, reestablished by me, as described in Book"B." |

        Thence I run,
        S.89°55'E., on a true line, bet. secs.19 and 30.
        Over rocky land, through dense undergrowth and scattering
            timber. Ascend SW. slope, 75 ft.to

3.15	Spur ridge, slopes SE., 75 ft.above sec.cor.; descend NE. slope, 440 ft.to
18.00	Gulch, course SE.; ascend west slope, 40 ft.to
19.00	Rocky spur, slopes SE.; descend NE. slope, 40 ft.to
20.45	Gulch, course SE. Ascend SW. slope, 155 ft.to
28.90	Spur ridge, slopes SE.; descend SE. slope, 335 ft.to
37.65	Gulch, course S.; ascend SW. slope, 90 ft.
39.64	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

                                  1913 on S rim,
                                  ¼ S 19 in N., and
                                  S 30 in S.half; from which,
               An oak, 8 ins. in diam., brs.N.1°W.,127 lks.
                   dist., marked ¼ S 19 B T.
               An oak,10 ins. in diam., brs.S.14½°W.,58 lks.
                   dist., marked ¼ S 30 BT.
        John Fisher's house, brs.S.11°W., about12.00 chs. dist.

45.15	Spur ridge, slopes S.; descend SE. slope, 150 ft.to
55.65	Gulch, course SE. Ascend SW. slope, 240 ft.to
65.55	Spur ridge. slopes S.; continue along rolling,broken S.slope.
69.65	Spur ridge, slopes S.; descend SE. slope, 255 ft.to
79.64	The cor.of secs.19,20,29 and 30.

        Land, mountainous.
        Soil, rocky, 4th rate,
        Timber, scattering with patches of heavy pinon, oak and
            cedar.
                              Feb.7, 1914.

Partial Subdivision of Township 3 South, Range 30 East. 29.

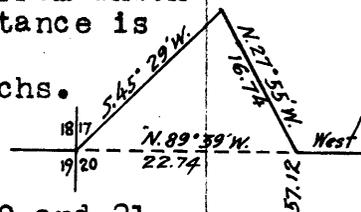| Chains.	
	Feb.12,1914.
	N 0°3'W., bet. secs.19 and 20.
	Through dense undergrowth and scattering timber. Ascend broken, rocky SE. slope, 190 ft.to
7.00	Spur ridge, slopes E.; descend NE. slope.
10.00	Rocky ridge, brs.NE and SW.
	Note: February 12, 1914: At this point, I set off 13° 45½'S. on the decl.arc; and at apparent noon, I observe the sun on the meridian; the resulting lat.is 33° 09' N.
	Descend N. slope, 320 ft.to
17.00	Bottom of canyon, course E.; ascend SE. slope, 500 ft.to
32.30	Ridge, brs.E.and W.; descend NE. slope, 70 ft.to
35.75	Bottom of canyon, course E.; ascend SE. slope, 150 ft.
40.00	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 ¼ sec.cor., marked on brass cap,
	1913 on S.rim,
	¼ S 19 on W., and
	S 20 in E.half; from which,
	A pinon 8 ins. in diam., brs.N.2°E., 44 lks. dist., marked ¼ S 20 BT.
	A pinon, 10 ins. in diam., brs.S.89°W., 19 lks.dist., marked ¼ S 19 B T.
42.00	Spur ridge, slopes E. Descend NE. slope, 400 ft.to
58.00	Bottom of canyon, course E. Ascend SW. slope, 640 ft.to
75.90	Rocky ridge, brs.NW and SE.; descend NE. slope.
80.00	Set an iron post, 3 ft.long, 2 ins. in diam., 10 ins. in the ground, on bedrock, supported by a mound of stone for the cor.of secs.17,18,19 and 20, marked on brass cap,
	1913 on S.rim,
	T 3 S S 18 in NW.,
	R 30 E S 17 in NE.,
	S 20 in SE., and
	S 19 in SW. quadrant; from which,
	A pinon, 6 ins. in diam., brs.S.58°W.,30 lks. dist., marked T 3 S R 30 E S 19 B T.
	A pinon, 10 ins. in diam., brs.N.73°W., 42 lks. dist., marked T 3 S R 30 E S 18 B T.
	Raise a mound of stone 2 ft. base, 1½ ft. high,west of cor. No other trees within limits. Pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering with patches of heavy pinon, cedar and oak.
	Undergrowth, dense scrub oak, catclaw, mesquite, manzanita and cacti.
	--
	The true point for cor.of secs.16, 17,20 and 21, being inaccessible, from a point 35 lks.N. of cor.point, I run,
	West, on a a random line, bet. secs.17 and 20.
	By stadia measurement across deep box canyon , course S., rod reading 6.500 ft.;ratio 1 ft.= 2 chs. Focal constant 1.025 ft. vertical angle plus 13° 35' therefore, the distance is .9448 x 2 x 6.500 plus .016 = 12.30 chs.
12.30	Rod point; thence run south, 35 lks., and continue random line west
19.71	Thence by stadia measurement across Silver Creek Canyon, course SE., rod reading 6.157 ft. Ratio 1 ft.= 2 chs. Focal constant, 1.025 ft.; angle of depression _ 3° Therefore, the distance is .9973 x 2 x 6.157 plus .016 = 12.30 chs., which added to 19.71 chs. = 32.01 chs.
32.01	Rod point. Thence by stadia measurement across steep

30. Partial Subdivision of Township 3 South, Range 30 East.

Chains.	
	rocky N. slope, rod reading 2.793 ft. Ratio 1 ft. = 2 chs. Focal constant, 1.025 ft. Angle of depression = 2° 20' ; therefore, the distance is .9983 x 2 x 2.793 plus .016 = 5.59 chs., which added to 32.01 chs. chs. = 37.60 chs.
37.60	Rod point on spur ridge.
40.00	Set temp.¼ sec.cor.
57.12	Point for triangulation, flag on the corner of secs.17,18,19 and 20, brs.N. 89° 39' W.; lay off a base line with stadia, N.27° 55'W., 16.74 chs. to a point, from which the flag on sec.cor. bears S.45° 29' W.; distance is found from the following: $$\frac{sin. 73° 24' \times 16.74}{sin. 44° 52'} = 22.74 \text{ chs.}$$ which added to 57.12 chs. = 79.86 chs.
79.86	Intersect the cor.of secs. 17, 18,19 and 20.
	The true point for the corner of secs.16, 17, 20 and 21, being inaccessible,from a point 35 lks.north of cor. point, I run, N.89°54' W., on an offset line, bet. secs.17 and 20. Over rocky land, through dense undergrowth and scattering timber, across box canyon, course S. about 400 ft.deep. At a point 12.30 chs. N.89° 54'W., I run south 35 lks. to sec.line, at
12.30	A point on spur ridge, slopes SE., 180 ft. above true point for sec.cor. Thence on true secline, N.89°54' W., continuing measurement from cor.point. Descend SW. slope, 50 ft.to
16.00	Head of gulch, course SE.; ascend SE.slope, 30 ft.to
19.71	Spur ridge, slopes S. Descend abruptly into rocky box canyon, about 400 ft. deep.
25.75	(Approx.) bottom of canyon, Silver Creek, a small stream of clear water, flowing south. Ascend abruptly 470 ft.to
32.01	Rocky spur ridge, slopes NE.; thence over broken cliffy north slope. Ascend 30 ft.to
37.60	A point on edge of canyon; ascend NE· slope, 170 ft.
39.93	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 ¼ sec.cor., marked on brass cap, 1913 on S.rim, ¼ S 17 on N., and S 20 on S.half; from which, A pinon, 10 ins. in diam., brs.S.52°W., 150 lks.dist., marked ¼ S 20 BT. A cedar, 6 ins. in diam., brs.N.43°W.,26 lks. dist., marked ¼ S 17 B T.
52.00	Spur ridge, slopes north; descend NW· slope, 100 ft.to
55.75	Gulch, course N.; ascend NE slope, 25 ft.to
57.12	Spur ridge, slopes N.; descend steep NW· slope.
65.00	(Approx.) gulch, course N.; ascend up a steep rocky,cliffy NE· slope to
79.86	The cor.of secs.17,18,19 and 20, 700 ft. above 57.12 chain point. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering pinon and cedar. Undergrowth, dense scrub cedar, catclaw, manzanita, cacti and mesquite.
	--
	N.89°55'W., on a random line, bet. secs.18 and 19,
40.00	Set temp.¼ sec.cor.
79.64	Intersect the west bdy. of the Tp. (5th.Guide Meridian East) 30 lks.north of the corner of secs. 13,18,19 and 24, reestablished by me, as described in Book "B." Thence I run, N.89°52'E., on a true line, bet. secs.18 and 19.

153

BOOK 2774

31.   Partial Subdivision of Township 3 South,Range 30 East.   31.
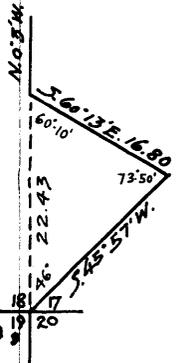
Chains.

Chains	
	Over rocky land, through scattering timber and dense undergrowth. Descend SE. slope, 160 ft.to
7.50	Gulch, course NE.; ascend rolling N.slope, 250 ft.to
33.30	Top of ascent; descend N. slope.
37.25	Ridge.brs.N.60°E. and S.60°W.; descend SE. slope.
39.64	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

<div style="text-align:center">

1913 on S·rim,

¼ S 18 on N., and

S 19 on S. half; from which,

A juniper, 12 ins. in diam., brs.S.87°E., 179 lks.dist, marked ¼ S 19 B T.

A pinon, 8 ins. in diam., brs.N.19¼°W.,44 lks. dist., marked ¼ S 18 B T.

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Chains	
52.00	Foot of descent, 200 ft. below 33.30 chain point; ascend SW. slope, 170 ft.to
58.00	Rocky ridge, brs.east, and N.60°W? Continue along top of broken rocky ridge.
75.24	Offset south 284 lks. to avoid cliffs; thence N.89°52' E., 440 lks.; thence north 284 lks. to
79.64	The cor.of secs.17,18,19 and 20, 90 ft. below 75.24 chain point.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering pinon and cedar.

Undergrowth, dense scrub oak, manzanita, mesquite, cat-claw and cacti.

<div style="text-align:right">

Feb. 12, 1914.

</div>

Feb. 16, 1914:

N.0°3'W., bet. secs.17 and 18. It being impossible to accurately chain the beginning of this line, I set a flag at corner of secs.17,18,19 and 20, and proceed to a point on the sec.line, bet secs. 17 and 18,about 3.00 chs. north of and 200 ft. above Silver Creek, which is a stream of clear water, about6 lks.wide,and 6 ins. deep, flowing east at this point. At 9h.15m., a.m.,l.m.t., I set off 33°10'N. on the lat.arc; 12°26' S. on the decl, arc; and determine a meridian with the solar. Thence I lay off a base line S.60°13'E., 16.80 chs. to a point, from which the flag on the sec.cor. bears S.45°57'W.; distance is found from the following:

$$\frac{\sin. 73°50' \times 16.80}{\sin. 46°00'} = 22.43 \text{ chs.}$$

Chains	
22.43	Point for Triangulation, 660 ft. below sec.cor.; ascend SW. slope.
31.60	Foot of cliff, 80 ft. high, brs.E·and W.
32.00	Top of cliffs.
40.00	Set an iron post 3 ft.long, 1 in. in diam., 10 ins. in the ground, on bedrock, supported by a mound of stone, for ¼ sec.cor., marked on brass cap,

<div style="text-align:center">

1913 on S·rim,

¼ S 18 on W., and

S 17 onE·half;

</div>

raise a mound of stone 2 ft.base, 1½ ft. high, west of cor. No trees within limits. Pits impracticable.

Chains	
41.00	Head of draw, course SW.; ascend SE· slope.
57.00	Ridge, brs.E·and W., 405 ft. above 22.43 chain point; descend N. slope, 230 ft.to
68.80	Gulch, course E.; ascend SE. slope, 80 ft.
74.10	Trails br. E and W.
75.00	Spur ridge, slopes E.; descend NE., 135 ft.to
79.00	Draw, course E.; ascend SE· slope.
80.00	Set an iron post, 3 ft.long, 2 ins. in diam., 10 ins. in the ground, on bedrock, supported by a mound of stone, for the cor.of secs.7,8,17 and 18, marked on brass cap,

<div style="text-align:center">

1913 on S·rim,

</div>

32. Partial Subdivision of Township 3 South, Range 30 E.

Chains.	
	T 3 S S 7 in NW.,
	R 30 E S 8 in NE.,
	S 17 in SE., and
	S 18 in SW. quadrant;
	raise a mound of stone 2 ft. base, 1½ ft. high, west of corner. No trees within limits. Pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering pinon and cedar.
	Undergrowth, scattering scrub oak, mesquite, catclaw and cacti.
	--
	S.89°55'E., on a random line, bet. secs.8 and 17.
40.00	Set temp.¼ sec.cor.
80.13	Intersect N.and S. line, 21 lks.N.of the cor. of secs. 8,9, 16 and 17.
	Thence I run,
	N.89°46'W., on a true line, bet. secs.8 and 17.
	Over rocky land, through scattering timber and undergrowth.
	Descend SW. slope, 80 ft.
3.80	Trail, brs.N.and S.
10.25	Gulch, course SE.; ascend east slope, 180 ft.to
18.00	Ridge, brs.N.and S.; descend west slope, 205 ft.to
25.85	Gulch, course S.; ascend E. slope, 500 ft.
27.90	Bartlett's house, brs.north 50 lks.dist.
28.65	Corral, brs.S. 20 lks.dist.
34.85	Trail, brs.NE and SW.; ascend SE. slope.
40.065	Set an iron post 3 ft.long, 1 in. in diam., 16 ins. in the ground, on bedrock, supported by a mound of stonw for ¼ sec.cor., marked on brass cap,
	1913. on S.rim,
	¼ S 8 on N., and
	S 17 on S.half;
	raise a mound of stone 2 ft.base, 1½ ft. high, north of corner, No trees within limits. Pits impracticable.
43.00	Spur ridge, slopes south; descend SW. slope, 85 ft.to
47.00	Gulch, course S.; ascend E slope, 25 ft.to
49.00	Spur ridge, slopes south; descend SW. slope, 20 ft.to
51.00	Enter gulch, course SE.; ascend up gulch.
57.00	Leave gulch, from SW.; ascend SE. slope, 425 ft.to cor.
69.05	Trail, brs.NE and SW.
80.13	The cor.of secs.7,8,17 and 18.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar and pinon.
	Undergrowth, dense scrub oak, mesquite, catclaw and cacti.
	--
	S.89° 52'W., on a random line, bet. secs.7 and 18.
40.00	Set temp.¼ sec.cor.
79.70	Intersect the west bdy.of the Tp. (5th.Guide Meridian East) 9 lks.south of the cor. of secs.7,12,13 and 18, reestablished by me, as described in Book "B."
	Thence I run,
	N.89°56'E., on a true line, bet. secs.7 and 18.
	Over rolling bench, drains S.; rocky land, through dense undergrowth and scattering timber.
22.50	Descend east slope.
29.25	Gulch, course SE., 190 ft. below bench; ascend SW. slope, 110 ft.to
35.00	Spur ridge, slopes south; descend SE. slope, 20 ft.to
38.50	Gulch, course SW.; ascend west slope, 200 ft.
39.70	Set an iron post 3 ft.long, 1 in. in diam., 6 ins. in the ground, on bedrock, supported by a mound of stone,for ¼ sec.cor., marked on brass cap,
	1913 on S.rim,

Chains.	
	¼ S 7 on N., and
	S 18 on S.half;
	raise a mound of stone 2 ft.base, 1½ ft. high, N.of
	cor. No trees within limits. Pits impracticable.
51.00	Ridge, brs.N.and S.; descend east slope.
61.70	Rocky ledge, 10 ft.high, brs.N.and S.; descend SE slope.
79.70	The cor.of secs.7,8,17 and 18, 830 ft.below ridge.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering pinon and cedar.
	Undergrowth, dense scrub oak, mesquite, catclaw and cacti.
	Feb. 16, 1914.

- -

	March 10, 1914: At 8h.10m. a.m.,l.m.t., I set off 33° 10½'
	N. on the lat.arc; 4°15'S. on the decl.arc; and de-
	termine a meridian with the solar at the cor.of secs.
	7,8,17 and 18.
	Thence I run,
	N.0°3'W., bet. secs.7 and 8.
	Over rocky land, through dense undergrowth and scattering
	timber.
	Ascend SE slope, 70 ft.to
3.00	Ridge, brs.E·and W.; descend NE slope, 20 ft.to
7.50	Draw, course E.; ascend SE slope, 60 ft.to
11.00	Spur ridge, slopes east; descend N. slope, 95 ft.to
16.00	Gulch, course E.; ascend SE slope, 115 ft. to
20.00	Ridge, brs.E·and W.; descend NE slope, 180 ft.to
38.50	Draw, course SE.; ascend SE slope, 190 ft.
40.00	Set an iron post, 3 ft.long, 1 in. in diam., 6 ins. in
	the ground, on bedrock, supported by a mound of stone
	for ¼ sec.cor., marked on brass cap,
	1913 on S·rim,
	¼ S 7 on W., and
	S 8 on E.half; fromwhich,
	A cedar, 10 ins. in diam., brs.S·31¼°E.,83
	lks.dist., marked ¼ S 8 B T.
	A cottonwood, 12 ins. in diam., brs.S·88°W.,
	302 lks.dist., marked ¼ S 7 B T.
52.00	Spur ridge, slopes east; descend NE slope, 60 ft.to
57.00	Draw, course E.; ascend S. slope, 95 ft.to
63.00	Ridge, brs.NW· and SE.; descend NE slope, 160 ft.to
69.50	Canyon, course SE.; ascend SW· slope, 165 ft.to
77.50	Ridge,brs. NW. and SE·; descend NE slope.
80.00	Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in
	the ground, for cor.of secs.5,6,7 and 8, marked on
	brass cap,
	1913 on S·rim,
	T 3 S S 6 in NW.,
	R.30 E S 5 in NE·,
	S 8 in SE·, and
	S 7 in SW. quadrants; from which,
	A juniper, 6 ins. in diam., brs.S.78°E., 56 lks.
	dist., marked T 3 S R 30 E S 7 B T.
	No other trees within limits; raise a mound of stone 2 ft.
	base, 1½ ft. high, west of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar, juniper and pinon.
	Undergrowth, dense scrub oak, mesquite and cacti.
	March 10,1914.

- -

	March 11,1014: At 8h. a.m.,l.m.t.,I set off 33°11'N.on
	the lat.arc; 3°51'S. on the decl.arc; and determine
	a meridian with the solar at the cor.of secs.5,6,7
	and 8.; thence I run,

34.   Partial Subdivision of Township 3 South, Range 30 East.

Chains.	
	S. 89° 46'E., on a random line, bet. secs.5 and 8.
40.00	Set temp.¼ sec.cor.
79.89	Intersect N.and S. line at the cor.of secs. 4,5,8 and 9.
	Thence I run,
	N.89°46'W., on a true line, bet. secs.5 and 8.
	Over rocky land, through scattering timber and dense under-growth. Descend SW. slope, 40 ft.to
4.00	Gulch, course S.; ascend E. slope.
5.00	Trail, brs.NE° and SW.
10.00	Ascend SE° slope.
21.80	Offset south 150 lks. to avoid cliffs, 100 ft.high, br.° NE° and SW., 460 ft.above gulch; thence N.89°46'W.
31.50	Offset north 150 lks. to the true line, at foot of cliffs, bear NW. and SE.; descend SW° slope, 285 ft.
39.945	Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,
	1913 on S.rim,
	¼ S 5 in N., and
	S 8 in S.half; from which,
	An oak, 8 ins. in diam., brs. N.58¼°E.,26 lks. dist., marked ¼ S 5 B T.
	An oak, 6 ins. in diam., brs.S.44¼°E.,56 lks. dist., marked ¼ S 8 B T.
40.70	Sardine Creek, clear water, 10 lks.wide, 4 ins.deep,flows SE. Ascend NE° slope, 845 ft.
40.80	Trail,brs.NW° and SE.
73.00	Spur slopes NE.; descend NW° slope.
79.00	Head of draw, course NE.; ascend NE° slope, 5 ft.to
79.89	The cor.of secs.5,6, 7 and 8.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering cedar, oak and pinon, with a little cottonwood and sycamore along the creeks.
	Undergrowth, dense scrub oak, mesquite, cacti,catclaw.

	S.89° 56' W., on a random line, bet. secs.6 and 7.
24.00	Note: At this point, March 11, 1914, I set off 3°48'S.on the decl.arc; and at apparent noon, I observe the sun on the meridian; the resulting lat.is 33° 11'N.
40.00	Set temp.¼ sec.cor.
43.76	A pt.from which I stadia over broken, rocky, cliffy north slope, rod reading 6.108 ft. Ratio 1 ft.= 2 chs. Fo-cal constant, 1.025 ft. Level. Therefore, the dist. is 6.108 x 2 plus .016 = 12.23 chs., which added to 43.76 chs. = 55.99 chs.
55.99	A pt.from which I stadia over broken rocky N.slope. Rod reading, 3.985 ft. Ratio 1 ft.= 2 chs. Focal constant 1.025 ft. ; angle of depression - 13° 2'; therefore the distance is .9491 x 2 x 3.985 plus .016 = 7.58 chs.which added to 55.99 chs.= 63.57 chs.
63.57	Rod point.
79.65	Intersect the west bdy.of the Tp. (5th.Guide Meridian East), 14 lks.north of the cor. of secs.1,6,7 and 12, reestablished by me as described in Book "B."
	Thence I run,
	N.89°50'E., on a true line, bet. secs.6 and 7.
	Over rocky land, through scattering timber and dense undergrowth. Descend east slope, 60 ft.to
2.15	Draw, course NE.; ascend SW° slope, 15 ft.to
2.75	Spur slopes north; descend SE° slope, 55 ft.to
4.65	Gulch, course N. Ascend NW° slope, 405 ft.to
16.08	Rocky spur ridge, slopes north; ascend over broken rocky north slope, 115 ft.to
23.66	Rocky spur, slopes NE.; thence across steep rocky, cliffy north slope.
35.89	Ascend NW° slope, 20 ft.to
36.15	Spur, slopes N.; descend NE° slope, 140 ft.
39.65	Set an iron post 3 ft.long, 1 in. in diam., 5 ins. in the ground, on bed rock, supported by a mound of stone for ¼ sec.cor., marked on brass cap,

Chains.	
	1913 on S·rim,
	¼ S 6 on N., and
	S 7 on S.half; from which,
	A pinon, 6 ins. in diam., brs.N.35¼°E., 158 lks.dist., marked ¼ S 6 B T.
	A pinon, 6 ins. in diam., brs.S.72°E.,40 lks. dist., marked ¼ S 7 B T.
39.85	Head of draw, course N.; continue along N. slope.
42.65	Head of draw, course NW.; ascend NW· slope.
49.65	Rim rock, 15 ft.high, brs.N.and S.; ascend SW· slope.
55.65	Top of ascent, 320 ft.above draw; thence along south slope.
60.00	Ridge, brs. E. and N.80°W.; thence along ridge.
62.90	Top of cliffs, 40 ft.high, brs.NE and SW.
63.15	Foot of cliffs; descend SE· slope.
75.75	Ridge, brs. NW and SE.; descend NE· slope.
79.65	The cor.of secs.5,6,7 and 8, 380 ft. below top of cliffs.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, scattering pinon, cedar and juniper.
	Undergrowth, dense scrub oak, mesquite and cacti.
	March 11,1914.
	--
	March 10, 1914.
	N.0°3'W., on a random line, bet. secs.5 and 6.
40.00	Set temp.¼ sec.cor.
	Note: At this point, March 10, 1914, I set off 4°11½' S.on the decl.arc; and at apparent noon, I observe the sun on the meridian; the resulting lat.is 33° 11½'N.
80.03	Intersect the N. bdy.of the Tp., 21 lks.west of the cor. of secs.5,6,31 and 32, established by me, as described in Book "A."
	Thence I run,
	S.0°6'W., on a true line, bet. secs.5 and 6.
	Over rocky land, through scattering timber and dense undergrowth. Descend SE· slope, 245 ft.to
9.00	Gulch, course SW. Ascend NW· slope, 110 ft.to

Partial Subdivision of Tp. 3 S. R. 30 E.

Chains	
23.20	Spur, slopes SW. descend. SE. slope, 440 ft. to .
38.00	Gulch, course SW., ascend SW. slope, 25 ft. to .
39.00	Spur, slopes W., descend SW. slope, .
40.03	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap 1913 on S. rim

$\frac{1}{4}$ S6 on W. half and

S5 on E. half; from which

A cedar, 8 ins. in diam., bears N. $58\frac{3}{4}°$ E., 71 lks. dist., marked $\frac{1}{4}$ S 5 B T.

A pinon, 6 ins. in diam., bears S. $84\frac{1}{2}°$ W., 61 lks. dist., marked $\frac{1}{4}$ S 6 B T.

45.73	Top of cliff, 50 ft. high, bears NW. and SE.,
46.25	Foot of cliff.
51.63	Trail, bears E. and W.
51.70	Sardine creek, clear water, 6 lks. wide, 4 ins. deep, 225 ft. below spur, ascend NE. slope.
64.50	Spur, slopes NE, descend.
68.50	Draw, course NE, ascend.
72.00	Spur, slopes NE, descend.
80.03	The cor. of secs. 5, 6, 7 and 8, 725 ft. above creek.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, scattering cedar and pinon.

Undergrowth, dense scrub oak, mesquite, cacti and
catclaw.   March 10. 1914.

General Description.

This township is nearly all mountainous, and the
soil is rocky 4th rate, with the exception of a narrow
strip along the San Francisco river which is sandy
loom 1st rate, is covered with a scattering growth
of rich and nutritious grass, good grazing.

Cottonwood, sycamore and ash are found along the
San Francisco river and along the creeks, the township
is covered with a scattering growth of pinon, juniper
and cedar timber with small patches of heavy timber.

There are several settlers in this township, there
is no agricultural land in the unsurveyed sections.

William B. Kimmel.

U.S.Surveyor.

Boundaries of T. 3 S., R. 30 E.
·(Surveyed portion)
Latitudes, departures and closing errors.

Line designated	True course	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
Subdivisional Bdy.	West	320.00				320.00
	S.0° 2'E.	240.00		240.00	.14	
South bdy.of Tp.	West	40.36				40.36
	N.89°40'W.	39.64	.23			39.64
	N.89°49'W.	79.89	.26			79.89
West bdy.of Tp. (5th Guide Mer.E.)	North	480.00	480.00			
North bdy. of Tp.	N.89°59'E.	479.83	.14		479.83	
East bdy.of Tp.	South	240.00		240.00		
Convergency					.33	
	Totals		480.63	480.00	480.30	479.89
			480.00		479.89	
	Error in Latitude		0.63			
	Error in Departure				0.41	

William B. Kimmel,

U.S.Surveyor.

FOR FINAL OATH OF UNITED STATES SURVEYOR.
See Book "D."

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance

of special instructions received from the U. S. Surveyor General for _____

bearing date of the _____ day of _____, 191 , I have well, faithfully, and truly,

in my own proper person, and in strict conformity with said instructions, the Manual of Surveying

Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____

_____

_____

_____ of the _____

_____ Meridian, in the State of _____, 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 _____ and in the specific manner described in the field notes, and that

the foregoing are the original field notes of such survey.

_____
U. S. Surveyor.

Subscribed by said _____, and sworn to before me

this _____ day of _____, 191

[SEAL]

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Phoenix Ariz. June 19*_____, 1915

The foregoing field notes of the survey of *part of the*

Subdivision lines of

Township 3 South Range 30 East

of the Gila and Salt River Base & Meridian

in the State of Arizona

and retracement of part of the South bdy. of said township.

_____

executed by *William B. Kimmel , U.S. Surveyor*

under his special instructions dated *Feb. 18, 1913 for Group 26* _____, ~~191~~ , having been

critically examined, and the necessary corrections and explanations made, the said field notes, and the

& retracements
surveys they describe, are hereby approved.

Frank P. Ingalls
~~U. S.~~ *Surveyor General.*
OF ARIZONA.

~~I certify that the foregoing transcript of the field notes of the above described surveys in _____~~

~~_____, has been correctly copied from the original notes on file in this office.~~

_____
~~U. S. Surveyor General.~~