4—679 **2501**

Exteriors

Book "C"

BOOK 2501

FIELD NOTES

OF THE SURVEY OF THE

EAST, SOUTH and WEST BDRS.

of

T. 24 N. - R. 3 W

Of the Gila and Salt River Base & Meridian,

In the State of Arizona

EXECUTED BY

William B. Kimmel, U.S. Surveyor, and

H. N. Bradstreet, U.S. Transitman

~~In the capacity of U.S. Surveyor~~, under instructions dated April 24, 1913, issued by the United States Surveyor General to govern surveys included in Group No. 27, which were approved by the Commissioner of the General Land Office, May 7, 1913, pursuant to authority contained in the Act of Congress dated August 24, 1912

Survey commenced June 16, 1913

Survey completed June 19 1913

6—151

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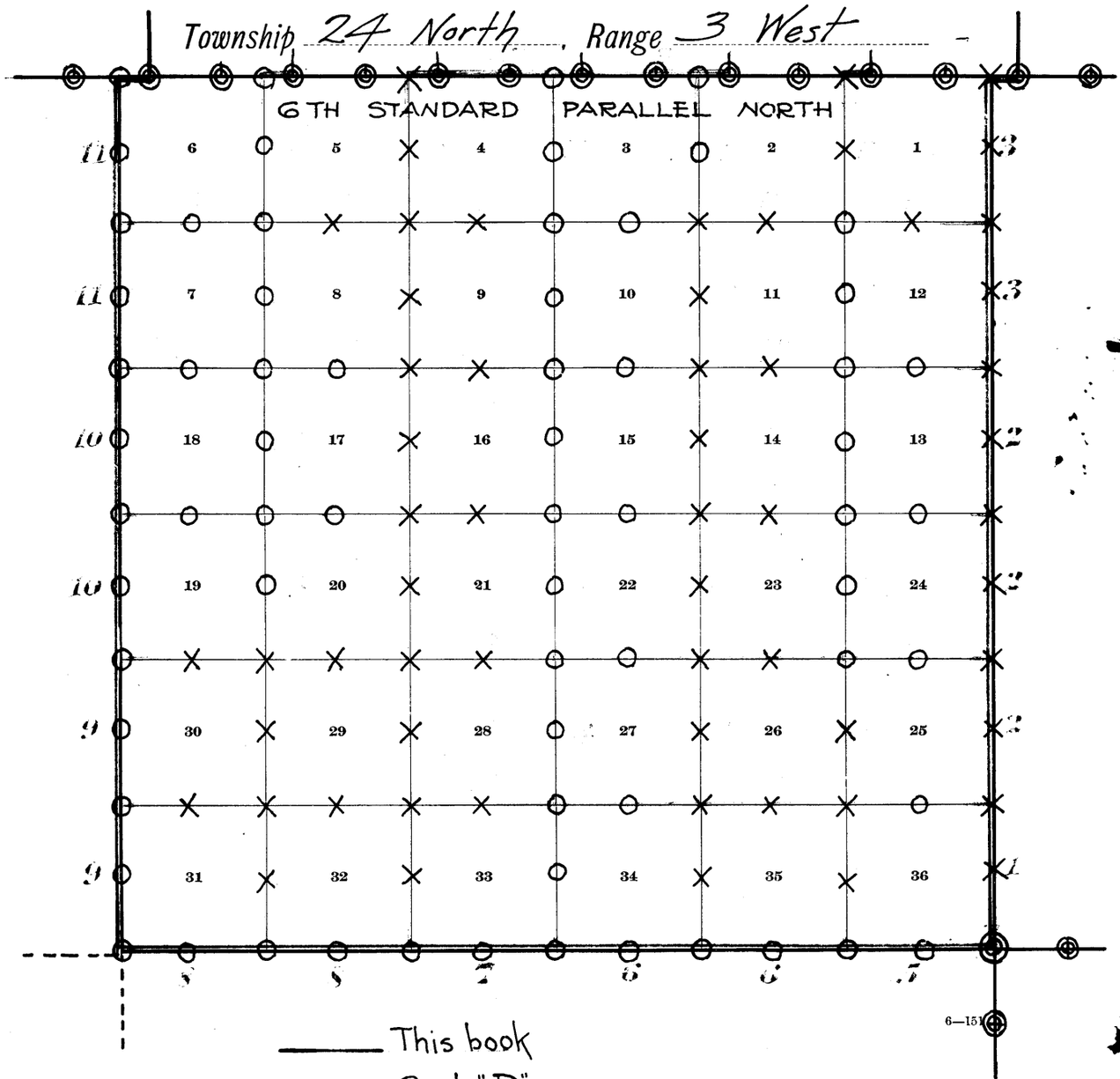
(1A)

BOOK 2501

INDEX DIAGRAM.

EXTERIORS

Township 24 North, Range 3 West



_____ This book

_____ Book "D"

X Corners set by Kimmel.

O " " " Bradstreet

◎ Old corners.

------ Unsurveyed.

Survey commenced June 16,1913,and executed witha Young and Sons Transit,No.8541,with solar attachment.
The instrument was examined,tested on the true meridian at Phoenix,found correct and was approved by the surveyor general for Arizona,November 27,1912.
At our camp in sec.19 T.24 N.,R.3 W.,in lat.35°27'N.,long. 112°39'W.,June 16,1913,at 5h 0m p.m.,l.m.t.,I set off 35°27'N. onthe lat.arc; 23°23'N.on the decl.arc;and determine a meridian with the solar,and mark the line thus determined with a pencil mark on a stake set in the ground about 6 chs.N.of my station.
At the same station,June 16,1913,at 8h 02m p.m.,by my watch which was correct l.m.t.,I observe Polaris in accordance with instructions in the Manual,and mark the line thus determined,by a pin set in the ground about 6 chs.N.of my station.
June 17,1913,at 6h.30m.a.m.,l.m.t.,I lay off the azimuth of Polaris,0°04'to the West,and find that it agrees with the solar observation of yesterday afternoon.
June 17,1913,at 6h.35m.a.m.,l.m.t.,I set off 35°27'N.onthe lat.arc; 23°24½'N.on the decl.arc;this resulting observation also agrees with the previous observations; therefore I conclude that the adjustments of the instrument are correct.

June 17,1913
June 17,1913.At the cor of Twps.23 and 24 N.,Ranges 2 and 3 W.which is a lava stone 18x6x18 ins.above ground.marked with 6 notches on the N.,S.,E.and W.edges,from which
A cedar limb 10 ins.in dia.,bears S.75°E.,166 lks.dist., marked T XXIII N R II W S VI B T
A cedar 12 ins.in dia.,bears S.37°30'W.,62 lks.dist., marked T XXIII N R III W S I B T
There are no other marked trees,Raise a mound of stone 2 ft. base,1½ ft.high S.of cor.
At 10h 08m a.m.,l.m.t.,I set off 35°25½'Nonthe lat.arc; 23°23½' N.on the decl.arc; and determine a true meridian with the solar.
Thence I run,as per instructions,
North on a true line bet.secs.31 and 36.
Over level land,covered with loose rock,through heavy timber.

10.00	Leave level land bears E.and W. ascend S.slope 125 ft.
34.00	Top of ascent,cont.along rolling E slope.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor. marked on brass cap,1913; ¼ S 36 in W.and S 31 in E.half,from which A cedar 10 ins.in dia.,bears S.42°E., 16 lks.dist., marked ¼ S 31 B T A cedar 7 ins.in dia.,bears West,24 lks.dist.,marked ¼ S 36 B T .
48.00	Ascend rolling SE.slope 110 ft.
70.00	Top of ascent,cont.along E.slope,
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.25,30,31 and 36. marked on brass cap,1913; T 24 N in N.half, R 3 W S 25 in NW., R 2 W S 30 in NE., S 31 in SE.and S 36 in SW.quadrant,from which A pinion 5 ins.in dia.,bears N.35°15'E.,48 lks.dist., marked T 24 N R 2 W S 30 B T A cedar 9 ins.in dia.,bears S.59°15'E.,69 lks.dist., marked T 24 N R 2 W S 31 B T A cedar 12 ins.in dia.,bears S.87°W. 7 lks.dist., marked T 24 N R 3 W S 36 B T A cedar 5 ins.in dia.,bears N.4° W. 48 lks.dist., marked T 24 N R 3 W S 25 B T Land,level and hilly, Soil,basalt formation,rocky,4 th.rate Timber,cedar and a few pinion pine.

June 17,1913.

BOOK

North, on a true line bet. secs. 25 and 30,
Ascend rolling SE. slope 50 ft. through heavy timber,
17.00 Ridge bears E. and W. descend rolling slopes NE. 80 ft.
24.00 Leave timber bears NW. and SE. change slope, to N. slope,
39.50 Enter heavy timber bears NW. and SE. foot of descent, bears E. and W. cont. over rolling land drains to the W.
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor.
marked on brass cap, 1913;
¼ S 25 in W. and
S 30 in E. half, from which
A cedar 20 ins. in dia., bears S. 73° 15' E., 64 lks. dist.,
marked ¼ S 30 B T
A cedar 22 ins. in dia., bears S. 28° W., 20 lks. dist.,
marked ¼ S 25 B T
73.00 Leave timber, bears E. and W.
80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30,
marked on brass cap, 1913;
T 24 N in N. half;
R 3 W S 24 in NW.;
R 2 W S 19 in NE.,
S 30 in SE. and
S 25 in SW. quadrants, from which
A cedar 24 ins. in dia., bears N. 46° 30' W., 194 lks. dist.,
marked T 24 N R 3 W S 24 B T
no other trees within limits, raised a mound of stone 2 ft. base, 1½ ft. high W. of cor. pits impracticable.
Land, rolling and hilly.
Soil, basalt formation, rocky, 4 th. rate,
Timber, cedar and a few pinion pine.

June 17, 1913.

June 18, 1913, at 9h 0m a.m., l.m.t., I set off 35° 27' N. on the lat. arc; 23° 25' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 19, 24, 25 and 30, above described,
Thence I run,
North, on a true line bet. secs. 19 and 24,
Over gently rolling land, covered with small lava rock.
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor.
marked on brass cap, 1913;
¼ S 24 in W. and
S 19 in E. half,
raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
pits impracticable.
61.00 Enter scattering timber, bears NW. and SE.
80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24.
marked on brass cap, 1913;
T 24 N in N. half,
R 3 W S 13 in NW.,
R 2 W S 18 in NE.,
S 19 in SE. and
S 24 in SW. quadrants, from which
A cedar 12 ins. in dia., bears N. 1° E., 508 lks. dist.,
marked T 24 N R 2 W S 18 B T
A cedar 40 ins. in dia., bears S. 36° 30' E., 183 lks. dist.,
marked T 24 N, R 2 W S 19 B T
A cedar 36 ins. in dia., bears S. 2° W., 235 lks. dist.,
marked T 24 N R 3 W S 24 B T
A cedar 16 ins. in dia., bears N. 38° W., 315 lks. dist.,
marked T 24 N R 3 W S 13 B T
Land, rolling
Soil, stony and gravelly, 1 st. ½ mile 4 th. rate, the ballance 3 rd. rate.
Timber, cedar.

June 18, 1913.

North, on true line bet. secs. 13 and 18,
Over gently rolling land through scattering timber.
5.00 Leave timber, bears NE. and SW.
14.00 Old road, bears NE. and SW.

40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor. marked on brass cap,1913; ¼ S 13 in W.and S 18 in E.half, raised a mound of stone 2 ft.base,1½ ft.high W.of cor. pits impracticable.
75.25	Cattle trail,bears E.and W.
75.40	Wire fence,bears E.and W.
75.70	Cattle trail,bears E. and W.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.7,12,13 and 18. marked on brass cap,1913; T 24 N in N.half, R 3 W S 12 in NW,, R 2 W S 7 in NE., S 18 in SE.and S 13 in SW.quadrant, raise a mound of stone 2 ft.base,1½ ft.high W.of cor. pits impracticable. Land,rolling, Soil,stony and gravelly,1 st.20 chs.and last 20 chs. 3 rd.rate,ballance 4 th.rate. Timber,cedar.
	June 12, 1913.
	North on a true line bet.secs.7 and 12, Over gently rolling land.
13.00	Enter heavy timber,bears E.and W.
30.00	Leave timber,bears E.and NW.
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; ¼ S 12 in W.and S 7 in E.half, raise a mound of stone 2 ft.base,1½ ft.high W.of cor. pits impracticable.
44.00	A prospect hole bears N.53°E.,about 6 chs.dist.
45.00	Descend N. slope 75 ft.
46.00	Brush fence bears E.and W.
48.00	Enter burnt timber bears E.and W.
58.00	Foot of descent bears NE.and SW.cont.rolling slopes W.
74.00	Leave burnt timber bears NE.and SW.
78.00	Cattle trails bears NE.and SW.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.1,6,7 and 12, marked on brass cap,1913; T 24 N in N. half, R 3 W S 1 in NW., R 2 W S 6 in NE., S 7 in SE.and S 12 in SW.quadrant, raise a mound of stone 2 ft.base,1½ ft.high W.of cor. pits impracticable, an old vacent cabin,bears S.85°E.,about 10 chs.dist. a water tunnel bears east about 16 chs.dist. another water tunnel,bears N.75°E.about 18 chs.dist. Land rolling Soil,sandy and gravelly,the first 60 chs.3 rd.rate,the ballance 2 nd.rate. Timber,cedar, June 12, 1913, At this cor.I set off 23°25'N.onthe decl. arc;and at 11h.59m a.m.l.m.t.,observe the sun on the meridian,the resulting lat.is 35°29½'Nwhich is correct.
	June 12, 1913.
	North on a true line bet.secs.1 and 6, Over gently rolling land,drains W.
.95	Cattle trail,bears E.and W.
6.25	Brush fence,bears NW.and SE.
8.30	Cattle trail,bears NW.and SE.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor. marked on brass cap,1913;

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¼ S 1 in W.and
S 6 in E.half,from which
A cedar 20 ins.in dia.,bears S.26°45'E.,126 lks.dist.,
marked ¼ S 6 B T
A cedar 10 ins.in dia.,bears N.19°W.,45 lks.dist.,
marked ¼ S 1 B T

69.50 Intersect 6 th Standard Par.North at a point West of, and
13.29 chs.dist.,from a cedar post 4 ins.sq.3 ft.protuding
marked T XXV N S C on N., R III W S XXXVI on W.and
R II W S XXXI on E.faces and 6 notches on the E.,W.and
N.faces,from which
A cedar 20 ins.in dia.,bears N.86°E.,55 lks.dist.,
marked T XXV N R II W S XXXI B T
A cedar 10 ins.in dia.,bears N.18°30'E.,25 lks.dist.,
marked T XXV N R II W S XXXI B T
A cedar 20 ins.in dia.,bears N.10°W.,53 lks.dist.,
marked T XXV N R III W S XXXVI B T
there are also indications of pits at this post.
At point of intersection I set an iron post,3 ft.long,
3 ins.in dia.,24 ins.in the ground,for closing cor.of
Tps.24 & 25 N.,Rs.2 and 3 W.,
marked on brass cap,1913;
C C,S.of center,
T 25 N R 3 W S 36 R 2 W S 31 in N.
and T 24 N inS.half;
S 6 R 2 W in SE.and
S 1 R 3 W in SW.quadrant,from which
A cedar 10 ins.in dia.,bears S.77°30'E.,333 lks.dist.,
marked C C T 24 N R 2 W S 6 B T
A cedar 12 ins.in diam.,bears S.13°W.,432 lks.dist.,
marked C C T 24 N R 3 W S 1 B T
Land,gently rolling,
Soil,sandy,2 nd.rate,
Timber,cedar.

June 18,1913

BOOK 2501

Chains.

Survey commenced June 16, 1913, andexecuted with a Young and Sons Light Mountain Transit # 7695 with Smith Solar Attachment. For description of instrument and certificate of approval, see Book "B" Page 1 .

I examine the adjustments of the transit, and correct all errors; then to test the splar apparatus, by comparing its indications, resulting fro m solar . observations made during a.m. and p.m. hours, with a meridian determined by observation on polaris, . as made by Mr. W.B. Kimmel,. and herein before described on page 1 , I proceed as follows:-

At our camp, in the SE¼ of sec. 19, T24N. R3W, in lat 35°27'N., long. 112°39'W, June 16, 1913 at 4h. 30m. p.m. l.m.t., I set off 35°27' N. on the lat. arc, 23°22½' N. on the decl. arc, and determine a meridian with the solar, and mark a point in the line thus determined, by a pencil mark on a stake set in the ground, about 6 chs. N. of my station.

At 6h. 35m. a.m., l.m.t. June 17, 1913 I check my line with the meridian determined the night before; the line as given by my solar is ½' W. of the observed meridian.

At 7h. 32m. a.m., l.m.t. I set off 35°27'N. on the lat. arc, 23°24'N on the decl. arc, and determine a meridian, which gives a line ½'E. of the true meridian.

The magnetic bearing of the true meridian, at 7h. 35m. a.m. l.m.t. is N16°10'W; the angle thus determined gives the the mag. decl. 16°10'E.

June 17, 1913: At the cor. of Tps. 23 & 24N., Rs. 2 & 3 W., which is a lava stone, hereinbefore described, I set off 35°25½'N. on the lat. arc, 23°23½'N. on the decl. arc, and at 10h. 0m. a.m., l.m.t., I determine a meridian with the solar. Thence I run, as per instructions, West, on true line, on S. bdy. of Tp., bet. secs 1 & 36. Over level land, through dense cedar timber.

12.00 Asc. slight E slope, 60 ft.

22.00 S end of rock ridge, brs. N & S. Thence along rolling S. 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;
¼S36 in N, and
S1 in S half, from which
A cedar, 6 ins. diam., brs. N66¼°E 54 lks. dist., marked ¼S36 BT.
A cedar, 12 ins. in dia., brs. S2¾°W , 97 lks. dist., marked ¼S1 BT.
Desc. SW slope, 115 ft.

62.00 Draw, course SW. Asc. slight SE slope, rolling land.

80.00 Set an iron post, 3 ft. long. 3 ins. diam., 24 ins. in the ground, for cor. secs. 35, 36, 1 & 2, marked on brass cap, 1913;
T24N in N,
T23N in S,
R3W in W half;
S35 in NW,
S36 in NE,
S1 in SE, and
S2 in SW quadrant; from which
A cedar, 15 ins. dia., brs. N31°E 74 lks. dist, marked T24N R3W S36 BT.
A cedar, 8 ins. diam., brs. S45°E., 29 lks. dist., marked T23N R3W S1 BT.
Acedar, 17 ins. in dia., brs. S1¼°W, 38 lks. dist., marked T23N R3W S2 BT.
A cedar, 10 ins. in diam., brs. N72¼°W, 19 lks. dist., marked T24N R3W S35 BT.

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South Boundary of T24N R3W.

Chains.

Land rolling and level.
Soil rocky 4th rate.
Timber, and undergrowth, scrub cedar.
Dense timber and undergrowth, 80. chs.
Cloudy at noon.

West, on a true line on S. bdy. of Tp, bet secs. 2 & 35.
Desc. SW slope, through dense cedar timber.

6.00 Rock ledge, 6 ft. high, brs. SE & NW.
11.00 Ash Fork road, brs. SE & NW.
12.00 Brush Fence, brs. SE & NW.
20.00 Leave timber, brs. N & S.
22.00 Deserted stone house, brs. N45° W.
23.35 Rock wall, bank of wash, brs. N & S.
23.75 Enter wash, course SE.
24.50 SW end of broken dirt dam, 10 ft. high.
28.15 Pole fence, brs. SE & NW; asc NE slope, leaving wash.
37.32 Stone house, brs. N5½° W
38.00 Enter cedar timber, brs. NE & SW.
40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor. marked on brass cap, 1913;
¼S35 in N., and
S2 in S. half, from which
A cedar, 26 ins. dia., brs N 6½W, 43 lks. dist., marked ¼S35BT.
A cedar, 15 ins. diam., brs. S15° E, 53 lks. dist., marked ¼S2 BT.
48.00 End of asc., 80 ft. above wash. Low ridge, brs. N & S.
Desc. slight SW slope over rolling land.
49.10 Pole fence, brs. N & S.
80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the grund, for cor. of secs. 34, 35, 2 & 3, marked on brass cap, 1913;
T24N in N.,
T23N in S., and
R3W in W. half;
S34 in NW.,
S35 in NE,
S2 in SE. and
S3 in SW. quadrant; from which
A cedar, 16 ins. dia., brs. N23¾° E. 132 lks. dist., marked T24N R3 W S35 BT.
A cedar, 10 ins. dia., brs. S40¼° E. 129 lks. dist., marked T23N R3W S2 BT.
A cedar, 20 ins. dia., brs. S49¾° W., 77 lks. dist., marked T23N R3W S3 BT.
A cedar, 12 ins. dia., brs. N3¼° W., 85 lks. dist., marked T24N R3W S34 BT.
Land rolling, and level.
Soil rocky 3rd rate brown gumbo.
Timber and undergrowth, scrub cedar.
Dense timber, 62 chs.

West, on true line, on S bdy. of Tp, bet. secs. 3 & 34.
Over rolling land through scattering cedar timber.

14.55 Main cattle trail, brs. NE & SW.
40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, 1913;
¼S34 in N, and
S3 in S half, from which
A cedar, 16 ins. dia., brs. N14¾° W 74 lks. dist., marked ¼S34BT.
A cedar, 30 ins. dia., brs. S49¼ W., 563 lks dist., marked ¼S3 BT.

June 17, 1913.

June 18, 1913: At 8h10m. a.m., l.m.t., I set off 35° 25½' N. on the lat. arc, 23° 25½' N. on the decl. arc, and determine a meridian with the solar at the ¼ sec. cor. of secs. 3 & 34, above described,
Thence I continue measurements,

Chains.

West, on true line, bet. secs 3 & 34.
58.00 Draw, course NW.
62.00 Draw, courseN. Main cattle trail brs. NE & SW.
73.00 Enter dense cedar timber., brs. NNE & SSW.
80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 3, 4, 33 & 34, marked on brass cap,1913;
T24N in N,
T23N in S, and
R3W in W half;
S33 in NW,
S34 in NE,
S3 in SE, and
S4 in SW quadrant; from which
A cedar, 12 ins. dia., brs. N43° E., 123 lks. dist., marked T24N R3W,S34 BT.
A cedar, 10 ins. dia., brs S77¼° E., 51 lks. dist., marked T23N R3W S3 BT.
A cedar, 17 ins. dia., brs S6½° W.,37 lks. dist., marked T23N R3W S4 BT.
A cedar, 10 ins.dia., brs. N26¼° W., 112 lks. dist., marked T24N R3W S33 BT.
Land level and rolling.
Soil, [illegible] 4th rate gumbo, and also rocky limestone.
Timber dense and scattering cedar.
Dense cedar, 10 chs.

West, ~~on a true line~~ on S bdy. of Tp., bet secs. 4 & 33.
Over rolling land, through dense cedar timber and undergrowth.
12.00 Low ridge, brs. N. & S.
20.00 Leave timber, brs. NW. & SE.
26.00 Level land .
33.30 Main cattle trail, brs. N & S. Enter scattering cedar
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap,1913;
¼S33 on N, and
S4 on S half,from which
A cedar, 36 ins. diam., brs. N47½ W.,194 lks. dist., marked ¼S33 BT.
A cedar, 22 ins. dia., brs. S6° W. 155 lks., dist., marked ¼S4 BT
42.00 Wash, course NE. Thence over rolling land.
43.20 Old road, brs. NE & SW.
45.00 Along S slope. Wash 50 lks. S line.
58.00 Asc. SE slope, gradually.
62.00 End of asc. Along slight N slope.
80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 32,33, 4 & 5, marked on brass cap,1913;
T24N in N,
T23N in S, and
R3W in W half;
S32 in NW,
S33 in NE,
S4 in SE,and
S 5 in SW quadrant; from which
A cedar, 5 ins. dia., brs. N21½° E., 71 lks. dist., marked T24N R3W S33 BT.
A cedar, 6 ins. dia., brs. S41¾° E 27 lks. dist., marked T23N R3W S4 BT.
A cedar, 6 ins. dia., brs S45½° W., 107 lks. dist., marked T23N R3W S5 BT.
A cedar, 15 ins. dia., brs. N44° W., 39 lks. dist., marked T24N R3W S32 BT.
Land level and rolling.
Soil 4th rate rocky, limestone formation.
Timber and undergrowth, scattering and heavy cedar.
Heavily timbered land, 20 chs.
At this point I set off 23° 25' N. on the decl. arc,

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Chains.	
	and at 12h. 6$\frac{3}{4}$m. ' pm, l.m.t., I observe the sun on the meridian; the resulting lat is 35° 25'N. which is only $\frac{1}{2}$' less than the correct lat.
	West, on true line, on S. bdy. of Tp., bet. secs 5 & 32.
	Over gently rolling land through scattering cedar timber.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913; $\frac{1}{4}$S32 on N, and S5 on S half, from which
	A cedar, 26 ins. dia., brs. N1$\frac{1}{2}$°W 188lks. dist., marked $\frac{1}{4}$S32 BT.
	A cedar, 22 ins. dia., brs. S11$\frac{1}{2}$°W., 263 lks. dist., marked $\frac{1}{4}$S5 BT.
62.00	Draw, course NE. Asc slight SE slope. Leave timber, brs. NE & SW.
72.10	Road, brs. SE & NW.
72.40	Old road, brs. SE & NW.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 31, 32, 5 & 6, marked on brass cap, 1913; T24N in N., T23N in S., and R3W in W. half; S31 in NW.; S32 in NE., S5 in SE., and S6 in SW. quadrant; from which
	A cedar 12 ins. dia., brs. S33$\frac{3}{4}$°E., 150 lks. dist., marked T23N R3W S5 BT.
	A cedar, 36 ins. dia., brs. S60°W., 59 lks. dist., marked T23N R3W S6 BT.
	A cedar limb, 10 ins. diam., brs. N57°W., 166 lks. dist., marked T24N R3W S31 BT.
	No other trees within limits. Raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land rolling and level. Cedar.
	Soil, rocky 4th rate Gumbo; also limestone formation.
	Timber, scattering scrub cedar.
	Undergrowth, buck brush.
	West, on true line, on S bdy. of Tp, bet. secs. 6 & 31.
	Along slight S slope. Enter dense cedar timber.
4.00	North side of rock hole, 60 ft. deep, 4 chs. wide.
6.00	Enter level land; leave timber, brs. NE & S.
30.00	Main cattle trail, brs. NE & SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913; $\frac{1}{4}$S31 in N, hand S 6 in S half, and
	raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
77,99	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of Tps. 23 & 24 N., Rs. 3 & 4W., marked o n brass cap, 1913; T24N in N., R3W in E., T23N in S., and R4W in W. half; S36 in NW., S31 in NE., S6 in SE., and S1 in SW. quadrant,
	and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.
	Highest round peak in Mt. Floyd brs. S. 69°26'W.
	Frisco Peak brs. S85° 20'E.
	Land, level and rolling.
	Soil, very rocky 4th rate gumbo.
	Timber, heavy scrub cedar.
	No undergrowth

Chains.

From the cor. of Tps. 23 & 24N., Rs. 3 & 4 W., above described, I run, as per instructions, on a true line,
North, bet. secs 31 & 36. Variation 15¾°
Over level land, very rocky without timber.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor, markedon brass cap, 1913;
¼S36 in W., and
S 31 in E. half;
and raise a mound of stone, 2 ft. base, 1½ ft. high, W . of cor. Pits impracticable.

June 18, 1913.

June 19, 1913: At 6h. 50m. a.m., l.m.t., I set off 35°26' N on the lat. arc, 23° 27' N. on the decl arc, and determine a meridian with the solar at the ¼ sec. cor . bet. secs. 31 & 36, above described,
Thence I continue, measurements
North, on a true line bet secs. 31 & 36.
Desc slight NW slope, over very rocky ground.

48.20 End of desc.; road brs. E & W.
56.00 Wash, 1 ch. wide, 3 ft. deep; course NE. Over level land.
76.00 Wash, 1 ch. wide, 4 ft. deep; course NE.
77.30 Old road, and main cow trail, brs. NE & SW.
80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 25, 30, 31 & 36, marked on brass cap, 1913;
T24N in N half;
R4W S25 in NW,
R3W S30 in NE,
S31 in SE, and
S36 in SW quadrant;
and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
Land level and slight rolling.
Soil rocky sandy loam, 3 rd rate.
No timber or undergrowth.

North, on true line bet. secs. 25 & 30.
Up grassy valley, notimber or undergrowth.

29.00 Old road, brs. NE & SW.
40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, 1913;
¼S25 in W, and
S 30 in E half;
and raise a mound of stone, 2 ft. base, 1½ ft. high, W of cor. Pits impracticable.
72.00 Enter scattering cedar timber, brs. NE & SW.
76.00 Leave timber, brs. E & W.
78.00 Enter scattering timber, brs. E & W.
80.00 Set an iron post, 3 ft long, 3 ins. dia., 24 ins. in the ground, for cor of secs. 19, 24, 25 & 30, marked on brass cap, 1913;
T24N in N half;
R4W S24 in NW,
R3W S19 in NE,
S 30 in SE, and
S25 in SW quadrant; from which
A cedar, 24 ins. dia., brs. N43½°E., 24 lks. dist., marked T24N R3W S19 BT.
A cedar, 13 ins. dia., brs. S8°E., 8 lks. dist., marked T24N R3W S30 BT.
A cedar, 14 ins. diam., brs. S 62¾°W., 99 lks. dist., marked T24N R4W S25 BT.
A cedar, 10 ins. dia., brs. N71½°W., 81 lks. dist., marked T24N R4W S24 BT.
Land level.
Soil, rocky 3rd rate gumbo.
Timber, scrub cedar.

BOOK 250

Chains.	
	North on true line bet. secs. 19 & 24.
	Over level alnd, through scattering timber.
25.20	Road, brs. SE & NW.
28.00	3 strand wire fence, brs SE & NW.
28.30	Draw, course E. Asc slight SE slope.
30.00	Enter dense cedar timber, brs. E & W.
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec cor., marked on brass cap,1913; ¼S24 in W, and S 19 in E half; from which
	A cedar, 5 ins. dia., brs. N66¾°E., 33 lks.dist., marked ¼S19 BT.
	A cedar, 13 ins. dia., brs. S45½°W., 4 lks. dist., marked ¼S24 BT.
44.00	End of asc., level land.
71.40	Wash, course NE; 30lks. wide, 2 ft. deep.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs.13, 18, 19 & 24, marked on brass cap,1913; T24N in N half; R4W S13 in NW, R3W S18 in NE, S19 in SE, and S24 in SW quadrant; from which
	A cedar, 8 ins. dia., brs. N10½°E 156 lks. dist., marked T24N R3W S18 BT.
	A cedar, 6 ins. dia., brs. S 56°E., 169 lks. dist., marked T24N R3W S19 BT.
	A cedar limb, 7 ins. dia., brs. S81½°W 279 lks. dist., marked T24N R4W S24 BT.
	A cedar, 16 ins. dia., brs. N49°W., 379 lks. dist., marked T24N R4W S13 BT.
	Land level and rolligg.
	Soil, gumbo and sandy loam, 3rd rate.
	Timber, scattering cedar.
	At this cor. I set off 23°26½'N. on the decl. arc, and at 12h. 01m. p.m., l.m.t., I observe the sun on the meridian; the resulting lat. is35°28'N., which is only 0.1' greater than the correct lat.

	North on true line bet secs. 13 & 18.
	Over level land, scattering ce dar.
2.00	Enter heavy cedar timber, brs. E & W.
4.00	3 strand barb wire fence, brs E & W; extends about 7 chs W, corners, and brs N & S.
8.00	Leave heavy cedar, enter scattering.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec cor., marked on brass cap,1913; ¼S13 in W, and S18 in E half, from which
	A cedar, 26 ins diam., brs. S 34°E., 167 lks. dist., marked ¼S18 BT.
	A cedar, 20 ins. dia., brs. S46° W., 199 lks. dist., marked ¼S13 BT.
43.00	Leave timber, brs. NW & SE.
70.00	Wash, course E.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 7., 12, 13 & 18, marked on brass cap,1913; T24N in N half; R4W S12 in NW, R3W S7 in NE, S18 in SE, and S13 in SW quadrant;
	and raise a mound of stone, 2 ft. base, 1½ ft. high, W of cor. Pits impracticable.
	Land level and rolling.
	Soil, rocky 3rd rate gumbo and sandy loam.
	Timber scattering cedar.

BOOK 2501

Chains.

North on true line bet. secs. 7 & 12.
Over level land, scattering scrub cedar.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, 1913;
¼S12 in W, and
S7 in E half, from which
A cedar, 6 ins. dia., brs. N21°E., 195 lks. dist., marked ¼S7 BT.
A cedar, 14 ins. dia., brs. N3½°W., 292 lks. dist., marked ¼S12 BT.
43.00 Wash, course E.
58.00 Desc. slight NE slope.
66.00 End of desc; thence over level land.
80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7 & 12, marked on brass cap, 1913;
T24N in N half;
R4W S1 in NW,
R3W S6 in NE,
S7 in SE, and
S12 in SW, quad.
and raise a mound of stone, 2 ft. base, 1½ ft. high, W of cor. Pits impracticable.
Land level and rolling.
Soil rocky 3rd rate gumbo.
Timber and undergrowth scattering scrub cedar.

North on true line bet. secs. 1 & 6.
Over level rocky land, no timber.
18.00 Draw course SE. Asc slight SW. slope, 70 ft.
21.55 Old road, brs SE. & NW.
36.00 End of asc., W. end of low spur ridge. Desc slight NE. slope.
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec cor., marked on brass cap, 1913;
¼S1 in W. half, and
S6 in E. half,
and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
70.40 Intersect Sixth Standard Parallel North 7.17 chs. West of the Standard cor. of Tps. 25N., Rs. 3 & 4 W., which is a malpais stone, 12 X 15 X 6 ins. above ground, marked SC on N. face, with 6 notches on N., E. and W. faces, from which
A cedar, 10 ins. dia., brs. S87°E., 246 lks. dist., marked SCT25N R3&4W BT.
A cedar, 24 ins. diam., brs S81¼°E., 292 lks. dist., marked T25N R3&4W BT.
At the point of intersection, I set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing cor. of Tps. 24N., Rs. 3 & 4W., marked on brass cap, 1913;
CC, S. of Centre,
T25N,
R4W S36, and
R3W S31 in N., and
T24N in S. half;
S6 R3W in SE.,
S1 R4W in SW. quadrant;
and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable.
Land level and rolling.
Soil rocky 4th rate gumbo.
No timber or undergrowth.

June 19, 1913.

12 277 Boundaries of T.24 N, R. 3 W.

BOOK 2501 Latitudes, departures, and closing errors.

Line designated.		True bearing	Dist.	Latitudes. N.	Latitudes. S.	Departures. E.	Departures. W.
South T. Boundary W.		West	477.99	- - - -	- - - -	- - - -	-477.99
West T. Boundary W.		North	470.40	- 470.40	- - - -	- - - -	- - - -
6th. standard par. N.							
South bdy. sec. 36, T.25N. R.4W.		East	7.17	- - - -	- - - -	- 7.17	- - - -
South bdy. secs. 31 & 32.		East	160.00	- - - -	- - - -	-160.00	- - - -
South bdy. sec. 33.	T.25N. R.3W.	N.89°30'E.	40.22	- - - .35	- - - -	- 40.22	- - - -
		S.89°50'E.	40.25	- - - -	- - .12	- 40.25	- - - -
South bdy. sec. 34.		S.89°23'E.	42.53	- - - -	- - .46	- 42.53	- - - -
		East	40.00	- - - -	- - - -	- 40.00	- - - -
South bdy. sec. 35		East	80.00	- - - -	- - - -	- 80.00	- - - -
South bdy. sec. 36		East	66.71	- - - -	- - - -	- 66.71	- - - -
East. Boundary W.		South	469.50	- - - -	469.50	- - - -	- - - -
Convergency -				- - - - - - - -	- - - - - - - -	- - .51	- - - -
	Totals - - - - - - - - - - - -			470.75	470.08	477.39	477.99
				470.08			477.39
	Error in lat. - - - - - -			0.67	Error in dep. - -		0.60

William B. Kimmel,
U.S. Surveyor,
[illegible]
U.S. Transitman,

4—680

for CERTIFICATE OF ASSISTANTS.

see Book "B"

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying 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 him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

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

.....

U. S. Surveyor.

13 279

for FINAL OATH OF UNITED STATES SURVEYOR.

see Book "B"

BOOK 2501

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 accordance 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, Arizona, March 2, 1914

The foregoing field notes of the survey of the East, South and West Boundaries of Township 24 North, Range 3 West, of the Gila and Salt River Base and Meridian, Arizona.

executed by William B. Kimmel, U.S. SURVEYOR, and H. N. Bradstreet, U.S. TRANSITMAN under ~~his~~ their special instructions, for Group 27 dated April 24, 1913, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank Pingalle

U. S. Surveyor General.

~~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~~

6—2761