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2878

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Book "C"
(Subdivisions)

BOOK 2878

FIELD NOTES

OF THE SURVEY OF THE

2878

COMPLETION OF THE

SUBDIVISION LINES OF TOWNSHIP 17 NORTH, RANGE 18 WEST,

2878

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Guy H. Richardson

and

Otis Ross,

In the capacity of U. S. Surveyors, under instructions dated January 4, 1915, issued by the United States Surveyor General to govern surveys included in Group No. 43, which were approved by the Commissioner of the General Land Office, January 22, 1915.

Survey commenced February 6, 1915.

Survey completed February 19, 1915.

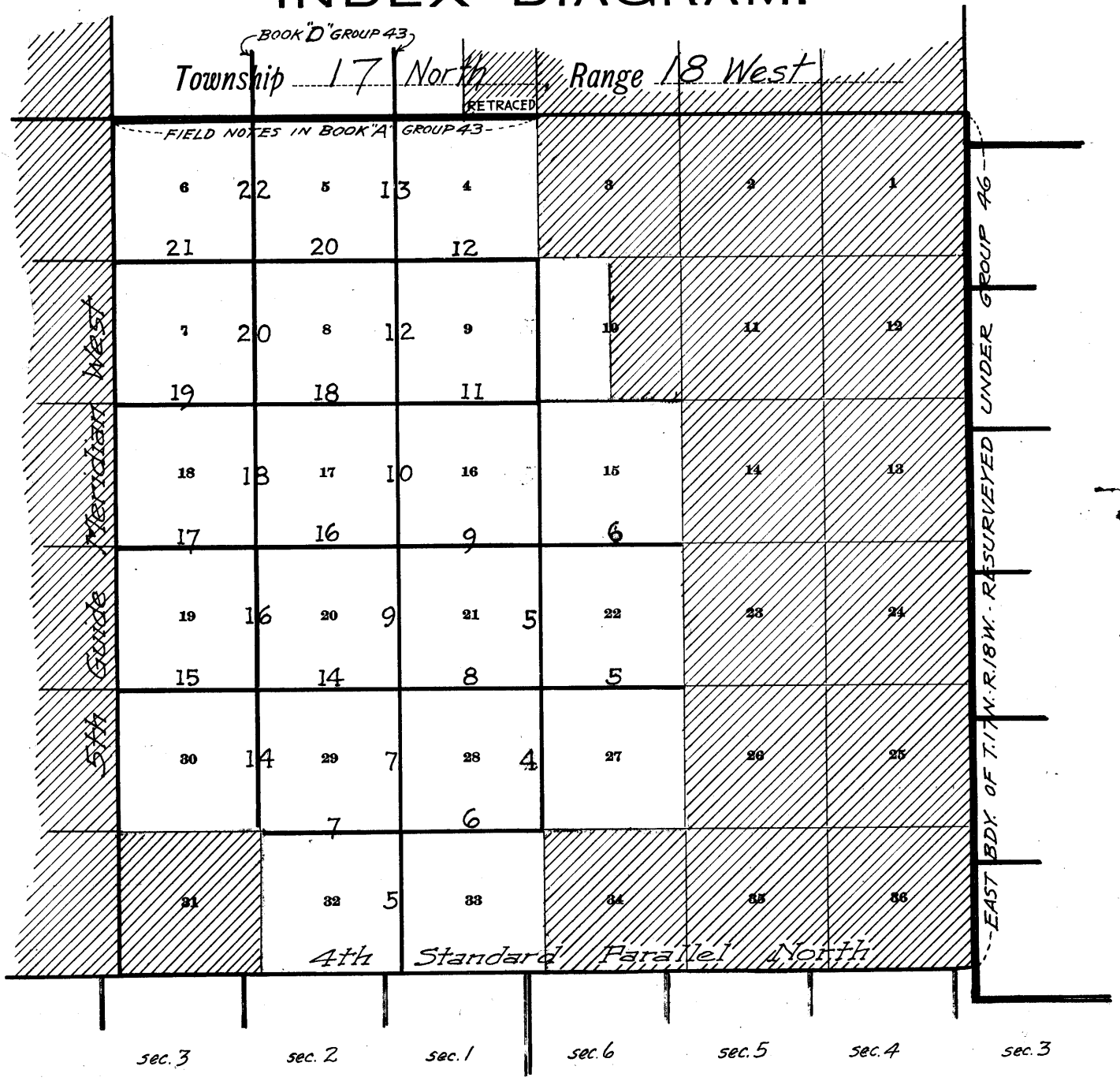
Executed under assignment
Instructions dated *Jan. 31-1915.*

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BOOK 2878

Book "C" of Group 43

INDEX DIAGRAM.



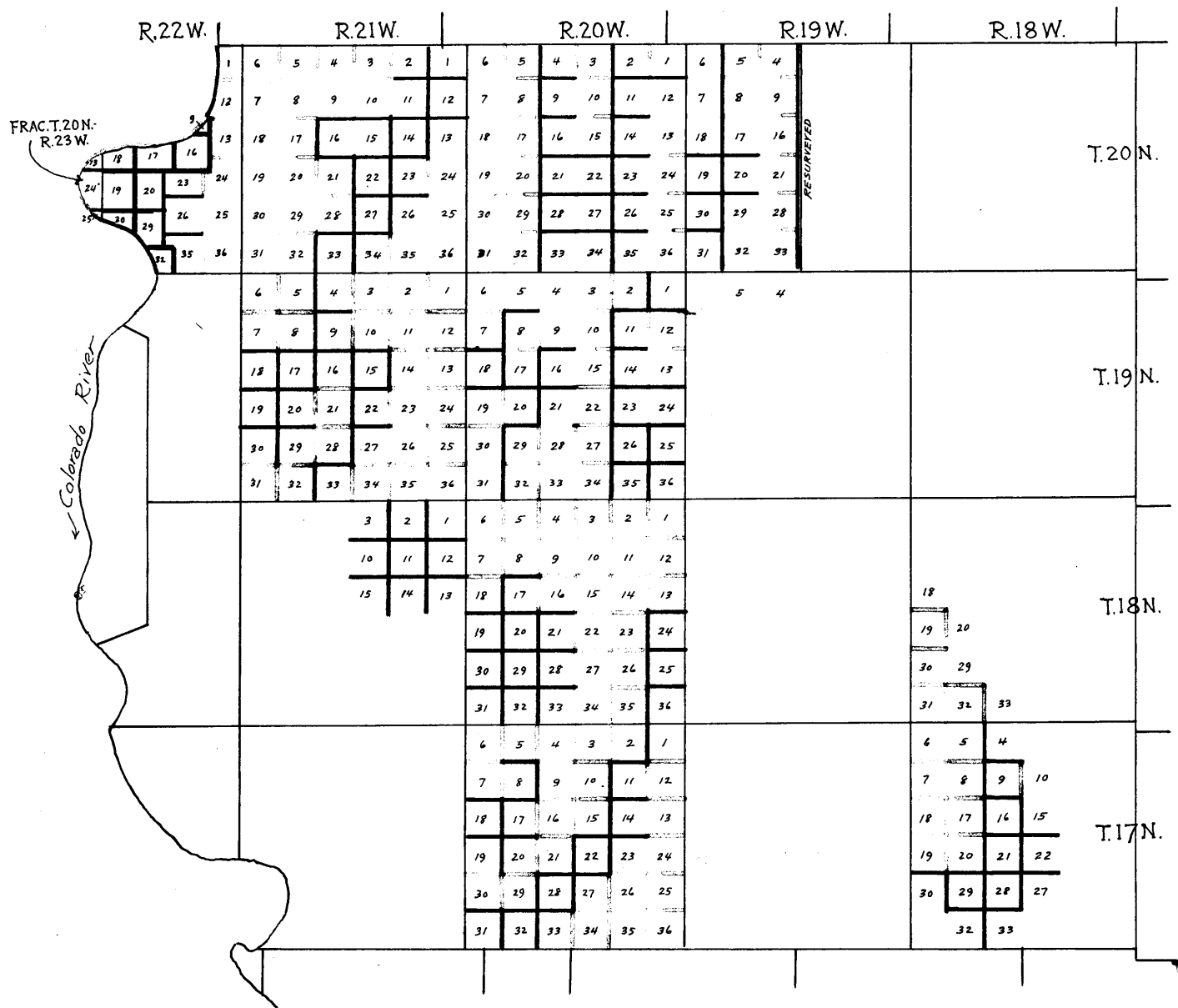
- Surveys described in field notes of Group 43
- Surveys described in field notes of Group 42
- Surveys described in field notes of Group 46
- Accepted surveyed lines.
- ////// Shaded area ^{surveyed} as per accepted plats on file.

DIAGRAM

SHOWING THE RESPECTIVE SURVEYS,
RETRACEMENTS AND RESURVEYS OF
SUBDIVISION LINES EXECUTED BY
EACH SURVEYOR AND TRANSITMAN
UNDER INSTRUCTIONS FOR

GROUP 43, ARIZONA.

PLAT 2878



————— Surveyed by

Guy H. Richardson,
U.S. Surveyor.

===== Retraced or Resurveyed by

- - - - - Surveyed by

Otis Ross, U.S. Surveyor.

—————> Retraced or Resurveyed by

—————> Surveyed by

Hugo Price, U.S. Transitman.

—————> Retraced or Resurveyed by

FINAL CERTIFICATE OF U.S.SURVEYORS AND TRANSITMEN.

We, the undersigned, hereby certify on honor that, in pursuance of special instructions received from the U.S. Surveyor General for Arizona, bearing date of January 4, 1915, we have well, faithfully and truly, in our own proper persons, 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

G R O U P 43,

which are represented on the diagram on the reverse hereof as having severally been executed by us, and under our direction; and we do further certify on honor 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 Arizona, and in the specific manner described in our respective field notes.

Guy V. Richardson
U.S. Surveyor.

Chas Ross
U.S. Surveyor.

Hugo Price
U.S. Transitman.

Chains.

Survey commenced Feb. 6, 1915, and executed jointly by Guy H. Richardson, and Otis Ross, U.S. Surveyors, using Young and Sons' light mountain transits, Nos. 8477 and 8484, with Smith Solar attachments. The horizontal limbs are provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and decl. arcs.

The instruments were approved by the Assistant Supervisor of Surveys for Arizona and California on Jan. 31, 1915. Guy H. Richardson, U.S.S.

Feb. 3, 1915, I examine the adjustments of the transits, and correct the level and collimation errors; then to test the solar apparatus by comparing indications resulting from solar observations made during a.m. and p.m. hours, I proceed as follows:

At a point near my camp, in the SE. $\frac{1}{4}$ of sec. 12, T. 17 N., R. 18 W. of the Gila and Salt River Base and Meridian, at 4h. p.m., l.m.t., I set off $16^{\circ}34'S.$ on the decl. arc, $34^{\circ}52'N.$ on the lat. arc, and determine a meridian with the solar, and mark the meridian thus determined with a tack point on a hub about 5 chs. north of my station.

At 10h. 34m. p.m., l.m.t., I observe Polaris at western elongation, and mark the line thus obtained with a tack point on a hub about 5 chs. northerly from my station.

On Feb. 4, 1915, at 7h. a.m., I lay off the azimuth of Polaris $1^{\circ}24'$ to the east, and note that the meridian thus determined checks with the meridian established by solar observation yesterday afternoon. At 8h. a.m., l.m.t., I set off $16^{\circ}22'S.$ on the decl. arc, and determine a meridian with the solar, and note that same is identical with the meridian determined by Polaris observation.

Having tested the solar apparatus of both instruments for a.m. and p. m. observations and found them to check

4 2. Completion of Subdivision of Township 17 North, Range 18 West.

Chains.

with the meridian determined by Polaris observation, I conclude that they are in good adjustment.

Before commencing the completion of survey of the Subdivision lines of this township, I retrace all connecting old surveys, and find all old corners in place, and all lines within the prescribed limit of error, as set forth by the Manual of Surveying, in alinement and measurement.

Feb. 8, 1915. I commence at old corner of secs. 27, 28, 33 and 34, which is a malpais stone, 12x10x8 ins. above ground, marked and witnessed as described by the Surveyor General. At this cor. at 9h. a.m., l.m.t., I set off 15°9' S on the decl. arc; and 34° 49½' on the lat. arc, and determine a meridian with the solar.

Thence I run,

N. 0° 2' W., bet. secs. 27 and 28.

Over rough mountainous land; descend.

- 9.60 Draw, 155 ft. below sec. cor., course NE.; ascend.
- 19.40 Top of 110 ft. ascent; descend.
- 24.40 Foot of 34 ft. descent; ascend.
- 40.00 Top of 110 ft. ascent, set a malpais stone, 14x10x8 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor. Ascend.
- 64.00 Top of ascent, 442 ft. above ¼ sec. cor. Descend NE. slope.
- 73.80 Foot of 110 ft. descent; ascend.
- 80.00 Top of 70 ft. ascent, mark a cross (x) on rock in place, for cor. of secs. 21, 22, 27 and 28, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of corner.

Land, mountainous.

Soil, stony, 4th rate.

No timber.

Undergrowth, cactus and greasewood.

Completion of Subdivision of Township 17 North, Range 18 West. 5.

Chains.

East on a random line, bet. secs. 22 and 27.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.94 Intersect N. and S. line 17 lks. N. of old cor.of secs. 22,23,26 and 27, which is a malpais stone,15x12x10 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence I run,
N. $89^{\circ}53'W.$ on a true line, bet. secs. 22 and 27.
Over rolling mountainous land; ascend over rolling S.W. slope.

29.14 Ravine, course SE.; ascend NE. slope.

32.00 Top of ascent, 492 ft. above sec.cor.; descend slightly.

35.00 Foot of descent 40 ft. below 32 chain point. Ascend NE. slope.

39.97 20 ft. above 35 chain point,
Set a malpais stone, 12x12x10 ins., 9 ins. in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{2}$ on N. face,and raise a mound of stone 2 ft.base,1 $\frac{1}{2}$ ft.high,N.of cor. Descend.

46.80 Foot of descent 35 ft.below $\frac{1}{4}$ sec.cor. Ascend.

55.64 Top of ascent 280 ft. above $\frac{1}{4}$ sec.cor.;descend NW. slope.

74.00 Canyon, course NE.; continue descent.

79.94 Cor.of secs.21,22,27 and 28, 280 ft.below 55.64 chain pt.
Land, rough, mountainous.
Soil, stony, 4th rate.
No timber.
Undergrowth, scattering cactus and sage brush.

Feb. 8, 1915.

Feb. 9, 1915. At the cor.of secs.21,22,27 and 28,at 10h. Om. a.m.,1.m.t.,I set off $14^{\circ}49\frac{1}{2}'S.$ on the decl.arc, $34^{\circ}50\frac{1}{2}'$ on the lat.arc;and determine a meridian with the solar. Thence I run,
N. $0^{\circ}2'W.$ bet. secs.21 and 22.
Ascend along E. slope,over rolling mountainous land,
40.00 210 ft. above sec.cor., set a malpais stone 16x12x10 ins., 10 ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face, and raise a mound of stone 2 ft.base,1 $\frac{1}{2}$ ft.high,W.of cor.

6 Completion of Subdivision lines of Township 17 North, Range 18 W.

Chains At this cor., at
apparent noon, I set off $14^{\circ} 48' S.$ on the decl. arc, and
observe the sun on the meridian for latitude. The re-
sulting latitude is $34^{\circ} 50\frac{1}{2}' N.$

Continue to ascend.

59.85 Top of ascent, 115 ft. above $\frac{1}{4}$ sec. cor. Descend.

80.00 Set a malpais stone, $14 \times 12 \times 12$ ins., 10 ins. in the ground
for cor. of secs. 15, 16, 21 and 22, marked with 3 notches
on S. edge and 3 notches on E. edge, and raise a mound
of stone 2 ft. base, $1\frac{1}{2}$ ft high, west of cor. Cor. is
140 ft. below 59.85 chain point.

Land, rolling and mountainous.

Soil, stony, 4th rate.

No timber.

Undergrowth, scattering cactus, sage brush and greasewood.

S. $89^{\circ} 53' E.$ on a random line, bet. secs. 15 and 22.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.16 Intersect N. and S. line 7 lks. N. of the old cor. of secs.
14, 15, 22 and 23, which is a malpais stone, $12 \times 12 \times 8$ ins.
above ground, marked and witnessed as described by the
Surveyor General. Thence I run,

N. $89^{\circ} 50' W.$ on a true line, bet. secs. 15 and 22.

Ascend over rolling, mountainous land.

40.08 730 ft. above sec. cor., set a malpais stone, $14 \times 12 \times 10$ ins.,
10 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on N. face, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Continue ascent.

45.00 Top of ascent 210 ft. above $\frac{1}{4}$ sec. cor.; descend.

52.70 Foot of descent, 300 ft. below 45 chain point. Ascend.

64.00 Top of ascent, 315 ft. above 52.70 chain point; descend.

80.16 Foot of descent, 365 ft. below 64.00 chain point, cor. of
secs. 15, 16, 21 and 22.

Land, rolling, mountainous.

Soil, stony, 4th rate. No timber.

Undergrowth, cactus, sagebrush and greasewood.

Feb. 9, 1915.

Completion of Subdivision lines of Township 17 North, Range 18 W. 7

Chains.

Feb. 14, 1915: I commence at the cor. of secs. 15, 16, 21 and 22, hereinbefore described, and at 9h. Om. a.m., l.m.t., set off $13^{\circ}11\frac{1}{2}'S.$ on the decl. arc; and $34^{\circ}51'N.$ on the lat. arc, and determine a meridian with the solar, and run,
 N. $0^{\circ}2'W.$ on a random line, bet. secs. 15 and 16.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect old cor. of secs. 9, 10, 15 and 16, which is a lava rock, $10 \times 14 \times 4$ ins. above ground, marked and witnessed as described by the Surveyor General.
 Thence I run,
 S. $0^{\circ}2'E.$ on a true line, bet. secs. 15 and 16. Descend 30 ft. over rolling land, covered with lava boulders, to
 1.00 Ascend north slope in draw.
 15.00 Top of ascent and head of draw, course N. 255 ft. above sec. cor., thence over plateau, descending slightly.
 40.00 Set a lava stone, $16 \times 10 \times 8$ ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of corner, 25 ft. below 15 chain point.
 62.60 100 ft. below $\frac{1}{4}$ sec. cor. Descend from plateau over west slope.
 80.00 Cor. of secs. 15, 16, 21 and 22, 490 ft. below $\frac{1}{4}$ sec. cor. Land, rolling, mountainous. Soil, stony, 4th rate. Undergrowth, scattering cacti, sage brush and greasewood,

U. S. Surveyor.

Otis Ross, U.S. Surveyor.
 I commence at the cor. of secs. 9, 10, 15 and 16, and run, N. $0^{\circ}2'W.$, on a random line, bet. secs. 9 and 10.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.24 Intersect a point 21 lks. W. of the old cor. of secs. 3, 4, 9 and 10, which is a lava stone, $8 \times 4 \times 3$ ins. above ground, marked and witnessed as described by the Surveyor General.
 Thence I run,
 S. $0^{\circ}7'W.$ on a true line, bet. secs. 9 and 10.
 Ascend over rolling, mountainous land.
 10.75 Top of spur, slopes NW., 20 ft. above sec. cor.; descend.
 27.15 Gulch, course SE., 200 ft. below top of spur; ascend.
 30.45 Top of spur, slopes E., 45 ft. above gulch; descend.
 35.37 Center of wash, 3 chs. wide, course NE., 53 ft. below top of spur; ascend.
 40.12 Set a lava stone, $16 \times 12 \times 10$ ins., 11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor.
 55.50 Top of spur, slopes west, 407 ft. above wash; descend slightly.
 61.68 Gulch, course W.; ascend.
 69.80 Top of spur, slopes W., 226 ft. above gulch; descend.
 72.45 Gulch, course W., 148 ft. below top of spur; ascend.
 78.65 Top of ascent, 94 ft. above gulch; descend SW. slope.
 80.24 Old cor. of secs. 9, 10, 15 and 16, 54 ft. below 78.65 chain point.
 Land, rolling and rough, mountainous. Soil, stony, 4th rate. Undergrowth, cacti and greasewood.

Feb. 14, 1915.

U. S. Surveyor.

Guy H. Richardson, U.S. Surveyor.
 Feb. 8, 1915: I commence at the old standard cor. of secs. 32 and 33, on the S. bdy. of the Tp., which is a lava stone, $8 \times 12 \times 6$ ins. above ground, marked and witnessed as described by the Surveyor General, and at 9h. Om., a. m., l.m.t., set off $15^{\circ}09'S.$ on the decl. arc; and $34^{\circ}48\frac{1}{2}'N.$ on the lat. arc, and determine a meridian with the solar, and run,

8. Completion of Subdivision of Township 17 North, Range 18 W.

Chains Thence I run,
N. $0^{\circ}2'$ W., bet. secs. 32 and 33.
Over rolling land, covered with lava boulders and scant
growth of vegetation.

20.00 Begin to ascend.

40.00 240 ft. above sec. cor. set a lava stone $18 \times 10 \times 6$ ins., 12
ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face,
and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.

Continue to ascend.

45.45 Top of ledge rock, bears E. and W., 90 ft. above $\frac{1}{4}$ sec.
cor.; descend.

50.00 Foot of rocks, 60 ft. below top; ascend.

65.65 Rough rocky cliffs, bear E. and W. Continue to ascend.

72.00 Top of cliffs, 470 ft. above 50 chain point. Descend.

80.00 Set a quartz rock, $14 \times 10 \times 8$ ins., 11 ins. in the ground,
for cor. of secs. 28, 29, 32 and 33, marked with 1 notch
on S. edge, and 4 notches on E. edge, and raise a mound
of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Cor.
is 140 ft. below 72.00 chain point.

Land, rolling.
Soil, stony, 4th rate.
No timber.
Undergrowth, scattering sage brush and greasewood.

S. $89^{\circ}56'$ East, on a random line, bet. secs. 28 and 33.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.18 Intersect N. and S. line, 10 lks. N. of old cor. of secs. 27,
28, 33 and 34, hereinbefore described.

Thence I run,
N. $89^{\circ}56'$ W., on a true line, bet. secs. 28 and 33.
Over rolling plateau, covered with lava boulders.

30.24 Descend.

39.09 Draw, course S. 80 ft. below cor. Ascend gradually.

40.09 Set a malpais stone $10 \times 8 \times 6$ ins., on surface rock, in a mound
of stone for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of
cor.

56.26 70 ft. above 39.09 chain point. Descend.

65.20 Draw, course SE., 110 ft. below 56.26 chain point. Ascend
gradually.

80.18 Cor. of secs. 28, 29, 32 and 33. 30 ft. above 65.20 chain point.

Land, rolling.
Soil, stony, 3rd rate. No timber.
Undergrowth, scattering sage brush and greasewood.

Feb. 8, 1915.

Completion of Subdivision lines of Township 17 North, Range 18 W. 9

Chains. Feb.12, 1915. ~~commence~~ At the cor.of secs. 28,29,32 and 33, hereinbefore described, ~~at~~ at 9h.0m.a.m.,l.m.t., set off 13°52'S.on the decl.arc, and 34°49'on the lat. arc; and determine a meridian with the solar, ~~and~~ ~~run~~. Thence I run, West, on a random line, bet. secs.29 and 32.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.98 Intersect N₂ and S.line 32 lks.N.of the old cor.of secs.29, 30,31 and 32, which is a lava stone, 12x8x8 ins.above ground, marked and witnessed as described by the Surveyor General. Thence I run, N. 89° 46' E., on a true line, bet. secs.29 and 32. Descend over rolling, mountainous land.

6.90 Canyon, course SW., 100 ft. below sec.cor.; ascend.

14.20 Top of ascent, 100 ft. above bottom of canyon. Descend.

23.00 Bottom of 125 ft. descent; canyon, course SW. Ascend.

30.00 Edge of rolling mesa 65 ft. above canyon. Thence over mesa.

37.00 Leave mesa; descend.

39.99 Set a malpais stone, 12x10x8 ins., 8 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N $\frac{1}{2}$ face, and raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$ ft.high, N.of cor. Continue descent.

42.80 Dry wash, course S., 60 ft. below top of mesa. Ascend gradually.

50.00 25 ft. above wash, begin to descend.

79.98 Cor.of secs.28,29,32 and 33,90 ft.below 50 chain point. Land rolling. Soil, stony, 4th rate. No timber. Undergrowth, scattering cactus, sage brush and greasewood.

Feb.12, 1915.

Feb.9,1915. ~~commence~~ From the cor.of secs.28,29,32 and 33, I run, N. 0°2' W., bet.secs.28 and 29. Descend over broken N. slope.

19.90 Dry wash, course E., 10 ft.below sec.cor.; ascend.

40.00 180 ft. above wash, set a malpais stone, 12x10x8 ins., 8 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$ ft. high, W.of cor.

10 Completion of Subdivision lines of Township 17 N., R.18 W.

Chains.	
	Continue to ascend.
64.84	Top of ridge, brs. SE. and NW. 237 ft. above $\frac{1}{4}$ sec. cor. Descend slightly over rolling land.
69.40	Foot of descent, 42 ft. below top of ridge. Ascend.
80.00	Set a malpais stone 12x10x8 ins., 10 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. edge, and 4 notches on E. edge, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Cor. is 140 ft. above 69.40 chain point. Land, rolling, mountainous. Soil, stony, 4th rate. No timber. Undergrowth, scattering sage brush and greasewood.

	S. 89° 56' E., on a random line, bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 19 lks. N. of the cor. of secs. 21, 22, 27 and 28. Thence I run, N. 89° 48' W., on a true line, bet. secs. 21 and 28. Ascend over rough, mountainous land.
2.83	Top of ascent, 60 ft. above cor. Descend.
19.10	Canyon, course SW., 430 ft. below 2.83 chain point. Ascend.
29.83	Top of ascent 280 ft. above 19.10 chain point. Descend.
35.62	Bottom of descent 135 ft. below 29.83 chain point. Ascend.
40.00	Set a malpais stone, 12x10x8 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. $\frac{1}{4}$ sec. cor. is 130 ft. above 35.62 chain point. Continue to ascend.
50.00	Top of ascent, 85 ft. above $\frac{1}{4}$ sec. cor. Descend.
60.78	Foot of descent 280 ft. below 50 chain point. Ascend.
61.70	Top of ridge, brs. SE. and NW., 25 ft. above 60.78 chain point. Descend.
65.70	Foot of descent 25 ft. below 61.70 chain point. Ascend.
70.58	Top of ridge, brs. NW. and SE. 130 ft. above 65.70 chain point. Descend.
80.00	Cor. of secs. 20, 21, 28 and 29, 90 ft. below top of ridge. Land, rough, mountainous. Soil, stony, 4th rate. No timber.

Completion of Subdivision lines of Township 17 North, Range 18 W. 11

Chains.

Undergrowth, scattering cactus, sage brush and greasewood.

Feb. 9, 1915.

Feb. 13, 1915: At the cor. of secs. 20, 21, 28 and 29, at 10h.a.m., l.m.t., set off $13^{\circ}31'S$. on the decl. arc, $34^{\circ}50'$ on the lat. arc, and determine a meridian with the solar. Thence I run,

N. $0^{\circ}2'W$. bet. secs. 20 and 21.

Ascend S. slope, over rough land.

11.85 Top of spur, slopes SW., 380 ft. above sec. cor. Descend.

18.50 Head of draw, course SW. 80 ft. below spur; ascend over rolling land.

37.00 Top of ascent, 200 ft. above 18.50 chain point. Descend NW. slope.

40.00 Point for $\frac{1}{4}$ sec. cor. falls on malpais boulder, 30x24x20 ins. above ground. Mark a cross (x) and $\frac{1}{4}$ at point, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Cor. is 70 ft. below 37 chain point. Descend NE. slope.

59.30 Draw, course SE., 290 ft. below $\frac{1}{4}$ sec. cor.; ascend.

70.35 Top of spur, slopes SE., 280 ft. above draw.

Thence over rolling land; descend to

73.50 30 ft. below spur; ascend to

80.00 Malpais rock in place, 18x15x5 ins. above ground. Mark a cross (x) at point for cor. of secs. 16, 17, 20 and 21, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Cor. is 140 ft. above 73.50 chain point.

Land, rolling, mountainous. Soil, stony, 4th rate.

No timber. Undergrowth, cactus and greasewood.

S. $89^{\circ}48'E$., on a random line, bet. secs. 16 and 21.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.54 Intersect N. and S. line 3 lks. N. of the cor. of secs. 15, 16, 21 and 22. Thence I run,

N. $89^{\circ}47'W$. on a true line, bet. secs. 16 and 21.

Descend over rolling, mountainous land.

6.00 Head of draw, course SW. 140 ft. below cor. Ascend.

21.45 Top of spur, brs. S. 120 ft. above 6 chain point.

12 Completion of Subdivision of Township 17 North, Range 18 West.

Chains.	Descend W. slope.
33.20	Canyon, course S. 210 ft. below top of spur; ascend.
39.77	Set a lava stone, 12x10x8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Continue to ascend.
62.30	Top of ascent, bears N. and S., 700 ft. above canyon. Thence over rolling land; descend.
79.54	Cor. of secs. 16, 17, 20 and 21, 200 ft. below 62.30 chain point. Land, rough, mountainous. Soil, stony, 4th rate. No timber. Undergrowth, cactus and greasewood. February 13, 1915.

	Feb. 15, 1915: At the cor. of secs. 16, 17, 20 and 21, at 9h. 0m. a.m., l.m.t., I set off $12^{\circ}51'S.$ on the decl. arc, $34^{\circ}51'$ on the lat. arc, and determine a meridian with the solar. Thence I run, N. $0^{\circ} 2' W.$, bet. secs. 16 and 17. Ascend over rough mountainous land.
12.65	Top of ridge, bears E. and W., 335 ft. above sec. cor.; descend.
14.00	Draw, course E., continue to descend.
27.00	Foot of descent, 440 ft. below top of ridge; ascend.
40.00	125 ft. above 27.00 chain point, set a lava stone 24x10x8 ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Feb. 15, 1915.
	Feb. 17, 1915: Continue same line. Ascend rocky cliffy S. slope.
67.70	Top of spur, slopes E., 430 ft. above $\frac{1}{4}$ sec. cor.; descend rocky cliffy N. slope.
80.00	340 ft. below top of spur. Set a granite stone, 16x12x10 ins., 12 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. edge, and 4 notches on E. edge, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Completion of Subdivision of Township 17 North Range 18 W. 13.

Chains.

Land, rolling, mountainous.

Soil, stony, 4th rate. No timber.

Undergrowth, scattering cactus and greasewood.

Feb. 15, 1915. At cor. of secs. 8, 9, 16 and 17, at apparent noon, I set off 12°8'S. on the decl. arc; and

observe the sun on the meridian for lat.; the resulting lat. is 34°52'N.

S. 89° 47'E on a random line, bet. secs. 9 and 16.

40.00 Set temp. 1/4 sec. cor.

79.70 Intersect N. and S. line, 7 lks. S. of old cor. of secs. 9, 10, 15 and 16, hereinbefore described.

Thence I run,

N. 89°50'W. on a true line, bet. secs. 9 and 16.

Over rolling & mountainous land; descend.

6.23 Gulch, course N., 80 ft. below sec. cor. Ascend.

30.70 Top of 400 ft. ascent; descend.

39.85 28 ft. below top of ascent. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., with a brass cap marked

1/4 S 9

S 16

1915

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Descend from 1/4 sec. cor.

56.55 390 ft. below 1/4 sec. cor.; ascend.

63.76 Top of ascent, 290 ft. above 56.55 chain point. Descend.

79.70 Cor. of secs. 8, 9, 16 and 17, 155 ft. below 63.76 chain point.

Land, rolling & mountainous.

Soil, stony, 4th rate. No timber.

Undergrowth, scattering cactus and greasewood.

Feb. 17, 1915.

Feb. 18, 1915: At the cor. of secs. 8, 9, 16 and 17, at 10h.

Off. a.m., 1.m.t., I set off 11°48 1/2'S. on the

decl. arc, and 34° 52' on the lat. arc, and determine

14 22. Completion of Subdivision of Township 17 North, Range 18 West.

Chains.

a meridian with the solar.

Thence I run,
 N.0° 2'W., bet. secs.8 and 9.

Descend over rough, mountainous land to
 4.85 80 ft. below sec.cor. Ascend S.slope.
 21.50 Top of ridge, bears E.and W. 350 ft. above 485 chain
 point; descend.
 40.00 385 ft. below top of ridge, set a lava stone, 16x12x8 ins.
 in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and
 raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft. high, W.of
 cor.
 44.75 Draw, course NE., 110 ft. below $\frac{1}{4}$ sec.cor. Ascend.
 48.50 Top of spur, slopes NE., 105 ft. above 44.75 chain point.
 Descend.
 74.25 Canyon, course SE., 170 ft. below top of spur; ascend.
 80.00 110 ft. above canyon, set a granite stone, 16x14x12 ins.,
 12 ins. in the ground for cor.of secs. 4,5,8 and 9,
 marked with 5 notches on S. face, and 4 notches on E.
 edge, and raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$ ft. high,
 W.of cor.

Land, rough, mountainous.
 Soil, stony, 4th rate, No timber.
 Undergrowth, scattering cactus, sage brush and greasewood.

S.89°50'E, on a random line, bet. secs.4 and 9.

40.00 Set temp. $\frac{1}{4}$ sec.cor.
 80.06 Intersect N $\frac{1}{2}$ and S. line, 18 lks.S. of the old cor.of secs.
 3,4,9 and 10, which is a rock in place, 8x4x2ft. above
 ground, marked with a cross (x) at point for cor.

Thence I run,
 N.89° 58' W.on a true line, bet. secs. 4 and 9.
 Ascend over rolling, mountainous land.

10.00 400 ft. above sec.cor.; descend.
 15,90 Foot of 145 ft. descent, draw, course SE.; ascend.
 24.33 165 ft. above draw; descend.
 30.41 Foot of 75 ft. descent; ascend.

Completion of Subdivision lines of Township 17 North, Range 18 W. 15

Chains.

40.03 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with a brass cap marked

$\frac{1}{4}$ S 4
S 9
1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.; descend 120 ft. to

47.43 Ascend 340 ft. to

62.37 Spur slopes SE., descend.

80.06 Cor. of secs. 4, 5, 8 and 9, 300 ft. below top of spur.

Land, mountainous.

Soil, stony, 4th rate.

No timber. Undergrowth, scattering cactus and greasewood.

N. $0^{\circ}2'$ W., on a random line, bet. secs. 4 and 5.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.33 Intersect N. bdy. of the Tp., 28 lks. W. of the cor. of secs. 4, 5, 32 and 33, described in Book "A."

Thence I run,

S. $0^{\circ}10'$ W., on a true line, bet. secs. 4 and 5.

Over rough, mountainous land; ascend.

3.40 Top of 125 ft. ascent; descend.

16.90 Foot of 315 ft. descent, draw, course E.; ascend.

40.33 480 ft. above draw, set a lava stone, 20x12x6 ins., 15 ins.

in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and

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

Continue to ascend over cliffs.

52.80 Top of spur, slopes E., 370 ft. above $\frac{1}{4}$ sec. cor.; descend.

S. slope, over cliffs.

80.33 Cor. of secs. 4, 5, 8 and 9, 675 ft. below top of spur.

Land, rough, mountainous.

Soil, stony, 4th rate.

No timber. Undergrowth scattering cactus, sage brush and greasewood.

Feb. 18, 1915.

16 Completion of Subdivision lines of Township 17 North, Range 18 West

Chains	
	Feb.12, 1915: From the old cor.of secs.29,30,31 and 32,hereinbefore described, I run, N.0° 3'W., bet. secs.29 and 30. Descend over rolling land.
7.80	Canyon, bears SW., 80 ft. below sec.cor.; ascend.
14.70	Top of ascent,100 ft.above canyon. Thence over slightly rolling land.
40.00	Set a lava stone,14x12x10 ins.,10 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face,and raise a mound of stone, 2 ft.base,1 $\frac{1}{2}$ ft.high,W.of cor. At this cor. at apparent noon,I set off 13° 50'S.on the decl.arc,and observe the sun on the meridian for lat. The resulting lat.is 34°50'N. Thence over rolling land.
52.00	Dry wash, course SW.
70.00	Dry wash,course SW. Ascend.
80.00	Set a lava stone,14x10x8 ins.,10 ins.in the ground for cor.of secs.19,20,29 and 30,marked with 2 notches on S.edge and 5 notches on E.edge,and raise a mound of stone, 2 ft.base,1 $\frac{1}{2}$ ft.high,W.of cor. Cor.is 125 ft. above wash. Land,rolling. Soil, stony, 3rd rate. No timber. Undergrowth,cactus,sagebrush and greasewood. Feb.12,1915.

	Feb.13,1915: N.89°46'E., on a random line, bet. secs.20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.14	Intersect N.and S.line, 2 lks.N.of the cor.of secs. 20, 21,28 and 29. Thence I run, S. 89 ° 47' W.on a true line, bet. secs.20 and29. Ascend over rolling, mountainous land.
8.95	Draw, course SW, 16 ft. above sec.cor.; ascend.
16.00	Top of S. slope of butte, bears N. and S. 140 ft.above draw, Another butte bears S.15 chs.dist, over rolling land, descending.
40.07	Foot of descent 315 ft.below 16 chain point, set a granite

Completion of Subdivision of Township 17 North, Range 18 West, 17

Chains.
 stone, 12x10x8 ins., 8 ins. in the ground for $\frac{1}{4}$ sec. cor.,
 marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft.
 base, $1\frac{1}{2}$ ft. high, N. of cor.

46.57 Begin to descend.
 57.60 Foot of 87 ft. descent, canyon wash, course SW.; ascend.
 62.90 Top of spur, slopes SW., 85 ft. above wash; descend.
 76.65 Dry wash, 122 ft. below top of spur, course SW.; ascend.
 80.14 Cor. of secs. 19, 20, 29 and 30, 18 ft. above wash.

Land, rolling, mountainous.
 Soil, stony, 4th rate. No timber.
 Undergrowth, cactus and greasewood.

Feb. 13, 1915.

Feb. 12, 1915.

West, on a random line, bet. secs. 19 and 30.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect the 5th. Guide Meridian West, 9 lks. S. of the old
 cor. of secs. 19, 24, 25 and 30, which is a malpais stone,
 14x12x12 ins. above ground, marked and witnessed as
 described by the Surveyor General.

Thence I run,
 S. 89° 56' E. on a true line, bet. secs. 19 and 30.
 Ascend over rolling, mountainous land.

2.65 Top of spur, brs. NW. and SE., 30 ft. above sec. cor.; de-
 scend.

40.08 825 ft. below spur, set a lava stone, 16x12x10 ins., 14 ins.
 in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of
 cor.

Thence over rolling land, gradually descending.

80.08 Cor. of secs. 19, 20, 29 and 30, 100 ft. below $\frac{1}{4}$ sec. cor.
 Land, rolling, mountainous.
 Soil, stony, 3rd rate. No timber.
 Undergrowth, scattering sage brush and greasewood.

Feb. 12, 1915.

Guy H. Richardson,
U. S. Surveyor.

18 15. Completion of Subdivision lines of Township 17 North, Range 18 W.

Chains. Lines run by Otis Ross, U.S. Surveyor, as follows:

Feb. 15, 1915: At the cor. of secs. 19, 20, 29 and 30. at 10h. 0m., a.m., l.m.t., set off 12° 51' S. on the decl. arc 34° 50' on the lat. arc, and determine a meridian with the solar. Thence I run,

N. 0° 3' W., bet. secs. 19 and 20.

Over rolling land, descend.

- 5.00 Wash, course SE., 28 ft. below sec. cor.; ascend SW. slope.
- 34.25 Top of spur, brs. E. and W., 210 ft. above wash; descend NW. slope.
- 40.00 150 ft. below top of spur, set a malpais stone, 18x16x8 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Descend NW. slope.
- 48.05 Wash, course SW., 35 ft. below 1/4 sec. cor.; ascend SW. slope.
- 63.05 Top of spur, bears NE., 100 ft. above wash; descend.
- 65.00 Wash, course SE., 25 ft. below top of spur; ascend.
- 80.00 Top of spur, slopes east, 200 ft. above wash. Set a malpais stone, 16x10x6 ins., 12 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. edge and 5 notches on E. edge, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. At this cor. at apparent noon, I set off 12° 49' S. on the decl. arc; and observe the sun on the meridian for lat. The resulting lat. is 34° 51 1/2' N. Land, rolling and mountainous. Soil, stony, 4th rate. No timber. Undergrowth, cactus and greasewood.

N. 89° 47' E., on a random line, bet. secs. 17 and 20.

- 40.00 Set temp. 1/4 sec. cor.
- 79.88 Intersect cor. of secs. 16, 17, 20 and 21. Thence I run, S. 89° 47' W., on a true line, bet. secs. 17 and 20. Ascend over rough, mountainous land.
- 15.55 Top of cliffs, bear N. and S., 280 ft. above sec. cor. Descend.
- 39.94 620 ft. below top of cliffs. Set a malpais stone, 18x

Completion of Subdivision lines of Township 17 North, Range 18 West. 19

Chains, 16x6 ins., 12 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N.of cor.
Ascend from $\frac{1}{4}$ sec.cor.

43.30 Wash, course SW., continue ascent.

49.90 Top of ascent, 30 ft. above $\frac{1}{4}$ sec.cor.; descend.

61.90 Foot of 100 ft. descent; wash, course SW., ascend.

79.88 90 ft. above wash, cor.of secs.17,18,19 and 20.
Land, rough, mountainous.
Soil, stony, 4th rate.
No timber. Undergrowth, cactus and greasewood.
----- Feb. 15, 1915. -----
Feb. 17, 1915.
N.89° 56' W., on a random line, bet. secs.18 and 19.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.35 Intersect 5th.Guide Meridian West, 21 lks.S.of old cor.of secs.13,18,19 and 24, which is a granite stone, 8x8x4 ins., above ground, marked and witnessed as described by the Surveyor General.
Thence I run,
S.89°47'E., on a true line, bet. secs.18 and 19.
Descend over rolling, mountainous land.

12.30 Gulch, course SE., 175 ft.below sec.cor.; ascend slightly.

20.65 Gulch, course S. 25 ft.above 12.30 chain point; ascend.

28.75 Top of spur, 140 ft. above gulch, at 20.65 chain point.
Thence over rolling land, descending.

32.50 Low spur, 60 ft.below spur at 28.75 chain point, slopes S.; descend.

40.35 Set a malpais stone, 16x12x10 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, N.of cor. 45 ft.below spur at 32.50 chain point. Ascend slightly.

41.10 Top of low spur, 20 ft.above $\frac{1}{4}$ sec.cor., slopes S.; descend.

42.75 Gulch, course S.50 ft.below spur; ascend.

52.80 Top of spur, sloping S.395 ft. above gulch, descend.

70.40 Wash, course SE.330 ft.below top of spur; ascend.

75.38 Spur brs.S.10 ft.above wash; descend.

80.35 Cor.of secs.17,18,19 and 20, 35 ft.below spur at 75.38 chain point.

20 20. Completion of Subdivision lines of Township 17 North Range 18 W

Chains.

Land, rolling, and mountainous.

Soil, stony, 4th rate.

No timber. Undergrowth, cactus and greasewood.

Feb. 17, 1915.

Feb. 17, 1915: At the cor. of secs. 17, 18, 19 and 20, at 10h.0m. a.m., l.m.t., I set off $12^{\circ}9'S.$ on the decl. arc; and $34^{\circ}51'$ on the lat. arc, and determine a meridian with the solar.

Thence I run,

N. $0^{\circ}3' W.$, bet. secs. 17 and 18.

Ascend over rolling, mountainous land.

- 7.20 Top of spur, brs. SE., 136 ft. above sec. cor.; descend.
 17.43 Gulch, course SE., 155 ft. below spur; ascend.
 29.40 Top of spur, bears E., 140 ft. above gulch; descend.
 34.38 Gulch, course SE., 28 ft. below spur; ascend.
 40.00 Set a malpais stone, 16x10x6 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. 70 ft. above gulch.
- Continue to ascend.
- 80.00 750 ft. above $\frac{1}{4}$ sec. cor., set a malpais stone 16x8x4 ins. 12 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked with 4 notches on S. edge, and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling, mountainous.

Soil, stony, 4th rate.

No timber.

Undergrowth, scattering cactus and greasewood.

N. $89^{\circ}47'E.$, on a random line, bet. secs. 8 and 17.40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.62 Intersect N. and S. line, 4 lks. S. of the cor. of secs. 8, 9, 16 and 17.

Chains	Thence I run
	S. 89° 45' W. on a true line bet. secs. 8 and 17.
	Asc. over rolling land.
39.86	385 ft. above sec. cor., set a malpais stone, 16 X 12 X 8 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
	Continue to asc.
65.00	Enter mesa, bears NE. and SW., 190 ft. above 1/4 sec. cor.
71.60	Leave mesa, bears N. and S. Descend.
79.62	Cor. of secs. 7, 8, 17 and 18, 96 ft. below mesa.
	Land rolling.
	Soil, stony, 3rd. rate.
	No timber.
	Undergrowth cactus and greasewood.
	N. 89° 47' W. on a random line bet. secs. 7 and 18.
40.00	Set temp. 1/4 sec. cor.
80.53	Intersect the 5th. Guide meridian W. at old cor. of secs. 7, 12, 13 and 18, which is a malpais stone, 18 X 10 X 5 ins. above ground, marked and witnessed as described by the surveyor general.
	Thence I run
	S. 89° 47' E. on a true line bet. secs. 7 and 18.
	Desc. over rolling land.
8.50	Gulch, course SW., 260 ft. below sec. cor., asc.
27.40	Top of 190 ft. ascent, desc. over rolling land.
40.53	Set a malpais stone, 18 X 6 X 6 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. 80 ft. below 27.40 chain point.
	Thence over gently rolling land, descending.
74.55	Gulch, course NW. 50 ft. below 1/4 sec. cor. Descend.
80.53	Cor. of secs. 7, 8, 17 and 18, 42 ft. above gulch.
	Land rolling.
	Soil, stony, 3rd. rate.
	No timber.

Chains	Undergrowth scattering cactus and greasewood. Feb. 17, 1915.

	Feb. 18, 1915. At the cor. of secs. 7, 8, 17 and 18, at 10h. Om., a. m., l.m.t. set off $11^{\circ} 48'$ S. on the decl. arc, $34^{\circ} 52'$ on the lat. arc, and determine a meridian with the solar.
	Thence I run
	N. $10^{\circ} 3'$ W. bet. secs. 7 and 8.
	Over broken and rolling land. Descending.
32.35	Gulch, course W. 85 ft. below cor. Ascend.
40.00	Set a malpais stone, 17 X 12 X 9 ins., 13 ins. in the ground for $1/4$ sec. cor., marked $1/4$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
44.95	Top of hill, bears E. and W., 30 ft. above $1/4$ sec. cor., desc. NW. slope.
73.94	Foot of 585 ft. descent, gulch, course W., asc.
80.00	118 ft. above gulch, set a malpais stone, 12 X 10 X 8 ins., 9 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land rolling.
	Soil, stony, 4th. rate.
	No timber.
	Undergrowth scattering cactus, greasewood and sagebrush.

	N. $89^{\circ} 45'$ E. on a random line bet. secs. 5 and 8.
40.00	Set temp. $1/4$ sec. cor.
79.70	Intersect N. and S. line 35 lks. N. of the cor. of secs. 4, 5, 8 and 9.
	Thence I run
	West on a true line bet. secs. 5 and 8.
	Desc. SW. slope.
7.75	Gulch, course SE., 65 ft. below sec. cor., asc.

Completion of the Subdivision of T. 17 N., R. 18 W.

Chains

39.85 785 ft. above gulch, set a malpais stone, 14 X 12 X 10 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

42.70 58 ft. above 1/4 sec. cor., desc.

60.70 Gulch, course SW., 183 ft. descent., asc.

69.40 Top of 25 ft. ascent, descend.

75.30 Wash, 50 lks. wide, course SW., 145 ft. descent, asc.

78.30 Top of ridge, bears NE. and SW., 119 ft. above wash, desc.

79.70 Cor. of secs. 5, 6, 7 and 8, 34 ft. below top of ridge.

Land rolling.

Soil, stony, 3rd. rate.

No timber.

Undergrowth cactus and greasewood.

N. 89° 47' W. on a random line bet. secs. 6 and 7.

40.00 Set temp. 1/4 sec. cor.

80.62 Intersect the 5th. Guide meridian W. 14 lks. S. of the old cor. of secs. 1, 6, 7 and 12. which is a malpais stone, 8 X 10 X 10 ins. above ground, marked and witnessed as described by the surveyor general.

Thence I run

S. 89° 41' E. on a true line bet. secs. 6 and 7.

Desc. over rolling land.

35.60 Wash, course NW., 440 ft. below sec. cor., Ascend.

40.62 Set a malpais stone, 22 X 14 X 8 ins., 15 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., 15 ft. above 35.60 chain point. Ascend.

48.65 Top of spur, slopes N., 208 ft. above 1/4 sec. cor., desc.

74.00 Wash, course S., 115 ft. below top of spur, asc.

80.62 Cor. of secs. 5, 6, 7 and 8, 232 ft. above wash.

Land rolling.

Soil, stony, 4th. rate.

No timber.

Undergrowth cactus and greasewood.

Chains Feb. 19, 1915. At the cor of secs. 5, 6, 7 and 8, at 10h. 0m., a. m., l.m.t., I set off $11^{\circ} 27'$ S. on the decl. arc, and $34^{\circ} 53'$ on the lat. arc, and determine a meridian with the solar, and run N. $0^{\circ} 3'$ W. on a random line bet. secs. 5 and 6.

40.00 Set temp. $1/4$ sec. cor.

80.45 Intersect the N. bdy. of the township 26 lks W. of the cor. of secs. 5, 6, 31 and 32, described in Book "A." Thence I run. S. $0^{\circ} 8'$ W., on a true line bet. secs. 5 and 6. Asc. over rolling land.

11.15 Top of spur, slopes W., 52 ft. above sec. cor., desc.

25.90 Gulch, course W., 200 ft. below top of spur, asc.

40.45 Top of 190 ft. ascent, set a malpais stone, 14 X 12 X 7 ins., 11 ins. in the ground for $1/4$ sec. cor., marked $1/4$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. At this cor., at apparent noon I set off $11^{\circ} 26'$ S. on the decl. arc, and observe the sun on the meridian at noon for lat. The resulting lat. is $34^{\circ} 53'$ N. Desc. from $1/4$ sec. cor.

54.50 Gulch, course W, 105 ft. below $1/4$ sec. cor., asc.

61.00 Top of spur, bears NE., 168 ft. above gulch, desc.

80.45 Cor. of secs. 5, 6, 7 and 8, 170 ft. below top of spur. Land rolling. Soil stony, 4th. rate. No timber. Undergrowth scattering cactus and greasewood.

----- Otis Ross. U.S. Surveyor. Feb. 19, 1915.

Boundaries of that portion of T.17 N., R.18 W., Subdivided under Group 43.

Latitudes, departures, and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
S.bdy. of Tp.,	West,	160.00				160.00
Subdivisional bdy.	N.0°3'W.,	80.00	80.00			0.07
	West,	80.06				80.06
W.bdy. of Tp. (5th. Guide Mer. W.)	N.0°3'W.	399.64	399.64			0.35
N.bdy. of Tp.	S.89°52'E.	200.79		0.47	200.79	
	East,	40.00			40.00	
Subdivisional Boundary	S.0°5'E.	80.08		80.08	0.12	
	East,	80.00			80.00	
	S.0°1'E.	320.00		320.00	0.09	
	West	80.00				80.00
Convergency,	S.0°2'E.	80.00		80.00	0.05	
					0.29	
Totals,			479.64	480.55	321.34	320.48
				479.64	320.48	
Error in latitude,-----			0.91			
Error in departure,-----					0.86	

GENERAL DESCRIPTION.

The portion of this township surveyed as described in the foregoing notes, is very rough and mountainous, and is covered with lava boulders. There is very poor grazing and no water in this township. There are no settlers in this township, and no timber. The undergrowth is cactus and greasewood.

26 For certificates of U. S. Surveyors, see page 2 of this book.

FINAL OATH OF UNITED STATES SURVEYOR.

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____



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, February 26, 1917.

The foregoing field notes of the survey of the completion of _____ Subdivision of _____ Township 17 North, Range 18 West, of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Guy H. Richardson and Otis Ross, U.S. Surveyors, under special instructions dated January 4, 1915, for Group 43, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank O. Felt 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.