

3489

4-679

Book "C"

BOOK 3489

FIELD NOTES

OF THE RESURVEY OF THE

Fifth Standard Parallel North through part of Ranges 3 and 4 West,

and of part of the East boundary of

Township 20 North, Range 4 West,

AND OF THE SURVEY OF

part of the Subdivision lines of

Township 20 North, Range 4 West,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Otis Ross, U. S. Surveyor

In the capacity of U. S. Surveyor, under Special Instructions dated October 15, 1919, issued by the United States Surveyor General to govern surveys included in Group No. 104, Arizona, which were approved by the Commissioner of the General Land Office, October 29, 1919, and Assignment Instructions dated November 7, 1919

Resurvey and Survey commenced February 16, 1920

Resurvey and Survey completed February 19, 1920

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Original 1

INDEX DIAGRAM.

Township Range

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

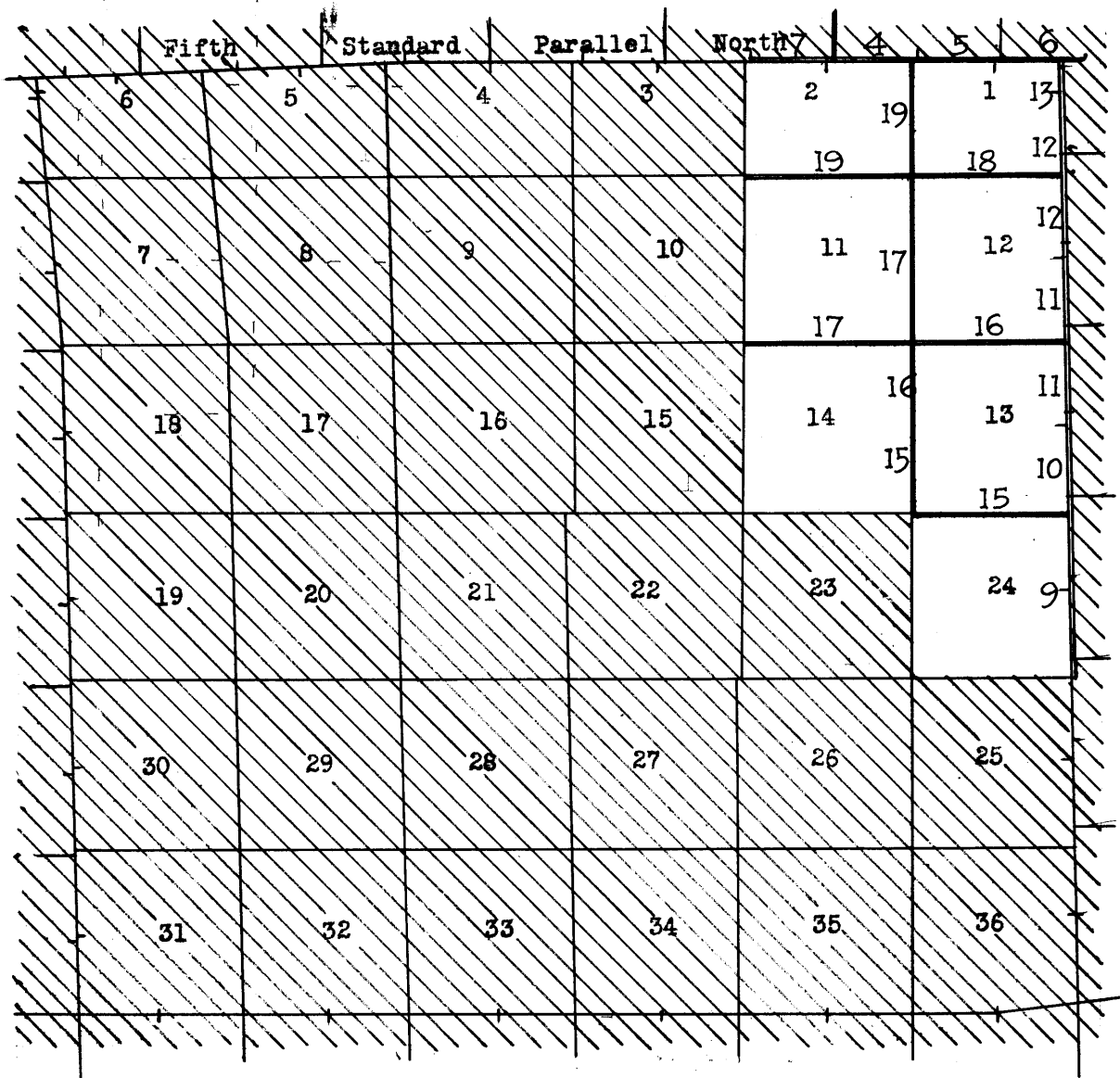
BOOK 3489





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Index Diagram

Township 20 North, Range 4 West,

BOOK 3489



-  Surveys executed under this Group.
-  Resurveys executed under this Group.
-  Accepted surveys.
-  Areas surveyed as per accepted plats on file.

BOOK 3489

Date Diagram

Township 20 North, Range 4 West

					2-18-20	2-19-20
6	5	4	3	2	2-18-20	1
				2-18-20	2-19-20	
7	8	9	10	11	2-18-20	12
				2-17-20	2-17-20	
18	17	16	15	14	2-17-20	13
					2-17-20	
19	20	21	22	23		24
30	29	28	27	26		25
31	32	33	34	35		36

On the above diagram:-

red lines indicate surveys, and
blue lines indicate resurveys,

all executed by Otis Ross, U. S. Surveyor,
on dates shown thereon,
and black lines indicate accepted surveys.

Survey commenced Feb. 10, 1920, and executed with a Young and Sons mountain transit No. 8501; the instrument is equipped with a full vertical circle and the Smith solar attachment; unless otherwise specified all azimuth determinations are accomplished with the solar attachment.

Feb. 14, 1920: I examine the adjustment of the instrument and correct all errors; then to test the solar apparatus by comparing its indications from observations made during a.m. and p.m. hours with a meridian established by Polaris observation proceed as follows:

In camp near the S.E. cor. of sec. 13, T. 20 N., R. 4 W., Gila and Salt River Base and Meridian, Arizona, in latitude, $35^{\circ}07'N.$; and longitude $112^{\circ}37\frac{1}{2}'W.$; at 9h. 52.8 m.p.m., l.m.t., I observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground, 5 chs. N.

Azimuth of Polaris at western elongation = $1^{\circ}21'55."$

Feb. 15, 1920: I lay off the azimuth of Polaris $1^{\circ}22'$ to the east; and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 5 chs. N.

At 7h. 30m., a.m., l.m.t., I set off $35^{\circ}07'N.$, on the lat. arc; $12^{\circ}55'S.$ on the decl. arc. and determine a meridian with the solar, which I find to agree with the true meridian.

At app. noon, with the lat. arc unchanged, I observe the sun on the meridian; the resulting reading of the decl. arc is $12^{\circ}53\frac{1}{2}'S.$, which agrees with the computed declination of the sun.

At 4h. 30m., p.m., l.m.t., with the lat. arc unchanged, I set off $12^{\circ}47\frac{1}{2}'S.$ on the decl. arc; and determine a meridian with the solar, which I find to agree with the true meridian.

As all of the solar observations during the usual hours of solar work come within $1'30"$ of the true meridian, I conclude that the adjustments of the instrument are satisfactory.

Unless otherwise specified all measurements are made with a Lufkin steel tape 5 chains in length, compared with a Chesterman standard steel tape and found correct. The measurements are made on the slope, the vertical angle determined, and the slope measurements properly reduced to true horizontal distances.

Resurvey of Fifth Std. Par. N. thru. part of Range 3 West.
Chains.

The Fifth Standard Parallel North, thru. Range 3 West, was surveyed in 1872 by O.H. Case, U.S.D.S. The line was resurveyed in 1883 by J.T. Smith, U.S.D.S., who, being unable to find any of the original standard cors. established by Case, resurveyed the parallel thru. Ranges 1, 2, 3, 4 and 5 W. at about 35 chs. S. of the reported position of the Case survey.

Retracement for Resurvey.

From the standard $\frac{1}{4}$ sec. cor. of sec. 32, hereinafter described,

12.27 West, on a random line on S. bdy. of sec. 32. Fall 7 lks. S. of the closing cor. of Ts. 20 N., Rs. 3 and 4 W., hereinafter described.

True bearing back to $\frac{1}{4}$ sec. cor. is therefore S. 89° 41' E. Continue line and measurement.

40.31 Fall 22 lks. S. of the standard cor. of secs. 31 and 32, hereinafter described.

True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 32 are therefore S. 89° 41' E., 40.31 chs.

Thence,

40.51 West, on a random line, on S. bdy. of sec. 31. Fall 53 lks. S. of the standard $\frac{1}{4}$ sec. cor. of sec. 31, hereinafter described.

True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 31 are therefore S. 89° 15' E., 40.51 chs.

Thence,

40.04 West, on a random line, on S. bdy. of sec. 31. Fall 45 lks. N. of standard cor. of Ts. 21 N., Rs. 3 and 4 W., hereinafter described.

True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 31 are therefore N. 89° 21' E., 40.04 chs.

RESURVEY.

The standard cor. of Ts. 21 N., Rs. 3 and 4 W., reestablished by J.T. Smith, U.S.D.S. in 1883 is a sandstone 20x12x12 ins. above ground, firmly set, marked with 6 notches on each of N., E. and W. edges, and witnessed by a mound of stone, N. of cor., and a cedar tree, 12 ins. in diam., N. $\frac{1}{2}$ ° W., 37 lks. dist., properly marked. Smith's record of the reestablishment of this cor. does not state that any bearing trees were established by him, but in the notes of resurvey of the Parallel thru. R. 4 W., by Fred Mensch, U.S.S., and Wm. R. Johnston, U.S.T. in 1916, two bearing trees, properly marked, are described as accessories to this cor., one N. $\frac{1}{4}$ ° W., 37 lks. dist., and one N. 56 $\frac{1}{2}$ ° E., 48 lks. dist. There is no trace of the NE. bearing tree.

Alongside old stone, set an iron post 3 ft. long, 3 ins. in diam., 12 ins. in the ground to bed rock, supported in a mound, for standard cor. of Ts. 21 N., Rs. 3 and 4 W., marked on brass cap,

S C
T21N
R4W | R3W
S36 | S31

1920

Thence, N. 89° 21' E., on a true line on S. bdy. of sec. 31 (W. $\frac{1}{2}$). Over mountainous land, thru. scattering timber and undergrowth.

13.00 Descend 93 ft., over SE. slope. Gulch, course SW. Asc. 127 ft., over NW. slope, to

Resurvey of Fifth Std. Par. North, thru part of Range 3 West. 5

Chains.

22.36 Leave scattering, and enter dense timber and undergrowth. Ascend 50 ft., over gradual SW. slope, to

37.35 Set an iron post, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 1 and 2, marked on brass cap,

T21N R3 W
S 31
S 2 3 1
T20N R4 W
C C
1920

from which,
A cedar, 8 ins. in diam., brs. S. 69° E., 92 lks.
dist., marked T20N R4 W S1 C C BT.
A cedar, 8 ins. in diam., brs. S. 60 1/2° W., 5 lks.
dist., marked T20N R4 W S2 C C B T.

40.04 Descend 10 ft. over SE. slope, to
Intersect the standard 1/4 sec. cor. of sec. 31, which is a volcanic stone, 14x10x8 ins. above ground, firmly set, marked S C 1/4 on N. face, and witnessed by a mound of stone, N. of cor., and two bearing trees as follows:

A juniper, 14 ins. in diam., N. 04° E., 45 lks.
dist., marked S C 1/4 S B T.
A juniper, 8 ins. in diam., N. 20 1/2° W., 52 lks.
dist., marked S C 1/4 S B T.

These trees are evidently the ones described in the record although differing in bearing.
Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, supported in a mound of stone, for standard 1/4 sec. cor. of sec. 31, marked on brass cap,

S C
1/4 S 31
1920

Thence,
S. 89° 15' E., on a true line, on S. bdy. of sec. 31 (E. 1/4).
Over mountainous land, thru. dense timber and undergrowth.
Descend 40 ft., over E. slope.

7.17 Gulch, course S. Ascend 60 ft., over SW. slope, to
37.31 Set an iron post, 3 ft. long, 1 in. in diam., 22 ins. in the ground to bed rock, supported in a mound of stone, for 1/4 sec. cor. of sec. 1, marked on brass cap,

1/4 S 1
1920

from which,
A cedar, 7 ins. in diam., brs. S. 23° W., 12 lks.
dist., marked 1/4 S 1 BT.
A cedar, 12 ins. in diam., brs. S. 52 1/4° W., 62 lks.
dist., marked 1/4 S 1 BT.

40.51 Ascend 10 ft. over SW. slope, to
Intersect the standard cor. of secs. 31 and 32, which is a granite stone, 12x8x5 ins. above ground, firmly set, marked S C on N. face, 1 notch on W. edge, and 5 notches on E. edge, and witnessed by a mound of stone, N. of cor., and two bearing trees as follows:

A forked cedar, 30 ins. in diam., N. 5 1/2° E., 61 lks.
dist., marked T21N R3W S32 SC BT.
A juniper 16 ins. in diam., N. 27° W., 200 lks.
dist., marked T21N R3W S31 S C B T.

Alongside old stone, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for standard cor. of secs. 31 and 32, marked on brass cap,

S C
T21N R3 W
S31 S32
1920

6 Resurvey of Fifth Std. Par. North, thru part of Range 3 West.

chains.

Land, mountainous.
Soil, rocky, limestone formation, 4th rate.
Timber, cedar and pinyon, scattering and dense as noted.
Undergrowth, oak brush and greasewood, scattering and dense as noted.
Poor grass.

23.35 S. 89° 41' E., on a true line on S. bdy. of sec. 32 (W. 1/2).
Over mountainous land, thru dense timber and undergrowth.
Ascend 40 ft., over gentle SW. slope.
28.04 Ridge, brs. SE. and NW. Descend 10 ft., over gentle E. slope, to
Intersect the closing cor. of Ts. 20 N., Rs. 3 and 4 W., which is a granite stone, 14x6x3 ins. above ground, firmly set, mkd. CC on S. face & 6 notches on each of E. W. & S. edges & witnessed by a mound of stone S. of cor. No trace of the record bearing tree SE. of cor. can be found.
Alongside old stone, set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for closing cor. of Ts. 20 N., Rs. 3 and 4 W., marked on brass cap,

T31N R 3W
S 32
S 1 S 6
R4 W R3 W
T20N
C C
1920

from which,
A cedar, 16 ins. in diam., brs. S. 73 1/2° E., 16 lks. dist., marked T20N R3W S6 CC BT.
A cedar, 8 ins. in diam., brs. S. 39° W., 14 lks. dist., marked T20N R4W S 1 CC BT.

40.31 Continue line and measurement.
Descend 180 ft. over E. slope, to
Intersect the standard 1/4 sec. cor. of sec. 32, which is a granite stone, 18x12x3 ins., above ground, firmly set, marked S C 1/4 on N. face, and witnessed by a cedar, 10 ins. in diam., N. 41° W., 17 lks. dist., marked S C 1/4 S B T. Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for standard 1/4 sec. cor. of sec. 32, marked on brass cap,

S C
S 32
1920

from which,
A cedar, 10 ins. in diam., brs. N. 3 1/2° E., 67 lks. dist., marked 1/4 S 32 S C B T."

Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense cedar and pinyon.
Undergrowth, dense oak brush and greasewood.
Poor grass.

Chains.

The Fifth Standard Parallel North, thru. Range 4 West, was surveyed in 1872 by O.H. Case, U.S.D.S. The parallel was resurveyed in 1883 by J.T. Smith, U.S.D.S., who, being unable to find any of the original standard corners established by Case, resurveyed the line thru. Rs. 1, 2, 3, 4 and 5 W. at about 35 chs. S. of the reported position of the Case survey. The lines as resurveyed by Smith was again resurveyed in 1916 by Fred Mensch, U.S.S., and William R. Johnston, U.S.T.

Retracement for Resurvey.

- From standard cor. of Ts. 21 N., Rs. 3 and 4 W., hereinbefore described,
 - N. 89° 57' W., on a random line on S. bdy. of sec. 36.
 - 2.87 Set temp. $\frac{1}{4}$ sec. cor. of sec. 2.
 - 40.59 Intersect the point for standard $\frac{1}{4}$ sec. cor. determined by measurement of 85 lks. S. 89° 57' E. from the witness corner to said corner.
 - 41.44 Intersect the witness cor. to the standard $\frac{1}{4}$ sec. cor. of sec. 36, hereinafter described.
- True course and distance of E. $\frac{1}{4}$ of S. bdy. of sec. 36 are therefore S. 89° 57' E., 40.59 chs.

RESURVEY:

- The witness cor. to the standard $\frac{1}{4}$ sec. cor. of sec. 36 is an iron post, 1 in. in diam., projecting 12 ins. above ground, properly marked on brass cap, and witnessed by a mound of stone N. of cor. No bearing trees.
- Thence,
 - 0.85 S. 89° 57' E., on a true line. True point for standard $\frac{1}{4}$ sec. cor. of sec. 36 in bed of Partridge Creek.
 - Thence,
 - 0.45 S. 89° 57' E. on a true line, on S. bdy. of sec. 36 (E. $\frac{1}{2}$). Over mountainous land, in the Canyon of Partridge Creek, crossing or re-crossing said stream, thru. scattering timber and undergrowth.
 - 0.45 Partridge Creek, with stream of muddy water, 60 lks. wide, 1 ft. deep, course NW. Ascend 55 ft., over SW. slope of spur.
 - 8.15 Point of spur, slopes S. Descend 35 ft., over SE. slope of spur.
 - 13.09 Partridge Creek, course SW. Asc. 50 ft., over N. slope, to
 - 31.39 Partridge Creek, course NW. Ascend 120 ft., over cliffs, to
 - 37.72 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 2 only, marked on brass cap,

$\frac{1}{4}$ S 2
1920

- 40.39 Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor. Ascend 110 ft., over cliffs, facing SW.
 - 40.39 Rim of Partridge Creek Canyon, brs. SE. and NW. Ascend slightly to
 - 40.59 The standard cor. of Ts. 21 N., Rs. 3 and 4 W., hereinbefore described.
- Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering pinyon and cedar.
Undergrowth, scattering oak brush and greasewood.
Poor grass.

8 Resurvey of a portion of East bdy. of Township 20 North, Range 4 W.

Chains.	The east boundary of T.20 N., R.4 W., was surveyed by O.H. Case, U.S.D.S. in 1872, and in 1883, was resurveyed by J.T. Smith, U.S.D.S. In 1916 the south two miles were again resurveyed by Fred Mensch, U.S. Surveyor.
	<u>Retracement for Resurvey.</u>
	From the cor. of secs. 19 and 30, T.20 N., R.3 W., hereinafter described,
41.14	North, on a random line on W. bdy. of sec. 19. Fall 75 lks. E. of the $\frac{1}{4}$ sec. cor. of secs. 19 and 24, hereinafter described. True course and dist. of S. $\frac{1}{2}$ of W. bdy. of sec. 19 are therefore N.1°03' W., 41.15 chs. Thence,
40.00	North, on a random line on W. bdy. of sec. 19. Find no evidence of the cor. of secs. 13, 18, 19 and 24. Set temp. cor. of secs. 18 and 19. Continue line and measurement.
81.19	North, on a random line, on W. bdy. of sec. 18. Fall 217 lks. E. of the $\frac{1}{4}$ sec. cor. of secs. 13 and 18; hereinafter described. True course and dist. from $\frac{1}{4}$ sec. cor. of sec. 19 to this $\frac{1}{4}$ sec. cor. are therefore N.1° 32' W., 81.22 chs., which to maintain the original proportion for the cor. intervals, gives 40.61 chs. as the intervals. Thence,
40.30	North, on a random line, on W. bdy. of sec. 18. Fall 28 lks. E. of the cor. of secs. 7, 12, 13 and 18, hereinafter described. True course and dist. of N. $\frac{1}{2}$ of W. bdy. of sec. 18 are therefore N.0°24' W., 40.30 chs. Thence;
41.31	North, on a random line, on W. bdy. of sec. 7. Fall 90 lks. E. of the $\frac{1}{4}$ sec. cor. of secs. 7 and 12, hereinafter described. True course and dist. of S. $\frac{1}{2}$ of W. bdy. of sec. 7 are therefore N.1°15' W., 41.32 chs. Thence;
41.22	North, on a random line on W. bdy. of sec. 7. Fall 12 lks. E. of the cor. of secs. 1, 6, 7 and 12, hereinafter described. True course and dist. of N. $\frac{1}{2}$ of W. bdy. of sec. 7 are therefore N.0° 10' W., 41.22 chs. Thence,
40.87	North, on a random line on W. bdy. of sec. 6. Fall 49 lks. W. of the $\frac{1}{4}$ sec. cor. of secs. 1 and 6, hereinafter described. True course and dist. of S. $\frac{1}{2}$ of W. bdy. of sec. 6 are therefore N.0° 41' E., 40.87 chs. Thence,
1.00	North, on a random line, on W. bdy. of sec. 6. Fall 1 lks. E. of the closing cor. of Ts. 20 N., Rs. 3 and 4 W., hereinbefore described. True course and dist. of W. bdy. of sec. 6 from $\frac{1}{4}$ sec. cor. to this closing cor. are therefore N.0°34' W., 1.00 ch.
	<u>RESURVEY.</u>
	The closing cor. of secs. 24 and 25, T.20 N., R.4 W., established by Fred Mensch, U.S.S., in 1916 is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by two bearing trees properly marked, one S.44°W., 88 lks. dist., and one N.13°W., 27 lks. dist. Thence,
2.00	N.0° 34' E., on a true line on E. bdy. of sec. 24. Over mountainous land, thru. dense timber and undergrowth. Ascend 10 ft., over SW. slope. Spur, slopes W. Desc. 33 ft., over NW. slope, to

Resurvey of a portion of East bdy. of Township 20 North Range 4 W. 9

Chains.

5.83 Intersect the cor. of secs. 19 and 30, reestablished by Fred Mensch, U.S.S., in 1916, which is an iron post, 3 ins. in diam., projecting 8 ins. above ground, firmly set, properly marked on brass cap, and witnessed by two bearing trees, properly marked, one N. 78° E., 43 lks. dist., and one S. 30½° E., 49 lks. dist.

Thence, N. 1° 03' W., on a true line, continuing measurement of E. bdy. of sec. 24.

Over mountainous land, thru. dense timber and undergrowth. Descend slightly over NW. slope. 6.03 Gulch, course SW. Asc. 180 ft., over SW. slope. 10.04 Old road, brs. NE. and SW. 21.83 Ridge, brs. E and W. Desc. 30 ft., over NE. slope. 24.41 Head of gulch, course E. Ascend 50 ft., over SE. slope. 35.50 Spur, slopes NE. Descend 15 ft., over NW. slope, to 40.01 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, supported in a mound of stone, for ¼ sec. cor. of sec. 24 only, marked on brass cap,

¼ S 24 |
1920

from which, A pinyon, 7 ins. in diam., brs. S. 2° W., 32 lks. dist., marked ¼ S 24 BT. A pinyon, 8 ins. in diam., brs. N. 4° W., 106 lks. dist., marked ¼ S 24 BT.

46.98 Descend 05 ft., over NW. slope, to Intersect the ¼ sec. cor. of secs. 19 and 24, which is a limestone, 18x8x2 ins., marked ¼ on W. face, and firmly set in a mound of stone.

No accessories. Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bed rock, supported in a mound of stone, for ¼ sec. cor. of sec. 19 only, marked on brass cap,

¼ S 19 |
1920

from which, A pinyon, 6 ins. in diam., brs. N. 54½° E., 44 lks. dist., marked ¼ S 19 BT. A pinyon, 8 ins. in diam., brs. S. 4° E., 153 lks. dist., marked ¼ S 19 BT.

Thence, N. 1° 32' W., on a true line, continuing measurement of E. bdy. of sec. 24.

Over mountainous land, thru. dense timber and undergrowth. Descend 90 ft., over NW. slope, to 80.02 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 13 and 24 only, marked on brass cap,

T20N |
S13 | T20N
S24 | R3W
R4W | S19
1920

from which, A cedar, 8 ins. in diam., brs. S. 30¼° W., 119 lks. dist., marked T 20N R4W S24 BT. A cedar, 10 ins. in diam., brs. N. 70½° W., 481 lks. dist., marked T20N R4W S13 BT.

Land, mountainous.

10 Resurvey of a portion of E. bdy. of Township 20 North, Range 4 West.

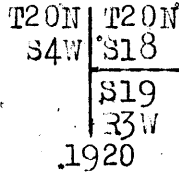
Chains.

Soil, rocky, 4th rate.
Timber, dense pinyon and cedar.
Undergrowth, dense oak brush and greasewood.
Poor grass.

N. 1° 32' W., on a true line, on E. bdy. of sec. 13.
Over mountainous land, thru. dense timber and undergrowth.
Descend 10 ft., over NW. slope.

3.40 Wash, 10 lks. wide, course W. Ascend 15 ft., over SW. slope, to

7.57 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 18 and 19, only, marked on brass cap,



from which,

A pine, 8 ins. in diam., brs. N. 50 1/2° E., 297 lks. dist., marked T20N R3W S18 BT.

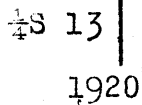
A cedar, 18 ins. in diam., brs. S. 55 1/2° E., 420 lks. dist., marked T20N R3W S19 BT.

Ascend 225 ft., over SW. slope.

25.81 S. rim of W. end of flat topped spur, sloping W. Thence across top of spur.

30.80 N. rim of same spur. Leave flat top of spur. Descend 85 ft., over NW. slope, to

40.01 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for 1/4 sec. cor. of sec. 13 only, marked on brass cap,



from which,

A cedar, 12 ins. in diam., brs. S. 31 1/2° W., 34 lks. dist., marked 1/4 S 13 BT.

A cedar, 10 ins. in diam., brs. N. 57° W., 11 lks. dist., marked 1/4 S 13 BT.

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Descend 50 ft., over NW. slope.

44.02 Head of gulch, course SW. Ascend 35 ft., over SW. slope, to

47.50 Spur, slopes SW. Descend slightly over NW. slope, to

48.18 Intersect the 1/4 sec. cor. of secs. 13 and 18, which is a limestone 14x12x5 ins. above ground, firmly set, marked 1/4 on W. face. No accessories.

Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, to bed rock, supported in a mound of stone, for 1/4 sec. cor. of sec. 18 only, marked on brass cap,



.1920

from which,

A pine, 10 ins. in diam., brs. N. 06 1/2° E., 57 lks. dist., marked 1/4 S 18 BT.

A pine, 8 ins. in diam., brs. S. 19 1/2° E., 90 lks. dist., marked 1/4 S 18 BT.

Thence, N. 0° 24' W., on a true line, continuing measurement of E. bdy. of sec. 13.

Over mountainous land, thru. dense timber and undergrowth. Descend 45 ft., over NW. slope, to

Resurvey of a portion of E. bdy. of Township 20 North Range 4 West. 11

Chains.
 54.94 S. rim of wide gulch, brs. NE. and SW. Thence across gulch, descending slightly to
 58.13 Wash, 21 lks. wide, course SW. from N. in bottom of gulch.
 Continue across gulch, Ascend 20 ft., to
 63.13 N. rim of gulch, brs. N. and SW. Leave gulch and ascend 50 ft. over SE. slope along W. side of same gulch, to
 75.13 Head of same gulch, course S. Ascend 25 ft., over E. slope, to
 80.01 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for cor. of secs. 12 and 13, marked on brass cap,

T20N	T20N
S12	R3W
S13	S18
R4W	

1920

from which,
 A pine, 6 ins. in diam., brs. S. 30° W., 23 lks. dist., mark T20N R4W S13 BT.
 A pine, 7 ins. in diam., brs. N. 33° W., 42 lks. dist., mark T20N R4W S12 BT.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, dense cedar and pinyon.
 Undergrowth, dense oak brush and greasewood.
 Poor grass.

8.17
8.47

N. 0° 24' W., on a true line, on E. bdy. of sec. 12.
 Over mountainous land, thru. dense timber and undergrowth.
 Ascend 30 ft., over S. slope.

Ridge, brs. E. and W. Descend slightly over NW. slope, to
 Intersect the original corner of secs. 7, 12, 13 and 18, which is a limestone, 16x10x6 ins. above ground, firmly set, marked with 2 notches on N. edge and 4 notches on S. edge, and witnessed by four bearing trees, as follows:

- A pine, 7 ins. in diam., N. 57° E., 26 lks. dist., marked T20N R3W S7 BT.
- A pine, 9 ins. in diam., S. 54° E., 39 lks. dist., marked T20N R3W S18 BT.
- A pinyon, 8 ins. in diam., S. 65° W., 22 lks. dist., marked T20N R4W S13 BT.
- A pinyon, 6 ins. in diam., N. 10° W., 28 lks. dist., marked T20N R4W S12 BT.

Alongside old stone, set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bed rock, supported in a mound of stone, for cor. of secs. 7 and 18 only, marked on brass cap,

T20N	T20N
R4W	S 7
S12	S18
	R3W

1920

Obliterate markings on SW. and NW. bearing trees.
 Thence,
 N. 1° 15' W., on a true line, continuing measurement of E. bdy. of sec. 12.
 Over mountainous land, thru. dense timber and undergrowth.
 Descend 110 ft., over NW. slope.

19.75
36.21
40.01

Gulch, course NW. Ascend 270 ft., over SW. slope.
 Spur, slopes W. Descend 75 ft., over NW. slope, to
 Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 12 only, marked on brass cap,

$\frac{1}{4}$ S12	
-------------------	--

1920

12 Resurvey of portion of E. bdy. of Township 20 North Range 4 West

Chains.

from which,

A pine, 12 ins. in diam., brs. S. 37 1/4° W., 107 lks.
dist., marked 1/2 S 12 BT.

A pine, 8 ins. in diam., brs. N. 37 1/4° W., 86 lks.
dist., marked 1/2 S 12 BT.

Descend 105 ft. over NW. slope.

44.75
49.79

Head of gulch, course W. Ascend 60 ft., over SW. slope, to
Intersect the 1/2 sec. cor. of secs. 7 and 12, which is a
limestone, 10x10x4 ins., and firmly set in a mound of
stone. No accessories.

Alongside old stone, set an iron post, 3 ft. long, 1 in.
in diam., on bed rock, supported in a mound of stone,
for 1/2 sec. cor. of sec. 7 only, marked on brass cap,

1/2 S 7

1920

from which,

A pine, 6 ins. in diam., brs. N. 80° E., 65 lks.
dist., marked 1/2 S 7 BT.

A pine, 6 ins. in diam., brs. S. 29 3/4° E., 17 lks.
dist., marked 1/2 S 7 BT.

Thence,

N. 0° 10' W., on a true line, continuing measurement of E. bdy.
of sec. 12.

Over mountainous land, thru. dense timber and undergrowth.
Ascend 50 ft., over SW. slope.

51.66
80.01

Ridge, brs. SE. and NW. Descend 480 ft., over NE. slope, to

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for cor. of secs. 1 and 12 only, marked on
brass cap,

T20N T20N
S 1 R3W
S 12 S 7
R4W

1920

from which,

A pine, 14 ins. in diam., brs. S. 30 1/4° W., 81 lks.
dist., marked T20N R4W S12 BT.

A pine, 10 ins. in diam., brs. N. 30° W., 80 lks.
dist., marked T20N R4W S1 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense cedar and pinyon.

Undergrowth, dense oak brush and greasewood.

Poor grass.

N. 0° 10' W., on a true line, on E. bdy. of sec. 1.

Over mountainous land, thru. scattering timber and under-
growth. Desc. 80 ft., over broken NE. slope, to

6.30

Top of cliff, 60 ft. high, brs. E. and W., facing N.

From foot of cliff, descend 45 ft. to

11.00

Intersect the cor. of secs. 1, 6, 7 and 12, which is a gran-
ite stone 10x12x10 ins. above ground, firmly set, marked
with 1 notch on N. edge and 5 notches on S. edge, and
witnessed by a mound of stone, 2 ft. base, 1 1/2 ft. high,
W. of cor.

Alongside old stone, set an iron post, 3 ft. long, 2 ins.
in diam., on surface rock, in a mound of stone, for cor.
of secs. 6 and 7 only, marked on brass cap,

T20N T20N
S 6
R4W S 7
S 1 R3W

1920

from which,

Resurvey of portion of E. bdy. of Township 20 North, Range 4 West. 13

Chains.	
	<p>A cedar, 14 ins. in diam., brs. S. $52\frac{1}{2}^{\circ}$ E., 78 lks. dist., marked T20N R3W S7 BT.</p> <p>Move old mound of stone from W. to E. of cor. This cor. is on top of cliff, bearing E. and W., facing N.</p> <p>Thence, N. $0^{\circ} 41'$ E., on a true line, continuing measurement of E. bdy. of sec. 1.</p> <p>Over mountainous land, thru. scattering timber and undergrowth.</p> <p>Descend over perpendicular cliff, 60 ft. high, bearing E. and W.</p>
11.20	Partridge Creek, with stream of muddy water, 30 lks. wide, 1 ft. deep, course W. Thence over nearly level bottom of Partridge Creek Canyon, brs. E. and W.
19.92	Old corral brs. E. 00 lks. dist.
21.02	Stone fence cor., brs. E. 00 lks. dist., from which fence extends north.
21.92	Old shed on line.
22.32	N. edge of canyon bottom, brs. E. and W. Leave bottom of canyon. Ascend 175 ft., over steep S. slope.
34.19	Spur, slopes W. Leave scattering, and enter dense timber and undergrowth, brs. E. and W. Descend 40 ft., over NE. slope.
35.16	Wash, course SW. Asc. 75 ft., over SW. slope, to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 1 only, marked on brass cap,
	$\frac{1}{4}$ S 1 1920
	<p>from which,</p> <p>A pine, 7 ins. in diam., brs. S. $31\frac{1}{2}^{\circ}$ W., 104 lks. dist., marked $\frac{1}{4}$ S 1 BT.</p> <p>A cedar, 6 ins. in diam., brs. N. 18° W., 57 lks. dist., marked $\frac{1}{4}$ S 1 BT.</p> <p>Ascend 100 ft. over SW. slope.</p>
51.00	Ridge, brs. SE. and NW. Thence on top of ridge, to
51.87	Intersect $\frac{1}{4}$ sec. cor. of secs. 1 and 6, which is a granite stone, 12x8x2 ins. above ground, marked $\frac{1}{4}$ on W. face, and witnessed by two bearing trees as follows:
	<p>A pinyon, 10 ins. in diam., S. 83° E., 04 lks. dist., marked $\frac{1}{4}$ S 3 T.</p> <p>A pinyon, 8 ins. in diam., West, 15 lks. dist., marked $\frac{1}{4}$ S 3 BT.</p>
	<p>Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor. of sec. 6 only, marked on brass cap,</p>
	$\frac{1}{4}$ S 6 1920
	<p>from which,</p> <p>A cedar, 20 ins. in diam., brs. N. 23° E., 55 lks. dist., marked $\frac{1}{4}$ S 6 BT.</p> <p>Change marking on old SE. bearing tree to read $\frac{1}{4}$ S 6 BT.</p> <p>Thence, N. $0^{\circ} 34'$ W., on a true line, continuing measurement of E. bdy. of sec. 1.</p> <p>Over mountainous land, thru. dense timber and undergrowth. Descend slightly over E. slope, to</p>
52.87	Intersect the closing corner of Ts. 20 N., Rs. 3 and 4 W., on Fifth Standard Parallel North, hereinbefore described.

14. Resurvey of a Portion of E. bdy. of T. 20 N., R. 4 W.

Chains.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pinyon, dense and scattering as noted.
Undergrowth, oak brush and greasewood, dense and scattering as noted.
Poor grass.

Survey of a Portion (Completion) of the
Subdivision Lines in T.20 N., R.4 W.

Chains

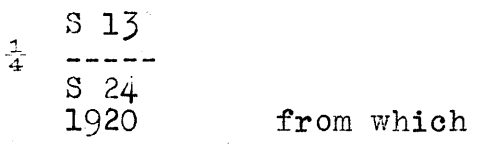
The survey of that portion of the subdivision lines of T.20 N., R.4 W., which adjoins the area surveyed as described in the following notes, was executed in 1916 by Fred Mensch, U.S.S. and no resurvey of such lines is of record.

40.00
73.62

From the original cor. of secs. 13, 14, 23 and 24, East, on a random line bet. secs. 13 and 24.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect E. bdy. of Tp., at the $\frac{1}{4}$ sec. cor. of secs. 13 and 24, hereinbefore described.

13.40
24.44
31.32
33.62

Thence
West, on a true line bet. secs. 13 and 24.
Over mountainous land, thru dense timber and undergrowth. Desc. 20 ft. over NW. slope.
Gulch, course N. Asc. 130 ft. over NE. slope.
Spur, slopes N. Desc. 80 ft. over W. slope.
Gulch, course N. Asc. 20 ft. over NE. slope to
Set an iron post, $\frac{3}{4}$ ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 13 and 24, marked on brass cap



A cedar, $\frac{14}{16}$ ins. in diam., bears S. $12\frac{1}{2}^{\circ}$ E., 22 lks. dist. marked $\frac{1}{4}$ S 24 B T
A cedar, $\frac{3}{4}$ ins. in diam., bears N. $32\frac{1}{4}^{\circ}$ W., 39 lks. dist. marked $\frac{1}{4}$ S 13 B T

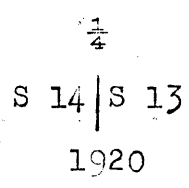
42.33
53.11
68.27
73.62

Asc. 85 ft. over NE. slope.
Point of spur, slopes N. Desc. 170 ft. over NW. slope.
Gulch, course N. Asc. 40 ft. over NE. slope.
Spur, slopes N. Desc. 45 over NW. slope to
Intersect the original cor. of secs. 13, 14, 23 and 24, which is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, witnessed by four properly marked bearing trees as follows:
A juniper, N. 53° E., 76 lks.
A juniper, S. 61° E., 51 lks.
A juniper, S. $25\frac{1}{4}^{\circ}$ W., 32 lks.
A pinyon, N. $30\frac{1}{2}^{\circ}$ W., 100 lks.

Land; mountainous.
Soil; rocky, limestone formation, 4th. rate.
Timber; dense cedar and pinyon.
Undergrowth; dense oak brush and greasewood.
Poor grass.

4.33
9.90
11.70
27.74
40.00

North, on a sectional guide meridian bet. secs. 13 and 14.
Over mountainous land, thru dense timber and undergrowth. Desc. 45 ft. over NW. slope.
Gulch, course W. Asc. 70 ft. over S. slope.
Spur, slopes NW. Desc. 25 ft. over NE. slope.
Gulch, course W. Asc. 200 ft. over SW. slope.
Spur, slopes W.. Leave dense and enter scattering timber and undergrowth. Desc. 195 ft. over N. slope to
Set an iron post, $\frac{3}{4}$ ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap



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

Survey of a Portion (Completion) of the
Subdivision Lines in T.20 N., R.4 W.

Chains Desc. 75 ft. over NE. slope.
46.90 Enter wash, 16 lks. wide, course N. from SE. Desc. gradually in wash.
51.10 Leave wash, course NW. from S. Thence across nearly level bottom of ravine, bears NW. and SE.
61.10 N. edge of bottom of ravine. Leave bottom of ravine. Asc. 210 ft. over SW. slope to
77.50 Top of bank of ravine; bears NW. and SE. Asc. slightly to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap

T20N R4W	
S 11	S 12
S 14	S 13
1920	

from which

A cedar, 12 ins. in diam., bears N.94°E., 134 lks. dist. marked T20 N R 4 W S 12 B T
A cedar, 18 ins. in diam., bears S.65°E., 16 lks. dist. marked T 20 N R 4 W S 13 B T
A cedar, 16 ins. in diam., bears S.18½°W., 54 lks. dist. marked T 20 N R 4 W S 14 B T
A pine, 8 ins. in diam., bears N.37°W., 35 lks. dist. marked T 20 N R 4 W S 11 B T

Land; mountainous.
Soil; rocky, 4th. rate.
Timber; cedar and pinyon, dense and scattering as noted.
Undergrowth; oak brush and greasewood, dense and scattering as noted.
Poor grass.

East, on a random line bet. secs. 12 and 13.
40.00 Set temp. ¼ sec. cor.
72.09 Fall 23 lks. S. of the ¼ sec. cor. of secs. 12 and 13 on E. bdy. of Tp., hereinbefore described.

Thence
S.89°49'W., on a true line bet. secs. 12 and 13.
Over mountainous land, thru dense timber and undergrowth.
Asc. 10 ft. over E. slope.
2.10 Desc. 12 ft. over NW. slope.
7.00 Asc. 41 ft. over NE. slope. to
16.00 Thence over N. slope to
21.33 Desc. 85 ft. over NW. slope to
32.09 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, supported in a mound of stone, for ¼ sec. cor. marked on brass cap

S 12

S 13

1920

from which

A pine, 10 ins. in diam., bears South, 12 lks. dist. marked ¼ S 13 B T
A pine, 10 ins. in diam., bears N.44°W., 44 lks. dist. marked ¼ S 12 B T

Desc. 25 ft. over W. slope.
34.93 Gulch, course NW. Asc. 52 ft. over NE. slope.
46.00 Sour, slopes NW. Desc. 85 ft. over NW. slope.
52.13 Gulch, course N. Asc. 30 ft. over NE. slope.
56.10 Desc. 32 ft. over NW. slope.
64.70 Wash, 6 lks. wide, course NW. Asc. slightly over NW. slope to
72.09 The cor. of secs. 11, 12, 13 and 14.
Land; mountainous. Soil; rocky, 4th. rate.
Timber; dense cedar and pinyon.
Undergrowth; dense oak brush and greasewood.
Poor grass.

Survey of a Portion (Completion) of the
Subdivision Lines of T.20 N., R.4 W.

Chains West, on a random line bet. secs. 11 and 14.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.16 Fall 14 lks. N. of the original cor. of secs. 10, 11, 14
 and 15, which is an iron post, 2 ins. in diam., project-
 ing 12 ins. above ground, firmly set, properly marked
 on brass cap, witnessed by four properly marked bearing
 trees as follows:
 A juniper, N. 31° E., 100 lks.
 A juniper, S. $24\frac{1}{2}^{\circ}$ E., 190 lks.
 A juniper, S. 61° W., 223 lks.
 A juniper, N. $8\frac{1}{2}^{\circ}$ W., 129 lks.

Thence
 N. $89^{\circ} 54'$ E., on a true line bet. secs. 11 and 14.
 Over level land, thru scattering timber and undergrowth.
 40.08 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
 the ground to bed rock, supported in a mound of stone,
 for $\frac{1}{4}$ sec. cor., marked on brass cap

S 11
 $\frac{1}{4}$ ----
 S 14
 1920 from which

A cedar, 14 ins. in diam., bears S. $80\frac{1}{2}^{\circ}$ W., 45 lks. dist.
 marked $\frac{1}{4}$ S 14 B T
 A cedar, 20 ins. in diam., bears N. $5\frac{3}{4}^{\circ}$ W., 215 lks. dist.
 marked $\frac{1}{4}$ S 11 B T

55.00 E. edge of valley, bears SE. and NW. Leave level and
 enter mountainous land. Asc. 90 ft. over SW. slope to
 68.92 Gulch, course SW. Asc. 130 ft. over SW. slope to
 78.00 Rim bears NW. and SE. Asc. slightly over W. slope to
 80.16 The cor. of secs. 11, 12, 13 and 14.

Land; level and mountainous.
 Soil; in level land, sandy loam, 2nd. rate; in the moun-
 tainous land, rocky, 4th. rate.
 Timber; scattering pinyon and cedar.
 Undergrowth; scattering oak brush and greasewood.
 Good grass in W. 55 chs., poor grass in E. 25 chs.

North, on sectional guide meridian, bet. secs. 11 and 12.
 Over mountainous land, thru dense timber and undergrowth.
 Desc. 15 ft. over NW. slope to
 3.50 Sand wash, course NW. Desc. 65 ft. over W. slope to
 18.20 Sand wash, course W. Asc. 70 ft. over SW. slope to
 33.50 Spur, slopes W. Desc. 67 ft. over N. slope to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S 11 | S 12
 1920 from which

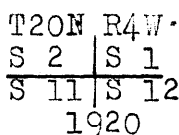
A cedar, 20 ins. in diam., bears N. 64° E., 29 lks. dist.
 marked $\frac{1}{4}$ S 12 B T
 A cedar, 10 ins. in diam., bears S. $62\frac{1}{2}^{\circ}$ W., 24 lks. dist.
 marked $\frac{1}{4}$ S 11 B T

Desc. 6 ft. over N. slope to
 41.20 Sand wash, course W. Asc. slightly over SW. slope to
 46.30 Sand wash, course SW. Asc. 75 ft. over SE. slope.
 54.93 Spur, slopes W. Desc. 220 ft. over NW. slope to
 73.00 S. rim of Partridge Creek Canyon, bears NW. and SE.
 Leave dense timber. Continue thru scattering undergrowth.
 Desc. 220 ft. over steep NE. slope to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins.
 in the ground, for cor. of secs. 1, 2, 11 and 12, marked

Survey of a Portion (Completion) of the
Subdivision Lines in T.20 N., R.4 W.

Chains

on brass cap



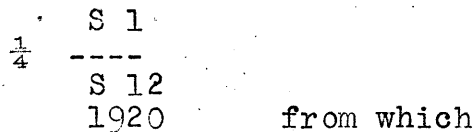
Raise a mound of stone,
2 ft. base, 1½ ft. high W. of cor.

Land; mountainous.
Soil; rocky, 4th. rate.
Timber; dense pinyon and cedar.
Undergrowth; dense oak brush and greasewood.
Poor grass.

40.00 N.89°49'E., on a random line bet. secs. 1 and 12.
70.89 Set temp. ¼ sec. cor.
Fall 6 lks. N. of the northeast cor. of secs. 1 and
12 on E. bdy. of Tp., hereinbefore described.

Thence
S.89°52'W., on a true line bet. secs. 1 and 12.
Over mountainous land, along S. side of Partridge Creek
Canyon, course W., thru dense timber and undergrowth.
Asc. 60 ft. over NE. slope.

6.12 Spur, slopes N. Desc. 45 ft. over NW. slope.
20.70 Sand wash, course NW. Asc. 18 ft. over gentle NE. slope to
30.89 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in
the ground to bed rock, supported in a mound of stone,
for ¼ sec. cor., marked on brass cap



A pine, 9 ins. in diam., bears N.74°E., 24 lks. dist.
marked ¼ S 1 B T
A pine, 12 ins. in diam., bears S.71°W., 49 lks. dist.
marked ¼ S 12 B T

36.30 Asc. 25 ft. over NE. slope to
41.90 Spur, slopes N. Desc. 73 ft. over NW. slope to
50.90 Wash, course NW. Desc. 130 ft. over steep N. slope to
53.94 Gulch, course NE. Leave timber, continue thru scattering
66.27 undergrowth. Asc. 60 ft. over NE. slope.
67.27 Spur, slopes N. Desc. 150 ft. over N. slope.
70.89 Enter Partridge Creek, with stream of muddy water, 60 lks.
wide, 1 ft. deep, in bend from NE. to NW.
Leave Partridge Creek, course NW. Asc. 30 ft. over NE. slope
to
The cor. of secs. 1, 2, 11 and 12.

Land; mountainous.
Soil; rocky, 4th. rate.
Timber; dense pinyon and cedar in E. 51 chs. only, none
elsewhere.
Undergrowth; oak brush and greasewood, dense and scatter-
ing as noted.
Poor grass.

40.00 S.89°54'W., on a random line bet. secs. 2 and 11.
80.28 Set temp. ¼ sec. cor.
Fall 5 lks. N. of the original cor. of secs. 2, 3, 10
and 11, which is an iron post, 2 ins. in diam., project-
ing 12 ins. above ground, firmly set, properly marked
on brass cap and witnessed by a mound of stone W. of
cor. and two properly marked bearing trees as follows:
A juniper, S.54½°W., 235 lks. dist.
A juniper, N.68½°W., 224 lks. dist.

Survey of a Portion (Completion) of the
Subdivision Lines in T.20 N., R.4 W.

Chains	Thence N. 89° 52' E., on a true line bet. secs. 2 and 11. Over mountainous land, thru scattering timber and dense undergrowth. Desc. 165 ft. over SE. slope into canyon. Wash, 18 lks. wide, course NE. in bottom of canyon. Asc. 30 ft. over NW. slope.
20.40	
22.36	Point of sour, slopes N. Desc. 30 ft. over NE. slope.
29.35	Wash, in gulch, course N. Asc. 60 ft. over NW. slope to
37.50	E. rim of canyon bears NE. and SW. Leave mountainous and enter rolling land. Thence along N. slope with little change in elevation.
40.14	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
	S 2 $\frac{1}{4}$ ---- S 11 1920 from which
	A cedar, 9 ins. in diam., bears N. 79° E., 46 lks. dist. marked $\frac{1}{4}$ S 2 B T
	A cedar, 9 ins. in diam., bears S. 86 $\frac{1}{2}$ ° E., 79 lks. dist. marked $\frac{1}{4}$ S 11 B T
	Continue over rolling N. slope. Desc. 20 ft. to
59.37	Wash, course N.
65.34	Leave timber, bears N. and S. Thence thru scattering undergrowth.
75.33	S. rim of Partridge Creek Canyon, bears NW. and SE. Leave rolling and enter mountainous land. Desc. 46 ft. over NE. slope to
80.28	The cor. of secs. 1, 2, 11 and 12.
	Land; mountainous and rolling. Soil; rocky, 4th. rate. Timber; scattering pinyon and cedar in W. 65 chs., none elsewhere. Undergrowth; oak brush and greasewood, dense and scatter- ing as noted. Poor grass.
	North, on sectional guide meridian bet. secs. 1 and 2. Over mountainous land, thru dense undergrowth. Desc. 30 ft. over NE. slope into canyon.
.88	Partridge Creek with stream of muddy water, 60 lks. wide, 1 ft. deep, course W. for about 3 chs. thence NW. Asc. 100 ft. over S. slope.
5.00	Enter scattering timber, bears E. and W.
9.90	Spur, slopes SW. Desc. 14 ft. over NW. slope.
17.97	Gulch, course SW. Asc. 154 ft. over S. slope.
34.71	Enter dense timber, bears E. and W.
38.41	Spur, slopes W. Desc. 10 ft. over N. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4}$ S 2 S 1 1920
	from which
	A cedar, 8 ins. in diam., bears N. 69° E., 92 lks. dist. marked $\frac{1}{8}$ S 1 B T
	A cedar, 8 ins. in diam., bears S. 60 $\frac{1}{2}$ ° W., 5 lks. dist. marked $\frac{1}{4}$ S 2 B T
	Desc. 40 ft. over N. slope.
44.66	Wash, course W. Asc. 96 ft. over S. slope to
53.79	Intersect the Fifth Standard Parallel North, 2.69 chs. S. 89° 21' W., of the standard $\frac{1}{4}$ sec. cor.

Survey of a Portion (Completion) of the
Subdivision Lines in T.20 N., R.4 W.

of sec. 31, T.21 N., R.3 W. Set 2-in. iron post for closing cor. as hereinbefore described.

Land; mountainous.
Soil; rocky, 4th. rate.
Timber; pinyon and cedar, scattering and dense as noted.
Undergrowth; dense oak brush and greasewood.
Poor grass.

The continued satisfactory adjustment of the solar apparatus during the survey of this township is indicated from field tests as described in Book "D".

Boundaries of the Portion of T.20 N.,
R.4 W., surveyed under Group 104.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Distance.	Latitudes.		Departures.	
			N.	S.	E.	W.
East bdy.	N.0°34'E.	5.83	5.83		.06	
	N.1°03'W.	41.15	41.14			.75
	N.1°32'W.	81.22	81.19			2.17
	N.0°24'W.	40.30	40.30			.28
	N.1°15'W.	41.32	41.31			.90
	N.0°10'W.	41.22	41.22			.12
	N.0°41'E.	40.87	40.87		.49	
	N.0°34'W.	1.00	1:00			.01
North bdy. (5th. Std. Par. N.)	N.89°41'W.	28.04	.15			28.04
	N.89°15'W.	40.51	.53			40.51
	S.89°21'W.	40.04		.45		40.04
	N.89°57'W.	43.10	.04			43.10
Subdivisional bdy.	S.0°01'E.	213.39		213.39	0.06	
	N.89°55'E.	79.98	.12		79.98	
	South	80.00		80.00		
	East	75.33			75.33	
Convergency						.08
Totals			293.70	293.84	155.92	155.00
				293.70		155.92
Error in latitude				.14		
Error in departure						.08

GENERAL DESCRIPTION

The portion of this township surveyed as described in the foregoing notes is mountainous, with the exception of a considerable area in secs. 11 and 14 which is level and rolling. A dense growth of pinyon and cedar timber and undergrowth of oak brush and greasewood is prevalent in all sections. The soil is a rocky limestone formation, in the mountainous portion, and in the level and rolling portion is a sandy loam; 2nd. rate.

The land drains into Partridge Creek which traverses secs. 1 and 2 and flows thru a canyon with precipitous sides, and at the time of this survey carried quite a stream of water.

A scant growth of grass affords indifferent grazing. There is no evidence of mineral and there are no settlers.

4-680

FIELD ASSISTANTS.
to Otis Ross, U. S. Surveyor

NAMES.	CAPACITY.
See Book "A"	

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Otis Ross, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 104, Arizona bearing date of the 15th day of October, 1919, 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, ^{re-} surveyed all those parts or portions of the Fifth Standard Parallel North through Ranges 3 and 4 West, and of the East boundary of Township 20 North, Range 4 West, and surveyed all those parts or portions of the Subdivision lines of

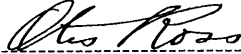
Township 20 North, Range 4 West

of the Gila and Salt River

Base and Meridian, in the State of Arizona, which are represented in and by diagram on page 2 hereof the foregoing field notes, as having been executed by me, and under my direction; and that all the corners of resurvey and 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 Group 104, Arizona,

and in the specific manner described in the field notes, and that the foregoing are the original field notes of resurvey and such survey.

Place Jensen, Alaska
Date Nov 29, 1921



U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. December 10, 1921.

The foregoing field notes of the ^{re-}survey of the Fifth Standard Parallel North through part of Ranges 3 and 4 West, and of part of the East boundary of Township 20 North, Range 4 West, and of the survey of part (completion) of the Subdivision lines of Township 20 North, Range 4 West, of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Otis Ross, U. S. Surveyor,

under his special instructions dated October 15, 1919 for Group 104, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.



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.