

3490

DEC-3 1921

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C. H. ...

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Book "D"
BOOK 3490

FIELD NOTES

OF THE RESURVEY OF THE

Fifth Standard Parallel North through part of Range 5 West,

AND OF THE SURVEY OF

part (completion) of the Subdivision lines of

Township 20 North, Range 5 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 26, 1920

Resurvey and Survey completed March 4, 1920

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INDEX DIAGRAM.

Township _____, Range _____

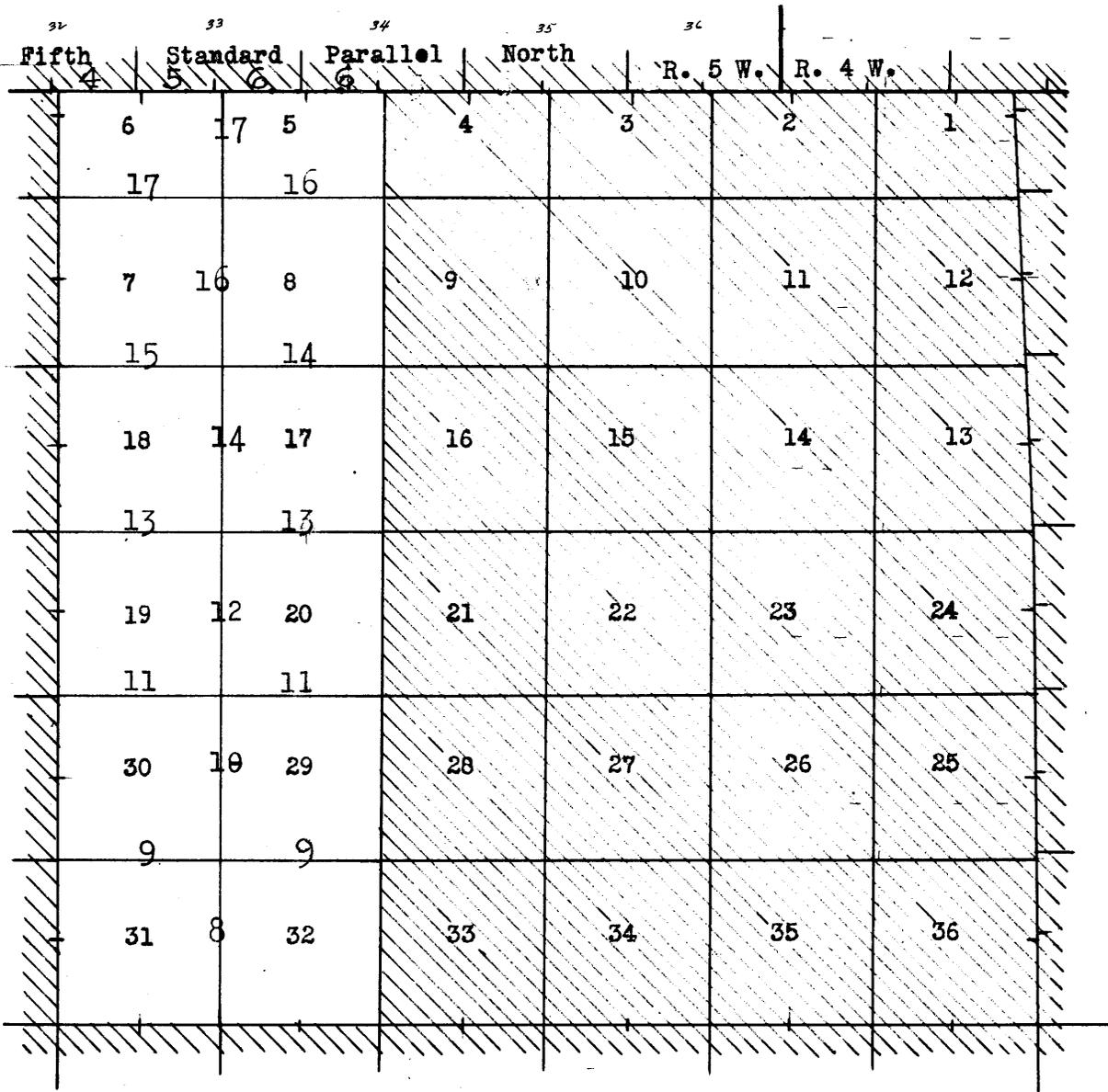
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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Index Diagram

Township 20 North, Range 5 West,

BOOK 3490



- Lines surveyed under this Group.
- Lines resurveyed under this Group.
- Accepted surveys.
- Areas surveyed as per accepted plats of file.

BOOK 3490

Date Diagram

Township 20 North, Range 5 West

3-4-20 6	3-4-20 5	4	3	2	1
3-3-20 7	3-3-20 8	9	10	11	12
3-3-20 18	3-2-20 17	16	15	14	13
2-28-20 19	3-1-20 20	21	22	23	24
2-28-20 30	2-27-20 29	28	27	26	25
2-26-20 31	2-27-20 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. 20, 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. 25, 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 $\frac{1}{4}$ sec. cor. of secs. 20 and 21, T. 20 N., R. 5 W., Gila and Salt River Base and Meridian, Arizona, in latitude $35^{\circ}06\frac{1}{2}'$ N.; and longitude, $112^{\circ}48'$ W., at 9h. 9.4m. 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. 26, 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 8h. 0m., a.m., l.m.t., I set off $35^{\circ}00\frac{1}{2}'$ N. on the lat. arc; $9^{\circ}00'$ 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 $8^{\circ}57'$ S., which agrees with the computed declination of the sun.

At 4h. 0m. p.m., l.m.t., with the lat. arc unchanged, I set off $8^{\circ}52'$ 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. Parallel North thru part of Range 5 West.
Chains.

The Fifth Standard Parallel North, thru Range 5 West, was surveyed by O.H. Case, U.S.D.S., in 1872. The line 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 parallel thru Rs. 1, 2, 3, 4 and 5 W., at about 35 chs. S. of the reported position of the Case survey.

That part of the Parallel in R. 5 W., south of the E. $\frac{1}{2}$ of sec. 34, and S. of secs. 35 and 36 was again resurveyed in 1916, by Wm. R. Johnston, U.S. Transitman.

Retracement for Resurvey.

From the standard $\frac{1}{4}$ sec. cor. of sec. 34, hereinafter described,

- West, on a random line on S. bdy. of sec. 34.
40.04 Fall 42 lks. N. of the standard cor. of secs. 33 and 34, hereinafter described.
True course and distance of the W. $\frac{1}{2}$ of the S. bdy. of sec. 34 are therefore N. 89° 24' E., 40.04 chs.

Thence,

- West, on a random line, on S. bdy. of sec. 33.
40.87 Fall 75 lks. S. of the standard $\frac{1}{4}$ sec. cor. of sec. 33, hereinafter described.
True course and distance of the E. $\frac{1}{2}$ of the S. bdy. of sec. 33 are therefore S. 83° 57' E., 40.83 chs.

Thence,

- West, on a random line, on S. bdy. of sec. 33.
40.36 Fall 8 lks. N. of the standard cor. of secs. 32 and 33, hereinafter described.
True course and distance of the W. $\frac{1}{2}$ of the S. bdy. of sec. 33 are therefore N. 89° 53' E., 40.36 chs.

Thence,

- West, on a random line, on S. bdy. of sec. 32.
37.71 A point 13 lks. N. of the original closing cor. of Ts. 20 N., Rs. 5 and 6 W., hereinafter described.
True course of line back to standard cor. of secs. 32 and 33, is therefore N. 89° 48' E.

Continue line and measurement.

- 39.96 Fall 14 lks. N. of the standard $\frac{1}{4}$ sec. cor. of sec. 32, hereinafter described.
True course and dist. of the E. $\frac{1}{2}$ of S. bdy. of sec. 32 are therefore N. 89° 48' E., 39.96 chs.

RESURVEY.

The standard $\frac{1}{4}$ sec. cor. of sec. 32 is a limestone 14x12x2 ins. above ground, firmly set, marked SC $\frac{1}{4}$ on N. face, witnessed by two bearing trees, as follows:

- A juniper, 12 ins. in diam., N. 40° E., 43 lks. dist., marked SC $\frac{1}{4}$ S B T.
A juniper, 8 ins. in diam., N. 52° W., 20 lks. dist., marked SC $\frac{1}{4}$ S B T.

Thence,

- N. 89° 48' E., on a true line, on S. bdy. of sec. 32 (E. $\frac{1}{2}$).
Over slightly rolling land, thru scattering timber and undergrowth. Ascend gradually over N. slope.
2.25 Intersect the closing cor. of Ts. 20 N., Rs. 5 and 6 W., established by David W. Eaton, U.S.T. in 1918, which is an iron post, 3 ins. in diam., properly marked on brass cap, and firmly set in a mound of stone, and witnessed by two bearing trees as follows:
A pinyon, 8 ins. in diam., S. 51 $\frac{1}{2}$ ° E., 42 lks. dist., marked CC T20N R5W S6 BT.
A cedar, 20 ins. in diam., S. 56 $\frac{1}{2}$ ° W., 186 lks. dist., marked CC T20N R6W S1 BT.

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

Chains.

7.76
37.46
39.96

Continue line and measurement, over slightly rolling land, thru. scattering timber and undergrowth.
 Fence, brs. SE. and NW.
 Same fence, brs. NE. and SW.
 Intersect the ~~old~~ standard cor. of secs. 32 and 33, which is a malpais stone 10x8x7 ins. above ground, firmly set, marked SC on N. face, 2 notches on W. edge and 4 notches on E. edge, and witnessed by two bearing trees as follows:
 A juniper, 6 ins. in diam., N. 29 1/2° E., 27 lks. dist., marked SC T21 N R 5 W S 33 BT.
 A juniper, 8 ins. in diam., N. 31 1/2° W., 70 lks. dist., marked SC T21 N R 5 W S 32 BT.
 Evidently the authentic cor., although the description of bearing trees does not agree with the record.
 Alongside old stone, set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bed rock, supported in a mound of stone, for ~~the~~ standard cor. of secs. 32 and 33, marked on brass cap,

S	C
T21 N	R 5 W
S 32	S 33

1920

Land, slightly rolling.
 Soil, loose rock and gumbo, 4th rate.
 Timber, scattering cedar and pinyon.
 Undergrowth, scattering oak brush, catclaw and greasewood.
 Good grass.

N. 89° 53' E., on a true line on S. bdy. of sec. 33 (W. 1/2).
 Over slightly rolling land, thru. scattering timber and undergrowth.

4.21

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor. of sec. 6, marked on brass cap;

1/4 S	6
-------	---

1920

from which,
 A pinyon, 12 ins. in diam., brs. S. 70 1/4° E., 42 lks. dist., marked 1/4 S 6 BT.
 A pinyon, 6 ins. in diam., brs. S. 52 1/2° W., 50 lks. dist., marked 1/4 S 6 B T.

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.
 Continue line and measurement, over slightly rolling land, thru. scattering timber and undergrowth.

40.36

Intersect the ~~old~~ standard 1/4 sec. cor. of sec. 33, which is a granite stone, 18x15x10 ins. above ground, firmly set, marked SC 1/4 on N. face, and witnessed by a mound of stone N. of cor. 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 ~~the~~ standard 1/4 sec. cor. of sec. 33, marked on brass cap,

S	C
1/4 S	33

1920

from which
 A pinyon, 10 ins. diam., brs., N. 76 1/2° W., 208 lks. dist., marked SC 1/4 S 33 BT.

Thence,

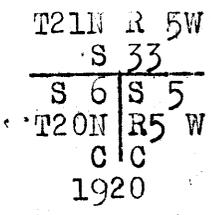
6 Resurvey of Fifth Std. Parallel North, thru part of range 5 W.

Chains.

S. 88° 57' E., on a true line, on S. bdy. of sec. 33 (E. 1/2).
Over rolling land, thru scattering timber and undergrowth.
Descend 30 ft., over NE. slope.

2.05

3.85 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 closing cor. of secs. 5 and 6, marked on brass cap,



from which,

A pine, 6 ins. in diam., brs. S. 11 1/4° E., 39 lks. dist., marked T20N R5W S5 CC BT.

A pinyon, 10 ins. in diam., brs. S. 20° W., 74 lks. dist., marked T20N R5W S 6 CC BT.

Continue line and measurement.

Leave rolling and enter mountainous land. Continue thru scattering timber and undergrowth.

13.50 Gulch, course NE. Ascend 23 ft., over NW. slope.

18.50 Spur, slopes N. Descend 46 ft., over E. slope.

23.64 Gulch, course N. Ascend 190 ft., over W. slope, to

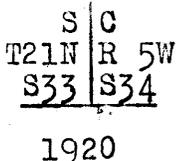
40.88 Intersect the standard cor. of secs. 33 and 34, which is a granite stone, 20x18x10 ins. above ground, firmly set, marked SC on N. face, 3 notches on each of E. and W. edges, and witnessed by bearing tree as follows:

A pinyon, 6 ins. in diam., N. 45° E., 27 lks. dist., marked SC T21N R5W S34 BT.

A cedar, 8 ins. in diam., N. 84° W., 67 lks. dist., marked SC T21N R5W S33 BT.

Evidently the authentic cor., although not agreeing with the record.

Alongside the old stone, set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to bed rock, supported in a mound of stone, for standard cor. of secs. 33 and 34, marked on brass cap,



Land, W. 1/2 rolling; E. 1/2, mountainous.

Soil, rocky, 4th rate.

Timber, scattering pinyon and cedar.

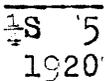
Undergrowth, scattering oak brush, catclaw and greasewood.

Good grass.

N. 89° 24' E., on a true line, on S. bdy. of sec. 34 (W. 1/2).
Over mountainous land, thru scattering timber and undergrowth. Ascend 15 ft., over NW. slope, to

1.27 Spur, slopes N. Descend 30 ft., over NE. slope, to

2.97 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bed rock, supported in a mound of stone, for 1/4 sec. cor. of sec. 5, marked on brass cap,



from which,

Resurvey of Fifth Std. Parallel N., thru. part of Range 5 West.

7

Chains.

A pinyon, 8 ins. in diam., brs. S. 50° E., 59 lks.
dist., marked $\frac{1}{4}$ S 5 BT.

A pinyon, 6 ins. in diam., brs. S. 43° W., 29 lks.
dist., marked $\frac{1}{4}$ S 5 BT.

Continue line and measurement.

Over mountainous land, thru. scattering timber and undergrowth.

Descend 300 ft., over NE. slope, to

40.04

Intersect the standard $\frac{1}{4}$ sec. cor. of sec. 34, reestablished
by Wm. R. Johnston, U.S.T. in 1916, which is an iron
post 1 in. in diam., projecting 12 ins. above ground,
firmly set, properly marked on brass cap, and witnessed
by a mound of stone, N. of cor. No bearing trees.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering pinyon and cedar.

Undergrowth, scattering oak brush, catclaw and greasewood.

Good grass.

8 Survey of a portion (completion) of the Subdivision lines of Township 20 North, Range 5 West.

Chains.

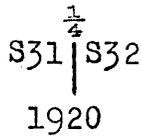
The east four ranges of sections in this township were surveyed in 1916 by Wm. R. Johnston, U.S.T., and the following notes describe the survey of the west two tiers of secs., or the completion of the survey of the Subdivision lines of this Tp.

The original cor. of secs. 5, 6, 31 and 32, on S. bdy. of Tp., established by Thomas W. Bates, U.S.T., in 1918, is an iron post, 3 ins. in diam., projecting 30 ins. above ground, properly marked on brass cap, firmly set in a mound of stone, and witnessed by four properly marked bearing trees as follows:

- A cedar, 18 ins. in diam., N. 23 1/2° E., 41 lks. dist.
- A pinyon, 24 ins. in diam., S. 71 1/2° E., 21 lks. dist.
- A cedar, 6 ins. in diam., S. 53 1/4° W., 61 lks. dist.
- A pinyon, 8 ins. in diam., N. 48 1/2° W., 75 lks. dist.

Thence, N. 0° 03' W., bet. secs. 31 and 32. Over mountainous land, thru. dense timber and undergrowth. Descend 15 ft., over NW. slope.

- 1.28 Gulch, course NE. Thence along E. slope. Ascend slightly to
- 10.38 Gulch, course SE. Ascend 133 ft., over SW. slope.
- 33.85 Ridge, brs. NE and SW. Descend 150 ft. over NW. slope.
- 39.41 Gulch, course NE. Ascend slightly over SE. slope, to
- 40.00 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 1/4 sec. cor., marked on brass cap,

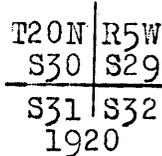


from which,

- A cedar, 8 ins. in diam., brs. N. 52 1/2° E., 44 lks. dist., marked S 32 BT.
- A pinyon, 8 ins. in diam., brs. S. 72 1/2° W., 8 lks. dist., marked S 31 BT.

Ascend 75 ft., over SE. slope. Ridge, brs. NE and SW. Descend 196 ft., over NW. slope. Canyon, course NE. Ascend 160 ft., over SE. slope. Ridge, brs. E. and SW. Descend 75 ft., over NE. slope. Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked on brass cap,

- 53.38
- 67.79
- 75.01
- 80.00



from which,

- A cedar, 12 ins. in diam., brs. N. 86 1/2° E., 30 lks. dist., marked T20N R5W S29 BT.
- A pinyon, 10 ins. in diam., brs. S. 69 1/4° E., 19 lks. dist., marked T20N R5W S32 BT.
- A cedar, 6 ins. in diam., brs. S. 84 1/2° W., 37 lks. dist., marked T20N R5W S31 BT.
- A cedar, 14 ins. in diam., brs. N. 53 3/4° W., 85 lks. dist., marked T20N R5W S30 BT.

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

East, on a random line, bet. secs. 29 and 32. Set temp. 1/4 sec. cor.

- 40.00
- 80.00

Set an iron post, 2 ins. in diam., projecting 30

Survey of portion (Completion) of the
 Subdivision lines in Township 20 North, Range 5 West.

Chains.

ins, above ground, properly marked on brass cap, firmly set in a mound of stone, and witnessed by four properly marked bearing trees as follows:

- A pinyon, 12 ins. in diam., N. 33 $\frac{1}{2}$ ° E., 69 lks. dist.
- A pinyon, 12 ins. in diam., S. 3° E., 113 lks. dist.
- A pinyon, 8 ins. in diam., S. 25 $\frac{1}{4}$ ° W., 73 lks. dist.
- A pinyon, 12 ins. in diam., N. 59 $\frac{1}{2}$ ° W., 97 lks. dist.

Thence,
 S. 89° 53' W., on a true line, bet. secs. 29 and 32.
 Over mountainous land, thru. dense timber and undergrowth.
 Ascend 34 ft., over NE. slope.
 4.20 Spur, slopes NE. Descend 46 ft., over NW. slope.
 11.93 Wash, 18 lks. wide, course NE. Thence over flat bottom land.
 27.64 Wash, 8 lks. wide, course NE. Leave bottom; ascend 110 ft. over SE. slope, to
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 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 29
 S 32
 1920

from which,

- A pinyon, 6 ins. in diam., brs. N. 70 $\frac{3}{4}$ ° E., 14 lks. dist., marked $\frac{1}{4}$ S 29 BT.
- A pinyon, 6 ins. in diam., brs. S. 13° W., 67 lks. dist., marked $\frac{1}{4}$ S 32 BT.

Ascend 295 ft., over SE. slope.
 55.62 Ridge, brs. NE. and SW. Descend 210 ft., over NW. slope.
 66.40 Head of gulch, course N. Ascend 110 ft. over NE. slope, to
 80.00 The cor. of secs. 29, 30, 31 and 32.
 Land, mountainous and level.
 Soil, rocky, 4th rate.
 Timber, dense pinyon and cedar.
 Undergrowth, dense oak brush and greasewood.
 Good grass.

40.00 West, on a random line, bet. secs. 30 and 31.
 81.77 Set temp. $\frac{1}{4}$ sec. cor.
 Fall 15 lks. S. of the original cor. of secs. 25, 30, 31 and 36, on W. bdy. of Tp., established by David W. Eaton, U.S.T., in 1918, which is an iron post 3 ins. in diam., projecting 26 ins. above ground, properly marked on brass cap, firmly set in a mound of stone, and witnessed by four properly marked bearing trees as follows:

- A cedar, 14 ins. in diam., N. 52° E., 50 lks. dist.
- A pinyon, 10 ins. in diam., S. 03° E., 10 lks. dist.
- A pinyon, 14 ins. in diam., S. 43 $\frac{1}{2}$ ° W., 80 lks. dist.
- A cedar, 12 ins. in diam., N. 33 $\frac{1}{2}$ ° W., 40 lks. dist.

Thence,
 S. 89° 54' E., on a true line, bet. secs. 30 and 31.
 Over mountainous land, thru. dense timber and undergrowth.
 Ascend 25 ft., over NW. slope, to
 12.16 Ascend 50 ft., over SW. slope.
 19.12 Spur, slopes S. Descend 40 ft., over SE. slope.
 24.97 Ascend 30 ft., over SW. slope.
 32.04 Spur, slopes SE. Descend 130 ft., over SE. slope, to
 41.77 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., marked on brass cap,

$\frac{1}{4}$ S 30
 S 31
 1920

from which,

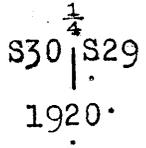
- A pinyon, 14 ins. in diam., brs. N. 80 $\frac{1}{2}$ ° E., 73 lks. dist., mark $\frac{1}{4}$ S 30 BT.
- A pinyon, 8 ins. in diam., brs. S. 53° E., 53 lks. dist., marked $\frac{1}{4}$ S 31 BT.

Survey of a portion (completion) of the
 Subdivision Lines of Township 20 North, Range 5 West.

10 Chains.

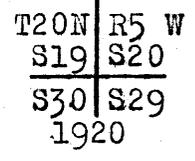
46.81 Descend 141 ft. over SE. slope.
 51.77 Gulch, course NE. Ascend 35 ft., over NW. slope.
 59.54 Spur, slopes N. Descend 120 ft., over NE. slope.
 63.88 Gulch, course NE. Ascend 46 ft. over NW. slope.
 68.81 Spur, slopes N. Descend 44 ft., over NE. slope.
 74.51 Gulch, course N. Ascend 140 ft., over NW. slope.
 81.77 Point of spur, slopes N. Descend 123 ft., over NE. slope, to
 The cor. of secs. 29, 30, 31 and 32.
 Land, mountainous.
 Soil, rocky, limestone formation, 4th rate.
 Timber, dense pinyon and cedar.
 Undergrowth, dense oak brush and greasewood.
 Good grass.

8.52 N. 0° 03' W., bet. secs. 29 and 30.
 17.44 Over mountainous land, thru. dense timber and undergrowth.
 27.78 Descend 100 ft., over NE. slope.
 40.00 Wash, 12 lks. wide, course E. Ascend 150 ft., over SE. slope.
 Spur, slopes E. Descend 100 ft., over N. slope.
 Wash, 5 lks. wide, in gulch, course NE. Ascend 254 ft., over
 SE. slope, to
 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,



from which,
 A pinyon, 8 ins. in diam., brs. N. 46° E., 108 lks.
 dist., marked $\frac{1}{4}$ S 29 BT.
 A pinyon, 8 ins. in diam., brs. N. 40° W., 62 lks.
 dist., marked $\frac{1}{4}$ S 30 BT.

Ascend 69 ft., over S. slope.
 46.00 Spur, slopes SE. Descend 70 ft., over NE. slope.
 55.96 Gulch, course SE. Ascend 130 ft., over SW. slope.
 64.31 Spur, slopes NE. Descend 340 ft., over N. slope.
 78.09 Wash, 18 lks. wide, in gulch, course E. Ascend slightly
 across bottom of gulch, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground, for cor. of secs. 19, 20, 29 and 30, marked
 on brass cap,



from which,
 A cedar, 8 ins. in diam., brs. N. 82 $\frac{1}{2}$ ° E., 212 lks.
 dist., marked T20N R5W S20 BT.
 A cedar, 30 ins. in diam., brs. S. 4° E., 318 lks.
 dist., marked T20N R5W S29 BT.
 A pinyon, 8 ins. in diam., brs. S. 28 $\frac{1}{2}$ ° W., 247 lks.
 dist., marked T20N R5W S30 BT.
 A cedar, 5 ins. in diam., brs. N. 85 $\frac{1}{2}$ ° W., 501 lks.
 dist., marked T20N R5W S19 BT

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

40.00 N. 89° 53' E., on a random line, bet. secs. 20 and 29.
 80.18 Set temp. $\frac{1}{4}$ sec. cor.
 Fall 14 lks. S. of the original cor. of secs. 20, 21, 28 and 29.

Survey of a portion (Completion) of the
Subdivision lines of Township 20 North, Range 5 West, 11

Chains.

which is an iron post, 2 ins. in diam., projecting 16 ins. above ground, properly marked on brass cap, firmly set in a mound of stone, and witnessed by four properly marked bearing trees, as follows:

- A pinyon, 6 ins. in diam., N. 37 $\frac{1}{2}$ ° E., 5 lks. dist.
- A pinyon, 6 ins. in diam., S. 40 $\frac{1}{2}$ ° E., 39 lks. dist.
- A pinyon, 8 ins. in diam., N. 65 $\frac{1}{2}$ ° W., 54 lks. dist.
- A pinyon, 7 ins. in diam., S. 43 $\frac{1}{2}$ ° W., 49 lks. dist.

Thence, S. 89° 47' W., on a true line, bet. secs. 20 and 29. Over mountainous land, thru. dense timber and undergrowth. Ascend 345 ft., over E. slope.

- 13.60 Spur, slopes S. Descend 223 ft., over W. slope.
- 33.52 Wash, 5 lks. wide, course S. Ascend 40 ft., over SE. slope, to
- 40.09 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 $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 20
S 29
1920

from which,

- A pinyon, 7 ins. in diam., brs. N. 8° E., 73 lks. dist., marked $\frac{1}{4}$ S 20 BT.
- A pinyon, 6 ins. in diam., brs. S. 20° W., 45 lks. dist., marked $\frac{1}{4}$ S 29 BT.

Ascend 15 ft., over SE. slope, to

- 43.36 Spur, slopes S. Descend 23 ft., over SW. slope.
- 45.00 Leave dense and enter scattering timber.
- 50.88 Wash, 20 lks. wide, course SE. Thence over NE. slope near foot, with little change in elevation.
- 73.58 Wash, 18 lks. wide, course NE. Ascend 10 ft., across bottom of gulch, to
- 80.18 The cor. of secs. 19, 20, 29 and 30. Land, mountainous. Soil, rocky, 4th rate. Timber, cedar and pinyon, scattering and dense as noted. Undergrowth, dense oak brush and greasewood. Good grass.

N. 89° 54' W., on a random line, bet. secs. 19 and 30.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 81.61 Fall 9 lks. N. of the original cor. of secs. 19, 24, 25 and 30, on W. bdy. of tp., which is an iron post, 3 ins. in diam., projecting 26 ins. above ground, properly marked on brass cap, firmly set in a mound of stone and witnessed by four properly marked bearing trees as follows:

- A cedar, 10 ins. in diam., N. 21° E., 32 lks. dist.,
- A cedar, 14 ins. in diam., S. 80 $\frac{1}{2}$ ° E., 42 lks. dist.
- A pinyon, 12 ins. in diam., S. 12 $\frac{1}{2}$ ° W., 60 lks. dist.
- A pinyon, 12 ins. in diam., N. 78 $\frac{1}{2}$ ° W., 37 lks. dist.

Thence, S. 89° 58' E., on a true line, bet. secs. 19 and 30. Over mountainous land, thru. dense timber and undergrowth. Ascend 16 ft., over NW. slope.

- 1.86 Spur, slopes NE. Descend 206 ft., over SE. slope.
- 17.69 Wash, 18 lks. wide, course NE. Ascend 83 ft., over NW. slope.
- 33.66 Spur, slopes N. Descend 114 ft., over SE. slope, to
- 41.61 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 19
S 30
1920

from which,

Survey of a portion of (Completion) of the
Subdivision Lines of Township 20 North, Range 5 West.

12

Chains.

A cedar, 5 ins. in diam., brs. S. 73° W., 12 lks.
dist., marked $\frac{1}{4}$ S 30 BT.

A cedar, 5 ins. in diam., brs. N. 32 $\frac{1}{4}$ ° E., 16 lks.
dist., marked $\frac{1}{4}$ S 19 BT.

Descend 17 ft., over SE. slope.

42.11 Wash, 6 lks. wide, course NE. Ascend 23 ft., over NW. slope.

52.79 Ascend 17 ft., over NW. slope.

56.37 Spur, slopes N. Descend 100 ft., over E. slope.

61.61 Enter gulch bottom, brs. SE. and NW. Leave dense, and enter
scattering timber. Descend slightly in nearly level
gulch, bottom to sec. cor.

68.91 Wash, 16 lks. wide, course SE.

81.61 The cor. of secs. 19, 20, 29 and 30.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, pinyon and cedar, dense and scattering as noted.
Undergrowth, dense oak brush and greasewood.
Good grass.

N. 0° 03' W., bet. secs. 19 and 20.
Over mountainous land, thru. scattering timber and under-
growth. Ascend 185 ft., over S. slope.

9.66 Leave scattering and enter dense timber. Continue thru.
scattering undergrowth.

11.05 Ridge, brs. E. and W. Descend 90 ft., over NE. slope.

20.85 Gulch, course NE. Ascend 100 ft., over SE. slope.

26.55 Spur, slopes E. Descend 160 ft., over NE. slope.

37.05 Gulch, course NE. Ascend 35 ft., over S. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in
the ground to bed rock, supported in a mound of stone,
for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
S19 | S20
1920

from which,

A pinyon, 12 ins. in diam., brs. S. 20 $\frac{1}{2}$ ° E., 20 lks.
dist., marked $\frac{1}{4}$ S 20 BT.

A cedar, 6 ins. in diam., brs. S. 33° W., 24 lks.
dist., marked $\frac{1}{4}$ S 19 BT.

Ascend 425 ft., over SE. slope.

41.63 Fence, brs. E. and W.

58.83 S. rim of flat topped spur, brs. NE. and SW. Thence over
top of spur; slopes SW.

68.83 N. rim of same spur, brs. NE. and SW. Descend 100 ft., over
NW. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for cor. of secs. 17, 18, 19 and 20, marked
on brass cap,

T20N | R5 W
S18 | S17
S19 | S20
1920

from which,

A cedar, 15 ins. in diam., brs. N. 37 $\frac{1}{2}$ ° E., 46 lks.
dist., marked T20N R5W S17 BT.

A cedar, 14 ins. in diam., brs. S. 51° E., 14 lks.
dist., marked T20N R5W S20 BT.

A cedar, 10 ins. in diam., brs. S. 16 $\frac{1}{2}$ ° W., 37 lks.
dist., marked T20N R5W S19 BT.

A pinyon, 6 ins. in diam., brs. N. 22° W., 51 lks.
dist., marked T20N R5W S18 BT.

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

Survey of a portion (Completion) of the
Subdivision lines of Township 20 North, Range 5 West.

Chains.		
40.00 79.90	<p>N. 89° 47' E., on a random line, bet. secs. 17 and 20. Set temp. $\frac{1}{4}$ sec. cor. Fall 2 lks. N. of the original cor. of secs. 10, 17, 20 and 21, which is an iron post, 2 ins. in diam., projecting 21 ins. above ground, properly marked on brass cap, and firmly set in a mound of earth and stone, and witnessed by four properly marked bearing trees as follows: A pinyon, 6 ins. in diam., N. 23° E., 53 lks. dist. A pinyon, 6 ins. in diam., S. 56$\frac{1}{2}$° E., 32 lks. dist. A pinyon, 8 ins. in diam., S. 31° W., 47 lks. dist. A pinyon, 6 ins. in diam., N. 38$\frac{1}{2}$° W., 41 lks. dist.</p> <p>Thence, S. 89° 48' W., on a true line, bet. secs. 17 and 20. Over mountainous land, thru. dense timber and undergrowth. Ascend 510 ft., over SE. slope, to Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,</p>	
39.95 45.50 64.57 71.94 79.90	<p style="text-align: center;"><u>1/4 S 17</u> S 20 1920</p> <p>from which, A cedar, 7 ins. in diam., brs. S. 5° W., 39 lks. dist., marked $\frac{1}{4}$ S 20 BT. A pinyon, 6 ins. in diam., brs. N. 11° W., 23 lks. dist., marked $\frac{1}{4}$ S 17 BT.</p> <p>Ascend 130 ft., over E. slope. Spur, slopes SE. Descend 50 ft., over SW. slope. Gulch, course SE. Ascend 114 ft., over SE. slope. Spur, slopes S. Descend 134 ft., over W. slope, to The cor. of secs. 17, 18, 19 and 20. Land, mountainous. Soil, rocky, 4th rate. Timber, dense pinyon and cedar. Undergrowth, dense oak brush and scrub cedar. Good grass.</p>	
40.00 81.92 6.35 18.50 34.70 41.92	<p>N. 89° 58' W., on a random line, bet. secs. 18 and 19. Set temp. $\frac{1}{4}$ sec. cor. Fall 12 lks. S. of the original cor. of secs. 13, 18, 19 and 24, on W. bdy. of Tp., which is an iron post, 2 ins. in diam., projecting 21 ins. above ground, properly marked on brass cap, set in a mound of stone, and witnessed by four properly marked bearing trees, as follows: A pinyon, 12 ins. in diam., N. 72$\frac{1}{2}$° E., 67 lks. dist., A cedar, 12 ins. in diam., S. 56° 10' E., 95 lks. dist. A cedar, 20 ins. in diam., S. 53$\frac{1}{2}$° W., 76 lks. dist. A cedar, 14 ins. in diam., N. 47° W., 40 lks. dist.</p> <p>Thence, S. 89° 53' E., on a true line, bet. secs. 18 and 19. Over mountainous land, thru. dense timber and undergrowth. Ascend gradually, over N. slope, from flat topped knoll. Fence, brs. N. and S. Descend 120 ft., over SE. slope. Foot of descent, brs. N. and S. Ascend slightly over SW. slope, to 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,</p> <p style="text-align: center;"><u>1/4 S 18</u> S 19 1920</p> <p>from which, A cedar, 24 ins. in diam., brs. S. 25$\frac{3}{4}$° W., 16 lks. dist., marked $\frac{1}{4}$ S 19 BT. A cedar, 18 ins. in diam., brs. N. 33$\frac{1}{2}$° W., 50 lks. dist., marked $\frac{1}{4}$ S 18 BT.</p> <p>Raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor. Ascend 35 ft., over SW. slope.</p>	

Survey of portion (Completion) of the
Subdivision lines of Township 20 North, Range 5 West.

Chains.

53.55 Spur, slopes SE. Descend 200 ft., over E. slope.
63.65 Gulch, course SW. Ascend 184 ft., over W. slope.
72.34 Spur, slopes SW. Descend 86 ft., over E. slope.
78.54 Gulch, course SW. Ascend 70 ft., over W. slope.
81.92 The cor. of secs. 17, 18, 19 and 20.

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

N. 0° 03' W., bet. secs. 17 and 18.

Over mountainous land, thru dense timber and undergrowth.
Descend 10 ft., over W. slope.

1.30 Foot of descent, brs. NE. Ascend 310 ft., over SW. slope.
24.44 Ridge, brs. E. and W. Descend 180 ft., over NW. 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,

$\frac{1}{4}$
S18 | S17
1920

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

45.00 Descend 65 ft., over NW. slope.
Foot of descent, brs. NE. and SW. Descend gradually over
rolling NE. slope, on bench to
80.00 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, 8, 17 and 18, marked on brass cap,

T20N | R 5W
S 7 | S 8

S18 | S17
1920

from which,

A cedar, 10 ins. in diam., brs. N. 30° E., 87 lks.
dist., marked T20N R5W S8 BT.

A cedar, 12 ins. in diam., brs. S. 70° E., 26 lks. dist.,
marked T20N R5W S17 BT.

A cedar, 8 ins. in diam., brs. S. 47° W., 58 lks. dist.,
marked T20N R5W S18 BT.

A cedar, 6 ins. in diam., brs. N. 60 $\frac{1}{2}$ ° W., 41 lks. dist.
marked T20N R5W S7 BT.

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

N. 89° 48' E., on a random line, bet. secs. 8 and 17.

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

80.06 Fall 9 lks. S. of the original cor. of secs. 8, 9, 16 and 17,
which is an iron post, 2 ins. in diam., projecting
30 ins. above ground; properly marked on brass cap,
firmly set in a mound of stone, and witnessed by four
properly marked bearing trees as follows:

A pinyon, 8 ins. in diam., N. 85° E., 25 lks. dist.,

A cedar, 15 ins. in diam., S. 44 $\frac{1}{2}$ ° E., 19 lks. dist.

A pinyon, 7 ins. in diam., S. 30 $\frac{1}{2}$ ° W., 45 lks. dist.

A pinyon, 8 ins. in diam., N. 20 $\frac{1}{2}$ ° W., 59 lks. dist.

Thence,

S. 89° 44' W., on a true line, bet. secs. 8 and 17.

Over mountainous land, thru dense timber and undergrowth.
Descend 150 ft., over W. slope, to

Survey of a portion of (Completion) of the
Subdivision lines of Township 20 North, Range 5 West.

Chains.	
4.24	Gulch, course SW. Descend 100 ft., over SW. slope, to
14.87	Gulch, course S. Ascend 267 ft., over E. slope, to
25.00	Rim of bench, brs. N. and S. Leave mountainous, and enter rolling land on bench.
40.03	Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} \frac{S}{S} \frac{8}{17}$ 1920
	from which, A cedar, 16 ins. in diam., brs. N. $68\frac{1}{2}^{\circ}$ E., 44 lks. dist., marked $\frac{1}{4}$ S 8 BT. A cedar, 16 ins. in diam., brs. S. 62° W., 12 lks. dist., marked $\frac{1}{4}$ S 17 BT.
	Leave bench. Ascend 66 ft., over NE. slope.
49.70	Spur, slopes NW. Descend 55 ft., over SW. slope.
54.09	Gulch, course NW. Leave rolling and enter mountainous land. Ascend 110 ft., over NE. slope, to
67.56	Rim of bench, brs. NW. and SE. Leave mountainous and enter rolling land on bench.
80.06	The cor. of secs. 7, 8, 17 and 18. Land, mountainous and rolling. Soil, rocky, 4th rate. Timber, dense pinyon and cedar. Undergrowth, dense oak brush and greasewood. Good grass.
<hr/>	
40.00	N. $89^{\circ}53'$ W., on a random line, bet. secs. 7 and 18.
81.87	Set temp. $\frac{1}{4}$ sec. cor. Fall 2 lks. N. of the original cor. of secs. 7, 12, 13 and 18, on W. bdy. of Tp., which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by four bearing trees, properly marked, as follows: A cedar, 12 ins. in diam., N. $46\frac{1}{2}^{\circ}$ E., 128 lks. dist., A cedar, 12 ins. in diam., S. 59° E., 22 lks. dist. A cedar, 14 ins. in diam., S. 56° W., 38 lks. dist. A pinyon, 12 ins. in diam., N. 57° W., 31 lks. dist.
	Thence, S. $89^{\circ}54'$ E., on a true line, bet. secs. 7 and 18. Over mountainous land, thru. scattering timber and undergrowth. Descend 132 ft., over E. slope.
6.15	Fence, brs. N. and S.
12.92	Gulch, course NE. Ascend 152 ft., over NW. slope.
25.35	Spur, slopes N. Descend 140 ft., over E. slope, to
41.87	Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} \frac{S}{S} \frac{7}{18}$ 1920
	from which, A pinyon, 7 ins. in diam., brs. S. $68\frac{1}{2}^{\circ}$ W., 159 lks. dist., marked $\frac{1}{4}$ S 18 BT. A pinyon, 8 ins. in diam., brs. N. $46\frac{1}{2}^{\circ}$ W., 189 lks. dist., marked $\frac{1}{4}$ S 7 BT.
	Descend slightly over E. slope, to
42.25	Gulch, course N. Ascend 130 ft., over W. slope, to
54.00	Rim of bench, brs. N and S. Leave mountainous and enter rolling land on bench. Ascend gradually over N. slope to
81.87	The cor. of secs. 7, 8, 17 and 18. Land, mountainous and rolling. Soil, rocky, 4th rate. Timber, scattering cedar and pinyon. Undergrowth, scattering oak brush and greasewood. Good grass.

Survey of a portion of (Completion) of the
Subdivision lines of Township 20 North, Range 5 West.

16

Chains.

N. 0° 3' W., bet. secs. 7 and 8.
Over rolling land, thru. dense timber and undergrowth.
Descend 50 ft., over rolling NW. slope on bench.
6.62 Head gulch, course NW. Ascend 54 ft. over SW. slope on bench.
23.45 Rim of bench, brs. NW and SE. Leave rolling and enter
mountainous land. Descend 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 7 | S 8
1920

from which,

A cedar, 7 ins. in diam., brs. N. 75 $\frac{1}{2}$ ° E., 165 lks.
dist., marked $\frac{1}{4}$ S 8 BT.
A cedar, 8 ins. in diam., brs. S. 34° W., 35 lks.
dist., marked $\frac{1}{4}$ S 7 BT.
Descend 30 ft., over N. slope, to
55.00 Descend 200 ft., over NW. slope, to
69.57 Descend 90 ft., over 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. 5, 6, 7 and 8, marked on brass
cap,

T20N | R 5W
S 6 | S 5
S 7 | S 8
1920

from which,

A pinyon, 12 ins. in diam., brs. N. 1° E., 8 lks.
dist., marked T20N R5W S 5 BT.
A pinyon, 6 ins. in diam., brs. S. 33 $\frac{1}{2}$ ° E., 24 lks.
dist., marked T20N R5W S 8 BT.
A pinyon, 6 ins. in diam., brs. S. 20 $\frac{3}{4}$ ° W., 33 lks.
dist., marked T20N R5W S 7 BT.
A pinyon, 12 ins. in diam., brs. N. 79 $\frac{1}{4}$ ° W., 78 lks.
dist., marked T20N R5W S 6 BT.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, dense cedar and pinyon.
Undergrowth, dense oak brush and greasewood.
Good grass.

N. 89° 44' E., on a random line, bet. secs. 5 and 8.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.84 Fall 14 lks. N. of the original cor. of secs. 4, 5, 8 and 9,
which is an iron post, 2 ins. in diam., projecting 12
ins. above ground, properly marked on brass cap, and
witnessed by four pits, one in each sec. 5 $\frac{1}{2}$ ft. dist.,
from cor., and mound of earth, W. of cor. No bearing
trees.

Thence,
S. 89° 50' W., on a true line, bet. secs. 5 and 8.
Over mountainous land, thru. dense timber and undergrowth.
Ascend 134 ft., over SE. slope.
13.68 Point of spur, slopes S. Descend 84 ft., over SW. slope.
34.04 Gulch, course SE. Ascend 72 ft., over SE. slope, to
39.92 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 5
S 8
1920

Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
Ascend 343 ft., over SE. slope.

Survey of a portion (Completion) of the
 Subdivision lines of Township 20 North, Range 5 West. 17

Chains.

54.88 E. rim of flat topped spur, brs.NE and SW. Thence over level top of point of spur, sloping NE.
 64.37 W. rim of same spur, brs.NE and SW. Descend 310 ft., over NW.slope.
 75.73 Gulch, course NW. Ascend 43 ft., over NE.slope, to
 79.84 The cor.of secs. 5,6,7 and 8.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, dense pinyon and cedar.
 Undergrowth, dense oak brush, catclaw and greasewood.
 Good grass.

N.89°54'W., on a random line, bet. secs.6 and 7.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 81.95 Fall 5 lks.S. of the original cor.of secs.1,6,7 and 12 on W.bdy, of Tp., which is an iron post, 3 ins. in diam., projecting 12 ins.above ground, properly marked on brass cap, and witnessed by four properly marked bearing trees, as follows:
 A cedar, 12 ins. in diam., N.34 $\frac{1}{2}$ °E., 147 lks.dist.
 A cedar, 14 ins. in diam., S.81°E., 88 lks.dist.
 A cedar, 12 ins. in diam., S.41 $\frac{1}{2}$ °W., 97 lks.dist.
 A cedar, 12 ins. in diam., N.69°W., 83 lks.dist.

Thence,
 S,89°52'E., on a true line, bet. secs.6 and 7.
 Over level mesa, thru.dense timber and undergrowth.
 6.65 Fence, brs.N.and S.
 41.95 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,

$$\frac{1}{4} \frac{S \ 6}{S \ 7} \\ 1920$$

from which,
 A forked cedar, 12 ins. in diam., brs.N.89 $\frac{1}{2}$ °E., 85 lks.dist., marked $\frac{1}{4}$ S 6 BT.
 A cedar, 10 ins. in diam., brs.S.16 $\frac{1}{2}$ °E., 138 lks. dist., marked $\frac{1}{4}$ S 7 BT.
 Continue over level mesa, thru. dense timber and undergrowth.
 62.47 E. rim of mesa, brs.NE and SW. Leave level, and enter mountainous land. Descend 83 ft., over SE.slope.
 68.44 Gulch, course NE. Ascend 34 ft., over NW.slope.
 72.50 Point of rocky spur, brs.N. Descend 144 ft., over NE.slope.
 79.68 Gulch, course NE. Ascend 45 ft., over NW.slope, to
 81.95 The cor.of secs,5,6,7 and 8.
 Land, level and mountainous.
 Soil, loose rock and gumbo on mesa, rocky, 4th rate elsewhere.
 Timber, dense pinyon and cedar.
 Undergrowth, oak brush, greasewood and catclaw.
 Grass, good.

N.0° 03' W., on a true line, bet. secs. 5 and 6.
 Over mountainous land, thru. dense timber and undergrowth.
 Descend 105 ft., over N.slope.
 3.20 Gulch, course NE. Ascend 50 ft., over SE.slope.
 9.90 Point of spur, slopes E.from SW. Descend 84 ft., over NE slope.
 13.42 Gulch, course NE. Ascend 270 ft., over SE.slope.
 20.72 Top of cliff, 30 ft.high, and S.rim of point of mesa, brs. NE.and SW. Thence over point of mesa.
 32.00 N. rim of point of mesa, brs.E.and W. Leave point of mesa. Desc. 107 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,

Chains.

S 6 | S 5

1920

from which,

A cedar, 10 ins. in diam., brs. S. $2\frac{1}{2}^{\circ}$ E., 12 lks.
dist., marked $\frac{1}{4}$ S 5 BT.A cedar, 10 ins. in diam., brs. S. 9° W., 14 lks.
dist., marked $\frac{1}{4}$ S 6 BT.

Descend 113 ft., over N. slope.

44.29 Gulch, course NE. Ascend 90 ft., over SE. slope, to

49.45 Intersect the N. hdy. of Tp., (5th. Std. Parallel N.), 3.85
chs. S $88^{\circ} 57'$ E., from the standard $\frac{1}{4}$ sec. cor. of sec. 33.
of sec. 33. Set a 2 in. iron post for closing cor. of
secs. 5 and 6, as hereinbefore described.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense pinyon and cedar.

Undergrowth, dense oak brush, catclaw and greasewood.

Good grass.

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

Boundaries of the Portion of T.20 N.,
R.5 W., surveyed under Group 104.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist- ance.	Latitudes.		Departures.	
			N.	S.	E.	W.
Subdivisional Bdy.	N.0°02'W.	449.09	449.09			.26
North Bdy. (5th Std. Par. N.)	N.89°17'W.	2.92	.04			2.92
	S.89°24'W.	40.04		.42		40.04
	N.88°57'W.	40.88	.75			40.87
	S.89°53'W.	40.36		.08		40.36
	S.89°48'W.	37.71		.13		37.71
West Bdy.	South	449.11		449.11		
South Bdy.	East	161.65			161.65	
Convergency -----						.17
<u>Totals</u>			449.88	449.74	161.65	162.33
			449.74	.		161.65
<u>Error in latitude -----</u>			.14			
<u>Error in departure -----</u>					.68	

GENERAL DESCRIPTION.

The portion of T.20 N., R.5 W., surveyed under this assignment is composed of high mountainous land, with a general eastward slope, draining into Chino Wash, which traverses the northeast cor. of the township.

The township is covered with a heavy growth of pinyon and cedar timber and a dense undergrowth of oak brush, catclaw and greasewood. The soil is of a rocky limestone formation but supports a good growth of grass.

There is no running water, springs or settlers in this portion of the township and no indication of oil or mineral.

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 Range 5 West, and surveyed all those parts or portions of the Subdivision lines of

Township 20 North, Range 5 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 Jumeca, Alaska
Date Nov 29 1921

Otis Ross
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 Range 5 West, and of the survey of part (completion) of the Subdivision lines of

Township 20 North, Range 5 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 resurvey and surveys they describe, are hereby approved.

Frank O. Smith
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