

*Eng*  
*1*

# FIELD NOTES

OF THE RESURVEY OF THE

part of the South boundary,

the West boundary,

and part of the North boundary,

AND OF THE SURVEY OF

part (completion) Of the Subdivision lines of

Township 18 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 March 19, 1920

Resurvey and Survey completed March 26, 1920

3493

# INDEX DIAGRAM.

*Township* ..... *Range* .....

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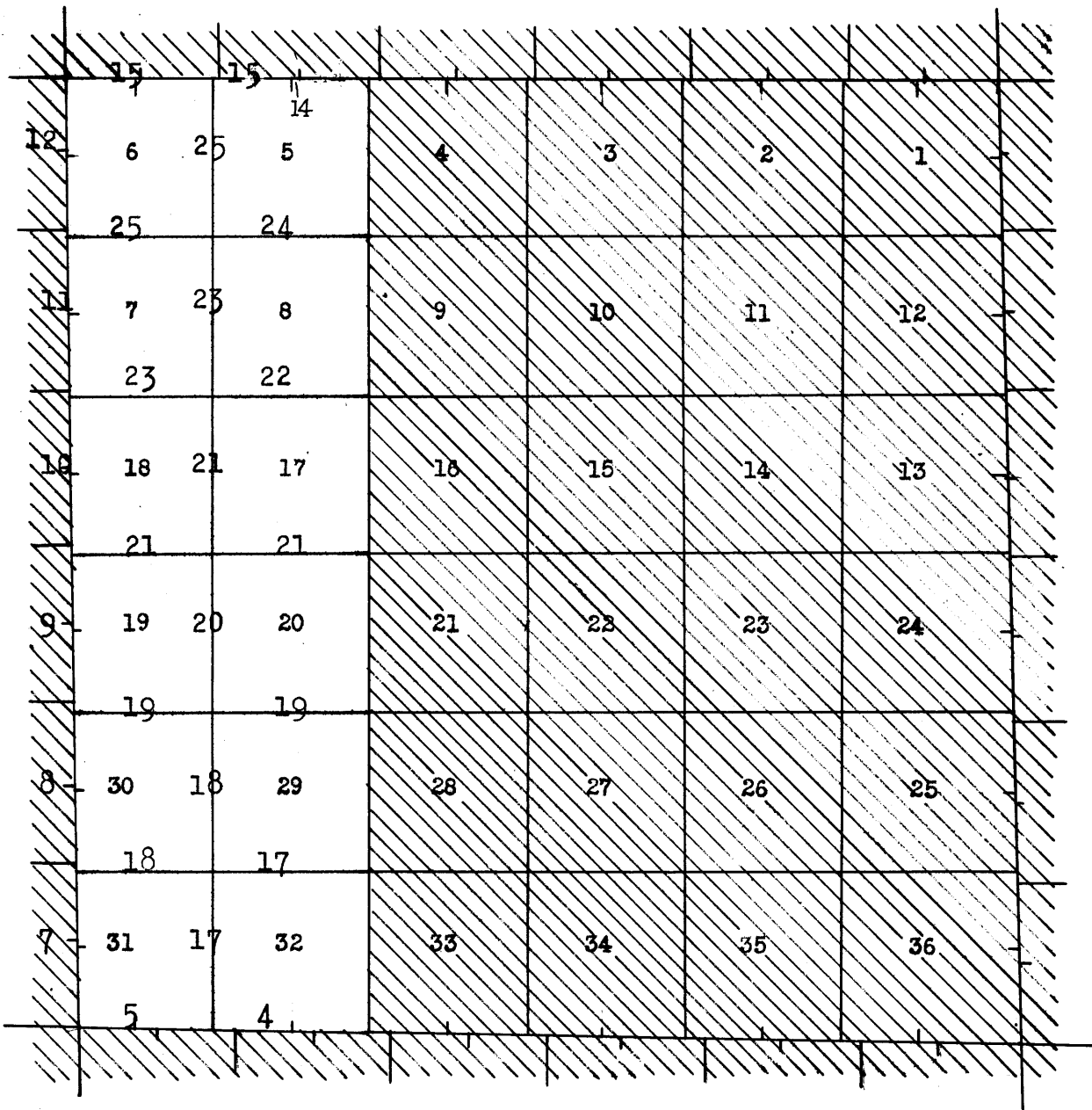
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BOOK 3493

3493

Index Diagram

Township 18 North, Range 4 West,



- Surveys executed under this Group.
- Resurveys executed under this Group.
- Accepted surveys.
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Date Diagram

Township 18 North, Range 4 West,

BOOK 3493

	3-26-20	3-24-20	3-24-20				
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On the above diagram:-  
red lines indicate surveys, and  
blue lines indicate resurveys,  
 executed by Otis Ross, U. S. Surveyor,  
 on dates shown thereon,  
 and black lines indicate accepted surveys.

Survey commenced March 19, 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.

March 18, 1920. I examine the adjustments 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 NE. cor. of sec. 30, T. 18 N., R. 4 W., Gila and Salt River Base and Meridian, Arizona, in latitude  $34^{\circ}55'N.$ , and longitude  $112^{\circ}43'W.$ , at 7h.42.7m.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 =  $1^{\circ}21'55''$ .

March 19, 1920: At 7h.30m., a.m., l.m.t., 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  $34^{\circ}55'N.$  on the latitude arc;  $0^{\circ}29'S.$  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 latitude arc unchanged, I observe the sun on the meridian; the resulting reading of the decl. arc is  $0^{\circ}25\frac{1}{2}'S.$ , which agrees with the computed decl. of the sun.

At 4h.30m. p.m., l.m.t., with the lat. arc unchanged, I set off  $0^{\circ}20'S.$  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 a portion of south bdy. of Township 18 North, Range 4 West

Chains.

The township line bet. Ts. 17 and 18 N., R. 4 W., was surveyed in 1871, by S. W. Foreman, U. S. D. S. The line was resurveyed in 1916 by Fred Mensch, U. S. S., and no other retracement or resurvey is of record. In said resurvey, all the original cors. were reported lost, and two sets of corners were reestablished on the line. All corners referring to areas in T. 17 N., R. 4 W., and the corners for areas in secs. 33, 34, 35 and 36, T. 18 N., R. 4 W., were reestablished.

As it is now necessary to reestablish the cor. of secs. 31, and 32, and the 1/4 sec. cors. of said secs., the same are reestablished by chaining N. 89°26'W., from each of the Mensch reestablished cors. referring to areas in secs. 5 and 6, T. 17 N., R. 4 W., such distances as will produce 40 ch. intervals westerly from the Mensch reestablished cor. of secs. 32 and 33. A re chaining of the S. boundaries of secs. 31 and 32 was not made.

In the following notes, the distances which were actually chained are so noted, and with the descriptions of the reestablished cors. referring to areas in secs. 31 and 32, and the Mensch corners from which they were measured are copied from Surveyor Ross's record, while all other data presented is based upon the approved and accepted notes of the said Mensch resurvey. The distances not chained are described as "from record," or "computed from record" as the case may be, and the items of topography are omitted.

The above described method of procedure was adopted to present the resurvey in proper form.

From the reestablished cor. of secs. 32 and 33, N. 89°26'W., on S. bdy. of sec. 32.

30.66 (From record) The reestablished 1/4 sec. cor. of sec. 5, T. 17 N., R. 4 W., which is an iron post, 1 in. in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by two properly marked bearing trees, as follows:

- A pinyon, 14 ins. in diam., S. 41°E., 57 lks. dist.
- A cedar, 12 ins. in diam., S. 19°W., 102 lks. dist.

40.00 Thence chain measurement, N. 89°26'W., 9.34 chs. to (Computed from record), Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for reestablished 1/4 sec. cor. of sec. 32 only, marked on brass cap,

1/4 S 32

1920

from which,

- A pinyon, 6 ins. in diam., brs. N. 14°E., 45 lks. dist., marked 1/4 S 32 BT.

- A pinyon, 12 ins. in diam., brs. N. 26 1/2°W., 24 lks. dist., marked 1/4 S 32 BT.

70.36 (From record) The reestablished cor. of secs. 5 and 6, T. 17 N., R. 4 W., which is an iron post 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by two properly marked bearing trees as follows:

- A pinyon, 8 ins. in diam., S. 16°E., 43 lks. dist.
- A pinyon, 8 ins. in diam., S. 54°W., 25 lks. dist.

80.00 Thence chain measurement, N. 89°26'W., 9.64 chs., to (Computed from record), Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 31 and 32 only, marked on brass cap,

T18N | R4 W  
S31 | S32

S 6

T17N R4 W  
1920

from which,

Resurvey of a portion of South bdy. of T.18 N., R. 4 W. 5

Chains.

A pinyon, 10 ins. in diam., brs. N. 11 1/2° E., 24 lks.  
 dist., marked T18N R4W S32 BT.  
 A pinyon, 10 ins. in diam., brs. N. 74 1/4° W., 15 lks.  
 dist., marked T18N R4W S31 BT.

30.06

From reestablished cor. of secs. 31 and 32,  
 N. 89° 26' W., on S. bdy. of sec. 31.  
 (Computed from record) The reestablished 1/4 sec. cor. of  
 sec. 6, T. 17 N., R. 4 W., which is an iron post, 1 in. in  
 diam., projecting 10 ins. above ground, firmly set,  
 properly marked on brass cap, and witnessed by two pits,  
 one each E. and W. of cor. 3 ft. dist., and mound of  
 earth, S. of cor. No bearing trees.

40.00

Thence, chain measurement, N. 89° 26' W., 9.94 chs., to  
 (Computed from record) Set an iron post, 3 ft. long, 1  
 in. in diam., 26 ins. in the ground, for reestablished  
 1/4 sec. cor., of sec. 31 only, marked on brass cap,

1/4 S 31

1920

from which,

A cedar, 14 ins. in diam., brs. N. 47 1/2° W., 244  
 lks. dist., marked 1/4 S 31 BT.

69.28

No other trees being available, dig pits, 18x18x12 ins.,  
 E. and W. of cor. 3 ft. dist.  
 (Computed from record) The reestablished cor. of Ts. 17  
 and 18 N., Rs. 4 and 5 W., 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  
 properly marked bearing trees, as follows:

- A pinyon, 6 ins. in diam., N. 7° E., 20 lks. dist.
- A cedar, 8 ins. in diam., S. 80° E., 33 lks. dist.
- A pinyon, 6 ins. in diam., S. 68° W., 19 lks. dist.
- A pinyon, 7 ins. in diam., N. 32° W., 19 lks. dist.

The above description is copied from Surveyor Ross's  
 record, obtained by him in the resurvey of the West  
 bdy. of T. 18 N., R. 4 W., hereinafter described.

## 6. Resurvey of the West bdy. of Township 18 North, Range 4 West.

Chains.

The west boundary of T. 18 N., R. 4 W., was surveyed by O. H. Case, U. S. D. S. in 1872. The portion of the line between secs. 31 and 36 was resurveyed in 1916 by Fred Mensch, U. S. Surveyor.  
No other retracement or resurvey is of record.

Retracement for Resurvey.

- From the reestablished cor. of T. 17 and 18 N., R. 4 and 5 W., hereinbefore described,  
N. 0° 24' E., on a random line, on E. bdy. of sec. 36.
- 41.18 Intersect the reestablished  $\frac{1}{4}$  sec. cor. of secs. 31 and 36, hereinafter described.  
The true course and dist. of S.  $\frac{1}{2}$  of E. bdy. of sec. 36 are therefore N. 0° 24' E., 41.18 chs., which agrees with record.
- 41.18 Thence,  
N. 0° 24' E. on a random line on E. bdy. of sec. 36 (N. 0°).  
Intersect the reestablished cor. of secs. 25, 30, 31 and 36, hereinafter described.  
The true course and dist. of N.  $\frac{1}{2}$  of E. bdy. of sec. 36 are therefore N. 0° 24' E., 41.18 chs., with agrees with record.

- 
- From reestablished cor. of secs. 25, 30, 31 and 36,  
North, on a random line, on E. bdy. of sec. 25.
- 40.41 Fall 12 lks. E. of the original  $\frac{1}{4}$  sec. cor. of secs. 25 and 30, hereinafter described.  
True course and dist. of S.  $\frac{1}{2}$  of E. bdy. of sec. 25 are therefore N. 0° 10' W., 40.41 chs.
- 39.95 Thence,  
North, on a random line on E. bdy. of sec. 25 (N. 0°).  
Fall 164 lks. E. of the original cor. of secs. 19, 24, 25 and 30, hereinafter described.  
True course and dist. of N.  $\frac{1}{2}$  of E. bdy. of sec. 25 are therefore N. 2° 21' W., 39.98 chs.

- 
- From original cor. of secs. 19, 24, 25 and 30,  
North, on a random line, on E. bdy. of sec. 24.
- 40.32 Fall 95 lks. E. of the original  $\frac{1}{4}$  sec. cor. of secs. 19 and 24, hereinafter described.  
True course and dist. of S.  $\frac{1}{2}$  of E. bdy. of sec. 24, are therefore N. 1° 21' W., 40.33 chs.
- 39.93 Thence  
North, on a random line on E. bdy. of sec. 24 (N. 0°).  
Fall 112 lks. E. of the original cor. of secs. 13, 18, 19 and 24, hereinafter described.  
True course and dist. of N.  $\frac{1}{2}$  of E. bdy. of sec. 24 are therefore, N. 1° 30' W., 39.95 chs.

- 
- From original cor. of secs. 13, 18, 19 and 24,  
North, on a random line on E. bdy. of sec. 13.
- 40.32 Fall 83 lks. E. of the original  $\frac{1}{4}$  sec. cor. of secs. 13 and 18, hereinafter described.  
True course and dist. of S.  $\frac{1}{2}$  of E. bdy. of sec. 13 are therefore, N. 1° 11' W., 40.33 chs.
- 39.65 Thence,  
North, on a random line on E. bdy. of sec. 13 (N. 0°).  
Fall 10 lks. W. of the original cor. of secs. 7, 12, 13 and 18, hereinafter described.  
True course and dist. of N.  $\frac{1}{2}$  of E. bdy. of sec. 13 are therefore N. 0° 9' E., 39.65 chs.
-



Resurvey of West bdy. of Township 18 North, Range 4 West.

7

Chains.

40.00 From original cor. of secs. 7, 12, 13 and 18, North; on a random line, on E. bdy. of sec. 12. Find no evidence of the original  $\frac{1}{4}$  sec. cor. of secs. 7 and 12. Set temp. cor. Continue line and measurement.

79.40 Fall 12 lks. E. of the original cor. of secs. 1, 6, 7 and 12, hereinafter described. True course and dist. of E. bdy. of sec. 12 are therefore N. 0° 5' W., 79.40 chs.

39.00 From original cor. of secs. 1, 6, 7 and 12, North, on a random line, on E. bdy. of sec. 1. Fall 98 lks. E. of the original  $\frac{1}{4}$  sec. cor. of secs. 1 and 6, hereinafter described. True course and dist. of S.  $\frac{1}{2}$  of E. bdy. of sec. 1 are therefore N. 1° 20' W., 39.01 chs.

40.07 Thence, North, on a random line, bet. secs. 1 and 6. Fall 31 lks. E. of the cor. of Ts. 18 and 19 N., Rs. 4 and 5 W., hereinafter described. True course and dist. of N.  $\frac{1}{2}$  of E. bdy. of sec. 1 are therefore, N. 0° 27' W., 40.07 chs.

RESURVEY.

From the reestablished cor. of Ts. 17 and 18 N., Rs. 4 and 5 W., hereinbefore described, N. 0° 24' E., on a true line, on W. bdy. of sec. 31. Over rolling land, thru. scattering timber and undergrowth. Ascend SW. slope.

3.00 Low spur, slopes SW. Descend over NW. slope.

12.30 Wash, 5 lks. wide, course NE. Ascend gradually over rolling E. slope.

39.78 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for  $\frac{1}{4}$  sec. cor. of sec. 31 only, marked on brass cap,

S31

1920

41.18 Raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high, E. of cor. Continue over rolling land; ascend gradually of SE. slope. Intersect the reestablished  $\frac{1}{4}$  sec. cor. of secs. 31 and 36, which is an iron post, 1 in. in diam., 12 ins. above ground, firmly set, properly marked on brass cap; witnessed by two bearing trees as follows:  
 A cedar, N. 51° E., 138 lks. dist., marked  $\frac{1}{4}$ S31BT.  
 A pinyon, N. 40° W., 74 lks. dist., marked  $\frac{1}{4}$ S30BT.  
 Change this cor. to refer to sec. 36 only, by obliterating the marks S31 from E. half of brass cap; and also, the marks 31 from the bearing tree NE. of cor.

Ascend 18 ft., over E. slope.

40.38 Descend 40 ft., over NE. slope.

53.85 Wash, 10 lks. wide, course NE. Ascend 30 ft., over SE. slope.

58.33 Spur, slopes E. Descend 48 ft., over NE. slope.

64.80 Leave rolling, and enter level land.

69.48 Road brs. E. and W.

72.00 Wash, 20 lks. wide, course W. Leave level, and enter rolling land. Ascend 25 ft., over S. slope, to

79.78 Point of intersection of Sectional Correction Line, surveyed due west from cor. of secs. 28, 29, 32 and 33, T. 18 N., R. 4 W., as hereinafter described, at which point, Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 30 and 31, marked on brass cap,

T18N	T18N
R5W	S30
S36	S31
	R4W

1920

8

## Resurvey of W. bdy. of Township 18 North, Range 4 West.

Chains.

from which,

A cedar, 8 ins. in diam., brs. N. 37° E., 117 lks.  
dist., marked T18N R4W S30 CC BT.

A cedar, 8 ins. in diam., brs. S. 71½° E., 521 lks.  
dist., marked T18N R4W S31 CC BT.

Land, rolling and level.

Soil, gravelly loam, 3rd rate.

Timber, scattering cedar and pinyon.

Undergrowth, scattering oak brush.

Good grass.

N. 0° 24' E., on a true line, on W. bdy. of sec. 30.

Over rolling land, thru scattering timber and undergrowth.  
Ascend slightly over S. slope, to

2.58

Intersect the reestablished cor. of secs. 25, 30, 31 and 36,  
which is an iron post, 3 ins. in diam., projecting 12  
ins. above ground, firmly set, properly marked on  
brass cap, witnessed by a mound of stone, W. of cor., and  
two bearing trees, as follows:

A cedar, 8 ins. in diam., S. 21½° E., 178 lks.  
dist., marked T18N R4W S31 BT.

A cedar, 8 ins. in diam., N. 20° W., 187 lks.  
dist., marked T18N R5W S25 BT.

Change this cor. to refer to secs. 25 and 30 only, by oblit-  
erating the marks S31 from E. half of brass cap, and  
the marks on the SE. bearing tree.

Thence,

N. 0° 10' W., on a true line, continuing measurement of W.  
bdy. of sec. 30.

32.34

Over rolling land. Ascend 170 ft., over S. slope.  
Rim of mesa, brs. E and W. Thence over slightly rolling  
top of mesa, with little change in elevation.

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in  
the ground, for ¼ sec. cor. of sec. 30 only, marked on  
brass cap,

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

1920

from which,

A cedar, 6 ins. in diam., brs. N. 29½° E., 67 lks.  
dist., mark ¼ S 30 BT.

A pinyon, 12 ins. in diam., brs. S. 80½° E., 72 lks.  
dist., marked ¼ S 30 BT.

42.99

Continue over slightly rolling top of mesa.  
Intersect the original ¼ sec. cor. of secs. 25 and 30,  
which is a pinyon tree, 10 ins. in diam., properly marked.  
No trace of original bearing tree. This tree cor. has fal-  
len down. At base of tree set an iron post 3 ft. long,  
1 in. in diam., 20 ins. in the ground, for ¼ sec. cor. of  
sec. 25 only, marked on brass cap,

$$\frac{1}{4} S 25$$

1920

from which,

A cedar, 14 ins. in diam., brs. S. 28½° W., 18 lks.  
dist., marked ¼ S 25 BT.

A cedar, 12 ins. in diam., brs. N. 29½° W., 17 lks.  
dist., marked ¼ S 25 BT.

Thence,

N. 2° 21' W., on a true line, continuing measurement of W. bdy.  
of sec. 30.

80.03

Over rolling land, ascending gradually over top of mesa.  
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in  
the ground, for cor. of secs. 19 and 30, marked on  
brass cap,

Resurvey of W.bdy. of Township 18 North, Range 4 West.

chains.

T18N	T18N
S19	S19
R5W	S30
S25	R4W
1920	

from which,

A pinyon, 6 ins. in diam., brs. N. 43° E., 82 lks. dist., marked T18N R4W S19 BT.

A cedar, 8 ins. in diam., brs. S. 19½° E., 113 lks. dist., marked T18N R4W S30 BT.

Land, rolling. Soil, gravelly loam, 3rd rate.

Timber, scattering pinyon and cedar.

Undergrowth, scattering oak brush.

Good grass.

N. 2° 21' W., on a true line, on W. bdy. of sec. 19.

Over level land, on top of mesa, thru dense timber and undergrowth.

2.94 Intersect the original cor. of secs. 19, 24, 25 and 30, which is a pinyon tree, 6 ins. in diam., properly marked and witnessed by a pinyon tree, 8 ins. in diam., S. 26½° W., 6 lks. dist., marked T18N R4W S25 BT.

At base of tree cor., set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 24 and 25 only, marked on brass cap,

T18N	T18N
S24	R4W
S25	S19
R5W	
1920	

from which,

A pinyon, 8 ins. in diam., brs. S. 21½° W., 35 lks. dist., marked T18N R5W S25 BT.

A cedar, 20 ins. in diam., brs. N. 41¼° W., 51 lks. dist., marked T18N R5W S24 BT.

This cor. is at N. rim of mesa, bearing NW. and SE.

Thence,

N. 1° 21' W., on true line, continuing measurement of W. bdy. of sec. 19.

Leave top of mesa; descend 52 ft. over N. slope.

15.41 Wash, 30 lks. wide, course SE. Ascend 43 ft. over SE. slope.

22.87 Spur, slopes SE. Descend gradually over NE. slope, to

40.01 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor. of sec. 19 only, marked on brass cap,

¼ S19
-------

1920

from which,

A cedar, 10 ins. in diam., brs. N. 76½° E., 58 lks. dist., marked ¼ S 19 BT.

A cedar, 8 ins. in diam., brs. S. 50° E., 12 lks. dist., marked ¼ S 19 BT.

Descend 20 ft., over NE. slope, to

43.27 Intersect the original ¼ sec. cor. of secs. 19 and 24, which is a wooden post, properly marked, firmly set in ground, and mound of stone, and witnessed by a cedar tree, 20

ins. in diam., N. 88° W., 72 lks. dist., marked ¼ S B T.

Alongside old wood post, set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor. of sec. 24 only, marked on brass cap,

¼ S24
-------

1920

from which,

10. Resurvey of W. bdy. of Township 18 North, Range 4 West.

chains.

68.00. A cedar, 7 ins. in diam., brs. S. 21 $\frac{3}{4}$ ° W., 148 lks.  
 80.03 dist., marked  $\frac{1}{2}$  S 24 BT.  
 Change marking on old NW. bearing tree to read:  $\frac{1}{2}$  S 24 BT.  
 Thence,  
 N. 1° 30' W., on a true line, continuing measurement of W. bdy.  
 of sec. 19.  
 Over rolling S. slope, ascending gradually.  
 Ascend 30 ft., over S. slope, to  
 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the  
 ground, for cor. of secs. 18 and 19 only, marked on brass  
 cap,

T18N	R18N
R5W	S18
S24	S19
	R4W

1920

from which,  
 A cedar, 14 ins. in diam., brs. N. 80° E., 104 lks.  
 dist., marked T18N R4W S18 BT.  
 A cedar, 24 ins. in diam., brs. S. 87 $\frac{3}{4}$ ° E., 58 lks.  
 dist., marked T18N R4W S19 BT.

Land, level and rolling. Soil, gravelly loam, 3rd rate.  
 Timber, dense cedar and pinyon.  
 Undergrowth, dense oak brush. Good grass.

3.19 N. 1° 30' W., on a true line, on W. bdy. of sec. 18.  
 Over rolling land, thru. dense timber and undergrowth.  
 Ascend 20 ft., over S. slope, to  
 Intersect the original cor. of secs. 13, 18, 19 and 24, which  
 is a wooden post, properly marked and firmly set in  
 ground and mound of stone, and witnessed by one bearing  
 tree, as follows:

A pinyon, 14 ins. in diam., N. 78° W., 58 lks.  
 dist., marked T18N R5W S13 BT.

No trace of the SE. bearing tree described in record.  
 Alongside old wooden post, 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,

T18N	T18N
S13	R4 W
S24	S18
R5W	

1920

Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
 Thence,  
 N. 1° 11' W., on true line, continuing measurement of W. bdy. of  
 sec. 18.

8.14 Over mountainous land, thru. dense timber and undergrowth.  
 13.92 Ascend 45 ft., over S. slope.  
 27.82 Ridge, brs. E. and W.; descend 110 ft., over N. slope, to  
 30.29 Descend 95 ft., over NW. slope.  
 38.46 Wash, 30 lks. wide, course NE. Asc. 30 ft., over SE. slope.  
 40.01 Point of spur, slopes E. Desc. 50 ft., over NE. slope, to  
 (40.00 chs. northing), Set an iron post, 3 ft. long, 1 in. in  
 diam., 26 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor.  
 of sec. 18 only, marked on brass cap,

$\frac{1}{2}$  S18

1920

from which,  
 A pinyon, 10 ins. in diam., brs. N. 41° E., 25 lks.  
 dist., marked  $\frac{1}{4}$  S 18 BT.  
 A pinyon, 10 ins. in diam., brs. S. 13 $\frac{1}{2}$ ° E., 23 lks.  
 dist., marked  $\frac{1}{4}$  S 18 BT.

43.52 Descend 20 ft., over NE. slope, to  
 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 13 and 18, which  
 is a volcanic stone, 14x6x6 ins. above ground, firmly  
 set, properly marked and witnessed by one bearing tree,  
 as follows:

A pinyon, 8 ins. in diam., brs. N. 81 $\frac{3}{4}$ ° W., 15 lks.  
 dist., marked  $\frac{1}{4}$  S BT.

Resurvey of W. bdy. of Township 18 North, Range 4 West.

Chains.

Alongside old stone, set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor. of sec. 13 only, marked on brass cap.

1/4 S13

1920

from which,

A pinyon, 12 ins. in diam., brs. S. 83 3/4° W., 55 lks. dist., marked 1/4 S 13 BT.

Change marking on original bearing tree to read, 1/4 S13 BT. Thence,

N. 0° 09' E., on a true line, continuing measurement of W. bdy. of sec. 18.

Over mountainous land, thru dense timber and undergrowth. Descend 28 ft., over N. slope.

44.52

Foot of descent, brs. SE. and NW. Leave mountainous, and enter level land in valley, brs. E. and W.

53.50

Top of bank, brs. E. and W. Descend 15 ft.

55.82

Walnut Creek, with stream of water, 60 lks. wide, 4 ins. deep, course E. Ascend 15 ft.

58.40

Top of bank, brs. E. and W. Thence over level land.

61.43

Leave valley, brs. E. and W. Enter mountainous land. Asc. 34 ft., over SE. slope.

63.40

Spur, slopes E. Desc. 20 ft., over NE. slope.

64.87

Gulch, course E. Ascend 76 ft., over S. slope.

76.04

Spur, slopes E. Descend 40 ft., over NE. slope, to

80.01

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 7 and 18 only, marked on brass cap.

T18N | T18N  
S5W | S 7  
S13 | S18  
R4W

1920

from which,

A cedar, 20 ins. in diam., brs. N. 45° E., 173 lks. dist., marked T18N R4W S7 BT.

A cedar, 15 ins. in diam., brs. S. 20 1/4° E., 265 lks. dist., marked T18N R4W S18 BT.

Land, rolling, level and mountainous.

Soil, gravelly loam, 3rd rate.

Timber, dense cedar and pinyon.

Undergrowth, dense oak brush. Good grass.

N. 0° 09' E., on a true line, on W. bdy. of sec. 7.

Over mountainous land, thru dense timber and undergrowth. Descend 15 ft., over NE. slope, to

.87

Wash, 20 lks. wide, course E. Ascend 64 ft., over S. slope, to

3.16

Intersect the original cor. of secs. 7, 12, 13 and 18, which is a granite stone, 18x14x10 ins. above ground, firmly set and properly marked. No accessories.

Alongside old stone, set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bed rock, supported in a mound of stone, for cor. of secs. 12 and 13 only, marked on brass cap.

T18N | T18N  
S12 | R4W  
S13 | S 7  
R5W

1920

from which,

A cedar, 14 ins. in diam., S. 43 3/4° W., 12 lks. dist., marked T18N R5W S13 BT.

A pinyon, 6 ins. in diam., N. 20 1/4° W., 87 lks. dist., marked T18N R5W S12 BT.

Thence,

N. 0° 05' W., on a true line, continuing measurement of W. bdy. of sec. 7.

Over mountainous land, thru dense timber and undergrowth. Ascend 57 ft., over S. slope.

12 Resurvey of West bdy. of Township 18 North, Range 4 West.

Chains.

18.12 Spur, slopes SE. Descend 80 ft., over NE. slope.  
28.00 Wash, 50 lks. wide, course SE. Ascend 60 ft., over S. slope, to  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the  
ground, for 1/4 sec. cor. of sec. 7 only, marked on brass  
cap,

1/4 S 7  
1920

from which,

A pinyon, 10 ins. in diam., brs. N. 50° E., 118 lks.  
dist., marked 1/4 S 7 BT.  
A pinyon, 6 ins. in diam., brs. S. 47 3/4° E., 127 lks.  
dist., marked 1/4 S 7 BT.

Ascend 10 ft., over S. slope, to  
42.86 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for 1/4 sec. cor. of sec. 12 only, marked on  
brass cap,

1/4 S 12  
1920

from which,

A pinyon, 6 ins. in diam., brs. S. 79° W., 46 lks.  
dist., marked 1/4 S 12 BT.  
A pinyon, 6 ins. in diam., brs. N. 36° W., 49 lks.  
dist., marked 1/4 S 12 BT.

This cor. is on top of spur, sloping SE.  
Descend 15 ft., over NE. slope.

45.55 Wash, 10 lks. wide, course SE. Ascend 90 ft., over S. slope.  
50.24 Spur, slopes SE. Descend 16 ft., over NE. slope, to  
68.00 Foot of descent, brs. NW and SE. Enter level valley, brs.  
E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in  
the ground, for cor. of secs. 6 and 7 only, marked on  
brass cap,

T18N | T18N  
R5W | S 6  
S12 | S 7  
R4W  
1920

from which,

A pinyon, 10 ins. in diam., brs. N. 17 1/4° E., 247 lks.  
dist., marked T18N R4W S6 BT.  
A pinyon, 10 ins. in diam., brs. S. 51° E., 256 lks.  
dist., marked T18N R4W S7 BT.

Land, mountainous and level.  
Soil, gravelly loam, 3rd rate.  
Timber, dense cedar and pinyon.  
Undergrowth, dense oak brush and catclaw.  
Good grass.

N. 0° 05' W., on a true line, on W. bdy. of sec. 6.  
Over level land in valley, brs. E. and W., thru dense timber  
and undergrowth.

2.56 Intersect the original cor. of secs. 1, 6, 7 and 12, which  
is a limestone, 10x12x3 ins. above ground, firmly set,  
properly marked and witnessed by 4 pits, one each NE.,  
SE., SW. and NW. of cor.  
Alongside old stone, 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,

T18N | T18N  
S 1 | R4W  
S12 | S 6  
R5W  
1920

from which,

A cedar, 12 ins. in diam., brs. S. 57 1/2° W., 619  
lks. dist., marked T18N R5W S12 BT.

West bdy. of Township 18 North, Range 4 West.

Chains.

17.54  
40.01

A cedar, 25 ins. in diam., brs. N. 31 $\frac{1}{4}$ ° W., 456 lks. dist., marked T18N R5W S1 3T.  
 Obliterate all trace of pits E. of line,  
 This cor. is at N. edge of valley, bearing E. and W. Thence,  
 N. 1° 20' W., on a true line, continuing the measurement of W. bdy. of sec. 6.  
 Leave level and enter mountainous land.  
 Ascend 50 ft., over S. slope, to  
 Ascend 187 ft., over SW. slope, to  
 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. of sec. 6 only, marked on brass cap,

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

1920

41.57

Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, E. of corner.  
 Ascend 10 ft., over SW. slope, to  
 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 1 and 6, which is a sandstone, 14x8x6 ins., properly marked and firmly set in a mound of stone. No accessories.  
 Alongside old stone, 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. of sec. 1 only, marked on brass cap,

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

1920

53.47

Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
 Thence,  
 N. 0° 27' W., on a true line, continuing measurement of W. bdy. of sec. 6.  
 Over mountainous land, thru. dense timber and undergrowth.  
 Ascend 85 ft., over S. slope.

69.63

Spur, slopes SE.  
 Descend 190 ft., over NE. slope.

81.64

Gulch, course NE.  
 Ascend 20 ft., over SE. slope, to  
 Intersect the corner of Ts. 18 and 19 N., Rs. 4 and 5 W., reconstructed by Thomas W. Bates, 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 alongside the original corner, a limestone 36x24x4 ins. properly marked and witnessed by four properly marked bearing trees, as follows:

- A cedar, 12 ins. in diam., N. 6° E., 14 lks. dist.
- A cedar, 16 ins. in diam., S. 45° E., 22 lks. dist.
- A pine, 6 ins. in diam., S. 77 $\frac{1}{2}$ ° W., 70 lks. dist.
- A pine, 8 ins. in diam., N. 84 $\frac{1}{2}$ ° W., 170 lks. dist.

Land, level and mountainous.  
 Soil, rocky and gravelly loam, 4th rate.  
 Timber, dense cedar and pinyon.  
 Undergrowth, dense oak brush and catclaw.  
 Good grass.

## 14 Resurvey of a portion of North bdy. of Township 18 North Range 4 West

Chains.

The North boundary of T.18 N., R.4 W. was surveyed in 1872, by O.H. Case, U.S.D.S. The last  $4\frac{1}{2}$  miles was resurveyed by Fred Mensch, U.S. Surveyor, and William R. Johnston, U.S. Transitman, in 1916.

Retracement for Resurvey.

From the cor. of Ts. 18 and 19 N., Rs. 4 and 5 W., here inbefore described,

N.  $89^{\circ}54'$  E., on a random line, on S. bdy. of sec. 31.

35.99 Fall 27 lks. S. of the original  $\frac{1}{4}$  sec. cor. of secs. 6 and 31, hereinafter described.

True course and dist. of W.  $\frac{1}{2}$  of S. bdy. of sec. 31, are therefore, S.  $89^{\circ}28'$  W., 35.99 chs.

Thence,

N.  $89^{\circ}54'$  E., on a random line, on S. bdy. of sec. 31.

39.99 Fall 29 lks. S. of the original cor. of secs. 5, 6, 31 and 32, hereinafter described.

True course and dist. of E.  $\frac{1}{2}$  of S. bdy. of sec. 31, are therefore, S.  $89^{\circ}29'$  W., 39.99 chs.

N.  $89^{\circ}54'$  E., on a random line, on S. bdy. of sec. 32.

40.15 Fall 79 lks. N. of the reestablished  $\frac{1}{4}$  sec. cor. of sec. 32, hereinafter described.

True course and dist. of W.  $\frac{1}{2}$  of S. bdy. of sec. 32 are therefore, N.  $88^{\circ}58'$  W., 40.16 chs.

RESURVEY.

The  $\frac{1}{4}$  sec. cor. of secs. 32, T.19 N., R.4 W., reestablished by Fred Mensch, U.S.S. in 1916, is an iron post, 1 in. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, for sec. 32 only, and witnessed by two bearing trees as follows:

A pinyon, 5 ins. in diam., N.  $56^{\circ}$  E., 40 lks. dist., marked  $\frac{1}{4}$  S 32 BT.

A juniper, 10 ins. in diam., N.  $18^{\circ}$  W., 274 lks. dist., marked  $\frac{1}{4}$  S 32 BT.

Thence,

N.  $88^{\circ}58'$  W., on a true line, on part of E.  $\frac{1}{2}$  of N. bdy. of sec. 5.

Over rolling land, thru, scattering timber and undergrowth. Descend slightly over NW. slope, to

.63 Wash, 20 lks. wide, course NE. Ascend 22 ft., over NE. slope to

2.08 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for  $\frac{1}{4}$  sec. cor. of sec. 5 only, marked on brass cap,

$\frac{1}{4}$  S 5

1920

from which,

A cedar, 6 ins. in diam., brs. S.  $0^{\circ}15'$  E., 59 lks. dist., marked  $\frac{1}{4}$  S 5 BT.

A pine, 8 ins. in diam., brs. S.  $8\frac{1}{2}^{\circ}$  W., 32 lks. dist., marked  $\frac{1}{4}$  S 5 BT.

Land, rolling. Soil, gravelly, 3rd rate.

Timber, scattering cedar and pine.

Undergrowth, scattering oak brush and catclaw.

Good grass.



Resurvey of portion of North bdy. of Township 18 North, Range 4 West. 15

Chains.

From  $\frac{1}{4}$  sec. cor. of sec. 5,  
 N.  $88^{\circ}58'W.$ , on a true line on N. bdy. of sec. 5 ( $W. \frac{1}{2}$ ).  
 Over rolling land, thru. scattering timber and undergrowth.  
 Ascend 30 ft., over NE. slope, to  
 Spur, slopes NW. Descend 80 ft., over W. slope.  
 Wash, 20 lks. wide, course NE. Ascend 80 ft., over E. slope.  
 E. rim of flat topped spur, brs. NW and SE. Thence across  
 level top of spur, sloping NW,  
 Intersect the original cor. of secs. 5, 6, 31 and 32, which  
 is a granite stone, 14x6x5 ins. above ground, firmly  
 set. properly marked and witnessed by a cedar tree, 14  
 ins. in diam., N.  $32^{\circ}E.$ , 20 lks. dist., marked T19N R4W  
 S32. 3T  
 Alongside old stone, set an iron post, 3 ft. long, 2 ins.  
 in diam., 24 ins. in the ground, for cor. of secs. 31  
 and 32 only only, marked on brass cap,

T19N R 4W  
 S31 S32  
 S 5  
 T18N R 4 W  
 1920

from which,  
 A cedar, 10 ins. in diam., brs. N.  $19^{\circ}W.$ , 218 lks.  
 dist., marked T19N R24W S31 3T

This cor. is at W. rim of flat topped spur, brs. NW. and SE.  
 Thence,  
 S.  $89^{\circ}29'W.$ , on a true line, continuing measurement of W.  
 $\frac{1}{2}$  of N. bdy. of sec. 5.

Over rolling land, thru. scattering timber and undergrowth.  
 Descend 17 ft., over W. slope, to  
 40.01 Intersect the subdivision line, bet. secs. 5 and 6, T. 18  
 N., R. 4 W., surveyed N.  $0^{\circ}2'W.$  as hereinafter described,  
 at which point of intersection,  
 Set an iron post, 3 ft. long, 2 ins. in diam., 18 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,

T19N R 4W  
 S31  
 S 6 S 5  
 T18N R 4W  
 C C  
 1920

Raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.  
 Land, rolling.  
 Soil, gravelly, 3rd rate.  
 Timber, scattering cedar and pinyon.  
 Undergrowth, scattering oak brush and catclaw.  
 Good grass.

From closing cor. of secs. 5 and 6,  
 S.  $89^{\circ}29'W.$ , on true line, on N. bdy. of sec. 6.  
 Over mountainous and rolling land, thru. scattering timber  
 and undergrowth.  
 Descend 75 ft., over W. slope.  
 21.07 Gulch, course NE. Ascend 45 ft. over E. slope, to  
 38.06 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 6 and 31, which  
 is a sandstone, 12x10x6 ins. above ground, firmly set,  
 properly marked and witnessed by two pits, one each  
 E. and W. of cor. 3 ft. dist. Alongside old post, set an  
 iron post, set an iron post, 3 ft. long, 1 in. in diam.,  
 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor. of sec. 31 only,  
 marked on brass cap,

## 16 Resurvey of portion of North bdy. of Township 18 North, Range 4 West.

Chains.

1/4 S 31

1920

from which,

- A cedar, 12 ins. in diam., brs. N.  $50\frac{1}{4}^{\circ}$  E., 376 lks.  
dist., marked  $\frac{1}{4}$  S 31 BT.
- A cedar, 14 ins. in diam., brs. N.  $35\frac{1}{4}^{\circ}$  W., 472 lks.  
dist., marked  $\frac{1}{4}$  S 31 BT.

Thence,

S.  $89^{\circ}28'$  W., on a true line, continuing measurement of N. bdy. of sec. 6.

Ascend 10 ft., over E. 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. of sec. 6 only, marked on brass cap,1/4 S 6

1920

from which,

- A cedar, 35 ins. in diam., brs. S.  $55^{\circ}$  E., 135 lks.  
dist., marked  $\frac{1}{4}$  S 6 BT.
- Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.
- Ascend 98 ft. over E. slope.

59.26

Spur, slopes NE. Descend 12 ft., over NW. slope.

64.06

Gulch, course NE. Ascend 104 ft., over SE. slope, to

74.05

Intersect the cor. of Ts. 18 and 19 N., Rs. 4 and 5 W., here-  
inbefore described.

Land, mountainous and rolling.

Soil, gravelly loam, 3rd rate.

Timber, scattering cedar and pinyon.

Undergrowth, scattering oak brush and catclaw.

Good grass.

Survey of part(completion)of Subdivision of T.18 N. R.4 W.

Chains.

The east four ranges of sections in this township were surveyed in 1916, by Fred Mensch, U.S.S. and Wm.R. Johnston, U.S.T.

The following notes describe the survey of the subdivision lines of the remainder of the township.

From the reestablished cor.of secs.31 and 32 on S.bdy.of Tp.,hereinbefore described,

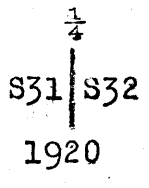
N.0°09' W.(on a true line, 1/4 sec. of sec. 31) on a true line, bet.secs.31 and 32:

Over rolling land, thru. scattering timber and undergrowth, along E. side of fence, bearing N.and S., thru. entire mile. Ascend 15 ft.

7.20 Descend 100 ft.,over NE.slope to 1/4 sec.cor.  
35.41 Road, brs.NE. and SW.

40.00 (40.00 chs. southing from cor. of secs. 29, 30, 31 and 32, hereinafter described).

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



Raise a mound of stone, 2 ft.base, 1 1/2 ft.high, W.of cor. Descend 10 ft.,over NE.slope.

44.94 Wash, 10 lks.wide, course NE. Ascend 50 ft.,over SE.slope.

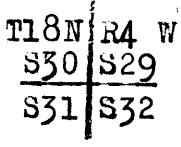
53.00 Spur, slopes E. Descend 40 ft.,over NE.slope.

60.78 Road, brs.E.and W.

73.18 Wash, 12 lks.wide, course E. Ascend 30 ft.,over SE.slope, to

80.57 Intersect Sectional Correction Line, 80.00 chs.W.of the cor.of secs. 28, 29, 32 and 33.

At point of intersection, 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,



from which,

A pinyon, 10 ins. in diam., brs.S. 61 1/2° W., 153 lks. dist., marked T18N R4W S31 BT.

Raise a mound of stone, 2 ft. base, 1 1/2 ft.high, W.of cor. This cor.is under a fence bearing N.and S.

Land, rolling.

Soil, gravelly loam, 3rd rate.

Timber, scattering pinyon and cedar.

Undergrowth, scattering oak brush.

Good grass.

The original cor.of secs.28, 29, 32 and 33 is an iron post, 2 ins.in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by four pits, one in each sec. 5 1/2 ft. dist., and mound of earth, W.of cor. No bearing trees.

Thence,

West, on Sectional Correction Line, bet. secs.29 and 32.

Over rolling land, thru. scattering timber and undergrowth.

Descend 25 ft.,over rolling SE.slope, to

Gulch, course S. Ascend 25 ft.,over SE.slope, to

(this point), Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec.cor., marked on brass cap,

25.73  
40.00

18. Survey of part (Completion) of Subdivision lines of T.18N.R4W.

Chains.

S 29  
S 32  
1920

from which,

A pinyon, 10 ins. in diam., brs. S. 3° E., 81 lks. dist., marked  $\frac{1}{4}$  S 32 BT.

A pinyon, 8 ins. in diam., brs. N. 18 $\frac{1}{2}$ ° W., 187 lks. dist., marked  $\frac{1}{4}$  S 29 BT.

Ascend 57 ft., over E. slope.

42.97 Spur, slopes SE. Descend 42 ft., over SW. slope.

62.98 Gulch, course SE. Ascend 81 ft., over NE. slope.

75.14 Spur, slopes SE. Descend 56 ft., over SW. slope, to

80.00 The cor. of secs. 29, 30, 31 and 32.

Land, rolling.

Soil, gravelly loam, 3rd rate.

Timber, scattering pinyon and cedar.

Undergrowth, scattering oak brush.

Good grass.

From the cor. of secs. 29, 30, 31 and 32,

West, on Sectional Correction Line, bet. secs. 30 and 31.

Over rolling land, thru. scattering timber and undergrowth.

Ascend 25 ft., over SE. slope.

1.46 Spur, slopes S. Descend 20 ft., over SW. slope.

7.00 Foot of slope, from spur. Thence over rolling S. slope, with little change in elevation.

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 30  
S 31  
1920

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

68.18 Ascend 55 ft., over rolling S. slope, to

Intersect W. bdy. of Tp., 2.58 chs. S. 0° 24' W. from the cor. of secs. 25 and 36, T. 18 N., R. 5 W.

At point of intersection, set an iron post for closing cor. as hereinbefore described in notes of resurvey of W. bdy. of Tp.

Land, rolling.

Soil, gravelly loam, 3rd rate.

Timber, scattering pinyon and cedar.

Undergrowth, scattering oak brush.

Good grass.

From cor. of secs. 29, 30, 31 and 32,

N. 0° 02' W., bet. secs. 29 and 30.

Over rolling land, thru. scattering timber and undergrowth, along E. side of fence, bearing N. and S.

Ascend 42 ft., over S. slope.

10.00 Rim of bench abrs. E. and W. Thence over slightly rolling top of bench.

35.00 Wash, 10 lks. wide, course SE. Ascend 17 ft., over S. 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 30 | S 29  
1920

from which,

A cedar, 8 ins. in diam., brs. N. 39 $\frac{1}{2}$ ° E., 143 lks. dist., marked  $\frac{1}{4}$  S 29 BT.

A cedar, 14 ins. in diam., brs. N. 17 $\frac{3}{4}$ ° W., 322 lks. dist., marked  $\frac{1}{4}$  S 30 BT.

Survey of part (Completion) of Subdivision lines of T.18 N. R.4 W. 19

Chains.

- 63.43 Leave scattering, and enter dense timber. Leave bench. Ascend 30 ft., over S. slope.
- Ridge, brs. E. and W. Descend 55 ft., over N. slope to sec. cor.
- 79.38 Fence cor. brs. W. 75 lks. dist., from which fence extends S. and NE.
- 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,

T18N	R4 W
S19	S20
S30	S29
1920	

- from which;
- A cedar, 12 ins. in diam., brs. N. 71 $\frac{1}{4}$ ° E., 353 lks. dist., marked T18N R4W S20 BT.
  - A cedar, 15 ins. in diam., brs. S. 72° E., 237 lks. dist., marked T18N R4W S29 BT.
  - A cedar, 16 ins. in diam., brs. S. 81 $\frac{1}{2}$ ° W., 554 lks. dist., marked T18N R4W S30 BT.
  - A cedar, 30 ins. in diam., brs. N. 10 $\frac{1}{2}$ ° W., 461 lks. dist., marked T18N R4W S19 BT.

Land, rolling.  
 Soil, gravelly loam, 3rd rate.  
 Timber, pinyon and cedar, scattering and dense as noted.  
 Undergrowth, scattering oak brush and catclaw.  
 Good grass.

- 40.00 East, on a random line, bet. secs. 20 and 29.
- 80.02 Set temp.  $\frac{1}{4}$  sec. cor.
- Fall 14 lks. S. of the original cor. of secs. 20, 21, 28 and 29, which is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, witnessed by four pits, one in each sec. 5 $\frac{1}{2}$  ft. dist., and mound of earth W. of cor. No bearing trees.

- Thence, S. 89° 54' W., on a true line, bet. secs. 20 and 29.
- Over rolling land, thru scattering timber and undergrowth.
- Ascend 35 ft., over gentle NE. slope, to
- 30.00 Descend 23 ft., over NW. slope.
- 35.00 Ascend 23 ft., over E. slope, to
- 40.01 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 20
	S 29
1920	

- from which,
- A cedar, 14 ins. in diam., brs. N. 81° 45' E., 82 lks. dist., marked  $\frac{1}{4}$  S 20 BT.
  - A cedar, 10 ins. in diam., brs. S. 53 $\frac{1}{2}$ ° W., 31 lks. dist., marked  $\frac{1}{4}$  S 29 BT.

- Ascend 30 ft., over SE. slope.
- 50.00 Spur, slopes NE. Descend 50 ft., over rolling N. slope to sec. cor.

- 78.22 Fence, brs. NE. and SW.
- 80.02 The cor. of secs. 19, 20, 29 and 30.

Land, rolling.  
 Soil, gravelly loam, 3rd rate.  
 Timber, scattering cedar and pinyon.  
 Undergrowth, scattering oak brush and catclaw.  
 Good grass.

- 40.00 West, on a random line, bet. secs. 19 and 30.
- 69.99 Set temp.  $\frac{1}{4}$  sec. cor.
- Fall 9 lks. N. of the cor. of secs. 19 and 30.

20 Survey of part (Completion) of Subdivision lines of T.18 N.R.4.W.

Chains.

on W. bdy. of Tp., hereinbefore described.

Thence,

N. 39° 55' E., on a true line, bet. secs. 19 and 30.

Over slightly rolling top of mesa, thru scattering timber and undergrowth.

10.00 Rim of mesa, brs. NW. and SE. Descend 25 ft., over NE. slope, to

15.00 Thence over level land.

29.99 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 19  
S 30  
1920

from which,

A cedar, 14 ins. in diam., brs. N. 27° E., 48 lks. dist., marked  $\frac{1}{4}$  S 19 BT.

A cedar, 14 ins. in diam., brs. S. 24° E., 57 lks. dist., marked  $\frac{1}{4}$  S 30 BT.

Descend 30 ft., over slightly rolling NE. slope.

51.00 Wash, 20 lks. wide, course NE. Thence over slightly rolling N. slope, with little change in elevation.

69.99 The cor. of secs. 19, 20, 29 and 30.

Land, rolling and level.

Soil, gravelly loam, 3rd rate.

Timber, scattering cedar and pinyon.

Undergrowth, scattering oak brush and catclaw.

Good grass.

N. 0° 02' W., bet. secs. 19 and 20.

Over rolling land, thru scattering timber and undergrowth. Descend 10 ft., over N. slope.

3.70 Wash, 15 lks. wide, course NE. Ascend 92 ft., over SE. 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,

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

from which,

A cedar, 22 ins. in diam., brs. S. 40° E., 89 lks. dist., marked  $\frac{1}{4}$  S 20 BT.

A cedar, 20 ins. in diam., brs. S. 61 $\frac{1}{2}$ ° W., 134 lks. dist., marked  $\frac{1}{4}$  S 19 BT.

Ascend 27 ft., over S. slope.

42.17 Spur, slopes SE. Descend 55 ft., over NE. slope.

61.92 Foot of descent. Ascend 16 ft., over S. slope.

68.91 Spur, slopes SE. Descend 20 ft., over NE. slope.

79.40 Wash, 10 lks. wide, course E. Ascend slightly 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,

T18N | R4W  
S18 | S17  
S19 | S20  
1920

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

Soil, gravelly loam, 3rd rate.

Timber, scattering cedar and pinyon.

Undergrowth, scattering oak brush and catclaw.

Good grass.

Part (Completion) of the Subdivision Lines of T.18 N. R.4 W. 21

Chains.

N.89°54'E., on a random line, bet. secs.17 and 20.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
 79.92 Fall 16 lks.S.of the original cor.of secs.16,17,20 and 21, which is an iron post, 2 ins.in diam.,projecting 12 ins. above ground,firmly set, properly marked, and witnessed by four properly marked bearing trees as follows:  
 A juniper,10 ins.in diam.,N.82°E.,54 lks.dist.  
 A pinyon,10 ins.in diam.,S.72 $\frac{1}{4}$ °E.,99 lks.dist.  
 A juniper,10 ins.in diam.,S.79 $\frac{1}{4}$ °W.,10 lks.dist.  
 A juniper,20 ins.in diam.,N.28°W.,36 lks.dist.

Thence,  
 S.89°47'W., on a true line, bet.secs.17 and 20.  
 39.00 Over level land,thru.scatterng timber and undergrowth. Wash,10 lks.wide,course NE.  
 39.96 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 17  
 S 20  
 1920

from which,  
 A cedar,10 ins.diam, brs.S.12 $\frac{1}{4}$ °E.,586 lks.dist.,marked  $\frac{1}{4}$ S 20 BT.  
 A cedar,14 ins.diam, brs.N.4°W., 490 lks.dist.,marked  $\frac{1}{4}$ S 17 BT.

Continue over level land,thru.scatterng timber and undergrowth.  
 79.92 The cor.of secs.17,18,19 and 20.  
 Land,level.  
 Soil,gravelly loam,3rd rate.  
 Timber, scattering cedar and pinyon.  
 Undergrowth, scattering oak brush.  
 Good grass.

S.89°55'W., on a random line, bet. secs.18 and 19.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
 71.94 Intersect the W. bdy.of Tp., at the cor.of lished cor. of secs.18 and 19, hereinbefore described.

Thence,  
 N.89°55'E., on a true line, bet. secs.18 and 19.  
 Over rolling land,thru. dense timber and undergrowth; ascend 23 ft. over SW.slope.

14.67 Spur,slopes SE. Descend 40 ft.,over E.slope,to  
 31.94 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 18  
 S 19  
 1920

from which;  
 A pinyon,12 ins. in diam.,brs.N.68 $\frac{1}{2}$ °E.,77 lks. dist.,marked  $\frac{1}{4}$ S 18 B T.  
 A pinyon,6 ins.in diam.,brs.S.5 $\frac{1}{2}$ °E.,46 lks. dist.,marked  $\frac{1}{4}$ S 19 BT.

Descend 25 ft.,over E.slope.  
 42.00 Leave dense,and enter scattering timber, brs.NE.and SW.  
 48.00 Enter draw,course E. Descend slightly and same,to  
 71.94 The cor.of secs. 17,18,19 and 20.  
 Land,rolling.  
 Soil,gravelly loam,3rd rate.  
 Timber, scattering cedar and pinyon.  
 Undergrowth, scattering oak brush and catclaw.  
 Good grass.

N.0°02'W., bet. secs.17 and 18.  
 Over level land,brs.E.and W., thru.scatterng timber and undergrowth.  
 10.00 Leave level,and enter rolling land. Asc.60 ft.over S.slope.

22 Part (Completion of Subdivision lines of T. 18 N. R. 4 W. T. 33)

Chains.

- 15.00 Leave scattering, and enter dense timber, brs. E. and W.
- 22.44 Spur, slopes NE. Descend 90 ft., over N. slope, to
- 40.00 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,

S18 | S17

1920

from which,

- A cedar, 12 ins. in diam., brs. N.  $15\frac{1}{2}^{\circ}$  E., 49 lks. dist., marked  $\frac{1}{4}$  S 17 BT.
- A cedar, 6 ins. in diam., brs. N.  $89\frac{1}{2}^{\circ}$  W., 75 lks. dist., marked  $\frac{1}{4}$  S 18 BT.

Thence over level land, to

- 44.00 Wash, 10 lks. wide, course E. Leave level, and enter mountainous land. Ascend 50 ft., over S. slope.
- 55.00 Ridge, brs. NE and SW. Descend 175 ft., over NW. slope.
- 73.22 Wash, 10 lks. wide, course NW. Ascend 15 ft., over NW. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 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,

T18N | R4W

S 7 | S 8

S18 | S17

1920

from which,

- A pinyon, 8 ins. in diam., brs. N.  $69\frac{1}{2}^{\circ}$  E., 140 lks. dist., marked T18N R4W S8 BT.
- A cedar, 6 ins. in diam., brs. S.  $19\frac{1}{4}^{\circ}$  E., 101 lks. dist., marked T18N R4W S17 BT.
- A cedar, 10 ins. in diam., brs. S.  $37\frac{1}{4}^{\circ}$  W., 95 lks. dist., marked T18N R4W S18 BT.
- A cedar, 24 ins. in diam., brs. N.  $50\frac{1}{2}^{\circ}$  W., 35 lks. dist., marked T18N R4W S7 BT.

Land, level, rolling and mountainous.

Soil, gravelly loam, 3rd rate.

Timber, cedar and pinyon, scattering and dense, as noted.

Undergrowth, scattering oak brush and catclaw.

N.  $89^{\circ}47'$  E., on a random line, bet. secs. 8 and 17.

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

- 80.00 Fall 7 lks. N. of the original cor. of secs. 8, 9, 16 and 17, which is an iron post; 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by four properly marked bearing trees as follows:

- A juniper, 12 ins. in diam., N.  $55\frac{3}{4}^{\circ}$  E., 19 lks. dist.
- A juniper, 10 ins. in diam., S.  $58\frac{3}{4}^{\circ}$  E., 32 lks. dist.
- A pinyon, 12 ins. in diam., S.  $39\frac{1}{4}^{\circ}$  W., 12 lks. dist.
- A juniper, 15 ins. in diam., N.  $38\frac{1}{2}^{\circ}$  W., 61 lks. dist.

Thence,

S.  $89^{\circ}50'$  W., on a true line, bet. secs. 8 and 17.

Over rolling land, thru. dense timber and undergrowth. Descend 110 ft., over rolling NE. slope, to

- 39.60 Wash, 10 lks. wide, course N. Ascend slightly to
- 40.00 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 8

S 17

1920

from which,

- A cedar, 14 ins. in diam., brs. N.  $45^{\circ}$  E., 203 lks. dist., marked  $\frac{1}{4}$  S 8 BT.
- A pinyon, 6 ins. in diam., brs. S.  $26\frac{3}{4}^{\circ}$  W., 120 lks. dist., marked  $\frac{1}{4}$  S 17 BT.



Part(Completion)of Subdivision lines of T 18 N., R. 4 W.

Chains.

Ascend 55 ft., over E. slope, to  
 44.20 Spur, slopes NE. Descend 110 ft., over NE. slope.  
 62.87 Wash, 25 lks. wide, course NE. Ascend 40 ft., over NE. slope.  
 79.10 Descend 25 ft., over NW. slope, to  
 80.00 The cor. of secs. 7, 8, 17 and 18.  
 Land, rolling.  
 Soil, gravelly loam, 3rd rate.  
 Timber, dense pinyon and cedar.  
 Undergrowth, dense oak brush and catclaw.  
 Good grass.

-----  
 S. 39° 55' W., on a random line, bet. secs. 7 and 18.  
 40.00 Set temp. 1/4 sec. cor.  
 72.70 Fall 2 lks. N. of the cor. of secs. 7 and 18 on  
 W. bdy. of Tp., hereinbefore described.  
 Thence,  
 N. 89° 54' E., on a true line, bet. secs. 7 and 18.  
 Over rolling land, thru scattering timber and undergrowth,  
 along S. side of wash, course E.  
 5.00 Cross same wash, course SE. from W. Ascend 50 ft., over SW.  
 slope.  
 15.00 Rim of mesa, brs. SE. and NW. Thence over level top of  
 mesa, to  
 32.70 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the  
 ground, for 1/4 sec. cor., marked on brass cap,

1/4 S 7  
 S 18  
 1920

from which,  
 A pinyon, 7 ins. in diam., brs. N. 1 1/2° E., 105 lks.  
 dist., marked 1/4 S 7 BT.  
 A pinyon, 8 ins. in diam., brs. S. 49° E., 57 lks.  
 dist., marked 1/4 S 18 BT.  
 From this cor., A.P. No. 4 of H.E.S. No. 353, brs. S. 46° 45' E.,  
 8.24 chs. dist., and which is a granite stone, 10x10x8  
 ins. above ground, firmly set and properly marked.  
 Leave level top of mesa, and descend 62 ft., over SE. slope  
 to Walnut Creek.

47.84 Road, brs. NE. and SW.  
 58.82 Walnut Creek, 150 lks. wide, stream of water, 50 lks. wide,  
 1 ft. deep, course NE. Ascend 12 ft., over N. slope, to  
 67.96 Wash, 15 lks. wide, course NW. Ascend 18 ft., over NW. slope,  
 to  
 72.70 The cor. of secs. 7, 8, 17 and 18.  
 Land, rolling and level.  
 Soil, gravelly loam, 3rd rate.  
 Timber, scattering cedar and pinyon, and scattering wal-  
 nut along creek.  
 Undergrowth, scattering oak brush.  
 Good grass.

-----  
 N. 0° 02' W., bet. secs. 7 and 8.  
 Over rolling land, thru dense timber and undergrowth,  
 Descend 50 ft., over NW. slope.  
 8.28 Walnut Creek, 170 lks. wide with stream of water 70 lks.  
 wide, 6 ins. deep, course SE. Ascend 35 ft., over S.  
 slope.  
 15.72 Road, brs. NE. and SW.  
 23.73 Spur, slopes E. Descend 10 ft., over N. slope.  
 29.92 Gulch, course SE. Ascend 40 ft., over S. slope.  
 33.40 Spur, slopes SE. Descend 10 ft., over N. slope, to  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
 the ground, for 1/4 sec. cor., marked on brass cap,

1/4 S 7 | S 8  
 1920

## 24 Part (Completion) of Subdivision lines of T.18 N., R.4 W.

Chains.

- from which,  
 A cedar, 8 ins. in diam., brs. S. 07° E., 67 lks. dist.,  
 marked  $\frac{1}{4}$  S 8 BT.  
 A cedar, 7 ins. in diam., brs. S. 34 $\frac{1}{2}$ ° W., 50 lks. dist.,  
 marked  $\frac{1}{4}$  S 7 BT.  
 Descend 41 ft., over NE. slope.  
 47.45 Gulch, course SE. Ascend 60 ft., over SE. slope.  
 57.60 Spur, slopes SE. Descend 44 ft., over NE. slope.  
 73.86 Wash, 10 lks. wide, course SE. Thence over level land, 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,

T18N	R4W
S 6	S 5
S 7	S 8

1920

- from which,  
 A cedar, 24 ins. in diam., brs. N. 53 $\frac{1}{2}$ ° E., 631 lks.  
 dist., marked T18N R4W S5 BT.  
 A cedar, 30 ins. in diam., brs. S. 62 $\frac{1}{2}$ ° E., 572 lks.  
 dist., marked T18N R4W S8 BT.  
 A cedar, 18 ins. in diam., brs. S. 76 $\frac{1}{2}$ ° W., 508 lks.  
 dist., marked T18N R4W S7 BT.  
 A cedar, 40 ins. in diam., brs. N. 2° W., 161 lks.  
 dist., marked T18N R4W S6 BT.  
 Land, rolling and level.  
 Soil, gravelly loam, 3rd rate.  
 Timber, dense pinyon and cedar, and scattering walnut  
 along creek.  
 Undergrowth, dense oak brush and catclaw.  
 Good grass.

- N. 89° 50' E., on a random line, bet. secs. 5 and 8.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.84 Fall 9 lks. S. 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, 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, 18 ins. in diam., N. 64 $\frac{1}{2}$ ° E., 103 lks.  
 dist.,  
 A juniper, 12 ins. in diam., N. 71 $\frac{1}{2}$ ° W., 210 lks.  
 dist.  
 From this cor., the NE. cor. (No. 3) of H.E.S. No. 354, brs.  
 S. 5° 25' E., 17.68 chs. dist.  
 Thence,  
 S. 89° 40' W., on a true line, bet. secs. 5 and 8.  
 Over rolling land, thru. dense timber and undergrowth.  
 Ascend slightly to  
 7.20 Spur, slopes SE. Descend 53 ft., over SW. slope.  
 18.15 Wash, 10 lks. wide, course SE. Ascend 115 ft., over NE. 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

- from which,  
 A cedar, 12 ins. in diam., brs. N. 36° E., 27 lks.  
 dist., marked  $\frac{1}{4}$  S 5 BT.  
 A cedar, 6 ins. in diam., brs. S. 10° W., 24 lks.  
 dist., marked  $\frac{1}{4}$  S 8 BT.  
 Ascend 50 ft., over NW. slope.  
 47.41 Spur, slopes SE. Descend 93 ft., over SW. slope.  
 64.84 Foot of descent, brs. NW. and SE. Leave rolling and enter  
 level land.  
 79.84 The cor. of secs. 5, 6, 7 and 8.

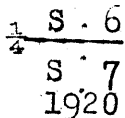
Part (Completion) of Subdivision lines of T.18 N. R.4 W.

Chains.

Land, mountainous, rolling and level.  
Soil, gravelly loam, 3rd rate.  
Timber, dense cedar and pinyon.  
Undergrowth, dense oak brush and catclaw.  
Good grass.

40.00 S. 89°54'W., on a random line, bet. secs. 6 and 7.  
Set temp. 1/4 sec. cor.  
72.82 Fall 8 lks. S. of the cor. of secs. 6 and 7  
on W. bdy. of Tp., hereinbefore described.

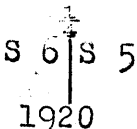
Thence,  
N. 89°58'E., on a true line, bet. secs. 6 and 7.  
Over level and slightly rolling land, thru. scattering  
timber and undergrowth.  
32.82 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in  
the ground, for 1/4 sec. cor., marked on brass cap,



from which,  
A cedar, 30 ins. in diam., brs. S. 68 1/4° E., 88 lks.  
dist. marked 1/4 S 7 BT.  
A cedar, 14 ins. in diam., brs. N. 67° W., 100 lks.  
dist. marked 1/4 S 6 BT.

72.82 The cor. of secs. 5, 6, 7 and 8.  
Land, level and slightly rolling.  
Soil, gravelly loam, 3rd rate.  
Timber, scattering cedar and pinyon.  
Undergrowth, scattering oak brush and catclaw.  
Good grass.

5.00 N. 0°02'W., on a true line, bet. secs. 5 and 6.  
Over level land, thru. scattering timber and undergrowth.  
Leave level and enter rolling land. Ascend 98 ft., over  
S. slope.  
16.50 S. rim of mesa, brs. E. and W. Thence over slightly rolling  
top of mesa.  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in  
the ground, for 1/4 sec. cor., marked on brass cap,



from which,  
A pinyon, 8 ins. in diam., brs. S. 9 1/4° E., 192 lks. dist.  
marked 1/4 S 5 BT.  
A pinyon, 10 ins. in diam., brs. S. 70 1/4° W., 154 lks.  
marked 1/4 S 6 BT.

52.19 Continue over level and slightly rolling top of mesa.  
Gulch, course E.  
66.78 N. rim of mesa, brs. SE. and NW. Leave top of mesa. Descend  
50 ft., over NE. slope.  
73.94 Gulch, course W. from SE. Ascend 40 ft., over SW. slope,  
to

82.25 Intersect the N. bdy. of Tp., 1.93 chs. S. 89°29'W., from  
the cor. of secs. 31 and 32.  
At point of intersection, set 2-in. iron post for closing  
cor. of secs. 5 and 6, as hereinbefore described.  
Land, level and rolling.  
Soil, gravelly loam, 3rd rate.  
Timber, scattering cedar and pinyon.  
Undergrowth, scattering oak brush and catclaw.  
Good grass.

Boundaries of the portion of Township 18 North, Range 4 West, surveyed under Group 104.

Latitudes, Departures and Closing Errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	N. 89° 26' W.	149.28	1.48			149.28
West boundary,	N. 0° 24' E.	82.36	82.36		.57	
	N. 0° 10' W.	40.41	40.41			.12
	N. 2° 21' W.	39.98	39.95			1.64
	N. 1° 21' W.	40.33	40.32			.95
	N. 1° 36' W.	39.95	39.93			1.12
	N. 1° 11' W.	40.33	40.32			.83
	N. 0° 09' E.	39.65	39.65		.10	
	N. 0° 05' W.	79.40	79.40			.12
	N. 1° 26' W.	39.01	39.00			.98
	N. 0° 27' W.	40.07	40.07			.31
North Boundary,	N. 89° 28' E.	35.99	.34		35.99	
	N. 89° 29' E.	39.99	.36		39.99	
	S. 83° 58' E.	40.16		.72	40.15	
	S. 89° 38' E.	37.92		.24	37.92	
Subdivisional boundary.	S. 0° 02' E.	401.00		401.00	.23	
	S. 0° 08' E.	81.33		81.33	.19	
Convergency,					.17	
<u>Totals.</u>			483.59	483.29	155.31	155.35
			483.29			155.31
<u>Error in latitude.</u>			.30			
<u>Error in departure.</u>					.04	

GENERAL DESCRIPTION.

The portion of T. 18 N., R. 4 W., surveyed under this assignment consists of rolling foothills, covered with a heavy growth of pinyon and cedar timber, and undergrowth of oak brush, catclaw and greasewood. It is drained by Walnut Creek, which traverses the northern portion flowing in a northeasterly direction, and carries a good stream of water at this time, but is dry in other periods. The soil is a sandy loam, and supports a good growth of grass. There are no indications of oil or mineral. Two homestead entries are located in the Walnut Creek bottom.

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

4-680

FIELD ASSISTANTS.

to Otis Ross, U. S. Surveyor

NAMES.	CAPACITY.
<b>See Book "A"</b>	

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, <sup>re-</sup> surveyed all those parts or portions of the South, West, and North boundaries, and surveyed all those parts or portions of the Subdivision lines of

Township 18 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 <sup>as</sup> 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 Juneau 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 <sup>re-</sup> survey of part of the South and North boundaries, and all of the West boundary, and of the survey of part (completion) of the Subdivision lines

Of Township 18 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, 1919, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys and surveys they describe, are hereby approved.

*Frank P. 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.~~