

285  
C  
Plotted  
+

Subdivisions

BOOK 2958

# FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES OF

FRACTIONAL TOWNSHIP 16½ NORTH, RANGE 18 WEST

2958

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Albert Smith Jr., U.S. Surveyor

and

Ray D. Armstrong, U.S. Transitman

~~In the capacity of U.S. Surveyor~~, under instructions dated December 28, 1914,

issued by the United States Surveyor General to govern surveys included in

Group No. 42, which were approved by the Commissioner of the General Land

Office, January 22, 1915

Survey commenced April 5, 1916

Survey completed April 8, 1916

Executed under assignment  
Instructions dated Nov. 29-1915 and Feb. 2, 1916.

2958

# INDEX DIAGRAM.

Township ..... , Range .....

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

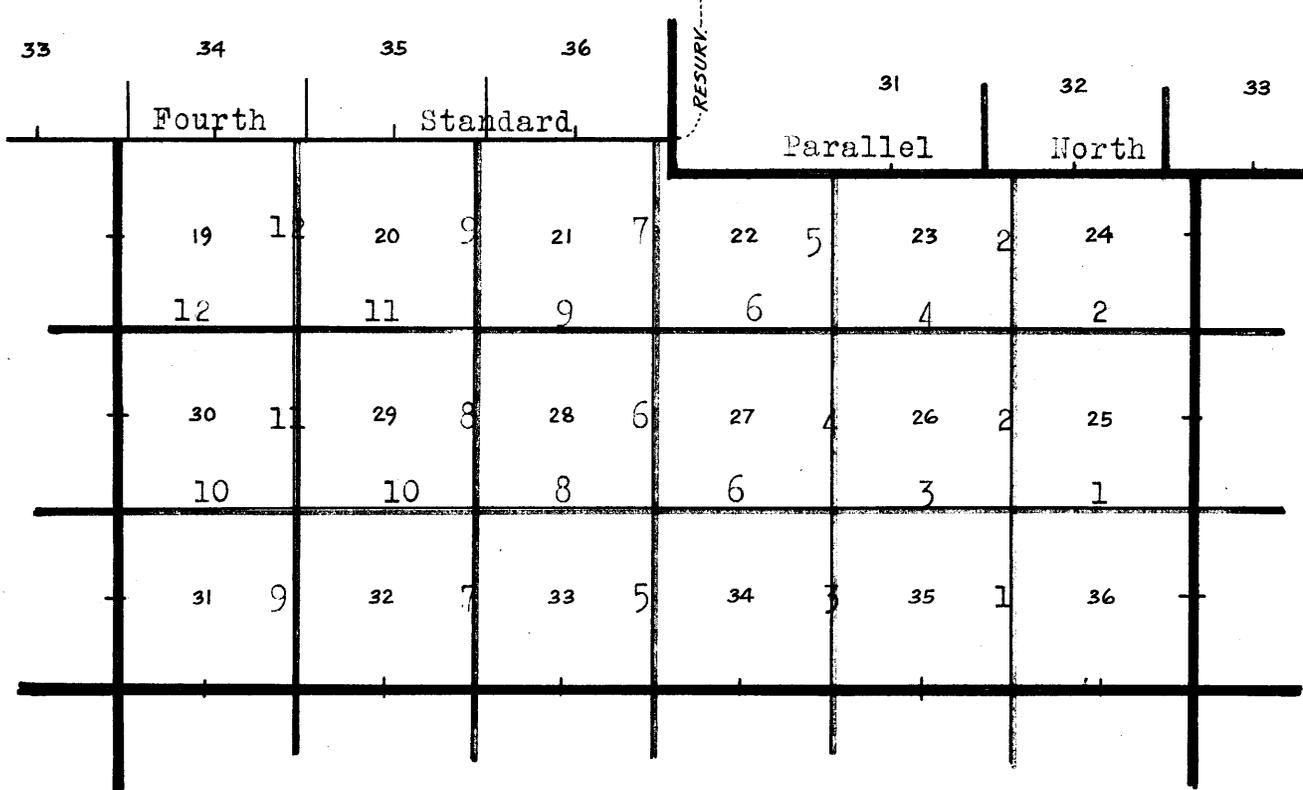
Book "Z"  
 Group 42, Arizona.  
 (Subdivisions)

BOOK 2958

INDEX-DIAGRAM  
 FRACTIONAL TOWNSHIP 16½ NORTH-RANGE 18 WEST

T. 17 N.-R. 18 W.

T. 17 N.-R. 17 W.



- Township Exteriors. Notes in Book "A"
- Subdivision lines surveyed under this Group.
- Lines surveyed or resurveyed under Group 46.
- Accepted surveys.

Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W.

13

Chains.

Survey commenced Apr. 5, 1916, and executed jointly by Albert Smith, Jr., U. S. Surveyor, and Ray D. Armstrong, U. S. Transitman, with Young and Sons' light mountain transits Nos. 8583 and 8396, respectively, with Smith solar attachments. For description of instruments and certificate of approval, see subdivision of T. 13 N., R. 19 W. in book "F". For tests of adjustment, see subdivision of T. 16 N., R. 19 W. in book "S".

In the following field notes, the initials A. S. and R. D. A refer to Albert Smith, Jr., U. S. Surveyor, and Ray D. Armstrong, U. S. Transitman, respectively.

A. S. and R. D. A.

R. D. A.

From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., which is an iron post, established by A. S., as described in Book "A", I run

N.0° 1' W., bet. secs. 35 and 36.

Over level land, through dense undergrowth.

22.10 Center of wash, 80 lks. wide, course W.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

1916 on S. rim;

$\frac{1}{4}$ S35 in W. and

S36 in E. half;

dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

48.30 Wash, 40 lks. wide, course NW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked on brass cap

1916 on S. rim;

T16 $\frac{1}{2}$ N R18W in N. half;

S26 in NW.,

S25 in NE.,

S36 in SE. and

S35 in SW. quadrant;

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

Land, level.

Soil, sandy; 2nd rate.

No timber.

Undergrowth, greasewood, yucca, ocotillo and cacti.

N.89° 57' E., on a random line, bet. secs. 25 and 36.

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

80.00 Intersect E. bdy. of Tp., 7 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, established by A. S., as described in Book "A".

Thence I run

West on a true line, bet. secs. 25 and 36.

Over level land, through dense undergrowth.

16.10 Road, brs. NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

1916 on S. rim;

$\frac{1}{4}$ S25 in N. and

S36 in S. half;

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

80.00 The cor. of secs. 25, 26, 35 and 36.

Land, level.

Soil, sandy; 2nd rate.

No timber.

Undergrowth, greasewood, yucca, ocotillo and cacti.

Apr. 5, 1916.

2. Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W.

Chains.	
	Apr. 6, 1916.
	N.0° 1' W., bet. secs. 25 and 26.
33.90	Over level land, through dense undergrowth.
37.10	Center of wash, 1.20 chs. wide, course NW.
40.00	Road, brs. NW. and SE.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S26 in W. and S25 in E. half;
	dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked on brass cap
	1916 on S. rim; T16 $\frac{1}{2}$ N R18W in N. half;
	S23 in NW.,
	S24 in NE.,
	S25 in SE. and
	S26 in SW. quadrant;
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Land, level desert.
	Soil, sandy; 2nd and 3rd rate.
	No timber.
	Undergrowth, greasewood, yucca, ocotillo and cacti.
	Apr. 6, 1916: At this cor., I set off 6° 33 $\frac{1}{2}$ ' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 48' N.
40.00	East on a random line, bet. secs. 24 and 25.
80.00	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. bdy. of Tp., 2 lks. S. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, established by A. S., as described in Book "A".
	Thence I run
	S.89° 59' W., on a true line, bet. secs. 24 and 25.
	Over level land, through dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	1916 on S. rim;
	$\frac{1}{4}$ S24 in N. and
	S25 in S. half;
	dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
80.00	The cor. of secs. 23, 24, 25 and 26.
	Land, level.
	Soil, sandy; 2nd and 3rd rate.
	No timber.
	Undergrowth, greasewood, yucca, ocotillo and cacti.
10.50	N.0° 1' W., on a true line, bet. frac.secs.23 and 24
26.10	Over level land, through dense undergrowth.
40.00	Wash, 40 lks. wide, course W.
	Center of wash, 70 lks. wide, course W.
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	1916 on S. rim;
	$\frac{1}{4}$ S23 in W. and
	S24 in E. half;
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
48.75	Wash, 40 lks. wide, course NW.
64.69	Intersect Fourth Standard Parallel North, 11.52 chs. E. of

Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W. 3.

chains.

the standard cor. of secs. 31 and 32, T. 17 N., R. 17 W., which is an iron post, 3 ins. diam., properly set, marked and witnessed as described by the Surveyor-General.

At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of fractional secs. 23 and 24, marked on brass cap

1916 on S. rim;  
CC in N. half;  
S24 R18W in SE. and  
S23 T16 $\frac{1}{2}$ N in SW. quadrant;

dig pits, 24 X 18 X 12 ins., SE. and SW. of post, 3 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, level desert.

Soil, sandy; 2nd and 3rd rate.

No timber.

Undergrowth, greasewood, yucca, ocotillo and cacti.

Note; This cor. was incorrectly marked, and the pits incorrectly located in the field.

From the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the Tp., which is an iron post, established by A. S., as described in Book "A", I run

N.0° 1' W., bet. secs. 34 and 35.

Over level land, through dense undergrowth.

24.50 Center of wash, 1.50 chs. wide, course NW.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

1916 on S. rim;  
 $\frac{1}{4}$ S34 in W. and  
S35 in E. half;

dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

72.10 Center of wash, 2 chs. wide, course NW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked on brass cap

1916 on S. rim;  
T16 $\frac{1}{2}$ N R18W in N. half;  
S27 in NW.,  
S26 in NE.,  
S35 in SE. and  
S34 in SW. quadrant;

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

Land, level desert.

Soil, sandy; 2nd and 3rd rate.

No timber.

Undergrowth, greasewood, yucca, ocotillo and cacti.

N.89° 57' E., on a random line, bet. secs. 26 and 35.

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

80.00 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 25, 26, 35 and 36,

Thence I run

S.89° 54' W., on a true line, bet. secs. 26 and 35.

Over level land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

1916 on S. rim;  
 $\frac{1}{4}$ S26 in N. and  
S35 in S. half;

dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

45.20 Wash, 30 lks. wide, course NW.

80.00 The cor. of secs. 26, 27, 34 and 35.

4. Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W.

Chains.	<p>Land, level desert. Soil, sandy; 2nd and 3rd rate. No timber. Undergrowth, greasewood, yucca, ocotillo and cacti. Apr. 6, 1916.</p>
<p>23.70 40.00  78.70 80.00</p>	<p>Apr. 7, 1916. N.0° 1' W., bet. secs. 26 and 27. Over level land, through dense undergrowth. Center of wash, 90 lks. wide, course NW. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap 1916 on S. rim; <math>\frac{1}{4}</math>S27 in W. and S26 in E. half; and raise a mound of stone, 2 ft. base, 1<math>\frac{1}{2}</math> ft. high, W. of cor. Road, brs. NW. and SE. Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked on brass cap 1916 on S. rim; T16<math>\frac{1}{2}</math>N R18W in N. half; S22 in NW., S23 in NE., S26 in SE. and S27 in SW. quadrant; dig pits, 18 X 18 X 12 ins., in each sec., 5<math>\frac{1}{2}</math> ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level desert. Soil, sandy; 2nd and 3rd rate. No timber. Undergrowth, greasewood, yucca, ocotillo and cacti. Apr. 7, 1916: At this cor., I set off 6° 56<math>\frac{1}{2}</math>' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 48' N.</p>
<p>40.00 79.96  39.98  79.96</p>	<p>N.89° 54' E., on a random line, bet. secs. 23 and 26. Set temp. <math>\frac{1}{4}</math> sec. cor. Intersect N. and S. line, 9 lks. S. of the cor. of secs. 23, 24, 25 and 26. Thence I run S.89° 50' W., on a true line, bet. secs. 23 and 26. Over level land, through dense undergrowth. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap 1916 on S. rim; <math>\frac{1}{4}</math>S23 in N. and S26 in S. half; dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3<math>\frac{1}{2}</math> ft. base, 1<math>\frac{1}{2}</math> ft. high, N. of cor. The cor. of secs. 22, 23, 26 and 27. Land, level desert. Soil, sandy; 2nd and 3rd rate. No timber. Undergrowth, greasewood, yucca, ocotillo and cacti.</p>

Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W. 5.

Chains.

N.0° 1' W., on a true line, bet. frac. secs. 22 and 23  
Over level land, through dense undergrowth.

4.60 Wash, 40 lks. wide, course NW.  
22.00 Center of wash, 3 chs. wide, course W.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the  
ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1916 on S. rim;  
 $\frac{1}{4}$ S22 in W. and  
S23 in E. half;  
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high,  
W. of cor.

64.71 Intersect Fourth Standard Parallel North, 28.28 chs. W. of  
the standard  $\frac{1}{4}$  sec. cor. of sec. 31, T. 17 N., R. 17 W.,  
which is an iron post, 1 in. diam., properly set, mark-  
ed and witnessed as described by the Surveyor-General.  
At the point of intersection, set an iron post, 3 ft. long,  
2 ins. diam., 26 ins. in the ground, for closing cor.  
of fractional secs. 22 and 23, marked on brass cap  
1916 on S. rim;  
CC in N. half;  
S23 R18W in SE. and  
S22 T16 $\frac{1}{2}$ N in SW. quadrant;  
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high,  
S. of cor.  
Land, level desert.  
Soil, sandy; 2nd and 3rd rate.  
No timber.  
Undergrowth, greasewood, yucca, ocotillo and cacti.  
Note: This cor. was incorrectly marked in the field.  
April 7, 1916.

Apr. 7, 1916: At 8 hrs. 0 m., a.m., l.m.t., I set off  
34° 46' N. on the lat. arc; 6° 53' N. on the decl. arc;  
and determine a meridian with the solar at the cor. of  
secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., which  
is an iron post, established by A. S., as described in  
Book "A".  
Thence I run  
N.0° 2' W., bet. secs. 33 and 34.  
Over level land, through dense undergrowth.

9.80 Wash, 30 lks. wide, course NW.  
29.50 Center of wash, 3 chs. wide, course NW.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the  
ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1916 on S. rim;  
 $\frac{1}{4}$ S33 in W. and  
S34 in E. half;  
dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.  
dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the  
ground, for cor. of secs. 27, 28, 33 and 34, marked on  
brass cap  
1916 on S. rim;  
T16 $\frac{1}{2}$ N R18W in N. half;  
S28 in NW.,  
S27 in NE.,  
S34 in SE. and  
S33 in SW. quadrant;  
dig pits, 18 X 18 X 12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist.;  
and raise a mound of earth, 4 ft. base, 2 ft. high,  
W. of cor.  
Land, level desert.  
Soil, sandy; 2nd and 3rd rate.  
No timber.  
Undergrowth, greasewood, yucca, ocotillo and cacti.

6.

Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W.

Chains.	N.89° 57' E., on a random line, bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 26, 27, 34 and 35.
	Thence I run
	S.89° 59' W., on a true line, bet. secs. 27 and 34.
	Over level land, through dense undergrowth.
18.50	Center of wash, 3 chs. wide, course NW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	1916 on S. rim;
	$\frac{1}{4}$ S27 in N. and
	S34 in S. half;
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
55.80	"Old Trails" Highway, brs. NE. and SW.
74.00	Center of wash, 3 chs. wide, course NW.
80.00	The cor. of secs. 27, 28, 33 and 34.
	Land, level desert.
	Soil, sandy; 2nd and 3rd rate.
	No timber.
	Undergrowth, greasewood, yucca, ocotillo and cacti.
	N.0° 2' W., bet. secs. 27 and 28.
	Over level land, through dense undergrowth.
4.85	Center of wash, 2 chs. wide, course W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	1916 on S. rim;
	$\frac{1}{4}$ S28 in W. and
	S27 in E. half;
	dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
56.90	Center of wash, 2 chs. wide, course W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked on brass cap
	1916 on S rim;
	T16 $\frac{1}{2}$ N R18W in N. half;
	S21 in NW.,
	S22 in NE.,
	S27 in SE. and
	S28 in SW. quadrant;
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Land, level desert.
	Soil, sandy; 2nd and 3rd rate.
	No timber.
	Undergrowth, greasewood, yucca, ocotillo and cacti.
	N.89° 59' E., on a random line, bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.00	Intersect N. and S. line, at the cor. of secs. 22, 23, 26 and 27.
	Thence I run
	S.89° 59' W., on a true line, bet. secs. 22 and 27.
	Over level land, through dense undergrowth.
3.50	Road, brs. NW. and SE.
24.90	"Old Trails" Highway, brs. NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	1916 on S. rim;
	$\frac{1}{4}$ S22 in N. and
	S27 in S. half;
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Subdivision of Fractional T. 16 1/2 N., R. 18 W. 7.

Chains.

57.10 Center of wash, 80 lks. wide, course NW.  
 80.00 The cor. of secs. 21, 22, 27 and 28.  
 Land, level desert.  
 Soil, sandy; 2nd and 3rd rate.  
 No timber.  
 Undergrowth, greasewood, yucca, ocotillo and cacti.

N.0° 2' W., on a true line, bet. sec.21 and frac.sec.22.  
 Over rolling land, through dense undergrowth.  
 4.50 Center of wash, 1.20 chs. wide, course NW.  
 25.00 Center of wash, 1 ch. wide, course W.  
 34.25 Road, brs. NW. and SE.  
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
 ground, for 1/4 sec. cor., marked on brass cap  
 1916 on S. rim;  
 1/4 S21 in W. and  
 S22 in E. half;  
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,  
 W. of cor.

55.00 Center of wash, 5 chs. wide, course NW.  
 80.10 Center of wash, 60 lks. wide, course NW.  
 82.72 Intersect Fourth Standard Parallel North, 8.10 chs. W. of  
 the standard cor. of Tp. 17 N., R. 18 W. (SE. cor.) which,  
 is a stone, 8 X 10 X 8 ins. above ground, marked and  
 witnessed as described by the Surveyor-General. Beside  
 this stone, is set an iron post, 3 ins. diam., 12 ins.  
 above ground, marked and witnessed as described by the  
 Surveyor-General.  
 At the point of intersection, set an iron post, 3 ft. long,  
 2 ins. diam., 26 ins. in the ground, for closing cor. of  
 sec. 21 and frac. sec. 22, marked on brass cap  
 1916 on S. rim;  
 CC in N. half;  
 S22 R18W in SE. and  
 S21 T16 1/2 N in SW. quadrant;  
 dig pits, 24 X 18 X 12 ins. crosswise on each line,  
 E. and W., 3 ft., and S. of post, 7 ft. dist.; and raise  
 a mound of earth, 4 ft. base, 2 ft. high, S. of cor.  
 Land, rolling.  
 Soil, sandy; 2nd and 3rd rate.  
 No timber.  
 Undergrowth, greasewood, yucca, ocotillo and cacti.  
 Apr. 7, 1916.  
 Note; This cor. was incorrectly marked in the field.

Apr. 8, 1916: At 7 hrs. 30 m., a.m., l.m.t., I set off  
 34° 46' N. on the lat. arc; 7° 15 1/2' N. on the decl. arc;  
 and determine a meridian with the solar at the cor. of  
 secs. 4, 5, 32 and 33, on the S. bdy. of the Tn., which  
 is an iron post, established by A. S., as described in  
 Book "A".  
 Thence I run  
 N.0° 2' W., bet. secs. 32 and 33.  
 Over level land, through dense undergrowth.  
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
 ground, for 1/4 sec. cor., marked on brass cap  
 1916 on S. rim;  
 1/4 S32 in W. and  
 S33 in E. half;  
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.  
 dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft.  
 high, W. of cor.  
 43.10 Center of wash, 3 chs. wide, course W.  
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the  
 ground, for cor. of secs. 28, 29, 32 and 33, marked on  
 brass cap  
 1916 on S. rim;

8. Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W.

Chains.

- T16 $\frac{1}{2}$ N R18W in N. half;  
 S29 in NW.,  
 S28 in NE.,  
 S33 in SE. and  
 S32 in SW. quadrant;  
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high,  
 W. of cor.  
 Land, level desert.  
 Soil, sandy; 2nd and 3rd rate.  
 No timber.  
 Undergrowth, greasewood, yucca, ocotillo and cacti.
- 
- 40.00 N.89° 57' E., on a random line, bet. secs. 28 and 33.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.92 Intersect N. and S. line, 5 lks. S. of the cor. of secs.  
 27, 28, 33 and 34.  
 Thence I run  
 S.89° 55' W., on a true line, bet. secs. 28 and 33.  
 Over level land, through dense undergrowth.  
 39.96 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the  
 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1916 on S. rim;  
 $\frac{1}{4}$ S28 in N. and  
 S33 in S. half;  
 dig pits, 18 X18 X 12 ins., E. and W. of post, 3 ft.  
 dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
 high, N. of cor.  
 79.92 The cor. of secs. 28, 29, 32 and 33.  
 Land, level desert.  
 Soil, sandy; 2nd and 3rd rate.  
 No timber.  
 Undergrowth, greasewood, yucca, ocotillo and cacti.  
 R. D. A.
- 
- A. S.  
 N.0° 2' W., bet. secs. 28 and 29.  
 Over rolling land, through dense undergrowth.  
 8.50 Old road, brs. NW. and SE.  
 9.70 Wash, 25 lks. wide, course SW.  
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the  
 ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1916 on S. rim;  
 $\frac{1}{4}$ S29 in W. and  
 S28 in E. half;  
 dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft.  
 dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
 high, W. of cor.  
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the  
 ground, for cor. of secs. 20, 21, 28 and 29, marked on  
 brass cap  
 1916 on S. rim;  
 T16 $\frac{1}{2}$ N R18W in N. half;  
 S20 in NW.,  
 S21 in NE.,  
 S28 in SE. and  
 S29 in SW. quadrant;  
 dig pits, 18 X18 X 12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist.;  
 and raise a mound of earth, 4 ft. base, 2 ft. high,  
 W. of cor.  
 Land, rolling desert.  
 Soil, sandy; 2nd rate.  
 No timber.  
 Undergrowth, greasewood, yucca, ocotillo and cacti.  
 A. S.



10. Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W.

Chains.

- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1916 on S. rim;  
 $\frac{1}{4}$ S31 in W. and  
 S32 in E. half;  
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- 66.50 Center of wash, 1.50 chs. wide, course W.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked on brass cap  
 1916 on S. rim;  
 T16 $\frac{1}{2}$ N R18W in N. half;  
 S30 in NW.,  
 S29 in NE.,  
 S32 in SE. and  
 S31 in SW. quadrant;  
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
 Land, rolling desert.  
 Soil, sandy; 2nd rate.  
 No timber.  
 Undergrowth, greasewood, ocotillo and cacti.  
 Apr. 7, 1916.

Apr. 8, 1916: At 7 hrs. 32 m., a.m., l.m.t., I set off 34° 47' N. on the lat. arc; 7° 15 $\frac{1}{2}$ ' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32.

- Thence I run  
 N.89° 57' E., on a random line, bet. secs. 29 and 32.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.00 Intersect N. and S. line, at the cor. of secs. 28, 29, 32 and 33.  
 Thence I run  
 S.89° 57' W., on a true line, bet. secs. 29 and 32.  
 Over rolling land, through dense undergrowth.
- 17.50 Old road, brs. N. and S.
- 25.00 Wash, 30 lks. wide, course SW.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1916 on S. rim;  
 $\frac{1}{4}$ S29 in N. and  
 S32 in S. half;  
 dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.
- 80.00 The cor. of secs. 29, 30, 31 and 32.  
 Land, rolling desert.  
 Soil, sandy; 2nd rate.  
 No timber.  
 Undergrowth, greasewood, ocotillo, yucca and cacti.  
 Apr. 8, 1916.

- Apr. 7, 1916.  
 S.89° 57' W., on a random line, bet. secs. 30 and 31.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 77.53 Intersect W. bdy. of Tp., 7 lks. S. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, established by R. D. A., as described in Book "A".  
 Thence I run  
 East on a true line, bet. secs. 30 and 31.  
 Over rolling land, through dense undergrowth.
- 3.55 Center of Sacramento Wash, 1.60 chs. wide, course SW.
- 30.85 Center of wash, 1. ch. wide, course NW.
- 37.53 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the

Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W. 11.

Chains.	<p>ground, for <math>\frac{1}{4}</math> sec. cor., marked on brass cap  1916 on S. rim;  <math>\frac{1}{4}</math>S30 in N. and  S31 in S. half;  dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft.  dist.; and raise a mound of earth, 3<math>\frac{1}{2}</math> ft. base, 1<math>\frac{1}{2}</math> ft.  high, N. of cor.</p>
39.85	Center of wash, 70 lks. wide, course S.70° W.
77.53	The cor. of secs. 29, 30, 31 and 32. Land, rolling desert. Soil, sandy; 2nd rate. No timber. Undergrowth, greasewood, ocotillo, palo verde, willow and cacti. Apr. 7, 1916: At this cor., I set off 6° 56 $\frac{1}{2}$ ' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 47' N.
34.00	N.0° 3' W., bet. secs. 29 and 30. Over rolling land, through dense undergrowth. Wash, 40 lks. wide, course W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; $\frac{1}{4}$ S30 in W. and S29 in E. half; dig pits, 18 X 18 X 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
79.50	Road, brs. NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked on brass cap 1916 on S. rim; T16 $\frac{1}{2}$ N R18W in N. half; S19 in NW., S20 in NE., S29 in SE. and S30 in SW. quadrant; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Land, rolling desert. Soil, sandy; 2nd rate. No timber. Undergrowth, greasewood, palo verde, ocotillo and cacti. April 7, 1916.
40.00	April 8, 1916. N.89° 57' E., on a random line, bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 20, 21, 28 and 29. Thence I run S.89° 58' W., on a true line, bet. secs. 20 and 29. Over rolling land, through dense undergrowth.
39.95	Point for $\frac{1}{4}$ sec. cor. falls where it cannot be properly established. I return to
39.40	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap 1916 on S. rim; WC $\frac{1}{4}$ S20 in N. and S29 in S. half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
79.90	The cor. of secs. 19, 20, 29 and 30. Land, rolling desert. Soil, sandy; 2nd and 3rd rate.

12. Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W.

Chains.

No timber.  
Undergrowth, greasewood, palo verde and ocotillo.  
Apr. 8, 1916.

- Apr. 7 1916.  
West on a random line, bet. secs. 19 and 30.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
77.58 Intersect W. bdy. of Tp., 5 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, established by R. D. A., as described in Book "A".  
Thence I run  
N.89° 58' E., on a true line, bet. secs. 19 and 30.  
Over rolling land, through dense undergrowth.
- 11.58 Wash, 30 lks. wide, course SW.  
24.55 Telegraph line, brs. NE. and SW.  
26.25 Telegraph line, brs. NE. and SW.  
27.48 Main line A. T. and S. F. R. R. brs. NE. and SW.  
29.35 Center of Sacramento Wash, 1.50 chs. wide, course SW.  
37.58 Set an iron post, 3 ft. long, 1 in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1916 on S. rim;  
 $\frac{1}{4}$ S19 in N. and  
S30 in S. half;  
dig pits, 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.
- 69.47 From this point, Haviland Pump House brs. N.6 $\frac{1}{2}$ ° W.  
Haviland section house brs. N.2° 50' W.  
75.48 Road, brs. NW: to Haviland and SE.  
77.58 The cor. of secs. 19, 20, 29 and 30.  
Land, rolling desert.  
Soil, sandy and gravel; 2nd rate.  
No timber.  
Undergrowth, greasewood.
- N.0° 3' W., on a true line, bet. secs. 19 and 20.  
Over rolling land, through dense undergrowth.
- 27.00 Center of wash, 1.60 chs. wide, course SW.  
31.12 From this point, Haviland section house brs. N.43° W.  
Pump house brs. N.47 $\frac{3}{4}$ ° W.  
40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1916 on S. rim;  
 $\frac{1}{4}$ S19 in W. and  
S20 in E. half;  
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- 46.00 Road, brs. NW. and SE.  
51.47 Main line A. T. and S. F. R. R. brs. NE. and SW.  
52.16 Telegraph line, brs. NE. and SW.  
53.38 Telegraph line, brs. NE. and SW.  
61.50 Enter hilly land, brs. NE. and SW.  
67.00 Wash, 40 lks. wide, course SW.  
83.30 Intersect Fourth Standard Parallel North, 8.14 chs. W. of the standard cor. of secs. 34 and 35, T. 17 N., R. 18 W., which is a malpais stone, 14 X 10 X 16 ins. above ground, marked and witnessed as described by the Surveyor-General.  
At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, on bed rock, 20 ins. in a mound of stone, for closing cor. of secs. 19 and 20, marked on brass cap  
1916 on S. rim;  
S34 in N. half;  
CC S. of center;  
S20 R18W in SE. and

Subdivision of Fractional T. 16 $\frac{1}{2}$  N., R. 18 W. 13.

Chains.

S19 T16 $\frac{1}{2}$ N in SW. quadrant;  
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high,  
 S. of cor.  
 Land, rolling desert.  
 Soil, sand and gravel; 2nd and 3rd rate.  
 No timber.  
 Undergrowth, greasewood.

A. S.  
 Apr. 7, 1916.

GENERAL DESCRIPTION.

This fractional township consists of level and rolling land, draining to the west and north west. The land is covered with a dense growth of greasewood, ocotillo and yucca. The soil is sandy, 2nd rate, but cannot be successfully cultivated without irrigation.

The main line of the A. T. and S. F. R. R. passes through the north west corner of the township. Haviland, which consists of a pump house and section house, is located in the north east quarter of sec. 19. The A. T. and S. F. R. R. also has a ballast quarry in the north east quarter of sec. 20.

There are no settlers in the township. The only water is at Haviland.

For Certificate of U.S. Surveyor and U.S. Transitman  
see page II, Book "B" of this Group.

**FINAL OATH OF UNITED STATES SURVEYOR.**

I, \_\_\_\_\_, U. S. Surveyor, do solemnly swear that, in pursuance  
of special instructions received from the U. S. Surveyor General for \_\_\_\_\_  
, bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_, I have well, faithfully, and truly,  
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying  
Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ of the \_\_\_\_\_  
\_\_\_\_\_ Meridian, in the State of \_\_\_\_\_, which are represented in  
the foregoing field notes as having been executed by me, and under my direction; and I do further  
solemnly swear that all the corners of said survey have been established and perpetuated in strict accord-  
ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor  
General for \_\_\_\_\_ and in the specific manner described in the field notes, and that  
the foregoing are the original field notes of such survey.

\_\_\_\_\_  
U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_



**APPROVAL.**

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona April 10 \_\_\_\_\_, 1917

The foregoing field notes of the survey of the \_\_\_\_\_  
\_\_\_\_\_ Subdivision lines of \_\_\_\_\_  
\_\_\_\_\_ Fractional Township 16½ North, Range 18 West  
\_\_\_\_\_ of the Gila and Salt River Base and Meridian  
\_\_\_\_\_ in the State of Arizona

executed by Albert Smith Jr., U.S. Surveyor & Ray D. Armstrong, U.S. Transitman  
under \_\_\_\_\_ special instructions dated December 28, 1914 for Group 42 Arizona, having been  
critically examined, and the necessary corrections and explanations made, the said field notes, and the  
surveys they describe, are hereby approved.

*Frank O. Frost*  
Surveyor General.  
of Arizona.

~~I certify that the foregoing transcript of the field notes of the above described surveys in \_\_\_\_\_  
\_\_\_\_\_, has been correctly copied from the original notes on file in this office.~~