

2989

4-678

BOOK 2989

Book "M"  
SUBDIVISIONS

# FIELD NOTES

RE-  
OF THE SURVEY OF PART

of the

SUBDIVISION LINES OF

TOWNSHIP 9 NORTH, RANGE 25 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

*E. E. B...*

In the capacity of U. S. Surveyor, under instructions dated December 14, 1914,

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

Group No. 40, which were approved by the Commissioner of the General Land

Office, January 27, 1914.

Re- Survey commenced August 12, 1915.

Re- Survey completed September 1, 1915.

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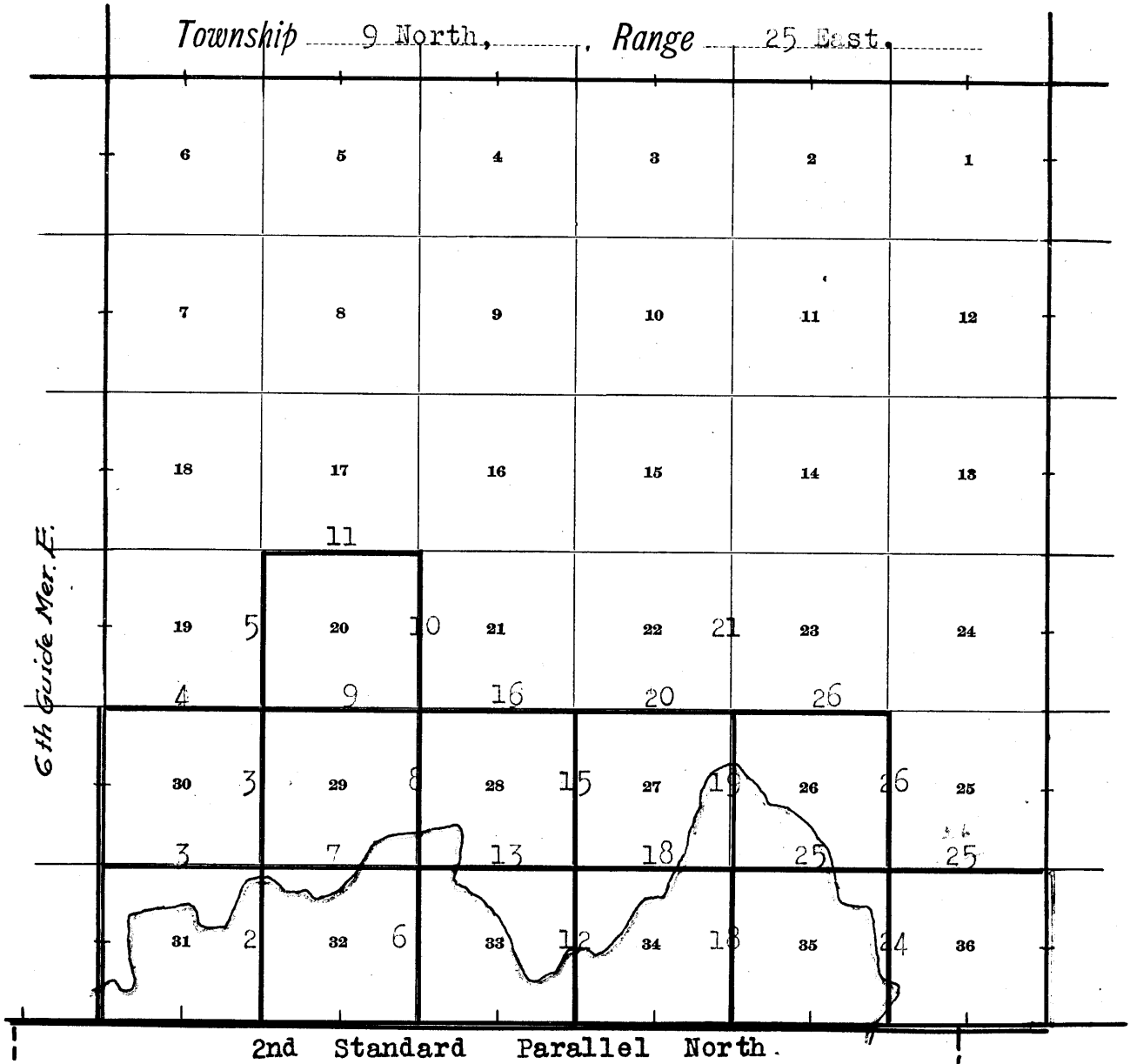
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1A

BOOK 2989

Book "M"

# INDEX DIAGRAM.



- Subdivision lines, <sup>retraced or</sup> resurveyed. Notes in this book.
- Tp, bdrs. retraced or resurveyed. Notes in Book "A."
- Standard lines retraced or resurveyed. Notes in Book "C."
- North bdy. Ft. Apache Indian Reservation retraced. Notes in Book "B."
- Accepted surveys.
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Partial Resurvey of the Subdivision lines of T.9 N. R.25 E. 13

Chains.

Resurvey commenced August 12, 1915, and executed with a Buff light mountain transit No.9793, described in Book "A."

I examine the adjustments of the transit, and find them to be correct, and know from recent tests of the solar apparatus, made by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian established by observations on Polaris that the instrument is in satisfactory adjustment.

For last complete test of instrument, see book "C"

A 5-chain steel tape and clinometer are the instruments employed to determine all distances measured in this resurvey.

August 13, 1915. At 7h. 4.9m. a.m., l.m.t., I set off 34° 06' N. on the lat.arc; 14° 55½' N. on the decl.arc, and determine a meridian with the solar at the reestablished standard cor. of secs.31 and 32 on S.bdy.of Tp.(2nd Standard Parallel North,) described in Book "C."

Thence, North, on a random line; bet. secs.31 and 32,

- 40.00 No trace of the old ¼ sec.cor. can be found.
  - 80.00 No trace of old cor.of secs.29,30,31 and 32, can be found. Continue line and measurement, bet. secs.29 and 30.
  - 120.00 No trace of old ¼ sec.cor. can be found.
  - 159.90 Fall 28 lks.E. of point of original location of cor.of secs.19,20, 29 and 30, which point I determine by reference to remains of the original SE. bearing tree, which I find legibly marked. The original SW. bearing tree cannot be found. Set temp.sec.cor. at this point.
- True course and dist.of line back to standard cor. of secs. 31 and 32 is therefore S.0° 6'E., 159.90 chs.

From temp, cor.of secs. 19,20,29 and 30, S.0°6'E., on a trial line, setting temp. ¼ sec.and sec. cors. at distances proportional to original distances.

- 39.97½ Set temp.¼ sec.cor. of secs.29 and 30.
- 79.95 Set temp.cor.of secs. 29,30,31 and 32.
- 119.92½ Set temp.¼ sec.cor. of secs.31 and 32.
- 159.90 Intersect the reestablished standard cor. of secs.31 and 32 on S.bdy.of Tp.(2nd.Standard Parallel N.)described in Book "C."

At 1h. 34.9m. p.m., l.m.t., I set off 34°07'N. on the lat. arc; 14°49½'N. on the decl.arc, and determine a meridian with the solar at the reestablished cor.of secs. 25,30, 31 and 36 on W.bdy.of Tp. (6th.Guide Mer.E.), described in Book "C."

Thence, N.89°54'E., on a random line, bet. secs.30 and 31.

- 40.09 Fall 15 lks.N.of the old ¼ sec.cor., which is a pine, 36 ins. in diam., marked and witnessed as described by the surveyor general.
- True course and dist. of W.½, bet. secs.30 and 31 is therefore N.89° 53'W., 40.09 chs.

Thence, N.89°54'E., on a random line, on E.half; bet. secs.30 and 31.

- 40.09 No trace of old cor.of secs. 29,30,31 and 32 can be found after another diligent search; therefore, continue line and measurement, bet. secs.29 and 32.
  - 80.76 Fall 8 lks.S.of old ¼ sec.cor., which is a malpais stone 12x8x8 ins/ above ground, marks almost obliterated, and witnessed by original bearing trees.
- True course and dist.of line back to old ¼ sec.cor. of

## 2. Partial Resurvey of the Subdivision lines of T.9 N., R.25 E.

Chains.

secs.30 and 31 is therefore S.89°51'W., 80.76 chs.

- From old  $\frac{1}{4}$  sec.cor. of secs.29 and 32,  
S.89° 51'W., on trial line on W. $\frac{1}{2}$ , bet. secs.29 and 32, on  
E. $\frac{1}{2}$ , bet. secs.30 and 31.
- 40.38 A point 4 lks.S. of temp.cor.of secs.29,30,31 and 32, on  
trial N.and S. line hereinbefore described.
- 40.43 (Proportional dist.) Set temp.cor.of same secs.
- 80.76 Intersect the old  $\frac{1}{4}$  sec.cor. of secs.30 and 31, hereinbe-  
fore described.

Clouds obscure the sun at noon today, rendering an obser-  
vation for latitude impossible with the solar.

August 13, 1915.

Aug.17,1915.At 7h.49m.a.m.,1m.t., I set off 34°07'N.on  
lat.arc;13°38'N.on decl.arc & determine a meridian with  
the solar at temp.cor.of secs.29,30,31&32, set on the E.  
& W.trial line, as hereinbefore described. At a point 4  
lks.N. of this temp.cor. & 5 lks.W. of temp.cor. of same  
secs.set on trial W.& S. line, I reestablish the sec.cor.  
as follows:

Set an iron post 3ft. long, 2ins. in diam., 24'ins. in ground  
for cor.of secs.29,30,31&32, marked on brass cap,

T 9 N R 25 E in N.,

1915 in S. half;

S 30 in NW., S 29 in NE., and

S 32 in SE., and S 31 in SW. quad.; from which

An aspen, 10 ins. in diam., brs.N.66  $\frac{3}{4}$ °E., 142  
lks.dist., which I mark T 9 N R 25 E S 29 BT

An aspen, 12 ins. in diam., brs.S.21  $\frac{3}{4}$ °E., 54  
lks.dist. which I mark T 9 N R 25 E S 32 BT.

A pine, 14 ins. in diam., brs.S.68  $\frac{3}{4}$ °W., 112  
lks.dist., which I mark T 9 N R 25 E S 31BT.

A pine, 36 ins. diam., brs. N.40  $\frac{1}{2}$ °W., 157 lks.  
dist., which I mark T 9 N R 25 E S 30 B T.

Thence,

S.0°08'E., on a true line, bet. secs. 31 and 32.

Ascend NW. slope, over stony, mountainous land, through  
pine and fir, timber and brush.

- 4.75 Top of divide between the head waters of the Salt and  
Little Colorado rivers, 90 ft. above cor., brs.E.and  
W.

- 5.02 Wire fence along N. bdy. of the Fort Apache Indian Reser-  
vation, brs.E. and W.

- 5.26 Intersect the N. bdy. of the Fort Apache Indian Reserva-  
tion, 3.57 chs.S.87°12'W. of Angle Point No.198, de-  
scribed in Book "B."

At point of intersection,

Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in  
the ground for reestablished closing cor. of secs.31  
and 32, marked on brass cap,

C C N of center,

T 9 N, R 25 E in N., and

FAIR, 1915 in S half;

S 31 in NW., and

S 32 in SE. sectors

From this cor., the unaccepted closing cor. of same secs.  
set by Deputy Charles E. Perkins, under contract No.40,  
brs.N.87°12'E., 17 lks, dist., which I destroy, and the  
marks on the bearing trees to same.

Descend SW.slope, 164 ft.

- 26.94 Trail to Pearce Spring, brs.N.70°W. and S.70°E.

- 27.70 Foot of descent in Pass brs.N.70°W. and S.70°E. at foot  
of Cerro Gordo Mountain; ascend NW. slope, 105 ft.

- 39.97  $\frac{1}{2}$  Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in  
the ground for reestablished  $\frac{1}{4}$  sec.cor., marked on  
brass cap,

 $\frac{1}{4}$  S 31 in W.,

S 32 in E., and

1915 in S. half; from which

Partial Resurvey of the Subdivision lines of T. 9 N., R. 25 E., 3.

Chains.

- A spruce, 10 ins. in diam., brs. S. 29 3/4° E., 69 lks. dist., which I mark 1/4 S 32 B T. and

A spruce, 10 ins. in diam., brs. S. 13 1/2° W., 99 lks. dist., which I mark 1/4 S 31 B T.

Continue very abrupt ascent 724 ft., over N. slope of Cerro Gordo mountain, through dense willow, aspen and pine brush undergrowth.
- 79.95 Intersect the reestablished standard cor. of secs. 31 and 32 on S. bdy. of Tp. (2nd. Standard Parallel N.) described in Book "C"

Land, mountainous.  
Stony sand and clay loam on volcanic ash and cinders.  
Timber, aspen, fir, spruce and pine.  
Good growth grass.

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- From reestablished cor. of secs. 29, 30, 31 and 32, hereinbefore described,  
S. 89° 48' W., on a true line, on E. 1/2, bet. secs. 30 and 31. Descend over NW. slope, 171 ft. through pine, aspen and fir timber and brush.
- 38.30 Foot of descent in pass, brs. NW. and SE.
- 39.33 Trail from the C C flat to Pearce Spring brs. N. 60° W. and S. 60° E.; ascend NE. slope, 10 ft.
- 40.33 Intersect the old 1/4 sec. cor. hereinbefore described, from which original bearing trees,  
A dead pine stump, 36 ins. in diam., brs. N. 51 1/2° E., 42 lks. dist., marked 1/4 S B T., and  
A pine, 12 ins. in diam., brs. S. 42° W., 40 lks. dist., marked 1/4 S 31 B T. Establish new bearing tree.  
A pine, 24 ins. in diam., brs. N. 43 1/2° E., 114 lks. dist., which I mark 1/4 S 30 B T.
- Thence I run,  
N. 89° 53' W., on a true line, on W. 1/2, bet. secs. 30 and 31. Over mountainous land.
- 10.27 Foot of Pearce Spring Mountain; ascend steep NE. slope, 123 ft., through dense aspen and pine brush.
- 29.09 Top of ascent on spur, brs. NE. and SW., about 12 chs. S. of Pearce Spring; descend over NW. slope, 106 ft.
- 40.09 Intersect the reestablished cor. of secs. 25, 30, 31 and 36, on W. bdy. of Tp. (6th. Guide Mer. E.) described in Book "C."

Land, mountainous.  
Soil, dry, stony loam, 4 to 12 ins. deep on stony clay subsoil.  
Timber, aspen, fir and pine.  
Good growth grass.

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- From reestablished cor. of secs. 29, 30, 31 and 32, hereinbefore described,  
N. 0° 04' W., on a true line, bet. secs. 29 and 30. Descend NW. slope, of spur, 149 ft., over stony, mountainous land, through pine, fir and aspen timber and brush.
- 15.00 Foot of descent in ravine, 300 lks. wide, course S. 60° W.; ascend SE. slope, over malpais boulders, 20 ft.
- 39.00 Top of stony ridge, brs. N. 60° E. and S. 60° W.; descend 19 ft.
- 39.97 1/2 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished 1/4 sec. cor., marked on brass cap,  
1/4 S 30 in W.,  
S 29 in E., and  
1915 in S. half; from which  
A pine, 14 ins. in diam., brs. N. 30 1/4°, 50 lks. dist., which I mark 1/4 S 29 B T.

## 4. Partial Resurvey of the Subdivision lines of T.9 N., R.25 E.

Chains.

- A fir, 14 ins. in diam., brs. S.73°W., 58 lks. dist., which I mark  $\frac{1}{4}$  S 30 B T.  
No trace of the unaccepted  $\frac{1}{4}$  sec. cor. set by Deputy Charles E. Perkins can be found.
- 40.17 Telephone line from the Cienega Los Burros Forest Ranger station to Springerville, Arizona, bears E. and W. Continue descent from the  $\frac{1}{4}$  sec. cor., 34 ft.
- 46.50 Dry ravine, 3 chs. wide, course N.30°E.; ascend SE. slope 111 ft.
- 66.00 spur brs. E. and W.; descend N. slope 43 ft.
- 70.60 Dry ravine, 5 lks. wide, course S.70° E. Ascend. 75 ft.
- 77.00 Top of spur, brs. S.70°W. and S.60°E. descend N. slope. 128 ft.
- 79.95 Intersect the temp. cor. of secs. 19, 20, 29 and 30, at which point I reestablish cor. of same secs. as follows:  
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,  
T 9 N R 25 E in N., and  
1915 in S. half;  
S 19 in NW.,  
S 20 in NE.,  
S 29 in SE., and  
S 30 in SW. quadrant; from which original bearing trees,
- A pine, 20 ins. in diam. (dead) broken off 10 ft. above ground brs. S. 47°E., 51 lks. dist., marked T 9 N R 25 E S 29 B T.  
The stump of a pine tree, burned off at the surface of the ground brs. S.55°W., 14 lks. dist., This is doubtless the stump of the original SW. bearing tree.
- Establish new bearing trees, as follows:  
A fir, 24 ins. in diam., brs. N.79 $\frac{1}{4}$ °E., 77 lks. dist., which I mark T 9 N R 25 E S 20 B T.  
A pine 14 ins. in diam., brs. S.74°E., 80 lks. dist., which I mark T 9 N R 25 E S 29 B T.  
A pine, 16 ins. in diam., brs. S.28 $\frac{1}{2}$ °W., 80 lks. dist., which I mark T 9 N R 25 E S 30 B T.  
A pine, 20 ins. in diam., brs. N.5°W., 145 lks. dist., which I mark T 9 N R 25 E S 19 B T.
- Land, mountainous.  
Soil, poor stony clay loam and decomposed lava rock, 3rd and 4th rate.  
Timber, pine, fir and aspen.

August 17, 1915.

August 18, 1915.

- At Th. 3+01.2 m. Dist I set off 34°08'N. on the lat. arc; 13°19'N. on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 19, 20, 29 and 30.
- Thence,  
S.89°52'W., on a random line, bet. secs. 19 and 30.
- 40.06 Fall 20 lks. S. of the old  $\frac{1}{4}$  sec. cor., which is a post greatly decayed, marks almost obliterated, and witnessed by the original bearing trees.  
True course and dist. of E.  $\frac{1}{4}$ , bet. secs. 19 and 30 is therefore S.89°51'E., 40.06 chs.  
From old  $\frac{1}{4}$  sec. cor. described above,  
S.89°52'W. on random line, on W.  $\frac{1}{4}$  bet. secs. 19 and 30.
- 40.20 Fall 22 lks. S. of the reestablished cor. of secs. 19, 24, 25 and 30 on W. bdy. of Tp. (6th. Guide Meridian East) described in Book "C".  
True course and dist. of W.  $\frac{1}{4}$ , bet. secs. 19 and 30 is therefore S.89°49'E., 40.20 chs.  
Thence,  
S.89°49'E., on a true line on W.  $\frac{1}{4}$ , bet. secs. 19 and 30.

Partial Resurvey of the Subdivision lines of T. O. N. R. 25 E. : 5

Chains	Ascend NW. slope of mountain 646 ft., through heavy pine, oak and aspen timber and brush, over ridges and ravines.
31.30	Dry ravine, 10 lks. wide 20 ft. deep, course N.20° W.
40/20	Intersect the old 1/4 sec.cor., hereinbefore described, and reestablish in same place as follows: 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 19 in N., and S 30, 1915 in S: half; from which the original bearing tree, A pine, 24 ins. in diam., brs.N.30°E., 45 lks. dist., marked 1/4 S 19 B T. Establish as a new bearing tree, A pine, 36 ins. in diam., brs.S.46 3/4°W. 86 lks.dist., which I mark 1/4 S 30 B T.
	Thence, S.89°51'E., on a true line on E:1/2, bet. secs.19 and 30. Over mountainous land. Continue ascent, 59 ft., over SW. slope.
9.00	Top of mountain brs.NW. and south; descend SE.slope 457 ft.
28.10	Dry ravine, 10 lks.wide, course N.20°E.; ascend NW.slope 68 ft.
33.50	Top of spur, brs.N.20°E. and S.20°W.; descend SE.slope, 37 ft.
35.60	Dry ravine, 5 lks.wide, course N.20°E.; ascend NW.slope, 31 ft.
40.06	Intersect the reestablished cor. of secs.19,20,29 and 30, hereinbefore described. Land, mountainous. Soil, stony, 3rd and 4th rate. Timber, oak, aspen, fir and pine. August 18, 1915.
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	August 14, 1915: At 8h. 04.7m. a.m., l.m.t., I set off 34°08'N. on the lat.arc; 14°36'N., on the decl.arc, and determine a meridian with the solar at the temporary cor.of secs. 19,20,29 and 30, set as hereinbefore described, Thence, North, on a random line, bet. secs.19 and 20.
40.00	I make a diligent search for the old 1/4 sec.cor., which I fail to find; therefore, continue line and measurement.
81.00	Fall 5lks.E. of the old cor. of secs.17,18,19 and 20, which is a malpais stone 12x12x6 ins., loosely set in a mound of stone, marks almost obliterated, witnessed by the four original bearing trees. True course and dist. of line, bet. secs. 19 and 20 is therefore N.0°2'W.; 81.00 chs. August 14, 1915.
	August 18, 1915. From reestablished cor.of secs.19,20, 29 and 30, hereinbefore described, N.0° 2'W., on a true line, bet. secs. 19 and 20. Descend NW. slope of spur,over stony mountainous land, through heavy pine and fir timber and brush undergrowth.
3.50	A point from which the cor. of secs.19,20,29 and 30, set by Deputy Charles E. Perkins, under contract No.40, brs. west 144 lks.dist., I destroy all trace of this cor., and the marks on the bearing trees to same.
12.00	Head of dry ravine, 15 lks.wide, 212 ft. below cor., course N.50°E.; ascend SE. slope,10 ft.
16.00	Top of spur brs.N.50° E. and S.50°W.; descend NW. slope, 42 ft.
21.55	Dry ravine, 5 lks.wide, course N. 30°E. Ascend 15 ft.
26.50	Top of spur, brs.N.30°E. and S.30°W.; descend NW. slope, 29 ft.
31.50	Head of dry ravine, 8 lks.wide, course east; ascend S. slope, 29 ft.
35.60	Top of spur, brs.east and west;descend N.slope,80 ft.
40.50	Set an iron post 3 ft.long, 1.in. in diam., 26 ins. in

## 5. Partial Resurvey of the Subdivision lines of T.9 N., R.25 E.

Chains.

the ground for reestablished  $\frac{1}{4}$  sec. cor., marked on brass cap,

$\frac{1}{4}$  S 19 in W.,  
S 20 in E., and

1915 in S. half; from which

A pine, 14 ins. in diam., brs. S.  $41\frac{1}{4}^{\circ}$  E., 63 lks. dist., which I mark  $\frac{1}{4}$  S 20 B T., and

A pine, 14 ins. in diam., brs. S.  $83\frac{1}{2}^{\circ}$  W., 105 lks. dist., which I mark  $\frac{1}{4}$  S 19 B T.

From this cor., the unaccepted  $\frac{1}{4}$  sec. cor., set by Deputy Charles E. Perkins under contract No. 40 brs. N.  $74\frac{1}{2}^{\circ}$  W., 144 lks. dist., which I destroy, and the marks on the bearing trees to same.

40.65 Dry ravine, 25 lks. wide, course N.  $60^{\circ}$  W., ascend SW. slope, 51 ft.

55.50 Top of ascent in ridge, brs. NW. and SE.; descend gradually over NE. slope, 53 ft.

81.00 Intersect the old cor. of secs. 17, 18, 19 and 20, hereinbefore described, which I destroy, and reestablish in the same place as follows:

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,

T 9 N R 25 E in N., and

1915 in S. half;

S 18 in NW.,

S 17 in NE.,

S 20 in SE., and

S 19 in SW. quadrant; from which original

bearing trees

A pine, 8 ins. in diam., brs. N.  $67^{\circ}$  E., 73 lks. dist., marked T 9 N R 25 E S 17 B T.

A pine, 10 ins. in diam., brs. S.  $34^{\circ}$  E., 40 lks. dist., marked T 9 N R 25 E S 20 B T.

A dead and fallen pine 8 ins. in diam., brs. S.  $44\frac{3}{4}^{\circ}$  W., 41 lks. dist., marked T 9 N R 25 E S 19 B T., and

A pine, 18 ins. in diam., brs. N.  $49^{\circ}$  W., 69 lks. dist., marked T 9 N R 25 E S 18 B T.

Establish a new bearing tree,

A pine, 24 ins. in diam., brs. S.  $74^{\circ}$  W., 69 lks. dist., marked T 9 N R 25 E S 19 B T.

Land, mountainous.

Soil, poor dry, stony clay loam, 3rd and 4th rate.

Timber, pine, oak and fir.

August 16, 1915. At 8h. 19.3m., a.m., l.m.t., I set off  $34^{\circ}06'$  N. on the lat. arc;  $13^{\circ}57'$  N., on the decl. arc, and determine a meridian with the solar at the reestablished standard cor. of secs. 32 and 33 on S. bdy. of the Tp. (2nd. Standard Parallel N.) described in Book "C."

Thence,

North, on a random line, bet. secs. 32 and 33.

40.00 I make a diligent search for the old  $\frac{1}{4}$  sec. cor., which I fail to find; therefore, continue line and measurement.

80.22 Fall 14 lks. E. of the reestablished cor. of secs. 28, 29, 32 and 33, hereinafter described.

True course and dist. of line, bet. secs. 32 and 33 is therefore S.  $0^{\circ}6'$  E., 80.22 chs.

Thence,

S.  $0^{\circ}6'$  E., on a true line, bet. secs. 32 and 33.

Descend SE. slope, 53 ft., over stony, mountainous land, through heavy pine and fir timber and brush.

.8.00 Head of ravine, 10 lks. wide, course S.  $30^{\circ}$  E.; ascend along NE. slope, 18 ft.

10.00 Top of spur, brs. N.  $30^{\circ}$  E. and S.  $30^{\circ}$  W., descend 96 ft.

20.20 Dry ravine, 25 lks. wide, course S.  $70^{\circ}$  W.; ascend NW. slope, 57 ft.



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Partial Resurvey of the Subdivision lines of T.9 N., R.25 E. 7

Chains.	
27.00	Top of spur, brs.E. and W. Descend S. slope, 29 ft.
32.63	Dry ravine, 50 lks.wide, course N.70°W.; ascend 56 ft.
39.00	Top of spur, brs.N.80°E. and S.80°W.; descend 5 ft.
40.11	Set an iron post 3 ft.lqmg, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 32 in W., S 33 in E., and 1915 in S.half; from which A pine, 12 ins. in diam., brs.S.57 $\frac{1}{2}$ °E., 116 lks. dist., which I mark $\frac{1}{4}$ S 33 B T. A pine, 16 ins. in diam., brs.N.82 $\frac{1}{2}$ °W., 77 lks. dist., which I mark $\frac{1}{4}$ S 32 B T.
	Continue descent, over S.slope, 26 ft.
44.60	Dry ravine, 30 lks.wide, course N.60°W.; ascend NE.slope of spur, 46 ft.
48.10	Top of spur, brs.E. and W.; descend 121 ft.
73.20	Dry ravine, 60 lks.wide, course west; ascend S.slope, 77 ft.
80.22	Intersect the reestablished standard cor. of secs.32 and 33 on S.bdy.of Tp.(2nd.Standard Parallel N.)described in Book "C." Land, mountainous. Soil, stony, 3rd and 4th rate. Timber, aspen, fir and pine.
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	From reestablished cor.of secs. 28,29,32 and 33,hereinafter described, N.89°55'W., on a random line, bet. secs.29 and 32.
39.50	Fall 54 lks.N. of the old $\frac{1}{4}$ sec.cor., hereinbefore described, which I destroy and reestablish in the same place, as follows: 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 29 in N., and S 32, 1915 in S.half; from which the original bearing trees A pine 14 ins. in diam., brs.N.30 $\frac{1}{4}$ °W., 38 lks. dist., marked $\frac{1}{4}$ S 29 B T., and A pine, 20 ins. in diam., brs.S.2 $\frac{1}{2}$ °W., 104 lks. dist., marked $\frac{1}{4}$ S 32 B T.
	From this cor., the unaccepted $\frac{1}{4}$ sec.cor., set by Deputy Charles E. Perkins, under Contract No.40, brs.N.28 $\frac{1}{2}$ °W., 97 lks.dist., which I destroy, and the marks on the bearing trees to same.
	True course and dist. of E. $\frac{1}{2}$ bet. secs.29 and 32 is therefore N.89°18'E., 39.50 chs.
	August 16, 1915.
	August 17, 1915. From reestablished cor.of secs. 29,30,31 and 32, hereinbefore described, N.89°54'E., on a true line, on W. $\frac{1}{2}$ , bet. secs.29 and 32. Ascend NW.slope, 10 ft., over stony mountainous land, through heavy aspen, fir, spruce and pine timber and brush.
3.00	Top of spur, brs.NW. and SE.; descend 42. ft.
22.50	Head of dry ravine, 10 lks.wide, course north; ascend W. slope, 175 ft.
39.80	Top of ridge, brs.N.30°E. and S.30°W.; descend SE.slope, 4 ft.
40.43	Intersect the reestablished $\frac{1}{4}$ sec.cor. described above. August 17, 1915.
	August 16, 1915. Thence, N.89° 18'E., on a true line, on E. $\frac{1}{2}$ , bet.secs.29 and 32. Over mountainous land. Continue descent over SE.slope, 49 ft.
8.00	Head of dry ravine, 10 lks.wide, course N. 10°E.;ascend NW.slope, 49 ft.
12.02	Top of the divide between the head waters ofthe Salt and

## 8. Partial Resurvey of the Subdivision lines of T. 9 N., R. 25 E.

Chains.	Little Colorado rivers, brs.NE. and SW.; descend SE. slope, 34 ft.
13.06	Wire fence along N. bdy. of the Fort Apache Indian Reservation, brs.NE. and SW.
14.06	Intersect the N. bdy. of the Fort Apache Indian Reservation 5.18 chs. N. $34^{\circ}$ E. of the $32\frac{1}{2}$ mile mon., described in Book "B."
	At point of intersection; Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for closing cor. of secs. 29 and 32, marked on brass cap, C C W of center, T 9 N R 25 E in N., and F A I R, 1915 in S. half; S 29 in NW., and S 32 in SE. sectors.
	From this cor., the unaccepted closing cor. of same secs. set by Deputy Charles E. Perkins, under Contract No. 40, brs. S. $34^{\circ}$ W., 106 lks. dist., which I destroy, and the marks on the bearing trees to same.
17.07	Foot of descent in head of dry ravine, 40 lks. wide, course S. $10^{\circ}$ E.; ascend W. slope of mountain, 197 ft.
33.07	Top of mountain brs. N. and S.; descend over SE. slope, 80 ft.
39.50	Intersect the reestablished cor. of secs. 28, 29, 32 and 33, hereinafter described. Land, mountainous; spurs steep, rocky, covered with dense brush undergrowth. Soil, volcanic ash; underlain with malpais stone. Timber, aspen, fir, spruce and pine.
40.00	North, on a random line, bet. secs. 28 and 29. I make a diligent search for the old $\frac{1}{4}$ sec. cor., which I fail to find; therefore, continue line and measurement.
82.92	Fall 35 lks. W. of the old cor. of secs. 20, 21, 28 and 29, which is a malpais stone $20 \times 12 \times 8$ ins., loosely set, in a mound of stone, marks faint, and witnessed by the four original bearing trees. True course and dist. of line, bet. secs. 28 and 29 is therefore S. $0^{\circ} 15'$ W., 82.92 chs. This cor. being in a dilapidated condition, I destroy and reestablish it in same place as follows: Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked on brass cap, T 9 N, R 25 E in N., and 1915 in S. half; S 20 in NW., S 21 in NE., S 28 in SE., and S 29 in SW. quadrant; from which, original bearing trees, A pine, 10 ins. in diam., brs. N. $56^{\circ}$ E., 28 lks. dist., marked T 9 N R 25 E S 21 B T. A pine, 11 ins. in diam., brs. S. $19^{\circ}$ E., 11 lks. dist., marked T 9 N R 25 E S 28 B T. A dead pine, 16 ins. in diam., brs. S. $32\frac{1}{2}^{\circ}$ W., 85 lks. dist., marked T 9 N R 25 E S 29 B T.; and A pine, 26 ins. in diam., brs. N. $50\frac{3}{4}^{\circ}$ W., 43 lks. dist., marked T 9 N R 25 E S 20 B T. Establish as a new bearing tree, A pine, 20 ins. in diam., brs. S. $61\frac{1}{4}^{\circ}$ W., 162 lks. dist., which I mark T 9 N R 25 E S 29 B T. Thence, S. $0^{\circ} 15'$ W., on a true line, bet. secs. 28 and 29. Ascend NW. slope, 38 ft.; over stony, mountainous land, through heavy aspen, fir and pine timber.
13.50	Top of ascent on N. edge of flat, brs. N. $60^{\circ}$ E. and S. $60^{\circ}$ W.
29.00	South edge of flat brs. N. $20^{\circ}$ E. and S. $50^{\circ}$ W.; descend S. slope 41 ft.

## Partial Resurvey of the Subdivision lines of T.9 N. R.25 E. 9.

## Chains.

- 41.46 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 29 in W.,  
 S 28 in E., and  
 1915 in S. half; from which  
 A pine, 20 ins. in diam., brs. S. 61  $3/4^\circ$  E., 33 lks. dist., which I mark  $\frac{1}{4}$  S 28 B T., and  
 A fir, 24 ins. in diam., brs. N. 66  $1/2^\circ$  W., 67 lks. dist., which I mark  $\frac{1}{4}$  S 29 B T.  
 From this cor., the unaccepted  $\frac{1}{4}$  sec. cor., set by Deputy Charles E. Perkins, under contract No. 40, brs. N. 14  $^\circ$  E., 138 lks. dist., which I destroy, and the marks on the bearing trees to same.
- 41.53 Telephone line from the Cienega Los Burros Ranger station to St. Johns, and Springerville, Arizona, brs. E. and W.
- 46.00 Ascend N. slope of divide 145 ft., through dense underbrush.
- 63.85 Top of the divide between the head waters of the Salt and Little Colorado rivers, brs. E. and W.
- 63.92 Wire fence along N. bdy. of the Fort Apache Indian Reservation brs. E. and W.; descend S. slope of divide, 77 ft.
- 65.46 Intersect the N. bdy. of the Fort Apache Indian Reservation 199 lks. S. 82  $^\circ$  36' W. of the 32 mile mon., described in Book "B."  
 At point of intersection,  
 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished closing cor. of secs. 28 and 29, marked on brass cap,  
 C C N of center,  
 T 9 N R 25 E in N., and  
 F A I. R., 1915 in S. half;  
 S 29 in NW., and  
 S 28 in SE. sector.  
 From this cor., the unaccepted closing cor. of same secs. set by Deputy Charles E. Perkins, under Contract No. 40 brs. S. 82  $^\circ$  36' W., 21 lks. dist., which I destroy, and the marks on the bearing trees to same.
- 75.40 Head of dry ravine, 70 ft. below closing cor., course SE.; ascend NW. slope, 32 ft.
- 82.00 Top of spur, brs. NE. and SW.; descend SE. slope, 15 ft.
- 82.92 Intersect the reestablished cor. of secs. 28, 29, 32 and 33, hereinafter described.  
 At this cor., I set off 13  $^\circ$  54  $1/2'$  N. on the decl. arc, and at noon, apparent time, August 16, 1915, observe the sun on the meridian, and obtain a reading of 34  $^\circ$  07' N. on the lat. arc.  
 Land, rolling and mountainous.  
 Soil, clay loam and volcanic ash on clay subsoil and malpais stone.  
 Timber, aspen, fir, spruce and pine.  
 August 16, 1915.
- 
- August 14, 1915. From old cor. of secs. 20, 21, 28 and 29, hereinbefore described,  
 S. 89  $^\circ$  46' W. on a random line, bet. secs. 20 and 29,  
 40.30 Fall 170 lks. N. of the old  $\frac{1}{4}$  sec. cor., which is a malpais stone, 10x10x4 ins., loosely set in a mound of stone, marks almost obliterated, witnessed by the two original bearing trees.  
 True course and dist. of E.  $\frac{1}{2}$  bet. secs. 20 and 29 is therefore N. 87  $^\circ$  21' E., 40.34 chs.  
 From old  $\frac{1}{4}$  sec. cor., described above,  
 S. 89  $^\circ$  46' W., on a random line on W.  $\frac{1}{2}$ , bet. secs. 20 and 29,  
 40.09 Fall 150 lks. N. of the temp. cor. of secs. 19, 20, 29 and 30, set as hereinbefore described.  
 True course and dist. of W.  $\frac{1}{2}$ , bet. secs. 20 and 29 is therefore N. 87  $^\circ$  37' E., 40.13 chs.

August 16, 1915.

+ ch.

## 10. Partial Resurvey of Subdivision lines of T. 9 N. R. 25 E.

Chains.

- August 19, 1915. At 8h. 33.7m. a. m., l.m.t., I set off  $34^{\circ}08'N.$  on the lat. arc;  $12^{\circ}59\frac{1}{2}'N.$ , on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 19, 20, 29 and 30, hereinbefore described.
- Thence,  
 $N.87^{\circ}37'E.$ , on a true line, on  $W.\frac{1}{2}$ , bet. secs. 20 and 29. Descend NE. slope, 190 ft. into canyon, over stony mountainous land, through aspen, fir, and pine timber and brush undergrowth.
- 11.30 Bottom of canyon, cross dry ravine, 15 lks. wide, course  $N.10^{\circ}W.$ ; ascend abrupt W. slope, 127 ft.
- 17.06 Top of ascent on ledge of rock, 20 ft. high on E. side of canyon, brs.  $N.10^{\circ}W.$ , and  $S.10^{\circ}E.$ ; ascend gradually, 17 ft.
- 28.56 Top of spur, brs. N. and S.; descend E. slope, 17 ft.
- 38.76 Dry ravine, 5 lks. wide, course north; ascend 5 ft.
- 40.13 Intersect the old  $\frac{1}{4}$  sec. cor., which I destroy, and reestablish in the same place as follows:  
 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,  
 $\frac{1}{4} S 20$  in. N., and  
 $S 29, 1915$  in S. half; from which the original bearing trees,  
 A pine, 14 ins. in diam., brs.  $N.50\frac{3}{4}^{\circ}W.38$  lks. dist., marked  $\frac{1}{4} S 20 B T.$ , and  
 A pine, 24 ins. in diam., brs.  $S.17^{\circ}W.$ , 31 lks. dist., marked  $\frac{1}{4} S 29 B T.$
- From this cor., the unaccepted  $\frac{1}{4}$  sec. cor., set by Deputy Charles E. Perkins, under contract "o. 40, brs.  $N.4^{\circ}24'E.$ , 452 lks. dist., which I destroy, and the marks on the bearing trees to same.
- Thence  
 $N.87^{\circ}21'E.$ , on a true line on  $E.\frac{1}{2}$ , bet. secs. 20 and 29. Over rolling land.  
 Continue ascent, over W. slope, 26 ft.
- 9.34 Top of ascent on W. edge of flat, brs.  $N.10^{\circ}E.$  and  $S.40^{\circ}W.$
- 15.38 East edge of flat brs.  $N.30^{\circ}W.$  and  $S.30^{\circ}E.$ ; ascend SW. slope 115 ft.
- 40.34 Intersect the reestablished cor. of secs. 20, 21, 28 and 29, hereinbefore described.  
 Land, rolling and mountainous.  
 Soil, stony clay loam on malpais stone, and clay subsoil.  
 Timber, aspen, fir and pine.  
 Good growth grass.
- August 19, 1915.
- 
- August 14, 1915. From old cor. of secs. 16, 17, 20 and 21, which is a malpais stone  $12 \times 12 \times 10$  ins., loosely set in mound of stone, faintly marked, and witnessed by the 3 original bearing trees.
- 40.00 South, on a random line, bet. secs. 20 and 21. I make diligent search for the old  $\frac{1}{4}$  sec. cor., which I fail to find; therefore, continue line and measurement.
- 77.77 Fall 20 lks. E. of the old cor. of secs. 20, 21, 28 and 29, hereinbefore described.  
 True course and dist. of line, bet. secs. 20 and 21 is therefore  $N. 0^{\circ}9'E.$ , 77.77 chs.
- August 14, 1915.
- August 19, 1915. From reestablished cor. of secs. 20, 21, 28 and 29, hereinbefore described,  
 $N.0^{\circ}9'E.$ , on a true line, bet. secs. 20 and 21. Ascend SW. slope 3 ft., over stony, mountainous land, through heavy pine and aspen timber.
- .77 Top of spur, brs. NE. and SW.; descend NW slope, 106 ft.
- 9.07 Dry ravine, 20 lks. wide, course  $N. 45^{\circ}W.$ ; ascend SW. slope, 16 ft.

## Partial Resurvey of the Subdivision lines of T.9 N. R.25 E. 11

Chains

15.27 Top of spur, brs.NW. and SE.; descend 79 ft.

36.93 Dry ravine, 15 lks.wide, course NW.; ascend 3 ft.

38.88 $\frac{1}{2}$  Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished  $\frac{1}{4}$  sec.cor., marked on brass cap, $\frac{1}{4}$ .S 20 in W.,

S 21 in E., and

1915 in S.half; from which

A pine, 20 ins. in diam., brs.N.47°E., 68 lks. dist., which I mark  $\frac{1}{4}$  S 21 B T. andA pine, 22 ins. in diam., brs.S.28  $\frac{3}{4}$ °W., 41 lks.dist., which I mark  $\frac{1}{4}$  S 20 B T.At this cor., I set off 12° 57' N. on the decl.arc, and at noon, apparent time, observe the sun on the meridian and obtain a reading of 34° 08 $\frac{1}{2}$ 'N. on the lat.arc.From this cor., the unaccepted  $\frac{1}{4}$  sec.cor. set by Deputy Charles E.Perkins, under Contract No.40, brs.S.40 $\frac{1}{2}$ °E., 35 lks.dist., which I destroy, and marks on the bearing trees to same.

Continue gradual ascent 8 ft. over SW.slope.

42.75 Point of spur, brs. SE.; descend gradually about 6 ft.

77.77 Intersect the old cor.of secs. 16,17,20 and 21, hereinbefore described, which I destroy, and reestablish in the same place, as follows:

Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground for cor.of secs.16,17,20 and 21, marked on brass cap,

T 9 N, R 25 E in N., and

1915 in S.half;

S 17 in NW.,

S 16 in NE.,

S 21 in SE., and

S 20 in SW.quadrant; from which original

bearing trees,

A pine, 12 ins. in diam., brs.N.48 $\frac{1}{4}$ °E., 125 lks. dist., marked T 9 N R 25 E S 16 B T.

A pine, 18 ins. in diam., brs.S.59°W., 73 lks. dist., which I mark T 9 N R 25 E S 20 BT., and

A pine, 14 ins. in diam., brs.N.48 $\frac{1}{2}$ °W., 125 lks. dist., marked T 9 N R 25 E S 17 B T.

Establish as new bearing tree,

A pine 20 ins. in diam., brs.S.59 $\frac{1}{2}$ °E., 200 lks. dist., which I mark T 9 N R 25 E S 21 BT.

Land, rolling mountains, drains to the northwest.

Soil, stony clay loam about 8 ins. deep on stone and clay subsoil.

Timber, aspen, fir and pine.

Good growth grass.

August 19, 1915.

August 14, 1915. From old cor.of secs. 17,18,19 and 20, hereinbefore described,

East, on a random line, bet. secs.17 and 20.

40.30 Fall 22 lks.S. of the old  $\frac{1}{4}$  sec.cor., which is a malpais stone 12x10x10 ins., loosely set, marked  $\frac{1}{4}$  on N.face, witnessed by one of the original bearing trees.True course and dist. of W. $\frac{1}{2}$  bet. secs.17 and 20 is therefore N.89° 41'E., 40.30 chs.From old  $\frac{1}{4}$  sec.cor. described above,East, on a random line on E. $\frac{1}{2}$ , bet. secs.17 and 20.

40.32 Fall 4 lks. S.of the old cor. of secs. 16,17,20 and 21, hereinbefore described.

True course and dist. of E. $\frac{1}{2}$ , bet. secs.17 and 20 is therefore N.89°57'E., 40.32 chs.At this cor., I set off 14° 32 $\frac{1}{2}$ 'N. on the decl.arc; and at noon, apparent time August 14, observe the sun on the meridian, the resulting latitude being 34°09'N.

August 18, 1915.

From old cor.of secs.17,18,19 and 20, hereinbefore described

## 12. Partial Resurvey of the Subdivision lines of T.9 N., R.25 E.

Chains.

- N.89°41'E., on a true line, on W.½, bet. secs.17 and 20. Ascend NW. slope, 18 ft., over rolling, mountainous land, through heavy pine timber, along S. side of wire fence.
- 15.00 Top of low spur, brs. NW. and SE.; descend NE. slope, 16 ft.
- 16.20 Bottom of ravine, 20 lks.wide, course N.40° W.; ascend SW. slope, 17 ft.
- 33.00 Top of spur, brs.NW. and SE.; descend 10 ft.
- 33.90 Dry ravine, 10 lks.wide, course N°70°W.; ascend over SW. slope, 42 ft.
- 39.00 Top of ascent on spur, brs.NW. and SE.; descend NE.slope, 12 ft.
- 40.30 Intersect the old ¼ sec. cor. hereinbefore described, which I destroy, and reestablish in the same place as follows:  
Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for ¼ sec.cor., marked on brass cap,  
¼ S 17 in N., and  
S 20, 1915 in S.half; from which original bearing tree,  
An aspen, 12 ins. in diam., brs.N.21°E., 42 lks. dist., marks almost completely decayed away.
- Establish new bearing trees as follows:  
A pine, 12 ins. in diam., brs.N.58¼°E., 48 lks. dist., which I mark ¼ S 17 B T., and  
A pine, 16 ins. in diam., brs.S.54° E., 94 lks. dist., which I mark ¼ S 20 B T.
- Thence,  
N.89°57'E., on a true line, on E.½, bet. secs.17 and 20. Over rolling land; descend.
- 0.10 Brook, 15 lks.wide, stream clear water, 5 lks.wide, 6 ins. deep, course N.30° W.; ascend SW.slope, 59 ft.
- 40.32 Intersect the old cor. of secs.16,17,20 and 21, hereinafter described.  
Land, rolling mountains.  
Soil, poor, stony clay loam, 3rd and 4th rate.  
Timber, aspen and pine.  
Good growth bunch grass.

August 18, 1915.

August 12, 1915. At 10h. 35m. a.m., l.m.t., I set 34°06' N. on the lat.arc; 15°09½'N. on the decl.arc, and determine a meridian with the solar at the reestablished standard cor. of secs.33 and 34 on the S. bdy.of Tp., (2nd.Standard Parallel North) described in Book "C."

Thence,

North, on a random line, bet. secs.33 and 34.

- 40.00 I make a diligent search for the old ¼ sec.cor., but am unable to find any trace of same; therefore, continue line and measurement.
- 78.90 Fall 60 lks.E. of the old cor. of secs. 27,28,33 and 34, which is a malpais stone 14x12x10 ins., above ground, loosely set, marked with 3 notches on E. and 1 notch on S. edges. No cor.accessories visible.  
True course and distance of line bet. secs.33 and 34 is therefore S.0° 26'E., 78.90 chs.  
I destroy old cor. & reestablish in same place as follows:  
Set an iron post 3 ft.long, 2 ins. in dia., 24 ins. in ground for cor. of secs. 27,28, 33 and 34, marked on brass cap,  
T 9 N R 25 E in N., and  
1915 in S. half;  
S 28 in NW.,  
S 27 in NE.,  
S 34 in SE., and  
S 33 in SW. quadrant; from which  
A pine, 22 ins. in diam., brs.N.35°E., 35 lks. dist., marked T 9 N R 25 E S 27 B T.  
An aspen 12 ins. in diam., brs.S.30½°E., 88 lks.dist., marked T 9 N R 25 E S 34 B T.  
An aspen, 14 ins. in diam., brs.S.22½°W., 87 lks. dist., marked T 9 N R 25 E S 33 B T.

## Partial Resurvey of the Subdivision lines of T 9 N. R. 25 E. 13

Chains

- An aspen, 10 ins. in diam., brs. N.  $70\frac{1}{4}^{\circ}$  W., 130 lks. dist., marked T 9 N R 25 E S 28 B T.
- At this cor., I set off  $15^{\circ} 8\frac{3}{4}'$  N/ on the decl. arc, and at apparent noon, August 12, 1915, observe the sun on the meridian, and obtain a reading of  $34^{\circ} 08'$  N. on the lat. arc, which is about 01' higher than the latitude obtained on former days.
- Thence,  
S.  $0^{\circ} 26'$  E., on a true line, bet. secs. 33 and 34.  
Over level, sandy and stony land, through heavy aspen, fir, and pine timber.
- 5.00 Leave level land, brs. E. and W.; enter stony, mountainous land; ascend N. slope of the divide between the head waters of the Salt and Little Colorado rivers, through dense pine and aspen brush undergrowth.
- 38.96 Intersect the N. bdy. of the Fort Apache Indian Reservation 56 lks. N.  $76^{\circ} 10'$  E. of angle point No. 176, described in Book "B."
- At point of intersection,  
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished closing cor. of secs. 33 and 34, marked on brass cap,  
C C N of center,  
T 9 N R 25 E in N., and  
FAIR, 1915 in S. half;  
S 33 in NW., and  
S 34 in SE. sector.
- From this cor., the unaccepted closing cor. of same secs. set by Deputy Charles E. Perkins, brs. S.  $8^{\circ} 20'$  W., 9.47 chs. dist., which I destroy, and the marks on the bearing trees to same.
- 39.00 Top of the divide between the head waters of the Salt and Little Colorado rivers, brs. E. and SW.
- 39.20 Wire fence along N. bdy. of the Indian Reservation brs. N.  $80^{\circ}$  E. and S.  $80^{\circ}$  W.
- 39.45 Set an iron post 3 ft. long, 1 in. in diam., 25 ins. in the ground for reestablished  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4}$  S 33 in W.,  
S 34 in E., and  
1915 in S. half; from which  
A pine, 24 ins. in diam., brs. N.  $73^{\circ}$  E., 68 lks. dist., which I mark  $\frac{1}{4}$  S 34 B T., and  
A pine, 16 ins. in diam., brs. N.  $48\frac{3}{4}^{\circ}$  W., 15 lks. dist., which I mark  $\frac{1}{4}$  S 33 B T.
- From this cor. the unaccepted  $\frac{1}{4}$  sec. cor. set by Deputy Charles E. Perkins brs. N.  $89\frac{1}{4}^{\circ}$  W., 206 lks. dist., which I destroy, and the marks on the bearing trees to same.
- Descend SE. slope, 368 ft. over stony land.
- 76.30 Foot of descent; leave mountainous land, brs. N.  $20^{\circ}$  E., and S.  $20^{\circ}$  W. Enter level land in cienega.
- 78.90 Intersect the reestablished standard cor. of secs. 33 and 34 on S. bdy. of Tp. (described in Book "C.")  
Land, level, rolling and mountainous.  
Soil, sandy and stony clay loam, 6 to 12 ins. deep, on stone and clay subsoil.  
Timber, aspen, fir and pine.
- 
- Clouds obscure the sun at noon today, rendering an observation for latitude impossible with the solar.
- 
- From reestablished cor. of secs. 27, 28, 33 and 34, herein-  
Before described,  
N.  $89^{\circ} 57'$  W., on a random line, bet. secs. 28 and 33.
- 40.83 Fall 20 lks. S. of the old  $\frac{1}{4}$  sec. cor., which is a malpais stone 12x10x10 ins., loosely set, marked  $\frac{1}{4}$  on N. face with remains of old post lying along side of stone,

14. Partial Resurvey of the Subdivision lines of T.9 N., R.25 E.  
Chains.

- witnessed by the two original bearing trees.  
True course and dist. of E.  $\frac{1}{2}$  bet. secs. 28 and 33 is therefore S.  $89^{\circ} 40' E.$ , 40.83 chs.  
From old  $\frac{1}{4}$  sec. cor. described above,  
N.  $89^{\circ} 57' W.$  on a random line on W.  $\frac{1}{2}$  bet. secs. 28 and 33.  
39.80 Fall 64 lks. S. of the old cor. of secs. 28, 29, 32 and 33, which is a malpais stone 10x8x4 ins., above ground, loosely set, marked with 3 notches on E. and 1 notch on S. edges, witnessed by three of the original bearing trees.  
True course and dist. of W.  $\frac{1}{2}$  bet. secs. 28 and 33 is therefore S.  $89^{\circ} 02' E.$ , 39.81 chs.  
This cor. being nearly obliterated, I destroy, and reestablish it in same place, as follows:  
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked on brass cap,  
T 9 N R 25 E in N., and  
1915 in S. half;  
S 29 in NW.,  
S 28 in NE.,  
S 33 in SE., and  
S 32 in SW. quadrant; from which original bearing trees,  
A pine, 24 ins. in diam., brs. N.  $67^{\circ} E.$ , 144 lks. dist., marked T 9 N R 25 E S 28 B T.  
A pine, 26 ins. in diam., brs. S.  $53 \frac{3}{4}^{\circ} W.$ , 155 lks. dist., marked T 9 N R 25 E S 32 B T.  
A pine, 16 ins. in diam., brs. N.  $47 \frac{1}{2}^{\circ} W.$ , 79 lks. dist., marked T 9 N R 25 E S 29 B T.  
Establish new bearing tree,  
A pine, 14 ins. in diam., brs. S.  $30 \frac{3}{4}^{\circ} E.$ , 130 lks. dist., which I mark T 9 N R 25 E S 33 B T.  
Thence,  
S.  $89^{\circ} 02' E.$ , on a true line, on W.  $\frac{1}{2}$ , bet. secs. 28 and 33. Descend SE. slope, over stony, mountainous land, 10 ft., thro pine timber.  
1.80 Foot of descent in ravine, 40 lks. wide, course S.  $10^{\circ} E.$ ; ascend W. slope of mountain 230 ft.  
15.30 Ledge of rock, 10 ft. high, brs. N.  $20^{\circ} W.$ , and S.  $40^{\circ} E.$   
20.80 Top of mountain, brs. N. and S.; descend over E. slope, 30 ft.  
24.07 Wire fence along N. bdy. of the Fort Apache Indian Reservation, brs. N. and S.  
24.45 Intersect the N. bdy. of the Fort Apache Indian Reservation 30 lks. S.  $4^{\circ} 2' W.$  of the  $31 \frac{1}{2}$  mile mon., described in Book "B."  
At point of intersection, set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished closing cor. of secs. 28 and 33, marked on brass cap,  
C C E of center,  
T 9 N, R 25 E in N.,  
1915 in S., and  
FAIR in W. half;  
S 28 in NE., and  
S 33 in SW. sector.  
From this cor., the unaccepted closing cor. of same secs. set by Deputy Charles E. Perkins, under Contract No. 40 brs. S. 14 lks. dist., which I destroy, and marks on the bearing trees to same.  
Continue descent over E. slope, 206 ft.  
39.81 Intersect the old  $\frac{1}{4}$  sec. cor., hereinbefore described, which I destroy, and reestablish it in the same place as follows:  
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 28 in N., and  
S 33, 1915 in S. half; from which original bearing trees,



Partial Resurvey of the Subdivision lines of T. 9 N., R. 25 E., 15 Chains.

A pine, 12 ins. in diam., brs. N.  $5\frac{1}{2}^{\circ}$  W., 89 lks. dist., marked  $\frac{1}{4}$  S 28 B T., and  
 A dead pine, 20 ins. in diam., brs. S.  $4\frac{1}{2}^{\circ}$  E., 16 lks. dist., marked  $\frac{1}{4}$  S B T.  
 Establish new bearing tree,  
 A pine, 14 ins. in diam., brs. S.  $37\frac{1}{2}^{\circ}$  E., 41 lks. dist., which I mark  $\frac{1}{4}$  S 33 B T.  
 Thence,  
 S.  $89^{\circ} 40'$  E., on a true line, on E.  $\frac{1}{2}$ , bet. secs. 28 and 33. Over mountainous land.  
 Continue descent, over E. slope, 6 ft.  
 0.20 Foot of descent in W. edge of cienega, brs. N.  $50^{\circ}$  E. and S.  $50^{\circ}$  W.; thence over level swampy land.  
 8.35 Leave cienega, brs. N.  $10^{\circ}$  W. and S.  $40^{\circ}$  E.; ascend SW. slope, over stony land.  
 12.20 Top of ascent on point of spur, 16 ft. above cienega, brs. N.  $10^{\circ}$  W., and S.  $40^{\circ}$  E.; thence over rolling land, slopes to the southeast.  
 35.80 Foot of gradual descent, 90 ft. below top of ridge; leave rolling land, brs. N.  $20^{\circ}$  E. and S.  $60^{\circ}$  W.; enter flat.  
 40.83 Intersect the reestablished cor. of secs. 27, 28, 33 and 34, hereinbefore described.  
 Land, level, rolling and mountainous.  
 Soil, sandy and stony loam, 2nd, 3rd and 4th rate.  
 Timber, aspen, fir and pine.

August 12, 1915.

August 20, 1915. At 7h. 33.5m. a.m., l.m.t., I set off  $34^{\circ} 07' N.$  on the lat. arc;  $12^{\circ} 41' N.$  on the decl. arc; and determine a meridian with the solar at the reestablished cor. of secs. 27, 28, 33 and 34, hereinbefore described.  
 Thence,  
 North, on a random line, bet. secs. 27 and 28.  
 40.00 I make a diligent search for the old  $\frac{1}{4}$  sec. cor., which I fail to find; therefore, continue line and measurement.  
 86.86 Fall 35 lks. W. of the old cor. of secs. 21, 22, 27 and 28, which is a malpais stone 12x10x8 ins., loosely set in a mound of stone, marked and witnessed as described by the surveyor general.  
 True course and dist. of line, bet. secs. 27 and 28 is therefore S.  $0^{\circ} 14' W.$ , 86.86 chs.  
 This cor. being in a dilapidated condition, I destroy and reestablish it in the same place as follows:  
 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked on brass cap,  
 T 9 N R 25 E in N., and  
 1915 in S. half;  
 S 21 in NW.,  
 S 22 in NE.,  
 S 27 in SE., and  
 S 28 in SW. quadrant; from which the original bearing trees,  
 A pine, 14 ins. in diam., brs. N.  $24^{\circ}$  E. 60 lks. dist., marked T 9 N R 25 E S 22 B T.  
 A pine, 24 ins. in diam., brs. S.  $19^{\circ}$  E., 110 lks. dist., marked T 9 N R 25 E S 27 B T.  
 A pine, 16 ins. in diam., brs. S.  $9\frac{1}{2}^{\circ}$  W., 43 lks. dist., marked T 9 N R 25 E S 28 B T., and  
 A pine, 14 ins. in diam., brs. N.  $65\frac{3}{4}^{\circ}$  W., 90 lks. dist., marked T 9 N R 25 E S 21 B T.  
 Thence,  
 S.  $0^{\circ} 14' W.$ , on a true line, bet. secs. 27 and 28.  
 Descend SW. slope, 65 ft. over stony, mountainous land, through heavy pine timber.  
 8.86 Foot of descent; leave mountainous land, brs. N.  $70^{\circ}$  W., and S.  $60^{\circ}$  E.; enter flat.  
 16.00 Leave flat, brs. E. and W.; ascend N. slope, 85 ft., over rolling, mountainous land.

16. Partial Resurvey of the Subdivision lines of T.9 N., R.25 E.

- Chains.
- 30.00 Top of spur, brs.N.45°E. and S.30°W.; descend SE.slope, 71 ft.
- 42.76 Dry creek; 6 lks.wide, course west; leave mountainous land, brs.E.and W.; enter rolling land.
- 43.43 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished  $\frac{1}{4}$  sec.cor., marked on brass cap,  
 $\frac{1}{4}$  S 28 in W.,  
 S 27 in E., and  
 1915 in S. half; from which  
 A pine, 40 ins. in diam., brs.N.29°E., 115 lks. dist., which I mark  $\frac{1}{4}$  S 27 B T., and  
 A pine, 24 ins. in diam., brs.S.84 $\frac{1}{2}$ ° W., 106 lks.dist., which I mark  $\frac{1}{4}$  S 28 B T.  
 From this cor., the unaccepted  $\frac{1}{4}$  sec.cor. set by Deputy Charles E. Perkins, under contract No.40 brs.S.0°25' E., 440 lks.dist., which I destroy, and marks on the bearing trees to same.
- 48.53 Telephone line from the Ranger station at Cienega Los Burros to St. Johns and Springerville, Arizona, brs. E. and W.
- 65.96 Center of brook, 6 lks.wide, water clear, 2 ins. deep, course N.60°W.; thence over nearly level land, slopes to the northwest.
- 86.86 Intersect the reestablished cor. of secs.27,28, 33 and 34, hereinbefore described.  
 Land, rolling and mountainous, drains to the northwest.  
 Soil, sandy and stony loam, 4 to 10 ins. deep on stony clay subsoil.  
 Timber, aspen, fir and pine.  
 Mountainous land, 20.62 chs.  
 Good grass.
- 
- From reestablished cor.of secs. 21,22,27 and 28, hereinbefore described,  
 N.89°56'W., on a random line, bet. secs.21 and 28.
- 40.46 Fall 153 lks.N.of the old  $\frac{1}{4}$  sec.cor., which is a malpais stone 14x10x6 ins., loosely set in a small mound of stone, marked and witnessed as described by the surveyor general.  
 True course and dist. of E. $\frac{1}{2}$ , bet. secs.21 and 28 is therefore N.87° 54' E., 40.49 chs.  
 From old  $\frac{1}{4}$  sec.cor. described above,  
 N.89° 56' W., on a random line, on W. $\frac{1}{2}$ , bet. secs.21 and 28.
- 40.14 Fall 154 lks.N. of the reestablished cor.of secs. 20,21, 28 and 29, hereinbefore described.  
 True course and dist.of W. $\frac{1}{2}$  bet. secs.21 and 28 is therefore N.87° 52' E., 40.17 chs.  
 Thence  
 N.87° 52'E., on a true line, on W. $\frac{1}{2}$ , bet. secs.21 and 28. Ascend gradually NW.slope, 31 ft. over rolling land, through heavy pine and aspen timber.
- 16.00 Top of low ridge, brs.N.and S.; descend E.slope, 14 ft.
- 18.60 Dry ravine, 10 lks.wide, course N.10°W.; ascend gradually 10 ft.
- 20.00 Top of ascent on W.edge of flat, brs.N.and S.;thence over nearly level land.
- 29.20 Dry ravine, 10 lks.wide, 2 ft. deep, course N.10°W.
- 30.00 Leave flat brs.N. and S.10°E.; ascend about 6 ft.,over rolling, stony land.
- 40.17 Intersect the old  $\frac{1}{4}$  sec.cor. hereinbefore described, which I destroy, and reestablish in the same place as follows:  
 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 21' in N , and  
 S 28 1915 in S.half; from which original bearing trees,

Partial Resurvey of the Subdivision lines of T.9 N., R.25 E. 17

Chains.

A dead aspen brs. N.30° E., 12 lks. dist., marked  $\frac{1}{4}$  S B T., and  
 A pine, 20 ins. in diam., brs. S.52° W., 12 lks. dist., marked  $\frac{1}{4}$  S 28 B T.  
 Establish new bearing tree,  
 A pine, 12 ins. in diam., brs. N.22° W., 27 lks. dist., which I mark  $\frac{1}{4}$  S 21 B T.  
 Thence,  
 N.87° 54' E., on a true line on E.  $\frac{1}{2}$ , bet. secs. 21 and 28.  
 Over rolling land; ascend.  
 0.82 East edge of flat brs. N.10° W. and S.10° E.; descend E. slope, 14 ft.  
 55.62 Brook, 10 lks. wide, cross stream clear water, 4 lks. wide, 4 ins. deep, course north; ascend SW. slope of spur, 112 ft., over mountainous land.  
 25.82 Top of rocky spur, brs. N.30° E. and S.30° W.; descend over SE. slope, 29 ft.  
 30.82 Head of dry ravine, 6 lks. wide, course south; ascend SW. slope, 36 ft.  
 40.49 Intersect the reestablish cor. of secs. 21, 22, 27 and 28, hereinbefore described.  
 At this cor., I set off 12° 38 $\frac{1}{2}$ ' N. on the decl. arc, and at noon, apparent time August 20, 1915, observe the sun on the meridian; the resulting latitude is 34° 09' N.  
 Land, level, rolling and mountainous.  
 Soil, poor, dry stony clay loam, 4 to 8 ins. deep on stone and clay subsoil.  
 Timber, aspen and pine.  
 Mountainous land. 34.88 chs.  
 Good growth of grass.  
 August 20, 1915.

August 25, 1915. At 7h. 33.2m., a.m., l.m.t., I set off 34° 07' N. on the lat. arc; 11° 02' N. on the decl. arc; and determine a meridian with the solar at the reestablished cor. of secs. 27, 28, 33 and 34, hereinbefore described.  
 Thence,  
 S.89° 54' E., on a random line, bet. secs. 27 and 34.  
 39.98 Find no trace of the old  $\frac{1}{4}$  sec. cor.  
 79.95 No trace of the old cor. of secs. 26, 27, 34 and 35 can be found after diligent search; therefore, continue line and measurement bet. secs. 26 and 35.  
 120.52 Fall 137 lks. S. of the old  $\frac{1}{4}$  sec. cor., which is a pine, 14 ins. in diam., marked and witnessed as described by the surveyor general.  
 True course and dist. of line back to cor. of secs. 27, 28, 33 and 34 is therefore S.89° 27' W., 120.52 chs.  
 Thence,  
 S.89° 27' W., on a trial line, setting temp. sec. and  $\frac{1}{4}$  sec. cors. at distances proportional to original distances, as follows:  
 40.17 Set temp. cor. of secs. 26, 27, 34 and 35.  
 80.35 Set temp.  $\frac{1}{4}$  sec. cor.  
 120.52 Intersect the reestablished cor. of secs. 27, 28, 33 and 34, hereinbefore described.

August 26, 1915. At 7h. 2m. a.m., l.m.t., I set off 34° 06' N. on the lat. arc; 10° 42' N. on the decl. arc, and determine a meridian with the solar at the reestablished standard cor. of secs. 34 and 35 on S. bdy. of Tp. (2nd Standard Parallel North), described in Book "C."  
 Thence,  
 North, on a random line, bet. secs. 34 and 35.  
 40.00 I make diligent search for the old  $\frac{1}{4}$  sec. cor., which I fail to find.

## 18 Partial Resurvey of the Subdivision lines of T.9 N., R.25 E.

- Chains.
- 80.00 No trace can be found after diligent search, of the old cor. of secs. 26, 27, 34 and 35; therefore, continue line and measurement, bet. secs. 26 and 27.
- 120.00 No trace of the old  $\frac{1}{4}$  sec. cor. can be found.
- 166.56 Fall 27 lks. W. of the old cor. of secs. 22, 23, 26 and 27, which is a malpais stone 16x12x6 ins., loosely set in a mound of stone, marked and witnessed, as described by the surveyor general.
- True course and dist. of line back to standard cor. of secs. 34 and 35 is therefore S.  $0^{\circ}6'W.$ , 166.56 chs.
- At this cor., I set off  $10^{\circ}37'N.$  on the decl. arc, and at noon, apparent time, August 26, 1915, observe the sun on the meridian; the resulting latitude is  $34^{\circ}08'N.$
- Thence S.  $0^{\circ}06'W.$ , on a trial line, setting temp.  $\frac{1}{4}$  sec. and sec. cors. at distances proportional to the original distances.
- 41.64 Set temp.  $\frac{1}{4}$  sec. cor.
- 83.28 Set temp. cor. of secs. 26, 27, 34 and 35.
- 87.50 A point 98 lks. E. of the temp. cor. of secs. 26, 27, 34 and 35, set on trial E. and W. line.
- 124.92 Set temp.  $\frac{1}{4}$  sec. cor.
- 166.56 Intersect the standard cor. of secs. 34 and 35.  
August 26, 1915.
- 
- August 30, 1915. At 8h. 8m. a.m., l.m.t., I set off  $34^{\circ}07'N.$  on the lat. arc;  $9^{\circ}16\frac{1}{2}'N.$  on the decl. arc, and determine a meridian with the solar at the temp. cor. of secs. 26, 27, 34 and 35, set on the E. and W. trial line.
- at a point 422 lks. N. of this temp. cor., and 98 lks. W. of temp. cor. of same secs. set on N. and S. trial line, I reestablish the sec. cor. as follows:
- Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked on brass cap,
- T 9 N, R 25 E in N., and  
1915 in S. half;  
S 27 in NW.,  
S 26 in NE.,  
S 35 in SE., and  
S 34 in SW. quadrant.
- No trees within limits. Dig pits 18x18x12 ins., in each secs.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- Thence,  
S.  $0^{\circ}34'E.$ , on a true line, bet. secs. 34 and 35.  
Over nearly level, sandy land in cienega.
- 39.35 Trail from "CC" flat to Pearce Spring, brs. N.  $70^{\circ}W.$ , and S.  $60^{\circ}E.$
- 41.25 Leave cienega, brs. N.  $60^{\circ}W.$  and S.  $50^{\circ}E.$ ; enter aspen and pine timber, brs. E. and W.; ascend N. slope, 2 ft., over mountainous land.
- 41.64 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished  $\frac{1}{4}$  sec. cor., marked on brass cap,
- $\frac{1}{4}$  S. 34 in W.,  
S 35 in E., and  
1915 in S. half; from which,  
A pine, 20 ins. in diam., brs. S.  $71^{\circ}E.$ , 49 lks. dist., which I mark  $\frac{1}{4}$  S 35 B T.  
An aspen 20 ins. in diam., brs. S.  $89^{\circ}W.$ , 44 lks. dist., which I mark  $\frac{1}{4}$  S 34 B T.
- Continue ascent over NE. slope of mountain, 446 ft., thro dense aspen and pine brush undergrowth.
- 80.00 Top of ascent on spur, brs. NE.; descend 12 ft., over SE. slope.
- 83.28 Intersect the reestablished standard cor. of secs. 34 and 35 on S. bdy. of Tp. (2nd. Standard Parallel N.) described

Chains.

in Book "C."

Land, level and mountainous.

Soil, N.40 chs. rich black damp, sandy loam, 12 ins. deep on moist clay subsoil. South, 43 chs, stony clay loam 4 to 10 ins. deep on volcanic cinders.

Timber, aspen, fir and pine.

Mountainous land, 42.00 chs.

Good growth bunch grass.

- 22.00 S.86°27'W. on a true line, bet. secs. 27 and 34. Over level, sandy land in cienega. West edge of cienega, brs.N. and S.; enter rolling land and heavy aspen and pine timber, brs.N.and S.; ascend gradually 23 ft., over NE. slope.
- 25.00 Foot of mountain brs. N. and S.; ascend steep east slope of spur, 135 ft.
- 28.75 Wire fence along N. bdy. of the Fort Apache Indian Reservation; brs.N.20°E. and S.20°W.
- 28.89 Intersect the N.bdy. of the Fort Apache Indian Reservation 38 lks.N. 19° 18'E. of Angle Point No.168, described in Book "B."

At point of intersection,

Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground for reestablished closing cor. of secs.27 and 34, marked on brass cap,

C C W of center,  
T 9 N, R 25 E in N., and  
F A I R, 1915 in S.half;  
S 27 in NW., and  
S 34 in SE. sectors.

From this cor., the unaccepted closing cor. of same secs. set by Deputy Charles E.Perkins, under Contract No.40, brs.N.19° 18'E., 3.15 chs. dist., which I destroy, and the marks on the bearing trees to same.

- 38.50 Top of spur, brs.NE. and SW.; descend NW. slope, 58 ft.
- 40.25 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished 1/4 sec.cor., marked on brass cap,

1/4 S 27 in N., and  
S 34, 1915 in S.half; from which,  
A pine, 12 ins. in diam., brs.N.25 1/2°E., 13 lks. dist., which I mark 1/4 S 27 B T., and  
A fir, 12 ins. in diam., brs.S.9°E., 11 lks. dist., which I mark 1/4 S34 B T.

From this cor., the unaccepted 1/4 sec.cor. set by Deputy Charles E.Perkins, under Contract No.40, brs.S.50°W., 2.00 chs.dist., which I destroy, and the marks on the bearing trees to same.

- 67.25 Continue descent 250 ft., over NW. slope. Foot of descent; leave mountainous land, brs.N. and S.; enter flat, brs.N. and S.
- 80.50 Intersect the reestablished cor. of secs.27,28,33 and 34, hereinbefore described.

Land, level, rolling and mountainous.

Soil of the east 20 chs. rich, dark, moist sandy loam, 12 ins. deep on damp clay subsoil. West 60 chs., sandy and stony loam, 3 to 10 ins. deep on malpais stone and volcanic ash.

Timber, aspen, fir and pine.

Mountainous land, 42.25 chs.

Good growth of grass.

At the reestablished cor. of secs. 26, 27, 34 and 35, hereinbefore described, I set off 9°12 1/2' N. on the decl. arc; and at noon, apparent time, August 30, 1915, observe the sun on the meridian, the resulting latitude being 34° 08' N.

## 20. Partial Resurvey of the Subdivision lines of T.9 N., R.25 E.

Chains.	
	Thence, N.0° 46' E., on a true line, bet. secs. 26 and 27. Over level, sandy land, in cienega.
2.92	Telephone line from the Forest ranger station to Cienega Los Burros to St. Johns and Springerville, Arizona, brs. N.60°W., and S.60°E.
3.00	Enter circular swamp, water 6 ins. deep,
14.70	Leave swamp, over rolling land.
32.00	Leave cienega, brs. NE. and SW.; ascend S. slope, over stony, mountainous land.
33.00	Enter aspen, pine and fir timber, brs. E. and W.
41.64	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 27 in W., S 26 in E., and 1915 in S. half; from which A pine, 16 ins. in diam., brs. N.77°E., 30 lks. dist., which I mark $\frac{1}{4}$ S 26 B T. A pine, 24 ins. in diam., brs. S.47 $\frac{1}{2}$ °W., 30 lks. dist., which I mark $\frac{1}{4}$ S 27 B T. This cor. is 56 ft. above cienega. Continue ascent over S. slope of divide, between head waters of the Salt and Little Colorado rivers, 109 ft.
49.11	Intersect the N. bdy. of the Fort Apache Indian Reservation 4.20 chs. N.84° 15'E. of Angle point No. 161, described in Book "B." At point of intersection, Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished closing cor. of secs. 26 and 27, marked on brass cap, C C N of center, T 9 N R 25 E in N., and F A I R, 1915 in S. half; S 27 in NW., and S 26 in SE. sector. From this cor., the unaccepted closing cor. of same secs. set by Deputy Charles E. Perkins under contract No. 40, brs. N.84° 15'E., 1.85 chs. dist., which I destroy, and the marks on the bearing trees to same.
50.52	Wire fence along N. bdy. of the Indian Reservation, brs. E. and W.
50.65	Top of the divide between the head waters of the Salt and Little Colorado rivers, brs. E. and W.; descend over N. slope, 387 ft. through dense brush undergrowth.
76.40	Dry ravine, at foot of descent, 20 lks. wide, course N.70° E.; ascend S. slope of malpais ridge, 121 ft.
83.20	Top of ridge, brs. west, and N.70°E.
83.28	Intersect the old cor. of secs. 22, 23, 26 and 27, hereinbefore described. This cor. is in a dilapidated condition; therefore, I destroy, and reestablish it in same place as follows: Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked on brass cap, T 9 N R 25 E in N., and 1915 in S. half; S 22 in NW., S 23 in NE., S 26 in SE., and S 27 in SW. quadrant; from which original bearing trees, A dead pine, 16 ins. in diam., brs. N.21 $\frac{3}{4}$ °E., 27 lks. dist., marked T 9 N R 25 E S 23 B T. A fir, 8 ins. in diam., brs. S.21°W., 12 lks. dist., marked T 9 N R 25 E S 27 B T., and A fir, 28 ins. in diam., brs. N.26 $\frac{3}{4}$ °W., 15 lks. dist., marked T 9 N R 25 E, S 22 B T. Establish as new bearing trees: A pine, 12 ins. in diam., brs. S.6 $\frac{1}{4}$ °E., 33 lks.

Partial Resurvey of the Subdivision lines of T 9 N R 25 E 27

Chains.

dist., which I mark T 9 N R 25 E S 26 B T.  
 A pine, 12 ins. in diam., brs. N.64°E., 29 lks.  
 dist., which I mark T 9 N R 25 E S 23 B T.  
 From this cor., the unaccepted cor. of same secs. set by  
 Deputy Charles E. Perkins under contract No. 40, brs. N.  
 20°E., 150 lks. dist., which I destroy, and the marks  
 on the bearing trees to same.  
 Land, level, rolling and mountainous.  
 Soil of the S. 25 chs. heavy black, sandy clay loam, 12 ins.  
 deep on damp, clay subsoil. North, 58.28 chs., stony  
 clay loam, 6 to 10 ins. deep on malpais stone and vol-  
 canic cinders.  
 Timber, aspen, fir and pine.  
 Mountainous land, 51.28 chs.  
 Good growth bunch grass.

August 30, 1915.

August 29, 1915. At 8h. 16. lm. a.m., 1.m.t., I set off  
 34°08'N. on the lat. arc; 9°37 3/4'N. on the decl. arc;  
 and determine a meridian with the solar at the reestab-  
 lished cor. of secs. 21, 22, 27 and 28.

Thence,  
 N.89°50'E. on a random line, bet. secs. 22 and 27.

40.63 Fall 48 lks. S. of the old 1/4 sec. cor., which is a malpais  
 stone in place 10x6x6 ft. above ground, marked with a  
 cross, (x) for exact cor. point, and 1/4 N. of cross, wit-  
 nessed by the two original bearing trees.  
 True course and dist. of W. 1/2 bet. secs. 22 and 27 is  
 therefore S.89°09'W., 40.63 chs.

From old 1/4 sec. cor. described above,  
 N.89°50'E. on a random line on E. 1/2, bet. secs. 22 and 27.

40.45 Fall 60 lks. S. of the old cor. of secs. 22, 23, 26 and 27,  
 later reestablished as hereinbefore described.  
 True course and dist. of E. 1/2, bet. secs. 22 and 27 is there-  
 fore S.88°59'W., 40.46 chs.

Thence,  
 S.88°59'W., on a true line on E. 1/2, bet. secs. 22 and 27.

Ascend 39 ft. along top of ridge, over mountainous land,  
 through heavy pine and fir timber and brush.

6.00 Top of ridge, brs. N.80°E. and S.80°W.; descend 102 ft.,  
 over NW. slope.

13.15 Head of dry ravine, 5 lks. wide, course north; ascend 223  
 ft.

22.30 Rock ledge 30 ft. high, brs. N.20 ft. and S.100 ft.

25.10 Top of spur, brs. N.20°E. and S.20°W.; descend NW. slope,  
 29 ft.

33.80 Head of dry ravine, 10 lks. wide, course N.10°E.; ascend  
 166 ft.

39.85 Rock ledge, 40 ft. high, brs. N.30°W., 150 ft. and S.30°W.,  
 40 ft.

40.46 Intersect the old 1/4 sec. cor. hereinbefore described, from  
 which original bearing trees,

A dead aspen brs. N.27°E., 21 lks. dist., marked  
 1/4 S B T., and

A dead aspen brs. S.4°W., 11 lks. dist., marked  
 1/4 S B T.

Establish a new bearing tree,

A pine, 24 ins. in diam., brs. S.3 1/2°W., 110 lks.  
 dist., which I mark 1/4 S 27 B T.

No other trees within limits; raise a mound of stone 2 ft.  
 base, 1 1/2 ft. high, N. of cor. Pits impracticable.

Thence,  
 S.89° 9'W. on true line, on W. 1/2, bet. secs. 22 and 27.

Over mountainous land.  
 Ascend NE. slope, 69 ft.

4.04 Top of mountain, brs. N.40°W. and S.30°E.; descend SW. slope  
 438 ft.

40.63 Intersect the reestablished cor. of secs. 21, 22, 27 and 28,  
 hereinbefore described.

22. Partial Resurvey of the Subdivision lines of T.9 N., R.25 E.

Chains

Land, mountainous, spurs with abrupt rocky slopes, covered with dense undergrowth of aspen and pine timber and brush.

Soil, stony, 3rd and 4th rate.

Timber, aspen, fir and pine.

Good growth of bunch grass.

August 29, 1915.

40.00

August 26, 1915. From old cor. of secs. 22, 23, 26 and 27, North, on a random line, bet. secs. 22 and 23.

I make a diligent search for the old  $\frac{1}{4}$  sec. cor., which I fail to find; therefore, continue line and measurement.

74.90

Fall 193 lks. E. of the old cor. of secs. 14, 15, 22 and 23, which is a malpais stone 12x12x12 ins., loosely set in a mound of stone, marks almost obliterated, witnessed by the four original bearing trees.

True course and dist. of line bet. secs. 22 and 23 is therefore N. 1° 29' W., 74.93 chs.

August 26, 1915.

September 1, 1915. At 2h. 30m. p.m., l.m.t., I set off 34° 08' N. on the lat. arc; 8° 27 $\frac{1}{2}$ ' N. on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 22, 23, 26 and 27, hereinbefore described.

Thence,

N. 1° 29' W., on a true line, bet. secs. 22 and 23.

Descend over NW. slope of ridge, 284 ft., over mountainous land, through heavy pine and fir timber and brush.

34.92

Dry ravine, 5 lks. wide, course N. 30° W.; ascend SW. slope, 15 ft.

37.46 $\frac{1}{2}$

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

$\frac{1}{4}$  S 22 in W., and

S 23 in E., and

1915 in S half; from which

A fir, 14 ins. in diam., brs. N. 48 $\frac{1}{2}$ ° E., 27 lks. dist., which I mark  $\frac{1}{4}$  S 23 B T.

A pine, 14 ins. in diam., brs. N. 65 $\frac{1}{2}$ ° W., 7 lks. dist., which I mark  $\frac{1}{4}$  S 22 B T.

Continue ascent, over SW. slope, 38 ft.

43.11

Ledge of rock, 30 ft. high, brs. N. 30° E., 5 chs. and S. 40° W., 4 chs. dist., descend NW. slope 200 ft.

57.77

Dry ravine, 5 lks. wide, course N. 70° W.; ascend SW. slope, 27 ft.

63.45

Top of spur, brs. N. 70° W. and S. 70° E.; descend NE. slope, 39 ft.

74.93

Intersect the old cor. of secs. 14, 15, 22 and 23, hereinbefore described, which I destroy, and reestablish in the same place as follows:

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap,

T.9 N. R. 25 E in N., and

1915 in S. half;

S 15 in NW.,

S 14 in NE.,

S 23 in SE., and

S 22 in SW. quadrant; from which, the original bearing trees,

A pine, 16 ins. in diam., brs. N. 26 $\frac{3}{4}$ ° E., 66 lks. dist., marked T 9 N R 25 E S 14 B T.

An oak, 20 ins. in diam., brs. S. 34° E., 38 lks. dist., marked T 9 N R 25 E S 23 B T.

A pine, 36 ins. in diam., brs. S. 46° W., 148 lks. dist., marked T 9 N R 25 E S 22 B T., and

An oak, 8 ins. in diam., brs. N. 31 $\frac{1}{2}$ ° W., 66 lks. dist., marked T 9 N R 25 E S 15 B T.

Land, mountainous, spurs steep rocky, covered with brush undergrowth.



Partial Resurvey of the Subdivision lines of T.9 N., R.25 E. 23

Chains.

Spoil, poor dry, stony clay loam, 3rd and 4th rate.  
Timber, aspen, fir and pine.

September 1, 1915.

August 25, 1915. At 9h. 32.2m., a.m., l.m.t., I set off 34°07'N. on the lat.arc; 10°59½'N. on the decl.arc, and determine a meridian with the solar at the old ¼ sec.cor. bet. secs.26 and 35, hereinbefore described.

Thence,

39.97 N.89°58'E., on a random line, on E.½, bet. secs. 26 and 35. Make diligent search for the old cor. of secs. 25, 26, 35 and 36, which I fail to find; therefore, continue line and measurement.

80.08 No trace can be found of old ¼ sec.cor. of secs.25 and 36.

122.32 Fall 241 lks.S. of the reestablished cor. of secs.25,30, 31 and 36 on E.bdy.of Tp. described in Book "A." True course and dist.of line back to ¼ sec.cor. of secs.26 and 35 is therefore S.88° 50'W., 122.33 chs.

Thence,

S.88°50'W., on trial line, setting temp.¼ sec.and sec.cors. at distances proportional to the original distances.

40.83 Set temp.¼ sec.cor.

81.66 Set temp.cor.of secs. 25,26,35 and 36.

122.33 Intersect the old ¼ sec.cor. bet. secs. 26 and 35, hereinbefore described.

At this cor., I set off 10° 57½'N. on the decl.arc, and at noon, apparent time Aug.25, 1915, observe the sun on the meridian; the lat.is 34° 08'N., which is about 01' higher than the latitude of this place.

August 25, 1915.

August 28, 1915. At 8h. 1.4m. a.m., l.m.t., I set off 34° 06'N. on the lat.arc; 9°59'N. on the decl.arc, and determine a meridian with the solar at the reestablished standard cor. of secs.35 and 36 on S.bdy.of the Tp. (2nd Standard Parallel North) described in Book "C."

Thence,

North, on a random line, bet. secs.35 and 36.

40.00 I make diligent search for the old ¼ sec.cor., which I fail to find.

80.00 Diligent search failing to reveal the old cor.of secs.25, 26, 35 and 36, continue line and measurement.

120.00 Find no trace of old ¼ sec.cor.

167.42 Fall 16 lks.E. of the old cor.of secs.23,24,25 and 26, which is a pine 48 ins. in diam., marked as described by the surveyor general, from which original bearing trees,

A pine, 26 ins. in diam., brs.N.69°E., 115 lks. dist., marked T 9 N R 25 E S 24 B T.

A pine, 24 ins. in diam., brs.S.10°E., 172 lks. dist., marked T 9 N R 25 E S 25 B T.

A pine, 36 ins. in diam., brs.S.61°W., 98 lks. dist., marked T 9 N R 25 E S 26 B T., and

A dead pine, 14 ins. in diam., brs.N.23°W., 133 lks.dist., marked T 9 N R 25 E S 23 B T.

Establish as new bearing tree,

A pine, 8 ins. in diam., brs.N.17½°W., 109 lks. dist., which I mark T 9 N R 25 E S 23 B T.

True course and dist. of line back to standard cor.of secs. 35 and 36 is therefore S.0°3'E., 167.42 chs.

Thence,

S.0°3'E., on a trial line, setting temp.¼ sec.and sec.cors. at distances proportional to the original distances.

41.85½ Set temp.¼ sec.cor.of secs.25 and 26.

83.71 Set temp.cor. of secs. 25,26,35 and 36.

87.17 A point, 96 lks.E. of the temp.point of secs.25,26,35 and 36 on the E.and W.trial line.

125.56½ Set temp.¼ sec.cor. of secs. 35 and 36.

167.42 Intersect the reestablished standard cor.of secs.35 and 36

## Partial Resurvey of the Subdivision lines of T 9 N, R. 25 E.

Chains.

on S.bdy.of Tp. (2nd.Standard Parallel North), described in Book "C."  
 Clouds obscure the sun at noon today, rendering an observation for latitude impossible.

August 28, 1915.

August 31, 1915. At 7h. 30.5m.a.m., l.m.t., I set off  $34^{\circ} 07' N.$  on the lat.arc;  $8^{\circ} 56' N.$  on the decl.arc, and determine a meridian with the solar at the temp.cor.of secs. 25, 26, 35 and 36 on the E.and W.trial line. At a point 347 lks.N. of this temp.cor., and 96 lks.W.of temp.cor. of same secs. on N. and S.trial line, I reestablish the sec.cor., as follows:

Set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for cor.of secs. 25, 26, 35 and 36, marked on brass cap,

T 9 N, R 25 E in N., and

1915 in S;half;

S 26 in NW.,

S 25 in NE.,

S 36 in SE., and

S 35 in SW. quadrant; from which

A pine, 20 ins. in diam., brs.N. $78^{\circ} E.$  81 lks.

dist., which I mark T 9 N R 25 E S 25 B T.

A pine, 26 ins. in diam., brs.S. $61\frac{1}{2}^{\circ} E.$  131 lks.

dist., which I mark T 9 N R 25 E S 36 B T.

A pine, 28 ins. in diam., brs.S. $14^{\circ} W.$  105 lks.

dist., which I mark T 9 N R 25 E S 35 B T.

A pine, 26 ins. in diam., brs.N. $63\frac{1}{2}^{\circ} W.$  83 lks.

dist., which I mark T 9 N R 25 E S 26 B T.

From this cor., the unaccepted cor.of same secs. set by Deputy Charles E.Perkins, under contract No.40, brs.S. $15^{\circ} E.$ , 370 lks.dist., which I destroy, and the marks on the bearing trees to same.

Thence,

S. $0^{\circ} 43' E.$ , on a true line, bet. secs.35 and 36.

Ascend NE.slope, 52 ft., over stony, mountainous land, through heavy aspen and pine timber.

34.20 Top of ridge, brs.N. $10^{\circ} W.$  and S. $20^{\circ} E.$ ; descend 37 ft., over SW.slope.39.33 Telephone line from the Forest ranger station at Cienega Los Burros to St. Johns and Springerville? Arizona, brs.N. $60^{\circ} W.$  and S. $30^{\circ} E.$ 

41.70 Head of dry ravine, 6 lks.wide, course east; ascend N. slope 35 ft.

41.85 $\frac{1}{2}$  Set an iron post 3.ft.long, 1 in. in diam., 26 ins. in the ground for reestablished  $\frac{1}{4}$  sec.cor., marked on brass cap, $\frac{1}{4}$  S 35 in W.,

S 36 in E., and

1915 in S half; from which,

A fir, 20 ins. in diam., brs.S. $18^{\circ} E.$  79 lks.dist., which I mark  $\frac{1}{4}$  S 36 B T.A pine, 18 ins. in diam., brs.S. $38\frac{1}{4}^{\circ} W.$  37 lks.dist., which I mark  $\frac{1}{4}$  S 35 B T.

From this cor., the unaccepted  $\frac{1}{4}$  sec.cor. set by Deputy Charles E.Perkins, under contract No.40, brs.S. $38\frac{3}{4}^{\circ} E.$ , 116 lks.dist., which I destroy, and the marks on the bearing trees to same.

51.96 Intersect the N.bdy.of the Fort Apache Indian Reservation 52 lks.N.  $56^{\circ} 42' W.$  of Angle point No.150, described in book "B."

At point of intersection, set an iron post 3 ft.long, 2 ins. in diam., 24 ins. in the ground for reestablished closing cor. of secs. 35 and 36, marked on brass cap,

C C N of center,

T 9 N R 25 E in N., and

FAIR, 1915 in S.half;

S 36 in NE., and

S 35 in SW.sector.

## Partial Resurvey of the Subdivision lines of T.9 N., R 25 E. - 25

Chains.	
	From this cor., the unaccepted closing cor. of same secs. established by Deputy Charles E. Perkins, under contract No. 40 is identical with Angle point No. 150, described in Book "B." I destroy all marks on this tree which refer to the closing cor., and also the marks on the bearing trees which refer to same.
52.21	Top of the divide between the head waters of the Salt and Little Colorado rivers, brs. NW. and SE.; descend 65 ft. over SW. slope.
66.20	Head of dry ravine, 25 lks. wide, course west; ascend N. slope 40 ft.
68.70	Top of the divide between the head waters of the Salt and Little Colorado rivers, brs. NE. and SW.; descend 90 ft. over SE. slope.
75.67	Intersect the unaccepted closing cor. of secs. 35 and 36, set by Deputy Charles E. Perkins, under contract No. 40, which I destroy, and the marks on the bearing trees to same.
75.75	Intersect the N. bdy. of the Fort Apache Indian Reservation 2.06 chs. N. 35° 40' E. of Angle Point No. 148, described in Book "B." At point of intersection, Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished closing cor. of secs. 35 and 36, marked on brass cap, C C S of center, T 9 N R 25 E in N., 1915 in S., and FAIR in W. half; S 35 in NW., and S 36 in SE. sector.
83.71	Intersect the reestablished standard cor. of secs. 35 and 36 on S. bdy. of Tp. (2nd. Standard Parallel N.) described in Book "C." Land, mountainous. Soil, poor, dry, stony clay loam, 3rd and 4th rate. Timber, aspen, fir and pine.
-----	
	From reestablished cor. of secs. 25, 26, 35 and 36, hereinbefore described, S. 83° 58' W., on a true line, on E. half, bet. secs. 26 and 35. Ascend NE. slope, over stony, mountainous land, through heavy aspen and pine timber.
4.00	Top of spur, brs. N. 10° E. and S. 10° W.; descend NW. slope, 12 ft., through dense aspen and pine undergrowth.
16.00	Head of dry ravine, 6 lks. wide, course N. 30° W.; ascend NE. slope, 10 ft.
23.35	Intersect N. bdy. of the Fort Apache Indian Reservation 4.39 chs. N. 24° 01' W. of the 27½ mile mon., described in Book "B." At point of intersection, Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished closing cor. of secs. 26 and 35, marked on brass cap, C C E of center, T 9 N R 25 E in N., 1915 in S., and FAIR in W. half; S 26 in NE., and S 35 in SW. sector.
	From this cor., the unaccepted closing cor. of same secs. set by Deputy Charles E. Perkins, under contract No. 40, brs. S. 24° 01' E., 39 lks. dist., which I destroy, and marks on bearing trees to same.
23.80	Top of divide between the head waters of the Salt and Little Colorado rivers, brs. N. and S.; descend W. slope, 104 ft.
23.91	Wire fence along N. bdy. of the Indian Reservation brs. N. 10° W. and S. 10° E.
40.84	Intersect the old ¼ sec. cor., hereinbefore described.

## 26. Partial Resurvey of the Subdivision lines of T. 9 N. R. 25 E.

Chains

- At this cor., I set off  $8^{\circ}51'N.$  on the decl. arc, and at noon, apparent time, August 31, 1915, observe the sun on the meridian, and obtain a reading of  $34^{\circ}07'N.$  on the lat. arc.
- Thence,  
 $N.84^{\circ}33'W.$ , on a true line, on  $W.\frac{1}{2}$ , bet. secs. 26 and 35.  
 Descend W. slope, over rolling land.
- 30.37 Leave timber, brs. N. and S.  
 33.35 Road at foot of descent, 30 ft. below the  $\frac{1}{4}$  sec. cor., brs. N. and S., leads to Fort Apache, Arizona.  
 33.62 Enter cienega, brs. N. and S.  
 34.15 Telephone line from the Cienega Los Burros Forest ranger station to St. Johns and Springerville, Arizona, brs.  $N.60^{\circ}W.$  and  $S.60^{\circ}E.$   
 40.39 Intersect the reestablished cor. of secs. 26, 27, 34 and 35, hereinbefore described.  
 Land, rolling, level and mountainous.  
 Soil of the west 6 chs. rich black loam, 12 ins. deep on wet clay subsoil; east 75 chs. stony clay loam, 4 to 6 ins. deep on malpais stone and volcanic ashes.  
 Timber, aspen, fir and pine.  
 Mountainous land, 40.88 chs.  
 Good growth bunch grass.
- 
- From reestablished cor. of secs. 25, 26, 35 and 36, hereinbefore desc.  $S.88^{\circ}44'E.$ , on a true line, bet. secs. 25 and 36.  
 Descend NE. slope, 8 ft., over mountainous land, through heavy aspen, pine and fir timber.
- 6.00 Dry ravine, 10 lks. wide, course  $S.30^{\circ}E.$ ; ascend SW. slope, 10 ft.  
 14.00 Top of spur, brs.  $N.10^{\circ}W.$  and  $S.10^{\circ}E.$ ; descend SE. slope, 110 ft.  
 40.83 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished  $\frac{1}{4}$  sec. cor., marked on brass cap,  
 $\frac{1}{4} S 25$  in N., and  
 $S 36$ , 1915 in S. half; from which,  
 A pine, 48 ins. in diam., brs.  $N.65^{\circ}W.$ , 68 lks. dist., which I mark  $\frac{1}{4} S 25 B T.$ , and  
 A pine, 26 ins. in diam., brs.  $S.34^{\circ}W.$ , 86 lks. dist., which I mark  $\frac{1}{4} S 36 B T.$
- From this cor., the unaccepted  $\frac{1}{4}$  sec. cor., set by Deputy Charles E. Perkins, under contract No. 40, brs.  $S.22\frac{1}{2}^{\circ}E.$ , 185 lks. dist., which I destroy, and marks on the bearing trees to same.
- 64.70 Continue descent over E. slope, 75 ft.  
 Foot of descent; leave mountainous land and timber, brs. N. and S.; enter level, stony land.  
 81.66 Intersect the reestablished cor. of secs. 25, 30, 31 and 36, in E. bdy. of Tp., described in Book "A."  
 Land, level and mountainous, drains to the east and southeast.  
 Soil, stony, 3rd and 4th rate.  
 Timber, aspen, fir and pine.
- August 31, 1915.
- 
- September 1, 1915. At 8h. 30m. a.m., l.m.t., I set off  $34^{\circ}07'N.$  on the lat. arc;  $8^{\circ}33'N.$  on the decl. arc, and determine a meridian with the solar at the reestablished cor. of secs. 25, 26, 35 and 36, hereinbefore described.
- Thence,  
 $N.0^{\circ}36'E.$ , on a true line, bet. secs. 25 and 26.  
 Ascend 4 ft., over SE. slope, through heavy aspen and pine timber.
- 3.30 Top of spur, brs.  $N.40^{\circ}E.$  and  $S.30^{\circ}W.$ ; descend NW. slope, 59 ft.  
 22.30 Dry ravine, 20 lks. wide, course  $N.50^{\circ}W.$ ; ascend 5 ft.  
 26.30 Top of ridge, brs.  $N.30^{\circ}W.$ , and  $S.30^{\circ}E.$ ; descend NE. slope, 37 ft. to  
 40.25 The  $\frac{1}{4}$  sec. cor., set by Deputy Charles E. Perkins under contract No. 40, brs.  $E-35$  lks. dist. I destroy all

Partial Resurvey of the Subdivision lines of T 9 N. R. 25 E. 27

Chains.

trace of this  $\frac{1}{4}$  sec.cor., and the marks on the bearing trees to same.

41.85 $\frac{1}{2}$  Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in the ground for reestablished  $\frac{1}{4}$  sec.cor., marked on brass cap,

$\frac{1}{4}$  S 26 in W.,  
S 25 in E., and  
1915 in S.half; from which

A fir, 8 ins. in diam., brs.N.89°E., 37 lks.dist., which I mark  $\frac{1}{4}$  S 25 B T., and

A fir, 20 ins. in diam., brs.S 8 $\frac{1}{2}$ °W., 27 lks. dist., which I mark  $\frac{1}{4}$  S 26 B T.

62.30 Continue descent over NE slope, 200 ft.  
Dry ravine, at foot of ridge 30 lks.wide, course N.30°W.; ascend over SW. slope, 82 ft.

73.50 Top of spur, E. and W.; descend 82 ft., over NW slope.

83.71 Intersect the old cor. of secs. 23, 24, 25 and 26, hereinbefore described.

Land, mountainous.  
Soil, poor dry, stony loam, 3rd and 4th rate.  
Timber, aspen, fir and pine.  
Good growth bunch grass.

At the above described cor. I set off 8°29'N. on the decl. arc; and at noon, apparent time, Sept.1, 1915, observe the sun on the meridian, and obtain a reading of 34°08' N. on the lat.arc.

September 1, 1915.

August 29, 1915. From old cor.of secs. 22, 23, 26 and 27, hereinbefore described,

40.52 S 89°55'E., on a random line, bet. secs.23 and 26. Fall 23 lks.S. of the old  $\frac{1}{4}$  sec.cor., which is a malpais stone 12x6x6 ins., loosely set in a mound of stone, marked  $\frac{1}{4}$  on N.face. No cor.accessories visible. True course and dist. of W $\frac{1}{2}$ , bet. secs.23 and 26 is therefore S 89° 45'W., 40.52 chs.

40.17 From old  $\frac{1}{4}$  sec.cor. described above, S 89°55'E., on a random line on E $\frac{1}{2}$ , bet. secs.23 and 26. Fall 92 lks.S. of the old cor. of secs. 23, 24, 25 and 26, hereinbefore described. True course and dist. of E $\frac{1}{2}$ , bet. secs.23 and 26 is therefore S.88°46'W., 40.18 chs. Thence S 88°46'W., on a true line on E $\frac{1}{2}$ , bet. secs.23 and 26.

Descend W.slope, 2 ft., over stony, mountainous land, through pine and fir timber.

.45 Dry ravine, 25 lks.wide, course north; ascend E.slope, 34ft.

5.00 Top of spur, brs.N.and S.; descend W.slope, 26 ft.

25.20 Dry ravine, 40 lks.wide, course N.20°E.; ascend 161 ft.

40.18 Intersect the old  $\frac{1}{4}$  sec.cor. hereinbefore described, which I destroy, and reestablish in the same place as follows: 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 23 in N., and  
S 26, 1915 in S half; from which

A pine, 12 ins. in diam., brs.N.29°E., 36 lks. dist., which I mark  $\frac{1}{4}$  S 23 B T., and

A pine, 14 ins. in diam., brs.S.10 $\frac{1}{2}$ °W., 66 lks. dist., which I mark  $\frac{1}{4}$  S 26 B T.

From this cor., the unaccepted  $\frac{1}{4}$ sec.cor. set by Deputy Charles H. Perkins, under Contract No.40 brs.N.1°E., 100 lks.dist., which I destroy, and marks on bearing trees to same.

Thence, S.89°45'W., on a true line, on W $\frac{1}{2}$ , bet. secs.23 and 26. Over mountainous land. Continue ascent, over NE slope, 39 ft.

28 Partial Resurvey of the Subdivision lines of T.9 N., R.25 E.

Chains.  
 1.02 Top of spur, brs. N. 20° E.; descend NW. slope, 108 ft.  
 28.02 Dry ravine, 50 lks. wide, course N. 20° E.; ascend SE. slope, 153 ft.  
 40.32 Rock bluff, 30 ft. high, brs. N. 20° E. and S. 70° W.  
 40.52 Intersect the old cor. of secs. 22, 23, 26 and 27, later re-established as hereinbefore described.  
 Land, mountainous.  
 Soil, stony, 3rd and 4th rate.  
 Timber, aspen, fir and pine.  
 Good growth bunch grass.  
 August 29, 1915.

GENERAL DESCRIPTION.

This township contains every variety of land from level to mountainous, and the soil ranges from barren rock to rich loam. The soil of the valley land is a rich black sandy loam, capable of producing good crops without the aid of irrigation. The soil of the remaining portion of the township can nearly all be classed as 3rd rate, is covered with a very heavy growth of nutritious grasses, which affords abundant pasture for numerous herds of cattle and sheep during the summer months. Pearce Spring in sec. 31, and another small spring in sec. 34 afford the only living water discovered in the secs. which I resurveyed. The township is heavily timbered with aspen, spruce, fir, oak, and pine, many of the trees being very large. There are no settlers residing in any of the sections resurveyed by me.

Boundaries of resurveyed portion of T.9 S., R. 25 East.

Latitudes, departures and closing errors.


Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South bdy., (2nd. Std. Par. N)	S. 89° 53' W.	160.94		.33		160.94
	S. 89° 37' W.	80.64		.54		80.64
	S. 89° 49' W.	40.54		.13		40.54
	S. 89° 35' W.	40.57		.29		40.57
	S. 89° 41' W.	40.43		.22		40.43
	S. 89° 49' W.	39.45		.13		39.45
	S. 89° 54' W.	40.33		.07		40.33
West bdy., (6th. Guide Mer. E)	N. 0° 1' E.	160.54	160.54		.05	
Subdivisional bdy.	S. 89° 49' E.	40.20		.13	40.20	
	S. 89° 51' E.	40.06		.10	40.06	
	N. 0° 2' W.	81.00	81.00			.05
	N. 89° 41' E.	40.30		.22	40.30	
	N. 89° 57' E.	40.32		.03	40.32	
	S. 0° 9' W.	77.77		77.77		.20
	N. 87° 52' E.	40.17	1.50		40.14	
	N. 87° 54' E.	40.49	1.48		40.46	
	N. 89° 09' E.	40.63	.60		40.63	
	N. 88° 59' E.	40.46	.72		40.45	
	N. 89° 45' E.	40.52	.18		40.52	
	N. 88° 46' E.	40.18	.86		40.17	
	S. 0° 36' W.	83.71		83.71		.88
S. 88° 44' E.	81.66		1.80	81.64		
East bdy.	S. 0° 2' W.	40.90		40.90		.02
	S. 0° 25' W.	40.67		40.67		.29
Convergence,					.16	
	Totals,		247.13	246.92	485.10	484.59
			246.92		484.59	
	Error in latitude,		0.21			
	Error in departure,				0.51	

CERTIFICATE  
For ~~FINAL OATH~~ OF UNITED STATES SURVEYOR.  
See Book "D" of this Group.

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

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

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, Sept. 19, 1917.

The foregoing field notes of the <sup>re-</sup>survey of part of the

SUBDIVISION LINES OF

TOWNSHIP 9 NORTH, RANGE 25 EAST,

of the Gila and Salt River Base & Meridian, State of Arizona, executed by Sidney E. Blout, U.S. Surveyor, under his special instructions dated December 16, 1914, for Group 40, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys they describe, are hereby approved.

Frank P. Trott,  
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in Book "M," of Group 40, has been correctly copied from the original notes on file in this office.

  
U. S. Surveyor General.