

2784

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(1)

Book "S"
Subdivisions
FIELD NOTES

BOOK 2784

OF THE SURVEY OF

PART OF THE

SUBDIVISION LINES OF

FRACTIONAL TOWNSHIP 12 SOUTH, RANGE 32 EAST

Of the Gila and Salt River Base and Meridian,

In the State of ARIZONA

EXECUTED BY

WILLIAM B. KIMMEL

In the capacity of U. S. Surveyor, under instructions dated June 9, 1914,

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

Group No. 26, which were approved by the Commissioner of the General Land

Office, July 13, 1914, pursuant to authority contained in the Act of

Congress dated August 1, 1914

Survey commenced October 27, 1914

Survey completed November 3, 1914

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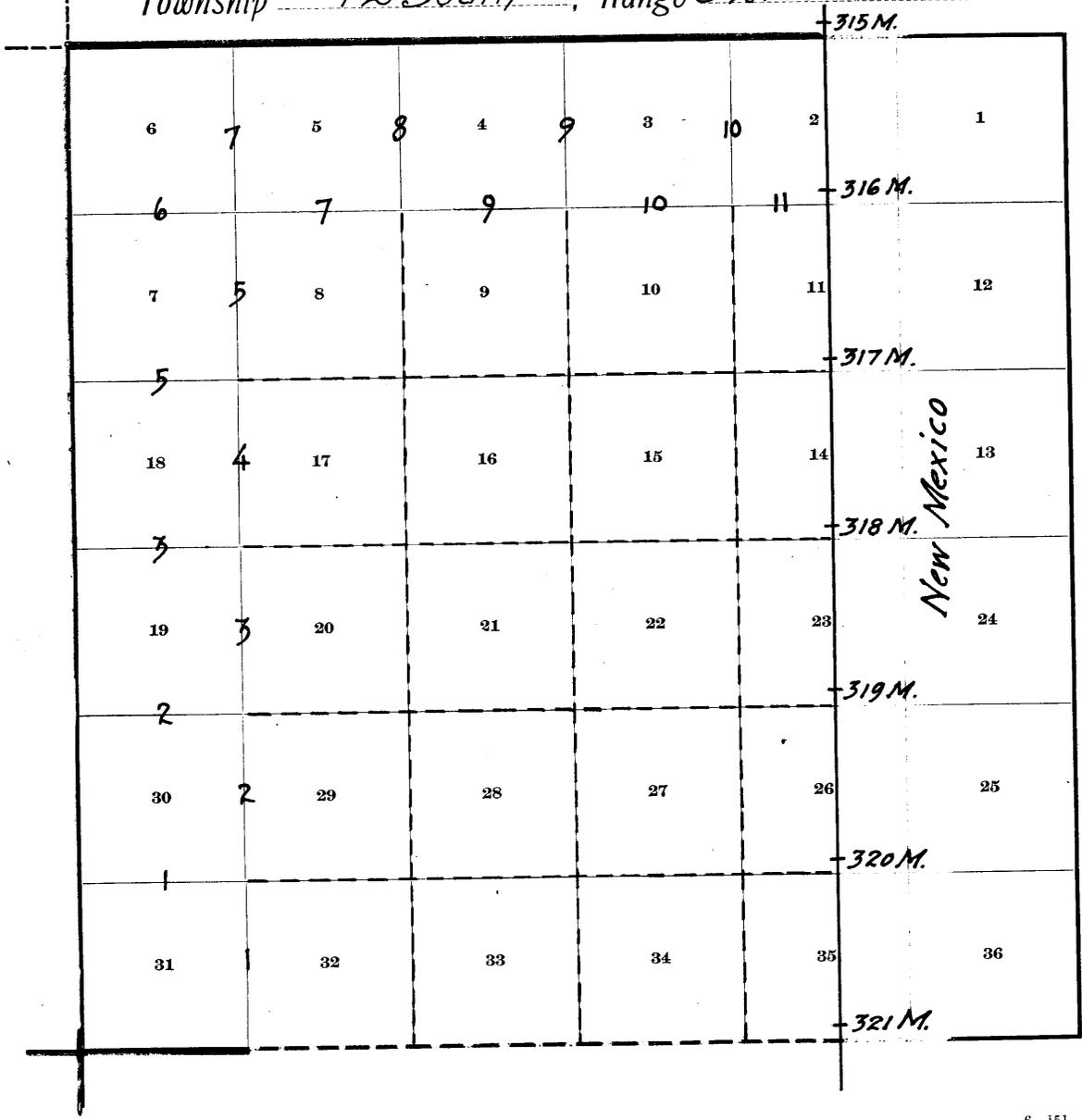
(A)

BOOK 2784

BOOK "S"

INDEX DIAGRAM.

Frac. _____
Township 12 South, Range 32 East



_____ Notes in Book "A"
 _____ Surveyed
 - - - - - Unsurveyed

Partial Subdivision of frac. Township. 12 S., R. 32 E.

Chains

Survey commenced Oct. 27, 1914, and executed with a Young and Sons' light mountain transit, No. 8588, for description and test of instrument see book "A."

From the cor. of secs. 5, 6, 31 and 32, on the south boundary of Tp., established by me, as described in Book "A."

I ran

N. $0^{\circ} 1'$ E., bet. secs. 31 and 32.

Over rolling land, through scattering undergrowth, along W. slope.

9.90 Draw, course NW.

14.00 Draw, course W., ascend SE. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 14 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim;

$\frac{1}{4}$ S31 in W. and

$\frac{1}{4}$ S32 in E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.

45.00 Oct. 27, 1914: At this cor., I set off $12^{\circ} 41'$ S. on the decl. arc; and at apparent noon, observe the sun on the meridian; the resulting latitude is $32^{\circ} 20\frac{1}{2}'$ N.

45.00 Ridge, brs. NE. and SW., 650 ft. above last draw. correct lat.

Descend NE. slope.

80.00 520 ft. below ridge, set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground, on bed rock, supported by a mound of stone, for cor. of secs. 29, 30, 31 & 32, marked on brass cap, 1914 on S. rim, T 12 S S 30 in NW.,

R 32 E S 29 in NE.,

S32 in SE. and

S31 in SW. quadrant; from which a cedar 10 ins. in diam., bears S. $72\frac{1}{2}^{\circ}$ E., 137 lks. dist., marked T 12 S R 32 E S 32. B T., no other trees available, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.

Land, mountainous.

Soil, rocky, igneous formation, 3rd and 4th rate.

Timber, scattering oak and cedar.

Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

Oct. 27, 1914.

40.00 West on a random line bet. secs. 30 and 31.

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

Intersect the W. bdy. of the Tp., 19 lks. N. of the cor. of secs. 25, 30, 31 and 36, established by me, as described in Book "A." on ground, marked and identified as

Thence I run

N. $89^{\circ} 52'$ E., on a true line bet. secs. 30 and 31.

Over rolling land, through dense undergrowth.

12.85 Draw, course SW., enter scattering undergrowth, bears NW. and SE., foot of mountain, bears NW. and SE., ascend Rocky, cliffy SW. slope.

40.07 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim, $\frac{1}{4}$ S30 on N. and

S31 on S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.

42.20 Rocky point, slopes NW., 475 ft. above foot of mountain, continue along rolling, broken, cliffy N. slope.

65.00 Spur, slopes NE., descend, E. slope.

76.00 Draw, course N., 280 ft. below spur, ascend W. slope.

78.00 Spur, slopes N., 25 ft. above draw, descend NE. slope.

80.14 The cor. of secs. 29, 30, 31 and 32, 40 ft. below spur. Land, rolling and mountainous.

Soil, rocky, igneous formation, 3rd and 4th rate.

Timber, scattering oak and cedar.

Chains

Undergrowth, first 12.85 chs. dense, ballance, scattering with patches of dense scrub oak, mesquite and catclaw. Oct. 27, 1914.

Oct. 28, 1914; at 8h 30m a.m., l.m.t., set off $32^{\circ}21'$ N. on lat. arc; $12^{\circ}57\frac{1}{2}'$ S. on decl. arc; and determine with the solar a meridian at the cor. of secs. 29, 30, 31 and 32.

Thence I run

N. $0^{\circ}1'$ E., bet. secs. 29 and 30.

Descend NE. slope, through scattering undergrowth.

8.95 Gulch, course NW., 80 ft. below cor., ascend SW. slope.

29.00 Spur, slopes W., 225 ft. above gulch, descend N. slope.

39.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground, on bed rock, supported by a mound of stone, for WC to $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim, WC N of center;

$\frac{1}{2}$ S30 on W. and

S29 on E. half; from which a cedar 6 ins. in diam.,

bears N. $88\frac{1}{2}^{\circ}$ W., 83 lks. dist., marked WC $\frac{1}{4}$ S 30 B T .

An oak 5 ins. in diam., bears N. 60° E., 175 lks. dist.,

marked WC $\frac{1}{4}$ S 29 B T. Ward Spring brs. S. 80° W. about 7 chs. dist.

40.00 Point for ~~the~~ sections, corner at bottom of chs. dist.,

40.00 Bottom of canyon, course SW., impracticable to set cor.,

190 ft. below spur, ascend cliffy SE. slope.

64.00 Ridge, bears E. and SW., 455 ft. above canyon, descend NW. slope.

74.60 Draw, course NW.

80.00 320 ft. below ridge, set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 19, 20, 29 and 30, marked on brass cap; 1914 on S. rim,

T12S S19 on NW.,

R32E S20 in NE.,

S29 in SE. and

S30 in SW. quadrant; from which a cedar 8 ins. in

diam., bears S. 37° W., 61 lks. dist., marked T 12 S

R 32 E S 30 B T ., no other trees available, raise a

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

pits impracticable.

Land, mountainous.

Soil, stony, 3rd and 4th rate.

Timber, scattering oak and cedar.

Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

Oct. 27, 1914.

Note: Oct. 28, 1914; At the corner of secs. 19, 20, 29 and 30, set off $13^{\circ}01'$ S. on the decl. arc; and at apparent noon, observe the sun on the meridian, the resulting lat. is $32^{\circ}22'$ N., which is the correct lat.

Thence I run

S. $89^{\circ}52'$ W., on a random line bet. secs. 19 and 30.

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

79.95 Intersect the W. bdy. of the Tp., 7 lks. N. of the cor. of secs. 19, 24, 25 and 30, established by me as described in Book "A." under the mound of stone,

marked and witnessed as described in book

Thence I run

N. $89^{\circ}49'$ E., on a true line bet. secs. 19 and 30.

Descend NE. slope, through scattering undergrowth.

10.00 Draw, course NW., 150 ft. below cor., ascend W. slope.

16.00 Spur, slopes NW., 50 ft. above draw, descend NE. slope.

30.00 Foot of descent, bears NW. and SE.; 50 ft. below spur, wash; 80 lks. wide, 3 ft. deep, course NW., continue rolling slopes S.

36.85 Wash, 75 lks. wide, 3 ft. deep, course SW., continue rolling slopes N. slope.

39.975 Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec cor., marked on brass cap; 1914 on S. rim,

$\frac{1}{2}$ S19 on N. and

S30 on S. half; from which a cedar 8 ins. in

frac.

Partial subdivision of T. 12 S., R. 32 E.

Chains

diam, bears S. $72\frac{1}{2}^\circ$ W., 14 lks. dist., marked $\frac{1}{4}$ S 30 BT.
 A catclaw 10 ins. in diam., bears N. 11° W., 152 lks. dist., marked $\frac{1}{4}$ S 19 B T .

41.00 Ascend NW. slope.
 52.00 Rocky point, slopes N., 125 ft. above 41 ch. point, continue along rolling N. slope.
 76.60 Draw, course NW., ascend NW. slope.
 79.95 The cor. of secs. 19, 20, 29 and 30, 100 ft. above draw. Land, mountainous.
 Soil, stony, igneous formation, 3rd and 4th rate.
 Timber, scattering oak and cedar.
 Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

Oct. 28, 1914.

N. $0^\circ 1'$ E. bet. secs. 19 and 20.
 10.00 Descend NW. slope, through scattering undergrowth. Canyon, course SW., 150 ft. below cor., ascend rocky SE. slope.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 14 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim, $\frac{1}{4}$ S19 on W. and S20 on E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
 40.03 Foot of cliffs, 40 ft. high, bears NE. and SW., being impracticable to chain over cliffs, I return to the cor. of secs. 19, 20, 29 and 30. Oct. 28, 1914.
 43.00 (Approx) spur ridge, slopes SW., ascend SW. slope.

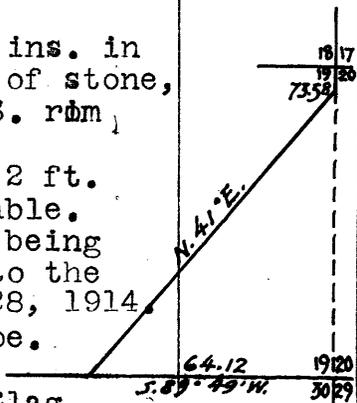
From the cor. of secs. 19, 20, 29 and 30, line flag above cliffs, bet. secs. 19 and 20, and measure a base S. $89^\circ 49'$ W., 64.12 chs. to a point, from which the flag above cliff bet. secs. 19 and 20, bears N. 41° E., therefore the dist. is $\sin. 40^\circ 59' : 64.12 \text{ chs.} :: \sin. 48^\circ 49' : \text{required dist., or } .65584 : 64.12 :: .75261 : 73.58 \text{ chs.}$

73.58 Top of West end of mountain, about 1000 ft. above 10 chs. point; top of cliffs, about 3 chs. S., cliffs bears NW. and SE., about 350 ft. high. descend NW. slope.
 80.00 75 ft. below 73.58 ch. point, set an iron post 3 ft. long, 2 in. in diam., 18 ins. in the ground, on bed rock, supported by a mound of stone, for the cor. of secs. 17, 18, 19 and 20, marked on brass cap; 1914 on S. rim, T12S S18 in NW., R32E S17 in NE., S20 in SE. and S19 in SW. quadrant; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable. Land, mountainous.
 Soil, rocky, igneous formation, 3rd and 4th rate.
 Timber, scattering oak and cedar.
 Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

Oct. 28 and 29, 1914.

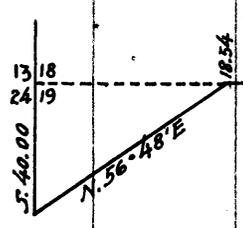
S. $89^\circ 49'$ W., on a random line bet. secs. 18 and 19. stadia across head of rocky draw, course SW., about 450 ft. deep, rod reading 9.815 ft., ratio 1 ft. = 2.00 chs., focal constant 1.025 ft., angle of depression $-13^\circ 40'$ the distance is therefore $9.815 \times 2 \times .9442 + .016 = 18.54 \text{ chs.}$
 18.54 Rod point, top of cliff, about 200 ft high, bears, NW. and SE. Set flag here, and go to

From the cor. of secs. 13, 18, 19 and 24, on west boundary of township established by me, as described in Book "A," from which, one, marked and described in book Flag on top of cliff at 18.54 chain point, bet. the flag on secs. 18 and 19, bears



frac.
Partial subdivision of T. 12 S., R. 32 E.

4 Chains



N. 89° 50' E., from the cor. of secs. 13, 18, 19 & 24 on W. bdy. of Tp., I measure a base, South 40.00 chs., to a point, from which the flag on top of cliff bet. secs. 18 and 19, bears N. 56° 48' E., therefore the dist. is $\sin. 33^\circ 2' : 40.00 \text{ chs.} :: \sin. 56^\circ 48' : \text{dist. required or } 54513 : 4000 :: .83676 : 61.40 \text{ chs.}$ which added to 18.54 chs. makes the length of line bet. secs. 18 & 19, 79.94 chs.

Thence I run
N. 89° 50' E., on a true line bet. secs. 18 and 19, Over rolling land, through dense undergrowth.

1.00 Wash, 30 lks. wide, 30 ins. deep, course SW.
4.80 Wash, 20 lks. wide, 3 ft. deep, course SW.
18.55 Draw, course SW., enter scattering undergrowth, bears NW. and SE., foot of mountain, bears NW. and SE. ascend SW. slope.

39.97 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim, $\frac{1}{4}$ S 18 on N. and S 19 on S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.

61.40 Top of cliff, bears NW. and SE., about 200 ft. high, about 650 ft. above foot of mountain, descend SE. slope.

69.50 (Approx.) Head of draw, course SW. 150 ft. below 61.40 ch. point, ascend W. slope.

79.94 The cor. of secs. 17, 18, 19 and 20, 300 ft. above 61.40 ch. point.
Land, rolling and mountainous.
Soil, sandy loam, gumbo, stony, 2nd to 4th rate.
No timber.
Undergrowth, west of 18.55 chs. dense E. of 61.39 chs. scattering with patches of dense greasewood, mesquite and catclaw. Oct. 28 and 29, 1914.

Oct. 29, 1914; at 10h a.m., l.m.t., I set off 32° 22 $\frac{1}{2}$ ' N. on the lat. arc; 13° 29 $\frac{1}{2}$ ' S. on the decl. arc; and determine with the solar a meridian at the cor. of secs. 17, 18, 19 and 20,
Thence I run
N. 0° 1' E., bet. secs. 17 and 18.
along rolling W. slope, through scattering undergrowth.

8.05 Rocky ridge, bears E. and W., Pt. for stadia, down broken, cliffy NW. slope, rod reading 7.170 ft., ratio bet. center and outside wires 1 ft. = 24.00 chs., focal distance constant 1.025 ft., angle of depression -17° 24' the distance is therefore 7.170 X 4 X .9106 + .016 = 26.13 chs. which added to 8.05 chs., makes 34.18 chs.

34.18 Rod point, on rocky spur, slopes NW., J.M. Camerons' house, bears N. 15° W., Tank, bears N. 17° W., descend N. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim, $\frac{1}{4}$ S 18 on W. and S 17 on E. half; from which a cedar 8 ins. in diam., bears S. 19 $\frac{3}{4}$ ° E., 123 lks. dist., marked $\frac{1}{4}$ S 17 B T.
A cedar 5 ins. in diam., bears S. 57 $\frac{1}{2}$ ° W., 38 lks. dist., marked $\frac{1}{4}$ S 18 B T.

47.40 Gulch, course NW., 270 ft., below 8.05 ch. point, ascend W. slope.

52.00 Spur, slopes NW., 55 ft. above gulch, J.M. Camerons' house, bears N. 31° W., Tank, bears N. 38° W., descend N. slope.

59.80 Gulch, course NW., 110 ft. below spur, ascend SW. slope.
64.00 Spur, slopes NW., 20 ft. above gulch, descend NW. slope.
67.00 Foot of descent, 30 ft. below spur, continue over rolling rocky land, slopes W.

70.00 Wash, 150 lks. wide, 2 ft. deep, course SW.,
71.50 Ascend SE. slope.
80.00 110 ft. above wash, set an iron post 3 ft. long, 2 ins. in diam., 5 ins. in the ground, on bed rock, supported by a mound of stone, for the cor. of secs. 7, 8, 17 and 18, marked on brass cap; 1914 on S. rim,

Partial Subdivision of frac. Township 12 South, Range 32 East. 5.

Chains.

T 12 S S 7 in NW.,
R 32 E S 8 in NE.,
S 17 in SE., and
S 18 in SW-quadrant; raise a mound of stone

2 ft. base, 1 1/2 ft. high; west of cor. Pits impracticable.
Oct. 29, 1914: At this cor. I set off 13° 21 1/2' S. on the decl. arc; and at apparent noon, observe the sun on the meridian; the resulting lat. is 32° 23 1/2' N.
Land, mountainous.
Soil, rocky, igneous formation, 4th rate.
Timber, scattering oak and cedar.
Undergrowth, scattering, with patches of dense scrub oak, mesquite and catclaw.

- 40.00 S. 89° 50' W., on a random line, bet. secs. 7 and 18.
- 51.40 Set temp. 1/4 sec. cor.
Point for stadia, rod reading 7.739 ft., ratio bet. center and outside wires 1 ft. = 4.00 chs., focal constant 1.025 ft., angle of depression -16° 8'; the distance is therefore 7.739 x 4 x .9228 + 1.025 x .016 = 28.58 chs., which added to 51.40 chs., makes length of line bet. secs. 7 and 18, 79.98 chs.
- 79.98 Intersect the west bdy. of the Tp., 14 lks. north of the cor. of secs. 7, 12, 13 and 18, established by me, as described in Book "A."
Thence I run,
N. 89° 44' E., on a true line, bet. secs. 7 and 18.
Along rolling, rocky south slope, through scattering undergrowth.
- 10.00 (Approx) Gulch, course SW.; ascend west slope.
- 24.30 Top of cliffs, brs. NW and SE., about 100 ft. high; continue ascending rocky W. slope.
- 30.70 Ridge, brs. NW and SE., 670 ft. above sec. cor.; descend NE. slope.
- 39.99 Set an iron post 3 ft. long, 1 in. indiam., 12 ins. in the ground, on bed rock, supported by a mound of stone, for 1/4 sec. cor., marked on brass cap,
1914 on S rim,
1/4 S 7 on N., and
S 18 on S. half; from which,
A cedar, 15 ins. in diam., brs. N. 85° E., 256 lks. dist., marked 1/4 S 7 B T.
A cedar, 10 ins. in diam., brs. S. 4 1/4° E., 147 lks. dist., marked 1/4 S 18 B T.
- 44.00 Ridge, brs. N. 80° E., and S. 80° W.; descend E. slope.
- 58.00 Trail, brs. N. and S., through saddle in ridge, saddle about 100 lks. north of line; this point is 305 ft. below the 30.70 ch. point; ascend west slope.
- 60.00 Rocky point slopes NW. on ridge, brs. NW. and SE.; ascend along north slope.
- 73.00 Ridge, brs. NE. and SW., 100 ft. above 58 ch. point; descend SE. slope.
- 79.98 The cor. of secs. 7, 8, 17 and 18, 90 ft. below ridge.
Land, mountainous.
Soil, rocky, igneous formation, 4th rate.
Timber, scattering oak and cedar.
Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

- N. 0° 1' E., bet. secs. 7 and 8.
Ascend S. slope, through scattering undergrowth.
From the cor. of secs. 7, 8, 17 and 18, stadia rod reading 7.052 ft., ratio 1 ft. = 2.00 chs., focal constant 1.025 ft., vertical angle +20° 52'; the distance is therefore 7.052 x 2 x .8731 + 1.025 x .016 = 12.33 chs.
- 9.00 (Approx.) Foot of nearly perpendicular cliff, about 100 ft. high, brs. E. and W.
- 12.33 Rod point on ridge, brs. E. and W., 315 ft. above cor.; descend NW. slope.
- 23.15 Gulch, course NW., 280 ft. below ridge; ascend west slope.

6. Partial Subdivision of frac. Township 12 South, Range 32 E.

Chains	
37.10	Spur, slopes west, 60 ft. above gulch; descend NW. slope.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim, $\frac{1}{4}$ S 7 on W., and S 8 on E. half; from which, A cedar, 10 ins. in diam., brs. N. $87\frac{1}{2}^{\circ}$ E., 176 lks. dist., marked $\frac{1}{4}$ S 8 B T. No other trees available. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable. Oct. 29, 1914.
	Oct. 30, 1914: At this cor., at 8h.a.m., l.m.t., I set off $32^{\circ} 24'$ N. on the lat. arc; $13^{\circ} 36\frac{1}{2}'$ S. on the decl. arc; and determine with the solar a meridian.
44.20	Trail brs. NE. and SW.
45.00	Canyon, course SW., 110 ft. below spur; ascend cliffy south slope.
57.50	Spur slopes SE. Ascend rolling east slope.
63.60	Draw, course SE.
76.90	Spur, slopes east, 410 ft. above canyon; descend NE. slope.
80.00	40 ft. below spur; set an iron post 3 ft. long, 2 ins. in diam., on bed rock, supported by a mound of stone, for the cor. of secs. 5, 6, 7, and 8, marked on brass cap, 1914 on S rim, T 12 S S 6 in NW., R 32 E S 5 in NE., S 8 in SE., and S 7 in SW. quadrant; from which, A cedar, 10 ins. in diam., brs. N. $66\frac{1}{4}^{\circ}$ E., 126 lks. dist., marked T 12 S R 32 E S 5 B T. A cedar limb 8 ins. in diam., brs. S. $70\frac{3}{4}^{\circ}$ E., 71 lks. dist., marked T 12 S R 32 E S 8 B T. A cedar, 10 ins. in diam., brs. S. 65° W., 162 lks. dist., marked T 12 S R 32 E S 7 B T. A cedar, 10 ins. in diam., brs. N. $46\frac{1}{2}^{\circ}$ W., 55 lks. dist., marked T 12 S R 32 E S 8 B T. Land, mountainous. Soil, rocky, igneous formation, 4th rate. Timber, scattering oak and cedar. Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.
12.71	S. $89^{\circ} 44'$ W., on a random line, bet. secs. 6 and 7. Point for stadia; rod reading 9.613 ft., ratio 1 ft. = 2.00 chs. focal constant 1.025 ft., angle of depression 8° ; the distance is therefore $9.613 \times 2 \times .9806$ plus .016 = 18.87 chs., which added to 12.71 chs. makes 31.58 chs.
31.58	Rod point.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
40.45	Point for stadia; rod reading 7.938, ratio 1 ft. = 2.00 chs., focal constant, 1.025 ft.; angle of depression $-20^{\circ} 38'$; the distance is therefore $7.938 \times 2 \times .8758$ plus .016 = 13.92 chs., which added to 40.45 chs., makes 54.37 chs.
54.37	Rod point.
80.11	Intersect the west bdy. of the Tp., 12 lks. south of the cor. of secs. 1, 6, 7 and 12, established by me, as described in Book "A." Thence I run, N. $89^{\circ} 49'$ E., on a true line, bet. secs. 6 and 7. Ascend rolling NW. slope, through scattering undergrowth.
10.70	Spur, slopes north; ascend N. slope.
12.40	Gulch, course NW.; ascend S. slope.
14.60	Same gulch, course SW.; ascend NW. slope.
25.60	Spur slopes SW.; ascend S. slope.
35.00	(Approx) Ascend cliffy NW. slope.
39.65	Spur slopes SW. Ascend W. slope.
40.055	Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim, $\frac{1}{4}$ S 6 on N., and S 7 on S. half; raise a mound

Partial S^ubdivision of frac. Township 12 S., R. 32 E. 7.

Chains.

of stone 2 ft. base, 1½ ft. high, north of cor. Pits imprac.
 48.45 Rocky point slopes south, rocky, cliffy, south slope.
 67.40 Rocky spur, slopes south, 750 ft. above sec. cor.; descend east slope.
 70.40 Wire fence, brs. NW and SE.
 80.11 The cor. of secs. 5, 6, 7 and 8, 375 ft. below rocky spur. Land, mountainous. Soil, stony, lava formation, 3rd and 4th rate, Timber, scattering oak and cedar. Undergrowth, scattering, with patches of dense scrub oak, mesquite and catclaw.

N. 0° 1' E., on a random line, bet. secs. 5 and 6.
 Note: Raining at noon, making observation for latitude impossible.
 32.32 Point for stadia; rod reading 5.208 ft., ratio 1 ft. = 2.00 chs., focal constant 1.025; vertical angle +27° 32'; the distance is therefore 5.208 x 2 x .7863 + .018 = 8.20 chs., which added to 32.32 chs., makes 40.52 chs.
 40.52 Rod point; set temp. W C to ¼ sec. cor.
 79.75 Intersect the north bdy. of the Tp., 7 lks. east of the cor. of secs. 5, 6, 31 and 32, established by me, as described in Book "A."

Thence I run,
 S. 0° 2' E., on a true line, bet. secs. 5 and 6.
 Along east slope, through scattering undergrowth.
 7.20 Draw, course NE.; ascend NW slope.
 18.75 Spur, slopes NE., 185 ft. above draw; descend SE. slope.
 27.50 Draw, course NE., 40 ft. below spur; ascend NE. slope.
 39.15 Ridge, brs. E. and W., 230 ft. above draw; set an iron post 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone, for W C to the ¼ sec. cor., marked on brass cap,

1914 on S rim,
 W C S of center,
 ¼ S 6 on W., and
 S 5 on E. half; from which,
 A cedar, 5 ins. in diam., brs. N. 44° E., 58 lks. dist., marked W C ¼ S 5 B T.

No other trees available. Raise a mound of stone 2 ft. base, 1½ ft. high, west of cor. Pits impracticable. Descend cliffy SE. slope.
 39.75 Point for ¼ sec. cor. Impossible to set ¼ sec. cor. on account of cliffs.
 49.75 Draw, course SE.; descend along cliffy E. slope.
 78.55 Draw, course E., 550 ft. below W C; ascend NE. slope.
 79.75 The cor. of secs. 5, 6, 7 and 8, 20 ft. above draw. Land, mountainous. Soil, rocky, lava formation, 4th rate. Timber, scattering oak and cedar. Undergrowth, scattering with patches of dense scrub oak; mesquite and catclaw.

Oct. 30, 1914.

Oct. 31, 1914: At 8h. a.m., l.m.t., I set off 32° 24½' N. on the lat. arc; 13° 56' S. on the decl. arc; and determine with the solar a meridian at the cor. of secs. 5, 6, 7 and 8. Thence I run, east, on a true line, bet. secs. 5 and 8. Descend NE. slope, through scattering undergrowth.
 2.00 Draw, course SE.; descend E. slope.
 10.70 Canyon, course S. 200 ft. below cor.; ascend west slope.
 31.65 Rocky spur, slopes SW., 530 ft. above canyon; continue along rolling rocky S. slope.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone, for ¼ sec. cor., marked on brass cap, 1914 on S rim,
 ¼ S 5 on N., and S 8 on S. half; from which,
 A cedar, 12 ins. in diam., brs. N. 26¼° E., 98 lks. dist., marked ¼ S 5 B T.

8. Partial Subdivision of frac. Township 12 South, Range 32 East.

Chains.	A cedar, 12 ins. in diam., brs. S. $57\frac{1}{2}^{\circ}$ W., 131 lks. dist., marked $\frac{1}{4}$ S 8 B T.
40.65	Head of gulch, course SW.; ascend west slope.
46.70	Rocky ridge, brs. N. and S.; divide bet. San Simon Valley and Playas de Los Pinos, 235 ft. above 40.65 ch. point; descend E' slope.
51.00	Descend NE. slope.
80.00	600 ft. below divide; set an iron post 3 ft. long, 2 ins. in diam., 14 ins. in the ground, on bed rock, supported by a mound of stone, for the cor. of secs. 4, 5, 8 and 9, marked on brass cap, 1914 on S. rim; T 12 S S 5 in NW., R 32 E S 4 in NE., S 9 in SE., and S 8 in SW. quadrant; from which, A cedar, 5 ins. in diam., brs. N. $53\frac{1}{4}^{\circ}$ W., 132 lks. dist., marked T 12 S R 32 E S 5 B T.
	No other trees available; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable. Land, mountainous. Soil, rocky, lava formation, 4th rate. Timber, scattering oak and cedar. Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.
20.09	N. $0^{\circ} 1'$ E., on a random line, bet. secs. 4 and 5. Pt. for stadia; rod reading 10.344 ft., ratio 1 ft. = 2.00 chs., focal constant 1.025 ft.; vertical angle $+19^{\circ} 40'$; the distance is therefore, $10.344 \times 2 \times .8867 + .016 = 18.29$ chs., which added to 20.09 chs., makes 38.38 chs.
38.38	Rod point.
38.90	Point for stadia; rod reading 7.780 ft., ratio bet. center and outside wires 1 ft. = 4.00 chs., focal constant 1.025 ft., vertical angle $+12^{\circ} 2'$; the distance is therefore, $7.780 \times 4 \times .9565 + .016 = 29.78$ chs., which added to 38.90 chs. makes 68.68 chs.
39.85	Set temp. W C to the $\frac{1}{4}$ sec. cor. Note: Cloudy at noon, rendering observation for latitude impossible.
68.68	Rod point.
68.88	Point for stadia; rod reading 5.720 ft., ratio 1 ft. = 2.00 chs., focal constant, 1.025 ft., angle of depression $-23^{\circ} 32'$; the distance is therefore $5.720 \times 2 \times .8406 + .016 = 9.63$ chs., which added to 68.88 chs., makes 78.51 chs.
78.51	Rod point.
79.70	Intersect the North bdy. of the Tp., 10 lks. east of the cor. of secs. 4, 5, 32 and 33, established by me, as described in Book "A." Thence I run, S. $0^{\circ} 3'$ E., on a true line, bet. secs. 4 and 5. Ascend NE. slope, through scattering undergrowth.
9.50	(Approx.) foot of cliff, brs. E. and W., 100 ft. high.
10.75	Top of cliff, 305 ft. above cor.
11.05	Top of cliff, 150 ft. high, brs. W. and SE.
13.00	(Approx.) foot of cliff; descend rocky SE. slope.
30.00	(Approx.) gulch, course SE., about 800 ft. below 11.05 ch. point; ascend NE. slope.
38.50	(Approx.) foot of cliff, brs. NW. and SE., 60 ft. high.
39.70	Point for $\frac{1}{4}$ sec. cor. Impossible to set $\frac{1}{4}$ sec. cor.
39.80	Top of cliff.
39.85	Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground, on bed rock, supported by a mound of stone for witness cor. to the $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim, W C N of center, $\frac{1}{4}$ S 5 on W., and S 4 on E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor. Pits impracticable.
40.25	Foot of cliff, brs. NW. and SE., 50 ft. high.
40.80	Top of cliff, spur, slopes east, about 380 ft. above 30 ch. point, 420 ft. below 11.05 ch. point; descend cliffy SE. slope.

frac.
Partial subdivision of T. 12 S., R. 32 E.

Chains

61.00 Draw, course E., 450 ft. below 40.80 ch. point, continue over rolling E. slope.
 72.00 Head of draw, course SE.
 76.40 Draw, course NE.
 79.70 The cor. of secs. 4, 5, 8 and 9.
 Land, mountainous.
 Soil, rocky, lava formation, 4th rate.
 Timber, scattering oak and cedar.
 Undergrowth, scattering with patches of dense scrub oak, mesquites and catclaw.

Oct. 31, 1914.

Nov. 2, 1914; at 9h a.m., l.m.t., set off $32^{\circ} 24\frac{1}{2}'$ N. on the lat. arc; $14^{\circ} 36\frac{1}{2}'$ S. on the decl. arc, and determine with the solar a meridian at the cor. of secs. 4, 5, 8 and 9.
 Thence I run
 East on a true line bet. secs. 4 and 9.
 Descend E. slope, through scattering undergrowth.
 14.00 Foot of mountain, bears N. and SE., 100 ft. below cor., continue over rolling land.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap; 1914 on S. rim,
 $\frac{1}{4}$ S4 on N. and
 S9 on S. half; from which a cedar 6 ins. in diam., bears S. $56\frac{1}{2}^{\circ}$ E., 107 lks. dist., marked $\frac{1}{4}$ S9BT.
 A cedar 16 ins. in diam., bears N. $58\frac{1}{2}^{\circ}$ W., 197 lks. dist., marked $\frac{1}{4}$ S 4 B T .
 40.90 Wash, 20 lks. wide, 2 ft. deep, course SE.
 68.00 Wash, 80 lks. wide, 2 ft. deep, course NE.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs., 3, 4, 9 and 10, marked on brass cap; 1914 on S. rim,
 T12S S4 in NW.,
 R32E S3 in NE.,
 S10 in SE. and
 S9 in SW. quadrant; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
 T.R. Piersons' house, bears N. 25° W., about 10 chs. dist.
 Windmill, bears N. $13\frac{1}{2}^{\circ}$ W., about 9 chs. dist.
 Land, rolling.
 Soil, sandy loam, gumbo, gravelly, rocky, igneous formation, 3rd and 4th rate.
 Timber, scattering oak and cedar.
 Undergrowth, scattering with patches of dense scrub oak, mesquite and catclaw.

N. $0^{\circ} 2'$ E., on a random line bet. secs. 3 and 4.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.72 Intersect the N. bdy. of the Tp., at the cor. of secs. 3, 4, 33 and 34, established by me, as described in Book "A."
 Thence I run
 S. $0^{\circ} 2'$ W., on true line bet. secs. 3 and 4.
 Over rolling land, through scattering undergrowth.
 39.72 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; 1914 on S. rim
 $\frac{1}{4}$ S4 on W. and
 S3 on E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
 54.00 Wagon road, bears NE. and SW.
 54.60 Wash, 20 lks. wide, 4 ft. deep, course E.
 60.45 Wire fence, bears NE. and SW.
 62.00 Wash, 20 lks. wide, 2 ft. deep, course NE.
 63.00 Piersons' corral, bears W. about 2 chs. dist.
 67.60 Wash, 95 lks. wide, 2 ft. deep, course NE.

frac.

10. Partial subdivision of T. 12 S., R. 32 E.

Chains	
70.25	Wire fence, bears NW. and SE.
77.70	Wire fence, bears NW. and SE.
79.72	The cor. of secs. 3, 4, 9 and 10. Land, rolling. Soil, sandy loam, gumbo, gravelly, 2nd and 3rd rate. No timber. Undergrowth, scattering with patches of dense mesquite and catclaw.
	Nov. 2, 1914.
	Nov. 3, 1914; at 9h 15m a.m., l.m.t., set off $32^{\circ} 24\frac{1}{2}'$ N. on the lat. arc; $14^{\circ} 55\frac{1}{2}'$ S. on the decl. arc; and determine with the solar a meridian at the cor. of secs. 3, 4, 9 and 10.
	Thence I run
	East on a true line bet. secs. 3 and 10.
	Over rolling land, through scattering undergrowth.
1.81	Wire fence, bears NW. and SE.
10.00	West end of hill, about 10 chs. N.
21.40	Wash, 30 lks. wide, 30 ins. deep, course SE.
40.00	Set an iron post 3 ft. long, 1 ins. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, 1914 on S. rim.
	$\frac{1}{4}$ S3 on N. and
	S10 on S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., pits impracticable.
56.85	Wash, 40 lks. wide, 30 ins. deep, course NE.
67.70	Wash, 60 lks. wide, 3 ft. deep, course NE.
70.30	Wash, 100 lks. wide, 3 ft. deep, course SE.
76.70	Wash, 30 lks. wide, 30 ins. deep, course NE.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 2, 3, 10 and 11, marked on brass cap, 1914 on S. rim
	T12S S3 in NW.,
	R32E S2 in NE.,
	S11 in SE. and
	S10 in SW. quadrant; from which an oak 12 ins. in diam., bears N. 65° W., .183 lks. dist., marked T 12 S R 32 E S 3 B T., no othe trees within limits, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
	Land, rolling.
	Soil, sandy loam, gumbo, gravelly, stony, 2nd and 3rd rate.
	Timber scattering oak and cedar.
	Undergrowth, scattering with patches of dense mesquite and catclaw.
	N. $0^{\circ} 2'$ E. on a random line bet. sec. 3, and frac. sec. 2.
40.00	Set temp. $\frac{1}{4}$ secs cor.
79.76	Intersect the N. bdy. of the Tp., at the cor. of secs. 2, 3, 34 and 35, established by me, as described in Book "A."
	Thence I run
	S. $0^{\circ} 2'$ W., on a true line bet. sec. 3, and frac. sec. 2.
	Over rolling land, through scattering, undergrowth.
4.80	Wagon road, bears NE. and SW.
8.50	Wire fence, bears NE. and SW.
12.00	Wash, 40 lks. wide, 3 ft. deep, course NE.
35.50	Wash, 12 lks. wide, 2 ft. deep, course NE.
39.76	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 1914 on S. rim, $\frac{1}{4}$ S3 on W. and S2 on E. half. Raise mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
57.25	Wash, 10 lks. wide, 4 ft. deep, course NE. of stone 2 ft.
60.00	East end of hill, bears W. about 16 chs. impracticable.
78.65	Wash, 40 lks. wide, 3 ft. deep, course NE.
79.76	Cor. of secs. 2, 3, 10 and 11. Note, Nov. 3, 1914, At this cor. I set off $14^{\circ} 59'$ S. on decl. arc, & at apparent noon, observe the sun on the mer., the resulting lat. is $32^{\circ} 24\frac{1}{2}'$ N.

Frac.
Partial subdivision of T. 12 S., R. 32 E.

Chains
70.70
Land, rolling. Soil, sandy loam, gumbo, gravelly, 2nd & 3rd rate. No timber. Undergrowth, scattering, with patches of dense mesquite & catclaw.

East, on true line, bet. frac. secs. 2 & 11
Over rolling land, thru scattering undergrowth.

24.90 Wash, 10 lks. wide, 3 ft. deep, course NE.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in ground, for 1/4 sec. cor., with brass cap, marked, 1914 on S. rim, 1/2 S2 on N., & S11 on S. half. Raise mound of stone, 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable.

41, 51 Intersect E. bdy. of Ariz., 8.07 chs. S. of 316 M. cor., which is a stone 9x14x12 ins. above ground, firmly set, marked 316 on N., NM. on E., 32WL on S. & ARIZ. on W. At point of intersection, I set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in ground, for closing cor. of frac. secs. 2 & 11, marked on brass cap, 1914 on S. rim, CG E. of center, NM in E. half, T125S2 in NW., & R32ES11 in SW. quad. Raise mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, rolling. Soil, sandy loam, gumbo, gravelly, rocky, 2nd to 4th rate. No timber. Undergrowth, scattering, with patches of dense mesquite & catclaw.

GENERAL DESCRIPTION.

The greater portion of this frac. township is mountainous & unfit for agricultural purposes, the portion which I subdivided including practically all of the agricultural land. The main divide of the Peloncillo Mts. extends NW. & SE. thru the tp. from the NW. cor. to the middle of the E. bdy. (Ariz.-New Mex. State bdy.) sloping to the San Simon Valley on the SW. & the Playas de los Pinos on the NE. The soil of the mountainous land is rocky, 3rd & 4th rate, that of the rolling portion in the NE. part of the tp. is a sandy, gravelly loam, 2nd & 3rd rate. The timber, which is scattering, covers the mountainous part of tp. Undergrowth of mesquite, greasewood, scrub oak & catclaw over entire tp. No running water in tp. except Ward Spring in sec. 30. There are two settlers in this tp. one in sec. 4 and one in sec. 18.

BOUNDARIES OF SUBDIVIDED PORTION OF FRAC. T. 12 S., R. 32 E.
Latitudes, Departures and Closing Errors.

Line designated	True course	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
SOUTH BOUNDARY OF TP.	WEST	80.00				
WEST "	NORTH	480.00	480.00			80.00
NORTH "	EAST	361.82			361.82	
EAST BDY. OF ARIZ.	SOUTH	79.50		79.50		
SOUTH BDY. OF SECS. 2, 3, 4 & 5	WEST	281.51				281.51
EAST BDY. OF SECS. 7, 18, 19, 30 & 31	S. 0° 1' W.	420.00		420.00		.12
CONVERGENCY					.12	
TOTALS			480.00	479.50	361.94	361.63
			479.50		361.63	

Errors in Lat. 0.50
William B. Rimmel
 0.31 Error in Departure.

U. S. Surveyor.