

No 347

BOOK 347

4-671

347

FIELD NOTES

GENERAL LAND OFFICE.

Subdivision

Township 20. N. R. 4. E.

No-347

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(4-674.)

Township 20 N. R. 4. E.

BOOK 347

BOOK 347

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Field Notes
of the survey of the
Subdivision Lines
of
Township No. 20 North, Range No 4 East.
of the
Gila and Salt River base and meridian
in the
Territory of Arizona
as surveyed by
Francis W. Army,
U. S. Deputy Surveyor
Charles F. Perkins,
Compassman and U. S. Deputy Surveyor,
under contract No. 31.
Dated June 21, 1893.

Survey commences Sept. 23, 1894.
Survey completed Sept. 27, 1894.

Subdivisions

chs Survey commences Sept. 23,
1894 with a W. and L. E.

Early solar transit.

At the cor. to secs 4, 5, 32
and 33 on the S. boundary
which is the most easterly
practicable sec. cor.

I verify the adjustments
of my instrument and
find them correct.

I observe Polaris at
its Eastern elongation at
7^h 05^m p.m. l.m.t. and
find its magnetic bearing
to be $12^{\circ} 18' W.$

North of needle $12^{\circ} 18' E.$

The azimuth of the Star is $1^{\circ} 32' E$

The sum is the variation $13^{\circ} 50' E$

Sept 24 I set off $0^{\circ} 41' 32''$ on

T. 20 N. R. 4 E.

obs. the decl. arc, and at $11\frac{1}{2}$ 53^m a.m. l.m.t., observe the Sun on the meridian; the resulting mean latitude is $35^{\circ} 02'$ N. the true lat. nearly.

At 2. p.m. I set off $35^{\circ} 02'$ on the lat. arc $0^{\circ} 19'$ S on the decl. arc, and determine a true meridian with the solar, the resulting mean variation of the needle is $13^{\circ} 50'$ E. The position for true meridians by the solar and the Polaris observations are practically the same, therefore I conclude, that the adjustments of my in-

Subdivisions

Chs.

strument are satisfactory
From the cor. to sees. 4, 5
32 and 33 on the S.
boundary of the 2^d.

I run

N. 0° 2' W. bet sees. 32 and 33

Var: 13° 50' East

over rolling heavily timbered
land.

40.00

Set a malpais stone 14
x 12 x 10 ins. 9 ins. in the
ground for $\frac{1}{4}$ sec cor.
marked $\frac{1}{4}$ on W. face,
and raised a mound of
stone $1\frac{1}{2}$ ft. high 3 ft.
base, alongside. from
which

a pine 14 ins. diam. bro.
N. 15° 27' E. 63 lks. dist.

T. 20 N. R. 4 East (cont.)

- Chs. marks $\frac{1}{4}$ S.B.T.
 a pine 14 ins. diam. ho.
 N. 7° 12' W. 92 lbs. dit.
 marks $\frac{1}{4}$ S.B.T.
- 40.81 a pine 12 ins. diam. ho
 line 9 mark with 2 notches
 on N. and S. sides.
- 65.29 a juniper 28 ins. diam.
 on line 9 marks with
 2 notches on N. and S. sides.
- 80.00 Set a malpais stone 13x
 11x9 ins. 8 ins. in the
 ground for cor. to sec. 28,
 29, 32 and 33, marked with
 1 notch on S and 4 notches
 on E. edges, and raised
 a mound of stone 2 ft. high,
 3 ft. base, along side, from
 which

Subdivisions

Chs.

a pine 7 mis. diam. hrs.

N. $61^{\circ} 28' E$. 115 lks. dist.

marked T. 20 N. R. 4 E. S. 28 B.T.

a pine 36 mis. diam. hrs.

S. $18^{\circ} 21' E$. 62 lks. dist.

marked T. 20 N. R. 4 E. S. 33 B.T.

an oak 6 mis. diam. hrs.

S. $27^{\circ} 14' W$. 53 lks. dist.

marked T. 20 N. R. 4 W. S. 32 B.T.

a juniper 8 mis. diam.

hrs. N. $59^{\circ} 37' W$. 65 lks. dist.

marked T. 20 N. R. 4 E. S. 29 B.T.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine, oak and
juniper.

Heavily timbered land 80 chs.

 East on a true line

T. 20 N. R. 4 East (contd)

Chs. bet. secs. 28 and 33.

Var. 19° 50' East.

Over rolling land.

14.00 Descent 300 ft. to

40.00 a malpais stone in place

3 x 2 x 2 ft. above ground

9 marked with a cross (+)

at exact cor. point, for 14

sec. cor. with 14 on N. of

cross, and raised a mound

of stone 2 ft. high 3 ft

base, alongside from which

a pine 12 ins. diam. has S.

37° 09' W. 37 lbs. dit. marked

14 S.B.T.

a pine 9 ins. diam. has S 11°

21' E. 61 lbs. dit. marked

14 S.B.T.

Thence over rolling land.

Subdivisions

Bks.

- 48.00 Descend abruptly 150 ft.
- 52.00 Foot of descent in bed of canon, course $S. 20^{\circ} E.$
Ascend 300 ft.
- 75.00 Top of ascent on ridge
hrs. $N. 35^{\circ} W.$ and $S. 35^{\circ} E.$
Descend 40 ft. to
- 80.00 Get a malpais stone 14×12
 $\times 10$ mis. 9 mis. in the
ground for cor. to sees 27,
28, 33 and 34, marked with
notch on S. and 3 notches
on E. edges, and raise a
mound of stone 2 ft.
high, 3 ft. base, along side,
from which
a jumper 36 mis. diam. hrs.
 $N. 46^{\circ} 11' E.$ 182 lbs. dist.
marked T. 20 N.R. 4 E. S. 27 B.T.

T. 20 N. R. 4 East. (cont)

Obs.

a juniper 36 ins. diam. hrs.

S. 440 32' E. 62 lks. dist.

marked T. 20 N. R. 4 E. S. 34 B.T.

a juniper 8 ins. diam. hrs.

S. 690 07' N. 169 lks. dist.

marked T. 20 N. R. 4 E. S. 33 B.T.

a juniper 18 ins. diam. hrs.

N. 850 30' W. 82 lks. dist.

marked T. 20 N. R. 4 E. S. 28 B.T.

Land, rolling and mountainous

Soil, stony, 3rd. rate

Timber, pine and juniper.

mountainous or heavily timbered land 80 chs.

In a few chains both N. and S. from the car to secs. 27, 28, 33 and 34, this line intersects impass-

Subdivisions

Chs. able walls of canons.

East on a true line
bet. secs. 27 and 34.

Var. $13^{\circ}50'$ East.

Over rolling top of broad
ridge, bearing $N. 20^{\circ} W.$ and $S. 20^{\circ} E.$
through scattering timber.

40.00

Set a malpais stone 12×10
 $\times 8$ ins. 8 ins. in the
ground for $\frac{1}{4}$ sec. cor. mark-
ed $\frac{1}{4}$ on N. face, and raised
a mound of stone 2 ft high,
3 ft. base, alongside, from
which

a pine 12 ins. diam. bearing $N.$
 $65^{\circ} 27' W.$ 49 lbs. dist. marked
 $\frac{1}{4}$ S.B.T.

a juniper 12 ins. diam. bearing

T20 N. R. 4 E (cont)

Obs. N. $31^{\circ} 39'$ W. 31 chs. dist. marked
 1/4 E.O.T.

at 7 chs. E of this cor. the
 line intersects the N.
 wall of the impassable
 Sycamore canon; therefore
 I abandon the line at
 this 1/4 sec. cor.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine and juniper

N. $0^{\circ} 2'$ W. bet. sec. 28 and 29.

Var. $13^{\circ} 50'$ East.

One rolling heavily timbered
 land.

20.00 Descend 400 ft.

35.15 an oak 7 ins. diam. on line
 I mark with 2 matches on N.

Subdivisions

- Obs. and S. sides:
- 35.31 a pile 16 mis. diam. on line
I mark with 2 notches on
N. and S. sides.
- 35.84 a pile 14 mis. diam. on line
I mark with 2 notches on
N. and S. sides.
- 37.28 a pile 12 mis. diam. on line
I mark with 2 notches on
N. and S. sides
- 40.00 a flat sandstone in place
I marked with a cross (+)
at exact cor. point for $\frac{1}{4}$
sec. cor. with $\frac{1}{4}$ on N. of cross,
and raised a mound of
stone, alongside, from
which
an oak 6 mis. diam. br.
S. $76^{\circ} 17' N.$ 39 lbs. dist. marked

T. 20 N. R. 4 E. (cont'd)

Obs.

1/4 E.B.T.

a pine 10 ins. diam. hrs. N.

28° 43' N. 93 lbs wt.

marked 1/4 E.B.T.

44.00

Foot of descent in bed of
cañon, course S 30° E.

descent 350 ft.

64.00

Top of ascent, thence over
rolling land.

72.16

a pine 36 ins. diam. on line
S mark with 2 notches on
N. and S sides.

80.00

Get a malpais stone 18 x 14 x 12
ins. 12 ins. in the ground
for cor. to secs. 20, 21, 28 and29 marked with 2 notches
on S and 4 notches on E.edges, and raised, a mound
of stone 2 1/2 ft high, 3 ft.

Subdivisions

Chs. base, alongside, from which
 an oak 8 mis. diam. has. N.
 $82^{\circ} 30' E.$ 12 lks. dist. marked
 T. 20 N. R. 4 E. S. 21 B.T.

a pine 10 mis. diam. has
 $S. 40^{\circ} 08' E.$ 57 lks. dist.
 marked T. 20 N. R. 4 E. S. 28 B.T.

a pine 30 mis. diam. has.
 $S. 64^{\circ} 59' W.$ 126 lks. dist.
 marked T. 20 N. R. 4 E. S. 29 B.T.

a pine 12 mis. diam. has.
 N. $82^{\circ} 80' W.$ 63 lks. dist.
 marked T. 20 N. R. 4 E. S. 20 B.T.

Land, rolling and mountainous.
 Soil, stony, 3rd rate.
 Timber, pine, oak and
 juniper.
 mountainous or heavily
 timbered land 80 chs.

T. 20 N. R. 4 East (cont)

Obs!

East on a true line
bet sees. 21 and 26.Var. $13^{\circ}50'$ East.ever rolling heavily timbered
land

+0.00 Set a malpais stone $18 \times$
 12×9 ins. 12 ins. in the
ground for $\frac{1}{4}$ sec. cor. marker
 $\frac{1}{4}$ on N. face, and raised
a mound of stone 2 ft.
high, 3 ft. base, along side.
from which,

a pine 24 ins. diam. bro.
 $\angle 61^{\circ}28'$ E. 27 lks. dist.
marker $\frac{1}{4}$ S.O.T.

a pine 14 ins. diam. bro.
N. $43^{\circ}14'$ W. 72 lks. dist.
marker $\frac{1}{4}$ S.O.T.

70.23 a pine 6 ins. diam. bro.

Subdivisions

- Chs. line I mark with 2 notches on E. and W. sides.
- 75.70 The W. wall of Sycamore Canon, a canon 1000 ft. deep.
- Set a malpais stone 18 x 12 x 8 ins. 12 ins. in the ground for witness corner to cor. to secs. 21, 22, 27 and 28, marked W.C. on W. face, with 2 notches on E. and 3 notches on E. edges and raised a mound of stone 2 ft high, 3 ft base alongside, from which a pine 18 ins. diam. bes. N. 35° 21' W. 120 lbs. dist. marked T. 20 N.R. 4 E. S. 21 D.T. W.C. a pine 6 ins. diam. bes. N. 5°

T. 20 N. R. 4 E. Cont'd

Chs.

E. 68 lks. dist. marked T.
20 N. R. 4 E. S. 22 D. T. W. C.
no other trees within limits.

Sand, rolling.

Soil stony, 30 rate.

Timber, pine and juniper

Heavily timbered land 75.70 chs.

| N. $0^{\circ} 2' W$ bet sec. 20 and 21.

Var. $13^{\circ} 50'$ East.

over rolling heavily timbered
land.

7.50 Rail fence N. $60^{\circ} E$. and S.
 $60^{\circ} W$.

40.00 A flat sand stone in place
marked with a cross (+)
at exact cor point, for $\frac{1}{4}$
sec. cor. with $\frac{1}{4}$ on W. of
cross and raised a mound

Subdivisions

Chs! of stone 2 ft high, 3 ft. base, alongside, from which

a juniper 20 mis. diam
 No. 3. $65^{\circ} 27' N.$ 31 lks. dist.
 marked $\frac{1}{4}$ S.O.T.

an oak 8 mis. diam. No. 4.
 $67^{\circ} 31' E.$ 45 lks. dist. marked
 $\frac{1}{4}$ S.O.T.

73.40 a pine 12 mis. diam. on
 line I marked with 2
 notches on N. and S. sides.

80.00 Set a malpais stone 18
 $\times 14 \times 12$ mis. 12 mis. in the
 ground for cor. to secs. 16, 17
 20 and 21, marked with 3
 notches on S. and 4 notches
 on E. edges, and raised a
 mound of stone 2 ft. high

T. 20 N. R. 4 E. (cont'd)

Chs! 3 ft. base, alongside, from
which

a pine 10 ins. diam. hrs.

N. $39^{\circ}12'$ E. 71 lks. dist.

marked T. 20 N. R. 4 E. S. 16 B.T.

a pine 12 ins. diam. hrs.

S. $26^{\circ}44'$ East 17 lks. dist.

marked T. 20 N. R. 4 E. S. 21 B.T.

a pine 18 ins. diam. hrs.

S. 73° W. 89 lks. dist. marked

T. 20 N. R. 4 E. S. 20 B.T.

an oak 8 ins. diam. hrs.

N. $43^{\circ}07'$ W. 69 lks. dist.

marked T. 20 N. R. 4 E. S. 17 B.T.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine, juniper and
oak.

Heavily timbered land 80 lks.

Subdivisions

Obs. Note. at 2.00 chs. towards the E. the line between secs. 16 and 21, intersects the S. W. brink of the impassable Sycamore canon 900 ft. deep, course S. E. 9, therefore discontinue the survey of this line.

Note - At 1.90 chs towards the N. the line bet. secs. 16 and 17 intersects the S. W. brink of the impassable Sycamore canon, course S. E. 9, therefore, discontinue the survey of this line.

T. 20 N. R. 4 E. (cont'd)

Chs. From the cor. to secs. 5,
6, 31 and 32, on S boundary
of the Township,
9 run

N. $0^{\circ}03'$ W. bet. secs. 31 and 32

Var. $13^{\circ}50'$ East.

Over rolling heavily timbered land.

40.00 Set a malpais stone $16 \times$
 12×8 ins. 11 ins. in the
ground for 74 sec. cor-
marker 74 on W. face, and
raised a mound of stone
2 ft. high, 3 ft. base,
alongside, from which
a pine 10 ins. diam. bes.
S. $86^{\circ}14'$ E. 23 lbs. dist.
marker 74 C.B.T.
an oak 12 ins. diam. bes.

Subdivisions

Obs. S. $67^{\circ} 20'$ W. 19 lks. dist. marked
14 S.O.T.

80.00 Set a malpais stone 16×12
 $\times 10$ ins. 11 ins. in the ground
for cor to sec. 29, 30, 31, and
32, marked with 1 notch
on S. and 5 notches on E.
edges, and raised a
mound of stone 2 ft
high, 3 ft. base, alongside
from which
a pine 14 ins. diam. bes.
N. $68^{\circ} 38'$ E. 97 lks. dist.
marked T. 20 N.R. 4 E. S. 29 S.T.
a pine 20 ins. diam. bes.
S. $140^{\circ} 40'$ E. 33 lks. dist.

T. 20 N. R. 4 E. (contd)

Chs. marked T. 20 N. R. 4 E. S. 32-B.T.

a pine 10 ins. diam. hrs. N. 420

53' W. 55 lbs. dit. marked

T. 20 N. R. 4 E. S. 30-B.T.

an oak 6 ins. diam. hrs

S. 520 33' W. 30 lbs dit. marked

T. 20 N. R. 4 E. S. 31-B.T.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine oak and
juniper

Heavily timbered land 80 lbs.

East on a random line
bet secs. 29 and 32.

Var. 13° 50' East.

40.00 Set temporary 1/4 sec. cor.

79.96 Intersect rand S. line //

lbs S of cor to secs. 28, 29, 32

Subdivisions

Obs. and 33

Thence I run

S. 89° 55' W. on a true line

bet sec. 29 and 32.

Var. 13° 50' East.

over rolling heavily timbered land.

9.46 a pine 10 mis. diam on line
I mark with 2 notches on
E and W. sides.

13.00 Descent 150 ft. to

39.98 Foot of descent, thence
over rolling land.

Get a malpais stone 12 x 11 x
11 mis. 8 mis. in the ground
for $\frac{1}{4}$ sec. cor. mark $\frac{1}{4}$ on
N. face, and raise a
mound of stones 2 ft.
high, 3 ft. base, alongside

T. 20 N. R. 4 E. (contd)

- Chs. from which
 a pine 26 ins. diam. hrs. S
 470 W. 17 lks. dist. marked
 1/4 S.B.T.
- a pine 27 ins. diam. hrs. N.
 490 53' E. 22 lks. dist.
 marked 1/4 S.B.T.
- 43.00 Leave heavily timbered
 land, enter open park.
- 54.00 Leave open park, enter heavily
 timbered land.
- 63.00 ascent, 100 ft. to
- 70.00 Top of ascent, thence over
 broken land.
- 79.96 The car to sees 29, 30, 31 and 32.
 Land, rolling and broken.
 Soil, stony, 30 rate.
 Timber, pine and oak.
 Heavily timbered land 68.96 chs.

Subdivisions

6hs. West on a random line
bet secs. 30 and 31.

Var. $13^{\circ} 50'$ East

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

80.03 Intersect W. boundary of 2p.
9 lbs. N. of cor. to secs. 25,
30, 31 and 36.

Thence I run

N. $89^{\circ} 56'$ E. on a true line
bet secs. 30 and 31.

Var. $13^{\circ} 50'$ East.

over rolling heavily
timbered land.

2.40 a pine 12 in. diam. on line
I mark with 2 notches on
E. and W. sides.

17.53 a pine 12 in. diam. on
line I mark with 2
notches on E. and W. sides.

T20 N.R. 4 E. (contd)

Chs!

39.06

a pine 6 ins. diam. on line
 9 mark with 2 notches on
 E. and W. sides.

40.03

Get a malpais stone 14 x
 12 x 8 ins. 9 ins. in the
 ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face, and raised
 a minimum of stone 2 ft.
 high, 3 ft. base, alongside.
 from which

a pine 30 ins. diam. has.

S. $71^{\circ} 03'$ W. 46 lks. dist.

marked $\frac{1}{4}$ S.B.T.

a pine 10 ins. diam. has.

N. $77^{\circ} 06'$ W. 60 lks. dist.

marked $\frac{1}{4}$ S.B.T.

47.00

Leave heavily timbered land
 has. N.W. and S.E. enter open
 park.

Subdivisions

bhs.

59.00 Leave open park, enter
heavily timbered land.
bcs N.W. and S.E.

64.25 a pine 10 mis. diam. on
line I marked with 2
notches on E. and W. sides.

80.03 The car. to secs. 29, 30, 31
and 32.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine, and oak.

Heavily timbered land 68.03 chs.

N. 0° 3' W. bet. secs. 29 and 30.

Var. 13° 50' East.

over rolling heavily tim-
bered land.

23.23 a pine 30 mis. diam. on
line I mark with 2 notches

T. 20 N. R. 4 E. (contd)

Cho. on N. and S sides.

40.00 Set a malpais stone 14×10
 $\times 8$, vis. 9 vis. in the ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
 on W face, and raised a
 mound of stone 2 ft. high,
 3 ft. base, alongside, from
 which

a pine 6 ins. diam. hrs. N.

$51^{\circ} 51' E.$ 38 lbs. dist. marked
 $\frac{1}{4}$ S.B.T.

a pine 6 ins. diam. hrs. S.

$77^{\circ} 01' W.$ 95 lbs. dist. marked
 $\frac{1}{4}$ S.B.T.

44.02 a pine 24 ins. diam. on
 line 9 mark with 2
 notches on N. and S sides.

59.75 a pine 44 ins. diam. on line
 9 mark with 2 notches on

Subdivisions

Obs. N. and S. sides.

67.34 a pine 40 ins. diam. on line
I mark with 2 notches on
N. and S. sides.

80.00 Get a malpais stone 12 x
10 x 8 ins. 8 ins. in the
ground for cor to sec. 19, 20,
29 and 30, marked with 2
notches on S. and 5 notches
on E. edge, and raised a
mound of stone 2 ft. high,
3 ft. base, alongside, from
which

a pine 16 ins. diam. hrs. N.
56° E. 147 lbs. net. marked
T. 20 N. R. 4 E. S. 20 B.T.

a pine 12 ins. diam. hrs.
S. 16° 14' E. 92 lbs. net. marked
T. 20 N. R. 4 E. S. 29 B.T.

T. 20 N.R. 4 E. (contd)

Obs. a pine 24 mis. diam. hrs. N.
 $84^{\circ} 19' W.$ 118 lbs. dist.
 marked T. 20 N.R. 4 E. S. 19 B.T.

a pine 8 mis. diam. hrs. N.
 $39^{\circ} 32' E.$ 148 lbs. dist.
 marked T. 20 N.R. 4 E. S. 20 B.T.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine and oak.

Heavily timbered land 80 lbs.

N. $89^{\circ} 55' E.$ on a random line
 bet. secs 20 and 29.

Var. $13^{\circ} 50' E.$

40.00 Set temporary 1/4 sec. cor.

80.07 Intersect N. and S. line 10
 lbs. N. of cor to secs. 20, 21,
 28 and 29.

Thence I run

Subdivision

- Chs. S. $89^{\circ} 59'$ W. on a true line
bet. secs 20 and 29.
Var. $13^{\circ} 50'$ East.
Over broken heavily timbered
land.
- 1.10 Wash 10 ft. deep, course S.
Ascent 100 ft.
- 3.94 Rail fence, bears N. 15° E.
and S. 10° W.
- 13.10 a pine 20 ins. diam. on
line I mark with 2
notches on E. and W. sides.
- 22.00 Ascent 100 ft. to
- 26.00 Top of ascent on ridge,
brs. N. 20° W. and S. 20° E.
Descent 150 ft. to
- 35.00 Foot of descent in bet of
ravine, course N. 10° E.
Ascent 75 ft. to

T20 N.R. 4 E. (cont)

Obs

40.04

Set a sand stone $15 \times 10 \times 8$
 ins. 10 ins. in the ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
 on N. fall, and raised a
 mound of stone 2 ft.
 high, 3 ft. base, along side,
 from which

an oak 6 ins. diam. hrs
 S. $11^{\circ} 00'$ W. 55 lbs dist.
 marked $\frac{1}{4}$ S.O.T.

an oak 7 ins. diam. hrs.
 N. $40^{\circ} 11'$ E. 58 lbs dist
 marked $\frac{1}{4}$ S.O.T.

Ascent 100 ft.

42.70

Top of ascent, ridge hrs.
 N. and S.

Descent 150 ft. to

80.07

The cor. to secs. 19, 20, 29 and 30.
 Sand, rolling and broken

Subdivisions

Chs. Soil, stony, 3rd rate.
 Timber, pine, and oak.
 Heavily timbered land
 80.07 chs.

$S 89^{\circ} 56'$ W on a random line
 bet sees. 19 and 30.

Var. $13^{\circ} 50'$ East.

40.00 Set temporary 1/4 sec. cor.

80.02 Intersect W. boundary of
 Tp. 11 chs. S. of cor to
 sees. 19, 24, 25 and 30.

Thence I run

$S 89^{\circ} 59'$ E on a true line
 bet. sees. 19 and 30.

Var. $13^{\circ} 50'$ East.

over rolling heavily
 timbered land.

Descent 40 ft. to

T. 20 N. R. 4 E. (contd)

Chs.

- 7.00 Foot of descent. Ascent
60 ft. to
- 15.00 Top of ascent, thence over
rolling mesa.
- 27.00 Descent 100 ft. to
- 39.15 Foot of descent in wash
4 ft. deep, course N 20° E.
- 40.02 a macpahi stone in place
24 x 24 1 ft. above ground &
marked with a cross (+)
at exact cor point for
1/4 sec. cor. with 1/4 on N.
of cross, and raised a
mound of stone 1 1/2 ft. high
3 ft. base, alongside, from
which
a pine 6 mis. diam. hgt. N. 43°
19' W. 57 lbs. dist. marked
1/4 S.O.T.

Subdivisions

- Chs. an oak 6 ins. diam
 loc. N. 65° 31' E. 103 chs.
 dist. marked $\frac{1}{4}$ S.B.T.
- 45.00 Ascent 100 ft. to
- 51.00 Top of ascent and descent
 50 ft. to
- 71.33 a pine 30 ins. diam. on
 line I mark with 2 notches
 on E. and W. sides.
- 80.02 There are to see. 19, 20, 29
 and 30.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine and oak.

Heavily timbered land,
 80.02 chs.

N. 0° 3' W. bet. sees. 19 and 20.

Var. 13° 50' East

T. 20 N. R. 4 E. (contd)

- Obs: can rolling heavily timbered land.
- 5.00 Ascent gradually 200 ft.
- 36.00 Top of ascent on ridge
bes E and W.
Descent 100 ft. to
- 34.60 Foot of descent in bet of
ravine, course E.
Ascent 100 ft. to
- 37.00 Top of ascent; thence over
broken rolling land.
- 40.00 Set a malpais stone 6x16
x13 ins. 11 ins. in the ground
for 1/4 sec. cor. marked 1/4 on
W. face, and raised a
manus of stone 2 ft.
high, 3 ft. base, along side,
from which
a pine 8 ins. diam. has B.

Subdivision

- Obs. $14^{\circ} 30'$ E. 39 lks. dist.
 marked $\frac{1}{4}$ L.S.T.
 A pine 12 ins diam. hrs.
 B. $39^{\circ} 59'$ W. 41 lks. dist.
 marked $\frac{1}{4}$ L.S.T.
- 41.00 Descent 100 ft
- 46.00 Foot of descent in bed of
 ravine, course E.
 ascent 80 ft. to
- 48.00 Top of ascent on ridge;
 hrs. E. and W.
 Descent 60 ft.
- 52.00 Foot of descent in bed of
 ravine, ^{draining east} ascent 100 ft.
- 62.00 Top of ascent and descent
 150 ft.
- 74.00 Foot of descent, thence
 over rolling land to
- 80.00 Set a malpais stone 18x

T. 20 N. R. 4 E. (contd)

- Obs. 16 x 12 ins. 12 ins. in the ground for cor. to secs. 17, 18, 19 and 20, marked with 3 notches on S and 5 notches on E. edges, and raised a mound of stone 2 ft high 3 ft. base, alongside from which
- a pine 11 ins. diam. hrs.
N. 22° 15' E. 82 lbs. dist.
marked T. 20 N. R. 4 E. S. 17 B. T.
- a pine 20 ins. diam. hrs.
S. 100° 29' E. 69 lbs. dist.
marked T. 20 N. R. 4 E. S. 20 B. T.
- a pine 19 ins. diam. hrs.
S. 66° 35' W. 120 lbs. dist.
marked T. 20 N. R. 4 E. S. 19 B. T.
- a pine 12 ins. diam. hrs.
N. 81° 30' W. 78 lbs. dist.

Subdivisions

chs. marked T. 20 N. R. 4 E. S. 1 SOT.
 Land, broken out rolling.
 Soil, stony, 3rd rate.
 Timber, pine and oak.
 Heavily timbered land,
 80.00 chs.

N. $89^{\circ} 59'$ E. on a random line
 bet. secs. 17 and 20.

Var. $13^{\circ} 50'$ East.

40.00 Sub temporary $\frac{1}{4}$ sec cor.

79.95 Intersect N and S. line
 7 chs S of cor to secs.
 16, 17, 20 and 21.

Thence I run

S. $89^{\circ} 56'$ W. on a true line
 bet. secs. 17 and 20.

Var. $13^{\circ} 50'$ East

over rolling heavily

T. 20 N. R. 4 E. (contd.)

- Obs. Timbered land.
- 9.62 a pine 14 ins. diam. on line
I mark with 2 matches on
E and W. sides.
- 25.30 a pine 24 ins. diam. on line
I mark with 2 matches
on E. and W. sides.
- 39.98 Set a malpais stone 10 x
9 x 8 ins. 11 ins. in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face,
and raised a mound of
stone 2 ft. high. 3 ft.
base, along side, from
which
an oak 6 ins. diam. has
N. 35° 35' W. 81 lks. dist.
marked $\frac{1}{4}$ E.B.T.
a pine 24 ins. diam. has

Subdivisions

Chs. S. $0^{\circ}56'$ E. 66 lks. dist.
marked $\frac{1}{4}$ E.S.T.

56.81 a pine 24 ins. diam on line
I mark with 2 notches on
E. and W. sides.

71.42 a pine 8 ins diam. on line
I mark with 2 notches on
E and W sides.

75.25 Road hrs. N. 10° W. and S. 10° E.

79.95 The cor to secs. 17, 18, 19 and 20.
Land, rolling.

Soil, stony, 3rd rate.

Timber, pine and oak.

Heavily timbered land.

79.95 chs.

N. $89^{\circ}59'$ W. on a random line
bet. secs. 18 and 19.

Var. $13^{\circ}50'$ East.

T-20 N.R. 4 E (contd)

Obs.

40.00

Get temporary 1/4 sec. cor

80.00

Intersect N. boundary of
Tp. 6 lks. S. of cor. to sec.
13, 18, 19 and 24.

Thence I run

S. 89° 56' E. on a true line
bet. sec. 18 and 19.

Var. 130° 50' East.

Over rolling land, heavily
timbered.

40.00

Get a malpais stone 18 x
12 x 10 ins. 12 ins. in the
ground for 1/4 sec. cor.
marked 1/4 on N. face and
raise a mound of
stone 2 ft high 3 ft. base
along side. from which
a pine 14 ins. diam. has
N. 37° 29' E. 29 lks dist.

Subdivisions

- bhs. marked $\frac{1}{4}$ E.S.T.
 a pine 16 in. diam. hrs.
 S. $67^{\circ} 43'$ W. 61 chs. dist.
 marked $\frac{1}{4}$ E.S.T.
- 80.00 The cor to sec. 17, 18, 19
 and 20.
 Lands, rolling.
 Soil, stony, 3rd rate.
 Timber, pine and oak
 Heavily timbered lands
 80 chs.
-
- N. $0^{\circ} 3'$ W. bet. sec. 17 and 18.
 Var. $130^{\circ} 50'$ East.
 Over rolling lands, heavily
 timbered.
- 8.50 Road hrs. N. 40° W. and
 S. 40° E.
- 9.00 a pine 23 in. diam. hrs.

T. 20 N.R. 4 E. (contd)

- Obs. line I mark with 2 matches
on N and S sides.
- 16.00 ascent 100 ft. to
- 31.00 Top of ascent on ridge,
hrs. N.W. and S.E.
- 40.00 Get a malpais stone $24 \times 18 \times$
13 ins. 18 ins. in the
ground for 1/4 sec. cor.
marked 1/4 on W face,
and raised a mound of
stone 2 ft high. 3 ft.
base, alongside, from
which
- an oak 6 ins. diam has
N. $85^{\circ} 44'$ E. 17 lbs. dist.
marked 1/4 S.E.T.
- a pile 10 ins. diam. hrs.
N. $170^{\circ} 30'$ W. 70 lbs dist.
marked 1/4 S.E.T.

Subdivisions

- lhs. Descent 150 ft.
 53.00 Foot of descent, thence
 over rolling land.
 54.88 a pine 12 ins. diam. on
 line, I mark with 2
 notches on N. and S. sides.
 61.00 Descent 200 ft to
 64.00 Foot of descent in
 bet of canon, course
 S. 70° E.
 Ascent 210 ft.
 77.60 Top of ascent, thence
 over rolling land.
 80.00 a flat malpais rock
 in place I mark with
 a cross⁽⁺⁾ at exact car
 point for car to see.
 7, 8, 17 and 18 with 4
 notches on S. and 5

T. 20 N. R. 4 E. (contd)

Chs. notches on E. edges, and raised a mound of stone 2 ft high, 3 ft base, along side, from which a pine 38 ins. diam. hrs. S. $60^{\circ} 49' E.$ 38 lbs. dist. marked T. 20 N. R. 4 E. S. 17 B.T.

a pine 17 ins. diam hrs. S. $120^{\circ} 22' W.$ 62 lbs. dist.

marked T. 20 N. R. 4 E. S. 18 B.T.

a pine 12 ins diam. hrs. N. $82^{\circ} 06' W.$ 23 lbs dist.

marked T. 20 N. R. 4 E. S. 7 B.T.

a pine 10 ins. diam. hrs. N. $70^{\circ} 00' W.$ 29 lbs. dist. marked T. 20 N. R. 4 E. S. 7 B.T.

Sand, ralling and broken.

Sail, stamp, 3.5 rate.

Timber, pine, and oak.

Subdivisions

Chs. Heavily timbered land 8000.

N. $89^{\circ}56'$ E. on a true line
bet sec. 8 and 17.

Var. $13^{\circ}50'$ East.

Over rolling land.

7.93 a pine 6 in. diam. on
line I mark with 2
notches on E. and W. sides.

31.00 Descent 300 ft. into Sycamore
Canon.

40.00 a Flat malpais rock
in place, I mark with
a cross at exact cor
point. for $1/4$ sec. cor
with $1/4$ on N. of cross,
and raised a mound
of stone 2 ft. high, 3 ft
base, alongside from.

T. 20 N. R. 4 E. (contd)

Chs.

which

a pine 12 ins. diam. hrs.

S. 41° ^{59. 1/2} marked 1/4 S. B. T.

a pine 12 ins diam. hrs.

N. 77° 19' W. 31 Chs. dit.

marked 1/4 S. B. T.

I discontinue the survey
of this line further east
on account of impassable
Sycamore canon.

Land, mountainous and rolling
Soil, stony, 3^d and 4th rate.

Timber, pine and oak.

Heavily timbered land 40 chs.

N. 89° 56' W. on a narrow line
bet sec. 7 and 18.

Var. 13° 50' East.

40.00

Get temporary 1/4 sec. con

Subdivisions

Chs.
80.06

Intersect w. hwy of 24.
9 chs. N. of cor. to sec.
7, 12, 13 and 18.

Thence I run

East on a true line
bet. sec. 7 and 18.

Var. $13^{\circ} 50'$ East.

Over rolling heavily
timbered land.

Descent gradually 200 ft. to

39.34 Foot of descent. Road hrs.
N. 10° W. and S. 10° E.

40.06 Get a malpais stone $16 \times$
 12×8 ins. 11 ins. in the
ground for $\frac{1}{4}$ sec. cor
marked $\frac{1}{4}$ on N. face,
and raised a mound of
stone 2 ft. high, 3 ft
base, alongside, from

T. 20 N. R. 4 E. (contd)

- Chs. which
- a pine 16 ins. diam. hrs.
 S. $16^{\circ} 13' W.$ 52 lbs. dist.
 marked 14 S.B.T.
- a pine 8 ins. diam. hrs N.
 $7^{\circ} 36' W.$ 61 lbs. dist. marked
 14 S.B.T.
- 41.50 Ravine 14 ft. deep course
 S $10^{\circ} E.$
 ascent 100 ft. etc
- 52.00 Top of ascent; thence over
 rolling land.
 a pine 18 ins. diam. on
 line I mark with 2 notches
 on E. and W. sides.
- 67.01 a pine 30 ins. diam. on
 line I mark with 2 notches
 on E. and W. sides.
- 80.06 The car to sec. 7 S. 17 and

Subdivisions

Chs.

18.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine and oak
heavily timbered land
81.06 chs.

N. 0° 3' W. bet. secs. 7 and 8.

Var. 13050' East.

over rolling heavily Tim-
bered land.

12.30 Descent 300 ft.

23.49 a pine 14 ins. diam on
line I mark with 2
notches on N and S sides.26.53 a pine 8 ins. diam. on
line which I mark
with 2 notches on N and S sides.

30.67 at this point the line

T. 20 N. R. 4 E. (contd)

Obs.

intersects the E. W. brink
of the impassable
Lycamore canon, 600 ft.
deep, course S. E.

Set an oak post 4 ft.
long, 4 ins. square, 12 ins
in the ground for witness
corner marked $\frac{1}{4}$ S. W. C. on
S. face, and raised a mound
of stone $1\frac{1}{2}$ ft. high, 3 ft.
base around post, from
which

a pine 12 ins. diam. hrs.
N. $57^{\circ} 57'$ W. 32 lks. dist.
marked $\frac{1}{4}$ S. B. T. W. C.

a pine 6 ins. diam. hrs. S.
 $58^{\circ} 28'$ E. 50 lks. dist. marked
 $\frac{1}{4}$ S. B. T. W. C.

Land, rolling and mountainous.

Subdivisions

chs. Soil, stony, 3rd rate.
 Timber, pine and oak.
 Heavily timbered land
 30.67 chs.

Sept. 27 - 1894.

General Description

This township is covered with excellent pine timber, but contains no other resources.

The impassable Lycamore canon, from 300 to 1200 ft. deep, with perpendicular rocky sides, runs through the township from N.W. to S.E. dividing the township into two parts.

The Northeastern por-

T. 20 N. R. 4 East (cont'd)

ch. tion was subdivided before, but it is impossible to connect any of the lines of the S. W. portion with those of the N. E. portion.

Charles E. Perkins
Compassman and
U.S. Deputy Surveyor

U. S. Surveyor-General's Office,

TUCSON, A. T. *July 13, 1895.*

The foregoing Field Notes of the Surveys of
Subdivisions of
Fractional
Sp. 20 N. R 4. E
 Gila and Salt River Meridian
 in *Arizona* executed by
F. W. Oury
 U. S. Deputy Surveyor, under his contract dated
June 21st 1893.
 having been critically examined, the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

Lee H. Manning

U. S. Surveyor-General
 for the Territory of Arizona.