

5.

BOOK 1435

No. 1435

1435

Exteriors

4-671

FIELD NOTES

GENERAL LAND OFFICE.

East boundary 20. N. R. 3. E.
South " 20. N. R. 3. E.
South " 20. N. R. 4. E.

No. 1435

East Boundary of Tp. 257

20 N.R. 3 E - continued.

chains 20 N.R. 4 E. Δ 18 B. Δ

A pine 14 ins. diam.

br. Δ $10^{\circ} 08'$ W. 178 lks.dist marked Δ 20 N.R.3 E. Δ 13 B. Δ

A pine 28 ins. diam.

br. N. $49^{\circ} 34'$ W. 145 lks.dist marked Δ 20 N.R. 3 E. Δ 12 B. Δ Land, rolling & broken
Soil rocky 2nd & 4th rate.

Timber pine.

Mountainous or heavily
timbered land 80

chains.

South on a true line

bet secs. 13 & 18

Var. $13^{\circ} 53'$ E.

East Boundary of T_p

- Chams. Over rolling land
through timber
Descend gradually 75
ft.
- 7.05 A pine 40 ins. diam.
on line which I mark
with 2 notches on N.
& S. sides
- 10.00 Foot of descent
- 14.54 A pine 28 ins. diam.
on line which I
mark with 2 notches
on N. & S. sides
- 29.00 Leave timber, enter
open park
- 40.00 Set a Malpais stone
14 + 12 + 12 ins. 9 ins. in
the ground for 1/4 sec. cor
marked 1/4 on W. face

20 N. R. 3 E - contd.

Chain and raised a mound
of stone $1\frac{1}{2}$ ft. high
4 ft. base alongside.

It is impracticable.

44.00 Leave park enter heavy
timber

50.00 Ascend 50 ft.

60.00 Top of ascent

62.00 Descend 20 ft.

69.00 Foot of descent

Ascend 25 ft.

79.00 Top of ascent.

80.00 Set a malpais stone

$14 \times 14 \times 14$ ins. 9 ins in
the ground for cor to
secs. 13, 18, 19 + 24

marked with 3 notches
on N. and S. edges
and raised a mound

East Boundary of Sp.

Chains of stone $1\frac{1}{2}$ ft. high 2 ft. base alongside, from which

An oak 6 ins. diam.
brs N. $72^{\circ} 23'$ E. 34 lks.
dist. marked T. 20 N.
R. 4 E. D. 18 B.S.

An oak 6 ins. diam.
brs S. $88^{\circ} 38'$ E. 31 lks.
dist. marked T. 20 N. R.
4 E. D. 19 B.S.

An oak 6 ins. diam.
brs S. 35° W. 25 lks. dist.
marked T. 20 N. R. 3 E.
D. 24 B.S.

An oak 6 ins. diam.
brs N. $61^{\circ} 23'$ W. 45 lks.
dist. marked T. 20 N.
R. 3 E. D. 13 B.S.

20 N. R. 3 E. Contd.

Chains, Land roading.
Soil stony 3rd rate.
Timber pine.
Heavily timbered land 6^v chs.

South on a true line
bet. Secs. 19 & 24.

Var. 13° 53' E.


Over rolling land, through
timber

6.00 Ascend 300 ft.

12.10 Top of ascent, ridge
course E. & W.

Descend 100 ft.

27.00 Foot of descent, ravine
5 ft. deep course E.
ascend.

28.87 A pine 19 ins. diam.
on line which 

East Boundary of Sp.

- Chains mark with 2 notches
on N. + S. sides
- 37.95 A pine 16 ins. diam.
on line which I mark
with 2 notches on N.
+ S. sides
- 33.61 An oak 16 ins. diam.
on line which I
mark with 2 notches
on N. + S. sides.
- 40.00 Set a malpai's stone
10 + 8 + 7 ins. 6 ins. in
the ground for 1/4 sec.
Cor. marked 1/4 on W.
face and raised a
mound of stone 1 1/2
ft. high, 2 ft. base
alongside, from which
A pine 29 ins. diam.

20 N. R. 3 E. = contd.

- Chain's br. Δ $20^{\circ} 50'$ E. 60 lks.
 dist. marked $\frac{1}{4}$ S. D.S.
- A pine 32 ins. diam.
 br. Δ $45^{\circ} 39'$ W. 64 lks
 dist. marked $\frac{1}{4}$ S. D.S.
- 51.88 A Juniper 19 ins.
 diam. on line which
 I mark with γ
 notches on N. & S. sides
 Descend 150 ft.
- 65.90 Foot of descent,
 wash 5 ft. deep
 course S. E.
 Ascend 60 ft.
- 69.55 Pine 17 ins. diam
 on line which I
 mark with γ notches
 on N. & S. sides.
- 75.94 A pine 18 ins. diam.

East Boundary of Twp.

Chains on line which I
mark with 2 notches
on N. & S. sides

8000. Top of ascent.

Set a malpais stone
14x14x11 ins. 9 ins. in
the ground for cor.
to Secs. 19, 24, 25 & 30
marked with 4 notches
on N. and 2 notches on
S. edges and raised a
mound of stone 1 1/2 ft.
high 2 ft. base, along
side, from which

An oak 7 ins. diam.
br. N. $69^{\circ} 08' E$. 81 lks.
dist. marked T. to N. R.
4 E. S. 19 B.

A pine 18 ins. diam.

20 N. R. 3 E. contd.

chain. br. S. $74^{\circ}26'$ E. 34 lks.
 dist. marked J. 20 N.
 R. 4 E. S. 30 B. \nearrow

A pine 19 ins. diam.
 br. S. $81^{\circ}43'$ W. 193
 lks dist. marked J.
 20 N. R. 3 E. S. 25 B. \nearrow

An oak 6 ins. diam.
 br. N. $43^{\circ}22'$ W. 95
 lks dist. marked J.
 20 N. R. 3 E. S. 24 B. \nearrow

Land rolling.

Soil stony 3rd rate.
 Timber pine, with
 some scrub oak.

Heavily timbered
 land 86 chs.

South on a true line

East Boundary of T. P.

Chains. bet secs. 25 + 30

Var. $13^{\circ} 53'$ E.

Over rolling land
through timber

27.00 Descend 25 ft. into
edge of canon.

29.00 A Juniper 20 ins.
diam. on line which
I mark with 2 notches
on N. & S. sides.

31.50 Foot of descent, and
ascent 30 ft.

36.00 Top of ascent.

37.00 A Juniper 26 ins.
diam on line, which
I mark with 2 notches
on N. & S. sides.

39.00 Descend 40 ft.

40.00 Set a malpais stone

20 N. R. 3 E. Contd.

Chains. 16x17x10 ins. 10 ins. in
the ground for $1\frac{1}{4}$ sec.
Cor. marked $1\frac{1}{4}$ on W.
face, and raised a
mound of stone $1\frac{1}{2}$
ft. high 2 ft. base
alongside, from which
An oak 6 ins. diam
brs N. $2^{\circ} 26'$ W. 56.
lks dist. marked
 $1\frac{1}{4}$ D. R. G.

An oak 10 ins.
diam. brs N. $84^{\circ} 37'$
W. 56 lks dist
marked $1\frac{1}{4}$ D. R. G.

46.00 Foot of descent.
80.00 Set a malpais stone
16x14x14 ins. 10 ins.
in the ground for

East Boundary of T.P.

Chains / cor. to sees. 25, 30, 31 &
 36 marked with 5
 notches on N. and 1
 notch on S. edges.
 and raised a mound
 of stone $1\frac{1}{2}$ ft. high
 2 ft. base alongside,
 from which

A pine 14 ins. diam.
 br. N. $44^{\circ} 08'$ E. 56
 lks. dist. marked T.
 20 N. R. 4 E. D. 20 B.T.

A pine 18 ins. diam.
 br. S. $43^{\circ} 37'$ E. 68 lks.
 dist. marked T. 20
 N. R. 4 E. D. 31 B.T.

A pine 17 ins. diam.
 br. S. $70^{\circ} 36'$ W. 17
 lks. dist. marked T.

20 N. R. 3 E - Contd.

Chains 20 N. R. 3 E. S. 26 R. 9

A pine 16 ins diam.
br. N. $6^{\circ} 48'$ W. 98 lks.

dist. marked J. 20 N.
R. 3 E. S. 25 R. 9

Land rolling & broken
Soil rocky 3rd & 4th rate.

Timber pine with
some scrub oak

Heavily timbered
land 80 chs.

South on a true

line bet Secs. 31 & 36

Var. $13^{\circ} 53'$ E.

Over rolling land

18.05 A pine 10 ins. diam.
on line which I mark
with 4 notches on N.

East Boundary of Sp

Chains. \forall S. sides.

25.35 A pine 10 ins. diam.
on line which I
mark with 2 notches
on N. \forall S. sides.

40.00 Set a malpais stone
14 \times 11 \times 9 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 2 ft.
base alongside, from
which

A pine 20 ins. diam.
br. N. $59^{\circ} 24'$ W. 35
lks. dist. marked
 $\frac{1}{4}$ P. B. S.

A pine 24 ins. diam.

20 N. R. 3 E - Contd.

chains. br. S. $45^{\circ}25'$ W. 66 lks.
dist. marked $1\frac{1}{4}$ P. B.S.

80.00 Set a malpais stone
 $18 \times 12 \times 11$ ins. 17 ins. in
the ground for cor to
T.P. 19470 N. R. 3
3 + 4 E. marked with
6 notches on each
edge and raised a
mound of stone $1\frac{1}{4}$
ft. high 2 ft. base
alongside from which
An oak 6 ins diam.
br. N. $49.09'$ E. 63
lks dist. marked T. 20
N. R. 4 E. S. 31 B.S.

An oak 17 ins.
diam. br. S. $47^{\circ}29'$
E. 69 lks dist. marked

272. East Boundary of Tp.
20 N. R. 3 East Contd.

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chains T 19 N. R. 4 E. S. 6 B. 5

An oak 14 ins. diam.

br. ϕ $66^{\circ} 53'$ W. 11 lks.

dist. marked T. 19 N.

R. 3 E. S. 1 B. 5

A pine 8 ins. diam.

br. N. $20^{\circ} 32'$ W. 86 lks.

dist. marked T. 20 N. R.

3 E. S. 36 B. 5

Land rolling

Soil rocky 4th rate

Timber pine

Heavily timbered land

80 chs.

At 8.30 a.m. Sept 21
the magnetic bearing
of the line bet. sec.
31 & 36 is ϕ $13^{\circ} 53'$ E.

South Boundary of Tps. 273.
20 North Range 3 East.

Chains From the cor. to Tps.

19 and 20 N. R's 3 + 4
E. I run west on a
random line between
said townships, the
variation of my
compass being $13^{\circ} 53' E$.

I set temporary half
mile and mile cor-
ners at each 40 & 80

chs. and find the
township line to be
6 miles and 23 lks.

long, and the falling
to be 45 lks. S. of the
cor. to Tps. 19 + 20
N. R's 2 + 3 E.

The correction for
the true line will

South Boundary of Tp. 20

Chains therefore be $7\frac{1}{2}$ lks.
 N. per mile and its
 course will be S. $89^{\circ}57' E$.
 From the cor. to Sp. 19
 + 20 N. R's 2 + 3 E.
 as herein before
 described

I run

S. $89^{\circ}57' E$. on a true
 line but sees. 6 and 31
 Var $13'53' E$.

Over rolling land.

4.00 Descent 45 ft.

9.45 Foot of descent.

Ravine 4 ft deep,
 course S. W.

Ascent 30 ft.

13.00 Top of ascent.

19.00 Descent gradually 21 ft.

North Range 3 E - contd.

Chains

25.00

Foot of descent,
ravine 4 ft. deep,
course SW.

Ascent 30 ft.

37.00

Top of ascent.

40.23

Set a malpais stone
20 x 14 x 12 ins. 15 ins.
in the ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on
N. face and raised a
mound of stone $1\frac{1}{2}$
ft. high x ft. base
alongside, from
which

An oak 10 ins diam.
br. S. $55^{\circ}39'$ E. 17
lks. dist. marked
 $\frac{1}{4}$ E. B.S.

South Boundary of Sp. 20

- chains. A pine 50 ins. diam.
 br N. 67° W. 9 lks.
 dist marked 1/4 P.
 B.S.
- 49.00 Descend gradually
 40 ft.
- 57.00 Foot of descent.
 Ascend gradually
 50 ft.
- 69.00 Top of ascent.
 Thence over rolling
 land to
- 80.23 Set a malpais stone
 16 x 9 x 8 ins. 11 ins. in
 the ground for cor to
 Secs. 5, 6, 31 + 32 marked
 with 5 notches on E.
 and 1 notch on W. edges
 and raised a mound

North Range 3 E - Contra.

chain. of stone $1\frac{1}{2}$ ft. high
2 ft. base alongside
from which,

A pine 16 ins. diam.
br. N. $38^{\circ} 26' E$. 45
lks. dist. marked J. 20
N. R. 3 E. S. 32 B. J.

A pine 14 ins. diam.
br. S. $57^{\circ} 04' E$. 74
lks. dist. marked
J. 19 N. R. 3 E. S. 5 B. J.

A pine 16 ins. diam.
br. S. $81^{\circ} 06' W$. 34 lks.
dist. marked J. 19 N.
R. 3 E. S. 6 B. J.

An oak 10 ins.
diam. br. N. $3^{\circ} 59' W$.
56 lks. dist. marked
J. 20 N. R. 3 E. S. 31 B. J.

South Boundary of Sp. 20

Chains Land broken, rolling
 soil rocky 4th rate.
 Timber pine, some
 scrub oak.
 Heavily timbered
 land 80.23 Chs.

A. $89^{\circ}57'E$. on a true
 line bet. Secs. 5 + 32
 Var. $13^{\circ}53'E$.

Over rolling land
 through timber.

25.00 A pine 30 ins. diam.
 on line which I
 mark with 2 notches
 on E. & W. sides.

38.00 Descend 100 ft.

40.00 Set a Malpais stone
 $20 \times 16 \times 12$ ins. 15 ins.

North Range 3 E - Contd.

chains in the ground for $1/4$ sec. cor marked $1/4$ on N. face and raised a mound of stone $1\frac{1}{2}$ ft high \approx ft. base alongside from which.

An oak 8 ins diam.
br S. $16^{\circ} 19'$ E. 33 lks.
dist. marked $1/4$ A. B. J.

A pine 16 ins diam.
br N. $52^{\circ} 30'$ E. 63 lks.
dist. marked $1/4$ A. B. J.

44.50 Foot of descent.

Wash 6 ft. deep
course A.

Ascent 75 ft.

51.00 Top of ascent and descent 60 ft.

57.00 Foot of descent

South Boundary of Sp. 20

chains Ascend 75 ft.

61.00 Leave pine timber
enter scattering

Juniper brush

63.50 Top of ascent.

65.00 Descent 50 ft.

69.75 Foot of descent, small
wash course &

Ascend 40 ft.

75.00 Top of ascent.

77.00 A Juniper 9 ins. diam.
on line which I
mark with 2 notches
on E & W sides

80.00 Set a Malpais stone
16 x 12 x 8 ins. 10 ins. in
the ground for cor to
secs. 4, 5, 32 + 33

marked with 4 notches

North Range 3 E-Contd.

chains on E. and 2 notches
 on W. edges and
 raised a mound of
 stone $1\frac{1}{2}$ ft. high 2 ft.
 base, alongside,
 from which

A Juniper 24 ins.
 diam. br. N. $40^{\circ}29'$
 E. 237 lks. dist.
 marked J. 20 N. R.
 3 E. S. 33 B.S.

A Juniper 12 ins. diam.
 br. S. $41^{\circ}09'$ E. 166 lks
 dist. marked J. 19 N.
 R. 3 E. S. 4 B.S.

A Juniper 14 ins.
 diam. br. S. $74^{\circ}27'$
 W. 260 lks. dist. marked
 J. 19 N. R. 3 E. S. 5 B.S.

South Boundary of Sp. 20

Chains. A Juniper 12 ins.
diam. Trs. N. $49^{\circ}28'W$.
135 lks. dist. marked
S. 20 N. R. 3 E. S. 32
B. 9.

Land broken and
rolling.

Soil rocky 4th rate.

Timber pine, some
oak + juniper ~~oaks~~
brush

Heavily timbered land.
61 chs.

South $89^{\circ}57'E$ on a
true line bet. Secs 4 + 33
Var. $13^{\circ}53'E$.

Over broken land.

0.50 Descend 40 ft.

North Range 3 E-Contd.

Chains.

4.06 Foot of descent.

Ascend 30 ft.

10.00 Enter heavy pine timber,
some oak brush10.73 A Juniper 30 ins.
diam. on line which
I mark with 2 notches
on E. & W. sides.

11.00 Top of ascent.

13.61 A Juniper 48 ins. diam.
on line which I mark
with 2 notches on E. & W.
sides.13.96 A pine 16 ins. diam.
on line which I
mark with 2 notches
on E. and W. sides.

29.00 Descent 50 ft.

South Boundary of Sp. 20

Chains.

38.00 Foot of descent.

Ascend 30 ft.

39.84 A pine 32 ins. diam.
on line which I
mark with 2 notches
on E. & W. sides40.00 Set a malpais stone
18x12x10 ins. 12 ins.
in the ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ m
N. face and raised
a mound of stone
1 $\frac{1}{2}$ ft. high 2 ft.
base alongside
from whichA pine 24 ins. diam.
br. N. $60^{\circ} 29' E$. 30 lks.
dist. marked $\frac{1}{4}$ A. B. D.

North Range 3 E. contd.

- Chains A pine 20 ins. diam.
br. P. 48° E. 45 lks. dist.
marked 1/4 P. B. I.
- 42.00 Top of ascent.
- 48.00 Descend gradually
60 ft.
- 57.06 A pine 30 ins. diam.
on line which I
mark with 2 notches
on E. & W. sides
- 58.00 Foot of descent.
Small wash course
D. E.
- 70.00 Descend gradually
20 ft. to
- 80.00 Foot of descent.
Set a malpais
stone $20 \times 14 \times 14$ ins.
18 ins. in the ground

286.

South Boundary of Tp 20

Chains for cor. to Secs. 3, 4, 33 & 34
 marked with 3 notches
 on E. & W. edges and
 raised a mound of
 stone $1\frac{1}{2}$ ft. high, 2 ft.
 base alongside from
 which.

A pine 20 ins. diam.
 br. N. $34^{\circ} 14'$ E. 72 lks.
 dist. marked T. 20 N. R.
 3 E. A. 34 B. T.

A pine 30 ins. diam.
 br. S. $3^{\circ} 4'$ E. 100 lks. dist.
 marked T. 19 N. R. 3 E.
 A. 3 B. T.

A pine 10 ins. diam.
 br. S. $30^{\circ} 46'$ W. 132 lks.
 dist. marked T. 19 N. R.
 3 E. A. 4 B. T.

North Range 3 E. - Leontia.

Chains. A pine 12 ins. diam
 br. N. $26^{\circ} 06' W.$ 103 lks
 dist. marked T. 20 N. R.
 3 E. S. 33. B. J.

Land broken and rolling
 Soil rocky & the rate

Timber pine

Heavily timbered land
 70 chs.

A. $89^{\circ} 54' E.$ on a true
 line but sec. 3 x 34

Var. $13^{\circ} 53' E.$

Over rolling land
 through timber.

14.00 Ascend 25 ft.

16.00 Top of ascent.

23.00 Descend 50 ft.

32.00 Foot of descent.

South Boundary of Sp. 20

Chains. Wash 6 ft. deep course
S. E.

Ascend 50 ft.

39.69 A pine 24 ins diam.
on line which I mark
with 2 notches on E. & W.
sides.

40.00 Set a malpais stone
22 x 14 x 10 ins. 15 ins. in
the ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N.
face and raised a
mound of stone $1\frac{1}{2}$
ft. high 2 ft. base
alongside from
which

A pine 8 ins. diam.
br N. $31^{\circ} 40'$ W. 60 lks.
dist. marked $\frac{1}{4}$ P. T. S.

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North Range 3 E. - contd.

- Chain. A pine 12 ins. diam.
brs. N. 15°, 18' E. 65 lks
dist marked 1/4 D. B. G.
- 42.00 Top of ascent &
descent 30 ft.
- 50.00 Foot of descent, small
wash course S.
Ascend 100 ft.
- 63.00 Top of ascent.
- 67.00 Descend 75 ft.
- 80.00 Foot of descent.
Set a malpais stone
13 x 10 x 8 ins. 8 ins. in
the ground for cor to
secs. 2, 3, 34 & 35
marked with 2 notches
on E. & 4 notches on
W. edge and raised
a mound of stone

South Boundary of Sp. 20

Chains. $1\frac{1}{2}$ ft. high 2 ft. base
 alongside from which
 An oak 12 ins. diam.
 br. N. $40^{\circ} 25'$ E. 42
 lks dist. marked T. 20
 N. R. 3 E. A. 35 B. T.

A pine 13 ins. diam.
 br. S. $80^{\circ} 44'$ E. 26 lks.
 dist. marked T. 19
 N. R. 3 E. A. 2 B. T.

A pine 16 ins. diam.
 br. S. $84^{\circ} 23'$ W. 34
 lks dist. marked T.
 19 N. R. 3 E. A. 3 B. T.

A pine 12 ins. diam.
 br. N. $46^{\circ} 24'$ W. 12 lks.
 dist. marked T. 20
 N. R. 3 E. A. 34 B. T.
 Lane broken and

North Range 3 E. Contra.

Chain rolling.

Soil rocky 3rd + 4th rate.

Timber pine

Heavily timbered land

80 chs.

S 89° 57' E on a true
line but sec. 2 + 35-

Var 13° 53' E

Over rolling land.

0.30 Wash 2 ft. deep
course A.

Ascend 60 ft.

3.00 Top of ridge course
A E.

Descend 100 ft.

12.60 Foot of descent
Wash course A.

Ascend 80 ft.

South Boundary of Sp. 20

Chain abruptly.

1800 Top of abrupt ascent.

A pine 15 ins. diam.
on line which I
mark with 2 notches
on E. & W. sides

Ascent 200 ft.

40.00 A sandstone in
place 2' 11" above
ground which I
mark with a cross
(X) at exact cor
point for $1/4$ sec. cor
with $1/4$ on N. face
and raised a
mound of stone $1\frac{1}{2}$
ft. high 2 ft. base
alongside, from which
A pine 30 ins. diam.

North Range 3 E - contd.

Chains bears N. $9^{\circ}38'E$ 39 lks.

dist marked $1/4$ D. B. J.
 a pine 20 in diam. 20 S. $16^{\circ}43'$ W. dist

42.00 Top of ascent ^{mid} $1/4$ D. B. J.

Thence over rolling
land

74.50 A juniper 12 ins. diam.
on line which I mark
with 2 notches on
E. & W. sides

8000 Set a malpas stone
 $16 \times 12 \times 12$ ins. 10 ins. in
the ground for cor to
see. 1, 2, 3, 5, and 36
marked with 1 notch
on E. and 5 notches on
W. edges and raised
a mound of stone
 $1\frac{1}{2}$ ft. high 2 ft. base
alongside, from which

South Boundary of Sp. 20

Chains. A pine 20 ins. diam.
br. N. $36^{\circ} 30' E$ 73 lks.
dist. marked T. 20

N. R. 3 E. S. 36 B. T.

A pine 14 ins. diam.
br. S. $12^{\circ} 74' E$ 85 lks.
dist. marked T. 19 N.
R. 3 E. S. 1 B. T.

A pine 16 ins. diam.
br. S. $5^{\circ} 02' W$ 59 lks.
dist. marked T. 19
N. R. 3 E. S. 2 B. T.

A pine 16 ins. diam.
br. N. $11^{\circ} 32' W$ 45 lks.
dist. marked T. 20
N. R. 3 E. S. 35 B. T.

Land mountainous
and rolling

Soil rocky & $\frac{1}{2}$ mato.

North Range 3 E-Contd.

Chain Timber pine
mountainous or
heavily timbered
land 80 chs.

$189^{\circ}57'$ E. on a true
line bet. sees. 1 + 36
Var. $13^{\circ}53'$ E.

Over rolling land
through timber

5.68 A pine 16 ins. diam
on line which I mark
with 2 notches on E. &
W. sides

20.76 A pine 30 ins. diam.
on line which I
mark with 2 notches
on E. & W. sides

40.00 Set a Malpais Stone

South Boundary of Tp. 20

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

A pine 10 ins. diam.
 brs. $\phi. 10^{\circ} 26' E. 43$
 lks. dist. marked $\frac{1}{4}$
 A. B. J.

A pine 18 ins. diam.
 brs. $N. 79^{\circ} 28' W. 55$ lks.
 dist. marked $\frac{1}{4}$ A. B. J.

4250 Descend 40 ft.

4850 Foot of descent
 Wash 5 ft. deep
 course A. E.

North Range 3 E - Contd.

Chains Ascend 50 ft.

5900 Top of ascent

8000 The cor to Tps. 19 & 20

N. R's 3 & 4 E.

Land rolling.

Soil rocky 3rd rate.

Timber pine

Heavily timbered

land 80 chs.

September 21 1894

South Boundary of Sp. 20

| Lines designated | True bearing | Dist | Latitudes | | Departures | |
|--------------------------|--------------|---------------|-----------|---------------|------------|--------|
| | | | N. | S. | E. | W. |
| W. bdy. | North | 480.26 | 480.26 | | | |
| 5th Standard parallel N. | East | 478.00 | | | 478.00 | |
| E. bdy. | South | 480.29 | | 480.29 | | |
| S. Bdy. | A89°57' W. | 480.23 | .42 | | .51 | 480.23 |
| Convergence | | Totals | 480.68 | 480.29 | 478.51 | 480.23 |
| | | | 48.29 | | | 478.51 |
| | | Error in lat. | .39 | Error in dist | | 1.72 |

North Range 3 E - Contd.

General Description

The townships on both sides at this line are rough and broken. The soil is rocky but produces good grass for stock.

There is a great deal of merchantable pine in these Tps.

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

Field Notes
of the Survey of the
South Exterior Bdy.
of
Tp. No. 20 North Range 4 E.
of the
G. & S. River Base & Meridian
in the
Territory of Arizona
as surveyed by
Francis W. Cury
U.S. Deputy Surveyor
Charles E. Perkins
Compassman & U.S. Deputy Surveyor
Under his contract No. 31
Dated June 21, 1893.

Survey commenced Sept. 23, 1894
Survey completed Sept. 23, 1894

South Boundary of Twp. 20

Survey commenced
Sept. 23 1894 with
a W. and L. E. Gurley
solar transit.

By a preliminary
examination of this
township I find
that it is absolutely
impossible to run
the S. boundary
from the E. to the W.
on account of
impassable canons
in the south eastern
part; therefore

At the cor. to Tps.
19 and 20 R's 3 & 4
E. I verify the
adjustments of my

North Range 4 East

Chains instrument and
find them correct, I
set off $0^{\circ} 17'$ on the
deck arc and at 11^h
52^m a. m. l. m. t. observe
the sun on the meridian;
the resulting lat is
 $35^{\circ} 02' N$. the true latitude
nearly.

At 2^h p. m. l. m. t. I
set off $35^{\circ} 02'$ on the
lat. arc $0^{\circ} 19'$ on the
deck arc and determine
a true meridian
with the solar; the
resulting mean
variation of the
needle is $14^{\circ} 59' E$.
Thence I run

South Boundary of Twp. 20

Chains. East bet. Secs. 6 and 31.

Var. $14^{\circ}59'E$.Overrolling heavily
timbered land.

7.73 A juniper 12 ins.
diam. on line I
mark with 2 notches
on E. and W. sides

12.11 A pine 16 ins. diam.
on line I mark
with 2 notches on E.
and W. sides.

35.09 A pine 18 ins. diam.
on line I mark
with 2 notches on
E. and W. sides.

40.00 Set a malpais stone
 $12+12+10$ ins. 8 ins.
in the ground for $\frac{1}{4}$

North Range 4 C - cont'd.

Chains Sec. cor. marked 114
on N. face and
raised a mound of
stone 2 ft. high 3 ft.
base alongside, from
which

An oak 12 ins.
diam. bears S. $76^{\circ} 26'$
W. 68 lks. dist. marked
114 A. B. J.

~~A pine 24 ins. diam.
bears S. $76^{\circ} 26'$ W. 68
lks. dist. marked 114
A. B. J.~~

A pine 24 ins. diam.
bears S. $31^{\circ} 33'$ E.
121 lks. dist. marked
114 A. B. J.

78.97 A pine 8 ins. diam.

South Boundary of Tp. 20

- Chains. Var. $14^{\circ}59'$ E.
- Over rolling broken heavily timbered land.
- 19.98 A pine 14 ins. diam. on line I mark with 2 notches on E. and W. sides.
- 22.98 Second 150 ft.
- 31.38 A Juniper 40 ins. diam. on line I mark with 2 notches on E. and W. sides.
- 40.00 A flat malpais rock in place I mark with a cross (+) at exact point for $\frac{1}{4}$ sec. cor. with $\frac{1}{4}$ on N. of cross and raised a mound of stone

North Range 4 E-Contd.

Chains 3 ft. high 3 ft. base
 alongside, from which
 A pine 14 ins. diam.
 bears S. $8^{\circ} 22'$ W. 30 lks
 dist. marked $\frac{1}{4}$ D. B. I.

A pine 12 ins. diam.
 bears S. $3^{\circ} 16'$ E. 38
 lks dist. marked $\frac{1}{4}$
 D. B. I.

445.00 Foot at descent, thence
 over broken rolling
 land.

80.00 Set a malpais stone
 $14 \times 11 \times 10$ ins. 10 ins.
 in the ground for cor
 to Secs. 4, 5, 32 and 33
 marked with 4 notches
 on E. and 2 notches
 on W. edges, from which

South Boundary of T.P. 20

Chains. A pine 27 ins. diam.
 bears S. $60^{\circ}39'$ E. 48 lks.

dist. marked T. 19

N. R. 4 E. S. 4 T. 19

A pine 14 ins. diam.
 bears S. $10^{\circ}31'$ W. 122
 lks. dist. marked T. 19

N. R. 4 E. S. 5 T. 19

A pine 22 ins.
 diam. bears N. 69°
 $00'$ W. 78 lks. dist.

marked T. 20 N. R. 4 E.
 S. 32 T. 19

A pine 24 ins. diam.
 bears N. $20^{\circ}56'$ W.

63 lks. dist. marked

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

32 T. 19

Land rolling and

North Range 4 E - cont'd

Chairs. broken

Soil stony 3rd rate.

Timber, pine, juniper
and scrub oak

Mainly timbered land
80 chairs.

East bet. sec. 4 and 33

Var. 14' 59' E.

Over broken rolling
heavily timbered land.

40.00 Set a Malpais stone
12 x 11 x 10 ins. 8 ins in
the ground for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ on N.
face and raised a
mound of stone $1\frac{1}{2}$
ft. high, 3 ft. base
alongside, from which

South Boundary of Sp 20

Chains. A pine 10 ins. diam.
 bears N. 30° 28' W. 117
 lks. dist. marked 1/4
 A. B. T.

A pine 6 ins. diam.
 bears S. 32° 32' W. 56
 lks. dist. marked 1/4
 A. B. T.

Descend 200 ft.

52.40 Foot of descent, ravine
 6 ft. deep course S. 16°
 E.

Ascend 300 ft.

72.40 Top ridge bears N. W.
 and S. E.

Descend 50 ft.

74.34 W. edge of impassable
 Dycamore Cañon a
 cañon about 100 ft.

North Range 4 E - Contd.

Chains deep with perpendicular rock wall sides

Set a volcanic stone

16 x 12 x 3 ins. 11 ins. in the ground for W. C. to cor to Secs. 3, 4, 33 and 34 marked W. C. with 3 notches on E

and W. edges, from which

A spruce 12 ins. diam. bears S. $14^{\circ} 06'$ E. 98 lks dist marked J. 19 N. R. 4 E. D. 3 B. J. W. C.

A pine 13 ins. diam. bears N. $12^{\circ} 54'$ W. 86 lks dist. marked J. 20 N. R. 4 E. D. 33 B. J. W. C.

A pine 12 ins. diam. bears N. $39^{\circ} 30'$ W. 55 lks dist. marked J. 20

South Boundary of Sp. 20

Chains N. R. 4 E. S. 33 T. 9. W. 6.

A spruce 14 ins
diam. bears S. 85°
17' W. 99 lks dist.
marked S. 19 N. R.
4 E. S. 4 T. 9. W. 6.

Land rolling and
mountainous.

Soil stony 3rd rate.
Timber pine and
spruce.

Mountainous or
heavily timbered
land 74.34 chains.

Sept. 23, 1894

North Range 4 E - contd.

| Line designated | True bearing | Dist. | Latitudes | | Departures | |
|-------------------------------|---------------|--------|-----------|---------------|------------|--------|
| | | | N. | S. | E. | W. |
| N. bdy. secs. 18, 19, 30 + 31 | North | 320.00 | 320.00 | | | |
| N. bdy. sec. 18 | East | 80.06 | | 80.00 | 80.06 | |
| E. bdy. sec. 18 | S. 0° 3' E. | 80.00 | | | .07 | |
| N. bdy. sec. 20 | N. 89° 56' E. | 79.95 | .09 | | 79.95 | |
| E. bdy. secs. 20, 29, + 32 | S. 0° 3' E. | 240.00 | | 240.00 | .21 | |
| S. bdy. secs. 31 + 32 | West. | 160.00 | | | | 160.00 |
| Convergence | | | | | .34 | |
| Totals | | | 320.09 | 320.00 | 160.63 | 160.00 |
| | | | 320.00 | | 160.00 | |
| Error in lat. | | | .09 | Error in dep. | .63 | |

South Boundary of Tp 20

General Description

This township is cut diagonally in two parts by an immense impassable canon running from N.W. to S.E. through the center.

The west of the township is comparatively level breaking off by perpendicular rocky walls into the canon.

The township is covered with a heavy growth of pine timber. There is a small spring about the

North Range H E = Contd.

Center.

Charles E Perkins

Compassman ^{and}

U.S. Deputy Surveyor