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4

1687

1687

BOOK 1687

4-671

FIELD NOTES
GENERAL LAND OFFICE.

Subdivision

EXTERIORS

Township 20 N 7 W

" " 20 N. 8 W.

1687

1687

Field Notes
of the survey of
Exteriors

BOOK 1687

Trs. 50 N. R. 7 and 8 West
of the
Gila ^{and} Salt River Base ^{and} Meridian
in the
Territory of Arizona
as surveyed by
Philip Critzen
U. S. Deputy Surveyor
Under his Contract No. 7.
Dated Feb. 10. 93.

Survey Commenced Aug. 28. 1893
Survey Ended Sept. 19th 1893.

BOOK 1687

Index.

5th Standard Parallel North.

						16-6						1	22
						127						12	24
						13	1800					13	25
						24	190					24	27
						25	300					25	28
31	32	33	34	35	36	31	32	33	34	35	36	30	
13	15	16	18	19	20	32	34	34	36	37	38		

Exterior Boundaries.

BOOK 1687

at the Closing Cor. to $\frac{1}{2}$ p. 30 N. Reef
and S. W. I observe Polaris at its eastern
elongation at 8.55 P.M. Aug 27, 1893,
and find its magnetic bearing to
be $N 13^{\circ} 17' W$

North end of needle $13^{\circ} 17'$

The azimuth to table in Manual 27°

The mean of the Variations $14^{\circ} 06'$

The angle of the azimuth to the $\frac{1}{2}$ p. 30
mark the true Meridian as de-
termined by Siwina on Feb. 23, 1893
N of the cor.

at 7.15 A.M. Aug 28th 1893. I
find the magnetic bearing of the
line established last night to
be $N 14^{\circ} 55' W$ and by the table on page
55 of the Manual, the mean de-
clination is $14^{\circ} 49' E$.

Exterior Boundaries

~~Channel~~ ^{Closing} ~~Thy~~ ^{to} ~~the~~ ² ~~point~~ ^{of} ~~the~~ ²⁰ ~~of~~ ^{H. R. 7} ~~the~~ ^{and} ~~W~~ ^W
 as herein before described
 Hence Line

South ~~base~~ ^{and} ~~6~~

Var. $14^{\circ} 52' E$

ascend mesa through timber

20.00 top of mesa

46.50 Set a volcanic stone $18 \times 12 \times 6$ ins in
 in the ground for 4 in 1 corner
 on W face ^{and} raised a mound of stone
 $1/2$ ft high 2 ft base along side. It's
 impracticable.

55.00 descend

56.50 Set a lime stone $36 \times 12 \times 4$ ins 2 in
 the ground for cor top $6-7$ ^{and} 12
 marked with notch on N ^{and} 6
 notches on S faces ^{and} raised a
 mound of stone $1/2$ ft high 2 ft
 base along side. It's impracticable.

Sp 20 R. L. & West

Plain Land mountainous 86.50 chs

Soil 2nd and 3rd rate

86.50 chs scattering Juniper ²/₃ cedar

~~Mountainous Land 86.50 chs~~

South bk secs 7th and 13

14° 05' 3" E

Descent through Timber

11.00 bottom ^{and} ascend ridge

9.00 top of ridge by N.E.

12.00 descent

6.10 bottom ^{and} enter Valley by Coy. leaving

0.00 Set a volcanic stone 12 x 10 x 6 inches in
the ground for 1/4 sec cor, marked 4 on

W face ^{and} raised a mound of stone

1/2 ft high 3 ft base along guide.

Pits impracticable.

4.00 leave Valley

0.00 Set a volcanic stone 15 x 15 x 5 inches in
the ground for cor to sec 7th 13th and 18th.

Exterior Boundaries

marked with 2 notches on N^{and}
4 notches on S face^{and} raised a
mound of stone 1/2 ft high 5 ft
base along side. Pits impracti-
cable.

Land Mountainous 26.10ches
Soil 3rd^{and} 4th rate^{an}

26.10ches scattering Juniper Timber
Mountainous Land 26.10ches

1. lat sec. 13^{and} 18

lat. 14° 53' E

10.00 ascend ridge through Timber

10.00 Set a Volcanic stone 15 1/2 x 6 inches
the ground for 4 sec on marked
1/4 on N face^{and} raised a mound
of stone 1/2 ft high 5 ft base a-
long side. Pits impracticable.

11.00 top of ridge on N. E. ^{and} descend

11.00 Bottom

Sp 20. N. E. S. West.

80.00 Set a volcanic stone 18x18x15 in in
in the ground for corners. 19^{and 34}
marked with 3 notches on N^{and S}
faces and raised a mound of stone
1/2 ft high 3 ft base along side
W. impracticable.

Land mountainous 67 chs

Soil & the rate

rocks scattering ^{and cedars} Juniper, Yew

Mountainous Land 67 chs

Set sec. 19^{and 34}

V. at 14° 53' O.

8.00 ascend ridge

18.00 top of ridge to W.

38.00 descend through timber

40.00 Set a volcanic stone 18x10x6 in in
in the ground for 4 corners marked
on W face and raised a mound of stone
1/2 ft high 3 ft base along side. 4 chs.

Exterior Boundaries

Chains impracticable.

48.00 Bottom

80.00 Set a volcanic stone 15 x 12 x 10 inches
in the ground for corners 25-30-35^{and} 30
marked with 4 notches on N^{and}
2 notches on S. faces and raised a
mound of stone 1 1/2 ft high 3 ft
base along side. It's imprac-
ticable.

✓ Land mountainous 40 chs

Sol 4 the rate

42 chs scattering Juniper Timber
Mountainous land 40 chs
Aug. 25, 1893

Subsec. 25^{and} 30

Ca. 14° 55' E

Thorough scattering Timber

40.00 Set a volcanic stone 15 x 16 x 4 inches
in the ground for 1/4 ac or marked
1/4 on W face and raised a mound

Sp 20 N. R. 8 West.

Chain of stone 1 1/2 ft high 2 ft base along-
side. Pitts impracticable.

80.00 Set a volcanic stone 31 x 1 1/2 x 6 in
in the ground for cor in secs. 25-30-31 ^{and 36}

marked with 5 notches on N and
1 notch on S. faces ^{and raised a}
mound of stone 1/2 ft high 2 ft
base alongside. Pitts impracticable.

Said Rollins

Soil 3rd ^{and 3rd} rate

socks scattering Juniper ^{and Cedar} timber.

S. 1/4 sec 31 ^{and 36}

Va. 14° 53' 6"

descending

5.00 Cotton's bro Westerly ✓

6.00 ascent ridge

40.00 Set a volcanic stone 24 x 24 x 4 in in
the ground for 1/4 sec. cor in aiked cor on 20

Exterior Boundaries

Chains face ^{and} raised a mound of stone $\frac{1}{2}$ ft high 3 ft base alongside Pits, ^{was} impracticable

41.00 top of ridge hrs. N.E.

47.00 descend

65.00 bottom ^{and} ascend ridge hrs. S.W.

73.00 top of ridge hrs. N.E. ^{and} descend

80.00 Saba Volcanic stone, 12x12x12 inches in the ground for cots, Tps. 19 ^{and} 20 ^{and} 21 ^{and} 22

W marked with 6 notches on N, S.E. and W. edges ^{and} raised a mound of stone $\frac{1}{2}$ ft high 3 ft base alongside. Pits impracticable

Land mountainous 74 chs

Soil 4th rate

scarce

Timber scattering (Juniper) ^{and} Cedar

Mountainous 74 chs
Aug 29, 1893.

Pl 20 N. R. 8 West.

Chains At 7.30 A.M. Aug 31st 1893 the mag-
netic bearing of the line bet specs 31^{and}
36 is $14^{\circ}50'W$

From the cor to Tps. 19^{and} 20 N. R. 7^{and} 8 W
I run W on a sand on line between
said Townships, the variation of my
compass being $14^{\circ}50'E$. I set temporary
half mile ^{and} mile corners at each
40^{and} 80 chs and find the Township line
to be 5 miles 78 chs ^{and} 48 cks long, ^{and}
the falling to be 75 lks N of cor to Tps
19^{and} 20 N. R. 8^{and} 9 W. The correction for the
true line will therefore be $1\frac{1}{2}$ lks S.
per mile ^{and} its course will be $S. 89^{\circ}55'E$.
From the cor to Tps 19^{and} 20 N. R. 8^{and} 9 W
as herein before described.

I run

$S. 89^{\circ}55'E$ on a line line bet specs 6^{and} 31
Va $14^{\circ}50'E$.

Exterior Boundaries

- Chains Through ^{timber} dense undergrowth
- 3.50 ascend gradually
- 8.40 top of ridge. ls. Ny ^{to} and descend
- 55.45 bottom ^{and} Say Wash 20 kts wide ls. Ny
- 38.48 Set a Granite stone 18 x 10 x 10 ins / 12 ins in
the ground for $\frac{1}{4}$ sec cor marked from W
face ^{and} raised a mound of stone $\frac{1}{2}$
ft high 2 ft base alongside. Pit
impracticable.
- 38.90 ascend ridge
- 55.40 top ls. Ny
- 67.50 leave Timber ^{and} descend
- 78.48 Set a Volcanic stone 18 x 12 x 10 ins / 12 ins in
the ground for cor to secs 5-6-31 ^{and} 32
marked with 5 notches on E ^{and} 1
notch on W faces ^{and} raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base, a-
longside. Pit impracticable.
From which

Pr 30 N. R. & West.

Chain Anvil Rock Ranch brass $S. 52^{\circ} 36' E$.

Land mountainous 71.43 chs.

Soil 3rd and 4th rate

67.50 chs. ~~Dense undergrowth~~
~~Mountainous land 2nd dense undergrowth~~
 73.48 chs

$S. 89^{\circ} 55' E$ on a true line to pccs 5th and 3rd

Va. 14050' E.

40.00 Set a granite stone $15 \times 12 \times 8$ ins 10 ins in
 the ground for 1/4 sec cor marked 1/4 on N
 face and raised a mound of stone 1/2 ft
 high 3 ft base alongside pits in
 practicable.

43.00 Enter Muddy Creek br S. S. E

47.50 leave Creek

65.00 Road to Hackberry from Prescott br NW

69.00 Enter Wash course 1/2 E

73.00 leave Wash.

80.00 Set a Volcanic stone $15 \times 14 \times 10$ ins 10 ins in
 the ground for cor to pccs 4-5-32nd and 33rd marked

Exterior Boundaries

Chains with 4 notches on E. ^{and} 2 notches on W faces ^{and} raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pits impracticable.

Land Rolling

Soil 3rd and 4th rate.

No Timber.

$89^{\circ}55'E$ on a true line between 4 ^{and} 33.

Va. $14^{\circ}50'E$

27.20 Wash basin 16.

38.20 Wash basin 17.6

40.00 Set a volcanic stone $18 \times 8 \times 8$ ins $1\frac{1}{2}$ ins in the ground for $1\frac{1}{4}$ sec. cor marked $1\frac{1}{4}$ on W face, dug pits $18 \times 18 \times 12$ ins E. ^{and} W of stone $5\frac{1}{2}$ ft dist ^{and} raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside.

42.00 Enter Wash course 6.

Sp 20 N. R. 8 West.

- 47.00 leave Wash
 58.00 ascend ridge
 67.00 top hrs NW and descend
 72.00 bottom and ascend
 80.00 Set a volcanic stone 34 x 12 x 12 in. in
 the ground for ever to sec. 3-4-33 and 34 mar-
 ked with 3 notches on E and W faces and
 raised a mound of stone 4 ft high
 2 ft base along side. Pits impracti-
 cable.

from which.

A Juniper 3 ft diam hrs N 37° 30' E 165 lks
 Dist marked Sp. 20 N. R. 8 W. S. 34 B. T.

A Cedar 30 ins diam hrs S 69° 30' E 65 lks
 S. Dist marked Sp. 20¹⁹ N. R. 8 W. S. 34 B. T.

No other trees within limits

Land Rolling ^{and} mountainous 22 chs

Soil sand and 3rd rate

Timber ~~scarcely~~ ^{scarcely} Juniper ^{cut down}

Mountainous land 22 chs

Exterior Boundaries

- Chains S. 89° 55' E on a true line to peak ³ and 34
 Va. 14° 50' E.
- ascending
- 3.00 top of ridge to Ny
- 5.00 descend into Cañon to Ny.
- 16.25 bottom to S. Southerly
- 16.75 ascend
- 18.00 top.
- 49.00 Set a Volcanic stone 18 x 18 x 8 in. in
 in the ground for 1/4 sec. corner
 1/4 on N face and raised a mound of dirt
 1/2 ft high 2 ft base alongside. Pits
 impracticable.
- 51.00 Reenter Cañon course NW.
- 52.70 leave Cañon
- 60.00 ascend ridge
- 62.00 top and descend to Ny
- 80.00 This point falling on a Volcanic
 Boulder 4 x 4 x 3 ft. I marked a cross
 (x) at exact cor point for cor to peak

BOOK 1887 19
Pp 20 N.R. & West.

Chain 2-3-34^{and} 35, marked with 2 notches on

E^{and} 4 notches on W face^{and} raised a mound of stone 1/4 ft high 2 ft base alongside. Ditto impracticable.

Land mountainous rocks

Soil 3rd and 4th rate

No Timber

Mountainous land rocks

$189^{\circ} 55' E$ on a true line bet. sec 2^{and} 35
Va. $14^{\circ} 50' E$.

↓ descending into Cañon course S. E

4.00 bottom^{and} Creek 30 lks wide course S. E

5.00 along cañon bottom

15.00 ascend

30.00 top^{and} ascend gradually

40.00 Set a volcanic stone 15 x 12 x 10 ins 10 ins

in the ground for 1/4 sec cor marked 1/4 on

W face^{and} raised a mound of stone 1/4 ft high 2 ft base alongside. Ditto

Exterior Boundaries

Chains impracticable.

80.00 Set a Volcanic stone 16x10x10 ins 12 ins

✓ in the ground for cor to sec. 1-2-35
 and 36 marked with 1 notch on E. and
 5 notches on W faces and raised a

mound of stone 16 ft high 2 ft
 base along side, Pits impractica-
 ble. from which

Anvil Rock Ranch brs S. 58° W.

Land Mountainous rocks

Soil 3rd and 4th rate

Timber scattering Juniper ³/₄ Medlar

S. 89° 55' E on a true line brs sec. 1 and 36

brs 14° 50' E

ascend ridge

34.00 top and descend into Canon brs S. 47°

39.00 bottom and ascend brs S. 67°

40.00 Set a Volcanic stone 15x12x10 ins 10 ins

Apr 20 N. L. & West.

Chains in the ground for $\frac{1}{4}$ sec. cor marked
 $\frac{1}{4}$ on N face and raised a mound of
 stone $\frac{1}{2}$ ft high 2 ft base along
 side pits impracticable

73.00 top

80.00 The cor to Tps. 19^{and 20} N. Rs. 7^{and 8} W
 Land Broken ^{and} mountainous rocks
 Soil 4th rate
 Timber scattering Juniper ^{and}
 Cedar; Mountainous land rocks

Exterior Boundaries

Champs ^{Closing} ~~begin at Cor to 7 p. 2071 Re. 6~~ ^{and 7 W}
 as hereinbefore described.

and run

S. lat. pccs. 1 and 6.

Pa. $14^{\circ}39' E$.

descend through Timber

5.54 bottom ^{and} Enter Valley br. E. leave Timber

~~29~~ 54 Wash 50 lks wide course E.

3100 leave Valley ^{and} ascend through Timber

40.00 top of ridge br. N.E. ^{and} descend

52.00 bottom ^{and} ascend ridge br. N.E.

62.54 Set a sand stone $15 \times 10 \times 8$ in 10 in in the
 ground for $\frac{1}{4}$ pie cor marked $\frac{1}{4}$ on W
 face from which

A Pinon 8 in diam br. $S. 45^{\circ} W 56$ lks
 dist marked $\frac{1}{4}$ S.B.T.

A Pinon 10 in diam br. $N 32^{\circ} E 89$ lks
 dist marked $\frac{1}{4}$ S.B.T.

80.00 top br. E. ^{and} descend

89.00 bottom ^{and} ascend ridge br. N.E.

BOOK 1687²³
Sp 20 N. L. 7 West.

92.00 top br. N.E. and descend

99.00 bottom and ascend ridge br. N.E.

102.54 Set a lime stone $15 \times 12 \times 10$ ins in the ground for cor to sec 1-6-7 and 1/2 marked with 1 notch on N and 5 notches on S face from which

A Pine 8 ins diam br. N 12° E. 10 lks
Dist marked Sp. 20 R. 6 W. 6 B. 1.

A Juniper 12 ins diam br. S. 55° 31' E 22 lks
Dist marked Sp. 20 N. R. 6 W. 5 B. 1.

A Pine 12 ins diam br. S. 85° W 48 lks
Dist marked Sp. 20 N. R. 7 W. 12 B. 1.

A Pine 6 ins diam br. N 67° W 30 lks
Dist marked Sp. 20 N. R. 7 W. 1 B. 1.

Land Mountainous

Soil 3rd and 4th rate

17.08 chs Juniper and Pine Timber

Mountainous heavily timbered
land 102.54 chs

Exterior. Bonn Series

Chains S. by sec. 7^{and} 12

Va. 14040' E.

ascend through Timber

5.00 top br. N.E.

24.00 descend.

40.00 Set a Limestone 18 x 10 x 6 ins 12 ins in

The ground for $\frac{1}{4}$ sec corner marked $\frac{1}{4}$ on W face, from which

A Pinon 10 ins diam br. S. 75° W

29 lks dist marked $\frac{1}{4}$ S. B. L.

A Pinon 8 ins diam br. N. 60° E. 10 lks

dist marked $\frac{1}{4}$ S. B. L.

40.50 bottom^{and} ascend ridge br. N.E.

45.00 top br. N.E.^{and} descend

55.00 bottom of ridge

65.00 Wash 75 lks wide br. N.E.

66.50 Trail br. E

67.00 ascend ridge

80.00 Set a Limestone 18 x 14 x 6 ins 13 ins in

Apr 30 N.E. 7 West.

Chain the ground for corners 7-10-13^{and 18}
marked with 2 notches on N^{and 4}
notches on S faces^{and} raised a mound
of stone 1/2 ft higher ft base along
side Pits impracticable.

Land mountainous 80cks

Soil worthless

Soils. Pinon^{and} Juniper Timber.

Mountains or heavily timbered
land 80cks

S. lat sees 13^{and 18}

Na. 14° 43' E.

ascend ridge through Timber

22.00 top^{and} descend brs N.E.

32.00 bottom^{and} ascend brs N. E

34.00 top of ridge brs E.^{and} descend

37.00 bottom^{and} ascend ridge brs N. E

40.00 Set a sandstone 18 x 10 x 8 ins 12 ins in

the ground for 1/4 sec cor marked 1/4 on
W face, from which.

Exterior Boundaries

- Chains A Juniper 14 ins diam br. S. 65° W
 23 lks dist marked 1/4 S. B. T.
 A Juniper 16 ins diam br. S. 70° E
 29 lks dist marked 1/4 S. B. T.
- 45.00 top of ridge br. E. and descend
 54.00 bottom and ascend ridge br. E.
 64.00 top of ridge br. E. and descend
 73.00 bottom and ascend ridge br. E.
 78.00 Top of ridge br. E. and descend
 80.00 Set a Limestone 18 x 16 x 14 ins in
 the ground forc'd to pccs. 13-18-19 and 24
 marked with 3 notches on N^{and}
 S faces from which
 A Juniper 24 ins diam br. N. 47° E. 41 lks
 dist marked 1/2 20 N. R. 6 W. S. 18 B. T.
 A Pinon 8 ins diam br. S. 40° E. 53 lks
 dist marked 1/2 30 N. R. 6 W. S. 19 B. T.
 A Pinon 14 ins diam br. S. 40° W. 30 lks
 dist marked 1/2 20 N. R. 7 W. S. 24 B. T.

Sp 20 N. E. 7 West.

Chains A Juniper 10 ins diam less $7/46^{\circ} W$ 37 lks
 Dist marked Sp 20 N. R. 7 W. 13 B. T.

✓ Land mountainous rocks

Soil worthless

rocks Juniper and Pinon Timber

Mountainous or heavily timbered
 land rocks

S. trees 19^{and 24}

Va. $14^{\circ} 40' E$

descend through Timber

3.00 bottom^{and} ascend ridge. hrs $N. E$

5.00 top hrs. E . and descend

25.00 bottom, trail hrs $N. E$ and ascend ridge.

39.25 top hrs. E .

40.00 Set a sandstone $12 \times 10 \times 8$ ins in the
 ground for $1/4$ sec cor marked $1/4$ on W face
 from which

A Cedar 14 ins diam hrs. $S 8^{\circ} E$ 10 lks Dist
 marked $1/4$ S. B. T.

A Pinon 8 ins diam hrs. $N 35^{\circ} E$ 55 lks Dist

Exterior Boundaries

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

43.00 descend

46.00 bottom hrs E.

47.00 ascend ridge

80.00 Set a volcanic stone 18x16x10 ins 12 ins
in the ground for cor to pccs 9-34-35^{and}
30 marked with 4 notches on N^{and}

notches on S faces^{and} raised a
mound of stone $\frac{1}{2}$ ft high 2 ft
base alongside. Pts impractica-
ble

Land mountainous socho

Soil Worthless

No Timber

Mountainous land socho

S hrs pccs 35^{and} 30

Na. 14041'E.

ascend ridge through Timber

2.00 top of ridge hrs. N.E. ^{and} descend

Apr. 20 N. L. 7 West.

10.00 bottom and ascend ridge hrs N. E

25.00 top hrs N. E.

30.00 descend

40.00 Set a Volcanic stone 15 x 12 x 10 ins 10 ins in the ground for 1/4 sec cor marked 4000 W face and raised a mound of stone 1/2 ft high 3 ft base alongside Pils impracticable.

43.50 bottom and ascend ridge hrs N. E

53.00 top hrs N. E.

80.00 Set a sandstone 18 x 12 x 5 ins 12 ins in the ground for cor to sec. 25-30-31 and 36 marked with 5 notches on N and 1 notch on S faces from which.

A Juniper 8 ins diam hrs N 11° E 97 lbs
Sist marked Sp. 20 N. R. 6 W. 1. 30 B. T.

A Juniper 40 ins diam hrs S. 87° 30' E 183 lbs
Sist marked Sp. 20 N. R. 6 W. 1. 31 B. T.

A Juniper 30 ins diam hrs S. 50° W 50 lbs

Exterior Boundaries

Chains Dist marked from R. 7 W. S. 36 B. 7.

A Juniper. 8 ins diam. br. N 30° W 95 lbs

Dist marked from R. 7 W. S. 25 B. 7.

Land mountainous rocks

Soil 3rd and 4th rate

80 chs Juniper Timber

Mountainous or heavily timbered land
rocks

S. 31^{and} 36.

Va. 14° 39' E.

Through Timber

7.00 descend

40.00 Set a Volcanic stone 24 x 18 x 16 ins 16 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. Ditto im-
practicable.

50.00 Bottom and ascend brs S. W.

60.00 top

80.00 Set a sandstone 24 x 20 x 16 ins 16 ins in the

Sp 20 N. R. 7 West.

Chains ground for cor to Sp. 19^{and} 20 N. Rs. 6^{and} 7 W
marked with 6 notches on N, S, E^{and}
Wedges, from which

A Juniper *divers* beam ls. N 36° 30' E 67 lks
Sist marked Sp. 20 N. R. 6 W S. 31 B. T.

A Juniper *divers* beam ls. S. 37° 30' E. 67 lks
Sist marked Sp. 19 N. R. 6 W S. 6 B. T.

A Juniper *divers* beam ls. S. 42° W
9 lks Sist marked Sp. 19 N. R. 7 W S. 1 B. T.

A Juniper *divers* beam ls. N 25° W 101 lks
Sist marked Sp. 20 N. R. 7 W S. 36 B. T.

Land mountainous 80 chs

Soil 3rd rate

80 chs Juniper Timber

Mountainous or heavily timbered
Land 80 chs

Sept. 16. Th. 1893

At 7 A M Sept. 17th 1893 the magne-
tic bearing of line between 31^{and} 36 is
140° 43' E. From the cor to Sp. 19^{and}
20 N. Rs. 6^{and} 7 W. Drive

Exterior Boundaries

chains W. on a random line bet. said townships, the variation of my compass being $14^{\circ} 43' E$.

I set temporary half mile and mile corners, at each 40 and 80 chs and find the township line to be 6 miles 78 chs and 58 lks long and the falling to be 90 lks S. of cor to Tps. 19^{and} 20^N Rs. 7^{and} 8^W. The correction of the true line will therefore be 15 lks N per mile and its course will be $N 89^{\circ} 54' E$. From the cor to Tps 19^{and} 20^N Rs. 7^{and} 8^W as herein before described run

$N 89^{\circ} 54' E$ on a true line bet. nos. 6^{and} 31
Va. $14^{\circ} 39' E$.

ascend along slope of ridge

5.00 top of ridge and descend to Nth

10.30 bottom^{and} ascend ridge bet S.

Sp. 30 N. L. 7 West.

23.00 top of ridge br. N^y and descend
 31.50 bottom ^{and} ascend ridge br. S.
 38.58 ^L Set a Volcanic stone 18x13x6 ins 13 ins
 in the ground for $\frac{1}{4}$ sec. cor marked
 $\frac{1}{4}$ on N face ^{and} raised a mound of
 stone $\frac{1}{2}$ ft high 2 ft base along
 side. Pits impracticable.

42.00 top of ridge br. N^y.

43.50 descend gradually

78.58 ^L Set a Volcanic stone 15x15x10 ins 10 ins
 in the ground for cor. sec. 5-6-31 ^{and} ^{1/2}
 marked with 5 notches on E. ^{and} notches
 on W faces ^{and} raised a mound of
 stone $\frac{1}{2}$ ft high 2 ft base along
 side. Pits impracticable.

Land mount around 78.58 chs

Soil 2nd and 3rd rate

Timber scattering ^{scarce} Juniper ⁱⁿ ^{the} ^{area}
 Mountainous land 78.58 chs

Exterior Boundaries

Chain N. 89° 54' E on a true line bet pieces ³² and ³³

Va. 14° 43' E.

8.55 ^{Bottom} trail to Ny

40.00 Set a Volcanic stone 18x10x6 ins 13 ins in the ground for piece commarked 4 on N face ^{and} raised a mound of stone 1 1/2 ft high 2 ft base alongside. Pits impracticable.

80.00 Set a Lime stone 18x13x6 ins 13 ins in the ground for cor to pieces 4-5-32, ^{and} 33 marked with 4 notches on E. ^{and} 2 notches on W face ^{and} raised a mound of stone 1 1/2 ft high 2 ft base alongside. Pits impracticable.

Land Level

Soil 1st rate

No Timber

N 89° 54' E on a true line bet pieces 4 ^{and} 33.

R. 20 N. E. West.

BOOK 1687

- Chains Va 14041'E.
Through ^{Timber} dense undergrowth
- 30.00 ascend ridge
- 40.00 Set a lime stone 36 x 15 x 5 ins 2 1/2 ins in
the ground for 1/4 sec cor marked 1/4 on
N face ^{and} raised a mound of stone
1 1/2 ft high 2 ft base alongside. Pitts
impracticable
- 45.00 top of ridge br N. ^{and} descend
- 60.00 bottom ^{and} ascend br S.
- 80.00 Set a lime stone 12 x 8 x 8 ins 8 ins in the
ground for cor to secs. 3-4-33 ^{and} 34 mark-
ed with 3 notches on E. ^{and} N faces ^{and}
raised a mound of stone 1 1/2 ft high
2 ft base alongside. Pitts imprac-
ticable

Land mountainous 50chs

Soil 4th rate

80chs ^{Juniper trees} dense undergrowth
mountainous land an dense underg
50chs

Exterior Boundaries

- Chains N 89° 54' E on a true line bet sees 3^{and 3+}
 Va. 14° 41' E.
- 3.00 descend through Brush
- 9.00 Bottom^{and} ascend ridge
- 16.00 top^{and} descend br. N.E.
- 32.50 bottom^{and} ascend ridge br. S.
- 40.00 Set a sandstone 15 x 12 x 6 ins 10 ins in
 the ground for $\frac{1}{4}$ sec. cor in a hole $\frac{1}{4}$ on
 N face^{and} raised a mound of stone
 $\frac{1}{2}$ ft high 2 ft base alongside. Pts
 impracticable.
- 45.50 top br. N.Y. ^{and} descend
- 50.00 bottom leave Brush^{and} ascend ^{brook} mesa_x
- 55.00 top of mesa.
- 80.00 Set a sandstone 12 x 10 x 10 ins 8 ins in the
 ground for cor to sees 2-3-34^{and 35}
 marked with 2 notches on E^{and} 4
 notches on W faces^{and} raised a mound
 of stone $\frac{1}{2}$ ft high 2 ft base alongside

BOOK 1687
Pp 20 N. L. 7 West.

Chains Pits impracticable.
Land mountainous 55 chs
Soil 3rd ^{and} 4th rate
47 chs Oak Bush.
Mountainous land 50 chs

N 89° 54' E on a true line bet sec 2 ^{and} 31 -
Va. 14° 45' E.

- 35.50 descend into gulch. to N.Y.
29.50 bottom ^{and} ascend
31.50 top of bank
40.00 Set a Volcanic stone 12 x 12 x 8 ins in
the ground for 1/4 sec. cor marked 1/4 on
N face ^{and} raised a mound of stone
1 1/2 ft high 2 ft base along side. Pits
impracticable.
41.00 ascend to Mesa.
50.00 Bluff 300 ft high 15 chs S.
62.00 top of Mesa ^{and} Enter juniper wood
80.00 Set a Volcanic stone 18 x 12 x 6 ins

Exterior Boundaries

Chain in the ground for cor to post 1-2-35^{and}

36. marked with 1 notch on E. ^{and}

5 notches on W faces from which

A Juniper 6 ins diam br. N 66° E 10 lks
 Dist marked Sp. 20 N R. 7 W S. 36 B T.

A Juniper 10 ins diam br. S. 30° E. 56 lks
 Dist marked Sp. 19 N R. 7 W S. 1 B T.

A Juniper 8 ins diam br. S. 74° W 5 lks
 Dist marked Sp. 19 N R. 7 W S. 2 B T.

A Pinon 6 ins diam br. N 23° W 9 lks
 Dist marked Sp. 20 N R. 7 W S. 35 B T.

Land Mountainous 62 lks

Soil 2nd rate

18 lks Juniper Timber

Mountains are heavily timbered
 and 62 lks

N 89° 54' E on a true line to post 1 ^{and} 36.

N a. 14° 41' E.

Through Timber

40.00 Set a Volcanic stone 24 x 30 x 6 ins / 6 ins

Pp 20 N. L. & West.

Chains in the ground for $\frac{1}{4}$ sec. cor marked $\frac{1}{4}$
 on N face, from which
 a Juniper 10 ins diam br. 561° E. 13 lks
 dist marked $\frac{1}{4}$ l. B.T.

A Pinon 10 ins diam brs 51° W. 9 lks
 dist marked $\frac{1}{4}$ l. B.T.

80.00 The cor to Sp 19 ^{and} 20 N. Rs. 6 ^{and} 7 W.

Land Level

Soil & rate

80 chs. Juniper Timber
 Heavily timbered land 80 chs
 Sept. 19, 1894.

Philip Contzen
 U. S. Dep. Sur.

For Final Oath see
 Book No. - 40

Copo

Extensions of S. 20. N. R. 8 W.

Latitudes, Departures, and closing errors.

Line designated	True bearing	Dist	N.	S.	E.	W.
North boundary	S. 89° 43' W	19.44		10		19.44
(5th standard)	S 89° 48' W	40.55		14		40.55
Co. North	S. 84° 22' W	40.00		3.95		40.00
"	N 89° 54' W	40.76	.07			40.76
"	West	40.18				40.18
"	N 89° 02' W	40.20	.42			40.20
"	N 89° 29' W	40.16	.36			40.16
"	S 89° 04' W	40.27		65		40.27
"	S 89° 00' W	41.20		12		41.20
"	S 88° 50' W	40.04		82		40.04
"	S 88° 48' W	40.20		84		40.20
"	S 89° 24' W	40.22		42		40.22
"	S 89° 19' W	14.76		18		14.76
W. boundary	South	480.00		480.00		
S. boundary	S 89° 55' E	478.48		75		
E. boundary	North	486.50				
Convergence		486.50	486.50		478.48	8.50

487.36	487.97	478.48	478.48
	487.35		478.48

Errors in latitude 0.62 error in dep. .00

Satoh

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Extensions of S. 80° W. R. 720
 Latitudes, departures and closing errors.

Line description	Dist	N.	S.	E.	W.
North boundary (5th standard) parallel north.	S. 89° 02' W		12.12		12.12
"	West		40.10		40.10
"	S 89° 05' W		42.25		42.25
"	S 86° 41' W		40.05		40.05
"	S 86° 41' W		40.05		40.05
"	S 84° 35' W		40.00		40.00
"	S 85° 42' W		40.00		40.00
"	S 89° 25' W		40.00		40.00
"	S 89° 5' W		40.00		40.00
"	West		40.00		40.00
"	S 85° 22' W		40.70		40.70
"	N 89° 01' W	.50	39.84		39.84
"	S 89° 43' W		22.87		22.87
W. boundary	South		486.50		486.50
S. boundary	N 89° 05' E	.90	478.58		478.58
E. boundary		50 R. 52			
Convergences					
Totals		503.98	502.98	478.58	478.48
Errors in latitude		50 R. 98		478.58	478.48

94
 departures

U. S. Surveyor-General's Office,

TUCSON, A. T., August 9, 1895-

The foregoing Field Notes of the Surveys of
Exterior Lines of the
20 North Ranges
7 and 8 West of
the — Gila and Salt River Meridian
in Arizona executed by
Philip Couzgen,
U. S. Deputy Surveyor, under his contract dated
February 10th 1893,
having been critically examined, the necessary correc-
tions and explanations made, the said Field Notes and
the surveys they describe are hereby approved.

L. W. Manning

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