CONTRACT 97

RETRACEMENT OF THE

5TH ST'D PARL'L NORTH THRO

RANGE 9 EAST, 8 EAST, AND

(Survey of) PART OF 5 EAST

4-671

FIELD NOTES

GENERAL LAND OFFICE.

No. 1236 BOOK 1236 1

See Book J. 6th Stand. Mer.
R. 2 E. for Salt

Field Notes

of the survey of the
Fifth Standard Parallel North
through
Ranges Nos. 5, 8, and 9 East
of the
Gila and Salt River Base and Meridian
in the
Territory of Arizona
As Surveyed By
Carl R. Candle and
Marvin Candle
Under their Contract No. 97
Dated June 30, 1902.

Survey commenced Sept 25, 1902
Survey completed Dec. 1, 1902.

T. 21 N. R. 9 E.

31	32	33	34	35	36
3	7	11	15	19	23

5th. Standard Parallel North.

T. 21 N. R. 8 E.

31	32	33	34	35	36
48	45	41	35	31	27

5th Standard Parallel North

T. 21 N. R. 5 E.

31	32	33	34	35	36
	51	54	57		

5th. Standard Parallel N

Index

5th Standard North.

Through.

Range 9 E — 3

" 8 E — 27

" 5 E 51.

Sept. 25, 1902

Retracement of the 5th standard parallel through R. 9 E. on S. boundary of sec 31

For complete description and test of instrument see book A of this series.

At 8 A.M. l.m.t. I set off 35° 7' Sou lat. arc; 37' on decl. arc and with the solarde termine a true meridian

Thence I run

East from the S.W. cor of the town ship, previously described on S. bdy sec. 31

Over mountainous land through heavy pine timber

4.00 Small drain, course N.W.

14.00 Small drain course N.E

Thence over nearly level land to
28.00 Rim of canyon bears N. and S.
Desc steep E. slope over lime
stone cliffs and ledges
33.00 Bottom of canyon course N.
Foot of 350 ft descent. Asc.
steep W. slope over lime
stone ledges and boulders
39.18 ¼ sec. cor. bears S ¼ E 5 lks dist.
Which makes the true bearing
of this line S. 89°20' E
I find a lime stone 18 X 10 X 8 ins set
in a mound of stone on a
ledge of rock; marked S C
¼ on N. face; from which
A pinon 10 ins in diam;
bears S. 53° W. 28 lks dist;
mkd. ¼ S B T.
As this was the bearing tree I made

another as follows

A pinon 10 ins in diam bears N. 59° 12' E 28 lks dist marked S C. ¼ S 31 B T.

A pinon 10 ins in diam bears N. 79° 30' W. 35 lks dist mkd S C ¼ S 31 B. T.

Thence East from cor

.50 Top of 350 ft. ascent bears N. & S.

Thence over rolling land

30.00 Small drain course N.E.

36.00 Leave timber; enter dense chaparral brush

39.91 S.C. ¼ sec. 31 & 32 bears S 61 lks dist which makes the true bearing of this line S 89° 7' E.

I find a sand stone 20 X 12 X 5 ins., loosely set and marked 5 grooves on E and 1 groove

6 Retracement 5th. St. Par. through R. 9 E.

on W. faces. I set same stone
15 ins in the ground and mark
S. C on N. face; from which
A ~~Cedar~~ 8 ins in diam.,
bears N. 25° 40' E. 277 lks. dist,
mkd. S C T 21 N R 9 E S 32 B T.
A pinon 6 ins in diam
bears N. 10° 45' W. 297 lks dist
mkd S C T 21 N R 9 E S 31 B T.
Old bearing trees could not be found
Land mountainous
Soil stony; 3rd and 4th rate.
Timber 79.09 chs pine and
dense cahuppaval brush.

East on S. bdy of sec. 32
Over rolling land through chaparral brush.

4.00 Enter timber, pine cedar and pinon; bears N. and S.

7.00 Desc. S. E. slope

14.00 Drain, course N. E. Foot of 40 ft descent.

20.00 Ridge, bears N. and S.

30.60 Drain, course N.

0 Difference between measurements of 39.93 chs by two sets of chainmen is 6 lks. Location of middle point
by first set 39.90 chs.
by second set 39.96 chs.
mean of which is

39.93 Standard ¼ sec. cor. bears S 60 lks dist. which makes the true

Retracement 5th. St. Par. through R. 9E.

bearing of this line S. 89° 8'E.
I find a sand stone 14x9x9 ins.
loosely set marked S C ¼ on
N. face. I set same stone firmly
and as no bearing trees could
be found mark two as follows:

A pinon 8 ins. in diam
bears N. 34° 50'E 27 lks. dist
mkd S C ¼ S 32 B T.

A cedar 10 ins in diam:
bears N. 64° W. 55 lks. dist.,
mkd. S C ¼ S 32 B T.

Thence east from corner.
23.82 C.C. to secs 4 and 5 bears 30 lks S
I find a lime stone 24x14x8 ins.
set in mound of stone;
marked C.C. on S and 4 grooves
on E., 2 grooves on W & N faces.
Difference between measurements

of 39.88 chs by two sets of
chain men is 2 lks: position of
middle point
by first set 39.87 chs
by second set 39.89 chs.
mean of which is
39.88 S.C. to secs. 32 and 33 bears S.
31 lks. dist., which makes the true
bearing of this line S. 89° 32' E.
I find a lime stone 18 X 10 X 6 ins
set in mound of stone, mkd.
S C on N. 4 grooves on E. and 2
grooves on W. faces; from which
a pinon 8 ins in diam.
bears N. 76° E. 88 lks. dist
mkd S C T 21 N R 8 E S 33 B T.
A pinon 9 ins in diam
bears N. 19° 30' W. 22½ lks dist
mkd. S.C. T 21 N R 8 E S 32 B T.

Retracement 5th. St. Par. through R. 9 E

I found one old bearing tree
marked as follows.

A cedar 12 ins in diam.,
bears S. 59° 30' W. 5 6 lks. dist
mkd S C B T.

Land rolling

Soil ~~stony~~ 3rd and 4th rate.

Timber ~~heavy~~ 99.81 heavy pine cedar
and spruce.

East on S. b dy of sec 33
Over rolling land through dense
cedar and pinon

11.00 Desc. E. slope

25.00 Road, bears N.E and S.W. Foot
of 40 pt. descent.

29.80 Ridge, bears N. and S.

34.30 Leave timber enter dense chico and
buck brush, bears N and S.

Difference between measurements of 40.15 chs by two sets of chain mm is 6 lks. position of middle point.

by first set 40.18 chs
by second set 40.12 chs

mean of which is

40.15 S Land and ¼ sec. cor. bears N.
8 lks. dist; which make the
true bearing of the line N. 89° 53' E.

12 Retracement 5th. St. Par. through R. 9 E.

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I find a small stone in mound of stone, not marked. I re-establish as follows at exact point

Set lime stone 18 x 12 x 8 ins 12 ins in the ground for Stand and ¼ sec. cor. marked S C ¼ on N. face, from which

a pinon 8 ins in diam., bears S. 40° E. 47 lks. dist., mkd. ¼ S B T.

No trees suitable in limits N.W.

I mark a pinon as follows

A pinon 10 ins in diam., bears N. 77° 45' E. 117 lks dist mkd. S C ¼ S 33 B T.

Thence east from cor.

.20 Enter dense cedar and pinon bears N E and S W.

2.00 Low ridge, bears N. E and S.W.

12.00 Ridge, 40 ft. high bears N. and S.

20.65 Flat drain. course N.E. Road bears NE and S.W.

23.59 C.C. to secs. 3 and 4.

I find a lime stone 10X8X8 ins above ground; mkd. C C on S., 3 grooves on E and W. faces.

Difference between measurements of 39.94 chs by two sets of chain were is 4 lks.

position of middle point
by first set 39.92 chs.
by second set 39.96 chs.
mean of which is

39.94 S.C. to secs 33 and 34. bears N. 43 lks. dist., which makes the true bearing of this line N. 89° 23 E.

I find a sand stone 10X10X9 ins above ground firmly set and

Retracement 5th. S. Par. through R. 9 E.

marked as described by
surveyor general; from which
A pinon 8 ins. in diam
bears N. 61° 30' W. 51 lks. dist.
mkd. T. 21. N R 9E S 33 B T.
A pinon 6 ins. in diam.,
bears N. 49° 20' E. 52 lks dist
mkd. T 21 N R 9E S 33 B T.
These are the old bearing trees.
Land rolling.
Soil stony; 3rd and 4th rate
Timber 74.20 chs dense cedar and
pinon.
At 11h 53' 54" A M l m L O set off 35° 07'
on lat. arc, 41' S on decl. arc and ob-
serve the sun on the meridian
The resulting latitude 35° 7' which
is the latitude nearly.

East on S. bdy of sec 34
Over rolling land through dense cedar and pinon.

36.20 Flat drain, course S. 20° E.

Difference between measurements of 40.17 chs. by two sets of chainmen is 4 lks
position of middle point
by first set 40.19 chs
by second set 40.15 chs
mean of which is

40.17 Stand ard ¼ sec. cor. bears W. S 25 lks dist., which makes the true bearing of this line S. 89° 39' E.

I find a lime stone 12 x 7 x 5 ins above ground, firmly set. mkd as described by surveyor general, from which

Retracement 5th. St. Por. through R. 9 E.

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A pinon 17 ins in diam.,
bears S. 71° 30' W. 21 lks. dist.,
mkd. S C ¼ S
only tree that could be found & as this was the mark as follows
A pinon 8 ins in diam.,
bears N 26° 25' E 122 lks dist
marked S C ¼ S 34 B T.
A pinon 8 ins in diam.,
bears N. 19° W. 85 lks. dist
marked S C ¼ S 34 B T.
Thence east from cor.
29.45 C C. to secs 2 and 3 bears N. 50 lks
dist.
I find a lime stone 15 x 5 x 4 ins.
above ground firmly set. mkd
as described by surveyor general.
Difference between measurements
of 40.13 chs by two sets of chain men
is 4 lks; position of middle point
by first set 40.11 chs

by second set 40.15 lks
mean of which is
40.13 S.C. to secs. 34 and 35 bears N.
53 lks. dist; which makes
the true bearing of this line N
89° 15' E.

I find a lime stone 12 x 9 x 4
ins. ~~set in ground~~ of stone
mkd with 2 grooves on E and
4 grooves on W. faces. In addition
to which I mark S C on N face;
from which

A cedar 6 ins in diam.
bears N. 54° 40' E. 109 lks dist
mkd S C T 21 N R 9 E S 35 B T.

A dead pinon 4 ins in diam
bears N. 40° W. 75 lks dist
mkd S C T 21 N R 9 E S 34 B T.

This is an old bearing tree.

Retracement 5th St. Par. through R. 9 E.

Land rolling
Soil stony 3rd and 4th rate
Timber dense cedar and pinon

East on S. bdy of sec 36
Over rolling land through dense cedar and pinon.

7.00 Enter mountainous land. Descend SE slope of ridge.

15.00 Canyon 70 ft deep, course NE ~~Ford~~ Ascend W slope.

18.50 Top of ridge, 70 ft high bears NE and SW.

21.00 Low ridge, bears N and S.

25.50 Drain, course N. Asc.

28.00 Ridge, 40 ft high. bears N and S.

Difference between measurements of 3985 chs by two sets of chainmen is 6 lks; position of middle point by first set 3982 chs by second set 3988 chs mean of which is

Retracement 5th St. Par. through R. 9 E.

39.85 Standard ¼ sec. cor. bears N. 14 lks dist; which makes the true bearing of this line N. 89° 48' E
I find a lime stone 28 x 4 x 4 ins set in mound of stone; mkd ¼ S on N. face. In addition I mark C on N. face; from which;
A pinon 12 ins. in diam., bears S. 42° E 37 lks. dist., mkd S C ¼ S B T.
As this was the only bearing tree I mark two others as follows.
A pinon 12 ins in diam bears N. 20° E 45 lks. dist., mkd S C ¼ S 35 B T.
A pinon 9 ins in diam., bears N 70° 30' W. 9 lks dist. mkd S C ¼ S 35 B T.
Thence East from cor.
Vacation 14° 15' E.

5.05 Drain course N.
11.00 Ridge. 4 ft high bears N. & S.
12.70 Drain. course N.
16.00 Ridge. bears N. and S.
30.55 Drain course N.
Difference between measurements of 39.73 chs by two sets of chain men is 4 lks; position of middle point
by first set 39.76 chs
by second set. 39.70 chs
mean of which is
39.73 S.C. to secs. 35 and 36 bears N. 47 lks dist. which makes the true bearing of this line N. 89° 19' E.
I find a lime stone 15 x 12 x 7 ins firmly set and marked as described by the surveyor general from which

Retracement 5th. St. Par. through R. 9 E.

A pinon 9 ins. in diam.,
bears N. 57° 30 E. 57 lks dist
mkd S C T 21 N R 9 E S 36 B T.
A pinon 9 ins in diam.,
bears N. 43° 45' W 25 lks. dist
mkd. S C. T 21 N R 9 E S 35 B T.
Ald bearing trees could not be
found.
Land rolling and mountainous
Soil stony; sod and ~~4 ch~~ rate.
Timber dense cedar and pinon.

East on S. bdy. of sec. 36
Over rolling land through
dense cedar and pinon

25.80 Drain. course N.

Difference bet. measure-
ments of 39.69 chs by two
sets of chain men is 8 lks
position of middle point
by first set 39.65 chs
by second set 39.75 chs
mean of which is

39.69 Stand ard ¼ sec. cor bears
S. 50 lks dist. which makes
the true bearing of this
line S. 89° 17' E.

I find a lime stone 14X12X6 ins
~~set~~ in mound of stone, mkd
¼ on N. face. I mark S C in
addition on N. face.

Retracement 5th. St. Par. through R. 8 E.

from which
a pinon 10 ins in diam.,
bears S. 14° 75 E 54 lks. dist.,
mkd S C & S B T.
As this was the only bearing tree
I mark two others as follows.
a pinon 6 ins in diam.,
bears N. 1° E 75 lks. dist.,
mkd. S C. & S 36 B T.
a pinon 10 ins in diam.,
bears N. 47° W. 157 lks. dist.,
marked S C & S 36 B T.
Thence east from cor
As difference in chaining by two
sets of chainmen
99.63 S C of T. 21 N. R 9 and 10 E.
bears 5 lks S. which makes
the true bearing of this line
S. 89° 56' E.

Retracement s. th. St. Par. through R. 9 E.

I find a post 4 ins square 1½ ft. above ground in small mound of stone mkd. T 21 N R 9 E S 31 on N.E., S C on S. T. 21 N R 9 E S 36 on N W faces with 6 notches on N.E and W. edges from which

A pinon 5" ins in diam bears N. 73° 20' E. 24 lks dist., marked T 21 N R 10 E S 31 B T.

A pinon 5" ins in diam bears N. 45° 45' W. 23 lks dist, mkd. T 21 N R 9 E S 36 B T.

Land rolling.

Soil stony; 3rd and 4th rate.

Timber 7 4 3 2 chs dense cedar and pinon

Sept. 25, 1902.

Retracement 5th. St. Par. through R. 9 E.

The retracement of the 5th Standard parallel through Township 21 N., R. 9 E. shows it has a general bearing of S. 89°52' E. and total length to be 478.19 chs.

Marvin Caudle
U. S. Deputy Surveyor.

Lat. off

Oct 16 1902 At 8 a.m.
l.m.t. I set off 35°07' on
lat. arc. 8°40' S on decl arc
and with the solar determine
a true meridian.
Thence I run
West along S. bdy of sec 36
from the S.E. cor of T 21 N
R 8 E previously described
Over mountainous land
through heavy pine timber
55.00 Canyon, 100 ft deep course N.E.
13.85 C.C. to Tps 20 & 21 N R 8 and 9 E
bears S. 3 lks. W. witnessed and
marked as described by
surveyor general.
26.60 Canyon 75 ft deep course N.E.
Difference between measure
ments of 39.83 chs by two

Retracement 5th. St. Par. through R. 8 E.

sets of chainmen as 4 lks
position of middle point
by first set 39.81 chs.
by second set 39.85 chs
mean of which is
39.83 Standard ¼ sec cor bears S 27
lks dist., Pine conse S. 89° 39' W.
I find a post rotted off. I re-
establish at exact point
Del lime stone 20 X 10 X 6 ins
15 ins in the ground for
standard ¼ sec cor; mkd
S C ¼ on 1 face. from which
a pine 12 ins in diam.,
bears S. 28° 45' W. 58 lks dist.,
mkd S C ¼ S B T.
a pine 38 ins in diam
bears N 10° 30' W. 2 lks dist
mkd S C ¼ S B. T.

These are the original bearing trees for this cor.

Thence West from cor.

18.00 Desc. S.W. slope.

25.00 Canyon 100 ft. deep course N.W.

29.00 Ridge 100 ft high bears NW and SE

Difference between measurements of 4002 chs by two sets of chainmen is 4 lks; position of middle point by first set 4000 chs. by second set 4004 chs mean of which is

40.02 S.C. to secs 35 and 36 bears S. 22 lks dist which is a post rotted off, I reestablish as follows from course S. 89° 41' W.

Set a sand stone 20x12x7 ins. 15 ins in the ground for S C to secs 35 and 36

30 Retracement 5th. St Por. through R. 8 E.

mkd S C on N. face 1 groove on W and 5 grooves on E faces from which;

A pine 36 ins. in diam., bears N. 19° 55' E. 147 lks dist., mkd. T XXI N R VIII E XXXVI B T.

A pine 38 ins in diam., bears N. 59° 14' W. 65 lks dist., mkd. T XXI N R VIII E XXXV B T.

Land mountainous

Soil stony; 3rd and 4th rate

Timber 79.85 chs heavy pine.

No. 1236

West on S bdy of sec 35-
Over mountainous land
through heavy pine timber.
3.90 Desc. N.W. slope.
7.45 Canyon 75 ft. deep course N.E.
9.45 S small drain course S.E.
26.00 Ridge, bears N.E. and S.W.
34.80 Drain course N.W.
Difference between measurements of 34 80 chs by two sets of chain men is 10 lks. position of middle point.
by first set 34.85 chs.
by second set 34.95 chs
mean of which is
34.90 Stand and ¼ sec cor. bears S. 21 lks. dist., which is a post rotted off. I reestablish as follows. True course S. 89° 42' W.

Retracement 5th. St. Par. through R. 8 E.

Set a sand stone 20X12X5 ins 15 ins in the ground for stand and ¼ sec. cor. marked SC¼ on N. face., from which

a pine 30 ins in diam bears N. 9° 30' E. 88 lks dist mkd. S C ¼ S B T.

a pine 30 ins. in diam., bears N. 26° 30' W. 71 lks. dist., mkd S C ¼ S B T.

These are the original bearing trees

Thence west from cor.

7 00 Ridge, bears N. and S.

22 50 Ridge, bears N.W. and S.E.

Difference between measurements of 40.04 chs by two sets of chain men is 4 lks

position of middle point by first set 40.02 chs.

by second set 40.06
mean of which is
40.04 S.C. to secs 34 and 35 bears S
28 lks. dist., which is a post
rotted off. I reestablish as
follows. From course S. 89°36' W.
Set a sand stone 20x12x5
ins 15 ins in the ground
for cor to secs 34 and 35 mkd
S C on N face; 2 grooves on W
and 4 grooves on E faces from which
A pine 30 ins in diam.,
bears N. 10° 41' E. 89 lks. dist.,
mkd. T XXI N R VIII E X XXV B T.
A pine 30 ins in diam.,
bears N. 75° W. 17 lks dist
mkd T XXI N R VIII E XXXIV B T.
These are the original bearing trees
Land mountainous

Retracement 5th. St. Par. through R. 8 E.

Soil stony; 4th rate.

Timber heavy pine 79.94 chs

I set off 35° 7' on lat. arc, 8° 44' on decl. arc and at 11h 45m a.m. I observe the sun on the meridian The resulting latitude is 35° 7' which is about correct.

West from the S.C. to secs 34 and 35 on random line

14.06 C.C. to secs 2 and 3 T. 20 N. R. 8 E. bears S. 3 lks dist marked and witnessed as described by surveyor general I offset to this cor and continue random line west setting temporary ¼ sec cor and sec. corners at intervals of 40.00 chs. counting from the SC to secs 34 and 35 and at 323.33 chs the cor to T. 21 N R 7 and 8 E bears N. 272 lks dist which is a ~~post~~ mound of stone completely rotted and destroyed. I reestablish cor at same point as follows

3 p

5th St Par N. through R. 8 E.

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Set lime stone 22 X 12 X 8 ins in the ground. mkd with S C on N. face and 6 grooves on N and W faces., from which

A pine 33 ins in diam., bears N. 17° 12' W. 120 lks dist mkd S C T XXI N R VII E S XXXVI.

I chop out marks on 4 E B T.

The falling answers to a correction of 29' which is 8' inexcess of the allowable limits. Therefore I make the random line the true line and from the S. C. of secs 34 and 35 I run

✓ S. 89° 53' W.

On a true line on S. bdy of sec. 34

Over mount arroyo land through

heavy pine timber

14.06 C. Cr. to secs. 2 and 3 T. 20 N R 8 E., witnessed and marked as described by surveyor general.

Thence I run west

West from this cor counting the distance from the cor to secs 34 and 35

15.00 D esc. S.W slope.

24.50 Bottom of canyon, course N.W.

Foot of 75 ft. descent. asc.

26.00 Top of 75 ft asc. bears N.W. and S.E.

29.50 D rain. Course N.W.

31.50 D rain course N.E.

36.00 Low ridge. bears N. and S.

Difference between measurements of 40.00 chs by two sets of chain men is 2 lks.

5th. St Pot. N. through R. 8 E.

position of middle point
by first set 39.99 chs
by second set 40.01 chs.
mean of which is

40.00 Set sand stone 20x12x10 ins
15 ins in the ground, for stand-
ard ¼ sec. cor. marked S C ¼
on N face; from which,
A pine 6 ins in diam.,
bears N. 7° 35' E. 40 lks. dist.,
mkd. S C ¼ S 34 B T.
A pine 24 ins in diam
bears N. 17° 8' W. 107 lks. dist.,
mkd. S C ¼ S 34 B T.

48.00 Drain course N.W.

54.00 Low ridge bears N. and S.

55.00 Drain course S.E.

69.00 Ridge. bears N.E. and S.W.

75.00 Desc. gradually

Difference between measurements of 80.00 chs by two sets of chain men is 4 lks.
position of middle point
by first set 79.98 chs.
by second set 80.02 chs.
mean of which is
80.00 Set sand stone 22x14x12 ins 15 ins in the ground; for S.C. to secs 33 and 34. mkd S C on N., 3 grooves on E. and W. faces. from which
A pine 6 ins. in diam., bears N 11°15' E. 46 lks. dist., mkd. S C. T 21 N R 8 E S 34 B T.
A pine 14 ins in diam., bears N. 15° 45' W. 71 lks dist., mkd S C T 21 N R 8 E S 33 B. T.
Land mountainous.

40

5th. St. Par. N. through R. 8E.

Soil stony; 3rd and 4th rate.
Timber 80.00 chs heavy pine.
Oct. 16, 1902.

Oct. 17, 1902. At 8 a.m., I met
Lat. N. I set off 35° 7' on lat. arc. 4° 03' S.
Dec N. on dec arc and with the solar
determine a true meridian
Thence I run
West on S. bdy. of sec. 33
Desc mountainous land
through heavy pine timber.
5.75 Bottom of canyon course N. foot
of 100 ft. descent. Asc. W slope.
21.00 Top of 100 ft. ascent bears N. and S.
23.00 Desc. W. slope
29.00 Bottom of canyon, course N.W.
Foot of 100 ft descent. ascend.
31.50 Top of 75 ft. ascent bears N.E. and S.W.
Desc steep N.W. slope of Walnut
Canyon.
Difference between measure-
ments of 40.00 chs by two sets

5th. St. Par. N. through R. 8 E.

of chain men is 10 lks.
position of middle point
by first set 40.05 chs
by second set 39.95 chs.
mean of which is

40.00 Set a sand stone 18x18x10 ins
12 ins in the ground for stand-
ard ¼ sec. cor. mkd. S C ¼ on
N. face: from which
A spruce 6 ins in diam
bears N. 50° 15' E. 78 lks dist.,
mkd. S C ¼ S 33 B. T.
As there are no other trees suit-
able in limits I raise a
mound of stone 2 ft base 1½
ft. high N. of cor.
Asc. from from cor.

49.60 S fur 125 ft. high. Bears N. and S.
Desc. steep N. slope over lime stone

cliffs and ledges

64.00 Bottom of Walnut Canyon course N.E. foot of 350 ft. descent. Ascend steep S.E. slope through lime stone ledges and boulders

78.00 Top W. Rim of canyon bro. S & N.E. 350 ft above bottom

Difference between measurements of 80.00 chs by two sets of chainmen is 6 lks.

position of middle point
by first set 79.97 chs.
by second set 80.03 chs.
mean of which is

80.00 Point for cor falls on steep slope facing N., on south side of side canyon.

Set sand stone 20 X 12 X 8 ins 15 ins in the ground for S.C to secs 32 and 33. mkd S C on N. 4 grooves on E and 2 grooves

5th. St. Par. through R. 8 E.

on W. faces., from which.
A pine 8. ins. in diam.,
bears N. 56° 50' E. 75 lks dist.,
mkd S C T 21 N R 8 E S 33 B T.
A pine 12 ins. in diam.,
bears N. 53° 55' W. 31 lks. dist.,
mkd S C T 21 N R 8 E S 32 B T.
Land mountainous
Soil stony; 4th rate.
Timber 8000 lbs heavy pine.

West on S. bdy of sec. 32.
Over mountainous land
through heavy pine timber.

3.00 Canon 60 ft. deep, course N.E. to E.

6.20 Low ridge bears N.E and S.W.
Thence over nearly level land
Difference between measurements
of 40.00 chs by two sets of chainmen
is 4 lks. position of middle point.
by first set. 39.98 chs
by second set 40.02 chs.
mean of which is

40.00 Set sand stone 30x14x12 ins 20
ins in the ground for standard
¼ sec cor. mkd S C ¼ on N face
from which
An oak 6 ins in diam.
bears N. 62° E. 89 lks. dist.
mkd S C ¼ S 32 B T.

5th. St. Par. N. through R. 8 E.

A pine 12 ins. in diam.,
bears N. 65° 15' W. 83 lks. dist.,
mkd SC 4 S 32 B T.

75.00 Gradually desc. W. slope

Difference between measurements of 80 00 chs by two sets of chainmen is nothing.

80.00 Set a lime stone 24 x 10 x 8 ins 12 ins in the ground for SC to secs 31 and 32., mkd. SC on N. 5 grooves on E and 1 groove on E faces., from which,

A pine 8 ins in diam
bears N. 51° 10' E. 64 lks. dist.,
mkd SC T 21 N R 8 E S 32 B T.

A pine 30 ins in diam
bears N. 17° 20' W. 69 lks. dist.,
mkd SC T 21 N R 8 E S 31 B T.

Land rolling and mountainous

Soil stony; 3rd and 4th rate.
Timber 80.00 chs. heavy pine
Oct 17 At this cor at 11h 46' A.M.
I. m't I set off 35° 7' on lat
arc. 9° 6' 30" on decl arc and
observe the sun on the meridian
The resulting latitude is
35° 7' which is about correct.

5th S1. Par. N. through R. 8 E.

West on S. bdy of sec. 31
Over mountainous land through
heavy pine timber.
4.00 Ravine 40 ft. deep. course S.
14.50 Ravine 70 ft. deep. course S.
17.25 Rim of Walnut Canyon bears N.W.
and S.E. Desc. steep S.W. slope
over numerous ledges and cliffs
34.00 Bottom of Walnut Canyon, course
S.E. foot of 400 ft. des. thence
over bottom of canyon over large
lime stone boulders.
40.00 Set sand stone 24 X 12 X 8 ins 16 ins
in the ground for stand and 1/4
sec. cor. mkd SC 1/4 on N. face
from which
A point + on a lime stone
ledge 50 ft high bears N. 138
lks dist
As there are no trees suitable

in limits I raise a mound of stone 2 ft. base 1½ ft high N. of cor. Pits impracticable

45.00 Asc. steep N.E. slope

56.00 S spur bears N and S. 150 ft high Desc. steep W. slope

64.00 Walnut Canyon course N.E. Ascend steep S.E. slope over lime stone ledges and boulders

82.00 Top of 400 ft ascent bears N E and S W. thence over nearly level land

83.33 The S.C. to T. 21 N. R. 7 and 8 E. bears N. 272 lks dist. I change the markings and witnesses to refer to T. 21 N R 7 E. only

Set a lime stone 30 x 14 x 6 ins 20 ins in the ground for C.C. to T. 21 N. R. 8 E. mkd C C on E. six grooves on N and E. faces.

50 5 St. Par. N. through R. 8 E.

from which
A pine 36 ins in diam.,
bears N. 44° 9'E 137 lks. dist
mkd. ¢¢ T 21 N R 8 E S 31 B T
Land mountainous
Soil stony 4th rate.
Timber 80.33 chs heavy pine.
Oct. 17. 1902

Marvin Gaudle
U.S. Deputy Surveyor.

5th. St Par. N. through R. 5 E. 5-1

Dec. 1. 1902. At 8h 30' A M. Inst. I set off 21°41'½ S on decl. arc 35°7'10" N. on lat. arc and determine a true meridian with the solar at the standard cor. of secs. 31 and 32 T. 21 N. R 5 E. which is a post greatly decayed mkd. and witnessed as described by surveyor general I therefore set a lime stone 16x10x6 ins. 10 ins. in the ground for standard cor. to secs. 31 and 32 mkd. S.C. on N. with 1 groove on W. and 6 grooves on E faces. Thence I run

East, along S. bdy. of sec. 32 over mountainous land through heavy pine timber. Ascend from cor.

5 2 5th. St. Par. N. through R. 5 E.

BOOK 1236

15.25 Ridge. 50 ft high bears N. 10° W
S. 10° E.

20.85 Bottom of gulch. course S. 18° W.
Ascend.

27.85 Ridge. bears N. and S.
Difference between measurements of 40.00 chs. by two sets of chains was 10 lks.
position of middle point
by first set 39.95 chs
by second set 40.05 chs.
mean of which is

40.00 Set a sand stone 16 x 12 x 7 ins.
11 ins. in the ground for
standard ¼ sec. cor., mkd S.C.
¼ on N. face; from which
A juniper, 15 ins. in diam., bears N. 56° E.
9 lks dist mkd. S.C. ¼ S 32 B T.
As other trees in limits suitable

for bearing trees I raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. Pits Impracticable

56.90 Descend bears N.W. and S.E.

58.85 Gulch, course S.E. ascend.

63.65 Ridge bears N. 15° W. S. 15° E.

67.05 Gulch. course S. 10° E.

Difference between measurements of 80.00 chs. by two sets of chainmen is 12 lks;
position of middle point
by first set 79.94 chs.
by second set 80.06 chs.
mean of which is

80.00 Set a lime stone 28 x 10 x 9 ins. 15 ins in the ground for S. C. to secs. 32 and 33 mkd S.C. on N. with 2 grooves W. and 4 grooves on E. faces; from which

5th. St. Par. N. through R. 5 E.

A pinon, 18 ins. in diam., bears N. 17°45' W. 6 lks. dist. mkd S.C. T 21 N R 5 E S 32 B T.

A pine, 32 ins. in diam., bears N. 57° E. 70 lks. dist., mkd S C T 21 N R 5 E S 33 B T.

Land, mountainous

Soil, stony; 4th. rate.

Timber, pine.

Mountainous and heavily timbered land 80.00 chs.

East. along S. bdy. of sec. 33 Over mountainous land through heavy pine timber.

10.00 Canyon, course S.

12.00 Edge of bluff, descend. bears N.W. and S.E.

24.25 Same canyon 300 ft deep, course S. 80° W. thence along canyon.

28.75 Leave canyon, course from S.E.

5th. St. Par. N. through R. 5 E.

to W. ascend

37.60 S pur. 200 ft. high bears N. and S.

Difference between measurements of 40.00 chs. by two sets of chainmen is 16 lks, position of middle point.

by first set is 40.08 chs

by second set is 39.96 chs.

mean of which is

40.00 Point for ¼ sec. cor. falls in bottom of canyon. course from SE to SW.

Set a lime stone 16 x 12 x 8 ins 11 ins. in the ground for standard ¼ sec. cor. mkd S C ¼ on N face; from which.

A pine, 26 ins. in diam., bears N. 79° E. 33 158 lks. dist mkd S C ¼ S B T.

An aspen, 6 ins. in diam. bears N. 63° E. 20 lks. dist. mkd S C ¼ S 33 B T.

56

6th. St. Por. N. through R 5 E.

Ascend from cor.

49.65 S pur. 100 ft. high, bears N. and S.

50.25 Canyon, course S.

64.25 Ridge, 200 ft. high bears N. and S.

Descend.

65.90 Canyon, 3 chs. wide course N.W.

69.00 Ascend, bears N.W. and S.E.

Difference between measurements of 80.00 chs. by two sets of chainmen is 18 lks.

position of middle point

by first set 80.09 chs.

by second set 79.91 chs.

mean of which is

80.00 Set a malapais stone 20x10x8 ins 15 ins. in the ground for S.C. of secs 33 & 34 mkd. S.C. on N., with 8 grooves on E. and W. faces, from which a pine, 30 ins. in diam, bears N. 27° E

6th. St. Par. through R. 5 E.

80 lks. dist. mkd. S.C. T 21 N R 5 E S 34 B T.
A pine. 34 ins. in diam., brans N. 65° W.
57 lks. dist. mkd. S.C. T 21 N R 5 E S 28 B T.
Land, mountainous
Soil, stony, 4th. rate.
Timber, heavy pine.
Mountainous and heavily timbered land 50.00 chs.
Dec. 1 at this cor. at 11h 48' 53" A.M. l.m.t. I set off 21° 44' S. on decl. arc and observe the sun on the meridian. the resulting latitude is 35° 7' N. which is correct.

East. on a random line along S. bdy. of sec. 34
Difference between measurements of 36.09 chs. by two sets of chainmen

is 12 lks. portion of middle point
by first set is 36.03 chs.
by second set is 36.15 chs.
mean of which is

36.09 The old stand and ¼ sec. cor. bears
N. 7.86 chs. dist., which is a
post 4 ins. square mkd. and
witnessed as described by sur-
veyor general.
Thence I run
S. 77° 43' W. on a true line along
S. bdy of sec. 34
Over mountainous land through
heavy pine timber and oak land.

31.00 Descend. bears N.E. and S.W.

36.94 The S.C. of secs 33 and 34
Land mountainous

Soil, stony; 4th. rate.
Timber, heavy pine and oak bush.
Mountainous and heavily timbered land 36.94 chs.

From the standard ¼ sec. cor I retrace
S. bdy of Sec. 34
East, retracing S bdy of sec 34.
Over mountainous land through heavy pine timber and oakbush.
30.67 C.C. to secs. 2, 3 T. 20 N. R. 5 E. brass N. 12 lks. dist. which is a post greatly decayed I reestablish as follows.
Set a malapais stone 16 x 9 x 9 ins. 10 ins. in the ground for C.C. to Secs. 2 and 3 mkd C.C. on S., with 2 grooves on E. and 4 grooves on W. faces; raise a

60 5 St. Par. N through R. 5 E.

mound of stone 2 ft base 1½ ft high
S. of cor. Pits impracticable.
from which
A pine 10 ins in diam. bears S. 70° W.
20 lks. dist mkd C C T 2 0 N R 5 E S 3 B T.
Difference between measurements
of 40.03 chs. by two sets of chainmen
is 8 lks position of middle point
by first set is 39.97 chs.
by second set is 40.07 chs.
mean of which is
40.03 The S.C. of secs. 34 and 35 bears. N. 15
lks. dist, which is a post 3 ins square
set in mound of stone witnessed
and mkd. as described by surveyor
general.
Land. mountainous.
Soil, stony; 4th rate
Timber. pine and oak brush 40.03 chs

Dec. 6, 1902.

A P P R O V A L.

Office of the

United States Surveyor-General,

Phoenix, Arizona.

April 25th 1904

The foregoing field notes of the ~~sur-~~ ~~vey of~~ retracement of the 5th Stand. Par. N- thro: R 9 & 8 & a part of 5 East of the Gila and Salt River Base and Meridian, in the Territory of Arizona, executed by Candle & Candle United States Deputy Surveyor, under his contract No. 97, dated June 30 1902, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank Arnold

U.S. Surveyor-General.