

1250

No 7

1

See Index

Field Notes

BOOK 1250

OF THE SURVEY OF THE

5th Stand: Par N. thro
Range 10. East. and

4th Stand ^{OF} Par N. thro
Ranges 5. 6. 7. and 8. E
Township Range

Gila and Salt River Base and Meridian

*See Recovery by Girard & Latimer
(in 1903) 4th Stand Par. N. through
RD 5, 6, 7 & 8 E*

ARIZONA.

By *R. C. Powers* D.S.

Under contract dated *Feb. 21, 1886.*

Survey commenced *June 11, 1886*

Survey completed *June 16, 1886*

No. 1250

*Approved by Com: G. L. O.
July 14, 1890.*

1250

Cont. 4/11/88.

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| Retracing | | |
| Standard North | Thro | |
| Range | 10 E | 3 |
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| | 6 East | 31 |
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BOOK 1250

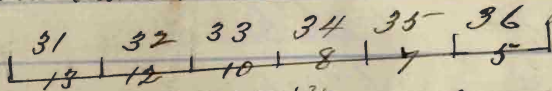
BOOK 1250

Names and duties of Assistants

Miles Archibald (Chairman) 1A
 George Jackson (")
 John Bohm (")
 Alfred Smith (") **BOOK 1250**
 Richard Brown (Axeman)
 Joseph Russell
 George Margrich (Plugman)

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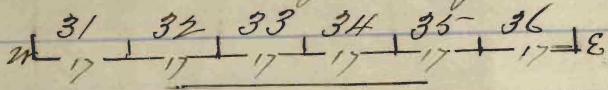
5th Stand Parallel N through R 10 E



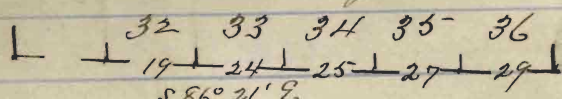
S 87° 55' W

General Description P 14

4th Stand through Range 8 E



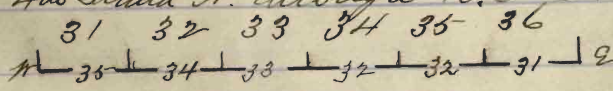
4th Stand N. through R 7 E



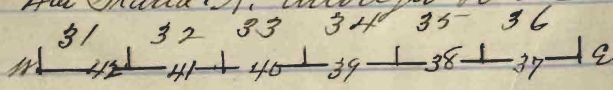
S 86° 21' E

General Description P 30

4th Stand N. through R 6 E



4th Stand N. through R 5 E



General Description P 43

16 Preliminary Oaths of Assistants.

We Miles Archibald
 and George Jackson
 do solemnly swear that we will well and faithfully execute the
 duties of Chain Carriers; that we will level the chain over even
 and uneven ground, and plumb the tally pins, either by sticking
 or dropping the same; that we will report the true distance to
 all notable objects, and the true length of all lines that we assist
 in measuring, to the best of our skill and ability and in accord-
 ance with instructions given us in the survey of the 5th Standard
Parallel through R. 10 E., 4th Standard Parallel through
R. 5, 6, 7 and 8 E. and the sub-division lines of
Tps. 17 N. R. 5, 6 and 7 E. Tps. 16 N. R. 6 & 7 E. Tps. 19
N. R. 6 & 7 E. and Tps. 20 N. R. 10 E. of
 the principal base & meridians Territory of Arizona.

Miles Archibald Chainman.

George Jackson Chainman.

Subscribed and sworn to before me, this 8th

day of June 1886

Eugene Pannenberg
 Notary Public.



Preliminary Oaths of Assistants.

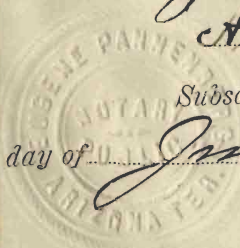
We John Bohm
 and Alfred Smith
 do solemnly swear that we will well and faithfully execute
 the duties of Chain Carriers; that we will level the chain over
 even and uneven ground, and plumb the tally pins, either by
 sticking or dropping the same; that we will report the true dis-
 tance to all notable objects, and the true length of all lines that
 we assist in measuring, to the best of our skill and ability and
 in accordance with instructions given us in the survey of the
5th Standard Parallel North
through Ranges 10 East - and the 4th
Standard Parallel North through
Ranges 5, 6, 7 and 8 East -
 of the principal base and meridian in the Territory of Arizona.

John Bohm Chainman.
Alfred Smith Chainman.

Subscribed and sworn ^{to} before me, this 8th

day of June 1886

Eugene Pannenberg
 Notary Public.



We Richard Brown Joseph Russell
and George Margrich

do solemnly swear that we will well and truly perform the
duties of Assessors and Surveyors

in the establishment of corners and other duties according to
instructions given us, and to the best of our skill and ability,

in the survey of the 5th Standard Parallel N through R. 10 E,
4th Standard Parallel N through R. 5, 6, 7 and 8 E
and the Sub-division lines of T. 17 N R. 5, 6 + 7
E. T. 18 N R. 6 + 7 E. T. 19 N R. 6 + 7 E
and T. 20 N R. 10 E of the principal
base & meridian in the Territory of Arizona.

Richard Brown
Joseph Russell
George Margrich

Subscribed and sworn to before me this 8th

day of June 1886

Eugene Pannenberg
Notary Public.



.....do solemnly swear that
will well and truly perform the duties of.....
according to instructions given..... and to the best of
skill and ability.

Sworn to and subscribed before me this
..... day of 188

.....do solemnly swear that
will well and truly perform the duties of.....
according to instructions given and to the best of
..... skill and ability.

Sworn to and subscribed before me this
..... day of 188



No. 1250

3
BOOK 1250

Re-establishing

Fifth Stand. Parallel N. through R 10 E

In accordance with letter of instructions from the Surveyor General dated Oct. 7th, 1885 based upon a letter from the Hon. Commissioner of the Gen. Land office of Sept. 8th, 1883 - date (copy enclosed to me). I proceeded to retrace and re-establish portions of the 4th and 5th Stand. Parallels partly as follows: -

On the night of June 10th 1886 I took an observation on the Star Polaris in accordance with instructions contained in the Manual of Surveys, and drove

Resubstablishing

The 5th Stand. Parallel N. through R. 10 E
 pickets on the line thus established.
 Survey commenced June 11, 1886
 with a Transit with solar
 attachment manufactured by
 W. and L. E. Gurley of Troy, N.Y.
 Before commencing this survey
 I set my instrument on the
 line established last night and
 find it correct.

I begin at the Standard
 Cor to the 21. N R 9 and 10 E, which

is a post 4 x 4 ins sgr. in mound of stone
 marked S.C. 721 W on N face
 R 10 S. 31 on E and
 R 9 S. 36 on W faces with
 6 notches on N E & W edges from which
 16 ins diam bis N 70° 25' E S. properly marked

| | | | | | |
|-------------|---|---------------|---|---|---|
| " Cedar 8 " | " | " S 28° 24 " | " | " | " |
| " Pine 10 " | " | " N 52 7/24 " | " | " | " |

Thence I run

Re-establishing

The 5th Standard Parallel N. through R. 10 E
East on a random line

7th 14° 15' E

Six miles where I set temporary
Cor and search for the Standard
Cor to Tps. 21 N. R. 10 and 11 E

Finding the same to be N. 18.08
chs and E 13.10 chs. I destroy

the temporary Cor. and

Fix the Standard Cor to Tps
21 N. R. 10 and 11 E which is

a sandstone 15-10 ins marked

✓ S. to. on N. face with six (6)

notches on the N. E and Wedges

and mound of stone
along side

87° 54'

I run

S 87° 54' W on a true line on

Re-establishing

The 5th Stand. Parallel N. through R. 10 E.

cls the South boundary of Sec 36

7th 114° 15' E

Over broken surface

- 40.00 Set limestone 10+10+6 ins 7 ins in the ground for Stand. & Sec Cor marked S.C. 1/4 on N. face and raised a mound of stone alongside to bearing trees within limits
- 57.00 Commence to descend into Cañon.
- 62.00 Bottom of Cañon about 170 feet deep course N. 25° E and ascend
- 65.50 Left bank of Cañon
- 80.00 Set limestone 16+10+4 ins 12 ins in the ground for Stand Cor to Secs 35 and 36 marked S.C. with 1 notch on the E. and 5

Re-establishing

The 5th Stand Parallel N. through R 10 E
 Chs notches on the W. edges and raised
 a mound of stone alongside
 no bearing trees of proper size
 within limits.

Land rough broken
 Soil rocky - 4 or 6 ft
 Timber scrub cedar & Pine

June 11th 1886

87° 54'

S 87° 54' W on S boundary of Sec 35
 1/4 Sec 14 & 15 E

Over broken and rolling surface
 40.00 Set limestone 12 x 8 x 6 ins 8 ins
 in the ground for stand 1/4 Sec
 Cor marked S. C. 1/4 on N face
 and raised a mound of stone
 alongside. no bearing trees

Reestablishing

the 5th Stand Parallel & through R. 10 E
 Chs within limits

80.00 Set limestone 15-x-10-x-8 ins 11 ins
 in the ground for Stand Cor
 to Secs 34 and 35 marked S.C.
 with 2 notches on the E. and 14
 notches on the W edges.

No bearing trees within limits
 Land broken & rolling
 Soil rocky - 4 ft. soil
 Timber scrub cedar brush

87° 54'

S 87° 54' W on the S boundary of Sec 34
 70 14° 15' E

Over broken rolling surface
 40.00 Set a post 4 1/2 feet long 3 ins
 square with marked stone 12
 ins in diameter

Reestablishing

Close Stand Parallel A. Through R10 E

was in the ground for Stand 1 + Sec
 Cr marked S.C. $\frac{1}{4}$ S on N face
 and dug pits 18 x 18 x 12 ins E + W
 of post - 5 $\frac{1}{2}$ feet - dist and raised
 a mound of earth 1 $\frac{1}{2}$ feet - high 3 $\frac{1}{2}$
 ft - base around post. Ground under
 a Piñon 8 ins diam trs N 85° W 115 - lbs
 dist - marked S.C. $\frac{1}{4}$ S B. T.
 No other bearing tree within limits.
 Ascend slope.

76.00 Top of N slope of hill about 100 feet high
 Gradual descent

80.00 Set Limestone 16 x 10 x 10 ins 12 ins in
 the ground for Stand Cr to Secs
 33 and 34 marked S.C. with
 3 notches on the E and W edges
 and raised a mound of stone

Reestablishing

The 5th Stand Parallel \times through R. 10 E

alongside from which
 a Pinon 4 ins diam has $N 85^{\circ} E$ 110 lbs
 dis-marked J. 21. \times R. 10 E S 34 B. T.
 no other bearing trees within limits
 Land rough rolling
 Soil rocky 3d cal.
 Timber sparse scrub cedar and
 Pinon brush

$87^{\circ} 54'$
 $S 87^{\circ} 54' W$ on S boundary of Sec 33
 $74 14^{\circ} 15' E$

Over rough rolling surface

25.00 Cross Ravine 90 lbs with Course $N 7^{\circ}$

40.00 Set limestone $12 \times 10 + 9$ ins 8 ins
 in the ground for Stand $1/4$ section
 marked S.C. $1/4$ on N face from which

Reestablishing

The 5th Stand. Parallel & through R10 E

A Cedar 8 ins diameter S.W. 40 lbs dia
marked S.C. $\frac{1}{4}$ S B. T.

A Piñon 10 ins diameter S. 40° E 115 lbs
dia marked S.P. $\frac{1}{4}$ S B. T.

80.00 Set limestone 12x12x10 ins 8 ins
in the ground for stand. Cor to
Secs 32 and 33, marked S.C. on N. face
with 4 notches on the E. and 2 notches
on the W. edges and raised a
mound of stone alongside found which
A Piñon 14 ins diameter S. 10° E 20 lbs dia
marked T21 & R10 E S 33 B. T.

A Piñon 12 ins diameter S. 76° W 75 lbs
dia marked T21 & R10 E S 32 B. T.
No other bearing trees within limits.
Land rolling

Soil rocky - 3d. cal.

Timber sparse scrub Cedar & Piñon

Reestablishing

The 5th Stand Parallel through R10 E

$S 87^{\circ} 54'$ N ^{$87^{\circ} 54'$} as S boundary of Sec 32
 To $14^{\circ} 15'$ E

Over broken rolling surface

4000 Set limestone $12 \times 10 \times 8$ ins 8 ins in
 the ground for Stand $\frac{1}{4}$ Sec Cor
 marked S.C. $\frac{1}{4}$ on N face and
 raised a mound of stone along side
 from which: - A Pinon 5 ins diam
 brs $S 15^{\circ} E$ 12 lbs dist marked S.C. $\frac{1}{4}$ S.B.T.
 no other bearing tree within limits.

8000 ^{Set} Limestone $10 \times 8 \times 7$ ins 7 ins in the
 ground for Stand Cor to Secs 31-32
 marked S.C. on N ^{face} with 5 notches on
 the E. and 1 notch on the W edges
 and raised a mound of stone
 along side. From which
 A Cedar 5 ins diam brs N.E. 40 lbs dist

Reestablishing

The 5th Standard Parallel N. through R10 E

marked T21 N R10 E S32 B.T.

A Pinon Ems diam tree N.W. 150 lbs dist.
marked T21 N R10 E S31 B.T.

Level rolling.

Soil rocky - 3d rate

Timber Scrub Cedar & Pinon

$87^{\circ} 54'$
S $87^{\circ} 54'$ W on S. boundary of Sec 31
wa $14^{\circ} 15'$ E

Over rolling surface

4000 lbs Limestone $12 \times 10 \times 8$ ins 8 ins in
the ground for stand $1/4$ Sec Cor marked
S.E. $1/4$ on N. face from which
A Cedar Ems diam tree N.W. 12 lbs dist.
marked S.E. $1/4$ S B.T.

A Pinon Ems diam tree N.E. 110 lbs dist.
marked S.E. $1/4$ S B.T.
6350 Cross beam 120 lbs with course N.E.

Reestablishing the

line 5th Stand Parallel N through R 10 E

93.56 Stand. Cor. to Tps 21 N. Rs 9 & 10 E

Land broken and rolling

Soil rocky - 3d rate

Trees dense scrub Cedar & Pinon.

I tore down the old cars,
and as far as possible obliterated
all marks of the former
standard line established
bet Tps 21 N Rs 9 & 10 E and
Tps 21 N Rs 10 & 11 E according
to the letter of my instructions.

General description

This line runs along the N. slope
near the foot of the Mogollon
range of Mountains. The
townships on the N side are

5th Main Parallel through P. 10 E.
 rough and mountainous
 covered with a dense growth
 of scrub Cedars, Piñon and
 scattering pines. On the
 South the surface descends
 gradually towards the little
 Colorado river, and is covered
 with good grass.

Ridley LePois
 U.S. Deputy Surveyor

June 17, 1886

I examined my instrument
 and found it to be in perfect
 adjustment.

Retracement

The 14th Stand. Parallel N. through R & E

Having described all the Section Corners on this line at the time I sub-located Township 17 North Range 8 E in the month of May of last year (1885) and having forwarded the field notes of the same to the Surveyor General, I now make a careful re-measurement of the line in accordance with instructions without repeating descriptions of corners or ~~giving~~ any part of the topography.

Retracing

The 4 Stand Parallel \perp through R. S. E.

Beginning at the Stand Cor to Tps. 17 N
R. 8 E which is a post 4 + 4 ins sgr
set in a mound of stone marked S. 36 N. 7
 \perp on N face. R. 9 E S. 31 on E. face
R. 8 E S. 36 on W. face with 6 notches on
E. N + W edges

A run

W. on a true line on S. boundary of Tps. 17 N.
2a $14^{\circ} 03' E$

Six miles to the Stand Cor to Tps. 17 N R. 7 + 8 E
which is a post 4 ins sgr, ^{set} in stone mound
properly marked; from which
An oak 12 ins diam brs N 27 W 80 lbs dist marked
T. 17 N R. 7 E S. 36 B. T.
A Pine 12 ins diam brs N 57 W 32.7 lbs
dist marked T. 17 N R. 8 E S. 31 B. T.
finding $\frac{1}{4}$ Sec and Sec Cors at

Reestablishing the # Stand
chs Parallel \perp through R. 7 E.

every 40. and 80. chs all
properly marked and monumented.

From the Stand, Cor. to P's 17. \perp R's 7
7 E. previously described by
me (having found the
alignment as described
in the field notes furnished me
from the Surveyor General's ^{Office} to be
in fault -

H. Langley 1853 - 1250 W

I run

$N 85^{\circ} 45' W$ on a random line

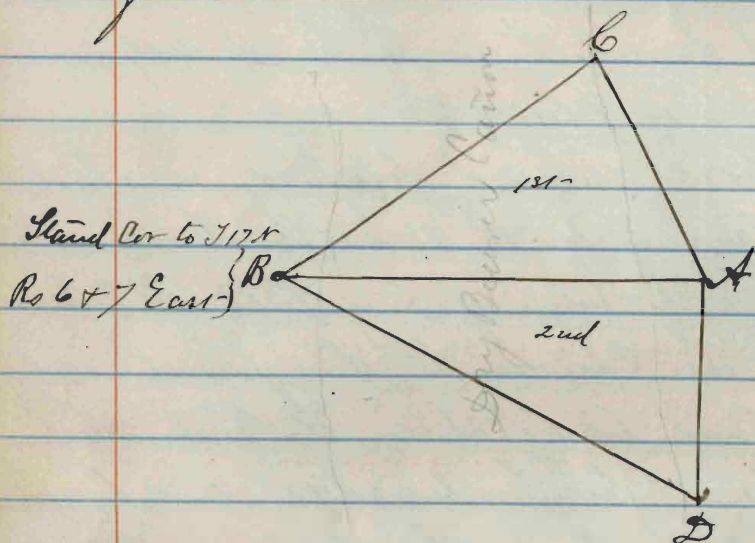
$70 14^{\circ} 10' E$

4 miles and 50.50 chs setting temporary
Cors at every 40 and 80 chs after
making search of the Stand. Cor

4th Stand Parallel N through R. 7 E.
to Sp 17. N. Rs 6 and 7 E to be
South 4 Chs and West 2 Chs + 2 Chs.

I found the Cor to be a Malpais
rock in place $20 \times 14 \times 12$ ins
above ground properly marked, &
standing on the West bank and
near the edge of Dry Beaver Cañon
As the Cañon at this point is
about 600 feet in depth with
almost perpendicular rock walls
I ascertain the distance across
the top of the Cañon by triangulation
as follows: - Having found
a point on the opposite bank of
the Cañon $N 86^{\circ} 21'$ East from the
Stand Cor. to Sp 17. N. Rs. 6 & 7 E
I establish Station A; then

4 Stand Parallel N. through R. & E.
by reference to diagram as
follows:—



Measure the Angle $B.A.C. = 76^\circ$

" " " $A.C.B = 94^\circ 47'$

" Side $A.C. = 700$ lks

" In 2nd Triangle

Measuring the Angle $B.A.D = 90^\circ$

" " " $A.D.B = 82^\circ 09'$

" Side $A.D. = 600$ lks

4th stand Parallel A through R. 7 E.

The side A. B is required.

By Trig. $AB : AC :: \sin C : \sin B$
 $\therefore AB = \frac{AC \sin C}{\sin B}$

$$B = -(A + C) + 180^\circ = 180^\circ - (A + C) = 9^\circ - 13'$$

Then by logarithms

$$\log AB = \log AC + \log \sin C - \log \sin B$$

$$\log AC = 2.845098$$

$$\text{" } \sin C = 9.998485$$

$$\text{" } \sin B = 0.795423$$

$$\text{" } AB = 3.639006$$

$$638988$$

18

$$AB = 43.56 + \text{cls}$$

Chs H Stand Parallel A through R 7 E

2nd triangle A B D

$$\tan \angle ADB = \frac{AB}{AD}$$

$$\therefore AB = AD \tan \angle ADB$$

$$\log AB = \log AD + \log \tan \angle ADB$$

$$\log AD = 2.778151$$

$$\log \tan \angle ADB = 86.0524$$

$$\log AB = 3.638675$$

$$AB = 43.52 + \text{Chs}$$

Now from the Stand Cor to Hs 17 N
 No. 6 and 7 E by triangulating
 across Dry Beaver Cañon as
 above represented I run
 S 86° 21' E on a true line on S boundary
 of Sec 32

7a 14° 10' E

Over rough broken surface

43.56 Left-bank of Dry Beaver Cañon

4th Stand Parallel N. through R & E

Chs

5-2-54 Set Malpais rock 15+10+6 ins 11 ins
in the ground for Stand. Cor to Secs
32 and 33 marked with 4 notches
on the E and 2 notches on the W
edges from which

A Piñon 6 ins diam brs N 30° E 150 lbs
dist marked T, 7 N R 7 E S 33 B, T

A Cedar 7 ins diam brs S 80 E 20 lbs dist
marked T, 6 N R 7 E S 4 B, T

A Cedar 5 ins diam brs S W 40 lbs dist
marked T, 6 N R 7 E S 5 B, T

A Cedar 10 ins diam brs N 30 W 65 lbs
dist marked T, 7 N R 7 E S 32 B, T

Land rough broken

Soil rocky - 4th rate

Timber dense scrub Cedar + Piñon

4th Stand Parallel & through R 7E

S86° 21' E on S. boundary of Sec 33

on 14° 10' E

Over rough broken surface
through dense brush

10.00 Leave brush

12.00 Cross gulch 20 ft wide
Course S.W.

40.00 Set Malpais rock 10 x 10 x 8 ins
7 ins in the ground for Stand 1/4
Sec 33 marked S.C. 1/4 on N
face and raised a mound
of stone alongside. No
bearing trees within limits

60.00 Cross rocky gulch 80 ft wide
Course S.W.

80.00 Set Malpais rock 18 x 10 x 5 ins
15 ins in the ground for Stand

4th Stand Parallel N. through R. 7.

Cor to Secs 33 and 34 marked
S.C. on N. with 3 notches on E. and
Wedges and raised a mound
of Stone alongside from which
W. Cedar 8 mi chain brs S 15° E 40 lks
dist marked T 6 N R 7 E S 3 B. T.

W. Cedar 5 mi chain brs S 30° W 15 lks
dist marked T 6 N R 7 E S 4 B. T.

No other bearing trees within limits

Land broken and rolling

Soil rocky - 14th rate

Timber scattering Scrub Cedar & Pinon

S 86° 21' E. on S. boundary of Sec 34
va 14°/10' E

Over high broken surface

14th Stand. Parallel through R7E

Ascend slope

36.00 Top of spur projecting South
about 160 feet high

Descend slope

40.00 Set-Mulpais rock 12+10+6 ins
8 ins in the ground for Stand 1/4
Set Cor marked S.C. 1/4 on N
face from which

A juniper 22 ins diam bears S15°E
60 lks dist marked S.C. 1/4 S B.T.

A juniper 10 ins diam bears S 20°W
10 lks dist marked S.C. 1/4 S B.T.

71.00 Right bank of Cañon

74.00 Bottom of Cañon 120 feet deep 30 lks
wide Course SW.

79.60 Top of left bank of Cañon

80.00 Set Mulpais 12+10+8 ins

4th Stand Parallel N. through R 7 E

8 ins in the ground for Stand Cor
 to Secs 34 and 35 marked S.C. on N side
 with 2 notches on the E and 4 notches
 on wedges and raised a mound
 of stone alongside, from which
 a Cedar 15 ins diam lies N 70° W 100
 lks dist marked T 7 N R 7 E S 34 B. T.
 No other bearing trees within limits
 Land high & broken
 Soil - rocky - 4th rate
 Timber Scattering juniper & piñon

S 76° 21' E on S boundary of Sec 35
 to 114° 10' E

Over high rolling surface

15.00 Cross Flagstaff & Verde road bet N & S.

36.00 Cross Gulch 50 lks wide Course SW & around

4 Stand Parallel N. through R 7 E

40.00 Set Malpais rock 15+8+5 ins

11 ins in the ground for Stand 1/4

Sec. Cor marked S.C. 1/4 on N face

and raised a mound of stone
along side. No bearing trees

75.00 ~~75.00~~ Foot of Hill about 100 feet high - descend
80.00 Foot of Hill in mid Gulch S.S.W.

Set Malpais rock 15+8+5 ins

11 ins in the ground for Stand

Cor to Sec 35 and 36 marked

S.C. on N. with 1 notch on E

and 5 notches on N. edges and

raised a mound of stone

along side. No bearing trees

within limits

Ground high broken

Soil rocky - 3d rate

Timber scattering juniper

4 Stand Parallel N. through R. 7 E

S 86° 21' E. on S. boundary of Sec 36

7th 14° 10' E

Over high rolling surface

Ascending slope

39.00 Top of ridge bet NE & SW about
75 feet high

40.00 Set malpais rock 10 x 10 x 7 in
7 in in the ground for Stand
1/4 Sec Cor. marked S.C. 1/4 on
N face and raised a mound
of stone along side. No bearing
trees within limits

80.00 Stand Cor to Tps 17 N R. 7 E

Land high rolling

Soil rocky - 3d rate

Timber scattering juniper & pine.

June 14th 1886

4th Stand. Parallel to through R. 7 E

General description
 I found the old Stand line
~~as established~~ through this
 Range to be very irregular;
 all the Cuts varying from
 their true position from 3 to
 5' low. I destroyed the line
 by leveling down the Cuts
 and replacing the marks.
 The line as now established
 runs along the S.W. slope of
 the Mogollon Mountain Range.
 The top on the N ascending
 to the N.E. towards the Summit
 of the range are covered with
 pine, oak, juniper & Piñon
 The top on the South descending

Retracing

4th Stand Parallel through R 6 E
to the Verde river are covered with
oak and other brush and grass
of good quality.

From the Stand, Cor to Sp 17 N R 6 E
previously described by me I run
W. on S. boundary of Sec 36
7th 14° 10' E

4000 Sandstone ~~15~~ + 12 + 8 ins marked
S.C. 1/4 on N. face & mound of stone
5900 Descend from mesa bet N & S 120 feet high
8000 Sandstone 9 + 7 ins
marked S.C. on N with 1 notch on
E and 5 notches on W edges & mound
of stone along side. From which
a Pinon 3 ins diam bet N 68° E 15- lbs dia
marked T 17 N R 6 E S 36 B. T.

Retracing

44th Stand Parallel through N 6 E

Thence I continue

N on S boundary of Sec 35

74 14° 10' E

Over rough broken surface

25.60 Cross Dry wash ^{20 fks wide} Course S.

40.00 Mullein 9 + 8 ins

marked S. C. 74 on N face and

found of stone along side

80.00 Sandstone 10 + 6 ins

marked S. C. on A with 2 notches

on E and 4 notches on W edges

found of stone along side

Thence I continue

N on S boundary of Sec 34

74 14° 10' E

Over rough broken surface

Retracing

4th Stand. Parallel N. through R 6 E

- 10.53 Foot of mesa - Ascend slope
 36.82 Top of mesa has N & S about 80 feet high
 40.00 Sandstone 18 + 14 + 8 ins
 marked S.C. $\frac{1}{4}$ on N face and
 mound of stone
 80.00 Sandstone 24 + 12 + 8 ins
 marked S.C. on N face with 3
 notches on the E and W edges
 mound of stone along side.

Thence I continue

N. on the S boundary of Sec 33
 to $14^{\circ} 10'$ E

Over rough broken surface

- 12.00 Foot of mesa about 70 feet below the cor
 40.00 Sand Stone 18 + 12 + 5 ins
 marked S.C. $\frac{1}{4}$ on N face and

Retracing

4th Stand N. through R to E

Mound of stone alongside

44.16 Cross Arroyo 10 ^{wide} 10 _{ft} Course S

60.00 Cross Arroyo 15 _{ft} wide Course S E

65.20 Foot of Butte around slope

68.10 Top of Butte about 6 ^{high} feet ~~feet~~ descend slope

70.00 Foot of Butte

80.00 Sandstone 16 + 12 + 8 in

marked S. C. or N. face with
4 notches on the E and 2 notches
on the W edges

Mound of stone alongside

thence from

N. on S. boundary of Sec 32

7a 14° 10' E

Over rough broken surface

24.40 Cross Arroyo 16 _{ft} wide Course S

Retracing

4th Street Parallel N through R6 E

40.00 Sandstone 74 + 18 + 5 ins

marked S.C. $\frac{1}{4}$ on N face, and
 moved of stone along side from
 which A Pinon 5 ins diam has
 N 30° W 140 lbs dist marked S.C. $\frac{1}{4}$ S.
 B. T.

50.00 Johnson's Butte 300 feet high has
S 5 - chs

86.00 Sandstone 18 + 14 + 8 ins

marked S.C. on N face with 5
 notches on the E, and 1 notch on
 wedges. Moved of stone
 along side.

Thence I run
 N. on S. boundary of Sect 31

Retracing

4th Stand, Parallel N. through R 6 E

Dip $14^{\circ} 10' E$

Over rolling and broken surface

32.84 Cross road thro Stand S

33.62 Cross Arroyo 14 ft wide course N E

40.00 Sandstone 24 + 16 + 6 ins

marked S.C. $\frac{1}{4}$ on N face

Moored of stone along side from
which A Prior 5 ins diam has S

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

62.00 Begin to ascend slope

76.00 Top of high hill 230 ft high

80.00 Sandstone 24 + 10 + 3 ins

marked S.C. on N face with 6
notches on the E. and 6 notches
on N. edge. Moored

of stone along side

Retracing

4th Stand Parallel N. through R. 5 E.

From the Stand Cor to Top 17. S. R. 5 + 6 E.
just described I run
N. on the S. boundary of Sec 36
7a $14^{\circ} 10' E$

Over broken Country

900 Foot of Sandstone Cliff

40.00 Sandstone 8 + 7 ins

marked S.C. $\frac{1}{4}$ on N face and

mound of stone from which

A Pinon 8 ins diam has S. $40^{\circ} 14' 12$ lbs

^{dist-} marked S.C. $\frac{1}{4}$ S. B.T.

41.10 Cross Arroyo 2100 ft wide Course S

80.00 Sandstone 18 + 18 + 6 ins

marked S.C. on N face with 1

notch on the E. and 5 notches

on the W. edges. Mound of

stone alongside

Retracing

4th Stand. Parallel. through P. 5 E

Thence I run
N. on the S. boundary of Sec 35

7a 14 28' E

Over rough broken surface

7.70 Cross road bis NWSE

8.44 Cross arroyo 10th course SW

12.20 Cross old trail bis NWSE

35.64 Cross arroyo 10th course NW

40.00 Sandstone 16+10+6 in

Marked S.C. 1/4 on N face and

formed of stone along side

57.00 Cross arroyo 13th course N

60.00 Commenced to ascend slope

75.00 Top of Ridge about 175 feet high bis NWSE

80.00 Limestone 14+10+6 in

Marked S.C. on N face with 2 notches

on the E and 4 notches on W edges &

formed of stone along side

Retracing

4th Stand Parallel N through R 5-E

then a line

W. on the S. boundary of Sec 34

to R 5-E

Over rough broken surface

10.28 Foot of Sandstone Cliff to N.W.

23.62 Cross arroyo 18 lks wide course N.W.

37.77 Cross arroyo 14 lks wide course N.W.

46.00 Sandstone 16+10+6 in's

marked S.C. on N. face & mound of stone

62.00 Foot of Bluff to N+S around

66.00 Top of Bluff about 85 feet higher to S. See end

78.75 Cross arroyo 16 lks wide course N.W.

86.00 Sandstone 18+14+8 in's

marked S.C. on N. face with 3 notches
on E and W edges & mound of
stone along side

July 10

Retracing

4th Stand Parallel N through R 5 E

Thence I run

N. on S. boundary of Sec 33

72 1/4° 08' E

Over rough broken surface

26.66 Cross array 13 ft wide Course N W

32.00 Foot of slope ascend

40.00 Sandstone 36 + 18 + 6 ins

Marked S C 1/4 on N face & mounds
of stone along side

53.00 Top of Hill about 230 feet ^{high} N & S, descend

79.85 Cross array 16 ft wide Course N W

80.00 Sandstone 36 + 24 + 18 ins

Marked S C on N face with 4 notches
on E and 2 notches on W edges &

mounds of stone along side found within
a cedar 18 ins diam hrs S 54° W 34°
dist marked 76 N R 5 E S 5 B. T.

Retracing

4th Stand. N. through R & E.

Thence S run

W. on S. boundary of Sec 32.

7a 140 S E

Over rough hilly Country

Ascending slope

26.00 Top of bluff about 75 feet high N W S E

40.00 Mulquin rock 16+10+8 is

marked S C 4 on N face - mound
of stone alongside front which

A. Adams in distance hrs S. 78 lbs dist

marked S C 4 S B. T.

46.00 Top of mountain ridge 90 feet high N S

71.19 Cross Arroyo 15th mile course S W.

80.00 Sandstone 18+12+6 is

marked S. C. on N face with 5 notches
on E and 1 notch on W edges and
mound of stone alongside

Retracing

1st Stream Parallel N through R 5-E

Thence I run

N. on S boundary of Sec 31

7a 14° 08' E

Over rough broken surface

- 3.00 Enter valley hrs NW + SE
- 4.37 Left bank of Oak Creek course SW
- 5.34 Right bank of Oak Creek around slope
- 23.00 Top of bluff 18 feet higher N + S
- 27.00 Edge of Cliff 15 feet higher N + S
- 30.00 Rock in place 18 + 16 + 12 ins
marked with (+) cross on cor point &
S 1/4 on N face
- 42.25 Front of bluff hrs N + S
- 47.77 Right bank of Oak Creek course N 40° W
- 49.61 Left bank " " "
- 67.21 Left " " " " Course SW
- 67.48 Right bank of Oak Creek " " "

Retracing

4th Stand Parallel N through R 5-E

80.00 Cor to Tps 17 N. Rs 4 & 5 E

Mulhain rock 16 + 14 + 6 in

Marked S.C. on N face with 6
notches on N, E & W edges +

found of stone alongside

General description from 13-10-1886

This line through Rs 4 and 6 E
runs across what is known as the
Red Rock Country. The townships on
each side are broken and
mountainous with many abrupt
cliffs and walls of Old red sandstone.
The timber near the line cedar
Piñon oak & juniper is scrubby
and scattering and the pasturage
is good

Ridgely C. Powers,

U.S. Geol. Surv.

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BOOK 1250

U. S. Surveyor-General's Office,

TUCSON, A. T., 188

The foregoing Field Notes of the ^{Re-tracing} ~~Surveys~~ of
the 5th Stand Parl. North through
Range 10 East and 4th Stand,
Parl. North through Rqs. 5, 6, 7, &
8. East. Gila and Salt River Meridian

in Arizona executed by

Ridgley C. Powers.

U. S. Deputy Surveyor, under his contract dated

Feb. 21st 1885

having been critically examined, the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

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

LIST OF NAMES.

BOOK 1250

A List of the Names of Individuals employed by
 Edgely C. Powers U. S. Deputy Surveyor to
 assist in running, measuring and marking the lines and
 corners described in the foregoing Field Notes of the survey of
 the 5th Standard Parallel North
 through Ranges 10 East - and the
 4th Standard Parallel North
 through Ranges 5, 6, 7 and
 8 East -
 of the principal base and meridian in the Territory of Arizona,
 showing the respective capacities in which they acted.

John Peter (Chairman)
 Alfred Smith (")
 Miles Archibald (")
 George Jackson (")
 Richard Brown (Breman)
 Joseph Russell (")
 L. M. Murdock (")

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BOOK 1250

Final Oaths of Assistants.

We hereby certify that we assisted Widley C
Powers U. S. Deputy Surveyor, in surveying
the 5th Standard Parallel North through
Ranges 10 East, and the 4th Standard
Parallel North through Ranges
5, 6, 7, and 8 East

of the principal base and meridian in the Territory of Arizona,
as are represented in the foregoing field notes as having been
surveyed by him and under his direction; and that said Survey,
has been in all respects, to the best of our knowledge and belief,
well and faithfully surveyed, and the corner monuments es-
tablished according to the instructions furnished by the U. S.
Surveyor-General for Arizona.

John Bohler (Chairman)
Alfred Smith (Chairman)

Subscribed and sworn to before me this 9th
day of Sept. 1886



Eugene Parmentier
Notary Public.

Final Oath of U. S. Deputy Surveyor.

I Riley C. Powers

United States Deputy Surveyor, do solemnly swear that in
pursuance of instructions received from Royal A.

Johnson U. S. Surveyor General for Ari-
zona bearing date of the 7th day of October

1885-I have well, faithfully, and truly, in my own proper
person and in strict conformity, with the instructions furnish-

ed by the U. S. Surveyor General for Arizona, the surveying
manual and the laws of the United States surveyed the 5th

Standard Parallel North through
Range 10 East and the 4th Standard
Parallel North through Ranges
5, 6, 7 and 8 East -

of the principal base and meridian in the Territory of Ari-
zona, as are represented in the foregoing fields notes as having
been surveyed by me and under my direction; and I do further
solemnly swear that all the corners of the said survey have been
established and perpetuated in strict accordance with the survey-
ing manual, printed instructions, the special written instruc-
tions of the U. S. Surveyor General for Arizona, and in the

48 specific manner described in the field notes, and that the foregoing are the true field notes of such survey, and should any fraud be detected I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Ridgely C. Powers
U. S. Deputy Surveyor.

Subscribed and sworn to before me, this 9
day of Sept. 1886



Eugene Parmentier
Notary Public.

BOOK 1250