

(1)
N. E. S. and W. BOUNDARIES
of
T. 13, S., R. 21, E.
Rockfellow.

and

South Bay, T. 13, S., R. 22, E.

1595

4-671

BOOK 1595

1595

FIELD NOTES
GENERAL LAND OFFICE.

1595

BOOK

1595

Field Notes
of the survey of The
South Boundaries of
Tps 13 S R 21 and 22 E
and
East, West + North Boundaries
of Tps 13 S R 21 E
of the
Gila and Salt River Base
and Meridians
in the
Territory of Arizona
as surveyed by
John A. Rockfellow
U.S. Deputy Surveyor
Under his contract, ^{no 155} dated May, 20
1900

Survey commenced Nov 21, 1900
Survey completed Dec 18, 1900

2

South Bdy T13S R22E

Name and duties of
assistants

| | |
|----------------|----------|
| O. W. Howard | Chairman |
| Ed Huber | Chairman |
| Jno T Proffitt | Woundman |
| John P Sabin | Woundman |
| James Johnson | Flagman |

Jury

| | | |
|-----------|----------------|------|
| South Bdy | T13S R22E | . 8 |
| " | " " 13S R 21 E | . 17 |
| West | " " 13S " 21 E | . 28 |
| East | " " 13S " 21 E | . 40 |
| North | " " " " | . 50 |

BOOK 1595

BOOK 1595

(4-074.)

Township 13 S R. 21 E

| | | | | | | | |
|----|-----|-----|----|----|----|----|----|
| | 5-5 | 5-8 | 60 | 62 | 63 | 65 | |
| 40 | 6 | 5 | 4 | 3 | 2 | 1 | 52 |
| 38 | 7 | 8 | 9 | 10 | 11 | 12 | 51 |
| 36 | 18 | 17 | 16 | 15 | 14 | 13 | 49 |
| 34 | 19 | 20 | 21 | 22 | 23 | 24 | 47 |
| 31 | 30 | 29 | 28 | 27 | 26 | 25 | 46 |
| 28 | 31 | 32 | 33 | 34 | 35 | 36 | 45 |
| | 26 | 24 | 21 | 19 | 18 | 17 | |

BOOK 1595

6-380

South Body T13 S R 22 E

| | | | | | |
|----|----|----|----|----|----|
| 31 | 32 | 33 | 34 | 35 | 36 |
| 15 | 14 | 13 | 11 | 10 | 8 |

2A

Preliminary Oaths of Assistants.

BOOK 1595

We, O. W. Howard

and Edward Huber

do solemnly swear that we will well and faithfully execute the duties of Chain Carriers; that we will level the chain upon 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 lengths 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 Boundaries

of Tps 13 S Range
21 & 22 E.

of the Gila and Salt River Base and Meridian in the Territory of Arizona.

O. W. Howard Chainman.

Edward Huber. Chainman.

Chainman.

Chainman.

Subscribed and sworn before me, this 21st

day of December 1900 189

John A. Rockfall
Notary Public.

[SEAL] My com. expires
Apr 10 1903.

We, James Johnson 30
John W. Proffitt & John P. Sabin

do solemnly swear that we will well and truly per-

form the duties of Flagman and
Moundman BOOK 1595

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

Boundaries of Tpt
13 S. Ranges 21
and 22 E

of the Gila and Salt River Base and Meridian, in
the Territory of Arizona.

James Johnson
John W. Proffitt
John P. Sabin

Subscribed and sworn to before me this 2/24

day of November 1891 1900

John A. Rockwell
Notary Public.

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S Bdy T 13 S R 22 E

Survey commenced
Nov 21, 1900 and executed
with a Young & Sons
Mountain transit
No 6835 with Smith
solar attachment.
The horizontal limb
is provided with
two verniers placed
opposite each other
reading to single
minutes of arc which
is also the least
count of the verniers
of the latitude and
declination arcs.
The instrument was
examined and
tested on the true
meridian at Tucson

S. Bdy. 413 S R 22 E

Ariz. found correct
and was approved
by the Surveyor General
for Arizona ^{Nov. 24.} Dec 1899
Nov. 22.

Having found the cor
of sec 5, 6, 31 + 32 on S Bdy
Twp 13 S R 23 E spend the
entire day searching
for cor Twp 13 + 14 S R 22,
and 23 E.

Nov. 22.

Not being able to find Twp.
corner I return to the cor
sec 5, 6, 31 + 32 on S Bdy Twp
13 S R 23 E and ^{run} the course
and distance given in
Surveyor General's note viz;
N 89° 57' W 79.60 chs.

at noon observe for

South Bdy T₁₃ S R 22 E

latitude and determine
to be $32^{\circ} 16' N$,

For cor. Sp^s 13 and 14 S.

Rs 22 and 23 E, set
a granite rock 18x10x8 ins
12 ins in ground marked
with six notches on
each edge, raise
mid. of stone 3 ft - base
2 ft high S. of cor.

Pits unfracturable
thence

a cross (x) on Cedar tree
1 ft diam, blazed and
scribed,

T 13 S R 22 E S 36 B. Y. base

N $46^{\circ} W$ 76 lks dist

a cross (x) on White oak
6 ins diam blazed & scribed

T 13 S R 22 E S 36 B. Y. base

South Bdy Y. 135 R 22 E.

cls

$N 2^{\circ} 53' 24''$ 80 lks dist.

"Old Baldy" Peak Santa Rita

Mts brs S $57^{\circ} 08' 24''$

Rincon Peak enveloped in clouds

This mile crosses the main divide of the Winchester Mts over exceedingly rough, rocky precipitous ground.

The Tr cor is situated upon a lofty tableland surrounded on 3 sides by a perpendicular bluff of rocks from 100 to 200 ft high. Nov 23

Saturday Nov. 24, 10 A.M. l.m.t. at the Cor Trs 135 Ranges 22 and 23 E, I establish a meridian with my solar and run W. the South Bdy

South Boundary

- | dis | |
|-------|--|
| .72 | of Twp 13 S R 22 E bet secs 1 and 36 Ta 13° E Land mountainous Rocky bluff 10 ft-abrupt descent |
| 2.39 | Point of rocks overhanging precipice 150 ft-high brs N. and S. From foot of precipice rapid descent angle 20° |
| 12.31 | Gulch 15 ft-wide brs S. W. |
| 31.66 | Enter gulch 60 ft-wide, brs S. & E. |
| 32.2 | Leave gulch and ascend steep mt. side |
| 40.00 | Set a granite rock 15" x 12" x 6" in 10 in in the ground for 1/4 sec cor. marked 1/4 on N. face and raise a rock mound 3 x 2 ft- N. of cor Pits impracticable |
| 46.21 | Top of ridge brs N. + S. |

4135R22E

- 63.03 Apex of rocky peak
- 80.00 Set a granite rock 13-X12X12 in
 6 in in the ground to bed
 rock, for cor secs 1, 2, 35- & 36
 marked with 1 notch on E
 and 5 on W. edges; raise
 a mound of clove $3\frac{1}{2}$ ft base
 $2\frac{1}{2}$ ft high W. of cor.
 Pits impracticable
 Hence a cross on a
 white oak tree 14 in diam
 blazed and scribed
 4135R22E S 35-137 br
 N $68^{\circ}33'$ at 102 chs dist
 Rincon Peak br S $71^{\circ}30'$ W
 Land mountainous
 soil 3rd + 4th rate
 Scattered oak cedar and
 juniper trees
 Mountainous land 80 chs

South Boundary

| cls | |
|--------|---|
| | W. bet secs 2 + 3 $\bar{5}$, var 14 $\bar{15}$ '-E |
| | Over mountainous land |
| 38.25- | Rocky gulch, 30 ft wide bet W. + S. |
| 40.00 | $\frac{1}{4}$ sec cor falls on granite ledge, 20 ft wide which bet S.E. + N.W. chisel a cross x 8 ins long and $\frac{1}{4}$ W. of same build a end of stone 3 ft base 2 ft high W. of cor. (not possible to make rocks stand N. of cor). |
| 53.75- | Gets infractic with granite reef 10 ft wide bet S + W. |
| 62.72 | Enter large wash 120 ft wide, course S.W. |
| 64.25- | Leave wash, ascend mountain side. |
| 80.00 | Set a white limestone 15 x 7 x 7 ins 10 ins in ground for cor secs 2, 3, 34 and 35. |

4 13 S R 22 E

chs

marked 2 notches on 6 and 4
on W. Edges; raise m.d.
of stone 3 ft - base 2 ft - high
W. of cor.

Pite impracticable

Land mountainous

Soil 3^d and 4th rate

No timber

Mountainous land 80 chs

W. bet secs 3 and 34 var 12308

Over mountainous land

4.31 Peculiar rock 8 ft high 10 ft wide

5.30 Summit of Mts, bet N.W.E. & S.S.W.

Descend mountain

40.00 Sit granite rock 14x10x8 ins

9 ins in ground for

1/4 sec. cor, marked 1/4 on N. face

South Boundary

cho

raise mid of stone
N. of cor. $3\frac{1}{2}$ ft - base 3 ft -
high.

Pit is impracticable
Land becomes rolling,
not mountainous. Nov 24

63, 19

^{Nov 26} Road to Davis ranch course N. + S.

75, 48

Enter draw, course N. E. + S. W.

80, 00

Set granite rock, $15 \times 12 \times 7$ ins
10 ins in ground for cor
ees 3, 4, 33 + 34, marked
with 3 notches on 6 + 3 on
It edges. Dig pits
 $18 \times 18 \times 2$ ins in each cor. $5\frac{1}{2}$ ft -
dist, raise mid of earth
4 ft - base, 2 ft - high N. of cor.
Land mountainous and
rolling.

Soil 2nd and 3rd rate

No timber

Y. 13 S. R. 22 E.

chs

Mountainous land 40 chs

It. bet. secs 4 and 33 Var. 12° 30' E

Our rolling ground

7.04 Wash 30ft wide, course N.E + S.W.

8.93 Lease draw

40.00 Set a granite rock 15 X 10 X 7 ins
10 ins in the ground for
1/4 sec cor marked 1/4 on N. face.
dig pits 18 X 18 X 12 ins E + W of
stone 3 ft. dist; raise md
of earth 3 1/2 ft base 1 1/2 ft high
N. of cor.

80.00 Set granite rock 16 X 12 X 12 ins
12 ins in ground for cor
of secs 4, 5, 32 and 33
marked with 4 notches
on E and 2 on W. faces
dig pits 18 X 18 X 12 ins in
each sec, 5 1/2 ft. dist and

South Boundary
cls

raise a mound of earth
4 ft base 2 ft high N. of cov
Land rolling
Soil 2nd rate
No timber
Scattering Mesquit brush
Good grass

H. between 5-7 32. Var 13° E.

- 1.43 Enter broad draw, course S.W.
- 12.72 Leave draw
- 40.00 Set granite rock 18 X 12 X 12 ins
12 ins in the ground for 1/4 sec
cov. marked 1/4 on N. face
dig pits 18 X 8 X 12 ins E + N
of cov. 3 ft dist; and raise
a mound of earth 3 1/2 ft base
1 1/2 ft high N. of cov.
- 80.00 Set a granite rock 15 X 10 X
10 ins 10 ins in the ground.

Y 13 S R 22 C.

cho

for cor of secs 5, 6, 31 & 32
 marked with 5 noleties on
 E and 1 on W. edges; dig
 pits 18X18X12 ins in each
 sec. 5-1/2 ft. dist, and raise
 mid of earth 4 ft. base 2 ft.
 high N. of cor.

Land level, sloping W.
 Soil 2^d rate.

No timber nor brush.

W. bet secs 6 & 31. Var 13° E

Over rolling ground

40.00

Set a quartzite rock 12X11X
 7 ins 8 ins in the ground
 for 1/4 sec cor, marked
 1/4 on N. face; dig pits
 18X18X12 ins E + N. of cor, 9 ft. dist
 and raise mid. of earth
 3 1/2 ft. base 1 1/2 ft. high N. of cor.

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BOOK 1595

South Bdy T13 S R22 E

chs
79.09

Set a granite rock 17x10x10 ins.
12 ins in the ground
for cor of Tps 13+14 S
R21+22 E, marked with
6 notches on each edge;
dig pits 24x24x12 ins
N. E + W. of stone 4 ft
dist + S. of stone 8 ft dist
and raise mid. of each
5 ft base 2 1/2 ft high
S of cor.

From which

Rincon Peak brs $S 67^{\circ} 30' W$
to 3 Peak Huachuca mts
brs $S 8^{\circ} 13' W$

High Peak of the Galinas
brs $N. 25^{\circ} 08' E$

Land level + rolling
soil 2nd rate

No timber, very

S. Bdy 9 13 S R 21 E

little brush

Nov 26

At bet sec 1 + 36 on S. Bdy
 9 13 S R 21 E Var $12^{\circ}45' E$
 Over level ground

12.12 Enter draw course, N.E + S.W

21.21 Leave draw

40.00 Set a quartzite rock $12 \times 12 \times 6$ ins
 8 ins in the ground for $\frac{1}{4}$ sec cor
 marked $\frac{1}{4}$ on N. face; dig
 pits $18 \times 18 \times 12$ ins E + W of cor
 3 ft dist; raise mid of
 earth $3\frac{1}{2}$ ft - base $1\frac{1}{2}$ ft high
 N. of cor

80.00 Set a granite rock $16 \times 10 \times 4$ ins
 12 ins in ground for cor
 of sec 1, 2, 35 and 36
 marked with 1 notch on E
 and 5 on W. edges; dig
 pits $18 \times 18 \times 12$ ins in each sec

South Boundary
etc

$5\frac{1}{2}$ ft - dist, raise and
of earth 4 ft base 2 ft -
high N. of cor.

Land level + rolling
Soil 2nd rate

No timber

- It bet - sec 2 and 35 - Van $12^{\circ} 45' E$
- 36.81 Wash 25- fks wide course S. W.
- 40.00 Set a quartzite rock 16x9x9 ins
12 ins in ground for $\frac{1}{4}$ sec cor
marked $\frac{1}{4}$ on N. face; dig pits
18x18x12 ins E and W. of cor
raise and of earth $3\frac{1}{2}$ ft -
base $1\frac{1}{2}$ ft high N. of cor.
- 50.60 Enter wash, course S. W.
- 52.12 Leave wash
- 55.45 Gulch 15- fks wide course S.
- 71.51 Gulch course S W
- 73.93 Divide brs N. + S.

4135 R 21 E.

80.00 Set a quartzite rock 14x8x5 in
 in the ground for cor
 of secs 2, 3, 34 + 35 - marked
 with 2 notches on E. and 4
 on W. edges. raise and
 of stone 3 1/2 ft - base and
 3 ft high W. of cor.

Pits impracticable
 Land level, rolling and
 rough.

Soil 2nd rate

No timber, little brush

W. bet secs 3 + 34. Var 123° E
 Over rolling and moun-
 tainous ground

4.50 Descend into cañon
 course N. E. and S. W.

6.81 Wash 22 lks wide

9.84 Ascend slope

South Boundary

- chs
 23.33 Cross deep gulch 30 lks
 wide, course S.
- 32.60 Road from Wilcox to
 Hot Springs brs N. and S.
- 33.50 Point of high hill
- 34.99 Descend steep hill side
- 39.39 Wash of cañon 30 lks wide
 course N. and S.
- 40.00 Set a granite rock 14x8x
 8 ins 10 ins in ground
 for $\frac{1}{4}$ sec cor, marked
 $\frac{1}{4}$ on N. face, dig pits
 18x18x12 ins, 3 ft E and W
 of stone, and raise
 mid of earth $3\frac{1}{2}$ ft - base
 $1\frac{1}{2}$ ft high N. of cor.
- 44.90 Wash 9 lks wide course S.E.
- 49.10 Ridge brs S.E. + N.W.
- 54.25 Wash 15 lks wide course, S.E.
- 58.45 Ridge brs S.E.

Y 13 S R 21 E

chs

- 5-8, 48 Gulch 1200 wide course S.E.
 61.30 Ridge brs S.E.
 68.09 Deep gulch 1000 wide course S.
 70.30 Ridge brs S.E. + N.W.
 80.00 Set a limestone rock 18x12x7 ins
 12 ins in the ground for cor
 of secs 3, 4, 33 and 34 marked
 with 3 notches on E and W
 edges; dig pits 18x18x12 ins
 in each sec 5 1/2 ft dist
 and raise a wd of earth
 4 ft base, 2 ft high N. of cor.
 Land mountainous
 Soil 3rd rate
 No timber
 Mountainous land 80.00 chs
 Nov 26, 1900

Nov 27,

W. of sec 4 and 33 var 1230' E

South Boundary
chs

- Over mountainous land.
Ascend
- 2.25- High Ridge brs N. + S.
- 4.54 Wash in cañon 12 lks wide, course S.
- 13.15 Ridge brs N. and S.
- 14.39 Wash in cañon 15 lks wide course S.
- 15.95 Ridge brs N. and S.
- 18.85 Wash in cañon 9 lks wide course S.
- 24.75 Ridge brs N. and S.
- 30.30 Wash in deep cañon 30 lks wide, course N. and S.
- 40.00 Set a cement rock 15 x 11 x 6 ins 11 ins in the ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on N. face; build md of rock 2 $\frac{1}{2}$ ft base, 2 $\frac{1}{2}$ ft high N. of cor.

Y. 13 S. R. 21 E.

chs

Pits impracticable

Observed for lat. result $32^{\circ} 16' N$.

50.60 Crest of hill, bcs N. and S.

56.66 Wash in cañon 12 lks wide, course S.

62.75 Ridge bcs N. and S.

73.48 Wash in cañon 15 lks wide course S.

74.93 Large rock on line

80.00 Set a cement rock $1/4 \times 10 \times 6$ ins
10 ins in ground for cor
secs 4, 5, 32 and 33, marked
with 4 notches on E. and
2 on W. edges; raise
ind of rock $3\frac{1}{2}$ ft base
 $3\frac{1}{2}$ ft high W. of cor.

Pits impracticable

Land mountainous
Soil 3rd rate.

No timber

South Boundary
chs

Mountainous land 80 chs.

West. bet secs. 3 & 32 Var. $12^{\circ}45'E$

Over mountainous ground
Ascend slope

11.48 Saddle in main divide bet N. & S.

Descent very steep into
rough, broken country.

40.00 The point for $\frac{1}{4}$ sec. cor
falls on conglomerate
rock in place 10 ft long,
3 ft high and $3\frac{1}{2}$ ft wide;
chiseled a cross (+) 8 in long
and $\frac{1}{4}$ in. of same.

Build a md. of stone
 $2\frac{1}{2}$ ft base, 2 ft high N. of cor
point Pile infractured. Nov 27 -
Nov 28, 1910

40.15 Wash of deep cañon 24 ft
wide course S. Cottonwood

Y 13 S R 21 E.

cls

trees about water holes
5-chs S.

Ascend very steep slope
of ridge

48.00 Summit of high ridge brs N. & S.

5-4.30 Gulch 16 ft wide, course S.

5-6.50 Ridge brs N. and S.
thence over rough,
rocky ground.

80.00 Set a conglomerate rock
14x11x6 ins 10 ins in the
ground for cor of secs
5, 6, 31 and 32 marked
with 5 notches on E.
and 1 on W. edges
raise a md of stone
3 1/2 ft base 3 ft high W
of cor. pits impracticable
Land mountainous
Soil 3rd and 4th rate

South Boundary
cls

No timber
 Mountainous land 80 cls

- It. bet sec 6 and 31 Var $230^{\circ}E$
 Over mountainous ground
- 19.49 Rocky ridge bet N. and S.
- 29.91 Wash in cañon 15-ft
 wide, course S.
- 34.84 Wash in Kelsey cañon
 112 ft wide, course N. N. W.
- 40.00 Set a limestone $13 \times 12 \times 5$ ins
 8 ins in the ground at
 foot of steep slope for
 $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face; raise
 around of stone $2\frac{1}{2}$ ft base
 $2\frac{1}{2}$ ft high N. of cor.
 Dito impracticable
- 46.06 Wash inside cañon, course N.
- 54.10 Ridge bet S + N.

Y 13 S R 21 E.

ch

54.28 Wash in cañon 100ks wide
course S, and N.

5-8.75 Very steep ascent.

79.09 Set a limestone $17 \times 13 \times 8$ ins
12 ins in the ground for
cov of Tps 13 and 14 S. R
20 and 21 E, marked
with 6 nolets on each
of its 4 edges; raise
end of stone $3\frac{1}{2}$ ft. base
 $2\frac{1}{2}$ ft high S of cov.
Big impracticable
thence

a peculiar rocky butte
at the box of Kelsey cañon
br. $S 79^{\circ} 02' E$ about 2 miles dist.

A high peak of the Galena
Mts br. N. $5^{\circ} 25' W$

Another high peak just
visible over ridge br.
N. $30^{\circ} 02' W$. This cov. is

Western Boundary

chs

on N.E. slope of a high limestone ridge 200 ft below the divide, from which the San Pedro river is visible.

Land mountainous

Soil 2nd rate, + 3rd rate

No timber

Much brush along Kelsey's cañon

Mountainous land 79.09 chs

Nov 28

Nov 29

Thence Iron

N. bet secs 31 and 36 Var 12° 40' E

Over very mountainous country

Descend along ridge course S.E. and N.W.

9.00 Descend rapidly into

Y 13 S R 21 E.

- chs
Kelsey's cañon
- 22.00 Enter wash of Kelsey's cañon
120 lks wide course at
this point N. N. W.
- 28.20 Point whence a corral
brs W. 5 chs (about)
Also Delahanty's spring
in a cottonwood grove
brs W. about 12 chs.
- 31.80 Ascend steep bluff 40 ft-
high, out of Kelsey's
cañon which at this
point brs W.
- 40.00 Set a limestone 15 X 12 X 8 ins
10 ins in the ground for
1/4 sec. cor, marked 1/4 on W
face; raise a nd of
rock 2 1/2 ft base, 2 ft high
W. of cor.
Pits infracticable

- Wester Body 7.13 S R 21 E.
 clc
- 42.20 Hill top covered with boulders
- 43.75 Wash in cañon 15 lks
 wide, course W.
- 46.60 Ridge brs. E + W
- 50.10 Deep rough cañon
 24 lks wide, course S W.
- 53.90 High ridge brs S W.
 Very steep descent into
 cañon.
- 57.60 Wash in cañon 20 lks
 wide, course S W.
 Very steep ascent
- 69.20 Ridge brs E, and W.
- 73.90 Wash in cañon 12 lks
 wide course W
- 74.00 High divide brs E + W.
- 75.69 Wash in cañon 12 lks
 wide course W.
 Ascend rough slope
- 80.00 Point for cor of sec 25;

Feet 3 Body 413 SR 218
cls

30, 31 and 36 falls on
conglomerate rock in
place, 4 ft by 3 ft - cut
a cross (X) this long with
1 notch on S. and 5' on
N. of same.

Raise end of stone 3 1/2
ft base, 2 1/2 ft - high
W. of cor

Pits impracticable
Land mountainous
Soil 3rd and 4th rate
No timber, some brush,
Mountainous land 80 cls

N. bit sec 25 + 30 var 12 4 5' E

Over mountainous land
Ascend

00.40

Saddle in high divide
course E. and W.

West Bdy 413 SR21E
cls

Descend over an exceedingly rough country sloping Westward

40.00 On S. slope of steep precipice extending Westward from main mountains the point for $\frac{1}{4}$ sec. cor. fall on a conglomerate ledge 5 ft by $3\frac{1}{2}$ ft. Chisel a cross (x) 7 in long and 14 ft. of same; raise mid of stone 3 ft base 2 ft high W. of cor pt. Pits impracticable

Thence ascend across a succession of gulches and ridges extending Westward from main mountain country slopes

West Bdy 413 S R 21 E
 chs

rapidly Westward.

80.00

The point for cor of
 secs 19, 30, 24 and 25 falls
 on a conglomerate boulder
 in place 2 ft by 3 ft by 4 ft -
 chisel a cross (x) 8 ins long
 with 4 notches on N, and 2
 on S. of same, raise
 a md of stone 4 ft base
 3 ft high N of same.

Pits impracticable.

Land mountain-
 ous

Soil 3rd and 4th rate
 No timber.

Some brush.

Mountainous land
 80 chs.

Nov 29, 1900

West Boundary

chs

- U. bet secs 19 and 24 var $12^{\circ}45'-E$
 Over broken mountain-
 ous country
 Slight ascent.
4. 75 High divide bet E and W
 Thence into a great
 basin, rough and rocky
 ground, course E and W.
 about 2 miles wide.
 Descend over broken
 ground covered with
 large boulders.
13. 50 Small ridge bet W.
 Thence descend rap-
 idly
19. 30 Gulch 12 lks wide, course N. W.
22. 45 Ridge bet S. E. and N. W.
23. 40 Gulch 20 lks wide, course S. W.
 Thence over very broken
 country.

Y 13 S R 21 E.

- dis
38.00 Ascend slope of singular ridge, brs E. and W.
- 40.00 Set a granite rock 15x10x10 ins, 10 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; raise mid of stone $2\frac{1}{2}$ ft base 2 ft high W of cor. Pits impracticable.
- 43.25 Summit of ridge brs E. + W.
- 63.70 Main cañon 700 ft wide, draining basin, course E + W. Thence ascend over broken country.
- 80.00 Set a quartzite rock 14x11x7 ins, 10 ins in the ground for cor of secs 13, 18, 19 + 24 marked with 3 notches on S, and 3 on W. edges. Raise mid of stone

West Boundary

des

3 1/2 ft base 2 1/2 ft high
W. of cor.

Pits impracticable

Land mountainous

Soil 2nd and 3^d rate

No timber

Mountainous land

80 chs

N. bet secs 13rd & 18. Twp 12 4 5 E

Over rough and mountainous country

40.00

Set a conglomerate rock
15 X 13 X 11 ins 10 ins in ground
for 1/4 sec cor, marked 1/4 on
the W. face, raise mid
of stone 3 1/2 ft base 2 ft
high W. of cor. Pits impracticable
Thence across a suc-
cession of gulches

G. 13 S. R. 21 E.

chs

and ridges running
S. W. into the main Cañon

65.00

Ascend steep slope leading
to high bluff of rocks.

80.00

Set a conglomerate rock
25' X 14' X 8' in 16' in ground
for cor secs 7, 12, 13 and 18
marked with 4 notches

on S + 2 on W. edges

Raise end of stone
4 ft base, 2 1/2 ft. high
W. of cor.Pits impracticable
Land mountain-
ous.Soil 2nd and 3rd rate

No timber.

Mountainous land 80 chs

Nov. 30, 1900

West Boundary

dis

Dec 1st 1900N. bet. sec 7 and 12 Var $12^{\circ} 55' E$

Over very mountainous country.

00.15- Precipitous ascent 100 ft high. Thence ascend crossing a succession of high ridges and deep gulches sloping Eastward.

31.40 Saddle in high divide bet E. & W.

40.00 Set a conglomerate rock 14x10x8 ins, 10 ins in ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ on W. face; raise a mound of stone $3\frac{1}{2}$ ft base $2\frac{1}{2}$ ft high W. of cor. ~~Put in imp. post trip~~
Thence descend crossing a succession of gulches and ridges sloping Westward.

51.93 Wash 15 lbs wide, course 8 ft

Y 13 S R 21 E

chs

Thence ascend S. slope
of a high mountain
surmounted by crest
of rock 200ft high

73.00

High ridge sloping W.
perpendicular bluffs 2 to 3
chs E. of line

Thence descend rapidly
N. slope of high mountain.

80.00

Set a granite rock 16x10x10^{ins}
11 ins in the ground for
cor of secs 1, 6, 7 and 12
marked with 1 notch
on N. and 3 notches on
S. edges; raise ind
of stone 4ft base,
2¹/₂ ft high W. of cor.

Pits impracticable
Land mountainous
Soil 3rd/₄ the rate

West Boundary
che

No timber, little brush.
Mountainous land
80 che

Var 12° 45' E

N. bet sees 1 and 6

Our mountainous country
Descend steep slope of
high mountain

- 13.75 Foot of descent
- 21.30 Wash. in deep ravine
15 lbs wide course E. & W.
- 24.85 Ridge bet E. and W.
- ~~24.85 Ridge bet E. and W.~~
- 27.95 Wash. in deep ravine
7 lbs wide, course N. E.
- 28.95 Ridge bet SW and N. E.
- 38.80 Rocky reef course, N E ²/₃ and SW.
- 40.00 Set a conglomerate
rock 18x12x8 ins, 12 ins in
the ground for 1/4 sec. cor.

Y 13 S. R 21 E

chc

marked $\frac{1}{4}$ on W. face;
raise end of stone
3 ft base, 2 ft high
W of cor.

Pits impracticable

Succession of ridges and
gulches, course N.E.

60.90 High ridge course N.E. T.S.W.

64.00 Run along steep bank
course N. and S.

66.05- Narrow gulch $5\frac{1}{2}$ lks wide
course N.E.

66.60 Ridge brs N.E. and S.W.

70.85- Wash 120 lks wide, course
N.E.

77.00 Ridge brs N.E. and S.W.

80.00 Set a granite rock 16 x 9 x
9 ins 8 ins in ground
to bed rock for cor 7 ps 12 +
13 S Rs 20 and 21 E, marked
with 6 notches on each of

West Boundary

its 4 edges; raise wd
of stone 4ft base $2\frac{1}{2}$ ft high
S. of cor. ~~from which~~

Pite impracticable, whence
A cedar tree 1ft diam
brs $S 22^{\circ} 10' E$ 262 chs dist,
marked with a cross (X)
and blazed + scribed
T. 13 S. R. 21 E. Sec. 6 B. 7.

A cross on a cedar
tree 8ins in diam,
blazed and scribed
T. 12 S R. 21 E Sec 31 B 7
brs $N. 67^{\circ} 35' E$ 1.67 chs dist.

A very sharp peak just
visible over ridge brs

$N. 18^{\circ} 56' W$ about 2 miles.

A stump bottle in saddle
brs $S 13^{\circ} 40' W$ about $1\frac{3}{4}$ miles

Var $13^{\circ} 30' E$

Y. 135 R 2/E

che

Land mountainous
sloping N.E. toward
Hot Springs Cañon.
A few scattering Cedar
trees.

Mountainous land 80 che
Dec 1st, 1900

Dec. 1st at 9hrs ^{min} 34 $\frac{1}{2}$ l.m.t.
observe star Polaris in
accordance with "Hour
Angle Method" described
in manual (pages 109-117),
Observation at camp at
Hookers Hot Spring N.E. 1/4
Dec. 6 Establish meridian
by back heads in stakes
North and South of obser-
vation point.

Dec 2, at 10 A.M. l.m.t.

East Bdy 413 S R 21 E
cls

I set off $32^{\circ} 21' N$. on lat
arc and $21^{\circ} 57' S$ on decl
arc and establish me-
ridian with solar.

at noon observe for lat.
and find it agrees
with that used ($32^{\circ} 21' N$)

Afternoon observation
for meridian agrees
with forenoon, which
is the same as determined

last night by observa-
tions of Polaris within $15''$.

Hence I know that my
solar apparatus is
in good adjustment
up to date since the
beginning of the work,
the sky has been
obscured by clouds at

East Bdy 7 13 N. R 21 E

night and weather
tempestuous

Dec 3rd from the
cor of Tps 13 and 14 S
Ranges 21 and 22 E, 2 run
N. bet. sec. 31 + 36 var. 1245' E
Over level ground known
as Allen Flat.

40.00

Set a quartzite rock 16x13x
9 ins 11 ins in ground
for 1/4 sec. cor. marked
1/4 on W. face; dig pits
18x18x12 ins on line N +
S. of cor 3 ft dist; raise
a rnd of earth 3 1/2 ft base
1 1/2 ft high W. of cor.

80.00

Set a granite rock
14x12x10 ins 10 ins in ground
for cor. bet sec. 25, 30, 31 + 36
marked with 5 notches on

East Boundary
line

N. and S edges;
dig pits 18x18x12 ins in
each sec 3-1/2 ft dist and
raise mid of earth 4 ft
base, 2 ft high W. of cor
Land level, soil 2nd rate.
No timber, little brush.
Good grass

var 1245-E

N. bet. secs 25 and 30

Over slightly rolling
country

40.00

Set a quartzite rock
16x9x9 ins 11 ins in the
ground for 1/4 sec cor
marked 1/4 on W. face
Dig pits 18x18x12 ins on
line N. and S of cor 3 ft dist.
raise mid of earth
3 1/2 base 1 1/2 ft high W. of

G. 13 S. R. 21 E.

cho

cov.

80.00

Set a quartzite rock 15 x
12 x 9 ins 10 ins in ground
for cov of sec 19, 24, 25 + 30
marked with 4 notches
on N. and 2 on S. edges
dig pits 18 x 18 x 12 ins in
each sec 5-1/2 ft. dist,
raise mid of earth 4 ft-
base 2 ft high N. of cov
Land level and rolling
Soil 2nd rate
No timber

var 12° 45'-E

N. bet. sec 19 + 24

Country more rolling

40.00

Set a porphyry rock
17 x 10 x 5 ins 12 ins in the
ground for 1/4 sec. cov
marked 1/4 on N. face;

East Boundary
 etc

dig pits 18x18x12 ins on
 the line N and S of cor
 3 ft - dist raise a md of
 earth 3 1/2 ft - base 1 1/2 ft high
 It of cor.

79.80

Approach descent into
 Davis Cañon

80.00

Set a porphyry rock 15-
 x12x10 ins, 10 ins in the
 ground for cor of secs
 13, 18, 19 and 24 marked
 with 3 notches on the
 N. and S on S edges
 Raise md of stone 3 1/2 ft -
 base 2 1/2 ft - high It. of cor.
 Pits impracticable
 Land rolling
 soil 2^d rate, no timber
 Little brush, good grass

Y 13 S. R. 21 E.

chc

var $12^{\circ} 35' E$

H. bit sees 13 and 18

just below rim of Davis
cañon, steep descent -
Land mountainous

3.00

Enter plain in cañon
course E. and W.

Through scattering oaks

8.85-

Wash 35 lks wide, course E & W.

10.30

Leave cañon and over
high rolling hills

15.15-

Enter draw, course E. and W.

30.30

Leave draw course E and W
high rolling hills

35.52

Wash in cañon 30 lks wide
course W.

40.00

Set a porphyry rock $20 \times 8 \times 6$
ins 13 ins in the ground
for cor of 1/4 sec, marked
1/4 on W. face, dig pits
 $18 \times 18 \times 12$ ins on line 3 ft dist.

East Boundary

chs

raise end of earth 3 ft-
base $1\frac{1}{2}$ ft high W. of cov.
Thence over more moun-
tainous land, across
ridges and cañons
sloping Westward.

65.66

Wash in large cañon
45 lks wide course S. W.
Ascend and along top of
high smooth ridge

80.00

Set a porphyry rock $16 \times 11 \times 7$
ins 11 ins in the ground
for cov of sec 7, 12, 13 and 18
marked with 2 notches
on the N and 4 on S edges
raise end of stone $3\frac{1}{2}$ ft-
base 3 ft high W. of cov
its impracticable
Land rolling and
mountainous.

Y 13 S. R. 21 E.

chs

Soil 2^d and 3^d rate
Scattering Oak and Cedar
trees in Davis Cañon
Mountainous land 80 chs.

var. 12° 45' E

N. bet sec 7 and 12

Over a succession of
ridges, cañons &c. course N.

40.00

Set a limestone 13' x 9' x 6' in
10' in the ground for
1/4 sec cor marked 1/4 on
N. face; raise end of
stone 2 1/2 ft - base, 2 ft - high
N. of cor.

Pile impracticable

71.00

Approach sharp descent
Land mountainous

75.00

Deep gully wash 6 lks wide
course N. N.

77-70

Sharp ridge. brs S.E. and N. N.

East Boundary

cls

80.00

Set a limestone 13X13X9 ins
9 ins in the ground
for cor of secs 1, 6, 7 and 12
marked with 1 notch
on the N. and 5 on Sedges.
raise mid of stone 3 1/2 ft -
base, 2 ft high N of cor
Pile impracticable
Land rough and
mountainous
Soil 2^d and 3^d rate
A few scattering oaks
Much brush on east-
slope

Mountainous land 80chs

Dec 3, 1900

Dec 4,

N. bet secs 1 and 6

var 12° 45' 6"

Descend slope into broad
cañon

Y 13 S R 21 E.

Land mountainous

3.40

Wash 37 lks wide, course W

6.06

Leave cañon and ascend
steep slope

30.30

High ridge brs E. and W.

40.00

Set limestone 14x9x7 ins
10 ins in the ground
for $\frac{1}{4}$ sec. cov. marked
 $\frac{1}{4}$ on W. face, raise
mid of stone $2\frac{1}{2}$ ft - base
2 ft - high W. of cov.
Pits infracticable

43.03

Wash in cañon, course W

60.60

Observe for lat. result - $32^{\circ} 21' 4''$.

61.60

Summit of ridge brs E. and W.

68.20

Wash in cañon 30 lks wide
course W.

68.30

Dead Cedar tree 18 ins diam
on slope; of steep ascent
covered with dense growth

5-4

BOOK 1595

East Bdy 4.13 S. R. 21 E

cls

80.00

of Anole or soap mud.
 Set a volcanic rock 18x12x
 10 ins 12 ins in the ground
 for cov of 4ps 12 and 13 S.
 Rs 21 and 22 E. marked
 with 6 notches on each
 of its 4 edges. raise
 end of stone 3 1/2 ft base
 2 1/2 ft high S of cov.

Pitō impracticable
 Hence

Rincon Peak brs S 5-5° 5-6 ft

"Old Baldy," Santa Rita Mts.

brs S 42° 5-8 ft

^{group of} trees on highest peak
 of Winchester brs N 72° 10' E

Land mountainous

Soil 2^d and 3^d rate.

Oaks and Cedars in

cañon N. of cov sees 1, 6, 7, + 12

W. Bdy Tps 13 S R 21 E

chs

Little brush except in
cañons.

Mountainous land 80 chs

From cor Tps 12 and 13 S.
R 21 and 22 E I run,
It. on a random line
setting $1/4$ and sec. corners
every 40 chs. & 80 chs.

479.3-4

Intersect W Bdy of Tps at
the cor of Tps 12 and 13 S.
R 20 and 21 E.

Thence I run E. on true
line bet secs 6 and 31
Var $12^{\circ} 30' E$.

Descend across broken
mountainous ground

12.75- Wash 600k wide, course N.

18.24 Foot of steep ridge.

24.5-2 Summit of steep rocky

5-6

BOOK 1595

North Boundary
chs

- ridge, brs N. and S.
height of land, extending
N. from lone mountain
- 32.86 Cross sharp rocky ledge
brs N. and S.
- 37.00 Mitchell house about 10 1/2 chs N.
39.54 Set a porphyry rock 14x12x8
~~40.00~~ ins 10 ins in ground
for 1/4 sec. cor, marked
1/4 on N. face; raise end
of stone 3 ft-base 2 1/2 ft-
high N. of cor
Pits impracticable
- 40.60 Leave mountainous land
Descend slope
- 41.35 Enter large wash course N.N.W.
- 43.30 Leave same wash
- 43.70 Road brs S.S.E. and N.N.W.
- 44.30 barbed wire fence course N.W. + S.E.
- 45.90 Enter wash Hot Springs

Y 13 S R 21 E.

chs

- Cañon 100 lks wide course N. W.
- 48.90 Leave same wash
- 49.62 Barbed wire fence course N. W. + S. E.
- 5-2.15 Circular corral fence
- 5-4.50 Leave corral
- 5-5.90 Barbed wire fence
course N. W. and S. E.
- 5-7.25 Barbed wire fence
- 59.60 Leave valley of Hot Springs
cañon brs N. N. W. and S. S. E.
- 64.12 Road brs N. E. and S. W.
- 64.18 A Point whence N. peak
of house at Hot Springs brs S 16° 36' W
- 79.54 ~~80.00~~ Set a porphyry rock 15" X 10" X 9"
ins 10 ins in ground
for cor of secs 5, 6, 31 and 32
marked with 5 notches
on E and 1 on W. edges.
dig pits 18" X 18" X 12 ins in
each sec 5 1/2 ft- dist.

North Boundary
cls

raise mid of earth 4 ft -
base 2 ft high N. of cor.
Land mountainous
and rolling

Soil 1st 2^d and 3^d rate
Many cottonwood + Walnut
trees in Hot Springs Cañon
Scattering cedars first 1/2 mile
Mountainous land 40.60 cls

E. bet sec 5 and 32 ^{var 12° 45' E}

Over rolling country

4.81 Point whence N. peak of
house at Hookers Hot
springs br S 53° 52' W

One Spring br S 58° 55' W

40.00 Set a cement rock 16x10x
8 ins high in the ground
for 1/4 sec cor, marked
1/4 on N. face. dig pit

T 13 S R 21 E.

chs

18X18X12 ins on the line

E and W of cor, 3 ft- dist.

Raise mid of earth $3\frac{1}{2}$ ft-
base $1\frac{1}{2}$ ft- high N. of cor.

56.20 Enter draw, course S.

59.25- Leave draw.

80.00 Set a volcanic rock 16X12X
7 ins 11 ins in ground
for cor secs, 4, 3, 32 and 33
marked with 4 notches on
the E and 2 on W edges
Dig pits 18X18X12 ins in
each sec $5\frac{1}{2}$ ft- dist-
raise mid of earth
4 ft- base 2 ft- high W of cor
Land rolling sloping S
toward Hot Springs Cañon.
Soil 2^d rate - no timber
Little brush

North Body T. 13 S. R. 21 E.

cls.

var 12° 40' E

E. bet secs 4 and 33

Lean rolling hills for
mountains35.45 Deep cañon wash 15 lks
wide, course S. W.

40.00 Det porphyry rock 84 x 8 x 7 in

~~37.30~~ Pits in the ground
for 1/4 sec cor, marked~~38.80~~ 1/4 in N face, raise40.00 end of stone 3 1/2 ft base
2 1/2 ft high N. of cor.
Pits impracticable

50.40 Divide bet N. and S.

57.30 Deep gorge wash 2 lks wide
course S. E.

58.80 Divide bet N. and S.

60.85 Deep gorge course S. E.
Cross a series of gulches
and ridges course S. S. E.
Descend steep hillside