

Recd July 18. 93.

I.

1719

BOOK 1719

1719

4-671

FIELD NOTES

~~GENERAL LAND OFFICE~~

of the

Retracement of the 2nd Standard
Parallel South thro: Range 1 East
and the Principal meridian thro:
Tp: 11 South and the establish^g
of the 2nd Standard Parallel
South through R^s 1. 2. 3. 4 West.
By L. Wolfley - Contract N^o 25.

Dated Jan 16. 93.

Survey commenced April 2. 93
completed April 9. 93.

2 nd Stand. Par. 1. Through. R. 12. Pg. 1 to 7
Principal Mendicant. Pg. 8. to 22
2 nd Stand. Par. 1. Through. R. 1. W. Pg. 23 to 32
" " " " " " 2 " " 33 to 44
" " " " " " 3 " " 45 " 54
" " " " " " 4 " " 55 " 67
" " " " " " 5 " " 68 " 77
" " " " " " 6 " " 78 " 85
" " " " " " 7 " " 89 " 99
" " " " " " 8 " " 100 " 110
" " " " " " 9 " " 111 " 121
" " " " " " 10 " " 122 " 131
" " " " " " 11 " " 132 " 143
" " " " " " 12 " " 144 " 155
" " " " " " 13 " " 156 " 165
" " " " " " 14 " " 166 " 174
" " " " " " 15 " " 175 " 186

BOOK 1719

59 55 53 51 50 48 47 45 42 44

2	1	6	5	4	3	2	1	6	5
BOOK 1719									
D. and R. 2 2 1/2									

D. and R. 2 2 1/2

D. and R. 2 2 1/2

38 36 34 33 31 29 28 26 24 23

4	3	2	1	6	5	4	3	2	1	9	6
BOOK 1719											
D. and R. 2 2 1/2											
D. and R. 1 1/2											
24 1 4 1 8											
25 7 2 3 0											
36 1 0 3 1 3 2 3 0											
1 9 6 5 4											
D. and R. 2 2 1/2											
D. and R. 1 1/2											

BOOK

D. and R. 2 2 1/2

D. and R. 2 2 1/2

D. and R. 1 1/2

11 " " 132 " 143
 12 " " 144 " 155
 13 " " 156 " 165
 14 " " 166 " 174

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BOOK 1719
Preliminary Oaths of Assistants.

We, Frank C. Kibbey, John Moorhead
and J. J. Hollowell, & S. Marshall
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 2^d Standard
Parallel S. through Ranges one to fifteen
inclusive and the sections and sub-di-
visions of Tp. 7 S. R. 11 W. & 8 S. R. 12 & 13
Tp. 9 S. R. 12 & 13 W. & Tp. 10 S. R. 12 W.

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

Frank Kibbey Chainman.

John Moorhead Chainman.

J. J. Hollowell Chainman.

S. Marshall Chainman.

Subscribed and sworn before me, this first

day of April 1893

Lewis Wolfley
Notary Public.

We, A. S. Trippel, H. H. Wolfley, Dennis Madigan, Frank Madigan, J. J. Hollowell, G. Marshall, W. H. Moore

do solemnly swear that we will well and truly perform the duties of Marshal, Surveyor &

Measurer

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 2nd

Standard Parallel to the 9th & 10th S. and
fifteen including our two subdivisions
Subdivisions of T^{ps} 7 S. R. 12 W. & T^{ps} 8 S.
R. 12-13 & 14 W. & T^{ps} 9 S. R. 12 & 13 W.
and T^{ps} 10 S. R. 12 W.

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

A. S. Trippel
G. Marshall
J. J. Hollowell
H. H. Wolfley
W. H. Moore
Frank Madigan

Dennis Madigan

Subscribed and sworn to before me this first

day of April 1893

Jesse Waffery
Notary Public.

18
I
No. John Sullivan

BOOK 1719

do solemnly swear that we will well and truly perform the duties of, *Assessor and*
Chairman

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.....

2^d Stand S. + W. 3^d Guide Meridian
Extremities + Sub. Divisions of Tp-8+9 S.

Rs. 12-13 + 14 W. and Tp. 10 S. R. 12 W.
as per Contract #26. Lewis & Moley U.S. Geol.
of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

John Sullivan

Subscribed and sworn to before me this.....

day of *May 1st* 1893

Lewis Moley
Notary Public.

We, Amiceto Soracho

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

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 Sub Divisions of Tps 8 S. R. 12 & 13 & Tps 9 S. R. 12 & 13 W. & Extensions of Tps 10 S. R. 12 W. & Sub Divisions of Same also S. Bdy of Tp. 8 S. R. 12 W. of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

Amiceto Soracho ^{his}

Witness Frank Madigan

Subscribed and sworn to before me this

day of May 13th 1893

Sevin Nolley
Notary Public.

Field Notes
of the
Survey of the
2nd Standard Parallel S.
Through Rs. 1 E. and
1 to 15 West inclusive also
Principal Guide Meridian
Through Tps. 10. South.
Gila and Salt River
Base and Meridian
In the Territory of Arizona
as surveyed by
Lewis Wolfley
U. S. Deputy Surveyor

Under Contract No. 25
Dated Jan'y 16-1893

Survey commenced April 2nd 93
" completed May 8th 93

1E

Survey commenced
on April 2nd 1893 with
a Young And Sons Light
Mountain Transit:

Before commencing the
survey I tested my
Instrument by taking
an observation on the
sun. in Lat $32^{\circ} 35'$ and
variation $13^{\circ} 15' E$. and
found my Instrument
to be in perfect adjust-
ment. See Book 3 page 187.

As the cor. to Tps. 9 and 10
South is in an unsettled
and rough country and
the nearest monument
I could hear of was the
S. E. cor. to Tps. 10 & 11. S. R.

1. E. and 1 W. in an Indian Village called "Caslon" and on arriving there they could only point out where it had been but half a mile East I find the remains of 1/4 S. C. and a marked stone.

I continue East without finding any Sec. Cor. until I arrive at the Stand. Cor. to Secs 33 + 34. where I find the remains of a stone and mound of small stones and a mile + a half further East I find the remains of every 1/4 Stand. Cor. but no. Stand. Sec. Cor. except the one to Secs 33 and 34.

Retrace and Re-establish 2. Stand.

chain's I return to that corr. and re-establish it by setting a malpais stone 16" x 6" x 12" in the ground for stand. corr. to Recs 33+34 marked S. b. on N. with 3 notches on E. + W. faces and raised a mound of stone 1 1/2 ft. high 2 ft. base alongside, Pits infracticable

West on S. bdy. of Sec. 33
 Pd $13^{\circ}15' E$.

Enter rolling ridges of rough malpais rock
 N and S

40.00 I find faint traces of old stand. 1/4 Sec. com on line S

Parallel p. Through. R. 1. East

Chains therefore re-establish the corner by setting a Malpais stone $12 \times 12 \times 8$ 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 $1 1/2$ ft. high 2 ft. base alongside.

Site impracticable

80.00 I find no signs of old stand corner to Secs. 32 and 33. I

re-establish the cor. by setting a post 4 ft. long 4 ins. square with marked stone 12 ins in the ground for stand.

corner to Secs. 32 and 33. marked S. C. T 10. S. R. E. on N.

S 33. on E. end

S 32. on W. faces with 4 notches

Retrace and Re-establish 2nd/₁₁ Stand.

Chanis on E. and 2 notches on
 W. faces and raised a
 mound of stone $1\frac{1}{2}$ ft.
 high 2 ft. base around foot
 Leave Malpais & enter Mesa
 Land mountainous rocks
 Soil worthless

Went on S. side of Sec. 32
 N $13^{\circ} 15' E$.

Over nearly level mesa

40.20 I find faint traces of
 of Stand. 114 Sec. Cor. on line
 I then for re-establish the
 cor. by setting a malpais
 stone $18 \times 14 \times 8$ vis. 12 vis
 in the ground for Stand.
 114 Sec. Cor. marked S. C. 114 on

Parallel S. Through. R. 1. East

Chamie N. face, and raised a mound of stone $1\frac{1}{2}$ ft. high 2 ft. base alongside

Pits impracticable

80.20 No signs of old stand. lev. to Sec. 31 and 32. I therefore reestablish the lev. by setting a post 4 ft. long 4 ins.

square with marked stone 12 ins. in the ground for stand. lev. to Sec. 31, 32

marked

S. 6. T 10. S. R 1 E. on N

S 32 on E. End

S 31. on W. faces with 1 notch on W. and 5 notches on E. faces

aug pits $18 \times 18 \times 12$ ins. N. E. W. of post $5\frac{1}{2}$ ft. dist. and raised a mound of earth 2

Retrace and Re-establish 2nd Stand
 Skins ft. high 4 1/2 ft. base around
 frost
 Land level mesa
 Soil 1 1/2 rate
 Scattering mesquite brush

Work on S body of Sec 31
 Hd 13° 15' E

Over level land

39.60 Enter Malpais

40.10 I find faint traces of
 the old stand. 1/4 Sec. on
 on line I therefore re-estab-
 lish the cor. by setting
 a malpais stone 20 x 16 x
 10 ins. 14 ins. in the
 ground for stand 1/4 Sec
 or marked S.E. 1/4 on N face

Parallel S. Through R 1. East

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

Pits impracticable

44.50 Leave Malpais and enter level mesa

80.15 No signs of old ^{stone} Cor. to Tps. 10 + 11 S. R. 1 E. and 1 W. S. therefore re-establish the Cor. by setting a post $4\frac{1}{2}$ ft long 4 in square with marked stone 12 in. in the ground for ^{stone} Cor. to Tps. 10 + 11 S. R. 1 E. + 1 W. marked sb.

T 10. S. S. 31. on N. E.

R 1. E. S 6. on S. E.

T 11. S. S 1. on SW End

R 1. W. S 36. on N. W. faces with 6 notches on N. S. E. + W. faces

Retrace and Re-establish 2nd Stand.

Chambers dug pits 24x15x12 ins
 lengthwise on each line
 N. D. E. + W. of foot 6 ft. dist
 and raised a mound
 of earth 2 1/2 ft. high 5 ft.
 base around foot
 Land level except 5 chs
 Soil 1st rate
 scattering greasewood brush

Parallel. I. Through R. 1. East

In the Indian Village
 of Castelon. the Indians all
 said that the Standard had
 been run in from the East
 and that then was us.
 North line. They turned South
 and I run North one mile
 finding no lev's I returned
 and run South 1 mile
 I found us 14 cor. but at
 78.75. chs. + 1 ch. E. I found
 remains of red of stone
 also a stone with 5 notches
 on one side and 1 notch on
 the other and H. L. N. 410° E.
 I find a Palo Verde
 marked B. T. T. 11. S. R. 1. E.
 16. I re-establish the lev-
 ey setting the stone 10 x 5 x 6 in.

9

Retrace and Re-establish Principal

6 Charms. 6 ins. in the ground for
 Cor. to Secs. 1, 6, 7 + 12.
 marked with 1 notch on
 N and 5 notches on S edges
 and raised a mound
 of stone 1 1/2 ft. high 2 ft.
 base along side

Pits impracticable
 Thence I run
 N 0° 43' W on a true line
 on Principal Meridian
 bet Secs 1 and 6

3
 4

Qa 13° 15' E

40.00 Re-established this Corley
 setting a malpais Stone
 12 x 10 x 5 ins. 5 ins. in the
 ground for 1/4 Sec. cor
 marked 1/4 on W face, and
 raised a mound of stone

Meridian Through Tps. 11. 2

shamsi 1 1/2 ft. high 2 ft base alongside
 Pits unpracticable

78.75 Intersect the cor. to Tps. 10+11
 South Rs. 1 E + 1 W just re-established
 by me.

Land level

Soil 2nd rate

Scattering mesquite wood
 April 2/93

From the cor. to Tps. 10+11 S.
 Rs. 1 E and 1 W. as hereinbefore
 described

Iron

North bet. Secs 31 and 36

Pa. 13° 15' E.

18.00 Pass Indian houses about
 1 ch. West of line

Retrace and Re-establish.

C Chains

21.00 Enter of grasswood brush

40.00 Re-establish this cor. by setting a post 3 ft. long 3 ins square with marked stone 12 ins. in the ground for $\frac{1}{4}$ Sec cor. marked $\frac{1}{4}$ P. on W. face, dug pits $18 \times 15 \times 12$ ins. N and S. of post $5\frac{1}{2}$ ft. dist. and raised a mound of earth $1\frac{1}{2}$ ft. high $5\frac{1}{2}$ ft. base around post

65.50 Trail to NW + SE.

80.00 Re-establish the cor. by setting a Malpais stone $16 \times 10 \times 8$ ins. 12 ins. in the ground for cor. to Secs 25-30, 31 and 36 marked with notch on S. and 5

Principal Meridian Through. This 10. A.
 Chanis Notches on N. edges and
 raised a mound of stone
 1 1/2 ft. high 2 ft. base alongside
 Pits impracticable
 No signs of old lev.
 Land gradually ascending
 Soil 1st rate
 Scattering Mesquites and
 greasewood brush

North lect. Secs. 25 and 30
 Pa 13° 15' E.

Continue to ascend gradually.
 40.00 Set a post 3 ft long 3 ins
 square with marked
 stone 12 ins. in the ground
 for 1/4 Sec. cr. marked 140
 on W. face, dig pits 15x15x12

Retrace and Re-establish Principal

- Chain vis N and S. of post $5\frac{1}{2}$ ft.
 dist. and raised a mound
 of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft.
 base around post
 No signs of old bar
- 56.00 Wash 40 lks wide course East
- 67.00 Trail by Easterly and Westerly
- 80.00 Set a post 4 ft. long 4
 vis square with marked
 stone 12 vis. in the ground
 for cor to Secs. 19, 24, 25 & 30
 marked
- 3
 4
- S 10. S. 19. on N. E.
 R. E. 30. on D. E.
 R. W. 25. on D. W. end
 S 24. on N. W. faces with
 2 notches on S and 4 notches
 on N. edges. aug pits $1\frac{1}{2} \times 1\frac{1}{2}$
 12 vis. in each Sec $5\frac{1}{2}$ ft. dist

Meridian Through Tps. 10. 0.

Chains and raised a mound of
 earth 2 ft. high $4\frac{1}{2}$ ft.
 large around post no. signs
 of red corr.
 Land level mesa

Soil 1st rate

Scattering Mesquite and
 grasswood brush

North Cor. Secs. 19 and 24
 Pa. $12^{\circ}36'E$.

Ascending gradually

40.00 Set a post 3 ft. long 3 ins
 square with marked stone
 12 ins. in the ground for $\frac{1}{4}$
 Sec. cor. marked 14 on W
 face, dug pits $15 \times 15 \times 12$ ins
 N and E of post $5\frac{1}{2}$ ft. dist.
 and raised a mound of

Retrace and Re-establish Principal

Chains each $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
around post. no signs of old corr

75.00 Enter Malpais and
ascend more rapidly

80.00 Set a Malpais stone
 $17 \times 15 \times 8$ in. 11 in. in the
ground for cor to Secs

13, 18, 19 & 24 marked with
3 notches on N and S. edges
and raised a mound of
stone $1\frac{1}{2}$ ft. high 2 ft. base
alongside

Pits impracticable
no signs of old corr.

Land ascending

Soil 1st and 2nd rate

Scattering Mesquite brush

Meridian Through. Tpo. 10 S.

Chains North bet. Secs 13 + 18
 79 120 36' E.

ascending

13.00 Top of ascent and over
 broken and rolling
 country

40.00 Set a malpais stone 18x10
 x 5 ins. 12 ins. in the ground
 for 1/4 Sec. cor. marked 1/4
 on W. face, and raised a
 mound of stone 1 1/2 ft. high
 2 ft. base alongside

Pits impracticable
 no signs of old leon

and continue to ascend
 over rolling ground

72.50 Top and descend abruptly

75.00 Wash 200 yds wide course
 Easterly and ascend

Retrace and Re-establish Principal

Chains

\$5.00 Set a stone $20 \times 12 \times 4$ ins
 14 ins. in the ground
 for corr. to Secs. 7, 12, 13 & 18
 marked with 4 notches
 on S. and 2 notches on N
 edge. and raised a
 mound of stone $1\frac{1}{2}$ ft.
 high 2 ft. base alongside
 Pito impracticable
 no signs of old Cor.
 Land mountainous rocks
 Soil 3rd rate
 Scattering mesquite brush

North leaf Secs. 7 and 12
 Va $12^{\circ} 36' E$.
 along west slopes rolling and

Meridian Through Tps. 10 P

Chains rocky ground

40.00 Set a Malpais stone 24x
24x 18 ins. 18 ins. in the
ground for 1/4 Sec. cor.

marked 1/4 on W. face, and
raised a mound of stone
1 1/2 ft. high 2 ft. base
alongside Rts. impracticable
No signs of old cor

40.00 Wash 20 fks. wide course S.E.

80.00 Set a post 4 ft. long 4 ins
square with marked stone
12 ins. in the ground for
cor. to Sec. 16. 7+12 marked
T10. S. 6. on N.E.

R1. E. S. 7. on S.E.

R1. W. S. 12. on S.W. End

S1. on N.W. faces with 5 notches
on S. and 1 notch on N. edge

Retrace and Re-establish Principal

1. Chain dug pits $18 \times 18 \times 12$ ins
 in each sec $5\frac{1}{2}$ ft dist
 and raised a mound of
 earth 2 ft. high $4\frac{1}{2}$ ft base
 around each
 No signs of old cor
 Land rough and rolling
 Soil $3\frac{1}{4}$ rate
 Scattering Palo Verde bush
-

3

4

North bet Secs. 1 and 6
 Va $12^{\circ} 36' E.$

- 37.00 Foot of malpais and
 ascend rapidly
 40.00 Set a malpais stone $18 \times 16 \times$
 12 ins, 12 ins. in the ground
 for 14 sec. cor. marked
 14 on N. face and raised a

Meridian Through Tps. 10 R.

Main mound of stone 1 1/2 ft. high
2 ft. base alongside

Pits impracticable
No signs of old lev.

45.00 Top of Malpais ridge
lev E to W. and across top

70.00 Descend

80.00 Set a post 4 1/2 ft. long
4 ins. square with marked
stone 12 ins. in the ground
for ^{change} lev. to Tps. 9 + 10 S. R.

1 E. and 1 W. marked S. C.
T 9 S. 31. on N. E.

R 1 E. 36. on S. E.

Tp. 10 S. 1. on S. W. End

R 1. W. S. 36. on N. W. faces
with 6 notches on N. E. S. W.
faces and raised a mound
of stone 1 1/2 ft. high 2 ft. base

Retrace and Re-establish Principal

1. Charis around fresh
 no signs of old bar
 From which
 a Palo Verde 8 ins. diam
 bers. N. 75° E. 20 lks. dist
 marked S. G. T. R. 1. E. 1
 31. B. T
 a Palo Verde 9 ins. in diam
 bers. $S 85^{\circ}$ E. 45 lks. dist. marked
 S. G. T. R. 1. E. 1. B. T.
- 3 Land mountainous 80 lks
 4 Soil poor
 Thick cacta and scattering Palo Verde

I took an observation on the
 Sun and found the latitude
 to be $32^{\circ} 35'$ and the variation
 $13^{\circ} 30'$ E. and my instrument
 in perfect adjustment. *Sie page 187*
 April 3-1843

Meridian Through. Tps. 100.

Chain

General Description

Three miles of the foregoing line the soil is 1st rate the remainder is worthless.

No monuments or signs could be found along the line

2nd Standard Parallel South

Chassis From the Standard lev-
to Tps. 9th and 10th South R. 18th + 11th
just described

Sum

Wash on S. vdy. of Sec. 36

φ $13^{\circ} 30' E.$

ascending over rough Neulpaais
rock

40.00 Set a Neulpaais stone $16 \times 12 \times$
 6 ins. 11 ins. in the ground
for stand. $1/4$ Sec. C. marked
S. E. $1/4$ on N. face, and raised
a mound of stone $1 \frac{1}{2}$ ft. high
2 ft. base around fresh

Pite impracticable

60.00 Top of slope and descend
abruptly

66.00 Foot of slope

69.75 Wash 50 lbs. wide course S

Through Range 1 West

Chains

- 71.50 Ascend
- 80.00 Set a flint pair stone 15x10x4
 ins. 12 ins. in the ground for
 stand. lev. to Sec 35 + 36
 marked S. 6. with 1 notch on
 E. and 5 notches on W. faces
 and raised a mound
 of stone 1 1/2 ft. high 2 ft. base
 alongside
- Pats impracticable
- Land Mountainous rocks
- Soil 3rd rate
- Scattering Pals rinde brush

West on South vdy. of Sec. 35 -
 N 13° 30' E.

Ascending

2nd Standard Parallel South

Marias

- 35.00 Top of ridge by N. side,
about 800 ft. high + descend
- 40.00 Set a Malpais stone 15x10x
5 ins. 12 ins. in the ground
for Stand. 14 Sec. Cor. marked
O. C. 14 on N. face and
raised a mound of stone
1 1/2 ft. high 2 ft. wide
alongside. Pets impracticable
- 57.00 Stone water Tank 50 lbs
South and little but splendid
water
- Continue over rough rolling
Malpais ridges bearing N. S
300 to 400 ft. high
- 80.00 Set a Malpais stone 24x20x10
ins. 16 ins. in the ground
for Stand. Cor. to Sec 34 & 35-

Through. Range. 12 West

Chains marked S. 6th with 2 notches
on E. and 4 notches on W. faces
and raised a mound of
stone 1 1/2 ft high 2 ft. ledge
alongside

Pits infracticable
Land mountainous rocks
Soil 3rd rate
Scattering Pals under leacte

West on S. vdy. of Sec. 34
19913030'E.

Ascending gradually

40.00 Set a Nelson's stone 15 x 12 x 5
in. 14 in. in the ground. for
Stand. 1/4 Sec. cor. marked S. 1/4 on
N. face, and raised a mound

2nd Standard Parallel South

Ch chains of stone 1 1/2 ft. high 2 ft. base
alongside

Pits impracticable
Top of gradual ascend and
descend

70.00 Foot of gradual descent
and cross wash 20 ft wide
course S. E. and ascend abruptly

80.00 Set a Malpais stone 16x12x6
ins. 11 ins. in the ground
for Stand. Cor. to Sec. 33+34

3
4 marked S. E. or N. with
3 notches on E and W. faces
and raised a mound of
stone 1 1/2 ft. high 2 ft. base
alongside

Pits impracticable
Land Monntaneous 80 chs
Soil poor

BOOK 1719

Through Range 1 West

chain Scattering Pals verde and loote
April 4/93

West on S. bdy. of Sec 33
9a 13° 30' E.

ascending

- 36.00 Top of ridge 700 ft. high
bet N and S. and descend
- 40.00 Set a Malpais stone 16x12x5
ins. 11 ins. in the ground
for stand. 14 Sec. cor. marked
S. C. 114. on N. face and raised
a mound of stone 11/2 ft.
high 2 ft. base alongside
Pits impracticable
Water tank about 1 mile SW
- 80.00 Set a Malpais stone 16x12x5
ins. 11 ins. in the ground for

2nd Standard Parallel South

Charris Stand loc. to Secs. 32 and 33
 marked S.E. on N with
 4 notches on E. and 2
 notches on W. faces and
 raised a mound of stone
 1 1/2 ft. high 2 ft. base
 along side

Pits impracticable

Land mountainous 80%

Soil 30% rate

Scattering Pils verde + bacte

West on S. bdy. of Sec. 32
 N 12° 30' E.

Descending

9.00 Foot of slope
 35.00 Ascend abruptly
 40.00 Set a Malpais Stone 20x18x6

Through Range 1 west

chain 14 ins in the ground
for Stand. 14 Sec. cor. marked.

D.B. 1/4 on N. face, and raised
a mound of stone 1 1/2 ft. high
2 ft. base alongside

Pits infracticable

50.00 Top of ridge bis N and S

55.50 Foot of ridge

Water tank 1/2 mile North

58.00 Ascend rapidly

80.00 Set a Malpais Stone 24 x 16 x 12
ins 16 ins. in the ground for
Stand. Cor. to Secs 31 & 32

marked D.B. on N. with 5
notches on E. and 1 notch on W.
face and raised a mound
of stone 1 1/2 ft. high 2 ft. base
alongside

Pits infracticable

2nd Stand and Parallel South

Chamie Land Mountainous rocks
 Soil 4th rate
 Scattering Palo Verde and Lact.

West on S. vdy. of Sec 31
 Wa 12° 30' E

ascending

9.00 Top of ridge 600 ft. high
 bet. N and S

3 30.00 Descend abruptly

4 40.00 A Neulhaus Boulder in place
 4x3x2 ft. above ground which
 I mark with a cross (+) at
 exact cor. point and 1/4 lb on
 N. face. for Stand. 1/4 Sec. cor
 and raised a mound of stone
 1 1/2 ft. high 2 ft. base along side
 Pits impracticable

Through Range 1 West

Chen's

46.00 Wash course N.W. end along N.E. slopes

64.00 Foot of slopes

76.00 Wash 40 yds. wide course North.

80.00 Set a post 4 1/2 ft. long 4 ins. square
with marked stone 12 ins. in
the ground for stand. Cor. to. Pts
9. S. Rs. 1 + 2. W. marked

S. 6. T. 9. S. on N

R. 1. W. 31. on E. end

R. 2. W. 36 on W. faces with 6
notches on N. E. W. faces and
raised a mound of stone 1 1/2 ft
high 2 ft. base along side

Pats impracticable

Land mountainous to chs

Soil 4th rate

Scattered Pals Verde + cacti

2nd Standard Parallel South

9.00 *Cherino* From the Stand. Cor. to Top.
9. S. Co. 1st and 2nd W just
described

From

Wash on S. vdy. of Sec 36
T₇N 12° 36' E.

10.00 Wash course Northerly

40.00 a Boulder in place 4x3x
2 ft. above ground which I
mark with a cross (+) at
exact cor point and S. 6 1/4
on N. face for 1/4 Stand. Cor
and raised a mound of
stone 1 1/2 ft. high 2 ft. base
alongside and ascend

Pitz impracticable

76.00 Top of ridge 700 ft. high
and descend rapidly

80.00 Set a malpais stone 18x16x5-

Through Range 2 West

~~Acacia~~ vis 12 vis. in the ground
 for Stand. Cor. to Secs. 35 and 36
 marked S. E. on N. with 1
 notch on E. and 5 notches
 on W. faces, and raised
 a mound of stone 1 1/2 ft. high
 2 ft. base alongside

Pits intractable
 Land Mountainous rocks
 Soil 4th rate
 Scattering Mesquite and
 Palo Verde.

April 5th 1893

West on S. vdy. of Sec 35
 rd 13° 30' E.

Descending

1.20 Wash course N and ascend.

2nd Standard. Parallel South

Ch. Chains

6.50 Top of ridge 400 ft. high
to N. End and descend

9.00 Descend abruptly

40.00 A Boulder in place 6x4x1
ft. above ground which I
mark with a cross (+) at
exact cor. point and S. 6 1/4
on N. face for Stand. 1/4 Sec.
cor. and raised a mound
of stone 1 1/2 ft. high 2 ft. base
along side

Cuts intractable

48.00 Wash 30 ft. wide course
North and ascend rapidly80.00 A Boulder in place 4x3x2
ft. above ground which I
mark with a cross (+) at
exact cor. point and S. on N

Through Range 2 west

drains with 2 notches on E. and 4
notches on W faces for Stand.
lev. to Secs 34 and 35. and
raised a mound of stone $1\frac{1}{2}$
ft. high 2 ft. base alongside

Pits impracticable

Land unmountainous 80 chs

Soil 4th/₁₁ rate

Scattering greasewood and cacti

West on E. bdy. of Sec. 34
Pa $13^{\circ} 35' E.$

and continued rapid ascent

3.00 Foot of rocky bluff 50 ft. high
and ascend

4.00 Top of bluff and descend

7.00 Top of lower bluff 40 ft. high
and continue descent

2nd Standard Parallel South

Chains

7.25 Foot of bluff and descend rapidly

40.00 Set a Malpais stone 16x12x
4 ins. 12 ins. in the ground
for Stand. 14 Sec. Cor. marked
140 b. on N. face, and raised
a mound of stone 1 1/2 ft. high
2 ft. base alongside
Pits impracticable

3

44.00 Foot of Mountain and
cross wash 25 ft. wide
course W. and ascend very
gradually

56.00 Leave wash + ascend

66.00 Top of rocky ridge base
N and S. and descend

74.00 Foot of ridge

80.00 Set a Limestone 20x10x6 ins

Through Range 2 West

claims 14 ins. in the ground for
 stand. lev. to Secs. 33rd and 34th
 marked L.C. on N. with 3
 notches on E & W. faces and
 raised a mound of stone
 1/2 ft. high 2 ft. base
 alongside

Site unfracturable
 Land Mountainous rocks
 Soil 4th rate
 Scattering Palo Verde and
 grasswood brush

West on S. bdy of Sec 33
 N 13° 30' E

Over broken ground

3.00 Wash 28 lks wide course N.W.
 14.00 Wash 36 lks wide course N.W.

2nd Standard Parallel South

Chains

40.00 Set a Malpais stone 24 x 12
x 10 ins. 18 ins. in the ground
for Stand. 14 Sec. 07. Marked
S. C. 14. on N. face, and raised
a mound of stone 1 1/2 ft. high
2 ft. base along side

Pits infracticable

64.00 Wash 31 lbs. pipe course N.W

70.00 In. S. Elbow of creek

80.00 Set a Malpais stone 20 x 14 x 8
ins. 14 ins. in the ground
for Stand. 10. to Sec. 02 + 33
Marked S. C. on N. with
4 notches on E. and 2 notches
on W. faces. and raised a
mound of stone 1 1/2 ft. high
2 ft. base along side

Pits infracticable

Through Range 2 West

Acres

Ground which

a Palo Verde 6 ins. diam br

$N3^{\circ}E$. 40 lks. dist. marked

S. C. T. 9. S. 133 B. T.

Land broken and rolling
Soil 4th rate

Scattering grasswood + lacte
April 6th 1893

West on S. bdy. of Sec 32

$N913^{\circ}30'E$

13.50 Wash course N.W.

18.25 Wagon road from Gila
Creek to Indian Villages.

(Muey Vara) is about 3 miles
S. E. and good wells

18.75 Mound of stone + stone marked
S. C. to mark crossing of stand.

2nd Standard Parallel South

Chains

40.00 Set a Malpais stone 18 x 10 x 8
 ins. 12 ins. in the ground
 for Stand. 14 Sec. Cor. marked
 S.B. 14 on N. face, and raised
 a mound of stone 1 1/2 ft. high
 2 ft. base alongside
 Pits impracticable

Ascending gradually over
 rolling and gravelly ground

3 80.00 Set a Malpais stone 28 x 14 x
 8 ins. 14 ins. in the ground
 for Stand. Cor. to Secs 31 + 32
 marked S.B. on N. with 5
 notches on E. and 1 notch
 on W. faces, and raised a
 mound of stone 1 1/2 ft. high
 2 ft. base alongside
 Pits impracticable

Through Range 2 West

Linnis

Land rolling

Soil 3rd rate

Scattering cacti.

West on S. bdy. of Sec 31

W 13° 33' E

3.50 Wash 35 lks. wide course N

8.50 Trail to Indian Village
of Salcula which is about
2 miles S. E. and good water
wells30.00 Top of ridge bet N.W. & S.E.
and descend40.00 Set a Limestone 16x12x6 ins
12 ins. in the ground for
Stand. 1/4 Sec. Cor. marked
S.E. 1/4 on N. face, and raised
a mound of stone 1 1/2 ft. high

2nd Standard Parallel South

- Chassis 2 ft. base alongside
Pits impracticable
- 47.00 Wash 30 lks. wide course N.W.
and ascend
- 66.00 Top of ridge 500 ft. high base
N.W. + S.E. and descend
- 73.00 Wash 30 lks. wide course N.W.
- 80.00 Set a Limestone 24 x 12 x 10
ins. 18 ins. in the ground
for Stand. lev. to Top. of S.
Ro. 2nd 3. N. marked
S. on N. with 6 notches
on N. E. + W. faces and
raised a mound of stone
1 1/2 ft. high 2 ft. base
alongside
Pits impracticable
Land mountainous & the
Soil 4th rate

Through Range 2 West

Chains Scattering Pals Verde And
Lacti

I took an observation by
the sun at noon and found
the latitude to be $32^{\circ}35'$ and
the variation $13^{\circ}33'E$. and
found my Instrument
to be in perfect adjust-
ment. See page 187
April 7th / 1893

2nd Standard Parallel South

(C) chains From the Stand. Cor.
to Twp. 9. S. R. 2nd and 3. W
just established
I run

West on S. ldy. of Sec 36
T^h 13° 33' E.

5.00 Trail bet. Nth and O. to Sacilla

14.00 Ascend

25.25 Top of ridge bet. N.W. & S.E.
570 ft high and descend

3 40.00 a Limestone boulder in
place 5x4x2 ft. above
ground which I mark
with a cross (+) at exact
cor. point and S. 6 1/4 on N face
for Stand. 1/4 Sec. cor. and
raised a mound of stone 1 1/2
high 2 ft. base alongside
Pits impracticable

Through Range 3 West

Main Cor. on S.W. slope of ridge

H7.00 Foot of slope

H9.00 Wash Cor. lks wide course N.W.
and enter slightly rolling mesa

80.00 Set a Limestone 20x6x5 in
14 ins. in the ground for stand
Cor. to Sec 35 and 36. marked
S.C. with 1 notch on E and
5 notches on W. faces and
raised a mound of stone
1 1/2 ft. high 2 ft. base alongside
Path impracticable

Land mountainous 80chs

Soil 4th rate

Scattering Palo Verde & Cacti
and grasswood on mesa

2nd Standard ^{BOOK 1719} Parallel South

Chains West on S. bdy. of Sec. 35

Ga 13° 33' E.

Over slightly rolling mesa

40.00 Set a Malpais stone 30 x 8 x
8 ins. 20 ins. in the ground
for stand. 14 Sec. cor. marked
D. C. 14. on N. face, and raised
a mound of stone 1 1/2 ft
high 2 ft. base alongside
Pits impracticable

49.00 Wash 20 lks. wide course N

59.00 Wash 75 lks. wide course N. E.

and ascend gradually

80.00 Set a Malpais stone 20 x 10 x 4
ins 14 ins. in the ground
for stand. Cor. to Secs. 34 + 35
marked S. C. on N. with 2
notches on E. and 4 notches
on W. faces and raised a

Through Range 3 west

chain mound of stone $1\frac{1}{2}$ ft. high
2 ft. base alongside

Pits unpracticable

Land mountainous rocks

Soil worthless

Scattering greasewood brush

West on E. side of Sec 34

$99^{\circ} 33' E.$

Ascend gradually

2.00 Wash 25. lks. wide course

S. E. and ascend rapidly

16.50 Top of ridge 400 ft. high

less N. W. + S. E. and descend

rapidly

40.00 Set a Limestone $14 \times 12 \times 10$

ins 9 ins. in the ground

for Stand. $\frac{1}{4}$ Sec. Corn marked

2nd Standard Parallel South

Chain S.C. 114 on N. face, and
 raised a mound of earth
 1 1/2 ft. high 2 ft. base alongside
 Pits infradicable

And over rolling and rocky mesa

48.00 Wash 50 lbs. wide Course N

80.00 Set a Limestone 14x10x6 ins

9 ins. in the ground for
 stand, lev. to Secs 33 & 34
 marked S.C. on N. with 3
 notches on E. and W. faces

and raised a mound of
 stone 1 1/2 ft. high 2 ft. base
 alongside

Pits infradicable
 Land unmitteous rocks

Soil worthless

Scattering Palo Verde and Cacti

Through Range 9 West

Chain West on S. vdy. of Sec 33

Pl 13° 33' E.

Continue over rolling mesa

26.00 Wash 1 ch. wide course N.

and ascend rapidly

40.00 Set a Limestone 14x10x6 ins

9 ins. in the ground for stand.

1/4 Sec. cor. marked A.B. 1/4 on N

face, and raised a mound

of stone 1 1/2 ft. high 2 ft. base

alongside

Pits impracticable

50.00 Top of ridge cor N.E. & S.W.

300 ft. high and descend

68.00 Wash 30 lbs. wide course N.W

75.50 Ascend

80.00 Set a Limestone 18x12x5 ins

12 ins. in the ground for

stand. cor. to Secs 32 & 33

2nd Standard Parallel South

Chains marked S. 6. on N. with
 4 notches on E. and 2 notches
 on W. faces and raised a
 mound of stone $1\frac{1}{2}$ ft. high
 2 ft. base alongside
 Pits intractable
 Land mountainous rocks
 Soil worthless
 Scattering Pals verde + leacti

West end. bdy. of Sec 32
 D₁ 13° 35' E.

Continue ascent

5.00 Top of ridge bet N.W. + D.E.
 and descend rapidly

11.00 Foot and along slightly
 rolling ground

40.00 Sera Limestone 14 x 12 x 10 ins

Through Range 3 west

9 ins. in the ground for
 Stand. 14 Sec. cor. marked
 S. 6 1/4 on N. face, and raised
 a mound of stone 1 1/2 ft. high 2
 ft. base alongside

Pits impracticable

80.00 Set a Limestone 14 x 10 x 8 ins
 9 ins. in the ground for Stand.
 Cor. to Secs 3 and 32 marked
 S. 6 on N. with 5 notches on E.
 and 1 notch on W. faces, and
 raised a mound of stone
 1 1/2 ft. high 2 ft. base alongside

Pits impracticable

Land mountainous rocks

Soil worthless

Scattering greasewood + Cacti

2nd Standard Parallel South

- | | |
|--------|---|
| Cherms | West on S. bay. of Dec 31
Ha 93° 33' E. |
| 18.00 | Over rocky rolling mesa
East bank of wash |
| 22.50 | West bank of wash course N.E. |
| 37.00 | Wash 2 1/2 lks. wide course N.E. |
| 40.00 | Set a Limestone 14 x 12 x 8 ins
9 ins. in the ground for
Stand 1/4 Sec. cor. Marked
S.C. on N. face and raised
a mound of stone 1 1/2 ft. high
2 ft. base along side
Pits impracticable
and ascend |
| 63.00 | Ascend rapidly |
| 76.50 | Top of rock bluff 700 ft.
high and descend abruptly |
| 79.75 | Foot of bluff and Ascend |
| 80.00 | Top of Rock ridge where |

Through Range 8 west

Saw a Rock in place 10x 6x 4
 ft. above ground which I
 mark with a cross (+) at
 exact cor. point also S.E.
 with 6 patches on N. E & W
 faces for stand. lev. to Top
 of S. R. 3x 4 west and
 raised a mound of stone
 1 1/2 ft. high 2 ft. base alongside
 Pits impracticable
 Land mountainous & ches
 Soil worthless
 Scattering cacti

2nd Standard Parallel South

Churnis From the Stand. Cor. to
 Tho. G. C. Co. 3rd and 4th just
 established

I run

West on C. bdy. of Sec 36
 98° 13' 33" E.

.26 bluff drops 60 ft. and
 descend over rugged rocks

5.00 Wash 20 lks. wide @ course N
 and ascend

25.00 Top of rock ridge bet N. S
 and descend

38.00 Wash 30 lks wide @ course W
 and ascend

40.00 Set a limestone 16 x 12 x 5 in
 12 ins. in the ground for
 Stand. 1/4 Sec. cor marked
 S. 6 1/4 on N face and raised
 a mound of stone 1 1/2 ft. high

Through Range 4 West

Leave 2 ft. base alongside

Pits impracticable

lev. on top of rock ridge and
base N.E. + S.W. & descend along
S. slopes

2.00 Enter wash 30 lks. wide course
Westerly

2.50 Leave wash course N.E. and
ascend

3.00 Set a limestone $14 \times 12 \times 6$ ins
grs. in the ground for
stand. lev. to sea 35 and 36
marked S.E. on N. with 1
notch on E. and 5 notches on
W. faces and raised a
mound of stone $1\frac{1}{2}$ ft high 2
ft. base alongside

Pits impracticable

Land Monitamos 8 Dchs

2nd Stand. Par. S. Through Range + west

Chemical Soil worthless

Scattering Palo Verde + cacti

West on S. bdy. of Sec 35
 N 13° 33' E

ascend rapidly

5.00 Top of N. end of ridge bet
 N. end S. and descend

12.00 Wash 30 lks. wide course N
 and ascend over rolling
 stony ground

40.00 L. of limestone 24 x 15 x 10
 ins. 18 ins. in the ground
 for stand. 14 sec. or. marked
 S. 6 14 on N. face, and raised
 a mound of stone 11 1/2 ft. ^{high} 2 ft.
 base alongside

Path impracticable