

BOOK 1495

1495

1495

F I E L D N O T E S
OF THE SURVEY OF THE
FOURTH STANDARD PARALLEL SOUTH
THRU RANGES

23, 24, 25, 26, 27, 28, 29, 30,
31 and 32 East.

Gila and Salt River Base and
Meridian,

ARIZONA.

By J. B. McLaughlin, D. S., under
Contract dated June 18, 1883.
Survey commenced October 24, 1883.
Survey completed October 31, 1883.

BOOK 1495

Judex

Range	23 E.	1 to 9
"	24 "	10 " 18
"	25 "	20 " 27
"	26 "	28 " 37
"	27 "	38 " 47
"	28 "	48 " 56
"	29 "	57 " 65
"	30 "	66 " 73
"	31 "	74 " 83
"	32 "	84 " 91

Bet. Ts. 30 & 21 L

31	32	R. 33	23	34	E. 35-	36
1	2	4	5	6	8	
6	5-	R. 4	3	2	1	
31	32	R. 33	24	34	E. 35-	36
10	11	13	14	15	17	
6	5-	R. 4	3	2	1	
31	32	R. 33	25	34	E. 35-	36
19	20	22	23	24	26	
6	5-	R. 4	3	2	1	
31	32	R. 33	26	34	E. 35-	36
28	30	31	33	34	36	
6	5-	R. 4	3	2	1	
31	32	R. 33	27	34	E. 35-	36
38	39	41	42	44	45	
6	5-	R. 4	3	2	1	
31	32	R. 33	28	34	E. 35-	36
48	50	51	52	54	55	
6	5-	R. 4	3	2	1	
31	32	R. 33	29	34	E. 35-	36
57	58	59	61	63	64	
6	5-	R. 4	3	2	1	
31	32	R. 33	30	34	E. 35-	36
66	67	69	70	71	73	
6	5-	R. 4	3	2	1	
31	32	R. 33	31	34	E. 35-	36
74	76	78	79	81	82	
6	5-	R. 4	3	2	1	
31	32	R. 33	32	34	E. 35-	36
84	85	87	89	90	91	
6	5-	4	3	2	<u>Mexico</u>	

1 A BOOK 1493

Preliminary Oaths of Assistants.

We John Woods, Wm Shearer, Charles Read
and August E King

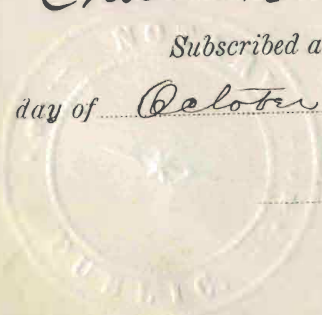
do solemnly swear that we will well and faithfully execute the
duties of Chain Carriers; that we will level the chain over even
and uneven ground, and plumb the tally pins, either by sticking
or dropping the same; that we will report the true distance to
all notable objects, and the true length of all 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 Fourth
Standard Parallel South through Ranges
#25, 24, 25, 26, 27, 28, 29, 30, 31 and 32 East
of the Principal Meridian

Territory of Arizona.

John Woods William Shearer Chainman.
Chas. B. Read August E. King Chainman.

Subscribed and sworn to before me, this 24th
day of October 1883.

Walter B. Neil
Notary Public.



We John R. Thomas and Leonard A. Campbell^B

BOOK 1495

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

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 South Standard Parallel
South through Ranges #23, 24, 25, 26, 27
28, 29, 30, 31, and 32 East of S. & P.
Principal Meridian

Territory of Arizona.

John R. Thomas, Assessor
Leonard A. Campbell, Assessor

Subscribed and sworn to before me this 24th

day of

October

1883

Walter B. Mill

Notary Public.

I Charles Graser do solemnly swear that I
will well and truly perform the duties of Flagman
according to instructions given me and to the best of my
skill and ability.

Charles Graser

Sworn to and subscribed before me this 24th

day of October 1885

Walter B Neil

Notary Public

I Walter B Neil do solemnly swear that I
will well and truly perform the duties of Compassman
according to instructions given me and to the best of
my skill and ability.

Walter B Neil

Sworn to and subscribed before me this

24th day of October 1885.

J. B. McLaughlin
Notary Public

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Survey made with a Patent
Solar Transit nearly
new and in first rate order
made by W. and L. E. Gurley of
Troy New York. This instrument
was tested on the true meridian
at Tucson A. T. October 10th 1883
and found correct and in
perfect adjustment

4th Standard parallel S. thro R. 23 E.

Chain

I begin at the ^{Stand} Cor. to Tps 20
S. R^s 22 and 23 E. which is
a Limestone 10x9 ins firmly
set in the ground marked S. C.
with 6 notches on N. E. and W.
edges and a mound of stone
alongside

Thence I run

East on S. Boundary Sec. 31

Cor. 120 48' E.

2.60 Road bet. N. E. and S. W.

14.50 Road bet. N. 10° W. + S. 10° E.

40.00 Set a Limestone 12x10x10 ins 8
ins. in the ground for Standard
1/4 Sec. Cor. marked S. C. 1/4 on
N. face, dug pits 18x18x12 ins
E. and W. of stone 5 1/2 ft. dia
and raised a mound of earth
1 1/2 ft. high 3 1/2 ft. broad alongside

4th Standard parallel South
 thro Range 23 E. Conk.

Chain

.80.00 Set a Limestone 10x10x7 ins
 7 ins. in the ground for Standard
 Cor. to Sec. 31 and 32 marked
 S. C. with five notches on E. and
 1 notch on W. edges, dug pit
 18x18x12 ins. N. E. and W. of
 stone 5 1/2 ft. dia and raised
 a mound of earth 2 ft. high
 4 1/2 ft. base along side
 Land level
 Soil 3^d and 4th rate
 Mesquite and Outclaw

E. on South bdy, Sec. 32
 Cor. 12048' E.

26.00 Ascend N. slope of hill to S. E.
 32.00 highest point of slope and
 descend
 38.00 Leave foot of slope to S. W.

4th Standard parallel South
through R. 23 E. Cont.

Chowin

40.00

Set a limestone $13 \times 10 \times 9$ ins.
9 ins. in the ground for Standard
 $\frac{1}{4}$ Sec. Cor. marked S. C. $\frac{1}{4}$ on
N. face, dug pits dug pits $18 \times 18 \times 12$
ins. E. and W. of stone $5\frac{1}{2}$ ft
dist. and raised a mound
of Earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft
base alongside

80.00

Repositioned a marked stone 12
ins. in the ground for Standard
Cor. to Secs. 32 + 33 dug pits
 $18 \times 18 \times 12$ ins. N. E. & W. of stone
 $5\frac{1}{2}$ ft. and raised a mound of
earth 2 ft. high $4\frac{1}{2}$ ft. base over
it. In E. pit drove a stone 2 ins.
square 2 ft. long, 12 ins. in the
ground marked

S. C. T. 20 S. R. 23 E. on N.

S. 33 on E. and

S. 32 on W. faces with 4 notches

4th Standard parallel south
through N. 23 E. Cont.

on E. and 2 notches on W. faces
Surface rolling and level
Soil 3rd and 4th rate
Some Cats claw, mesquite and
greasewood

E on South Bdy. Sec. 33

Cor. 12048' E.

- 33.00 Cross road Cor. N. W. and S. E.
41.00 Set a Limestone 10x10x7 ins. 7 ins
in the ground for Standard 1/4 Sec.
Cor. marked S. C. 1/4 on N. face
 dug pit 18x18x12 ins E. and W. of
Ston 5 1/2 ft. dirt, and raised
a mound of earth 1 1/2 ft high
3 1/2 ft. base along side
50.00 Set a Limestone 18x18x12 ins. 12
ins. in the ground for Standard
Cor. to Sec. 33 and 34 marked

4th Standard parallel South
through Range 23 E.

Chains

S. C. with 3 notches on E. and W.
edges, dug pits 18x18x12 ins
N. E. and W. of ston 5 1/2 ft.
dirt and raised a mound
of earth 2 ft. high 4 1/2 ft. long
along side

Land selling

Soil 3rd rate

Dense Mesquite and Cactus

E. on S. Bdy, Sec 34

Cor. 12° 48' E

24.00 Ascend hill bet. N. W. and S. E.

40.00 Ch a granite ston 18x18x12 ins
1 1/2 ins. in the ground for ston
1/4 sec. Cor. marked S. C. 1/4 on N.
face and raised a mound of
ston along side.
Pit impracticable.

4th Standard parallel South
thru. Range 23 E,

Chains

- 47.00 Top of hill br. N. W. and descend
- 64.00 Leave foot of hill br. N. E & S. W.
- 80.00 Set a granite stone 14 x 12 x 12 in
9 in. in the ground for standard
Cor. to Secs 34 and 35 marked
S. C. with 4 notches on E. and
4 notches on W. edges and
raised a mound of stone
alongside. Pit impracticable
Loud broken
Soil stony 4th rate
Dense Mesquit & catsclaw

E. on South Bdy. Sec. 35
Cor. 12° 45' E,

- 27.00 Leave dense Mesquit and
catsclaw and enter valley
br. N. & S.

4th Standard parallel South
thru Range 23 E.

Chains

40.00 Set a Limestone 10 x 10 x 8 ins.
7 ins. in the ground for Standard
1/4 Sec. Cor. marked S. C. 1/4 on
N. face, dug pit 18 x 18 x 12 ins
E. and W. of Stone 5 1/2 ft.
dist and raised a mound
of Earth 1 1/2 ft. high 3 1/2 ft.
base along side.

80.00 Deposited a marked Stone
12 ins in the ground for Standard
Cor. to Secs. 35 and 36 dug
pit 18 x 18 x 12 ins. N. E. and W.
of Cor. 5 1/2 ft. dist. and raised
a mound of earth 2 ft. high
4 1/2 ft. base over it. In E. pit
drew a stake 2 ft. long 2 ins.
square 12 ins. in the ground
marked S. C.
S. C. T. 20 S. R. 23 E. on N.
S. 36 on E. and

4th Standard parallel South
 Cheryl Range 23 E.

S. 35 on W. faces with 1
 notches on E. and 5 notches
 on W. faces

Land level + rolling
 Soil 3^d rate

Grass good
 No timber

E. on S. Bdy Sec. 36

Var 12° 48' E.

14.10 Cross road bet N. E. and S. W.
 40.00 Set a limestone 12 x 9 x 8 ins.
 8 ins in the ground for Standard
 1/4 Sec. Cor. marked S. E. 1/4 on
 N. face, dug pit 18 x 18 x 12 ins
 E. and W. of stone 5 1/2 ft. dist
 and raised a mound of
 earth 1 1/2 ft. high 3 1/2 ft.
 base along side

9.

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4th Standard parallel South
through Range 23 E.

Chain

80.00

Set a post $4\frac{1}{2}$ ft. long 4 in
square with marked stone
12 in. in the ground for stan-
dard Cor. to Tps. 20 S. R^S 23
and 24 E. marked

S. C. T. 20 S. on N,

R 24 E. S. 31 on E. and

R. 23 E. S. 36 on W. faces

with 6 notches on N.E. and W.

faces. dug post $24 \times 18 \times 12$ in

Crosswise on each line N.E.

and W. of post 6 ft. dia

and raised a mound of
earth $2\frac{1}{2}$ ft. high 5 ft. dia
around post

Land slightly rolling

Soil 3^d rate

Grass good

4th Standard parallel South
through Range 24 E,

Choin

It shows the Standard Cor to
Tps 20 S. R^s 23 and 24 E,
just set by me
I run

E. on S. body Sec. 31

Var. 12° 48' E.

13.10 Cross road bet. N, E, and S. W.

40.02 Deposited a marked stone
12 ins. in the ground for
Standard $\frac{1}{4}$ Sec. Cor. dug pit
18 x 18 x 12 ins. E. and W. of
Cor. 5 $\frac{1}{2}$ ft. dia and raised
a mound of earth 1 $\frac{1}{2}$ ft. high
3 $\frac{1}{2}$ ft. bore over it. In E. pit
drew a stake 2 ins. square 2
ft. long 12 ins. in the ground
marked S. C. $\frac{1}{4}$ on N. face

80.00 Deposited a marked stone
12 ins. in the ground for
Standard Cor. to Res 27 and 32

4th Standard parallel South
 thro R. 24 E.

chain

dry pit 18 x 18 x 12 ins. N. E.
 and W. of Cor. 5 1/2 ft. dist
 and raised a mound of
 earth 2 ft. high 4 1/2 ft. base
 over it. In E. pit down a
 stake 2 ins. square 2 ft. long
 12 ins. in the ground marked
 S. C. T. 20 S. R 24 E. on N.
 S. 34 on E. and

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

Land slightly rolling
 Soil 3rd rate
 Grass good

E. on S. Bdy Riv. 32
 Nov. 12048' E.

4th Standard parallel South
through R. 24 E.

Chains

- 40 00 Deposited a marked stone
12 ins. in the ground for Standard
1/4 Sec. Cor. dug pit 18 x 18 x 18
ins. E. and W. of cor 5 1/2 ft.
and raised a mound of earth
1 1/2 ft. high 3 1/2 ft. over it
In E. pit drove a stake 2 ins
square 2 ft. long 12 ins in
the ground marked S. C. 1/4 on
N. face
- 73 00 Cross road bis. N. 60° W. and
S. 60° E.
- 80 00 Set a Limestone 10 x 10 x 8 ins
7 ins. in the ground for Standard
Cor. to Secs 32-33 marked
S. C. with 4 notches on E. and
2 notches on W. edges dug
pit 18 x 18 x 12 ins N. E. and W.
of stone 5 1/2 ft. dia and
and raised a mound of earth

4th Standard parallel South
through R. 24 E.

Chairs

2 ft. high 4 1/2 ft. base alongside
Land rolling + level.
Soil 3rd rate
Good grass

E. on South bdy. Sec. 3 1/2

Cor. 1204 S. E.

40.00 Set a Limestone 13x10x10 ins
9 ins. in the ground for Standard
1/4 Sec. Cor. marked S.C. 1/4 on
N. face and raised a mound
of straw alongside
Pit impracticable

80.00 Set a Limestone 12x10x10 ins
8 ins. in the ground for Standard
Cor. to Sec 33-34 marked S.C.
with 3 notches on E. and W.
edges, dug pits 18x18x12 ins
N.E. and W. of stone 5 1/2 ft. dia.

4th Standard parallel south
through Range 24 E.

Chains

and raised a mound of earth
2 ft. high 4 1/2 ft. base alongside
road rolling & level
Soil 3rd rate
Grass good

Oct. 21 1883

E. on South body Sec 34
Cor. 12048 E.

38.00 Ascend Mountain Ridge
bet. N. W. and S. E.

40.00 Set a Line Stone 16x14x8 in
11 in. in the ground for Standard
1/4 Sec. Co. marked S. C. 1/4 on
N. face and raised a mound
of stone alongside
Pit. impracticable

39.00 Top of mountain ridge bet.

4th Standard Parallel South
through Range 24 E.

Chains

N. W. and S. E. and

descend

80.00

Set a Limestone 16 x 13 x 8 ins
11 ins. in the pond for Standard
Cor. to Secs 34-35 marked
S.C. with 2 notches on E. and
4 notches on W. edges and
raised a mound of stone
alongside. Pits impracticable
Land broken & mountainous
Dirt 4th rate
No pass

E. on South bdy Sec 35

Cor. $12^{\circ} 48' E$

41.00

Leave foot of mountain ridge
bet. N. W. and S. E. and
enter Sulphur Spring Valley

40.00

Set a Limestone 18 x 12 x 6 ins

4th Standard parallel South
through Range 24 E

bores

12 ins. in the front for Standard
1/4 Sec. Cor. marked S. C. 1/4 on
N. face, dug pits 18x18x12 ins
E and W. of Stone 5 1/2 ft.
dist and raised a mound
of earth 1 1/2 ft. high 3 1/2 ft
bore alongside

\$0.00

Set a Flint Stone 16x10x8 ins
11 ins. in the ground for Cor. to
Secs. 35 and 36 marked S. C.
with 1 notch on E, and 5 notches
on W. edges, dug pits 18x18x12 ins
N. E. and W. of Stone 5 1/2 ft. dist
and raised a mound of
Earth 2 ft. high 4 1/2 ft bore
alongside

Land level
Soil 3rd rate
Grass good

4th Standard parallel south
through Range 24 E.

Chairs

E. on South bdy, Sec. 36
Cor. 120 00' E.

40.00 Set a Flint Stone 10x10x5 ins
7 ins. in the ground for standard
1/4 Sec. Cor. marked S. C. 1/4 on
N. face and raised a mound
of stone alongside
its impracticable

80.00 Set a post 4 1/2 ft. long 4 ins.
square with marked stone 12
ins. in the ground for standard
Cor. to Tps 20 S. R² 24 and
25 E. marked
S. C. T. 20 S. on N.

R 25 E, S. 31 on E, and
R 24 E, S. 36 on W. faces, ^{with 6 notches} dug
on N. E & W faces.
Set 24x18x12 ins N. E. and W.
of post cross wise on each line
6 1/2-ft. disk and raised a
mound of earth 2 1/2 ft. high

4th Standard parallel south
through Range 24 E.

5 ft. box around post.
Sand rolling and hard
Soil 3^d rate
Grass good

I carefully examined the
adjustments of my solar
instrument today particularly
the latitude and leveling
apparatus and found
them correct.

4th Standard parallel south
through Ranges 25 E.

Chains

From the Standard Cor. to Tps 20
S. R^s 24 and 25 E. just
set by me

I run

E. on S. bdy. of Sec. 31

Cor. 12°-48' E.

40.00

Set a Flint stone 12 x 10 x 10 ins
8 ins. in the ground for
Standard $\frac{1}{4}$ Sec. Cor. marked
S. C. $\frac{1}{4}$ on N. face. dug pits
18 x 18 x 12 ins E. and W. of
How $\frac{5}{8}$ ft. deep and raised
a mound of earth 1 $\frac{1}{2}$ ft
high $3\frac{1}{2}$ ft. over alongside

80.00

Set a post $4\frac{1}{2}$ ft. long 4 ins
square with marked stone 12
ins. in the ground for Standard
Cor. to Secs. 31 and 32 marked
S. C. T 20 S. R. 25 E. on N
S. 32 on E. and

4^a Standard parallel south
through Range 25 E.

Chains

S. 31 on W. faces with 5 notches
on E. and 1 notch on W. faces
dry pit. 18x18x12 ins N.E. and
W. of post 5 1/2 ft. dist and
raised a mound of earth 2
ft. high 4 1/2 ft. base around post

Land selling

Soil 3^d rate

Gross prod

E. on S. bdy. sec. 32

Cor. 12° 48' E.

40.00 Set a post 3 ft. long 3 ins.

square with marked stone 12
ins. in the ground for standard
1/4 sec. cor. marked S. E. 1/4 S.

on N. face dry pit 18x18x12
ins E. and W. of post 5 1/2 ft
dist and raised a mound

21

4 ft Standard parallel south
through R. 25 E.

Chains

of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft
barr around post

\$1.00 Set a post $4\frac{1}{2}$ ft. long 4 ins
square with marked stone
12 ins. in the ground for
Standard Cor. to Secs 32
and 33 marked

S. C. T. 20 S. R 25 E. on N.
S. 33 on E. and

S. 32 on W. faces with 4
notches on E. and 2 notches on W
faces
~~edges~~ dug pits $18 \times 18 \times 12$ ins

N. E. and W. of post $5\frac{1}{2}$ ft. dist.
and raised a mound of earth
2 ft. high $4\frac{1}{2}$ ft. barr around
post

Sand level and setting
soil 3rd rate
grass good

4th Standard parallel South
through Range 25 E.

Chains

E, on South bdy sec 33
Cor. 120 48 E.

40.00 Set a post 3 ft. long 3 ins.
square with marked stone
12 ins. in the ground for standard
1/4 Sec. cor. marked S.C. 1/4 S. on
N. face, dug pits 18x18x12 ins
E. and W. of post 5 1/2 ft. disk
and raised a mound of earth
1 1/2 ft. high 3 1/2 ft. base around
post

50.00 Set a post 4 1/2 ft. long 4 ins
square with marked stone
12 ins. in the ground for
Standard Cor. to Secs. 33 & 34
marked

S. C. T. 20 S. R. 25^E on N

S. 34 on E, and

S. 33 on W. faces with 3 notches
on E, and W. ^{faces} ~~edges~~, dug pits

4th Standard parallel south
through Range 25 E.

Chairs

18x18x12 ins. N. E. and W
of post 5 1/2 ft. dist and
raised a mound of earth 2 ft
high 4 1/2 ft. base around post
Land level + rolling
Soil 3' rate
Grass good

E. on South bdy Sec. 34

Cor. 12° 48' E.

40.00 Deposited a marked stone
12 ins. in the ground for Standard
1/4 Sec. Cor. dug pit, 18x18x12 ins
E. and W. of cor. 5 1/2 ft. dist
and raised a mound of earth
1 1/2 ft. high 3 1/2 ft. base over it
In E. pit drove a stake 2 ins
square 2 ft. long 12 ins. in the
ground marked S. E. 1/4 on N. face

4th Standard parallel South
through R. 25 E.

chains

30.00

Set a post $4\frac{1}{2}$ ft. long 4 ins
square with marked stone 12
ins in the ground for standard
Cor. to Recs. 34 and 35 marked
S. C. T. 20 S. R. 25 E. on N
S. 35 on E and
S. 34 on W. faces with 2 notches
on E. and 4 notches on W. faces
dug pits $18 \times 18 \times 12$ ins N. E. & W
of post $5\frac{1}{2}$ ft. dist and mound
a mound of earth 2 ft high $4\frac{1}{2}$
ft. base around post
Land slightly rolling soil 30% water
Grass good

E. on South Bdy Recs 35
Cor 12° 48' E

40.00

Deposited a marked stone
12 ins. in the ground for

4th Standard parallel south
through R. 25 E.

Chains

Standard $\frac{1}{4}$ Sec. Cor. dug pits
18x18x12 ins. E. and W. of cor $5\frac{1}{2}$
ft. dist and raised a mound
of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
over it. In E. pit drove a
stake 2 ins. square 2 ft. long
12 ins. in the ground marked
S. C. $\frac{1}{4}$ S. on N. face

\$0.00 Set a post $4\frac{1}{2}$ ft. long 4 ins square
with marked stone 12 ins. in
the ground for Standard Cor
to Secs 35 and 36 marked
S. C. T. 20 S. R 25 E. on N.
S. 36 on E. and
S. 35 on W. faces with 1 notch
on E. and 5 notches on W faces
dug pits 18x18x12 ins. N. E. and W.
of post $5\frac{1}{2}$ ft. dist and raised
a mound of earth 2 ft. high
 $4\frac{1}{2}$ ft. base around post

4th Standard parallel South
through R. 25 E

Chains

Land slightly rolling
Soil 3rd rate
Grass good

E. on South bdy Sec. 36

Cor. 120 48' E.

40.00 Deposited a marked stone 12
ins. in the ground for standard
1/4 Sec. Cor. dug pits 18x18x12 ins
E. and W. of Cor. 5 1/2 ft. dia and
raised a mound of earth 1 1/2 ft.
high 3 1/2 ft. dia over it

In E. pit drove a stake 2 ins. square
2 ft. long 12 ins. in the ground
marked S. C. 1/4 S. on N. face

70.00 Corral about 1 Ch. S. of line

75.00 Browns Ranch house bes
N. 2 chs.

Water tank and spring
bes. S. 2. 50 chs.

27

4th Standard parallel south
through R. 25 E.

Chains

80.00

Set a post $4\frac{1}{2}$ ft. long 4 ins
square with marked stone
12 ins. in the ground for
Standard Cor. to Tps 20 S. R^s
25 and 26 E. marked

S. C. T. 20 S. on W

R. 26 E. S. 31 on E. and

R. 25 E. S. 36 on W. faces.

with 6 notches on N. E. and W.

faces. dug pits $24 \times 18 \times 12$ ins

N. E. and W. of post crosswise

on each line, 6 ft. dia and

raised a mound of earth

$2\frac{1}{2}$ ft high 5 ft base

around post

Land level

Soil 1st and 2^d rates

Fine grazing.

4th Standard parallel south
through R. 26 E.

Chains

From the Standard Cor to Tps.

20 S. R²⁵ 25 and 26 E.

Just set by run

1 run

E. on South Bdy Sec. 31

Cor. 17° 48' E.

40.00 Set a post 3 ft. long 3 ins. diam
with marked stone 12 ins. in
the ground for Standard $\frac{1}{4}$ Sec
Cor marked S. C. $\frac{1}{4}$ S. on N face
dug pits 18 x 18 x 12 ins. E. and W.
of post 5 $\frac{1}{2}$ ft. dish and raised
a mound of earth 1 $\frac{1}{2}$ ft. high
3 $\frac{1}{2}$ ft. base around post

80.00 Deposited a marked stone 12
ins. in the ground for Standard
Cor. to Secs 31-32. dug pits 18 x 18
x 12 ins. N. E. and W. of Cor 5 $\frac{1}{2}$
ft. dish and raised a mound
of earth 2 ft. high 4 $\frac{1}{2}$ ft. base

4th Standard parallel south
through R. 26 E.

chains

occur. In E. pit down about
2 ins. square 2 ft. long 12 ins
in the ground marked
S. C. T. 20 S. R 26 E. on N
S. 32 on E. and

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

From which

A house br. N. 11° E. about
45. ²/₁₀ dist

A house br. S. 60° E. about 15 chs.
dist.

Level Valley

Soil 1st and 2⁵ rats

Fine grass

October 25 1883

4th Standard parallel South
through R. 26 E.

Chairs

E. on South Bdy, Dec. 32

Cor. 12048 E.

8.00 A house brs. S. 4.00 chs. dist.

10.00 Large water tank brs. S. 5 chs
dist.

40.00 Set a post 3 ft. long 3 ins square
with marked stone 12 ins. in the
ground for Standard $\frac{1}{4}$ Sec. Cor
marked S. C. 14 S. on N. face day
pit, 18 x 18 x 12 ins E. and W. 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. low around post

80.00 Set a post 4 $\frac{1}{2}$ ft. long 4 ins square
with marked stone 12 ins. in the
ground for Standard Cor to
Secs. 32 and 33 marked
S. C. T. 20 S. R. 26 on N.

S. 33 on E and

S. 32 on W. faces with 4

4 ft Standard parallel South
through R. 26 E.

Choirs

Notches on E, and 2 notches
on W. faces, dug pits 18x18x12
ins. N. E. and W. of post 5 1/2
ft. dirt and raised a mound
of earth 2 ft. high 4 1/2 ft. across
around post

Sand hill Valley

Soil 3rd rate

Gross profit

E. on South ldy, S. 1/2, 33

Cor. 12° 48' E.

40.00 Set a post 3 ft. long 3 ins square
with marked stone 12 ins. in the
ground for Standard 1/4 Sec.
Cor. marked S. C. 1/4 S. on N. face
dug pits 18x18x12 ins. E. and W.
of post 5 1/2 ft. dirt and raised
a mound of earth 1 1/2 ft. high 3 1/2

4th Standard parallel south
through R. 26 E.

Chains

46.00 ft. box around post
8000 Enter scattering catsclaw brush
Set a post $4\frac{1}{2}$ ft. long 4 ins. square
with marked stone 12 ins. in the
ground for Standard Cor. to
Secs. 33 and 34 marked
S. C. T 20 S. R 26 E. on W
S. 34 on E. and
S. 33 on W. faces with 3 notches
on E. and W. faces, dug pits
 $18 \times 18 \times 12$ ins, N. E. and W of post
 $5\frac{1}{2}$ ft. dirt and raised a mound
of earth 2 ft. high $4\frac{1}{2}$ ft. box
around post

Land level

Soil 2' and 3' patches

Catsclaw brush

4th Standard parallel South
thru R. 26 E.

Chains

E. on South Bdy. Sec. 34
Far 720481 E.

40.00 Deposited a marked stone
12 ins. in the ground for Standard
1/4 Sec. Cor. dug pits 18 x 18 x 12 ins
E. and W. of Cor. 3 1/2 ft. dia
and raised a mound of earth
1 1/2 ft. high 3 1/2 ft. base over it.
In E. pit drove a stake 2 ins
square 2 ft. long 12 ins. in the
ground marked S. C. 1/4 S. on
N. face

63.60 Cross Road to N. W. and S. E.

40.00 Deposited a marked stone 12 ins
in the ground for Standard Cor
to Secs. 34 and 35 dug pits
18 x 18 x 12 ins. N. E. and W. of
Cor. 5 1/2 ft. dia and raised
a mound of earth 2 ft. high
4 1/2 ft. base over it

4th Standard parallel south
through R. 26 E.

Chains

In E. pit drove a stake 2 ins.
square 2 ft. long 12 ins. in the
ground marked
S. C. T. 20 S. R. 26 E. on N.

S. 35 on E. and

S. 34 on W. faces with 2 notches
on E. and 4 notches on W. faces

Land nearly level

Soil 3rd rate

Catsclaw brush

E. on South bdy, Sec 35

Cor. 12° 48' E.

40.00 Deposited a marked stone
12 ins. in the ground for Standard
1/4 Sec. Cor. along pits 18 x 18 x 12 ins
E. and W. of cor. 3 1/2 ft. dia and
raised a mound of earth 1 1/2
ft. high 3 1/2 ft base over it

4th Standard Parallel South
through N. 26 E.

Chains

In E. pit drove a stake 2 ins.
square 2 ft. long 12 ins. in the
ground marked S. C. $\frac{1}{4}$ S. on
N. face

46.55 Cross road to N. W. & S. E.

8000 Deposited a marked stone
12 ins. in the ground for
Standard Cor. to Secs. 35 & 36
dry pits 18 x 18 x 12 ins N. E. & W.
of Cor. 5 $\frac{1}{2}$ ft. dia and raised
a mound of earth 2 ft. high
4 $\frac{1}{2}$ ft. tree over it. In E. pit
drove a stake 2 ins square 2 ft.
long 12 ins. in the ground
marked

S. C. T. 20 S. R. 26 E. on W.

S. 36 on E. and

S. 35 on W faces with 1 notch
on E. and 5 notches on W
faces

4th Standard parallel South
through R. 26 E.

chains

Land nearly level
Soil 3rd rate
Grass good

E. on South 1/4 Dec. 36
V. 1204 S. E.

- 40.00 Deposited a marked stone 12
ins. in the ground for Standard
1/4 Sec. Cor. dug pits 18 x 18 x 12
ins. E. & W. of Cor. 3 1/2 ft. dia.
and raised a mound of earth
1 1/2 ft. high 3 1/2 ft. over it
In E. pit drove a stake 2 ins. square
2 ft. long 12 ins. in the ground
marked S. C. 1/4 S. on N. face
- 76.00 Enter down Cat. claw and
green wood brush to N. W. & S. E.
- 80.00 Set a post 4 1/2 ft. long 4 ins
square with marked stone

4th Standard parallel south
through R. 26 E.

Chains

12 ins. in the ground for standard
Cor. to Tps. 20 S. R^s 26 and
27 E. marked

S. C. T 20 S. on N.

R. 27 E. S. 31 on E. and

R. 26 S. 36 on W. faces,

With 6ⁱⁿ notches on N. E. and

W. faces, dug pits 24 x 18 x 12

ins. N. E. and W. of post left,

dist. crosswise on each line

and raised a mound of

Earth 2 1/2 ft. high 5 ft. broad

around post

Loam slightly rolling

Soil 3rd rate

Veget. Catsclaw & grease

wood brush

I carefully examined the adjustments
of my solar instrument today partic-
ularly the latitude and leveling
apparatus and found them correct

of a Standard Parallel South
through R. 27 E.

40
to

shown

From the Standard Cor to Tps
20 S, R^y 26 and 27 E.

Just set by me

I run

E. on South Bdy Sec. 31

Cor. 13' 03' E.

40.00

Deposited a marked stone 12
ins. in the ground for standard
1/4 sec. cor. ~~stone~~ pits 18x18x12
ins. E. and W. of cor. 5 1/2 ft

dist and raised a mound
of Earth 1 1/2 ft high 3 1/2 ft
base over it. In E. pit drove

a stake 2 ins. square 2 ft
long 12 ins. in the ground
marked S. C. 1/4 S. on N. face

50.00

Set a post 4 1/2 ft. long 4 ins
square with marked stone
12 ins. in the ground for
standard cor. to lines. 31-32

4th Standard parallel South
through R. 27 E. Cont.

Chorus

Marked
 S. C. T. 20 S. R. 27 E. on N.
 S. 32 on E. and
 S. 31 on W. faces with 5 notches
 on E. and 1 notch on W. faces
 dug pits 18x18x12 ins. N. E. & W
 of post 5 1/2 ft. dia. and raised
 a mound of earth 2 ft. high
 4 1/2 ft. base around post
 Land slightly rolling
 Soil 3rd rate
 Some Mesquite, Catclaw
 and green wood bush

E. on South bdy Sec 32
 Cor. 13° 03' E.

4000 Deposited a marked stone
 12 ins. in the ground for
 Standard 1/4 Sec. Cor. dug
 pits 18x18x12 ins. E. & W of

4th Standard Parallel South
through R. 27 E.

Chairs

Corr. 5 1/2 ft. dist and raised
a mound of earth 1 1/2 ft
high 3 1/2 ft. base over it
In E. pit drove a stake 2 ins.
square 2 ft. long 12 ins in
the ground marked
S. E. 1/4 S. on N. face

5525 - Cross road to N. W. & S. E.
\$1.00 Set a post 4 1/2 ft. long 4 ins
square with marked stone
12 ins. in the ground for
Standard Cor. to Secs. 32-33
marked

S. E. T. 20 S. R. 27 E. on N.
S. 33 on E. and
S 32 on W. faces with 4 notches
on E. and 2 notches on W. faces
dug pits 18 x 18 x 12 ins. N. E. and
W. of post 5 1/2 ft. dist and
raised a mound of earth

41

4th Standard parallel South
through R. 27 E

chains

2 ft. high $4\frac{1}{2}$ ft. base around
post

Land slightly rolling
Soil 3⁵ rate

Dense Mesquite and
Catsclaw brush

E. on South bdy Sec. 33

Cor. $12^{\circ} 48'$ E.

40.00 Deposited a marked stone
12 ins. in the ground for
Standard $\frac{1}{4}$ sec. cor. dug
pits $18 \times 18 \times 12$ ins E. & W. of cor
 $5\frac{1}{2}$ ft. dia and raised a
mound of earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. base over it

In E. pit drove a stake 2 ins.
square 2 ft. long 12 ins. in
the ground marked S.E. $\frac{1}{4}$ S

4 ft Standard parallel south
through R. 27 E.

Chains

on N. face

80.00 Set a Limestone 20x16x6 ins
15 ins. in the ground for
Standard Cor. to Secs. 33-34
marked S.C. with 3 notches
on E + W. edges and
raised a mound of stone
alongside

Pts. impracticable

Land slightly rolling
Soil 3^d and 4th rate

Woods Mesquite Catclaw
and green wood brush

E. on South bdy Sec 34

Cor. 12° 48' E.

40.00 Deposited a marked stone
12 ins. in the ground for
Standard 1/4 Sec. Cor. day

4 of Standard parallel South
through R 27 E.

chains

pit 18x18x12 ins. E. + W. of cor
5 1/2 ft. dia, and raised
a mound of earth 1 1/2 ft.
high 3 1/2 ft. base over it
In E. pit drove a stake 2 ins
square 2 ft long 12 ins. in
the ground marked S.C. 1/4
on N. face

50.00 Ascend low ridge
bet. N. + S.

56.00 Top of Ridge bet N + S, and
descent

62.00 Lean foot of same bet N + S.

80.00 Set a Limestone 18x12x8 ins
12 ins. in the ground for
Standard Cor. to eos. 34-35
marked S.C. with 2 notches
on E. and 4 notches on W.
edges and raised a mound
of stone alongside

4th Standard Parallel South
through N. 27 E.

chains

Pits impracticable

Land rolling

Soil 3^d rate

Neen Mesquite

Cats claw & greasewood brush

Oct. 26 1883

E. on South bdy. Sec. 35

Cor 12° 48' E.

36.00 Cross Arroyo 150 lts wide
Course S. W.

40.00 Set a Limestone 14 x 8 x 6 ins
9 ins. in the ground for
Standard 1/4 Sec. Cor. marked
S. C. 1/4 on N. face and
raised a mound of stone
alongside. Pits impracticable

56.50 Cross Arroyo Course N. W.

80.00 Set a Limestone 16 x 12 x 8 ins

4th Standard Parallel South
through R. 27 E.

Chains

11 ins. in the ground for
Standard Cor. to Secs 35-36
marked S.C. with 1 notch on
E and 3 notches on W. edges
and raised a mound of
stone along rail.

Pits impracticable
Land selling
Soil + ⁰⁰ rats
Very dense Mesquits and
Cats claw brush

E. on South boundary Sec 36
Cor. 13° 01' E.

00.30 Cross Arroyo 20 lks. wide
Course S. W.

6.60 Cross Arroyo 40 lks wide
Course S. W.

14.00 Cross Arroyo 45 lks wide

4th standard parallel South
thro. R. 27 E.

Chains

- 37.00 Cross Arroyo 70 lks wide
Course S. W.
- 41.00 Set a Porphyry stone ~~stones~~
20 x 14 x 8 ins. 15 ins. in the
ground for Standard $\frac{1}{4}$ Sec
Cor. marked S. C. $\frac{1}{4}$ on N. face
and raised a mound of
stone alongside.
Pits impracticable.
- 43.00 Cross deep Arroyo 60 lks
wide Course S. and
ascend low spur of ^{Swiss helmet} M^t
bis. N. W. and S. E.
- 51.20 Top of spur and cross a trail
bis. N. W. and S. E. and
descend
- 59.00 Foot of spur and cross
Arroyo Course N. W. and
ascend main Range of
Swiss helmet mountains

4th Standard parallel South
through R. 28 E.

Chain

43.00 Top of main divide of
mountains bis. N. 20° W. and
S. 20° E. and

descend

74.00 Cross Arroyo 40 lks wide
down S. E.

74.50 Cross trail bis. N. W. & S. E. and
ascend

80.00 Set a granite stone 20 x 16 x 10
ins. 15 ins. in the ground for
Standard Cor. to Secs. 31-32
marked S. C. with 5 notches
on E, and 1 notch on Wedges
and raised a mound of stone
alongside. Pth impracticable
Land very mountainous
and broken

Soil stony 4th rate

Scattering Mesquite & Catclaw

4th Standard parallel south
thro R. 28 E

Chains

E. on S. bdy. sec. 32

Var. $13^{\circ} 0'$ E.

17.00 Top of Spar br. N.W. + S.E. and
descend

40.00 Set a granite stone $22 \times 16 \times 12$ ins
16 ins. in the ground for
Standard $\frac{1}{4}$ Sec. Cor. marked
S. C. $\frac{1}{4}$ on N. face + raised
a mound of stone alongside
Pit impracticable

54.00 Leave foot of mountain
bes N.W. and S.E.

80.00 Set a granite stone $14 \times 12 \times 8$
ins. 8 ins. in the ground for
Standard Cor to Secs 32-33
marked with 4 notches on E,
and 2 notches on W. edges
and raised a mound of stone
alongside. Pit impracticable
Land very broken and

4th Standard parallel south
thru R. 28 E,

Chains

mountainous

Soil 4th rate

Scattering mesquite and
sage brush

E. on S. hdy. Sec. 33

Cor. 130 E

4.00 Cross Arroyo 30 lks wide
Corner S. E.

40.00 Set a granite stone 14 x 12 x 4
ins. 9 ins. in the ground for
Standard $\frac{1}{4}$ Sec. Cor marked
S. C. $\frac{1}{4}$ on N. face and
raised a mound of stones
alongside. Pit impracticable

80.00 Set a granite stone 19 x 10 x 9
ins 14 ins. in the ground for
Standard Cor. to Secs 33-34
marked S. C. with 3 notches

4th Standard parallel South
thru R. 28 E

Chairs

on E. and W. edges and
raised a mound of
stone alongside.

Pits impracticable
Land broken and rough
Soil stony & it rate
Goes good

E. on S. bdy, Sec. 34
Var. 130 E.

26.00 Cross Arroyo 20 lks wide
Cross S. E.

32.00 Cross trail bet. N. and S.

40.00 Set a granite stone 12x10x6 ins.
8 ins. in the ground for standard
1/4 Sec. cor. marked S.C. 1/4 on
N. face and raised a mound
of stone alongside
Pit. impracticable

4th Standard parallel south
thru. R. 28 E.

Chain

44.00 Enter Valley brs. N. & S. and
ascend

53.70 Cross road brs. N & S.

58.00 Cross Arroyo 20 lks wide Course S.

61.50 Cross trail brs. N & S. and
ascend

70.00 Top of low hill and
descend

78.00 Foot of same and
ascend gradually br. N. & S.

80.00 Set a granite stone 16 x 10 x 8 in
11 in. in the ground for Standard
Cor. to Secs. 34 & 35 marked
S. C. with 2 notches on E. and
4 notches on W. edges and
raised a mound of stone
alongside. Pit impracticable
Sand rolling & rough
Soil stony & a rate
Open field

Oct. 27 1883

4th standard parallel south
through R. 2 & E.

Chains

E. on South bdy. Sec. 35
Cor. 13° 0' E.

Ascending

- 40.00 Set a granite stone 18x10x10 ins
12 ins. in the ground for standard
1/4 sec. Cor. marked S. C. 1/4 on
N. face and raised a mound
of stone alongside
Pits impracticable
- 68.00 To Edge of Cañon and
descend. Corner S. W.
- 80.00 Set a granite stone 15x10x10 ins
10 ins. in the ground for standard
Cor. to Secs. 35 and 36 marked
S. C. with 1 notch on E and
5 notches on W. edges and
raised a mound of stone
alongside. Pits impracticable
Soil mountainous & broken
Soil 4th rate. Some grass

4th Standard Parallel South

thro. R. 28 E.

Chains

E. on S. bdy. Sec. 36
Cor. 13° E.

22.00 Bottom of Cañon and Anoyos
Course S. W. and ascend
over low point

30.00 Top of same and descend
(Water tank 3. Chs. N.

33.00 Cross Anoyos 30 lks wide
Course N. W.

37.00 Cross same Anoyos 32 lks wide
Course S. W. and
ascend

40.00 Set a granite stone 12x10x6 ins
8 ins. in the ground for standard
1/4 Sec. Cor. marked S. C. 1/4 on N
face and raised a mound
of stone along side
Pt. impracticable

80.00 Set a granite stone 20x18x12
ins. 18 ins. in the ground for

4th Standard parallel South
 thro R. 28 E.

Chim

Cor. to Tps. 20 S. R^o 28 + 29
 E. marked S. C. with 6 notches
 on N. E. & W. edges and raised
 a mound of stone along side.
 Pith impracticable

Land very mountainous & hilly
 and broken

Soil stony 4th rate
 some oak timber

I carefully examined the adjust-
 ments of my solar instrument
 today particularly the latitude
 and reversing apparatus
 and found them correct

4th Standard parallel South
thro. R. 29 E.

Chain

From the standard Cor. to Tps
20 S, R² 28 and 29 E.
just set by me
I run

E. on S. bdy. Sec 31

Var $130^{\circ} 0' E$.

40.00

Set a granite stone $13 \times 12 \times 8$ ins
9 ins. in the ground for Standard
 $\frac{1}{4}$ Sec. Cor. marked S. C. $\frac{1}{4}$ on

N. face and raised a mound
of stone along side.

Pits impractical

46.00

Bluff 60 ft. high. Peak of
mountain to N. about 3.50
Chs. dist. and

descend

78.00

Leave foot of round mountain

80.00

Set a granite stone $15 \times 14 \times 8$ in
10 ins. in the ground for Standard
Cor. to Secs. 31 and 32 marked

4th Standard Parallel South
thru Range. 29 E.

Chains

S. C. with 5 notches on E. and
1 notch on W. edges and
raised a mound of stone
alongside. Pits impracticable
Land mountainous & very broken
Soil stony 4th set
Some Oak timber

E. on South Side, Dec. 32

Var. $13^{\circ} 45' E.$

Ascend ^{Peak} bes. N. E. & S. W.

3000 Highest point on W. slope of
sharp Peak and descend
S. E. slope

4000 Set a granite stone $13 \times 10 \times 7$ ins
9 ins. in the ground for standard
 $\frac{1}{4}$ Dec. Cor. marked S. C. $\frac{1}{4}$ on
N. face and raised a mound
of stone alongside
Pit impracticable

4th Standard Parallel South
thru R. 29 E.

Chains

47.00

Steep Bluff of rocks 50 ft.
high bet. N. & S.

80.00

Set a granite stone 15x10x8 ins
10 ins. in the ground for
Standard Cor. to Secs 32-33
marked S. C. with 2 notches on
E. and 4 notches on W. Edges
and raised a mound of
stone alongside.

It's impracticable

Land very mountainous
and broken.

Soil 4th rate

Some oak timber

E. on S. bdy. Sec 33

Cor. 130° 11' E

Over very mountainous & broken
land

4 d Standard Parallel South
thro R. 29 E.

Choin

- 39.00 Cross Arroyo 25 lks with Course S. W.
- 40.00 Set a granite stone 10x10x7 ins
7 ins. in the ground for standard
1/4 Sec. Cor. marked S. C. 1/4 on
N. face and raised a mound
of stone along side
Pits impracticable
- 47.00 A Spring 6 Chs. N. of line
- 51.00 Top of low ridge bet N. S. and
descend
- 59.60 Cross Arroyo 24 lks with
Course N. W.
- 79.80 A Cabin 40 lks. S. of line
- 80.00 Set a granite stone 18x14x10 ins
12 ins. in the ground for
Standard Cor. to Secs. 33-34
marked with 3 notches on E. and
W. edges and raised a mound
of stone along side
Pits impracticable

4th Standard Parallel South
thru R. 29 E.

choices

From which

An oak tree 17 ins. diam
hs. N. 16° W. 66 lks. dist.
marked

T. 20 S. R. 29 E. S. & E.

S. 3 $\frac{1}{2}$ B. T.

No other trees within limits

Level mountainous and broken

Soil 4th rate

Some oak timber

E. on S. body. Sec. 34

Var 13° 10' E.

1.00 Creek 10 lks. wide. (good water)
Course S.
and ascend

Spring 10 Chs. N.

10.00 Top of ridge hs N. W. & S. E.

20.10 Cross Arroyo 20 lks wide Course
S. ascend Round Peak

4 a Standard Parallel South
through R. 29 E,

Choir

39.00 Highest point on S. slope of
high peak, Summit of some
2 chs. N. and
descend

40.00 Set a Metamorphic sandstone
18 x 18 x 12 ins. 12 ins. in the
ground for Standard 1/4 Sec
Cor. marked S. C. 1/4 on N.
face and raised a mound
of stone along with
Pit, impracticable

48.00 Cross Arroyo 20 lks. wide
course S. and ascend
main divide

50.00 Set a Granite stone 20 x 16 x 10 ins.
15 ins. in the ground for
Standard Cor. to Secs. 34-35
marked S. C. with 2 notches
on E. and 4 notches on W.
Edges and raised a mound

4th Standard Parallel South
through R. 29 E.

Chains

of stone along side
Pit. impracticable
Tand very mountainous and broken
Soil 4th rate
Some oak timber

E. on South bdy. Sec 35
Nor. 12° 48' E.

Ascend

7.00

Top of main divide of
Chinicahua mountains
br. N. 10° E. and S. 10° W. and
descend

40.00

Set a front stone 14 x 12 x 8
ins. 9 ins. in the ground for
standard 1/4 Sec. Cor. marked
S. C. 1/4 on N. face and raised
a mound of stone along side
Pit. impracticable

4th Standard Parallel South
through R. 29 E.

Chains

80.00

Set a granite stone $20 \times 10 \times 10$
ins. 15 ins. in the ground for
Standard Cor. to Secs 35-36
marked S. C. with 4 notches
on E. and 3 notches on W.
edges and raised a row
of stone along side

Pit impracticable

Sand mountainous & broken
Soil 4th rate

Some fine Oak

October 28 1883

E. on S. boundary Sec. 36
Nor. $12^{\circ} 48' E.$

Nes cend

18.00

Dry Creek Corner S. W.

4th Standard Parallel South
thru R. 29 E.

Chairs

- 40.00⁺ Set a granite stone 15x14x9 in
10 ins. in the ground for
Standard 1/4 Sec. Cor. marked
S. C. 1/4 on N. face and raised
a mound of stone alongside.
Pit. impracticable
- 43.00 Crossed Sec. N. E. + S. W.
- 43.50 Crossed creek 20 lks. wide
Course N. E. and
ascend
- 80.00 Set a granite stone 18x14x12
ins. 12 ins. in the ground for
Standard Cor. to Tps 20 S.
R. 29 + 30 E marked S. C.
with 6 notches on N. E. + W.
edges and raised a mound
of stone alongside. Pit. impracticable
Lavel mountainous + broken
Soil 3' rate.
Some fine oak timber

4th Standard Parallel South
through R. 30 E.

Chains

From the Standard Cor to Tps
20 S. R. 29 and 30 E.
just set by me
I ran

E. on South bdy, Sec. 31

Var. $12^{\circ} 48' E.$

Ascend

- 16.00 Top of mountain Ridge bet
N. E. and S. W.
- 21.00 Descend ^{mt ridge} bet N. E. & S. W.
- 40.00 Set a limestone $16 \times 13 \times 8$ ins
11 ins. in the ground for Standard
 $\frac{1}{4}$ Sec. Cor. marked S. C. $\frac{1}{4}$ on
N. face and raised a mound
of stone alongside
Pts impracticable
In small room, and ascend
bet N. E. and S. W.
- 63.00 Top of point of mesa and
descend N. E. slope

4 ft Standard Parallel South
through R. 30 E.

shows

80.00

Set a Lime stone $15 \times 6 \times 5$ ins
10 ins. in the ground for
Standard Cor. to Secs. 31-32
marked S. C. with 5 notches
on E, and 1 notch on W. Edges
and raised a mound of stone
alongside. Pits impracticable
Along broken and mountainous
North Edge of Mesa
Soil 4 ft pate
Some oak

E. on S. bdy. Sec 32

Cor. $120^{\circ} 48' E.$

1.70

Cross Arroyo 20 lks with
Cowan R. and
Ascend

23.00

Top of mountain Ridge
bet. N. + S. and
descend

4th Standard Parallel South
 thro Range 30 E

Chains

- 38.00 Foot of pole and enter
 San Simon Valley bet. N. & S.
- 40.00 Set a larva stone $20 \times 10 \times 10$ ins
 15 ins. in the ground for
 standard $\frac{1}{4}$ Rec. Cor. marked
 S. C. $\frac{1}{4}$ on N. face, dug pit
 $18 \times 18 \times 12$ ins. E. and W. of
 stone $5\frac{1}{2}$ ft. dia and raised
 a mound of earth $1\frac{1}{2}$ ft high
 $3\frac{1}{2}$ ft. base along side
- 45.00 Trail bet. N. E. and S. W.
- 51.00 Enter Arroyo Craver S. E.
- 60.00 lean pole " S. E.
- 80.00 Set a post $4\frac{1}{2}$ ft. long 4 ins.
 square with marked stone
 12 ins. in the ground for
 standard Cor. to Recs 32-33
 marked
 S. C. T. 20 S. R. 30 E. on N.
 S. 33 on E. and

4th Standard Parallel South
 through R. 30 E.

Chairs

S. 32 on N. faces with 4 notches
 on E. and 2 notches on W. faces
 dug pits 18 x 18 x 12 ins. N. E. & W.
 of post 5 1/2 ft. dist and
 raised a mound of earth
 2 ft. high 4 1/2 ft. base around
 post

Found Rolling

On 3rd rate

Open good

E on South bdy Sec 33
 Cor. 120 48' E.

42000 Set a granite stone 15 x 10 x 10
 ins. 10 ins. in the ground
 for Standard 1/4 Sec. Cor.
 marked S. C. 1/4 on N. face
 dug pits 18 x 18 x 12 ins E & W
 of stone 5 1/2 ft. dist and

4th Standard Parallel South
through R. 30 E.

Chairs

80.00 Raised a mound of earth $1\frac{1}{2}$
ft. high $3\frac{1}{2}$ ft. base along side
Set a granite stone $12 \times 10 \times 8$ ins
& ins. in the ground for standard
Cor. to Recs. 33-34 marked
S. C. with 3 notches on E. & W.
edges. dug pits $18 \times 18 \times 12$ ins
N. E. & W. of stone $5\frac{1}{2}$ ft. dia
and raised a mound of
earth 2 ft. high $4\frac{1}{2}$ ft base
alongside

Land level

Soil 2^d and 3^d rate

Grass field

E. on S. bdy Sec 34

Sta. 12048 E.

Over land valley

4th Standard Parallel South through Range 30 E.

Chains

40.00 Set a granite stone 10x10x8 ins
7 ins. in the ground for Standard
1/4 Sec. cor. marked S. C. 1/4 m
N. face and raised a mound
of stone alongside
Pit, impracticable

80.00 Set a granite stone 11x8x8 ins
7 ins. in the ground for Standard
Cor. to Secs. 34 & 35 marked
S. C. with 2 notches on E. and
4 notches on W. edges and
raised a mound of stone
alongside. Pit, impracticable
Land level
Soil 25 and 35 sets
Grass good

E. on S. by Sec 35
Var. 12048' E.

4th Standard parallel south
 through R. 30 E.

Chains

40.00

Set a granite stone $12 \times 8 \times 4$ in
 8 in. in the ground for Standard
 $\frac{1}{4}$ Sec. cor. marked S. C. $\frac{1}{4}$ on
 N. face, dug pits $18 \times 18 \times 12$ in
 E. and W. of stone $5\frac{1}{2}$ ft. dist
 and raised a mound of earth
 $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. broad
 alongside

30.00

Road bet. N. E. & S. Dr.

80.00

Set a granite stone $14 \times 8 \times 8$ in
 9 in. in the ground for Standard
 Cor. to Secs. 35-36 marked S. C.
 with 1 notch on E, and 5 notches
 on W. edges, dug pits $18 \times 18 \times 12$
 in N. E. & W. of stone $5\frac{1}{2}$ ft.
 dist and raised a mound
 of earth 2 ft high $4\frac{1}{2}$ ft. broad
 alongside

Sand bed

Soil 2' and 3' sub

grass good

4th Standard parallel south
Through R. 30 E.

Chain

E. on S. bdy. Sec. 36
Cor. 12048' E.

Over level valley

41.00 Set a granite stone 10 x 10 x 8 ins
7 ins in the ground for standard
1/4 Sec. Cor. marked S.C. 1/4 on
N. face dug pits 18 x 18 x 12 ins
E. & W. of stone 5 1/2 ft. dia
and raised a mound of earth
1 1/2 ft. high 3 1/2 ft. dia alongside

80.00 Set a granite stone 13 x 8 x 8 ins 8
ins. in the ground for standard cor
to Tps 20 South R^s 30-31 E.
marked S.C. with 6 notches on N.
E. & W. edges and raised a mound
of stone alongside. Pits impracticable
Land level
Soil 2^d and 3^d rate
Graz. good

4th Standard parallel south
through R. 31 E.

chains

I carefully examined the
adjustments of my solar
instrument today particularly
the latitude and reversing
apparatus and found them
correct

From the Standard Cor to
Tps. 20 S. R. 30 and 31 E,
just set by me

I ran

E. on South bdy sec. 31

Var $12^{\circ}48' E$,

4170 Cross Arroyo 31 lks. W. of Cor. S.E.

28.20 " trail bis. N. W. & S. E.

4200 Set a granite stone $10 \times 8 \times 8$
ins. 7 ins. in the ground for
Standard $\frac{1}{2}$ Sec. Cor marked

7⁵ 4th Standard parallel South
through R. 31 E.

Chains

S. C. $\frac{1}{4}$ on N. face, dug pits
18 x 18 x 12 ins. E. & W. of stone
 $3\frac{1}{2}$ ft. dirt and raised a
mound of earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. bar alongside

73.10 Cienega flows S.
80.00 Set a post 4 ins. square $4\frac{1}{2}$
ft. long with marked stone
12 ins. in the ground for
Standard Cor. to Secs. 31-32
marked

S. C. T. 200. R. 31 on N.

S. 32 on E. end

S. 31 on W. faces with 5 notches
on E. and 1 notch on W. faces
dug pits 18 x 18 x 12 ins. N, E, & W.
of post $5\frac{1}{2}$ ft. dirt & raised
a mound of earth 2 ft high
 $4\frac{1}{2}$ ft. bar around post
Land level

4th Standard parallel South
through R. 31 E.

Chains

Soil 2^d and 3^d rate
Gross good

E. on S. by Lic. 32
Cor. 12° 48' E.

10.00 Head of Cimiga 7 chs. N.
flows S. E.

28.00 Small pond of water about
12 chs. S.

31.00 Cimiga 18 chs. N, flows
E. S. E.

40.00 Set a granite stone 12 x 8 x 8 ins
8 ins in the ground for standard
1/4 Sec. Cor. marked S. C. 1/4 on
N. face and raised a mound
of stone alongside.

Pits impracticable

49.00 Cimiga 50 chs N. flows E.

58.00 Water from Cimiga sinks on

77
4th Standard parallel South
Thru R. 31 E.

Chains

line

80.00

Set a post $4\frac{1}{2}$ ft. long 4 ins
square with marked stem
12 ins. in the ground for
Standard Cor. to Secs. 32-33
marked 6.2

S. C. T. 20 S. R. 31 E. on N.

S. 33 on E. and

S. 32 on W. faces with 4
notches on E. and 2 notches
on W. faces, dug pits $18 \times 18 \times$
12 ins. N. E. + W. of post $5\frac{1}{2}$
ft. dirt and raised a
mound of earth 2 ft. high
 $4\frac{1}{2}$ ft. bar around post
Land rolling + level
Soil 3rd rate

Grass good

Oct 30 1883

4th Standard parallel south
through R. 31 E.

chains

E. on S. ldy. Sec 33

Cor. 12048' E.

4,50 Road to Rancho hrs. N.W. & S.E.

15,00 House & Corral hrs S, about
14 Chs. dia

40,00 Set a granite stone 12x12x6
ins. 8 ins. in the ground for
Standard $\frac{1}{4}$ Sec. Cor. marked
S. C. $\frac{1}{4}$ on N. face, dug pits
18x18x12 ins. E. & W. of stone
5 $\frac{1}{2}$ ft. dia and raised a
mound of earth 1 $\frac{1}{2}$ ft. high
3 $\frac{1}{2}$ ft. from along side

80,00 Set a post 4 $\frac{1}{2}$ ft. long 4 ins
square with marked stone
12 ins. in the ground for Standard
Cor. to Secs. 33-34 marked
S. C. T. 20 S. R. 31^E on N.
S. 34 on E and
S. 33 on W. faces with 3

79

4th Standard parallel South
 thru R. 31 E.

Chain

Notches on E. and W. ^{faces} Edges
 dug pit 18 x 18 x 12 ins N.E. & W.
 of post 5 1/2 ft. dia and
 raised a mound of earth
 2 ft. high 4 1/2 ft. dia around
 post
 Land level & rolling
 Soil 2⁵ + 3⁵ rate
 Grass good

E. on S. bdy Sec. 34

Var. 12° 48' E.

20.60

Ray Creek 24th Sec. W. 1/4 Cor. N.E.

40.00

Set a post 3 ft. long 3 ins square
 with marked stone 12 ins. in
 the ground for Standard 1/4
 Sec. Cor. marked S. C. 1/4 S.
 on N. face, dug pits 18 x 18 x 12
 ins. E & W. of post 5 1/2 ft. dia

4th Standard parallel South
through R. 31 E.

Chain

and raised a mound of
earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
around post

80.00

Set a post $4\frac{1}{2}$ ft. long 4 ins
square with marked stone
12 ins. in the ground for
Standard Cor. to lines 34-35
marked

S.C. T. 20 S. R. 31 E. on N.

S. 35 on E. and

S. 34 on W. faces with 2
notches on E. and 4 notches on
W. faces, dug pits $18 \times 18 \times 12$ ins
N.E. & W. of post $5\frac{1}{2}$ ft. ditch
and raised a mound of
earth 2 ft. high $4\frac{1}{2}$ ft. base
around post

Land slightly rolling Valley
Soil 2^d and 3^d rate
grass good

4^d Standard parallel south
 thro R. 31 E.

Chains

E. on S. bdy. Sec. 35
 Cor. 12' 48' E.

35.00 Enter Lava covered ground
 bet. N. E. and S. str.

40.00 Set a post 3 ft. long 3 ins.
 square with marked stone
 12 ins. in the ground for
 Standard $\frac{1}{4}$ Sec. Cor. marked
 S. C. $\frac{1}{4}$ S. on N. face. dug
 pits 18 x 18 x 12 ins. E & W.
 of post 5 $\frac{1}{2}$ ft. dia. and
 raised a mound of earth
 1 $\frac{1}{2}$ ft. high 3 $\frac{1}{2}$ ft. over
 around post

80.00 Set a Lava Stone 10 x 8 x 7
 ins 7 ins. in the ground for
 Standard; Cor. to Sec 35 & 36
 marked S. C. with 1 notch on
 E. and 5 notches on W. ^{edge} face
 and raised a mound of

4th Standard parallel south
through R. 3, E.

Chairs

Stone along with

Pit impracticable

From which to.

A Peak in the Chimacoma
range N. 11° E.

A Peak in same Range
N. 25° W.

A Peak in same N. 42° 43' W.

Land level.

Soil 35 rate

Gross good

E. on S. bdy sec. 36

Cor. 12° 48' E.

19 Aug 15 lks wide Corner N. E.

40.00 Set a Lava stone 12 x 10 x 6 ins.

8 ins. in the ground for

Standard 1/4 sec. Cor. marked

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

4th Standard parallel south
through R. 3, E.

Chairs

raised a mound of stone
alongside.

Pits impracticable

\$0.00

Set a post $4\frac{1}{2}$ ft. long 4 ins
square with marked stone
12 ins. in the ground for
Standard Cor. to Tps 20 S.

R. 31 and 32 E, marked
S. C. T. 20 S. on N.

R. 32 E. S. 31 on E.

R 31 E. S. 36 on W. faces with 6
notches on N, E & W faces.

dry pit $24 \times 18 \times 12$ ins N, E & W.

of post crosswise on each
line 6 ft. dia and raised

a mound of earth $2\frac{1}{2}$ ft
high 5 ft. dia around post
from which to

A Peak in the Chiracahua Range
N. 31° W

A Peak in some Range N. $48^{\circ}40'$ W.

1st Standard parallel South
through R. 32 E.

Cheris

Land level
Soil 3rd rate
Gross good

From the Standard Cor. to Tps
20 S, R^e 31 and 32 E.

Just set by me
↓ run

E. on S. bdy. Sec. 31

Cor. 13° 18' E.

40.00 Set a Lava stone 13 x 12 x 7 in
8 in. in the ground for Standard
Sec Cor. marked S. C. 1/4 on N. face
dry pit 18 x 18 x 12 in. E & W.

of stone 5 1/2 ft. disk and
raised a mound of earth
1 1/2 ft. high 3 1/2 ft. base alongside

80.00 Set a post 4 1/2 ft. long 4 in
square with marked stone

4th Standard parallel South
through R. 32 E.

Chains

12 ins. in the ground for Standard
Cor to Sec 31 and 32 marked
S. C. T. 20 S. R. 32 on N.

S. 32 on E and

S. 31 on W. faces with 5
notches on E, and 1 notch on
W. faces, dug pit 18 x 18 x 12
ins N. E. & W. of post 5 1/2 ft.
dirt and raised a mound

of earth 2 1/2 ft. high 4 1/2
ft. base around post
Sand level

Soil 2' x 3' rate

Good ground

E. on S. body Sec. 32

Var. 13° 18' E.

36.00 Dry Creek 48 lbs wide 4 in
N. 13° W.

4th Standard Parallel South
through Range 32 E,

Chorus

40.00

Set a post 3 ft. long 3 ins.
square with marked stone
12 ins. in the ground for Standard
1/4 Sec. Cor. marked S.C. 1/4 S.
on N. face, dug pit 18 x 18 x 12
ins. E. & W. of post 5 1/2 ft.
dick, and raised a mound
of earth 1 1/2 ft. high 3 1/2 ft
base around post

80.00

Set a post 4 1/2 ft. long 4 ins.
square with marked stone
12 ins. in the ground for
Standard Cor. to Sec 32-33
marked
S.C. T. 20 S. R. 32 E. on N.
S. 33 on E. and
S. 32 on W. faces with 4 notches
on E. and 2 notches on W faces
dug pit 18 x 18 x 12 ins. N. E. & W.
of post 5 1/2 ft. dick and

4th Standard parallel South
through R. 32 E.

Chairs

Raised a mound of earth
2 ft. high 4 1/2 ft. across
around post
Land level
Soil 3^d and 4th rate
Grass good

E. on S. bdy, Sec 33
Var. 13° 13' E.

40.00 Set a post 3 ft. long 3 ins
square with marked stone
12 ins. in the ground for
Standard and 1/4 Sec. Cor. marked
S. C. 1/4 S. on N. face, depth
18 x 18 x 12 ins E. & W. of post 5 1/2
ft. dia and raised a mound
of earth 1 1/2 ft. high 3 1/2 ft. across
around post

60.10 Round hill bis. N. & Chs. dia

4th Standard parallel south

Thro R. 32 E.

Chain

80.00

Set a post $4\frac{1}{2}$ ft. long 4 ins square with marked stem 12 ins. in the ground for Standard Cor. to Rcs 33-34
Marked

S. C. T. 20 S. R. 32 E. on N

S 34 E. on E. and

S. 33 on W. faces with 3 notches on E. and W. faces, dug

pit $18 \times 18 \times 12$ ins N. E. & W.

of post $5\frac{1}{2}$ ft. dia and

raised a mound of earth

2 ft. high $4\frac{1}{2}$ ft. base

around post

Land level

Soil 3' & 4th rate

Grass good

Fig 4th Standard parallel south
through R. 32 E.

Chain

E. on S. bdy Sec. 34
Var. $12^{\circ} 18' E.$

40.00 Set a post 3 ft. long 3 ins
square with marked stone
12 ins. in the ground for
Standard $\frac{1}{4}$ Sec. Cor. marked
S. C. $\frac{1}{4}$ S. on N. face, dug
pit 18 x 18 x 12 ins E. & W. of
post 5 $\frac{1}{2}$ ft. dia and
raised a mound of earth
1 $\frac{1}{2}$ ft. high 3 $\frac{1}{2}$ ft. over
around post

75.00 Enter Creek bottom Course N. W.

80.00 Set a granite stone 24 x 12 x 8 ins
18 ins. in the ground for Standard
Cor to Secs. 34-35 marked
S. C. with 2 notches on E,
and 4 notches on W. edges
and raised a mound of
stone alongside

BOOK 1495 90

4th Standard parallel south
through R. 37 E.

Choin

Pits impracticable
Sand rolling
Soil 3rd + 4th rate
Gross good

E. on S. bdy Sec. 35
Cor. 13' 18' E.

9.00 Cross dry Creek corner N.W. and
ascend

18.38 Interest New Mexico and
Arizona Boundary line
24.57 chs. South of the 369th
mile which is a granite stone
18 x 5 ins set firmly in a
mound of stone marked
"369" on the North face
"37 N. L." on the South face
"Ariz" on the West and
"N. M." on E. faces

91 4th Standard parallel contt
thru R. 32 E,

Standard

At point of intersection
Set a Granite stone 32x16x12
in 24 in. in the ground for
Closing Cor^{to Sps 20 S, R 32 E} marked

"A" with 5 notches on W. face
N. M. on E.

6 notches on N and

C, S, C, with 6 notches on S, faces
and raised a mound of stone
Land falling along with
Soil 3rd rate ^{Pls. impracticable}

grass good

Oct 3, 1883

Final Oath of U. S. Deputy Surveyor.

I Johnston B. McLaughlin

United States Deputy Surveyor, do solemnly swear that in
pursuance of instructions received from J. N. Robbins

U. S. Surveyor General for Ari-
zona bearing date of the 18th day of June

1883. 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

Fourth Standard Parallel South
through Rs. 20, 24, 25, 26, 27,

28, 29, 30, 31 and 32 E. of the

Gila and Salt River Base and Meridian

~~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

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.

Johnston B. Langdon
U. S. Deputy Surveyor.

Subscribed and sworn to before me, this 31st
day of October 1883.

R. C. Powers
Notary Public.

Final Oaths for Surveys.

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LIST OF NAMES. BOOK 1495

A List of the Names of Individuals employed by
Johnston P. McLaughlin 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 Fourth Standard Parallel South through
Ranges #23 24 25 26 27 28 29 30 31st 32
East of T & R Principal Base nd Meridian

of the principal base and meridian in the Territory of Arizona,
showing the respective capacities in which they acted.

- Walter B. Neil, Combesman
- John Woods, Chainman
- William D. Shearer, do
- Charles Lead, do
- Augustus C. King, do
- John R. Thomas, Myman
- Leonard A. Campbell, do
- Charles Grasen, Flagman

Final Oaths of Assistants.

We hereby certify that we assisted Johnston P. McLaughlin U. S. Deputy Surveyor, in surveying the Fourth Standard Parallel South through Ranges * 23, 24, 25, 26, 27, 28, 29, 30, 31 and 32 East of G. S. L.

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 Surveyor has been in all respects, to the best of our knowledge and belief well and faithfully surveyed, and the corner monuments established according to the instructions furnished by the U. S. Surveyor-General for Arizona.

John Wood William D. Shaver
Chas. B. Read August E. König
John R. Thomas
Leonard A. Campbell
Charles Graser Flagman

Subscribed and sworn to before me this 31st day of October 1883.

Walter B. Neil
Notary Public.



Final Oaths of Assistants.

BOOK 1495

We hereby certify that we assisted *Johnston*

B. McLaughlin U. S. Deputy Surveyor, in surveying
The South Standard Parallel South
through Ranges No. 23, 24, 25, 26, 27, 28,
29, 30, 31 & 32 East of G. & S. R.

~~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.

Walter B. Hill Comptroller

Subscribed and sworn to before me this 13

day of

July

1884

W. H. [Signature]
Notary Public.



U. S. Surveyor General's Office,

Tucson, Arizona, July 21, 1884

The foregoing Field Notes of the Survey of the

4th Standard Parallel South.
Through Ranges

23. 24. 25. 26. 27. 28. 29. 30. 31

and 32 East

Of the Gila and Salt River Base and Meridian, Arizona, executed by

J. B. McLaughlin

Deputy Surveyor, under his contract of the 18th

day of June, 1884, having been

critically examined and the necessary corrections and explanations made, the said Field Notes and the surveys they describe

are hereby approved

Royal A. Johnson
Surveyor General.