

BOOK 1494

1494

1494

F I E L D N O T E S
OF THE SURVEY OF THE
FOURTH STANDARD PARALLEL SOUTH THRU
Ranges 5, 6, 7, 8, 9, 10, 11 & 12 E.

Gila and Salt River Base and
Meridian,

ARIZONA.

By Louis Wolfley, D. S., under
Contract dated February --1885.
Survey commenced April 16, 1885.
Survey completed 18

31	R.	33	5	34	E.	35	36
96	94	92	91	88	86		
6	4	R.	4	6	3	E. 2	36
31	3	33	34	34	35	35	36
83	81	79	77	75	73		
6	5	4	3	7	34	E. 2	36
31	32	R. 33	34	34	35	35	36
90	68	66	65	63	61		
6	4	R.	4	8	34	E. 2	36
31	3	33	34	34	35	35	36
58	59	56	54	53	51		
6	5	4	3	9	34	E. 2	36
31	3	33	34	34	35	35	36
48	49	45	43	42	40		
6	5	R.	4	10	34	E. 2	36
31	32	33	34	34	35	35	36
36	34	32	29	28	25		
6	5	R.	4	11	34	E. 2	36
31	32	33	34	34	35	35	36
23	20	19	17	15	13		
6	5	R.	4	12	34	E. 2	36
31	32	33	34	34	35	35	36
11	9	7	5	5	3		
6	5						
31	32						

Society

Augt

2

13

25

41

51

63

75

86

100

Preliminary Oaths of Assistants.

We..... R. Garrison

and..... John Hawkes

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 accordance with instructions given us in the survey of the

4th Stand S. through Range

5-6. 7. 8. 9. 10. 11 & 12 E. and 2nd

Guide Meridian Through Thre.

20. 19. 18. 17 & 16 S.

of the principal base and meridian in the Territory of Arizona.

R. Garrison Chainman.

John Hawkes Chainman.

Subscribed and sworn before me, this 16th
day of April 1885

Lewis Woffley
Notary Public.

We Wilson R. Kerr, Thomas Mc-

Sworn, to Hugh Scanlon

do solemnly swear that we will well and truly perform the
the duties of Marker. Flagman

are man

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 4th Stand S. through
Ranges. 5, 6, 7, 8, 9, 10, 11 & 12 E and
2nd Litude Meridian through
Tps. 20, 19, 18, 17 & 16

of the principal base and meridian in the Territory of Arizona.

Wilson R. Kerr
Thomas McSwain
Hugh Scanlon

Subscribed and sworn to before me this

day of

April 16th 1885

Amst. Wolfley
Notary Public.

BOOK
Preliminary Oaths of Assistants.

We..... W. A. McCarty
and..... T F Hackett

do solemnly swear that we will well and faithfully execute
the duties of Chain Carriers; that we will level the chain over
even and uneven ground, and plumb the tally pins, either by
sticking or dropping the same; that we will report the true dis-
tance to all notable objects, and the true length of all lines that
we assist in measuring, to the best of our skill and ability and
in accordance with instructions given us in the survey of the
4th Stand S. through Ranges
5, 6, 7, 8, 9, 10, 11 & 12 E. and
the 2nd Guide Meridian
through Thos. 9, 10, 19, 18, 17 & 16 S.
of the principal base and meridian in the Territory of Arizona.

W. A. McCarty Chainman.

T F Hackett Chainman.

Subscribed and sworn before me, this 16th

day of April 1885

Lewis Wolley
Notary Public.

We.....

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

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

of the principal base and meridian in the Territory of Arizona.

Subscribed and sworn to before me this.....
day of 188.....

..... Notary Public.

The instrument used in this survey, was a solar transit made by Young & Sons. of Philadelphia
Penn. Carefully tested on the Tucson Meridian the 15th day of April, and found to be correct.

35°

29

d.

N. face

BOOK 1494
1981

Resurvey of the 4th R.
South two Counter
Court No 98

4th Stand Parallel S. through R 12 East
Pages 3 to 13.

4th Stand Par. S. through R 11 East
Pages 13 to 25.

4th Stand, Par. S through R 10 East,
Pages 25 to 39.

4th Stand Par. S. through R 9 East
Pages 40 to 57.

4th Stand Par. S through R 8. East
Pages 57 to 61.

4th Stand, Par. S. through R 7. East
Pages 61 to 73.

4th Stand Par. S. through R 6. East
Pages 73 to 83.

4th Stand, Par. S. through R 5. East.
Pages 86. to 100.

Fourth Stand Par S. through R 12 E.

Chains

Beginning at the stand cor. to Tps
20 S. R 12 & 13 E. which is a post 4 ins.
sq. firmly set in the ground marked
S. C. T 20 S. on N. R 13 E. stone on E.
and R 12 E. S 36 on N. faces with
6 notches on N. E. & W. faces, and
set N. E. & W. of post 6 ft. dist.
and mound of earth around
post.

Fence Run

West on S. bdy of Sec. 36,

Va 12° 30' E.

- | | |
|-------|--|
| 27.00 | Descend abrupt bank at an angle of 35° |
| 29.00 | Enter creek bottom. |
| 37.00 | Cross Dry Wash course N. E. |
| 40.00 | Set a lime stone 14x10x14 ins 9
ins. in the ground for stand,
1/4 sec. cor. marked S.C. 1/4 on N. face |

Fourth Stand. Parallel South

hair

and raised a mound of stone
alongside from which
A Musquite tree 8 ins. in diam
bears at N. 15° E. 25 links dist.
marked S.C. 1/4 S.B. T.

11.00

Gross. Dry Wash course N.E. and
ascend slope at an angle of 5°
Set a Limestone stone 16x12x4 ins. 11 ms.

0.00

in the ground for cor. to Secs.
35 & 36 marked S.C. with 1 notch
on E. and 5 notches on W. edges
and raised a mound of stone
alongside.

Surface mountainous
Soil stony & 4th rate
grass thin

through Range 12 East

Shanis

West on South bay. of Sec.
Va 12 30 E

- Ascend slope at an angle of
30.00 Top of slope and descend at an angle of 9°
- 36.00 Foot of slope and ascend at an angle of 8°
- 40.00 After making the correct allowance I set a lime stone 8x10x6 in. 11 in the ground for Stand 1/4 Sec or marked S.C. 1/4 on N. face, dug 18x18x12 in. E & W. of stone 5 $\frac{1}{2}$ ft. and raised a mound of earth 1 $\frac{1}{2}$ ft. base alongside.
- 41.00 Top of slope and descend at an angle of 9°
- 57.00 Foot of slope
- 61.00 Cross Dry Wash course N.E. and ascend slope at an angle of 4°

Fourth Stand. Parallel South

Chain
80.00

After making the correct allowance set a sand stone 30x20x5 ins. 21 ins. in the ground for stand cor. to Sec 34 N. marked S.C. with 2 notches on E. and notches on W. edges. dug pit 18x18x12 ft. E. & W. of stone 5 ft. dist. and raised mound of earth 2 ft. high 4 $\frac{1}{2}$ ft base alongside.

Surface mountainous
Soil 4 $\frac{1}{2}$ in. rate + stony
grass thin

West. on south bdg. of Sec. 34
Lat 38° 30' E.

9.00
30.00

Ascend slope at an angle of 45°
Top of slope and descend gradually
Cross dry wash course N. E.

through Range 12 East.

Chains

40.00

Set a Volcanic stone 8x18x14 ins. 11
in the ground for Stand. 1/4 Sec. cor.
marked S.C. 14 on N. face. and raised
a mound of stone alongside.

59.50

Top of slope and descend gradually

72.50

Cross Dry Wash course South.

80.00

After making the correct allowance
I set a Volcanic stone 14x9x5 in.

9 ins. in the ground for Stan-

cor. to Secs 33+34. marked S.C.

with 3 notches on E & W edges and

raised a mound of stone alongside.

From which

A Mesquite tree 5 ins. in diam bear-
ing N 20° W. 60 links dist. marked.

S 20 S. R 12 E. S. 33, B. T.

Surface mountainous

Fourth Stand, Parallel South

chains

Soil $4\frac{1}{2}$ " rale + stony
grass poor
Scattering Mesquite brush

West on South bdry. of sec 33.
Va $12^{\circ} 35' E.$

Ascend gradually

6.00 Ascend slope at an angle of
21.00 Top of rocky spur bears N.E.
 $\frac{1}{2}$ of a mile in length and
descend at an angle of 35°

Foot of slope

40.00 After making the correct
allowance I get a Z line stone
 $24 \times 8 \times 5$ in. 17 in. in the ground
for Stand $\frac{1}{4}$ sec. cor. marked
S.C. $\frac{1}{4}$ on N. face and raised

through Range 12 East

charis

a mound of stone alongside
43.20 Grass Dry Wash course S
50.50 Grass Dry Wash course S.E.
8 che wide and ascend slope at an
angle of 12°

80.00 After marking the corrt allow
I Set a Volcanic stone 21x6x11
9 in. in the ground for. Stand
cor. to Secs. 32 + 33, marked S.
with 4 notches on E. and 2 notches
on W. edge, and raised a mound of stone
alongside.

Surface mountainous
Soil very rocky
grass fair

This mile is through the
Parjarto Mountains

Fourth Stand, Parallel. South

Claims

West on South. lay. of Sec. 32.
Lat 12° 30' E.

- 9.00 Ascend slope at an angle of 12°
Top of divide of the Parfrito
mountains and descend at an
angle of 14°
- 34.00 Cross Dry Wash course S.W. and
ascend slope at an angle of 6°
Top of cliff and descend.
- 38.00 After making the correct allowance
I set a Volcanic stone 2 x 10 x 8
in. 14 in. in the ground for
Stand 1/4 sec. cor. marked S.CW
on N. face. and raised a mound
of stone alongside.
- 43.00 Cross Dry Wash course S. and
ascend slope at an angle of 35°
Top of rocky cliff bears N + S
- 68.00

through Range 12 East.

75.00

and descend at an angle of 35°

Foot of slope and ascend at an angle
of 25°

80.00

After making the correct allowance
delta Volcanic stone 36x 12x10 ms. 21
ms. in the ground for stand, cut
to Secs. 31+32, marked with 5
notches on E. and 1 notch on W.
edges, and raised a mound of
stone alongside. on rocky side
between two rocky peaks of the
Parjaito mountains

Surface mountainous
Soil 4th rate + stony
grass fair

Fourth Stand. Parallel South

chain

West on South bay. of Sec 3
Va 12° 30' E.

- 22.00 Descend slope at an angle of 20°
Foot of bluff and ascend slope
at an angle of 10° along N. face
of ridge bears E & W.
- 38.50 Top of spur and descend.
A mesquite tree 5 in. in diam.
which I marked S & $\frac{1}{4}$ S. on N.
face. for stand. $\frac{1}{4}$ Sec cor. dug
pit $18 \times 18 \times 12$ in. E & W. of tree $5\frac{1}{2}$ ft
dist. and raised a mound of
earth around tree, and continue
to descend slope at an
angle of 10°
- 59.00 Foot of slope and ascend at
an angle of 80°
- 74.00 Top of ridge bears NW & S. E.

through Range 12 East

chains

80.00

After making the correct allowance
I set a Volcanic stone 26x14x12
in., 19 in. in the ground for
Stand cor. to Thos 20 S. R. 11
E. marked S.C. with 6 notches
on N. & W. edges, and raised a
mound of stone alongside
Surface mountainous
Soil very rate & stony
grass fair
Scattering mesquite

The Stand crosses the
Parfianto mountains from East
to West. This range bears
N & S. and breaks into the
valley abruptly two miles North

Fourth Stand Parallel South

larris

of the line. South of the line it spreads to the West. The highest peaks are just North of the line. formation Volcanic. Considerable indications of mineral.

I carefully examined the adjustments of my solar transit to-day particularly the latitude and reversing apparatus and found them correct.

April 18th 1885.

From the Stand cor. to
Sps. 20 S. Re 15° 12' E. just

through Range 11 East

Chain

established by me. From W. on
South bay. of Sec. 36.

V.A. $12^{\circ} 30' E.$.

- 7.00 Descend slope at an angle of 8°
Leave slope and enter Valley.
- 27.00 Leave Valley and ascend slope at
an angle of 12°
- 40.00 After making the correct allowance
I. set a Volcanic stone $14 \times 8 \times 8$ ins.
6 ins. in the ground for Stand $\frac{1}{4}$
Sec. cor. marked S.C.H. on N. face.
and raised a mound of stone
alongside, and continued to ascend
- 45.00 Top of slope and descend at
an angle of 4°
- 50.00 After making the correct allowance
I. set a Volcanic stone $18 \times 12 \times 5$ ins.
13 ins. in the ground for ^{Stand} Cor. to

Fourth Stand parallel south

chains

Secs. 35 & 36 marked. S.C. with
1 notch on E. and 5 notches on
W. edge. and raised a mound
of stone alongside.

Surface mountainous
Soil 4th rate + stony
grass good
Scattering mesquite brush

West. on South boundary of Secs;
Va 12° 38' E.

- | | |
|--------|--|
| 0. 50 | Enter creek bottom |
| 2. 75 | Cross Dry Wash course North
and ascend slope at angle of 7° |
| 38. 00 | Cross Dry Wash course N. and
enter valley. |
| 40. 00 | After making the correct allowance. |

through Range 11 East

chains

I set a Volcanic stone 16x9x5 in.
11 in. in the ground for stand cor
Sec. cor. marked S.C. on N. face
and raised a mound of stone
alongside.

57.00 Lean Valley and ascend slope at
an angle of 4°

61.00 Top of slope bears N & S. and
descend at an angle of 25°

68.00 Cross Dry Wash course N. and
ascend slope at an angle of 25°

74.00 Top of ridge bears N & S.

80.00 After making the correct allowance

I set a Volcanic stone 18x10x6 in. 13
in. in the ground for stand cor
to Secs. 34 & 35 marked S.C. with
2 notches on E. and 4 notches
on W. edges. and raised a mound

Fourth Stand Parallel South

chains

of stone alongside.

Surface mountainous
Soil 4th rate + stony
grass good
Scattering mesquite brush

West on Southbdy. of sec 34.
Va 12° 30' E

Descend slope at an angle of 10°
Cross Dry Wash course N and ascend
slope at an angle of 9°

Top of ridge bears N+S. and
descend slope at an angle of 5°
Foot of slope

Ascend slope at an angle of 4°
After making the correct allowance
I set a Volcanic stone 18x10x6 in.

10.00

17.00

28.00

30.00

40.00

through Range 11 East

Chains

- 39.75 8 ins. in the ground for Stand "4 sec
co. marked S.C. 1/4 on N. face. and
raised a mound of stone alongside.
- 80.00 Top of ridge bears N.E. & S.W. and
descend over rolling ground.
After making the correct allowance
I set a volcanic stone 18x10x8 ins.,
8 ins. in the ground for Stand co.
to Secs. 33 + 34. marked S.C.
with 3 notches on E & W. edges.
and raised a mound of stone
alongside.

Surface mountainous
Soil 3rd rate + stony
grass good

Fourth Stand, Parallel South

chains

West on South bdy. of sec. 33,
Va 12° 30' E.

Descend over rolling ground
cross Dry Wash course N.
Set a Volcanic stone 12x8x8 in.
7 in. in the ground for stand.
1/4 sec. cor. marked S.C. 1/4 west.
face. dug pits 18x18x12 in. SW.
of stone 5 1/2 ft. dist. and raised
a mound of earth 1 1/2 ft. high
3 1/2 ft. base alongside.

Enter Valley bear N.E + S.W.
Set a Volcanic stone 18x18x7 in.
3 in. in the ground for stand.
cor. to Secs. 32 + 33, marked S.C.
with 4 notches on E. and 2
notches on W. edges. dug pits
18x18x12 in. N.E + W. of stone 5 1/2 ft.

22.75
+ 0.00

74.50
+ 0.00

through Range 11 E.

charms

dist. and raised a mound of earth 2 ft. high $4\frac{1}{2}$ ft. base alongside

Surface level
Soil $3\frac{1}{2}$ ft. rate
grass good

West on South lay. of Sec. 32.
VA 12 3016

2,75

In Valley bears N.E. + S.W.
Cross road bears N.E. & S.W.
Cerro Colorado mountains bears
N.E. $1\frac{1}{2}$ miles dist. from this
point on the road, Ponderosa
station bears S. W. $3\frac{1}{2}$ miles
dist. and Pedro Aguirre
ranch bears North $\frac{1}{2}$ miles dist.

Fourth Stand Parallel South

chains

from the same point.

3.00

Cross Dry Wash course N.
Lean Valley bears N.E + S.W.
Cross low divide and enter
valley bears N.E + joins the
other valley 10 ebs. N.

10.00

Set a Volcanic stone 12x8x5-
in. 7 in. in the ground
for Stand $\frac{1}{4}$ Sec. cor. marked
S.C $\frac{1}{4}$ on N. face, dug pit
18x18x12 in. E + W. of stones $\frac{1}{2}$ ft.
dist. and raised a mound
of earth $\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
alongside.

15.00

Lean Valley bears N.E + S.W.
and ascend over rough ground.
Set a Post. 4 ft. long 4 in. eq.
with marked stone 12 in. in

0.00

through Range 11 East.

chains

the ground for stand cor. to Secs
31 + 32 marked S. E. T20 S. R11E.
on N. S32 on E. and S31 on W.
faces with 5 notches on E. and 1
notch on W. faces, dug pits 18 x 8
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. from which

A mesquite tree 10 ins. in diam
bears N 1° E. 15 links dist. marked
T20 S. R11E. S32, B, T,

A mesquite tree 10 ins. in diam
bears ~~N 1° E.~~ 150 links dist. marked
marked T20 S. R11E. S31, B, T,

Surface rolling
Soil 4th rate
Good grass

Fourth stand, Parallel South

Chains

Scattering brushWest, on South bdg. of
Sec 31.Lat $12^{\circ} 30' E.$

Ascend over rolling ground.
 Set a Volcanic stone $2 \times 1 \times 1\frac{1}{2}$
 in. 17 in. in the ground
 for. Stand, $\frac{1}{4}$ Sec. cor. marked
 S.C $\frac{1}{4}$ on N. face and raised
 a mound of stone alongside
 Cross Dry Wash course East
 and enter Valley bears Easterly
 Leave valley and cross low
 divide.

78.00

Enter same Valley bears Easterly
 Set a Volcanic stone $1 \frac{1}{2} \times 1 \times 5$

80.00

through Range 11 East

chamis

ins. 30 ins. in the ground for
Stand. cor. to Tps. 20 S. R 10 + 11 E.
marked S.C. with 6 notches
N. E & N. edges. and raised a
mound of stone alongside
30 links S. of Dry wash
from which

An Oak tree 16 ins. in diam
bears N 5 $\frac{1}{4}$ $^{\circ}$ E. 331 links dist.
marked T20 S. R 11 E. 831. B. T.

An Oak tree 14 ins. in diam bears
N 7 $\frac{1}{4}$ $^{\circ}$ W. 215 links dist. marked
T20 S. R 10 E. 836. B. T.

Baboquivari peaks bears N 64 $^{\circ}$ 26 $^{\prime}$
Peak of the Cerro Colorol bears North.

The Stand crosses the East
face of the Cerro Colorol mountain
surface rolling

Fourth Stand. Parallel South

hains

Soil 3rd rate
grass poor

The Standard runs over mostly rolling country.

The grass is very good, and the soil is 3rd rate,

There is no water along the line just surveyed..

The Cens colorado Mountain bear North of the West end of the Parjaito range

From the Stand cor. to Tps.
20 S. Rs, 10 + 11 E. just established by me. I run N. on South

through Range 10 East

chains

bdy of Sec. 36.

Naz 12° 30' E.

- Along bank of creek
cross Dry Wash course easterly and
ascend over rolling ground.
Deposited a marked stone ^{stand} 2 ins.
in the ground for 4 sec cor.
dug pit 18x18x12 ins. E & W. of stone
5th 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 ft. long 2
ins. sq., 12 ins. in the ground marked
S.C."N on N. face
57.30 Arivaca mountain bears S78°29'W.
from this point
Set a Volcanic stone 12x8x6 ins. 7
ins. in the ground for stand.
cor. to Secs. 35 & 36. marked S.C.

Fourth Stand. Parallel. South

hains

with 1 notch on E. and 5 notches on W. edges. dug pits 18x18x12 ins. At S.E. & N. of stone 5½ ft. dist. and raised a mound of earth 2 ft. high 4½ ft. base alongside.

from which

A mesquite tree 6 ins. in diam bears S. 54° W. 30 links dist. marked T20 S. R 10 E.

S 35; B.S.T.

Surface rolling
Soil 2¹⁰/₁₁ to 3¹/₂ feet

Good grass
Scattering mesquite brush

through Range 10 East.

Chains

West on South bdg. of Sec. 35
Aug 13th

Ascend over rolling ground
Cross Altar road bears N. E. 89°
Deposited a marked stone 12 ins. in
the ground for Stand. $\frac{1}{4}$ sec cor. along
fins 18x18x12 ins E & 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 over it.
In E. fin drove a stake 2 ft. long
2 ins sq. 12 ins. in the ground
marked S. E. $\frac{1}{4}$ S. on N. face
Set a Volcanic stone 14x12x10 ins. 9 ins. in
the ground for Stand. Cor. to Sec. 34 & 35
marked S. E. with 2 notches on E. and
4 notches on W. edges and raised a
mound of stone alongside
on front of knoll.

80.00

Fourth Stand. Parallel. South

hains

Surface rolling
 Soil $2\frac{1}{2}$ " to $3\frac{1}{2}$ " rate

grass poor

Scattering mesquite brush

West on South ldy. of
 Sec. 34.

Va $13^{\circ}E.$

2.33
 10.00
 Descend gradually
 Set a Volcanic stone 16x12x10 in.
 9 in. in the ground for stand,
 $\frac{1}{4}$ Sec. cor. marked S. 6. $\frac{1}{4}$ on
 on face, and raised a mound
 of stone alongside. and cross
 Dry wash course North
 Jose Rios house bears S. 6 chs

through Range 10 East

Chamis

dist from this point.

57.00 Enter creek course N.E.

55.00 Leave " "

56.00 Enter corral

53.30 Leave corral, a house bears 1/ Chamis, dist. from this point.

50.00 Set a Volcanic stone 28x12x8
in. 20 in. in the ground for
stand cor. to Secs. 33 + 34. marked
S. E. with 3 notches on E + W. edge
and raised a mound of stone
alongside.

Surface rolling

Soil $2 \frac{1}{2}$ " to $3 \frac{1}{2}$ " rate

Good grass

Scattering Mesquite brush

Fourth Stand, Parallel South

hains

West on South bay, of Sec. 33.
Lat 13° E.

Ascend gradually

+ 0.00

Set a Volcanic stone 12x7x7
in. & in. in the ground
for Stand $\frac{1}{4}$ Sec. cor. marked.
S. 6 $\frac{1}{4}$ on N. face and raised
a mound of stone alongside.

There is a road bears E & W
15-0 links N. from this point
from River to Sanders &
Aravaca

+ 0.30

Cross road bears N. E & S W.
It intersects the E & W. road
5 chs North.

+ 3.00

Cross Dry Wash course S-E.

+ 2.00

Ascend slope at an angle of 10°
Sanders house and barley

+ 2.00

through Range 10 East

hains

field bears S $\frac{1}{4}$ mile dist. from
this point.

67.00 Top of round point and descend
slope at an angle of 8° .

A mine and pump bears
South $\frac{1}{3}$ of a mile dist. from
this point

81.00 A sand-stone in place. 20x18
in. above the ground which I
marked with a cross (+) at exact
cor. point. for. Stand cor. to Sec.
32 & 33. marked S.E. with 4 notches
on E. and 2 notches on W. edges,
and raised a mound of
stone alongside. from which
an Oak tree 10 ins. in diam
bears N 10° E. 90 links dist.
marked T 20 L R 10 E. S 33. B. T.

Fourth Stream Parallel South

chains

Surface 40 chs mountainous
" 40 chs level
Soil 3rd to 4th rate
grass good

West on South bdy. of
sec. 32.

Ya 13° E

Descend slope at an angle of 8°
Cross Dry Wash course N.
Top of ridge bears N.E. and
descend slope at an angle of
of 15°

Foot of slope and ascend
slope at an angle of 15°
Top of spur bears N.E. & S.W.
and descend at an angle of 18°

9.50

16.00

28.00

34.00

through Range 10 East.

chains

40.00

After making the correct allowance
I set a Sand Stone 18x12x12 ins
11 ins. in the ground for Stand $\frac{1}{4}$
Sec. cor. marked S. E. $\frac{1}{4}$ on N.
face. and raised a mound
of stone alongside. from which
A Mesquite tree 5 ins. in diam
bears N 40° E. 140 links dist.
marked S. E. $\frac{1}{4}$ S. B. T.

43.20

Cross Dry Wash course N. and
ascend slope at an angle of 12° of the
Gijas mountains

65.00

Top of spur bears N+S and descend
at an angle of 18°

71.00

Cross Dry Wash course N. E.
and ascend slope at an angle of 12°

80.00

After making the correct allowance.
I set a Sand stone 18x12x6 ins. 11 ins.

Fourth Stand. Parallel South

hains

in the ground for stand.
 Log 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.

Surface mountainous
 Soil 4th rate
 Grass good,
 Scattering Mesquite trees

West on South bay of
 Sec. 31

Alt 13° C.

Ascend slope at an angle
 at 32°

Top of round point bears

4,550

through Range 10 East

hairs

N.E. and descend

\$7.40

Foot of slope and ascend at an angle
of 15°

\$10.00

After making the correct allowance
I set a granite stone $14 \times 8 \times 8$ ins. high
in the ground for stand. $\frac{1}{4}$
Sec. cor. marked S.E. $\frac{1}{4}$ on N.
face and raised a mound of
stone alongside.

\$74.00

Top of main range of the Gijas
mountains and descend.

\$8.00

along steep slope of loose slide rock
the Standard to The 20 S. Range
9+10 E. falling in slide rock
where a durable corner could not
be established I proceed on same
course and at

\$5.00

I set a granite stone $24 \times 18 \times 6$ in.

BOOK 1454

Fourth Stand. Parallel South

hains

17 ins. in the ground for
Witness cor. to The 20 S.
Rs 9 & 10 E. marked W. b
with 6 notches on N. E. & W.
edges. and raised a mound
of stone alongside.

The cor. is on south
spur bearing S. W.

East of this point is a
steep south slope of loose
slide rock.

Sugar loaf peak bears $88^{\circ} 30' W.$
which is a shaft of granite
rock 1850 ft. high from base
to peak, as shown by my
instrument

Peak of the Gijas bears $1145^{\circ} E$

through Range 10 East.

chains

Surface mountainous
Soil 4th rate
Some grass

The Gijae mountains bears
N & S. and break into the valley
about three miles North of the
line, on the South they bear
to the east, the highest peak
is in the Northern range,
Anivaca Creek rises in the S.E.
and runs N.W. separating the
Gijae mountains from the
range South of it.

April 28th 1885

Fourth Stand Parallel South

chains

From the Witness cor. to
 The 20 S. Rs 9 + 10 E. just
 established by me. I run
 West on S. Idy. of Sec. 36.
~~W 13° E.~~

- | | |
|-------|--|
| 4.00 | Foot of slope and cross Dry Wash course S.W., and ascend slope at an angle of 15° |
| 4.00 | Top of slope and descend at an angle of 30° |
| 30.00 | Foot of slope and cross Dry Wash course S.W., and ascend slope at an angle of 10° |
| 4.00 | Top of slope and descend at an angle of 12° |
| 5.00 | After making the correct allowance. I set a granite stone |

through Range 9 East

chain

18x6x4 ms. 11 ins. in the ground
for Stand $\frac{1}{4}$ Sec. cor. marked
S. S. $\frac{1}{4}$ on N. face and raised a
mound of stone alongside.

13.50

Cross Dry Wash course S.W.
and ascend slope at an angle
of 15°

18.00

Top of slope and descend at an
angle of 10°

75.00

After making the correct allowance
I set a granite stone 24x10x6
viz. 17 ins. in the ground for
Stand. cor. to Secs. 35 + 36. marked
S. E. with 1 notch on E. and 5
notches on W. edges and raised a
mound of stone alongside.

Surface mountainous
Soil 4th rate & rocky

Fourth Stand, Parallel South

hains

grass good.

West on South bdy. of sec.
35°.

at 13° E.

Descend slope at an angle
of 10°Foot of slope and descend
over rolling groundCross Dry Wash course S.W.
Set a granite stone 30x12x8
in. 21 in. in the ground for.Stand $\frac{1}{4}$ Sec. cor. marked
S.E. $\frac{1}{4}$ on N. face. and
raised a mound of stone
alongside; and continue to
descend over rolling ground.

through Range East.

Chain

20.00

Set a granite stone 18x12x6 in. 12
in. in the ground for Stand
cor. to Secs. 34 & 35 marked S. b.
with 2 notches on E. and 4 notches
on Wedges. and raised a mound
of stone alongside.

Surface mountainous
Soil 4th rate & stony
Good grass

West on South bdy. of Sec. 34,
Alt. 308.

Continue to descend over broken
ground.

40.00

Set a granite stone 24x6x6 in.
17 in. in the ground for Stand
1/4 Sec cor. marked S. b. "W. on N. face

Fourth Stand. Parallel South

chains

dug pits 18x 18x 12 in. E 8 W.
of stone 5 1/2 ft. dist. and
raised a mound of earth
1 1/2 ft. high 3 1/2 ft. base alongside.
Set a Post 4 ft. long 4 in.
sq. with marked stone 12 in.
in the ground for stand
Cor. to Secs. 33 & 34. marked
S. 6. T 20 S. R 98. on N.
S 34 on E. and S 33 on W.
faces with 3 notches on E & W.
edges. dug pits 18x 18x 12 in
W. 8 f. W. of Post 5 1/2 ft. dist.
and raised a mound of
earth 2 ft. high 4 1/2 ft. base
around post. from which
A. Mesquite tree 12 in. in diam
bears N 79° W. 96 links. dist.

through Range 9 East.

chain

marked S. 6. T 20 S., R 96. S 33, B. T.

Surface rolling

Soil 4th rate

Good grass

West on South bay. of Sec. 33,
Va 13° E

Descend gradually

Cross road bears N + S.

leading to a ranch about 3 miles
S.E. of this point.

Entered Arivaca Creek Valley course N.

Cross arivaca Dry Wash course N.

Set a Post 3 ft. long 3 in. sq. with
marked stone 12 in. in the ground
for Stand $\frac{1}{4}$ sec. cor. marked S. 6 $\frac{1}{4}$
S. on N. face. dug pits 18x18x12 in. E + W.

7,50

19,00

25,00

40,00

Fourth Stand Parallel South

chains

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,
from which

A mesquite tree 10 ins. in
diam bears North 10 links dist.
marked S.B. $\frac{1}{4}$ S.B.T.

48.50 Cross Dry Wash consist.
50 links wide and ascend
out of valley.

49.00 Foot of Bluff and ascend
slope at an angle of 30°

51.25 Edge of mesa and descend.

75.00 Cross road bears N+S.

80.00 Set a granite stone 24x12
x 6 ins. 17 ins. in the ground
for Stand. cor. to Secs. 32+33,
marked S.B. with 4 notches

through Range & East.

chain

on E. and 2 notches on W. edges.
and raised a mound of stone
alongside.

Surface rolling
Soil $3\frac{1}{2}$ " to $4\frac{1}{2}$ " rate
Good grass

West on South bdy. of
Sec. 32.

VA 13° E.

Continue to descend over rolling
mesa.

18.90 Gross road bears N. W. + S. E.
40.00 Set a granite stone 24x24x6 ins. 7 ins.
the ground for Stand. $\frac{1}{4}$ sec. cor.
marked S. E. $\frac{1}{4}$ on N. face. and raised a
mound of stone alongside.

Fourth Stand Parallel South

chains

9.00

0.00

Cross trail bears N.W + S.E
Set a granite stone 16x10x8 in. 11
in. in the ground for stand cor.
to Secs. 31 & 32 marked S.E. with
5 notches on E. and 1 notch on W.
edges. and set a boulder 2 ft in
diam for monument alongside.

Surface rolling mesa

Doll 3rd to 4th rate

grass line

West on South bay. of Sec. 31.
Wa 13° E.

Over rolling mesa.

40.00

Set a granite stone 30x12x
6 in 21 in. in the ground
for Stand 1/4 Sec. cor. marked

through Range 9 East.

charni

S. E. $\frac{1}{4}$ on N. face. and raised a mound
of stone alongside

41.50

Edge of mesa and descend into valley

47.00

Enter Valley bears N. E. & S. W.

50.00

Set a Post 4 ft. long 4 mrs. sq.
with marked stone 12 mrs. in the
ground for Stand cor. to Ths. 20S.
Rd. 8t9^E, marked S. E. T20S. on
N. R9^E₃₃ on E. and R 8^E₃₆ on W. faces
with 6 notches on N. E. & W. faces.

dug pits $2\frac{1}{2} \times 18 \times 12$ mrs. cross-wise
on each line. N. E. & W. of Post 6
ft. dist. and raised a mound of
of earth $2\frac{1}{2}$ ft. high 5 ft. base
around post.

Baboquivari peak bears $N 38^{\circ} 25' E$,
Cerro Colorol " " $N 66^{\circ} 12' W$.
Sugar loaf " " $S 89^{\circ} W$.

Fourth std Par. S. through R & East.

chain

A field of barley on foot
hills bears N 5° W. about 4
miles. dist.

Surface rolling mesa.
Soil 3^{rd} to 4^{th} rate
grass fine
Scattering mesquites ^{brush} rocks
No mesquite brush ..

The Eastern part of this
township is mountainous,
The Western part is rolling.
The grass is fine, and the
soil is mostly 3^{rd} to 4^{th} rate.
There was no water at the
time of the survey.

Considerable evidence of minerals

Fourth Std, Par S. through R & East.

chains

in the mountain portion.

From the Stand, C. or. to Ths.
20 S. Rs 88 9 E. just established by me
I run West in South lay. of Sec. 3
Va 13° E.

1.25 Cross road bears N. E. & S. W.
leading to a house 3 miles S. W. from
this point.

40.00 Deposited, a marked stone 12 ins.
in the ground for $\frac{1}{4}$ Sec. cor. dug full
18 X 12 ins. E & 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 over it. On E.
pit drove a stake 2 ft. long 2 ins. wide
12 ins. in the ground marked "4. S. or
N. face.

Fourth Stand. Parallel South

locating
S. S. O.

Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins in
the ground for stand. cor.
to Sec. 35 & 36. marked S. 6.
T20 S. R 8 E. on N. S36 on E.
and S 35 on W. faces with 1
notch on E. and 5 notches on
W. faces, dug pits 18x18x 12
ins. N. E. & N. of frost 5 ft.
dist, and raised a mound
of earth 2 ft. high 4¹/₂ ft.
base around frost.

Surface rolling
Soil 3¹/₂ to 4¹/₂ feet
grass fair

through Range 8 East,

claims

West on South bdy. of Sec. 35
Off 13° E.

Ascend gradually.

40.00

Deposited a marked stone 12 ins
in the ground for $\frac{1}{4}$ Sec. cor,
dug pit 18x18x12 ins, E & 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 ft. long 2 ins. sq. 12 ins. in the
ground marked S. E. $\frac{1}{4}$ S. on N
face.

81.00

Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins. in the
ground for Stand. cor. to Secs. 34 &
35 marked S. E. T 20 S. R 8 E. on
it. S 35 on E. and S 34 on W. faces
with 2 notches on E. and 4 notches

Fourth Stand. Parallel South

hains

on W. faces, dug pits 18
x 18 x 12 ins. N. E + W. of frost
5 $\frac{1}{2}$ ft. dist. and raised a
mound of earth 2 ft. high
4 $\frac{1}{2}$ ft. base around frost.

Surface rolling
Soil 3 $\frac{1}{2}$ to 4 $\frac{1}{2}$ in.
grass fine

West on South Bay. of S. 34.
Pa 13° E.

Ascend gradually

10.00
Deposited a marked stone
12 ins. in the ground for
Stand 4 $\frac{1}{2}$ sec. cor. dug pits 18 x 18
x 12 ins. E + W. of frost 5 $\frac{1}{2}$ ft.
dist. and raised a mound of

through Range S East.

having

earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base over it.
In E. pit drove a stake 2 ft. long
2 ins. sq. 12 ins. in the ground
marked S. b. $\frac{1}{4}$ S. on N. face.

Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins. in the
ground for Stand. cor. to Secs.
33 & 34. marked S. b. T20 S. R 8E.
on N. S 34 on E. and S. 33 on W.
faces with 3 notches on E & W.
faces, dug pit 18x18x12 ins. N.E.
 $\frac{1}{4}$ 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

Surface rolling

Silt $3\frac{1}{2}$ " to 4" th rate

grass fine

Fourth Stand. Parallel. South

harris

West on South bd. of Sec. 33.
Va 13° E.

Ascend gradually.

40.00

Deposited a marked stone 12 in.
in the ground for Stand. 1 $\frac{1}{4}$
Sec. cor. dug pit 18x18x12 ins. E & 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. Tie. pit
drove a stake 2 ft. long 2 ins. sq. 12
ins. in the ground marked S.E. N.E.
on face.

0.00

Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins. in
in the ground for Stand. cor.
to Secs. 32 & 33. marked S. E.
T 20 S. R 8 E. on N. S. 33 on E.
and S 32 on W. face with

through Range & East.

Lam

4 notches on E. and 2 notches on W.
faces, dug pits 18x18x12 ins. at E & 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.

Surface. rolling
Soil 3 $\frac{1}{2}$ " to 4 $\frac{1}{2}$ " late
Grass fine

West on South bdg. of Sec. 32.

Pa 13° E.

Ascend gradually.

10.00 Deposited a marked stone 12
ins. in the ground. for Stand. 1 $\frac{1}{4}$
Sec. cor. dug pit 18x18x12 ins. E & W.
of Cor. 5 $\frac{1}{2}$ ft. dist. and raised a
mound of earth 1 $\frac{1}{2}$ ft. high 3 $\frac{1}{2}$

Fourth Stand Parallel South

charms

80.00

base over it. In E. pit drove
a stake 2 ft. long 2 ins. sq.
12 ins. in the ground
marked ^{S. b.} $\frac{1}{4}$ S. on N. face
Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins. in
the ground for Stand. cor. to
Secs. 31 & 32. marked S. b. D. No.
R. S. 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 pit 18x18x12 ins. N. E. & N. of
frost. 5 $\frac{1}{2}$ ft. dist. and raised
a mound of earth 2 ft. high
 $4\frac{1}{2}$ ft. base around frost.

Surface rolling

Soil 3rd to 4th rate.

Grass fine.

through Range & East

chains

West on South side of Sec. 31
Va 13° E.

Ascend gradually.

40.00 Deposited a marked stone 12 in
in the ground for Stand $\frac{1}{4}$ Sec. cor.
dug pits 18x18x12 in. E & 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 north
On E. pit drove a stake 2 ft. long 2 in.
sq. 12 in. in the ground marked S
 $\frac{1}{4}$ S. on N. face.

80.00 Set a Post 4 ft. long 4 in. sq. with
marked stone 12 in. in the ground for
Stand. cor. to Twp 20 S. Rg 78 E
marked S. C. Twp 20 S. on N. R 8 E. S 31
on E. R 78. S 36 on W. faces with 6
notches on N. & W. faces. dug pits
18x18x12 in. N. & W. of post 6 ft. dist.

Fourth Stand, Parallel South

chains

cross-wise on each line and raised
a mound of earth $2\frac{1}{2}$ ft. high
5 ft. base around frost.

Sugar loaf peak bears $88^{\circ}30'N.$,
Boboguivati peak bears $N7^{\circ}8'W.$
Cerro Colotol $N73^{\circ}31'E.$

This same peak bears
due north of Corinto, $10+11^{\circ}E.$

Surface rolling

Soil $3\frac{1}{2}$ to 4 ft. rate

Grass fair

+
There is pine grass for miles
N.E. of the line, but no trees
and no brush,

The soil is poor, and
no water was seen on the

through Range & East

Charlie

surface, but by appearance it could be had by sinking a few feet.

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

April 21st 1885 -

From the Stand. cor. to Twp 20 S., R. 7 & 8 E. just established by me. From West. on South boundary Sec. 36

N.W. 13° E.

Fourth Stand Parallel South

chains

40.00

Deposited a marked stone 12
ins. in the ground for Stand
 $\frac{1}{4}$ Sec. cor. dug pit 18x18x12 ins.
E & 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 over it. In E.
pit drove a stake 2 ft. long 2 ins.
sq. 12 ins. in the ground marked
S. 6. $\frac{1}{4}$ S. on N. face.

80.00

Set a Post 4 ft. long 4 ins.
sq. with marked stone 12
ins. in the ground for stand
cor. to Secs. 35 & 36. marked S. 6
T 20 S. R 7 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 pit 18x18x12 ins. N. E. 18
of post. 5 $\frac{1}{2}$ ft. dist. and raised a

through Range 7 East

chains

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

Surface rolling
Soil 3rd to 4th rate
grass fine

West on South bdg. of sec. 35
 $\frac{1}{2} \text{ mi. E.}$

- | | |
|--------|---|
| 31.50 | Cross Dry Wash course S.E. |
| 33.50 | Cross. trail bears N+S. |
| 38. 00 | Cross. trail bears NW+S.E. |
| 40.00 | Deposited a marked stone 12 in.
the ground for ^{Stand} $\frac{1}{4}$ Sec. cor, dug from
18x18x12 in. $\frac{3}{4}$ W. of stone 5 th ft. dist.
and raised a mound of earth 1
ft. high $3\frac{1}{2}$ ft. base over it. In
it drove a stake 2 ft. long 2 in. |

Fourth Stand Parallel. South

chains

80.00

12 ins. in the ground
marked S. 6 $\frac{1}{4}$ S. on N. face
Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins. in
the ground for stand cor. to
Ses. 34 & 35. marked S. 6.

T 20 S. R 78. on N. S 35 on E.
and S 34 on W. faces with
2 notches on E. and 4 notches
on W. edges, dug pits 8x18x12
ins. N. & W. of post, ~~12~~
ft. dist. and raised a mound
of earth 2 ft. high 4 $\frac{1}{2}$ ft.
base around post.

Surface rolling
Soil 3 $\frac{1}{2}$ to 4 $\frac{1}{2}$ " rate
grass fine

through Range 7 East.

chains

West on South bay. of Sec. 34,
Va 13° E.

Ascend gradually
40.00 Deposited a marked stone 12 ins.
in the ground for Stand 44 Sec. cor.
dug pits 18x18x12 ins. E & 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
over it. In E. pit drove a stake
2 ft. long 2 ins. sq. 12 ins. in
the ground marked S. E. $\frac{1}{4}$ sec.
N. face.

80.00 Set a slate stone 16x10x5 ins. 11
ins. in the ground for Stand
cor. to Secs. 33 & 34. marked S. E.
with 3 notches on E & W. edge
dug pits 18x18x12 ins. E & W. of
stone $5\frac{1}{2}$ ft. dist. and raised a

Fourth Stand. Parallel South

chains

mound of earth 2 ft. high
4 $\frac{1}{2}$ ft. base alongside.
from which

A Mesquite tree 8 ins. in diam.
bears N $38^{\circ} E.$ 25 links dist
marked T20 S. R7E. S34, B.T.

A Mesquite tree bears N $40^{\circ} W.$
180 links dist. marked,
T20 S. R7E. S33, B.T.

Surface rolling

Soil 3 $\frac{1}{2}$ to 4 $\frac{1}{2}$ rate

Grass fine

West on South bdg. of S33.
N $13^{\circ} E.$

Ascend gradually.

Ascend slope at an angle of 10°

4.50

BOOK 1494
through Range 7 East.

Chains

36.00

Ascend slope at an angle of 20°

40.00

After making the correct allowance
I set a slate stone 30x86 ins. 9
ins. in the ground for stand 11
Sec. cor. marked S.C. $\frac{1}{4}$ out. face
and raised a mound of stone
alongside, on steep S. slope.

A spring of water in a gulch
bears South 3 chs. dist. from
this point. ascend slope at
an angle of 35°

65.00

Top of main ridge of the
Baboglivari mountains bears
N+S.

Sugar loaf peak bears S. about
5 chains dist. and descend
slope at an angle of 18°
Foot of slope

78.00

Fourth Stand. Parallel. South

Chains

80.00

After making the correct allowance I. Set a slate stone 25" x 12 x 6 ins. 17 ins. in the ground for stand cor. to Secs. 32 & 33, marked with 4 notches on E. and 2 notches on W. edges. and raised a mound of stone along side.

Surface mountainous
Soil 4th rate & rocky
grass good

West on South bdg. of S32
Aug 13th 18.

On ridge bearing E + W.
Descend slope at an angle

26.00

through Range 7 East.

Chains

of 28°

36.50

Cross Dry Wash course SSW and ascend slope at an angle of 20°

40.00

After making the correct allowance I set a slate stone $26 \times 8 \times 7$ ins.

19 ins. in the ground for stone

$\frac{1}{4}$ Sec. cor. marked S.L. $\frac{1}{4}$ on N face. and raised a mound of stone alongside, and continue to ascend slope at an angle of 20°

60.00

Top of slope and descend at an angle of 50°

68.00

Foot of slope and along steep and rocky side hill.

80.00

After making the correct allowance

A black rock in place 18×18 in above the ground which I marked S.L. with a cross (+)

Fourth Stand Parallel South

chains

at exact cor. point. for stand
cor. to Secs. 31 + 32. with 5
notches on E. and 1 notch
W. edge. and raised a
mound of stone alongside
on black rock point.

Surface mountainous
Soil rocky
grass fair

West on South day.
of Dec. 31.

W. 13° E.

Along steep South slope
Descend slope at an angle
of 25°

7.00

Footh of slope and cross dry

through Range 7 East.

charnic

wash course S. W.

35.00

Ascend slope at an angle of 15°

40.00

After making the correct allowance. I set a granite stone 18×10 ins. 11 ins. in the ground for stand. $\frac{1}{4}$ y sec. cor. marked S. E. on N. face. and raised a mound of stone alongside.

43.50

Top of slope bears E & W. and descend slope at an angle of

~~75.47 015~~
 80°

80.00

Set a granite stone $48 \times 30 \times 4$ in
38 ins. in the ground for stan cor. to Ths. 20 S. R 6 & 7 E marked S. E. with 6 notches on N. E. edges. and raised a mound of stone alongside.

East part of the Lujitoa

Fourth Stand. Parallel South

chain

mountain bears N $42^{\circ} 22' W$.
West peak of same range
bears N $47^{\circ} 45' W$.

Surface mountainous
Soil 4th rate
grass fair
Dense Mesquite + Ocotillo
brush

There is fine grass to the
very top of the Baboquivari
range. The East portion
is covered with considerable
Oak + Mesquite trees.
Water was found at the
East foot of the range.

through Range T East.

charis

The grass is good for miles
N & S. of the line.

The surface is very rough
on the East side, and rocky on
the West side.

Considerable evidence of
minerals in the mountains, and
in the foot. hills.

April 22nd 1885-

From the Stand cor. to Tps.
20 S. R. 6 & 7 E. just established
by me. I run West on South
line of Sec. 36.

At 13° E.

Descend along rocky ridge
bearing E to W,

Fourth Stand. Parallel South

chain

40.00

A Palo Verde tree 4 ins. in diam
which I. marked S.E. $\frac{1}{4}$ S. on
N. face for stand. $\frac{1}{4}$ Sec. cor.
dig pits $18 \times 18 \times 12$ ins. E & W.
of tree $5\frac{1}{2}$ ft. dist. and raised
a mound of earth around tree.
Set a Granite stone $20 \times 8 \times 4$
ins. 14 ins. in the ground
for stand cor. to Secs. 35 & 36
marked. S.E. with 1 notch
on E. and 5 notches on W.
edges, and raised a mound
of stone alongside.

Low hills on which can
be seen fields of grain bears
N.W. about 10 miles dist.
A trail about 2 miles North
leads to water, and goes

through Range 6 East.

Chains

East through the mountains
Surface mountainous
Soil 4th rate
Grass fair
Dense mesquitet ocotillo brush

West on South bdg. of sec 33.
Va 3° E.

Descend along ridge bears ENE
Foot of slope.

15.00 Cross Dry Wash course Westerly
25.00 Along Dry Wash course Westerly
40.00 Set a Limestone stone 30x25x5 in.
20 in. 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.

Fourth Stand, Parallel South

charis

marked stone 12 in. in the ground for stand cor. to Secs. 33 & 34. marked S. 6, T 20 S. R 6 E. on N. S. 34 on E. and S. 33 on W. faces with 3 notches on E & W. faces, dug pits 18 x 18 x 12 in. N. E & 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, from which,

A Mesquite tree 8 in. in diam bears N 45° W. 110 links dist marked T 20 S. R 6 E. S 33, B. T.

Surface level

Soil 2 $\frac{1}{2}$ to 3 $\frac{1}{2}$ in. rate

Scattering mesquite brush

through Range 6 East

chains

West on South bdg. of Sec. 3.
Va 13° E.

- 40.00 Descend gradually
Deposited a marked stone 12
in the ground for Stand. $\frac{1}{4}$ S.
cor. dug pits 18 & 18 x 12 ins. 6 ft.
of cor. 5- $\frac{1}{2}$ ft. dist. and raised
a mound of earth $1\frac{1}{2}$ ft. high
ft. base over it. In E. pit drove
a stake 2 ft. long 2 ins. sq.
ins. in the ground marked
S. 6 $\frac{1}{4}$ S. on St. face, from which
A mesquite tree 6 ins. in diam.
bears N 45° E. 75 links. dist.
marked S. 6. $\frac{1}{4}$ S. B. T.
79.50 A mesquite tree 4 ins. in diam
80.00 Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins. in

Fourth Stand, Parallel Smith

chains

the ground for stand cor
cor. to Secs 32 & 33, marked
S. 6. T20 S. R6 E. on N. S33
on E. and S32 on W. faces
with 4 notches on E. and
2 notches on W. faces, dug
pit 18x18x 12 in., N. E & 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,
from which

A mesquite tree 4 in. in
diam bears East 50 links
dist. marked T20 S. R6 E.
S33 B. T.

Surface rolling
Soil 3 $\frac{1}{2}$ " to 4 $\frac{1}{2}$ " rate
grass poor.

through Range 6 East.

charis

West on South bay. of Sec. 32
N 13° E.

40.00

Deposited a marked stone 12
in. in the ground for Stand
1/4 Sec. cor. dug pit 18x18x12 in
E & W of stone 3 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 ft. long
2 in. sq. 12 in. in the ground
marked S. S. 1/4 S. on N. face.
from which,

A Mesquite tree 15 in. in diam
bears N 70° W. 170 links dist.
marked S. S. 1/4 S. B. T.

50.00 Gross trail bears N. W. S. E
72.00 Gross trail bears N. & S.

Fourth Stand. Parallel South

chariv

20.00

Set a Post 4 ft. long 4 ms. sq.
 with marked stone 12 in. in
 the ground. for Stand. cor.
 to Secs. 31 & 32. marked S. 6.
 T20 S. R 6 E. on N. S32 on E.
 and S. 31 on W. faces with 5
 notches on E. and 1 notch on
 W. faces, dug pits 18x18x12
 in. N.E & 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, from which
 A Mesquite tree 8 in. in diam.
 bears N 8° W 118 links. dist. marked
 T20 S. R 6 E S31, B.T.

Surface rolling
 Soil 3 $\frac{1}{2}$ to 4 $\frac{1}{2}$ ft. rate
 grass poor

through Range 6 East

chanci

West on South bdg. of Sec 31
Lat 30°

- 40.00 At Mesquite tree 6 ins. in diam
which I marked S.C. 1/4 S. on N. face
for Stand. 1/4 Sec. cor. dug pits
18x18x12 ins. E + W. of tree 5 1/2 ft. dist.
and raised a mound of earth
around tree.
- 80.00 Set a post 4 1/2 ft long 4 ins. sq.
with marked stone 12 ins. in the
ground for Stand. cor. to Ths.
20 S. R. 5 + 6 E. marked S. C.
T 20 S. on N. R 6 E. S. 31 on E.
and R 5 E. S. 36 on W. faces with
6 notches on N. E + W. faces, dug
pits 2 4 x 18 x 12 ins. cross-wise on
each line N. E + W. of post. 6 ft.

Fourth Stand. Parallel. South

chains

dist. and raised a mound
of earth $2\frac{1}{2}$ ft. high 5 ft.
base around foot, from which
A Mesquite tree 8 ins. in diam
bears $N30^{\circ}E.$ 1 chain dist.

marked T20 S. R6 E. S31 B. T.

A Mesquite tree 6 ins. in
diam bears $N45^{\circ}W.$ 90 links dist.

marked T20 S. R5 E. S36 B. T.

Baboquivari peak bears $N58^{\circ}49'6''$

Quijotla peak bears $N44^{\circ}22'W.$

Sugarloaf peak bears $S88^{\circ}40'6''$

Surface rolling

Soil $3\frac{1}{2}$ to $4\frac{1}{2}$ ft. rate

grass poor

through Range 6 East

chamis

There is a fair growth of Mesquite and Palo Verde trees, and cacti of several varieties along the line.

No water was found at the time of the survey.

The surface is mostly rolling, and the soil is not very good. The grass is poor.

I carefully examined the adjustments of my solar transit to-day particularly the latitude and reversing apparatus and found them to be correct.

April 23rd 1885

Fourth Stand, Parallel South

chain

From the stand cor. to
The 2d S. R. 57 E. just
established by me. From
West on South bdry. of sec. 36
W. 1/4 S. 36 E.

On level ground
cross trail bears N. E. & S. W.
Deposited a marked stone 12
ins. in the ground for stand.
1/4 Sec. cor. dug pits 18x18x12 ins.
E & W of stone 5 $\frac{1}{2}$ ft. dist. and
raised a mound of earth 12
ft. high 3 $\frac{1}{2}$ ft. base over it.
In E. pit drove a stake 2 ft.
long 2 ins. sq. 12 ins. in the
ground marked S. S. 1/4 S. on
N. face.

through Range 5 East

Chamis

41.50

Cross trail bears N.W + S.E.

41.50

Cross trail bears N.E + S.W.

9.90

Cross road bears N + S.

0.00

Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins. in the
ground for Stand Cor. to Secs.

35-36, marked S. 6. T20 S.

R 5 E. on N. S36 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 + 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.

from which

A mesquite tree 8 ins. in diam
bears N 45° W. 115° links dist.
marked T20 S. R 5 E. S. 35. B. T.

Fourth Stand Parallel South

chain

Surface level
Soil $2\frac{1}{2}$ to $3\frac{1}{2}$ rate
grass fair

West on south bay of S. 35°
of a bold

7.00 Cross trail bears N & S.
There are several tanks
that bear south about two
miles east from this point,
but contain no water.

40.00 Deposited a marked stone 12
in. in the ground for stand
 $\frac{1}{4}$ sec.-cor., dug pit 18×12 in.
E & 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 over it.

through Range 5 East.

chain

In E. pit drove a stake 2 ft. long
2 ins. sq. 12 ins. in the ground
marked S. 6 $\frac{1}{4}$ S. on E. faces
from which,

A Mesquite tree 8 ins. in diam
bears N 35° E. 80 links. dist. marked
S. 6. $\frac{1}{4}$ S. B. T.

62.40 Cross road bears N. W. S. E.
80.00 Set a Post. 4 ft. long 4 ins. sq.
with marked stone 12 ins. in the
ground for Stand. Cor. to Secs.
34 & 35. marked S. 6. T 20 S. R 5 E.
on N. S 35° on E. and S 34 or W.
faces with 2 notches on E. and 4
notches on W. faces, dug pits 8 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

Fourth Stand. Parallel South

Chamis

from which
A Mesquite tree 14 ins. in
diam bears N 2° E. 140 links
dist. marked T 20 S. R 5 E.
S 35. B. T.

Sand hills about 3 miles
North from this point, and
fields of grain are noticeable
at the S.E. foot of them,
and also deserted Indian
villages.

Surface level
Soil 4th rate
Grass poor
Dense Mesquite brush

through Range 5 East.

Chamis

West on South bay. of Sec. 34
Lat. 41° 13' E.

Ascend gradually

40.00

Deposited a marked stone 12
ins. in the ground for stand.
1/4 Sec. cor. dug pit 18x18x12 ins. & found
of stone 5th fl. dust. 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 ft. long 2 ins.
sq. 12 ins. in the ground marked S.C. 1/4 S.
on N. face.

80.00

Set a Post 4 ft. 4 ins sq. with
marked stone 12 ins. in the
ground for stand. cor. to Secs.
33 & 34. marked S. b., T20 S.R5 E.
on N. S3 1/4 m E. and S33 on W.
faces with 3 notches on E & W. faces
dug pit 18x18x12 ins. N.E. & N.W. of

Fourth Stand Parallel South

Chains

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,
from which,-

A Mesquite tree 4 in., in diam
bears N 10° E. 1 chain dist.

marked T20 S. R5 E. S34, B.T.

A Mesquite tree 7 in. in diam
bears N 45° W. 40 links. dist.
marked T20 S. R5 E. S33, B.T.

Surface level

Soil 4th rate

Grass poor

Dense Mesquite brush

West on south line of Sec. 33,
Ma 13 08

through Range 5 East.

Chamis

Ascend gradually,

40.00

Deposited a marked stone 12 ins.
in the ground for Stand 1 $\frac{1}{4}$ Sec. cor.
dug pit 18x18x2 ins. E & 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
over it. In C. pit drove a stake
2 ft. long 2 ins. sq. 12 ins. in
the ground marked S. E 1 $\frac{1}{4}$ Stand $\frac{1}{4}$ sec.

80.00

Set a Post 4 ft. long 4 ins. sq. with
marked stone 12 ins. in the ground for
Stand. cor. to Secs. 32 & 33, marked S. E
T20S. R5E on N. S33 on E and S32
on W. faces with 4 notches on E. and
2 notches on W. faces, dug pit 18x8
x12 ins. N.E 8W. 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. from which

Fourth Stand, Parallel South

Chains

A Mesquite tree 10 ins. in
diam bears N.E. 1 chain dist.
marked T20 S. R 5 E. S 33. B.T.

Surface level
Soil 4th rate

Grass poor

Dense Mesquite & Palo Verde
brush

West on South. lay. of S 32.
Va 13° E.

Ascend gradually.

Deposited a marked stone
2 ins. in the ground for stand
1/4 Sec. cor. dug pit 18x 18x 12 ins.
E & W. of stone 5 1/2 ft. dist. and
raised a mound of earth

40.00

through Range 5 East.

chains

1¹/₂ ft. high 3¹/₂ ft. base over it.
In E. pit drove a stake 2 ft. long 2
ins. sq. 12 ins. in the ground
marked S. 6¹/₄ S. on N. face.
from which,

A Mesquite tree 12 ins. in diam.
bears N.W. 35 links dist. marked
S. 6¹/₄. S.B.T.

\$0.00

Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins. in
the ground for Stand. cor. to Secs
31+32. marked S. 6 T 20 S R 5 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 18 x 10
x 12 ins. N. E & W. of post. 5¹/₂
ft. dist. and raised a mound of
earth 2 ft. high 4¹/₂ ft. base

Fourth Stand, Parallel South

Chains

around post, from which
A Mesquite tree 12 ins. in diam
bears N 2° E. 190 links dist,
marked T 20 S. R 5 E. S 32, B. T.
surface level
Soil 4th rate
Grass poor
Dense Palo verde & Mesqui
brush

West on South bdg. of Sec 31
Va 13° E.

40.00

Deposited, a marked stone
2 ins. in the ground for stand
1/4 sec. dug pit 18x18x12 ins.
E & W of stone 5 1/2 ft. dist. and
raised a mound of earth 1 1/2

1494

through Range 5 East.

Chamie

ft. high $3\frac{1}{2}$ ft. base over it. In E. pit
drove a stake 2 ft. long 2 in. sq.
12 in. in the ground marked
S. S. $\frac{1}{4}$ S. on N. face

80.00

Set a Post 4 ft. long 4 in. sq. with
marked stone 12 in. in the ground
for Stand. cor. to Thos. 25 S. R. 44¹/₂
marked S. C. T20 S. on N. R 5 E. S.
31 on E. R 48. S 36 on W. faces
with 6 notches on N. E. & W. faces
and pine 24x18x12 in. cross-wise
on each line 6 ft. dist. and
raised a mound of earth $2\frac{1}{2}$ ft.
high 5 ft. base around post.
from which

A Palo Verde tree 10 in. in diam.
bears N. $35^{\circ} 4' E.$ 216 links dist.
marked T20 S. R 5 E. S 31. B. T.

Fourth Stand, Parallel South

chronie

A Mesquite tree 7 in. in
diam bears $N 73^{\circ} 50' W.$, 116
links dist. marked.

T20 S., R 48, S 36, B, T,

Baboquivari peak bears $N 6^{\circ} E.$

Sugar loaf " " $S 88^{\circ} 15' E.$

East point of the Grijalva
range bears $N 27^{\circ} 45' W.$

High point of short mountain
range bears $S 13^{\circ} E.$, the
range bears $N.W + S.E.$ and
is about three miles in
length, with highest point
at the N. W.

Surface level

Soil $3\frac{1}{2}$ to $4\frac{1}{2}$ feet

grass poor

Dense mesquite brush

through Range 5 East.

A fair growth of Mesquite and Palo Verde trees, and considerable cacti of several varieties are found along the line.

The grass is fair, and the soil is mostly $3\frac{1}{2}$ to $4\frac{1}{2}$ th rate

I was unable to continue the line West from this point, as my supply water had given out, and my men and horses being completely exhausted, I sent men to the North, South & West in search of Indian Villages, which are located on the maps, but they returned and reported

all of the Indian Villages deserted, and no water to be found. It was with the greatest difficulty that we made our way back, and finally found water in the Baboquinari Mountains.

For final oaths see book No. 2.

U. S. Surveyor General's Office,

Tucson, Arizona, July 27 - 1885

The foregoing Field Notes of the Survey of the

South StandardParallel Souththrough Range5-6-7-8-9-10-11 + 11East

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

Lewis WolfleyDeputy Surveyor, under his contract of the ~~Twenty~~ eightday of February, 1885, having been

critically examined and the necessary corrections and explana-

tions made, the said Field Notes and the surveys they describe

are hereby approved.

Raymond Johnson
Surveyor General.