

No. 1338

BOOK 1338

Book I

See Index  
**Field Notes**

OF THE SURVEY OF

the 4th Auxiliary  
Meridian through  
Tps. 21, 22, 23 and 24 N.

1338

No. 1338

BOOK 1338

Gila and Salt River Base and Meridian

ARIZONA.

By O. D. Wheeler D.S.

Under contract dated Aug 5<sup>th</sup> 1882

Survey commenced Sept. 15 1882

Survey completed Sept 10 1882

✓

## Preliminary Oaths of Assistants.

I, John Mahon....., 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, in the survey of the 4<sup>th</sup> Aux. Guide Mer. along N.B. T. 21. 22. 23 + 24 & R 17 E. The 6<sup>th</sup> Standard north along S. B. T. 25 & R. 15. 16 + 17 E. The 5<sup>th</sup> Standard along S. B. T. 21 & R. 14 + 15 E retracing of a portion of the exteriors of T. 19 + 20 & R. 15 E. & T. 18 + 21 & R. 16 E and Exterior and Subdivision lines of T. 18 & R. 16 E, T. 19 & R. 15 E, T. 20 & R. 14 E + 15 E & T. 21. 22. 23 + 24 & R. 15. 16 + 17 E G. and S. R. Mer

John Mahan....., Compassman.

Subscribed and sworn to before me this 10<sup>th</sup>..... day of September....., 1882.

A. E. Shoemaker  
*R. S. Commissioner, 3d Judicial District,  
 Arizona Territory.*

We, Theodore Gries, H. Black,  
 and J. Peterson + P. W. McFarland.....  
 do solemnly swear that we will well and faithfully execute the

1B

BOOK 1338

duties of chain carriers; that we will level the chain upon even and uneven ground and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true 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 4<sup>th</sup> Class. Guide Mer. along N. B. T. 21, 22, 23 + 24 & R 17 E, The 6<sup>th</sup> Stand. North along S. 43 T. 25 & R 15, 16 + 17 E, The 5<sup>th</sup> Stand. along D. B. T. 21 & R 14 + 15 E, retracing of a portion of the Exterior of T 19 + 20 & R 15 E + T 19 + 20 & R 15 E + T 18 + 21 & R 16 E and Exterior + subdivision line of T 18 & R 16 E, T. 19 & R 15 E, T 20 & R 14 E + 15 E + T 21 & R 22, 23 + 24 & R 15, 16 + 17 E & S. R. M.

Theodore Friese, Chainman.

H. Black, Chainman.

J. Peterson, Chainman.

J. A. McFarland, Chainman.

Subscribed and sworn to before me this 10<sup>th</sup> day of September, 1882

A. G. Shoemaker  
U. S. Commissioner, 3d Judicial District,  
Arizona Territory.

We, M. Nelson

and

do solemnly swear that we will well and truly perform the duties of axemen, 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 4<sup>th</sup> Aux. Guide Mer. along W. B. T. 21, 22, 23, 24 N R 17 E, The 6<sup>th</sup> Standard North along S. B. T. 25 N R 15, 16 + 17 E, The 5<sup>th</sup> Standard along S. B. T. 21 N R 14 + 15 E retracing a portion of the Exterior of T. 19 + 20 N. R. 15 E, T. 18 + 21 N R 16 E and Exterior and Subdivision lines of T. 18 N. R. 16 E, T. 19 N R 15 E, T. 20 N. R. 14 E + 15 E + T. 21, 22, 23 + 24 N. R. 15 E, 16 + 17 E G. & S. R. M.

M. Nelson, Axeman.

, Axeman.

Subscribed and sworn to before me this 10<sup>th</sup>

day of September, 1882.

A. Shoemaker

U. S. Commissioner, 3d Judicial District,  
Arizona Territory.

J. Johan Eichner

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, in the survey of the 4th <sup>Class</sup> Guide Mer along W 1/2 Ts 21. 22. 23 + 24 N. R 17 E. The 6th Stand, North along S. B. T. 25 N. R 5 15. 16 + 17 E. The 5th Stand, along S. B. T. 21 N. R 14 + 15 E, retracing of a portion of the exterior of Ts 19 + 20 N. R 15 E + Ts 18 + 21 N. R 16 E and Exterior + subdivision lines of T. 18 N. R 16 E. T. 19 N. R 15 E. T. 20 N. R 14 E + 15 E + Ts 21. 22. 23 + 24 N. R 15. 16 + 17 E. G. + J. R. M.

Johan Eichner, Flagman.

Subscribed and sworn to before me this 10th

day of September, 1882

A. E. Shoemaker

U. S. Commissioner, 5th Judicial District, Arizona Territory.



Index to 4th Aux. Mer.

4th Aux. Mer.	Page
Aux. Mer. through Jan 21 or from 1-12	
" " " " 22 " " 12-20	
" " " " 23 " " 20-30	
" " " " 24 " " 30-40	

4th Aux. Mer. Co.

S.21N	S.22N	S.23N	S.24N
1 11 6	1 18 6	1 28 6	1 38 6
12 9 7	12 17 7	12 26 7	12 37 7
13 8 18	13 16 18	13 25 18	13 36 18
24 6 19	24 14 19	24 24 19	24 34 19
25 4 30	25 13 30	25 22 30	25 32 30
36 2 31	36 12 31	36 20 31	36 30 31

4th. Aux. Meridian East  
 of Gila and Salt River Meridian

Survey commenced Sept. 10th, 1882

The instrument that  
 I used in making  
 this survey was manufact.  
 by Otto Filinell  
 of Cassell Germany in  
 1881. and was carefully  
 examined and tested on  
 the true meridian  
 at Tucson Arizona,  
 before commencing this  
 survey. And was also  
 tested by me on the  
 13th. day of July  
 1882 and found to  
 be in perfect  
 adjustment.

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4th. dux: Medicine East.  
through Sps. 21: St.

From the standard  
Cor. to Sps 21 St. Co. 16  
and 17 E. which is  
a post 4<sup>1</sup>/<sub>2</sub> ft. long 4 ins.  
sq. firmly set in a  
mound of earth marked  
S. Co. J. 21 St. on St.  
R. 17 E. S. 31 on E.  
R. 16 E. S. 34 on N. face  
with 6 notches on E. E.  
and N. face. I run  
North St. Sps. 31 and 36  
Pa. 140 18 E.

40.00  
Asced gradually  
It a cottonwood post  
4 ft. long 4 ins. sq. with  
marked stone 12 ins.  
in the ground for <sup>114</sup>  
Sec. Cor. <sup>marked 14 S. off N. face</sup>  
aug file



4th aux Mar. through Apr. 21st.

Chavis

18x18x12 ins. St. and  
 S. of first 5 1/2 ft. and  
 raised a mound  
 of earth 1 1/2 ft. high  
 3 1/2 ft. face around post.  
 47.20 Moguni road to St. 30 E.  
 80.00 Set a cottonwood post  
 4 ft. long 4 ins. sq. with marked  
 stone 1 1/2 ins. in the ground  
 for Cor. to Dec. 25. 30.  
 31 and 36 marked  
 T. 21 St. S. 30 on St. E.  
 R. 17 E. S. 31 on St. E.  
 R. 16 E. S. 36 on St. N. and  
 S. 25 on St. N. faces.  
 with 1 notch on S.  
 and 5 notches on St.  
 edges. dug pit- 18x18  
 x12 ins. ins. in each

4th aux. mer. through Sp. 21 St.

Charris

Sec.  $5\frac{1}{2}$  ft. dist. and  
raised a mound of  
earth 2 ft. high  $4\frac{1}{2}$  ft.  
base around post  
Land slightly rolling  
Light grass.

Scattering sage brush  
Soil sandy 3rd. rate

North pt. Sec. 25 and 30  
Va.  $14^{\circ} 25' E.$

Ascend gradually

40.00

Set a cottonwood  
post 4 ft. long 4 ins. sq.  
with marked stone 12 ins.  
in the ground for "4  
Sec. Cor. marked "4 S.  
on N. face. dug pits  
 $18 \times 18 \times 12$  ins. N. and S.

4th. aux. Mr. through Sp. 21 N.

Chains

7 feet  $5\frac{1}{2}$  ft. dist.  
and raised a mound  
of earth  $1\frac{1}{2}$  ft. high  
 $3\frac{1}{2}$  ft. low around post.  
20.00 Top of low spur to E.  
and N. 25 ft. high and  
descend

76.50 Wash 1.00 Chain wide to N.  
and descend gradually

80.00 Set a cottonwood post.  
4 ft. long 4 in. sq. with  
marks <sup>1/2 in.</sup> 12 in. in the ground  
for Cor. to Dec. 1924  
25 and 20 marked  
S. 21 N. S. 19 on N.E.  
R. 17 E. S. 20 on S.E.  
R. 16 E. S. 25 on S.N. and  
S. 24 on N.N. face. with  
2 notches on S. and

4th aux. Mer. through Sp. 21 N.  
 Chariss

4 notches N. edge. dug  
 pits 18 x 18 x 12 ins. in  
 each S. 100° 3 1/2 ft.  
 dist. and raised a  
 mound of earth 2 ft.  
 high 4 1/2 ft. base  
 around post.

Surf. soil rolling  
 Soil sandy 3rd. rate  
 Scattering oak + brush  
 some grass.

4 holes pit. S. 100° 19 and 24  
 Va. 124° 25' E.

Observed gradually

40.00

Set a cottonwood post:  
 4 ft. long 4 ins. sq. with  
 marked stone 12 ins.  
 in the ground

4th Aux. Wm. through Sp. 21 St.

Chaise

for "4 Sec. Cor. marked  
"4 S. on N. face

dig pits 15 x 15 x 12 ins.

W. and E. of foot

5 1/2 ft. dist. and  
raised a mound

of earth 1 1/2 ft. high

3 1/2 ft. base around post

5000 Set a cottonwood post

4 ft. long 4 ins. sq. with mark-

ed dot 12 ins. in the ground

for Cor. to Dec. 13, 18  
19 and 24 marked

S. 21 St. S. 18 on N.E.

R. 17 E. S. 19 on S.E.

R. 16 E. S. 24 on S.W. and

S. 18 on N.W. faces with  
3 notches on S. and W.

edges, dig pits 15 x 15 x

4th. Oak Mound in through Top of  
Chairs

12 ins. in each Sec. 5<sup>th</sup>  
ft. diam. and raised  
a mound of earth 2 ft.  
high 4<sup>1</sup>/<sub>2</sub> ft. base  
around foot.  
Surface nothing  
Soil sandy 2nd. rate  
Very little grass

North pt. Sec. 13 & 18  
Va. 14° 25' E.

Mound

40.00 Set a cotton wood  
post. 4 ft. long 4 ins.  
sq. with marked  
stone 12 ins. in the  
ground for "4" Sec.  
Cor. marked "4" S. on  
N. face. dug pits

4th. Aug. Mer. through Sp. 21 N.  
Chairo

18 x 18 x 12 ins. St. and  
S. of post 5 1/2 ft.  
dist. and raised a  
mound of stone around post  
at foot of Butte.

80.00 Set a flintstone 16 x 8 x 6  
ins. 11 ins. in the ground  
for Co. to Secs. 7, 12, 13 & 15  
marked with 4 notches on  
S. and 2 on N. Edge  
and raised a mound  
of stone along side Pile. unfract.  
Surface rolling  
Soil 3rd. rate sandy  
Very little grass.

North pt. Secs. 7 and 12  
Va. 13° 45' E.

Ascend

4th Ave. Mer. through Sp. 21 St.

Chairs

- 40.00 Set a flint stone 14  
 x 10 x 8 ins. 9 ins. in the  
 ground. for "4. S. 11. Cor.  
 marked "4" on N.  
 face. and raised a  
 mound of stone alongside
- 60.00 Top of Tuttle br. E. and  
 N. 75 ft. high and descend
- 80.00 Set a flint stone  
 16 x 8 x 6 ins. 11 ins. in  
 the ground for Cor.  
 to Sec. 14. 7 and 12  
 marked with 5 notches on  
 S. and 1 notch on  
 N. edges. and raised  
 a mound of stone  
 alongside Pito unpracticable  
 Survey on rough  
 Soil from N. grass



4<sup>th</sup> Aux. Mer. through Sp. 21 Or.  
Chains

North pt. Sec. 1 and 6

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

Descend

4 000

Set a flint stone  
14 X 8 X 6 ins. 9 ins. in  
the ground for "4  
Sec. Cor. marked  
"4 on N. face. and  
raised a mound of  
stone along side <sup>to improve</sup>

44.00

Mark 75 with Co. S.  $40^{\circ}N$ .

50.00

Set a flint stone 16 X 8 X 6  
ins. 11 ins. in the ground  
for Cor. to Sp. 21 and 22  
Or. Co. 16 and 17 E.

marked with notches  
on each edge. dug  
pits 24 X 18 X 12 ins.  
lengthwise on each

4th aux. Mx through  
Sp. 21 St.

Chains line N. S. E. and  
N. of stone 6<sup>1</sup>/<sub>2</sub> ft. dist.  
and raised a mound  
of earth 2<sup>1</sup>/<sub>2</sub> ft. high  
5 ft. base along side  
Surface rough and rocky  
No vegetation

From the Cr. to Sp.  
21 and 22 St. No. 16 and 7  
E. just established by me.  
I am north St.  
Nos 21 and 26

Jan. 13<sup>th</sup> 35<sup>th</sup> E.

Ascend

40.00

Set a flint stone, 6 x 10 x 4 ins., 11 ins.  
in the ground for  $\frac{1}{4}$  Sec, Cor, marked  $\frac{1}{4}$ . on N.  
face, dug pits 18 x 18 x 12 ins. N and S.  
of stone 5<sup>1</sup>/<sub>2</sub> ft. dist. and raised a mound of earth  
1<sup>1</sup>/<sub>2</sub> ft. high, 3<sup>1</sup>/<sub>2</sub> ft. base. alongside.

Chains

8090

Set a flint stone  $6 \times 10 \times 4$  ins., 11 ins. in the ground for Cor. to Secs, 25-30-31-36 marked with notch on S and 5 notches on E. edges.

and raised a mound of stone along side of surface very rough soil sandy rocky no grass

North pt. Sec. 25 and 30  
 Va.  $13^{\circ} 35' E.$

Continue to record

8000

Set a flint stone  $16 \times 8 \times 4$  ins., 11 ins. in the ground for "4 Sec. Cor. marked "4 on N. face and raised a mound of stone along side

8000

Set a flint stone  $15 \times 8 \times 5$  ins., 10 ins. in the ground for Cor. to Sec. 19, 24. 25 and 30 marked

4th Auxiliary Meridian  
through Spa. 22 St.  
Chains

with 2 notches on S. and 4  
notches on St. edge. and  
raised a mound of stone along side  
Surface rough and rocky  
Soil rocky 4th rate  
No vegetation

North pt. Sec. 19 and 24  
Va.  $13^{\circ}35'E$ .

Ascend

4 000 Set a flint stone  $14 \times 10 \times 4$  ins. 9  
ins. in the ground for  $\frac{1}{4}$  Sec. Cor.  
marked  $\frac{1}{4}$  on N. face

and raised a mound  
of stone along side  
600.00 Top of low ridge to  
St.  $16^{\circ}$  N. and S.  $16^{\circ}$  E.  
35-ft. high and descend

8 000 Deposited marked

4th aux Mr. through  
 Sps. 22 Cr.  
 Chains

stone 12 ins. in the  
 ground for Cor. to Sec.  
 13. 18. 19 and 24 dug pits  
 18x18x12 ins. in each  
 Sec. 5 $\frac{1}{2}$  ft. dist. and  
 raised a mound of  
 earth 2 ft. high of 4 $\frac{1}{2}$   
 ft. base over it.  
 In S.E. pit, drove  
 stake 2 ft. long 2 ins.  
 sq. 12 ins in the  
 ground marked  
 T. 22 Cr. S. 18 on N.E.  
 R. 17 E. S. 19 on S. E.  
 R. 16 E. S. 24 on S. N.  
 and S. 13 on S. N. faces  
 with 3 notches on S.  
 and N. edges.  
 Surface rough

4th. Aux. Mur. through  
 Jps. 22 St.  
 Chain

Soil 4th rate rocky  
No vegetation

North pt. Dec. 13 and 18  
 Pa. 13°40'E.

Discard

40.00

Deposited marked  
 stone 12 ins. in the  
 ground for "4 Sec. Cr.  
 dug pits 18x18x12  
 ins. N. and S. of  
 stone 5 $\frac{1}{2}$  ft. Dist.  
 and raised a mound  
 of earth  $\frac{1}{2}$  ft. high  $3\frac{1}{2}$   
 ft. tall over it.

In N. pt. drove stake  
 2 ft. long 2 ins. dia.  
 2 ins. in the ground  
 marked "4 S. on W. face.

17  
4th Mex. Mor. through  
Chains Jpn. 22 St.

8000 Set a lime stone  $7 \times 12 \times 8$  ins. 11 ins.  
in the ground for Cor. to Secs.  
7-12-13 and 18 marked with 4 notches  
on S. and 2 on N. edges and  
raised a mound of stone alongside  
Surface broken, barren  
Soil 4th rate  
No vegetation

North lat. Sec. 7 and 12  
Va.  $13^{\circ}40'E$ .

4000 Set a flint stone  $14 \times 8 \times 6$  ins.  
9 ins. in the ground for "4  
Sec. Cor. near lat "4 on N. face  
and raised a mound  
of stone alongside

8000 Set a lime stone  $6 \times 4 \times 3$  ins. 11 ins. in  
the ground for Cor. to Secs. 1-6-7-12 marked  
with 5 notches on S. and 1 notch on N. edge.

4th aux Mr. through Igo.

22 cr.

Chain

and raised a mound  
 of stone alongside  
 Surface barren  
 Soil sandy and rocky  
No vegetation

North bet. Secs. 1 and 6  
 Va. 13°40'E.

Discard

4000

Deposited marked  
 stone 12 in. in the  
 ground for 114 Sec. Gr.  
 dug pit 18x18x12 in. N.  
 and S. of stone 5 1/2  
 ft. dist. and raised  
 a mound of earth 1 1/2  
 ft. high 3 1/2 ft. base  
 over it In N. pit.  
 drove stake 2 ft.



4th Aux. Mr. through  
 Jps. 22 N.  
 Chains

Long 2 ins. sq. 12 ins. in  
 the ground marked  
 "4 S. on N. face.

80.00 Set a limestone 20 x  
 12 x 10 ins. 15 ins. in the  
 ground for Cor. to  
 Jps. 22 and 23 N.

R. 16 and 17 E. marked  
 with 6 notches on each  
 edge. and raised a  
 mound of stone alongside  
 Pits impracticable  
 in S. edge of wash  
 200 Chains. Wide to.  
 N. 70° W.

Surface <sup>marks</sup> level  
 Soil 3rd. rate  
 Scattering grasses

4th aux. guide Meridian through  
Tps 22 St.

I carefully examined the  
adjustments of my Solar  
Compass to-day particu-  
larly the latitude  
and reversing apparatus  
and found them correct  
September 15th. 1852.

From the Cor. to Tps.  
22 and 23 St. Co. 16  
and 17 E. which was  
just established by me  
I run North bet.  
Secs. 31 and 36

No. 13° 40' E.

175 Mash 200 Chains wide  
Co. St. 75 St. and ascend.  
1000 Ascend over brooks and hills

4th. Aux Mo. through Apr. 23 N.

Chains

- 40.00 Set a flat stone  $14 \times 8 \times 4$  ins. 9 ins  
in the ground for  $1/4$  Sec. Cor.  
marked "4" on N. face  
and raised a mound of  
dirt along side
- 47.00 Leave tracks and hills  
and enter mesa.
- 67.00 Began to descend
- 80.00 Deposited marked  
stone 12 ins. in the  
ground for Cor. to  
Sec. 25-30-31  
and 36. dug pits  
 $18 \times 18 \times 12$  ins. in each  
Sec.  $5 \frac{1}{2}$  ft. dist.  
and raised a  
mound of earth  
2 ft. high  $4 \frac{1}{2}$  ft.  
base over it.

4th aux. Mn through Jpa 23 Or.

Chains

In S.E. pit drove stake  
2 ft. long 2 ins. sq. 1 ins.  
pin the ground  
marked

J. 23 Or. S. 30 on N.E.  
P. 17 C. S. 31 on S.E.  
P. 16 E. S. 36 on S.N.  
and S. 25 on N.N.  
foss with 1 notch  
on S. and 5 notches  
on N. edges.

pt. 40 ch. some grass  
surface rough and rolling  
Soil 2nd. rate

North pt. Sec. 25 500  
Va. 13°30'E.  
Droove gradually

China 4th Mex. Mur. through  
Tpo. 23 St.

4000 Set a post 3 ft. long 3 ins. diam with marked  
stone, 12 ins, in the ground for  $\frac{1}{4}$  Sec, Cor,  
marked  $\frac{1}{4}$  S. on N face dug pits 18 x 18 x 12  
ins.  $\frac{1}{4}$  and  $\frac{1}{4}$  of post 5  $\frac{1}{2}$  ft. dist. and raised  
a mound of earth 1  $\frac{1}{2}$  ft. high  $\frac{1}{4}$  sec. around  
post.

7000 Cross West Co. N. W.

8000 Set a post 4 ft. long 4 ins. square, with marked  
stone, 12 ins, in the ground for Cor, to Secs,  
19, 24, 25, 30 marked T. 23 N. S. 19 on  
N. E. R. 17 E S. 20 on S. E. R. 16 E,  $\frac{1}{4}$  25 on  
S, W, and S, 24 on N, W, face, with 2 notch 10  
on S, and 4 notches on N edges, dug  
pits 18 x 18 x 12 ins. in each Sec., 5  $\frac{1}{2}$  ft. dist.  
and raised a mound of earth 2 ft. high. 4  $\frac{1}{2}$  ft.  
base. around post.

Surface level  
Soil 3rd. rate  
Very little grass

With an iron through Apr. 23 st.

Chains

North pt. Sec. 19 & 24  
Co. 100 30' E.

Ascend

40.00

Set a post 3 ft. long 3 ins. diam with marked stone, 12 ins, in the ground for 1/4 Sec, Cor, marked 1/4 S. on N. face, dug pits 18 x 18 x 12 ins. N. and S. of post 5 1/2 ft. dist. and raised a mound of earth 1 1/2 ft. high. 3 1/2 ft. base. around post. on low ridge bet. N. 60° W. and S. 60° E. 100 ft. high and descend

80.00

Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins, in the ground for Cor, to Secs, 13-18-19-24 marked T. 23 S. 18 on N. E. R. 17 E S. 19 on S. E. S, S, W, and S, 13 on N, W, face, with 3 notch 10 on S, and 3 notch 10 on N edges, dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist. and raised a mound of earth 2 ft. high. 4 1/2 ft. base. around post.

4th Aux. Mer. through Sta 23 cr.

Chamiso

Surface rolling  
Soil 3rd. rate  
Very little grass

North pt. Sec 13 and 18  
Sta. 13030E

Descend gradually

4000

Deposited marked stone  
12 ins. in the ground for  
14 Sec Cor. dug pits  
18x18x12 ins. N. and S.  
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  
N. pt drove stake  
2 ft. long 2 ins. sq. 12 ins  
in the ground marked 14  
14 S. on N. face

4th. Ave. Mo. through Tpo. 23 cr.

8000

Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins, in the ground for Cor, to Secs.

7-12-13-18 marked T. 23 cr. S. 7 on N. E. R. 17 E. S. 18 on S. E. R. 16 E. S. 13 on S, W, and S, 12 on N, W, face, with 4 notch on S, and 2 notch on N edges, dug pits 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist. and raised a mound of earth 2 ft. high. 4 1/2 ft. base. around post.

Surface rolling  
Soil 2nd. and 4th rate  
Very little grass

North 4th. Sec. 7 and 12  
Pa. 13° 30' E.

4000

Disced gradually  
Deposited marked stone  
12 ins. in the ground for 4  
Sec. Cor. dug pits 18 x 18  
x 12 ins. N and S. of



4th Aux Mer. through Sp. 23 Cr.

Chains

down 5 1/2 ft. dist. and raised a mound of earth 1 1/2 ft. high 8 1/2 ft. base over it. In 1st pit drove stake 2 ft. long 2 ins. sq. 12 ins. in the ground marked "4 S. on

N. face

6250 Wash 20 links wide of Cr. N.

8000 Set a lime stone 4x6x4 ins. 9 ins. in the ground for Cor. to Secs. 1-6-7-12 marked with 5 notch on land / notch on wedges, dug pits 12 ins. in each Sec., 5 1/2 ft. dist. and raised mound of earth 2 ft. high 4 1/2 ft. base. along ...

Surface rolling  
Soil 3rd and 4th rate  
Very little grass

4<sup>th</sup>. Aux Mer. through Sep. 23 or.

Chains

North to Sec. 1 and 6

(a.  $13^{\circ} 30' E$ .)

Accord

40.00

Deposited marked stone 12 ins.  
in the ground for "4 Sec. Cor.  
dug pits 18x18x18 ins.  
N. and S. 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. wide over it. On  
N. pit drove stake 2 ft.  
long 2 ins. sq. 12 ins. in  
the ground marked "4 S.  
on N. face

80.00

Set a post.  $4\frac{1}{2}$  ft. long  
4 ins. sq. with marked  
stone 12 ins. in the ground  
for Cor. to Sep. 23 and 24  
N. R. 16 and 17 E. marked

4th aux. Mm. through Sp. 23 st.

Chains

J. 24 st. S. 31 on st. E.  
 R. 17 E. S. 6 m on S. E.  
 J. 23 st. S. 1 on S. E. and  
 R. 16 E. S. 36 m st. M. fauce  
 with notches on each  
 edge, dug pits 24 x 18 x 12  
 ins. lengthwise on line  
 st. S. E. and W. of post  
 6 ft. dist. and raised  
 a mound of earth  
 2 1/2 ft. high of 5 ft. tree  
 around post  
 Surface rolling  
 Soil 3rd. to 4th rate  
 Very little grass

4th. Aux. Mr. through Apr. 24 A.

Chavis

From the Co. to Apr  
23 and 24 A. Rs. 16 and  
17 E. just established  
by me I run  
North pt. Secs. 31 and 30  
Va. 13° 20' E.

Depend over rolling land

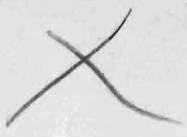
40.00

Dipointed in marked  
stone 12 ins. in the  
ground for 1/4 Sec. Cor.  
dug pit 18 x 18 x 12 ins.

N. and S. of stone 5 1/2  
ft. dist. and raised  
a mound of earth 1 1/2 ft.  
high 3 1/2 ft. base over  
it In N. pt drove  
stake 2 ft. long 2 ins. dia.  
12 ins. in the ground  
marked "4 S. on N. face -

4th aux. sur. through  
 Chain Apr 24 St.

8000 Deposited marked stone  
 12 ins. in the ground  
 for C or. to Secs. 25, 31,  
 31 and 36 dug pits 18x18x  
 12 ins. in each Sec. 5 1/2  
 ft. diam. and raised a  
 mound of earth 2 ft.  
 high 4 1/2 ft. base  
 over it. In S.E. part  
 drove stake 2 ft. long  
 2 ins. sq. 12 ins. in the  
 ground marked  
 (C. 24 St. S. 30 on N.E.)  
 (R. 17 E. S. 31 on S.E.)  
 R. 16 E. S. 36 on S.W.  
 and S. 25 on S.W. face  
 with 1 notch on S. and  
 5 notches on N. edge  
 Surface gently rolling



4th. aux mer. through Tpo. 24 or.

Chains

descends gradually to the north  
Some sagebrush and greasewood  
good grass  
Soil 2nd. rate

North pt. Dec. 25 and 30  
Pa. 13° 20' E.

Descend over rolling land

4012  
4000

cross low creek c-S.W.  
Deposited marked stone  
12 ins. in the ground  
for 1/4 Sec. Cor. dug pit  
18 x 18 x 12 ins. At end  
S. of stone 5 1/2 fti  
dist. and raised a  
mound of earth 1 1/2 fti  
high 3 1/2 fti. base over it.  
In N. pit drove  
stake 2 ft. long 2 ins. dia.

4th. over Mrs. through Apr. 24 or.

Chairs

12 ins. in the ground  
 marked "4 S. on N. face  
 8000 Deposited marked stone  
 12 ins. in the ground  
 for Oct. to Dec. 19, 24, 25  
 and 30 dug pits  
 18x18x12 ins. in each  
 Dec. 5 $\frac{1}{2}$  ft. dist. and  
 raised a mound  
 of earth 2 ft. high  
 4 $\frac{1}{2}$  ft. long over it.  
 In S.E. pit. drove  
 slates 2 ft. long 2 ins.  
 sq. 12 ins. in the ground  
 marked  
 J. 24 or. S. 19 on N.E.  
 R. 17 E. S. 30 on S.E.  
 R. 16 C. S. 25 on S. N.  
 and. S. 24 on N. N. face.

No. 1338

4th aux. \* Mer. through \* Tpo. 24 st.

Chains

with 2 notches on S. and  
4 notches on N. edge.

Surface nearly level  
Soil sandy 2nd. rate  
Scattering greasewood and  
sage brush Good grass

North pt. Sta 19 and 24  
Va. 13° 20' E.

Over nearly level land

2000

Begin to ascend gradually

4000

Deposited marked stone  
12 ins. in the ground

for 14 Sec. 40. dug pits  
18 x 18 x 12 ins. N. and

S. of stone 5 1/2 ft. dist.  
and raised a mound

of earth 1/2 ft. high  
3 1/2 ft. bar over it.



4th aux. Mer. through Jho. 24 or

Chains

00.00  
85.00

In St. put drove stake  
 2ft. long 2ins. sq. 12 ins.  
 pins in the ground  
 marked "4 S. on N. face  
 Begin to descend gradually  
 Deposited marked  
 stone 12 ins. in the  
 ground for Cor. to Sec.  
 13 18. 19 and 24 dug  
 pits 18x18x12 ins. in  
 each Sec. 5 1/2 ft. dist.  
 and raised a mound  
 of earth 2 ft. high 4 1/2  
 feet over it. In St.  
 put drove stake  
 2ft. long 2ins. sq. 12 ins.  
 in the ground. marked  
 S. 24 St. E. 18 on N.E.  
 R. 17 E. S. 19 on S.E.

4th Ave. W. through  
 Apr. 24 St.  
 chains

P. 16 c. S. 24 on S. W.  
 and S. 13 on N. W. faces.  
 with 3 notches on S.  
 and N. edges.

Surface rolling and level  
 Soil 3rd. rate sandy  
 good grass

North St. Sec. 13 and 18  
 Ta.  $13^{\circ} 20' E$

40.00 Over nearly level surface  
 Deposited marked stone  
 12 ins. in the ground  
 for "4" Sec. Cor. dug into  
 18 x 18 x 18 x 12 ins. N and  
 S. 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

4th aux. Mir. through Sta 24 N.  
Chains

over it. In N. pit,  
drove stake 2 ft. long  
2 ins. dia. 12 ins. in the  
ground marked "4 S."  
on N. face.

80.00

Set a line stake 6 x 3 ins., 15 ins. in  
the ground for Cor. to S. cs. 7-12-13-15 marked  
with 4 notch 10 on S. and 2 notch 10 on N. edges,  
dug pits 18 x 18 x 12 ins. in each cor., 5 1/2 ft.  
dist. and raised a mound with 1 1/2 ft. high,  
4 ft. base. along

Surface nearly level  
Soil 3rd. rate sandy  
Good grass

North pt. Sta. 7 and 12  
Sta. 18° 20' E  
Over nearly level land

4th aux. Mer. through Tps. 24 01-

Chairs

40.00 Set a lime stone,  $6 \times 12 \times 4$  ins.,  $1$  ins. in the ground for  $\frac{1}{4}$  Sec, Cor, marked  $\frac{1}{4}$  on N. face, dug pits  $18 \times 18 \times 12$  ins. N. and S. of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $1\frac{1}{2}$  ft. high,  $5\frac{1}{2}$  ft. base. alongside.

49.00 Indian trail brs,  $25^{\circ}$  E. and  $25^{\circ}$  N.

8.00 Set a lime stone  $20 \times 10 \times 4$  ins.,  $15$  ins. in the ground for Cor, to Secs, 1-6-7-12 marked with  $5$  notches on S. and  $1$  notch on N edges, dug pits  $18 \times 18 \times 12$  ins. in each Sec.,  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  $2$  ft. high,  $4\frac{1}{2}$  ft. base. alongside.

Surface nearly level  
Soil red rate  
Some sagittaria  
Good grass

North bet. Secs. 1 and 6  
Pa.  $13^{\circ} 20' E.$

4th Aux. Mon. through Sep. 24 or

Chains

Acid gradually over  
robbing land.

40.00

Set a lime stone, 16 x 12 x 7 ins., 11 ins.  
in the ground for 1/4 Sec, Cor, marked 1/4. on N.  
face, dug pits 18 x 18 x 12 ins. N. and S.  
of stone 5 1/2 ft. dist. and raised a mound of earth  
1 1/2 ft. high. 3 1/2 ft. base. alongside.

8.00

Set a cottonwood post,  
4 1/2 ft. long 4 ins. sq. with  
marked down 12 ins.  
in the ground for  
Closing Cor. <sup>on 6th. 24th</sup> to Sep. 24 or.  
R. 16 and 17 E. marked  
S. 6. S. 24 or. on S.  
R. 17 E. S. 4 or E.  
R. 16 E. S. 1 on N. face.  
with 4 notches on  
S. E. and N. face, dug  
pits 24 x 18 x 12 ins. cross-  
wise <sup>on each side</sup> S. E. and N. of post.

4th Aux. Mer. through Sp. 2400.

Chains

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

Surface gently rolling  
Soil 3rd. rate  
Good grass.

I carefully examined  
the adjustments of  
my Solar Compass  
to-day particularly  
the latitude and  
reversing apparatus  
and found them correct  
September 10th, 1882.

For final notes see Book No 20

U. S. Surveyor General's Office,  
Tucson, Arizona, July 21, 1883,

The foregoing Field Notes of the survey of the  
4<sup>th</sup> Auxillary Meridian through  
Townships 21, 22, 23 & 24 North,

of the Gila and Salt River Base and Meridian, Arizona,  
executed by O. W. Muller,  
D. S., under his contract of the 5<sup>th</sup> day of  
August, 1882, having been critically ex-  
amined and the necessary corrections and explanations  
made, the said Field Notes and the surveys they de-  
scribe, are hereby approved.

J. W. Robinson  
Surveyor General.