

Recd July 18. 93.

3.

page 121

1720

1720

BOOK 1720

4-671

FIELD NOTES

~~GENERAL LAND OFFICE.~~

\_\_\_\_\_ of the \_\_\_\_\_  
2<sup>nd</sup> Standard Parallel South  
\_\_\_\_\_ through \_\_\_\_\_  
Ranges 10. 11. 12. 13. 14 & 15 West.  
Arizona.

By Lewis Wolfley. Cont: N<sup>o</sup> 25.

Dated Jan. 16. 1893.

Survey commenced Apr. 15. 93.

" completed May 9. 93.

*Wad. M. 21*

31	32	33	34	35	36	31	32	33	34	35	36	
198	197	169	169	166	163	161	157	154	152	15	149	148

BOOK 1720

*Wad. M. 11*

31	32	33	34	35	36	31	32	33	34	35	36
141	139	137	136	134	132	129	128	126	125	123	121

BOOK 1720

*Wad. M. 15*

31	32	33	34	35	36
174	179	181	182	184	186

Stand. 14 Dec. En. 2  
 Nylon N. face and  
 mine. Et. W. A. K. B.  
 dist. and raised

1720

BOOK

122  
17202<sup>nd</sup> Stand. Par. D. Through R 10. West.Cherino From the Stand. Cor. to the  
N. S. R. 9<sup>th</sup> and 10<sup>th</sup> W. Just  
established

From

West on S. ldy. of Sec 36

9<sup>th</sup> 13° 38' E.40.00 Set a post 3 ft. long 3 ins.  
square with marked stone  
12 ins. in the ground for  
Stand. 1/4 Sec. Cor. marked 1/61/4 on N. face dug pits 18 x 18  
12 ins. E & W. of post 5 1/2 ft.dist. and raised a mound  
of earth 1 1/2 ft. high 3 1/2 ft. base  
around post80.00 Set a post 4 ft. long 4 ins  
square with marked stone  
12 ins. in the ground for  
Stand. Cor. to Secs. 35 & 36  
Marked

2<sup>nd</sup> Standard Parallel South

debris S. 6. T 9. S R 10. W. on N

006 on E. End

0 35 on W. faces with 1

notch on E. End 5 notches

on W. faces dug pits 18x18

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

Land level mesa

Soil 1<sup>st</sup> rate

Scattering grass wood

West on S. bdy. of Sec 35

T 9 130 30' E.

40.00 Set a post 3 ft. long 3 ins  
square with marked  
stone 12 ins. in the ground

rough. Range 10 west

For Stand.  $\frac{1}{4}$  Sec. Cor marked  
 S. C.  $\frac{1}{4}$  S. on N. face, dug pits 18x  
 18x12 ins. E & W. of first  $5\frac{1}{2}$  ft.  
 dist. and raised a mound  
 of earth  $1\frac{1}{2}$  ft. high  $3\frac{1}{2}$  ft. base  
 around each

Set a Malpais stone 14x12x8  
 ins. 9 ins. in the ground for  
 Stand. limits Secs 34 and 35  
 marked S. C. with 2 notches  
 on E. and 4 notches on W. face  
 and raised a mound of stone  
 $1\frac{1}{2}$  ft high 2 ft. base alongside

Pits unfracturable

Top of small butte raising 200  
 ft. high to South

Land level mesa

Soil 1<sup>st</sup> rate

Scattering greasewood

2<sup>nd</sup> Standard Parallel South

Chavis West on S. bdy. of Sec 34  
Va 130° 30' E.

40.00 Set a first 3 ft. long 3 in  
square with marked  
stone 12 in. in the ground  
for stand. 1/4 Sec. cor. marked  
S. 6 1/4 S on N. face, dug pits  
18 x 18 x 12 in. E and W. of  
first 5 1/2 ft. dist. and  
raised a mound of each  
1 1/2 ft. high, 5 1/2 ft. base  
around first

68.00 Wash 30 lbs. wide course

80.00 Set a Malpais stone 14 x 14 x  
6 in. 9 in. in the ground  
for stand. Cor. to Secs 33 + 34  
marked S. 6 on N with  
3 notches on E + W. faces  
and raised a mound of

Through Range 10 west

Charris stone  $1\frac{1}{2}$  ft. high 2 ft. base  
along side

Pito infracticable

Land mountainous 12 chs

" level mesa 68 chs

Soil 1<sup>st</sup> rate

Scattering greasewood

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West on S. bdy. of Sec 33

$4\frac{1}{2}$   $140^{\circ}10'E$

Ascending gradually

30.00 Ascend rapidly

40.00 Lava Malpais stone  $10 \times 10 \times 6$   
ins. 7 ins. in the ground for  
Stand. 1/4 Sec. En. marked S. 6 1/4  
on n. face, and raised a mound  
of stone  $1\frac{1}{2}$  ft. high 2 ft. base  
along side, Pito infracticable

2<sup>nd</sup> Standard Parallel South

- 40.05 Top of malpais ridge 600  
 ft. high betw N End & S End descend  
 53.50 Foot of descent and ascend  
 62.00 Top of ridge betw N End & S  
 500 ft. high and descend  
 79.25 Foot of slope and wash  
 course S. and ascend  
 88.00 Set a lime stone 20x14x6  
 ins. 14 ins. in the ground  
 for Standard. lerr. to Secs  
 32 and 33 marked S. 6. on  
 N. with 4 notches on E End  
 2 notches on W. faces  
 and raised a mound of  
 stone 1 1/2 ft. high 2 ft. base  
 alongside  
 Sets impracticable  
 Land mountainous & rocks



Through Range 10 west  
 Chain Soil Worthless  
 Scattering *Croton* and greasewood

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West on S. edge of Sec. 32  
 on  $14^{\circ} 15' E$

Ascending over broken ground

40.00 Set a limestone  $18 \times 14 \times 8$  in

12 in. in the ground for

stand. 1/4 Sec. Cor. marked

S. 1/4 on N. face, and raised

a mound of stone  $1\frac{1}{2}$  ft.

high 2 ft. base alongside

Pits unfracturable

Cor in saddle of mountain

700 ft. high and descend

over broken ground

55.00 Enter wash course westerly

57.00 Leave wash. " " 40 ft. wide

2<sup>nd</sup> Standard Parallel South

Chairo and continue descent

80.00 Set a porphyry stone 16x12  
x 8 ins. 11 ins. in the  
ground for Stand. lerr. to  
Secs. 31 and 32 marked  
P. l. on N. with 5 notches on  
E. and 1 notch on W faces  
and raised a mound of  
stone 1 1/2 ft. high 2 ft.  
base along side

Pits impracticable  
Land mountainous & rocks  
Soil worthless  
Scattering cacti and greasewood

West on S. bdy. of Sec 31

hd 14° 10' E.

Continue descent

## Through Range 10 west

Chans.

140.00 Lava front 3 ft. long 3 ins  
square with marked stone  
12 ins. in the ground for  
Stand. 1/4 Sec. cor. marked  
P. 6 1/4 D. on N. face, and raised  
a mound of stone 1 1/2 ft. high  
2 ft. base around front  
Pits impracticable  
From which  
a Palo verde 8 ins. diam low  
N 50° E. 25. lbs. dist. marked  
P. 6 1/4. S. C. T.

40.50 Wash 20 lbs wide course S. W

80.00 Lava front 4 1/2 ft. long 4 ins.  
square with marked stone 12  
ins. in the ground for Stand.  
lev. to Top. 9. S. R. 10 + 11 west  
marked

2<sup>nd</sup> Staud. Cor. S. through R10 west

Chains A. C. T. 9. S. on N

R10. W. D. 31 on E. End

R11 W. D. 36 on W. faces with  
6 notches on N. E. & W. faces  
any pits 24 x 18 x 12 ins  
crosswise on each line  
N.E. End W. of post 6 ft. dia  
and raised a mound of  
earth 2 ft. high 4 1/2 ft. base  
around post

Tray which

Am Ironwood 8 ins. diam less

N5° W. 180 lbs. dia. marked

T. 9. S. R. 11. W. A. C. D. 36. B. T.

Land mountainous & ch.

Soil worthless

Scattering Ironwood End

Palo Verde

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2<sup>nd</sup> Stand. Pos. I. Thoug. R. 11 2052

Chas. Before continuing any farther  
 west I take an observation  
 on the Sun and find the  
 latitude to be  $32^{\circ}35'$  and  
 the variation to be  $13^{\circ}45' E.$   
 and I find my Instrument  
 to be in perfect adjustment

See page 187 April 15<sup>th</sup> 1893

From the Stand. Cor. to  
 Tps. 9. S. R. 10 + 11. W. just  
 established

Iron

West on S. bdy of Sec 36  
 Va  $13^{\circ}45' E.$

Lean mountains and enter Mesa

40.00 set a post 3 ft. long, 3 ins  
 square with marked stone  
 12 ins. in the ground for

2<sup>nd</sup> Standard Paralled Smith

Chains Stand 1/4 Sec. cor. marked

S. 6 1/4 ft. on N face dug

futs 15x15x12 ins. E<sup>nd</sup>

W. of post 5 1/2 ft. dist. <sup>2<sup>nd</sup></sup>

raised a mound of earth

1 1/2 ft. high 3 1/2 ft. base around

post

52.00 Wash 20 lbs. wide course NW

68.00 Old Road less NW + S. E.

80.00 Lava post 4 ft. long 4

ins. square with marked

stone 12 ins. in the ground

for stand. less to Secs 35 + 36

marked

T. 9. S. R. 11. W. on N.

O. 36. on E. <sup>2<sup>nd</sup></sup>

O. 35 on W. faces with 1

notch on E. and 5 notches

on W. faces dug futs 15x15x

Through Range 11 West

Chain 12 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

Land level mesa

Soil 2<sup>nd</sup> rate

Scattering greasewood  
and Palo Verde and some  
grass

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West on S. ldy. of Sec 35

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

H0.00 Set a post 3 ft. long 3 ins. square  
with marked stone 12 ins. in  
the ground for stand. 1/4 sec  
was marked S. 6 1/4 E. on 2 face  
dig pits 18 X 18 X 12 ins. E. W. of  
post  $5\frac{1}{2}$  ft. dist. and raised a

2<sup>nd</sup> Standard Parallel South

Chains mound of earth  $1\frac{1}{2}$  ft. high  
 $3\frac{1}{2}$  ft. base around post  
 80.00 Cera post 4 ft. long 4 ins  
 square with marked  
 stone 12 ins. in the ground  
 for Stand. Cor. to Secs. 34 +  
 35 marked

S. E. 59. A R. 11. W. on N

D 35 on E. End

D 34 on W. face with 2  
 notches on E. and 4  
 notches on W. faces dug  
 pits  $15 \times 15 \times 12$  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

Land level mesa

Soil 1<sup>st</sup> rate



## Through Range 11 West

chain Scattering greasewood  
and grass

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West on S. bdy. of Sec. 34  
Pd  $13^{\circ}45'E$

- 40.00 Set a post 3 ft. long 3 ins square with marked stone 12 ins. in the ground for Stand. 14 Sec. 33. Marked P. 6-1140. on N face dug pits  $18 \times 18 \times 12$  ins. E & 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. base around post
- 80.00 Set a post 4 ft. long 4 ins square with marked stone 12 ins. in the ground for Stand. cor. to Secs. 33 and 34

2<sup>nd</sup> Standard Parallel South

Chairs marked

S. 6. T 9. S R 11. N. on N

S 34. on E. end

with 3 notches on E<sup>nd</sup> and W. face.

S 33 on W. face dug feet

18x18x12 ins. N. E. &amp; 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 mesa

Soil 1<sup>st</sup> rate but sandy

Scattering greasewood

West on S. body of Sec 33

of a 130 45' E.

40.00 Set a post 3 feet long 3 ins. square  
 with marked stone 12 ins  
 in the ground for stand 14

## Through Range 11 West.

Cham. Sec cor. marked P. 6 1/4 S. on N  
face, dug pits 18x18x12 ins  
E & W. 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

80.00. Lava post 4 ft. long 4 ins  
square with marked stone  
12 ins. in the ground for stand.  
Cor. to Secs 32 and 33 marked  
P. 6, T. 9, S. R. 11, W. N. N

S 33 on E. End

S 32 on W. faces with 4 notches  
on E. End 2 notches on W. faces  
dug pits 18x18x12 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  
Land level mesa

2<sup>nd</sup> Standard Parallel South

Cherms Soil 1 $\frac{2}{3}$  rate  
 Scattering grasswood

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West on S. bdy. of Sec. 32  
 N 13° 45' E.

- 40.00 Set a post 3 ft. long 3 ins square with marked stone 12 ins. in the ground for stand. 1/4 Sec cor. marked S. 6 1/4 S. on N. face, dug pits 18 x 18 x 12 ins. E or W of post 5 1/2 ft. dist. and raised a mound of loach 1 1/2 ft. high 3 1/2 ft. base around post
- 80.00 Set a post 4 ft. long 4 ins. square with marked stone 12 ins. in the ground for stand Cor. to Secs 31 + 32

## Through. Range 11 West

Stems marked

D.C. 59, 1 R 11. W. on N

D 32. on E. end

D 31 on W. faces with 5 notches  
 on E. end and 1 notch on W. faces  
 dug pits 18x18x12 ins. N. E. & W  
 of foot 5 1/2 ft dist. and raised  
 a mound of earth 2 ft. high  
 4 1/2 ft. base around foot  
 Land level mesa

Soil 1 3/4 rate

Scattered grasswood brush

Good Stand Par. S. Through. R 11 West

chain high 5 ft. base around  
frost.

Land level mesa

Soil 1<sup>st</sup> rate

Scattering greasewood

April 15<sup>th</sup> 1893

At this point I find that  
75.50 chain error, and  
I sent my men back  
to verify the standard  
which took them 15 days  
and on their return they  
reported that the lines  
were all right and had  
all been set correctly  
I then proceeded to complete  
the standard.

2<sup>nd</sup> Stand. Part. I. Through. R 12 West

Chamie<sup>then</sup> From the Stand Cor. to  
Tps. 9 S R. 11 E and 12 W.  
just established

Run

+ West. on S. bdy. of Sec 36  
S 89° 13' 45" E

40.00 Set a post 3 ft. long 3 ins  
square with marked  
stone 12 ins. in the ground  
for Stand. 1/4 Sec. Cor. marked  
S 86° 14' S. on N. face dug pits  
18 x 18 x 12 ins. E & W. 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

80.00 Set a post 4 ft. long 4 ins  
square with marked stone  
12 ins. in the ground for  
Stand. Cor. to Secs. 35 & 36

2<sup>nd</sup> Standard Parallel South

chains marked

S. 65. 91 R 12 W. n N

S 36. on E. End

S 35. on W. faces with  
 1 notch on E. and 5 notches  
 on W. faces dug pits 18 x 18  
 x 12 ins. N. E. & W. of foot  
 5 1/2 ft. dist. and raised  
 a mound of earth 2 ft.  
 high 4 1/2 ft. base around  
 from

Land level mesa

Soil sandy 1/2 rate  
 Scattering greasewood  
 and Sage brush

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## Through Range 12 West

Chain West on S. bdy. of Sec 35

Pa  $13^{\circ} 45' E$ 

40.00 Set a post 3 ft. long 3 ins square with marked stone 12 ins. in the ground for Stand. 44 Sec. Cor. marked S. 6 1/4 P. on N. face, dug pits 18 x 18 x 12 ins. E & W. 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

80.00 Set a post 4 ft. long 4 ins square with marked stone 12 ins. in the ground for Stand. Cor. to Secs 34 + 35 marked

S. 6. 79. S. R 12 W. on N

S 35. on E End

S 34. on W. faces with notches

2<sup>nd</sup> stand Parallel Smith

Chairs on E. end of notches  
 on W. faces Aug pits 15x  
 15x12 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

Land level mesa

Soil 1<sup>st</sup>/<sub>2</sub> rate

Scattering greasewood  
 And Sage brush

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West on S bdy. of Sec 34

Qa 13° 45' E

45.00 Set a post 3 ft. long 3  
 ins. square with marked  
 stone 12 ins. in the ground  
 for stand 1/4 Sec or marked

## Through Range 12 West

Clearing S. E. 1/4 on N. face, dug pits  
 18x18x12 ins. E and W 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  
 80.00 Set a post 4 ft. long 4 ins  
 square with marked  
 stone 12 ins. in the ground  
 for stand cor. to Sec 33 and 34  
 marked

S. 6. 29. 0. R 12 W. on N

S 34 on E. End

S 33 on W. faces ~~with 3 notches~~  
~~on E + W. faces, dug pits~~  
 18x18x12 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  
 Land level mesa

2<sup>nd</sup> Standard Parallel SouthCharris Soil 1<sup>st</sup>/<sub>4</sub> rateScattering greasewood  
and Sage brush

West on S. bdy. of Sec. 33

N<sup>72</sup>W 130°45'E

40.00 Set a post 3 ft. long 3 ins  
square with marked  
stone 12 ins. in the ground  
for Stand. 1/4 Sec. Cor  
marked C. C. 1140. on N. face  
dug pits 18X18X12 ins. E  
+ W 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

80.00 Set a post 4 ft. long 4  
ins. square with marked

## Through Range 12 West

chain Stone 12 ins. in the ground  
for stand. lev. to Secs. 32+33  
marked

A. G. T. G. R. 12 W. on N

D 33 on E. End

<sup>34</sup>  
D 32 on W. faces with 4  
~~notches on E. and 2 notches~~  
~~on W. faces, dug pits 18x18~~  
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

Land level mesa

Soil 1<sup>st</sup>/<sub>11</sub> rate

Scattering greasewood  
and Sage brush

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2<sup>nd</sup> Standard Parallel South

Charris West on S bdy. of Sec 32  
T<sub>1</sub> N 13° 45' E

- 4.00 Wash 20 lks. wide course N.E
- 40.00 Set a frost 3 ft. long 3 ins  
square with marked  
stone 12 ins. in the ground  
for stand. 1/4 Sec. Cor  
marked P. C. 1/4 S. on N. face  
dug pits 18x18x12 ins  
E. & W. of frost 5 1/2 ft. dist  
and raised a mound  
of earth 1 1/2 ft. high 3 1/2 ft.  
base around frost
- 80.00 Set a frost 4 ft. long 4  
ins. square with marked  
stone 12 ins. in the ground  
for stand. Cor. to Secs. 31 & 32  
marked  
P. C. 1/4 S. R 12. W on N

# Through Range 12 West

Chain <sup>31</sup> 32 on E. End

33. 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. dist. and raised  
a mound of earth 2 ft. high  
4 1/2 ft. base around post  
Land level mesa

Soil 1<sup>st</sup> rate

Scattering Mesquite + Sage  
brush

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West on S. bdy. of Sec 31  
Pa.  $13^{\circ} 45' E$

5.40 Mash 20 lbs. wide course N. E.  
4000 Set a post 3 ft. long 3 ins  
square with marked  
stone 12 ins. in the ground

2<sup>nd</sup> Stand Par. D. Through R. 12<sup>th</sup> N.

Arms

Land level mesa

Soil 1<sup>st</sup>/<sub>4</sub> sate

Scatteing greasewood

and Sage brush

May 1<sup>st</sup>/<sub>4</sub> 1893

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Take an observation  
on the sun and find the  
latitude to  $32^{\circ} 35'$  the variation  
 $13^{\circ} 35' E$  and find my  
Instrument to be in perfect  
adjustment. See page 187.

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2<sup>nd</sup> Stand. Par. I. Through R. 13<sup>th</sup> W

Chains From the Stand. Cor. to Tho  
9<sup>th</sup> S. Co. 12<sup>th</sup> and 13<sup>th</sup> W. just estab-  
lished

Iron

West on S. vdy. of Sec 36

Pa 130° 35' E.

ascending gradually

21.30 Wash 35<sup>th</sup> lvs. wide course N. E. only

48.00 Set a post 3 ft. long 3 ins.  
square with marked stone  
12 ins. in the ground for Stand.

1/4 Sec. cor. marked 16 1/2 ft. on

N. face, dug pits 18 x 18 x 12 ins

E. W. of post 5 1/2 ft. dist. End

raised a mound of earth 1 1/2 ft  
high 3 1/2 ft. base around post

74.00 Wash 20 lvs wide course N. W

80.00 Set a post 4 ft. long 4 ins  
square, with marked stone

2<sup>nd</sup> Standard Parallel, South

Cherins 12 ins. in the ground for  
Stand. Corr. to Sec 35 and 36  
marked

D. 6 59. S. R. 13. W. on N

D. 36. on E. End

D. 35. on W. faces with 1  
notch on E. End 5 notches  
on W. faces dug pits 18 x 18  
x 12 ins. N. E. or 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 gradually ascending

Sail 30<sup>th</sup> gate

Scattering Ironwood and Palo Verde

West on S bdy. of Sec 35  
of a 13<sup>th</sup> 35-E

## Trough. Range. 13. West

Chum

- 40.00 Set a post 3 ft. long 3 ins square with marked stone 12 ins. in the ground for stand  $\frac{1}{4}$  Sec. cor marked S. 6  $\frac{1}{4}$  S. on N. face dug pits 18 x 18 x 12 ins. E. & 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. base around post
- 41.00 Wash 1 ch wide course N. Easterly
- 62.00 Enter wash 50 lbs. wide course Easterly
- 64.00 Lean wash
- 80.00 Set a post 4 ft. long 4 ins square with marked stone 12 ins in the ground for stand cor. to Secs. 34 End 35 marked S. 99. S. R 13 W. on N. P 35. on E. End

2<sup>nd</sup> Standard Parallel South

Chains S. 34. on W. faces with 2 notches  
 on E. End 4 notches on W. faces  
 dug pits 15 x 15 x 12 ins. N. E  
 1/2 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 ascending

Soil 5<sup>th</sup> rate

Scattering Ironwood & Palo  
 Verde

West on S. bdy. of Sec 34  
 Pa 10° 35' E

Ascending gradually

7.00 Old road to N. End  
 24.00 Wash 35 lks. wide course Easterly  
 40.00 Set a post 3 ft. long 3 ins

## Through Range 132 West

42.00 4 in square with marked stone  
12 ins. in the ground for Stand.  
1/4 Sec. cor. marked P. 6 1/4 in  
N. face and raised a mound  
of stone 1 1/2 ft. high 2 ft. base  
around post

Path impracticable

42.00 Ascend ridge

50.60 Top of low ridge bet N.E. & S.W.  
and along N slopes

61.00 Wash 30 lbs. wide course N.E.  
and foot of slope

77.00 Wash 1 ch. wide course N.E.

80.00 Set a post 4 ft. long 4 in  
square with marked stone  
12 ins. in the ground for  
Stand. cor. to Secs. 33 & 34  
marked

P. 6. T. 9. S. R. 13. W. N. N

2<sup>nd</sup> Standard Parallel South

34 on E. End  
 33 on W. face with 3  
 notches on E. and W. faces  
 and raised a mound of  
 stone  $1\frac{1}{2}$  ft. high 2 ft. base  
 around foot

Pits impracticable

Land broken

Soil 3<sup>rd</sup> rate

Scattering Ironwood and  
 Palo verde

West on C. body. of Dec. 33  
 Va  $130^{\circ} 30' E$

Ascend more rapidly

24.00 Along S. slopes of ridge to N

33.00 Leave slopes and ascend

40.00 Set a Malpais stone  $12 \times 10 \times 8$

## Through Range 13 west

Chambers, 8 ins. in the ground for  
 Stand. 1/4 Sec. cor. marked S6  
 1/4. on N. face, and raised a  
 mound of stone 1/2 ft. high  
 2 ft. base alongside  
 Pits infradictable

60.00 Enter wash course N. E.

64.00 Leave wash

80.00 Set a post 4 ft. long 4 ins.  
 square with marked stone  
 12 ins. in the ground for Stand.  
 Cor. to Secs 32 + 33 marked  
 S. 6. T. 9. S. R. 13. W. or N

S 33 on E. End

S 32. on W. faces with 4 notches  
 on E. and 2 notches on W. faces  
 and raised a mound of  
 stone 1/2 ft. high 2 ft. base  
 around post

2<sup>nd</sup> Standard Parallel South

clearing

Pits impracticable

Land mountainous 80 chs

Soil worthless

Scattering Ironwood &amp; Palo Verde

West on S. bdy. of Sec. 32  
 of Q 13° 30' E.

36.00 Wash 20 lks. wide course N.E.  
 and ascend

40.00 Set a malpais stone 14x14x12  
 ins. 9 ins. in the ground for  
 stand. 1/4 Sec. cor. marked  
 A. G. on N. face, and raised  
 a mound of stone 1 1/2 ft.  
 high 2 ft. base alongside  
 Pits impracticable  
 Foot of Impracticable  
 Mountain. so I return to a  
 point on South bdy. of Sec. 32



## Through Range 13. West

Chain 33.00 chs. and run on offset  
North 30. chs.

Thence I run 1 mile and 32 chs.

N  $83^{\circ}50'W$ . Thence 69. chs

S  $83^{\circ}50'W$ . and Thence S. 34.55. chs

The Traverse Table shows  
that the difference in departure  
is 4.57. chs. and 2 miles and 19  
chs and 96 lbs. being the  
distance on Standard from  
point of leaving <sup>on the E. side</sup> to the  
point of return on the W.  
side of the Mohawk Mts

From the point of return  
on W. side I run East 6. chs  
to a large boulder, being  
the foot of the high Mountain  
which I mark W. C. S. C.  
for Witness Cr. to Stand.

2<sup>nd</sup> Standard Parallel South

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

Pits impracticable

Thence Iron

Wash on S. bdy. of Sec. 36

T. G. S. R. 14. W.

33.00 Set a limestone  $16 \times 12 \times 8$   
ins. 11 ins. in the ground  
for Stand. lev. to Secs  
35 and 36 marked S. 6 on  
N. with 1 notch on E. End 5  
notches on W. faces and  
raised a mound of stone  
 $1\frac{1}{2}$  ft. high 2 ft. base alongside

Pits impracticable

The top of a ridge on the  
Mohawk range bet. N.W. & S.E.  
and is about 1100 ft. high

## Through Range 14 West

Chain at point crossed but 1800  
ft. high where line crosses.

Land mountainous

3 miles Hchs. and STEPs

Soil worthless

May 2/93

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West on S. bdy. of Sec 35

9a 13° 30' E.

Descending

5:50 Enter wash course westerly

8:20 Leave wash

40.00 Set a post 3 ft. long 3 ins. square  
with marked stone 12 ins.  
in the ground for stand. 14  
Sec. cor. marked 16 14 on N face  
and raised a mound of  
earth and gravel 1 1/2 ft. high 3 1/2

2<sup>nd</sup> Standard Parallel South

4 inis ft. base around foot

Pits infracticable

50.00 Wash 40 lbs. wide course & W

80.00 Set a foot 4 ft. long 4 inis  
square with marked stones  
12 inis. in the ground for  
Stand. lev. to Secs. 34 & 35  
marked

D. 6. 79. S. Q. 14. W. on N

D 35. on E. end

D 34. on W. faces with 2 notches  
on E. and 4 notches on W. faces  
dug pits 15 x 15 x 12 inis. N. E & W  
of foot 5 1/2 ft. dist. and  
raised a mound of earth  
2 ft. high 4 1/2 ft. base  
around foot

Land nearly level  
soil 3<sup>rd</sup> rate

Through Range 142 West  
 Chain Scattering Ironwood + Palovandi

West on S. bdy. of Sec 34  
 9<sup>th</sup> 13030'E

- 40.00 Set a post 3 ft. long 3 ins. square  
 with marked stone 12 ins  
 in the ground for Stand. 14  
 Sec. cor. marked S.E. 1/4 P. on N  
 face dug pits 18 X 18 X 12 ins  
 E & W. 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
- 80.00 Set a post 4 ft. long 4 ins.  
 square with marked stone  
 12 ins. in the ground for Stand.  
 cor. to Secs. 33 and 34 marked  
 marked  
 S.E. 1/4 S. R 14 W. on N

2<sup>nd</sup> Standard Parallel South

Quarry S. 34. on E. End

S 33. on W. faces with 3  
notches on E & W. faces. dug  
futs 18x18x12 ins. N. E & W  
of frost 5 1/2 ft. dist. and  
raised a mound of earth  
2 ft. high 4 1/2 ft. base around  
frost

Land level mesa

Soil 10<sup>th</sup> rate

Scattering greasewood  
and sage brush

Wrest on S. bdy. of Sec 33  
of 130° 30' E

30.00 ascend sand ridges

40.00 Set a frost 3 ft. long 3 ins  
square with marked stone

## Through Range 14 West

12 ins. in the ground for stand.  
 14 Sec. cor. marked S 6 1/4 S. on  
 N. face, dug pits 18x18x12 ins  
 E & W. of foot 5 1/2 ft. dist. and  
 raised a mound of earth  
 1 1/2 ft. high 3 1/2 ft. base around  
 foot

80.00 Set a foot 4 ft. long 4 ins  
 square with marked stone  
 12 ins. in the ground for stand.  
 cor. to Secs. 32 and 33 marked  
 S 6. P 9. R 14. W. on N  
 S 33 on E. End  
 S 32 on W. faces with 4 notches  
 on E. and 2 notches on W. faces  
 dug pits 18x18x12 ins. N. E & W. of  
 foot 5 1/2 ft. dist. and raised a  
 mound of earth 2 ft. high 4 1/2  
 ft. base around foot

2<sup>nd</sup> Standard Parallel South

Chains on Top of sand ridge 200 ft.  
high

Sand mountainous 50 chs

" Mesa 30 "

Soil sandy 1<sup>st</sup> rate on Mesa

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West on S. bdy. of Sec. 32  
1<sup>st</sup> Qd 130° 30' E.

40.00 Set a post 3 ft. long 3 ins  
square with nailed stone  
12 ins. in the ground for  
Stand. 14 Sec. Cor. marked  
S. E. 1/4 S. on N. face dug pits  
18 x 18 x 12 ins. E. W. 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.



## Through Range 14 West

Omanis

80.00 Set a post 4 ft. long 4 ins.  
square with marked stone  
12 ins. in the ground for  
Stand. lev. to Sec 31 and 32  
marked

S. 65.9. S. Q. 14. W. on N

S 32. on E. End

S 31. on W. faces with 5 notches  
on E. end / notch on W. faces  
dug pits 18x18x12 ins. N. E.  
+ W. of post 3 1/2 ft. dist. and  
raised a mound of earth  
2 ft. high 4 1/2 ft. base around post  
Low mountainous peaks  
and hills fully 300 ft.  
high

Soil 2<sup>nd</sup> rate

2<sup>nd</sup> Standard Parallel South

Quinn West on S. side of Sec 31  
 T<sub>4</sub> 13° 30' E

## Overland Hills

40.00 Set a post 3 ft. long 3 in  
 square with marked  
 stone 12 in. in the ground  
 for Stand 1/4 Sec. or marked  
 P. 14 S. on N. face, dug pits  
 18 x 18 x 12 in. E & W 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

## 44.60 Leave Grand Hills

80.00 Set a post 4 1/2 ft. long 4  
 in. square with marked  
 stone 12 in. in the ground  
 for Stand. Cor. to T<sub>4</sub> S. 9. S.  
 R. 14:15 W. marked  
 S. 6 T<sub>4</sub> S. on N

Through Range 14 West

Section R 14. W. S. 31 on E. End

R 15 W. S. 36 on W. face with 6  
notches on N. E. W. faces, dug  
futs  $24 \times 18 \times 12$  ins. crosswise  
on each line N. E. & W. of post  
6 ft. dist. and raised a mound  
of earth  $2\frac{1}{2}$  ft. high 5 ft. base  
around post

Land 44 che Mountainous

Soil worthless

Land 36. ds. Mesa

Soil sandy loam 1<sup>st</sup> rate

May 3<sup>rd</sup> 1893

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2<sup>nd</sup> Standard Parallel South

Chamis From the Stand. Cor. to Tps  
9 S. Rs. 14 and 15 W. just  
established

From

West

on a round on S. vdy.  
of Tps. 9 S & 15 W. the  
variation of my compass  
being  $13^{\circ} 30' E$ .

I set temporary half mile  
and mile legs at each  
40 and 80 chs. and at 5  
miles and 2 chs. I intersect  
the range line bet. Rs. 15 & 16  
W. Tps 9 S. 17 chs. N. of  
where I estimate the cor.  
to Tps. 9 and 10 S. Rs. 15 & 16 W  
to be

a careful search within a

## Through Range 15 West

Chain radius of  $\frac{1}{2}$  of a mile and  
 on an open plain I failed  
 to discover any old levor  
 with which to connect the  
 Standard with the Range line  
 to Tps. 9. S. Rs. 15 and 16. W  
 I therefore estimate the  
 convergency from Rs. 12 + 13 W  
 Tps. 7. S. Closing of the  
 Guide Meridian at 138. lks.  
 and set my closing levor  
 2 chs. N. of stand lev. to Sec  
 31 and 32, a search of .6 miles  
 N. failed to discover any  
 signs of levor, notwithstanding  
 that I had closed on the cor  
 to Tps. 8. 9. S. Rs. 13 + 14 West  
 practically the same  
 closing as above given and

177

2<sup>nd</sup> Standard Parallel South  
 chains had there been any signs  
 of old levee I would  
 certainly have found them  
 I am therefore lead to  
 believe that the levee. were  
 never run in West of the  
 Sand Mountains.

I set a post 4 1/2 ft. long  
 4 ins. square with nacked  
 stone 12 ins. in the ground  
 for blowing lev. to Stand.  
 Tps. 9. South Rs. 15 and 16. W  
 marked

C. L. S. T. 9. S. W. on N. E

R 15. W. on E. faces with  
 6 notches on N and 5 notches  
 on E faces. dug pits 24 x 18 x  
 12 ins. crosswise on each  
 line N and E. of post 6 ft

Through Range 15 West

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

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Thence I run

East on S. ldy. of Sec 31  
Pd  $130^{\circ} 30' E.$

2.00 Set a post 4 ft. long 4 ins  
square with marked stone  
12 ins. in the ground for stand  
low to Sec 31 and 32. marked  
S. 6. 59. S. R 15. W. 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  $18 \times 18 \times 12$  ins. N. E. & W  
of post  $5\frac{1}{2}$  ft. dist. and raised  
a mound of earth 2 ft. high

179

2<sup>nd</sup> Standard Parallel South

Chanis 4 1/2 ft. base around foot  
Land level mesa

Soil 1 1/4 rate

Scattering of greasewood and  
Sage Brush

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East on S. bdy. of Sec 32  
74° 13' 30" E.

40.00 Set a post 3 ft. long 3 ins.

Square with marked stone  
12 ins. in the ground for  
Stand. 1/4 Sec. Cor. marked  
S. 6 1/4 S. on N. face. dug pits  
15 x 15 x 12 ins. 3/4 W. of post  
3 1/2 ft. dist. and raised a  
mound of earth 1 1/2 ft. high  
3 1/2 ft. base around post



## Through Range 15 West

Charris

81.00 Set a post 4 ft. long 4 ins  
square with marked  
stone 12 ins. in the ground  
for Stand. Cor. to Sea. 32 + 33  
marked

O. b. 59.0 R 15 W. m N

53 on E. End

532 on W. face with 4 notches  
on E. and 2 notches on W face  
dug pits 18x18x12 ins. N.E  
& W. of post 5 1/2 ft. dist. End  
raised a mound of earth  
2 ft. high 4 1/2 ft. base  
around post

Land level mesa

Drill 1 1/2 rate

Scattering grosewood End

Sage brush

187

BOOK 1720

2<sup>nd</sup> Standard Parallel South

Acarius East on S. bdy. of Sec 33  
Pa. 10°30' E.

40.00 Set a post 3 ft. long 3  
ins. square with marked  
stone 12 ins. in the ground  
for Stand. 1/4 Sec. cor. marked  
S. 6 1/4 S. on N. face, dug pits  
18x18x12 ins. E. W. 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

80.00 Set a post 4 ft. long 4 ins  
square with marked  
stone 12 ins. in the ground  
for Stand. cor. to Secs. 33+34  
marked

P. 6. 79. S. R 15. W. on N

034 on E<sup>nd</sup>

033 on W. faces with 3

Through Range 15. West

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

Land level mesa

Soil 1<sup>st</sup> rate.

Scattering grasswood and  
 Sage brush

East on S. bdy. of Sec 34

$70^{\circ}13'30''$  E.

40.00 Set a foot 3 ft. long 3 ins  
 square with marked stone  
 $12$  ins. in the ground for  
 Stand 14 Sec. cor. marked  
 S. to 14 S. on N. face, dug pits

2<sup>nd</sup> Standard Parallel South

Charris 18x18x12 ins. E or 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. base around post

80.00 Set a post 4 ft. long 4 ins  
square with rounded  
stone 12 ins. in the ground  
for Stand. Cor. to Secs. 34 & 35 -  
marked

S. 6 T. 9. S R. 15. W. on N

S 35. on E. End

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

notches on E. edges. aug  
posts 18x18x12 ins. N. E. or W  
of post 5 $\frac{1}{2}$  ft. dist. and  
raised a mound of  
earth 2 $\frac{1}{2}$  ft. high 4 $\frac{1}{2}$  ft.  
base around post

Through Range 15 West

Chamie Land level mesa

Soil 1<sup>st</sup>/<sub>2</sub> rate

Scattering greasewood and Sage brush

East on S. bdy. of Sec. 35  
78 13°30'E

40.00 Set a post 3 ft. long 3 ins square with marked stone 12 ins. in the ground for stand. 1/4 Sec. cor. marked S. 6 1/4 S. on N. face dug pits 18 x 18 x 12 ins. E or W of post 5 1/2 ft. dist. and raised a mound of each 1 1/2 ft. high 3 1/2 ft. base around post

55.40 Top of low sand ridge bet N. S

80.00 Set a post 4 ft. long 4 ins

2<sup>nd</sup> Standard Parallel South

chains square with marked stone  
12 ins. in the ground for  
Stand. corr. to Secs 35 and 36  
marked

S. 6. T. 9. S. R. 15 W. on N.

S. 36. on E. End

S. 35. on W. faces with 1  
notch on E End 5 notches  
on W. faces, dug pits 18x18x  
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  
Land level mesa

Soil 1<sup>st</sup>/<sub>11</sub> rate

Scattering grassweed and  
sage brush

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Through Range 15 West

Chains East on S. bdy. of Sec 36  
 of 130° 30' E.

40.00 Set a post 3 ft. long 3 ins  
 square with marked  
 stone 12 ins. in the ground  
 for Stand. 1/4 Sec. cor. marked  
 P. 6 1/4 S. on N face. dug pits  
 18 x 18 x 12 ins. E. & W 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  
 80.00 The stand cor. to the 95 Rod 4 x 15 W.  
 as ~~marked~~ and level the same

Soil 1<sup>st</sup> rate

Scattering greasewood and  
 Sage brush

May 9-1893  
 Lewis Dole  
 U.S. Deputy Surveyor

187 - Manner of testing -

BOOK 1720

Young & Sons Light Mountain Transit  
with Smith's Solar Attachment,

Before noon I place the plates of my transit at 0, set off the latitude and departure, and set the telescope on the Meridian, and clamp it there; I then unclamp the plates, adjust a Sun-glass to the object end of the telescope, and when necessary a diagonal-eye-glass; I then place the vertical wire of both the telescope and the solar-glass accurately on the Sun; with the telescope I take the altitude of the Sun, and from this last the latitude arc. I find this an exceedingly accurate method, for as the Sun on reaching its altitude, travels for a space on a tangent, it gives true accurate adjustment. After noon I again clamp the plates at 0, and with the tangent screw set off on the vernier, the difference if any from the first setting, and correct the variation accordingly.



U. S. Surveyor-General's Office,

TUCSON, A. T., Apr. 30 1894

The foregoing Field Notes of the Surveys of  
Retracem<sup>t</sup>. of 2<sup>nd</sup> S<sup>t</sup>. & S thro: R. 1 E.  
& Pp.<sup>l</sup>. merid<sup>n</sup> thro 10 & 11 S. and  
the 2<sup>nd</sup> Standard S thro R 1 to  
-15 inclusive Gila and Salt River Meridian  
in Arizona — executed by

Lewis Wolfley

U. S. Deputy Surveyor, under his contract dated

January 16, 1893.

having been critically examined, the necessary correc-  
tions and explanations made, the said Field Notes and  
the surveys they describe are hereby approved.

L. A. Manning

U. S. Surveyor-General  
for the Territory of Arizona.