

BOOK 1510

Book No. 6

looked

See Index

# Field Notes

1510

OF THE SURVEY OF

The

South Standard Parallel S.  
through Ranges 18, 19, 20  
and 21 E.

BOOK 1510

1510

1510

Compared

Gila and Salt River Base and Meridian

**ARIZONA.**

By J. B. McLaughlin D. S.

Under contract dated June 18 1888

Survey commenced Feb. 11<sup>th</sup> 1884

Survey completed Feb. 14<sup>th</sup> 1884

See Resurvey thro' Rs. 19-20 & 21 E.

A

BOOK 1510

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Fourth Standard Per. A. through  
 Range 21 - Pgs. 1 to 10 incl.  
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BOOK 1510

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Ret. Per.  
 20 & 21.

1510

For description of Inst.  
used and preliminary tests  
see "Book No. 2."

Fourth Standard Parallel South  
Chains

From the Standard Corner  
to Tps. 20 ~~42~~ S., Rgs. 17 & 18 E.  
recently described by me  
I ran E. on a random  
line through Rgs. 18, 19, 20 and  
21 E. At 24 miles 1.24 Chs.  
I intersect range line bet.  
Rgs. 21 <sup>and</sup> 22 E., 18.65 Chs. N.  
of <sup>Stand</sup> cor. to Tps. 20 ~~42~~ S.,  
Rgs. 21 <sup>and</sup> 22 E. which is a  
Limestone firmly set in the  
ground marked S.C. with @  
notches on N. E. & W. edges  
with mound of stone  
alongside. My connection  
will therefore be 1.24 Chs. E.  
and 11.7 lks. S. per mile  
and my return course  
will be N 89° 27' W. on  
a true line

## Through Range No. 21 East.

Chains

Thence I run

N. 89° 27' W. on S. side Sec. 36

Va 122 42' E.

- .60 Road - bns. N.E. & S.W.
- 3.35 Wash. - Course S.W.
- 23.32 Wash. - " S.W.
- 38.00 Road bns. N.W. & S.E.
- 40.00 Set a Granite stone 14 x 10 x 6 ins  
10 ins. in the ground for Standard  
1/4 Dec. Cor. marked 1/4 S.C. on  
N. face and raised a mound  
of stone alongside; pits  
impracticable.
- 43.00 Road - bns. N.E. & S.W.
- 57.39 Telegraph line - Limestone  
to Charleston - bns. N.E. & S.W.
- 71.91 Intersect E. bdy. of San Juan de  
las Boquillas y Nogales Grant  
87.26 Chs. from S.E. cor. for N.E.  
Set a Granite stone 16 x 12 x 10 ins.  
10 ins in the ground for Closing  
corner marked C.C. on E.,

## South Standard Parallel South

Mines

- S. J. B. M. on N. faces and  
raised a mound of stone  
alongside
- 79.39 Tombstone and Charleston  
Wagon Road - hrs. N.E. & S.W.
- 80.00 Set a Granite Stone 14x12x9 ins.  
9x ins. in the ground for Standard  
Cor. to Secs. 35<sup>2</sup> & 36, marked  
S.C. on N., with 1 notch on E. and  
5 notches on N. edges, and  
raised a mound of stone  
alongside; pits impracticable -  
Altitude 4500 ft.  
Land - broken  
Soil, rocky - 4<sup>th</sup> rate  
Dense briar and catclaw -

## Through Range 21 East.

Chains

N. 89° 27' W. on S. side Sec. 35 -  
 1/2 12° - 42' E.

Ascend

- 25.00 Top Mt. bro. N. 45° S. descend  
 35.00 Foot of <sup>Wash</sup> <sup>9.5 miles wide</sup> <sup>Conna</sup> S. W. and  
 ascend  
 40.00 Set a granite stone 12 X 10 X 8 ins.  
 8 ins. in the ground for standard  
 1/4 sec. cor. marked S. C. 4 on N.  
 face and raised a mound  
 of stone alongside - pits imprac-  
 ticable -  
 50.00 Top of Mt. bro. N. E. 45° S. W.  
 descend  
 74.00 Charleston <sup>and</sup> Contention  
 telegraph line - bro. N. 45° S.  
 foot of hill -  
 75.00 Wagon Road - bro. N. 45° S.  
 77.00 San Pedro River 90 lbs. wide.  
 Course N. 10° W.  
 78.50 Ditch - Drs. North -

## Fourth Standard Parallel South

Main

8000 Set a Granite stone 14X14X12 ins.  
 10 ins. in the ground for Standard  
 Cor. to Secs. 34 & 35 marked  
 S.C. on N., with 2 notches on  
 E. and 4 notches on W. edges  
 and raised a mound of stone  
 alongside, pits impracticable -  
 Altitude 4400 ft.  
 At base of Mt.

Land - Mountainous  
 Soil - rocky - 4<sup>th</sup> ratio  
 Dense briar and cactus brush

N. 89° - 27' W on S. side Sec 34  
 Pa. 12° - 42' E.

Ascend Mt.

2500 Top on N. slope - base N & S.

Descend

4000 Stone in place 12X12 ins. <sup>2 ft</sup> cor.  
 above <sup>ground which</sup> marked X at <sup>each</sup> point  
 for Standard 1/4 Sec. Cor.



through Range 21 East.  
chains

marked N. of cross S.C.  $\frac{1}{4}$   
and raised a mound of  
stone alongside - pits imprecise  
67.20 Intersect N. bdy. of San Juan de los Rios  
Quivellas y Nogales Grant 1 mile 34.30 chs.  
from S. W. Cor. set a stake 4 ft long  
3 ins sq. 18 ins. in the ground for C.C. marked  
C.C. on N. & S. J. B. N. on E. and raised a  
80.00 mound of stone around post - at foot of mt.  
Set a sand stone  $14 \times 12 \times 5$  ins. 10 ins.

in the ground for Standard Con.  
to Dees 33 & 34 marked S.C.  
on the N., with 3 notes on E.  
and 3 on N. edges, dug pits  
 $18 \times 18 \times 12$  ins. E. N. & W. of stone  
 $5\frac{1}{2}$  ft. dist. and raised a mound  
of earth 2 ft. high,  $4\frac{1}{2}$  ft. base  
alongside. Alt. 4450 ft.

Land. Mountainous & rolling  
Soil 3d rate - rocky -  
Dense hair and catclaw brush

Fourth Standard Parallel South  
chains

N. 89° 27' W. on S. side Sec. 33.

Ra 12° 47' E.

4000 Deposited a marked stone 12 ins.  
in the ground for Standard  $\frac{1}{4}$   
Sec. Cor., dug pits 18 X 18 X 12 ins.  
E.  $\frac{1}{2}$  W. of stone  $\frac{1}{2}$  dist., and  
raised a mound of earth  $1\frac{1}{2}$  ft.  
high  $3\frac{1}{2}$  ft. base <sup>over it</sup> ~~along it~~  
In E. pit drove a stake 2 ft.  
long, 2 ins. sq., 12 ins. in the  
ground marked S. C.  $\frac{1}{4}$  S, on  
N. face -

8000 Set a post 4 ft. long, 4 ins. sq.,  
with marked stone 12 ins. in  
the ground for Standard Cor.  
to Secs. 32  $\frac{1}{2}$  33 marked S. C.  
I. 20 W., R. 21 E. on N.  
S. 33 on E. and  
S. 32 on N. face with 4 notches  
on E. and 2 on N. faces, dug  
pits 18 X 18 X 12 ins. N. E.  $\frac{1}{4}$  W. of

through Range 21 East  
chains

post  $5\frac{1}{2}$  ft. dia., and raised  
 a mound of earth 2 ft. high  
 $4\frac{1}{2}$  ft. base <sup>around post</sup> ~~along side~~  
 Altitude 4500 ft.  
 Land Rolling  
 Soil 2d me  
 Some catclaw brush —

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7/18/89 - 2 PM. on S. bdy. Sec. 32.  
 T<sub>2</sub> 12° 42' E.

- 19.00 Wagon Road - tra N.W. 45 S.E.
- 40.00 Set a post 3 ft. long 3 ins. sq.  
 with marked stone 12 ins in the  
 ground for Standard 1/4 Rec. Cor.  
 marked S.C. 1/4 S on N. face.  
 dug pits 18x18x12 ins E. & S.W.  
 of post  $5\frac{1}{2}$  ft. dia., and raised  
 a mound of earth  $1\frac{1}{2}$  ft. high  
 $3\frac{1}{2}$  ft. base <sup>around post</sup> ~~along side~~
- 80.00 Set a post 4 ft. long 4 ins.  
 sq., with marked stone 12 ins

Fourth Standard Parallel South  
Chains

in the ground for Standard  
Cor to Sec. 31  $\frac{1}{4}$  S 32 marked S. C.  
S. 20 N. R. 21 E.  $\frac{1}{4}$  on N.

S. 32 on E. and

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

Altitude 4575 ft.

Land-Rolling

Soil 2570a

Some Mesquite & catclaw brush -

N. 87° 27' W. on S. by Sec. 31 -

Pa. 12° 42' E.

4000

Set a post 3 ft. long, 3 ins. sq.  
with marked stone 12 ins in  
the ground for Standard  $\frac{1}{4}$   
Sec. Cor. marked S. C.  $\frac{1}{4}$  S.

through Range 21 East  
 chains

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.

8000

Set a Sandstone 10x10x8 ins. 6 ins.  
 in the ground, for Standard Cor.  
 to Tps. 20S, Rgs. 20 & 21 E. marked  
 S.C. with 6 notches on N. E. & W.  
 edges, dug pits 2x18x12 ins. cross-  
 wise on each line N. E. & W. of  
 stone 6 ft. dist., and raised a  
 mound of earth 2 1/2 ft. high,  
 5 ft. base alongside.

Altitude 4700 ft.

Land - Rolling

Soil - 2d run

Dense mesquite & cactus  
 brush -

Fourth Standard Parallel South  
Chains

From the Standard Cor. to  
Tps. 20 S., Rgs. 20<sup>th</sup> & 21<sup>st</sup> E., recently  
established by <sup>me</sup> I run  
N. 89°-27' W. on S. side Sec. 36 -  
Va. 12'-42' E.

18.00 Road brs. N.W. <sup>3/4</sup> S.E.

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

69.00 Road - brs. N.E. <sup>2/3</sup> S.W.

80.00 Deposited a marked stone 12 ins.  
in the ground for Standard Cor.  
to Secs. 35<sup>th</sup> & 36, dug pits 18 x 18  
x 12 ins. N.E. <sup>3/4</sup> W. of Corner 5 $\frac{1}{2}$  ft.  
dist. and raised a mound of  
earth 2 ft. high, 4 $\frac{1}{2}$  ft. base  
over it. In E. pit drove a  
stake 2 ins. sq. 2 ft. long, 12 ins.  
in the ground, marked

through Range 20 East  
Chains

1208, R 20 E., S. C. on N.  
S. 36 on E. and  
S. 35 on W. face, with 1 notch  
on E. and 5 notches on W. face.  
Altitude 4700 ft.  
Land - rolling -  
Soil - sandy gravel - 2<sup>nd</sup> rate -  
dense growth of greasewood  
and catclaw brush -

N. 89° 27' <sup>W</sup> on S. bdy. Sec. 35 -  
N. 120° 42' E.

1302 Intersect E. boundary of San  
Ignacio de Bobacemoni Grant  
1 mile 38.15 chs. from the NE.  
Cor. and for a Closing Cor.  
set a mesquite post 3 ft. long,  
3 ins. sq. 12 ins. in the ground  
marked C. C. on E. and S. J. B.  
C. on W. face, dug pits 18x18  
x12 ins. N. S. & E. of stake

Fourth Standard Parallel South  
Chains

5 1/2 ft. dist, and raised a  
mound of earth 1 1/2 ft. high  
3 1/2 ft. base around post-

39.30 Road - bxs. N.W. 35 S.E.

40.00 Set a post 3 ft. long 3 ins. diam with marked  
stone, 12 ins, in the ground for <sup>Stam</sup> Sec. Cor.,  
marked 1/4 S.S. on N. face, dug pits 18 x 18 x 12  
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.

8.000 Set a Granite Stone 12x10x8 ins.  
8 ins. in the ground for Standard  
Cor. to Secs. 34 35 35 marked  
S. C. marked with 2 notches on E.  
and 4 notches on W. edges,  
dug pit 18 x 18 x 12 ins. N.E. &  
W. of stone 5 1/2 ft. dist, and  
raised a mound of earth  
2 ft. high, 4 1/2 ft. base along-  
side. Altitude 4700 ft. -  
Land - rolling & broken  
Soil - 3d rate



through Range 20 South  
chains

Dense growth catclaw and  
grease wood brush—

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N 89° 27' N. on S. bdy. Sec. 34—

Va. 12° 42' E.

12.00 Wagon Road - bds. N. E.  $\frac{3}{4}$  S. W.

25.55 Wagon Road - bds. W. W.  $\frac{3}{4}$  S. E.

27.24 Dry Wash 20 fms. wide - Course N.

40.00 Set a Granite stone, 14 x 7 x 6 ins. 10 ins.  
in the ground for <sup>stand</sup>  $\frac{1}{4}$  Sec, Cor, marked S.C. on N.  
face, dug pits 18 x 18 x 12 ins. E, and W.  
of stone 5  $\frac{1}{2}$  ft. dist. and raised a mound of earth  
7  $\frac{1}{2}$  ft. high. 3  $\frac{1}{2}$  ft. base. alongside.

58.73 Wagon Road - bds. N.  $\frac{3}{4}$  S.

80.00 Set a Granite stone 12 x 10 x 6 ins.  
8 ins. in the ground for Standard  
Cor. to Secs. 33  $\frac{3}{4}$  34 marked  
S.C. with 3 notches on E.  $\frac{3}{4}$  W.  
edges, dug pits 18 x 18 x 12 ins. E.  
N. & N. of stone 5  $\frac{1}{2}$  ft. dist.  
and raised a mound of

Fourth Standard Parallel South  
Chains

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

Altitude 4650 ft.

Land - broken

Soil - sandy - 3<sup>d</sup> rate -

Dense catclaw brush -

789-27 N. on S. bdy. Sec. 33

To  $12^{\circ} 42'$  E.

26.64 Wagon Road - hrs. N. & S.

40.00 Set a Granite stone, 12 x 8 x 6 ins., 8 ins.  
in the ground for <sup>Stand.</sup> Sec. Cor, marked S.C. on N.  
face, dug pits 18 x 18 x 12 ins. E. and W.  
of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  
 $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base, alongside.

80.00 Set a Granite stone 12 x 10 x 8 ins.  
8 ins. in the ground for Standard  
Cor. to Secs. 32 & 33, marked  
S.C. with 4 notches on E. and  
2 notches on W. edges, dug  
pits 18 x 18 x 12 ins. N. E. & W.  
of stone  $5\frac{1}{2}$  ft. dist., and

Through Range 20 South-  
Chains

raised a mound of  
earth 2 ft. high  $4\frac{1}{2}$  ft.  
base alongside.  
Altitude 4725 ft.  
Land-rolling & broken-  
Soil - sandy - 2d rate.  
Dense Catclaw Brush-

$N 89^{\circ} 27' N.$  on S. by Sec. 32  
 $N. 12^{\circ} 42' E.$

- 20.00 Descend bluff to valley  
40.00 Set a Granite Stone  $12 \times 10 \times 4$  ins.  
8 ins. in the ground for Standard  
 $\frac{1}{4}$  sec. Cor. marked S.C.  $\frac{1}{4}$  on  
N. face and raised a mound  
of stone alongside. pits  
impracticable.  
Enter Bobacomari valley -  
brs. N.E. & S.W. Leave brush -  
45.50 Wagon Road - brs. N.E. & S.W.  
80.00 Set a Sandstone  $12 \times 12 \times 4$  ins.

Fourth Standard Parallel South  
 Chanis

8 ins. in the ground for Standard  
 Cr. to Secs. 31 & 32. marked  
 S.C. with 5 notches on East  
 and 1 notch on W. edges,  
 dug pits 18x18x12 ins. E. W. and  
 N. of stone 5 1/2 ft. dist. and  
 raised a mound of earth  
 2 ft. high 4 1/2 ft. base along  
 side - Altitude 4625 ft.  
 Land - rolling & valley  
 Soil - 1<sup>st</sup> rate in valley  
 Good grass  
 No timber

7890 - 2 1/2 m. on S. side Sec 31  
 Va 12° - 42' E.

30.00 Babacomari River, 18 lks. wide  
 Course N. 50° E.

36.10 Sonora R.R. bns. N.E. & S.W.

37.00 Wagon Road - bns. N.E. & S.W.

## Through Range 20 Each

## Chains

- 40.00 Set a Granite <sup>slab</sup> stone 18 x 6 x 6 ins. 12 ins. in the ground for <sup>Standard</sup> Sec. Cor. marked 19C on N. face, dug pits 18 x 18 x 12 ins. E. and W. of stone 5 1/2 ft. dist. and raised a mound of earth 1 1/2 ft. high 3 1/2 ft. base alongside.
- 46.00 Leave Batacomari valley and enter rolling and broken upland covered with dense growth Mesquite greasewood and cotoclaw brush-
- 80.00 Set a Limestone 12 x 10 x 10 ins. 8 ins. in the ground for Standard Cor. to Tps. 20 S., Rgs. 19 & 20 E., marked S. C. with 6 notches on N. E. & W. edges, dug pits 24 x 18 x 12 ins. crosswise of each line N. E. & S. W. of stone 6 ft. dist. and raised a mound of earth 2 1/2 ft. high 5 ft. base along side.  
Altitude 4800 ft.  
Land-Level rolling-  
Soil - 1<sup>st</sup> & 3<sup>d</sup> rate-

## Fourth Standard Parallel South

Chambers

19A

BOOK 1510

I carefully examined today the adjustments of my Solar Transit particularly the Latitude and reversing apparatus and find them correct.

February 13<sup>th</sup> 1884

Established by one Iron  
N. 87°-27' N. on S. by. Sec 36  
Va 12°-42' E.

30.00 Ravine 400 lks. wide Course  
S.E.

40.00 Set a Granite stone 12x10x5 ins.  
8 ins in the ground for Standard  
1/4 Sec. Cor. marked S.E. 1/4 on  
N. face and raised a mound  
of stone alongside. pits  
impracticable.

70.64 Wagon Road - bns N.W. & S.E.

80.00 Set a Granite stone 11x10x5 ins  
8 ins in the ground for Standard  
Cor. to Secs. 35 & 36 marked

Through Range 19 East  
Chains

S.C. with 1 notch on E. and  
5 notches on W. edges, and  
raised a mound of stone  
alongside - pit impracticable  
Altitude 4900 ft.

Land - rolling

Soil - gravelly - 35% -

Dense undergrowth cottonwood  
and greasewood brush -

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N 87° 27' W. on S. 1/4 Sec. 35 -  
Va 12° 42' E.

4000 Set a granite stone 12x12x12 ins.  
8 ins. in the ground for Standard  
1/4 Sec. Cor. marked S.C. 1/4 on W.  
face, and raised a mound of  
stone alongside - pit imprac-  
ticable.

8000 Set a sandstone 10x10x8 ins. 6  
ins. in the ground for Standard  
Cor. to Secs. 34 & 35 marked

Fourth Standard Parallel South  
chains

S. C. with 2 notches on E.  
and 4 notches on W. edges,  
and raised a mound of  
stone alongside - pits imprac-  
ticable. Station 5 225 ft.  
Land - rolling -  
Soil 3<sup>d</sup> rate  
Fair grass  
Dense catclaw brush.

Wagon Road on S. side Sec. 34.

12' - 42' E.

34.68 Wagon Road - bns.  $71.30^{\circ}E$ .  $25^{\circ}S$ .  $130^{\circ}W$ .

40.00 Set a Sand stone  $10 \times 10 \times 6$  ins.  
6 ins. in the ground for Standard  
 $\frac{1}{4}$  Sec. Cor. marked S. C.  $\frac{1}{4}$   
on W. face and raised a mound  
of stone alongside - pits imprac-  
ticable.

76.50 Wagon Road - bns.  $71.00^{\circ}E$ .  $41.10^{\circ}W$ .



Through Range 19 East  
Chains

80.00 Set a Sand stone  $12 \times 10 \times 8$  ins.  
8 ins. in the ground for Standard  
Cor. to Secs. 33 & 34 marked  
S.C. with 3 notches on E. and  
W. edges, and raised a  
mound of stone alongside  
pits impracticable -  
Altitude 5275 ft.  
Land - rolling  
Soil 35 rate -  
Dense catclaw brush -

789° - 27' N. out. side Sec 33 -  
7a 12° - 42' E.

40.00 X Set a Sand <sup>Stand.</sup> stone  $12 \times 10 \times 8$  ins., 8 ins.  
in the ground for  $\frac{1}{4}$  Sec. Cor. marked 1 S.C. on W.  
face, dug pits  $18 \times 18 \times 12$  ins. E. and W.  
of stone  $5\frac{1}{2}$  ft. dist. and raised a mound of earth  
 $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base, alongside.

44.40 Gulch 300 lbs. wide Corner S.C.

# Fourth Standard Parallel South

chains

8.00 Set a Limestone 10x10x6 ins.  
 pins in the ground for Standard  
 Cor. to Secs. 32<sup>nd</sup> & 33 marked  
 S.C. with 4 notches on E,  
 and 2 notches on W. edges,  
 and raised a mound of  
 stone along side. pits  
 impracticable.

Altitude - 5300 ft.

Land rolling

Soil 3<sup>rd</sup> rate

Druse catclaw brush

N. 89° - 27 W. on S. side Sec. 32.

Va 12° - 42' E.

1.00 Wash 30 lbs wide. Corner S.E.

31.20 Wagon Road - bns. N.W. & S.E.

40.00 Set <sup>stand.</sup> sandstone 12 x 10 x 6 ins., 8 ins.  
 in the ground for a Sec. Cor, marked S.C. on N.  
 E. and W. edges. 18 x 18 x 12 ins. E. and W.  
 of stone 5 ft. dist. and raised a mound of earth  
 18 ft. high 8 ft. base along side.

through Range 19 East  
chains

61.50  
80.00

Dry Wash 60 lbs. wide, Corner S.E.  
Set a Limestone 20x12x12 ins.  
15 ins. in the ground for Standard  
Cor. to Sec. 31 & 32 marked  
S.C. with 5 notches on E. and  
1 notch on N. edges, and  
raised a mound of stone  
alongside. pits impracticable  
Altitude 5500 ft.  
Land - rolling and broken -  
Soil - 3<sup>d</sup> rate  
Grass 2<sup>d</sup> rate  
Dense Catclaw brush -

N 89° 27' W. on S. side Sec. 31.  
Va. 12° - 42' E.

40.00

Set a Granite stone 16 x 10 x 6 ins. 10 ins.  
in the ground for <sup>Stand.</sup> Sec. Cor. marked S.C. on N.  
face, dug pits 18 x 18 x 12 ins. E. and W.  
of stone 5 1/2 ft. dist. and raised a mound of earth  
1 1/2 ft. high. 3 1/2 ft. base, alongside.

Fourth Standard Parallel South  
chains

79.10 Wash 60 lks. wide, Course South-  
 80.00 Set a Limestone 20 x 16 x 6 ins. 15 lines  
 in the ground for Standard Cor.  
 to Sp. 20 S., Rgs. 18<sup>th</sup> & 19 E. marked  
 S.C. with 6 notches on N.E. and  
 W. edges. and raised a mound  
 of stone alongside. Pits  
 impracticable -  
 Attitude 5450 ft.  
 Land - broken.  
 Soil - 3<sup>d</sup> rate,  
 Grass - 2<sup>d</sup> rate,  
 Dense Cactaceae brush -

X From the <sup>stand</sup> cor to Inps. 20 S.  
 Rgs. 18<sup>th</sup> & 19 E. just established  
 by one S run  
 N. 89° 27' N. on S. bdy. Sec 36  
 Ta. 12° - 42' E.

19.00 Dry Wash. 50 lks. wide  
 Course South -

through Range 18. Cross  
chain

- 31.70 Dry Wash. 30 Mts. wide  
Course South-
- 32.69 Intersect North boundary of  
San Ignacio del Pata  
small front 9 miles  
41.80 ch<sup>o</sup> E. of the N. W.  
Cor. - Set for closing corner  
a Limestone 16X10X6 ins. 10 ins.  
in the ground marked C.C.  
on N. and S. S. B. on E.  
faces, and raised a mound  
of stone alongside
- 40.00 Set a Limestone 16X10X6 ins. 10 ins.  
in the ground for Standard  $\frac{1}{4}$   
Sec. Cor. marked  $\frac{1}{4}$  P.C. on  
N. face and raised a mound  
of stone alongside, pits  
unpracticable.
- 51.10 Wash 15 Mts. wide, Course  
South. Foot of Mt. and  
ascend-

Fourth Standard Parallel South  
chains

- 72.50 Top of Mt. Leo, N.  $\frac{1}{2}$  S. S.
- 73.00 Descend.
- 8000 Set a Limestone 18x12x10 ins.  
12 ins. in the ground for Standard  
Corner to Secs. 35<sup>th</sup> & 36, marked  
S. C. with 1 notch on E. and  
5 notches on N. edges and  
raised a mound of stone  
alongside - pits imprac-  
ticable - Altitude 5625 ft.  
Land broken & mountainous -  
Soil - 3d rate - rocky -  
scattering brush -

N 89° 29' W. on S. bdy. Sec. 35  
Ta 12° 42' E.

Descend

- 1400 Top of Mt. Dry Wash 10 lbs. wide  
course S.
- 3000 Dry Wash 10 lbs wide.

through Range 18 East  
chains

course - South -

40.00 Set a Limestone 18 X 18 X 10 ins.  
12 ins. in the ground for the  
Standard  $\frac{1}{4}$  Pie. Cr. marked  
 $\frac{1}{4}$  S. C. on N. face and  
raised a mound of stone  
alongside - pits impracticable

51.50 Dry wash 30 fms. wide, Course  
South -

74.50 Dry wash 50 fms. wide -  
Course - South -

80.00 Set a Limestone 16 X 8 X 8 ins  
10 ins in the ground for the  
Standard Cr. to Secs. 34  
and 35, marked S. C. with  
2 notches on E. and 4  
notches on W. edges, and  
raised a mound of stone  
alongside. Pits imprac-  
ticable. Altitude

8450 ft.

Fourth Standard Parallel South  
chains

Sand-rolling  
Soil 25 or 30  
Good grass  
Rotting catclaw brush -

1892-27 W. md. Hy. Sec. 34  
7a 122-42 E.

40.00 Set a granite stone 16 x 16  
x 12 ins. 10 ins. in the ground  
for Standard 1/4 Dec. Cor.  
marked S.C. 1/4 on N. face  
and raised a mound of  
stone alongside. pit  
impracticable -

76.60 Spring creek - 4 dks. wide  
Course S W.

80.00 Set a Granite stone 20 x 20 x 10 ins.  
15 ins. in the ground for Standard  
Cor. to Secs 33 1/2 S 34 marked  
S.C. with 3 notches on E.  
and W. edges, and raised



through Range 18 East  
chains

a mound of stone alongside.  
Ditto impracticable -  
Altitude 5400 ft. -  
Land - rolling -  
Soil 25 rods -  
Good grass -  
Scattering catclaw brush

W 92° 27' N. on S. by Sec. 33 -

7/2 12° 42' E.

8.80 Creek 600 yds. wide, Course S. 40° E.  
12.49 Sonora R.R. hrs. N.W. & S.E.  
14.82 Wagon Road - hrs. N.W. & S.E.  
40.00 Set a lime stone 16 x 17 x 6 ins. 10 ins.  
in the ground for <sup>1</sup>/<sub>4</sub> See, Cor, marked 182 on N.  
face, dug pits 18 x 18 x 12 ins. E. and W.  
of stone 24 ft. dist. and raised a mound of earth  
1 1/2 ft. high, 3 1/2 ft. base alongside.

80.00 Set a Limestone 16 x 8 x 6 ins.  
10 ins in the ground for Standard  
Cor. to Secs. 32 and 33

Fourth Standard Parallel South  
chains

marked S.C. with 2 notches  
on N. and 4 notches on E.  
edges and raised a  
mound of stone alongside -  
pits impracticable -  
Altitude 5500 ft.  
Land - rolling -  
Soil - 2<sup>d</sup> rate -  
Good grass -  
No timber

7892-2977 on S. Sdy. See 32  
Va 12-42' E.

- 40.00 Set a Limestone 18 x 12 x 8 ins.  
12 ins in the ground for Standard  
N. Cor. marked S.C. on  
N. face and raised a mound  
of stone alongside. Pits  
impracticable -
- 80.00 Set a sandstone 17 x 12 x 10 ins  
8 ins. in the ground for

through Range 18 East  
chains

Standard Cor. to Secs. 31  
and 32 marked S. C.  
with 5 notches on E. and  
1 notch on W. edges, dug  
pit 18x18x12 ins N. E. &  
W. of stone 5 1/2 ft. dist., and  
raised a mound of earth  
2 ft. high, 4 1/2 ft. base  
along side.

Altitude 5525 ft.

Land rolling.

Soil - 25 mts.

Good grass.

Good timber.

N. 81° 2' W. on S. 1/4 Sec. 31  
72-42' E.

14.00 Wagon Road - bns. N. 75° W.  
and S. 75° E.

4.00 Set a Limestone, 9 x 8 x 7 ins., 6 ins.  
in the ground. See Cor. marked S.C. on N.

Fourth Standard Parallel South  
chains

face, dug pits 18 x 18 x 12 ins. E. and W.  
of stone 54 ft. dist. and raised a mound of earth  
14 ft. high, 34 ft. base, alongside.

81.24 The Standard cor. to  
Tps. 20 S., Rgs. 11<sup>45</sup> & 18 E.  
Altitude 5575 ft.  
Land - rolling -  
Soil - 2d rate -

I carefully examined today 32B  
my solar transit especially the  
latitude and reversing  
apparatus and find them correct  
February 14<sup>th</sup> 1884 -

a rolling and broken country  
covered for the most part  
with a dense growth of  
catsclaw brush. The soil  
is of a sandy nature  
and produces a fair  
quality of grass.  
Much of the land N. and

through Range 18 East-

chains

South of the line is well  
adapted to grazing purposes

For final paths "see Book  
No 8"

## U. S. Surveyor General's Office,

Tucson, Arizona, July 21, 1884

The foregoing Field Notes of the Survey of the

Four Standard Parallels  
South through Ranges 18, 19,  
20 and 21 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-  
ted by J. P. McLaughlinDeputy Surveyor, under his contract of the 18<sup>th</sup>

day of June, 1884, having been

critically examined and the necessary corrections and explana-  
tions made, the said Field Notes and the surveys they describe

are hereby approved

Royal A. Johnson  
Surveyor General.