

*collected*

*Book No 7*

# See Index and Field Notes

OF THE SURVEY OF

*The*

*Yukon*

*Retracing of the Third Guide  
Meridian ~~South~~ <sup>East</sup> through  
Tps. 16, 17 and 18 South-*

*Compared*

1451

BOOK 1451

*No. 1451*

*Gila and Salt River Base and Meridian*

**ARIZONA.**

By *J. B. McLaughlin* D. S.

Under contract dated *June 18<sup>th</sup>* 18*83*

Survey commenced *July 22<sup>d</sup>* 18*84*

Survey completed *July 23<sup>d</sup>* 18*84*

# Index

Retracement of 3<sup>d</sup>  
Guide Meridian South  
• through

Trp. 16 S. Pps. 1 to 9 incl  
" 17 S. " 10 to 16 "  
" 18 S. " 17 to 24 "

Third Guide Meridian C. & G. No. 25826 E.

| 3.16 S.   | 3.17 S.    | 3.18 S.    |
|-----------|------------|------------|
| 1   6 -   | 1   10 6   | 1   17 6   |
| 12   2 7  | 12   11 7  | 12   18 7  |
| 13   4 18 | 13   12 18 | 13   19 18 |
| 24   5 19 | 24   15 19 | 24   21 19 |
| 25   7 30 | 25   15 30 | 25   22 30 |
| 36   8 31 | 36   16 31 | 36   23 31 |

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

Retracing 3<sup>d</sup> Guide Meridian  
Maine

From the Closing Cor. to No.  
16 S. Rgs. 25<sup>th</sup> & 26 E. on the  
3<sup>d</sup> Standard Parallel South  
which is charred stake in a  
mound of earth with pits E. N. &  
S. of it 6 ft. dist & stake in E.  
pit all in good preservation  
I run -

S. bet Secs. 1<sup>st</sup> & 6

Va 120-30' E.

40.02 The 4<sup>th</sup> Sec. Cor. which is a  
mound of earth with pits  
N. & S. 8 1/2 ft. dist & stake properly  
marked in N. pit. Both being  
partially destroyed I re-dug  
pits & rebuilt mound of earth

80.03 To a point 5 lbs. E. of Cor. to  
Secs 1.6. 7 & 12 which is pits  
in each Sec. stake in S.E.  
pit properly marked and  
mound of earth - The mound

East

No. 1451

COOK 1451

2

South, through Imp. 16 South

chains

being nearly destroyed and  
the pits partially filled. I  
redig the same and build  
mound to their proper  
dimensions -

Land - lux

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

No timber -

S. bet Secs. 9<sup>th</sup> & 12.

Va 12° - 30' E.

40.01

At a point 4 lks. E. of  $\frac{1}{4}$   
Sec. cor. which is a mound  
of earth with pits N.W.S.  
 $5\frac{1}{2}$  ft. dist. partially destroy-  
ed. I redig pits & raised  
a mound of earth to their  
proper dimensions. In N pit  
drew a stake 3 ft. long, 3 ins  
sq. marked  $\frac{1}{4}$  S. on W. face.  
The cor. to Secs. 7, 12, 13 & 18,

8000

Retracing 3<sup>d</sup> Guide Meridian  
chains

which is a mound of  
earth with pits in each  
section, partially destroyed.  
I re-dug pits and raised  
a mound of earth to their  
proper dimensions - In S.E.  
pit drove a stake 2 ft. long,  
2 ins. sq. 12 ins in the ground  
✓ marked S. 16 S.S. 7 on N.E.  
R. 26 E. S. 18 on S.E. R. 25 E.  
S. 13 on N.W. & 12 on N.N.  
edges, with 2 notches on  
N. and 4 notches on S. edges.  
Land level  
Soil 2<sup>d</sup> rate  
Good grass  
✓ No timber

East

South, through Imp. 16 South

S. bet Secs. 13<sup>and</sup> 18

To 12<sup>o</sup> 30' E.

39.96

At a point 5 lks. N. of the  
 1/4 Sec. Cor. which is a  
 mound of earth with charred  
 stake in it & pits N<sup>and</sup>  
 S. of it 5 1/2 ft. dist. partly  
 destroyed. I redig & rebuilt  
 pits & mound to their proper  
 dimensions. In N pit  
 drove a <sup>stake</sup> 2 ft. long 2 ins. dia.  
 12 ins in the ground marked  
 N S, on W. face -

80.00

The cor. to Secs. 13, 18, 19<sup>and</sup>  
 24 which is a mound of  
 earth with charred stake  
 in it and pits in each  
 section 5 1/2 ft. dist. are nearly  
 obliterated. I redig  
 pits and rebuild mound  
 to their proper dimensions -

✓

Retracing 3<sup>d</sup> Guide Meridian  
Nails

In S. E. pit drove a stake  
2 in sq. 2 ft. long 12 in. in the  
ground marked 516 S. S. 18 on N. E.  
R. 26 E. S. 19 on S. E. R. 25 E. S. 24 on  
S. W. & S. 13 on N. W. faces with  
3 notches on N. & S. edges  
Land level.

Soil 25<sup>th</sup> rate.

Fair grass

No timber

S. 1st Sec. 19<sup>th</sup> & 24<sup>th</sup>  
T. 12<sup>th</sup> 30' E

40.07 To a point 7 lbs. N. of the  
N. Sec. Cor. which is a cherted  
stake in mound of earth with  
pile N. & S. 5 1/2 ft. <sup>high</sup> nearly oblit-  
erated. I redug pile & raised  
mound to their proper  
dimensions. On N. pit  
drove a stake 2 in. sq. 2 ft.



East

North through Prop. 16 South  
Chain

1993

long 12 in in the ground  
marked H.S. on N. face—  
The cor. to Secs 19, 24, 25  
and 30 which is charred  
stake in mound of earth and  
pits in each Sec. 5 1/2 ft. dist.  
partially destroyed. I redug  
pits & rebuilt mound to  
their proper dimensions—

In S.E. pit above a stone  
2 in. sq. 2 ft. long 12 in in the  
ground marked J. 16 S. S. 19 on  
N.E., R 26 E., S 30 on S.E.  
R. 25 E., S 25 on N.W. and S. 24  
on N.W. faces with 4 notches  
on N. and 2 notches on S.  
edges.

Land. level.

Soil 2d rate.

No grass.

No timber

✓

Retracing 3<sup>d</sup> Guide Meridian  
Chains

S. bet. Secs 25<sup>th</sup> & 30

Ta 12<sup>th</sup> 30<sup>th</sup> E.

25.60

Wagon Road - Camp Bowie  
to Sulphur Spring Raucher  
Trs. N.E. & S.W.

40.08

The ~~old~~ cor. which is a  
charred stake in mound  
of earth, pits N.W.S. 5<sup>1</sup>/<sub>2</sub> ft.  
dist. with stake in N. pit  
properly marked. The pits  
and mound being nearly  
destroyed I redig pits  
& rebuild mound to their  
proper dimensions -

79.97

In a point 4 lks. W. of the  
Cor. to Secs. 25. 30. 31 & 36  
which is charred stake  
in mound of earth with  
pits in each section 5<sup>1</sup>/<sub>2</sub> ft.  
dist. and stake dimly  
marked in S.E. pit -

South through Imp. 16 South-  
chains-

Pit & mound being partly  
destroyed I rebuild  
mound & redig pits to  
their proper size and  
re-mark stake -  
Land level  
Soil 25 rate  
Fair grass  
No timber.

S. bet. Secs. 31<sup>45</sup> & 36  
Va 12°-30' E.

39.95

The  $\frac{1}{4}$  Sec. Cor. which is a  
charred stake with mound  
of earth & pits N.W. of it  
 $5\frac{1}{2}$  ft. dist. nearly destroyed -  
I reestablish Cor. by renewing  
pits & mound of earth to their  
proper dimensions - In  $\frac{1}{4}$  pit  
drive a stake 2 ins. sq. 2 ft.  
long 12 ins. in the ground

## Retracing F. Guide Meridian

Chris

80.00 marked 1/4 S. on N. face  
 The cor. to Apr 16<sup>th</sup> 17 S.  
 Rgs 25<sup>th</sup> & 26 E. which  
 is a charred stick in  
 mound of earth with pits  
 N.S. E. 4 N. of it nearly  
 filled up. I redig pits  
 and raise mound to  
 their proper vegl.

In E. pit drove a stake  
 2 ins. sq. 2 ft. long 12 ins. in  
 the ground, marked 116 S.  
 N. 31 on N.E. R 26 E. S. 60 N.E.  
 T. 17 S. S 1 on S.W. R. 25 E. S 6  
 on N.W. <sup>faces</sup> with 6 notches  
 on each edge.

Land level  
 Soil: 2/3 ratio  
 Good grass  
 No timber

East  
 North through Twp 17 South.  
 Charis

From the cor. to Tps. 16 & 17 S,  
 R's 25 & 26 E. just re-estab-  
 lished by me & run  
 S. bet Secs 1 & 2 Co  
 Va 12° 30' E.

39.93 At a point 5 lks. E. of  $\frac{1}{4}$  sec.  
 cor. which is charred stake  
 in mound of earth with pits  
 N. & S. of it  $5\frac{1}{2}$  ft. dist, both nearly  
 obliterated. I rebuild mound  
 and redig pits to their  
 proper size. In N pit  
 drove a stake 2 ins. sq. & ft.  
 long 12 ins in the ground, marked  
 N.S. on N. face

80.04 At a point 4 lks. E. of the  
 Cor. to Secs. 1 & 2 T. 17 S  
 which is charred stake in  
 mound of earth and pits  
 in each Sec.  $5\frac{1}{2}$  ft. from mound  
 with stake properly marked

Retracing 3<sup>d</sup> Guide Meridian

Stations

lying in S.E. pit -  
 Pits and mound being  
 nearly destroyed I re-dug  
 pits & rebuilt mound to  
 their proper dimensions -  
 and drove the stake in  
 S.E. pit -

Land - level.

Soil 2<sup>d</sup> rate.

Poor grass -

No timber -

S. bet. Secs. 7 and 12

$\frac{1}{2}$  12° - 30' E.

40.05

The 1<sup>st</sup> cor. which is a  
 Malpais stone 25 x 30 ins.  
 with dilapidated mound  
 of stone alongside -  
 I remark the stone and  
 rebuild the mound of  
 stone -

East

BOOK 1451

South, through Twp. 17 South

Chains

51.50 Top of Malpais hill.  
 Pa. 04 The point 6 Sks. N. of  
 the cor. to Secs 7, 12, 13<sup>4</sup> & 18.  
 which is a Malpais stone  
 10x5 ins with mound of stone  
 nearly destroyed alongside.  
 I marked stone and  
 rebuilt mound to its proper  
 dimensions.  
 Land Mountainous  
 Soil 4<sup>th</sup> rate  
 Poor grass  
 scattering oak -

S. bet. Secs. 13<sup>4</sup> & 18 -  
 Va 12°-30' E.

40.06 The 1/4 sec. cor. which is a  
 Malpais stone 10x5 ins.  
 well preserved with partly  
 destroyed mound of stone  
 alongside - I rebuild the

Retracing 3<sup>d</sup> Guide Meridian  
Chain

- 44.20 stone mound to its proper size  
Top of hill and descend  
to the south
- 80.00 The cor to Secs. 13, 18, 19<sup>th</sup> & 24,  
which is charred stake in  
mound of earth with pits in  
each section and requisite  
stake properly marked in S.E.  
pit. Mound and pits  
being partially destroyed  
I rebuild and redig the  
same to their proper size.  
Sand - broken & mountainous.  
Dirt 4<sup>th</sup> rate -  
Poor grass -  
No timber

S. bet. Secs. 19<sup>th</sup> & 24.  
Va 12° 30' E.

- 40.06 The N Sec. Cor. which is a  
✓ charred stake in mound



East

South through Imp. 17 South

Chains

of earth with pits N. & S.  
 $5\frac{1}{2}$  ft. dist. with properly  
 marked stake in N. pit -  
 Pits being partially filled up  
 and mound worn away  
 I redig pits and rebuilt  
 mound to their proper size -

80.00 At a point 5 lks N. of the Cor.  
 to Secs. 19, 24, 25 & 30 which  
 is charred stake in mound  
 of earth, pits in each sec.  $5\frac{1}{2}$  ft.  
 from it and stake of proper  
 size well marked in S.E.  
 pit - Pits being nearly gone  
 I redig them to their proper  
 size -

Land Level  
 Soil 25 rate  
 Fair grass  
 No timber.

Retracing 3<sup>d</sup> Guide Meridian  
chains

S. bet. Secs 25<sup>th</sup> & 30

Va 12<sup>th</sup> - 30<sup>th</sup> E.

40.00 The  $\frac{1}{2}$  Sec. Cor. which is a  
charred stake in mound of  
earth with pits N. & S. 5 $\frac{1}{2}$  ft.  
Dist. and properly marked  
stake of required size in  
N pit - all in good  
condition

80.04 The Cor. to Secs. 25. 30 31<sup>st</sup> & 36  
which is a charred stake in a  
mound of earth, pits in each  
Sec. 5 $\frac{1}{2}$  ft. from it and well  
marked stake in S.E. pit -  
mound and pits being  
nearly destroyed & rectified  
them in their proper form -  
Land - Rolling -

Soil - 25 & 30<sup>th</sup> row -

Fair grass -

No timber -

Meridian

East  
~~South~~ through Imp. 17 South  
 chains

Sec. 25 1/2 30

74 120-30' E.

which is a  
 stake in mound of  
 pits N. & S. 5 1/2 ft.  
 properly marked  
 required exigent  
 in good

Sec. 25 30 31 1/4 36

marked stake in a  
 north, pits in each  
 from it and vice  
 stake in S. E. pit -  
 and pits being  
 destroyed I reestablish  
 their proper form -

Rolling -  
 5 + 3 1/2 rows -

220 -  
 her -

S. bet. Secs. 31 and 36

74 120-30' E.

40.00 The 1/2 Sec. cor. which is charred  
 stake in mound of north with pits  
 N. & S. of it 5 1/2 ft. dist and  
 dimly marked stake in N pit -  
 I redig pits, rebuilt mound  
 of earth & remake stake in  
 the required manner -

80.13

The cor to Imp. 17 1/2 18 3. Rgs. 25  
 and 26 E. which is a charred  
 stake in mound of north with pits  
 N. S. E. & W. of it 6 ft away and  
 stake in E. pit all in good  
 condition -

Land rolling -

Soil 2 1/2 rows -

Fair grass -

No timber -

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

February 22<sup>nd</sup> 1884

Retracing 3<sup>d</sup> Guide Meridian

## Chains

From the corner to Nos 17 + 18 S.  
R's. 25 + 26 E. just described by  
me, I run

S. bet. Secs. 1<sup>st</sup> & 6

Va. 17°-30' E.

39.98

To a point 4 lks. E. of the 1/4  
Sec. Cor. which is a charred  
stake in mound of earth  
with pits N. & S. of it, 5 1/2 ft.  
dist. partly destroyed - Redug  
pit and rebuilt mound of  
earth to their proper size.  
In N pit drove a stake  
2 ins. sq. 2 ft. long 13 ins. in the  
ground marked 1/4 Sec. on N.  
face -

80.01

The cor. to Secs 16. 7<sup>th</sup> / 12  
which is charred stake  
in mound of earth with  
pits in each Sec. 5 1/2 ft. from  
it and stake in S.E. pit.

East

North through Twp. 18 South.

Chains

properly marked -  
 Pits and mound being in  
 poor condition I had dig  
 & rebuild the same to their  
 proper size  
 Land - rolling & broken -  
 Soil 3d rate -  
 No grass -  
 No timber -

S. bet. Secs. 7<sup>th</sup> & 12<sup>th</sup>  
 Twp. 12-30 E.

40.06

To a point 6 lks. E. of the  
 Sec. Cor. which is a charred  
 stake in mound of earth with  
 pits in each Sec. 5 1/2 ft. from  
 it - partly destroyed and  
 stake in N. pit - Redug  
 pits & raised mound to their  
 proper dimensions and  
 remarked stake -

Retracing 3<sup>d</sup> Guide Meridian  
Chains

79.94 The cor. to Secs. 7, 12, 13<sup>4</sup> & 18,  
which is a charred stake  
in mound of earth with  
pits in each sec 5 $\frac{1}{2}$  ft. dist.  
and stake in S.E. part in  
good condition -

The pits and mound being  
partially destroyed I  
reestablish them in the  
required manner -

Land rolling & level

Soil 2<sup>d</sup> & 3<sup>d</sup> rotte -

Fair grass -

No timber -

S. bet. Secs. 13<sup>4</sup> & 18

Ta 12<sup>o</sup> 30'

4000 The  $\frac{1}{4}$  Sec. Cor. which is  
a malpais stone 10 x 5 ins.  
with pits N.W. 5 $\frac{1}{2}$  ft.  
dist and mound of earth

East  
 South through Trp 18 South  
 chains

alongside. Pits & mound  
 being partially destroyed  
 I redig and rebuild the  
 same to their proper dimen-  
 sions.

P.O. 02 Is a point 6 lks N. of The  
 Cor. to Secs. 13, 18, 19 and 24  
 which is a charred stake  
 with mound of earth, pits  
 in each sec. ~~the~~ ft. dist and  
 stake in S.E. pit. all in poor  
 condition. I redig pits and  
 rebuild mound to their  
 proper size and remark  
 stake and drive in same  
 pit as before.

Land-rolling  
 Soil 35 rate.  
 Grass - fair -  
 No timber -

Retracing S. & Guide Meridian  
Chains

S. bet. Secs 19<sup>and</sup> 24  
Ta 122 30' E.

- 40.04 The  $\frac{1}{4}$  Sec. Cor. which is  
a charred stake in mound  
of earth with pits N.W.C.  
of it  $5\frac{1}{2}$  ft. dist and properly  
marked stake in N. pit  
All in good preservation-
- 53.75 Road-bns. N.E. & S.W.
- 80.02 In a point 8. lks. E. of the Cor  
to Secs. 19. 24. 25 & 30 which  
is a charred stake in mound  
of earth with pits in each Sec.  
 $5\frac{1}{2}$  ft. dist and stake in S.W.  
pit properly marked-  
Pits & mound being in a  
dilapidated condition I  
reestablish the same to  
their proper dimensions-  
Land - level.  
Soil - 35 rods



East

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22

South through Imp 18 South.

chains

BOOK 1451

Fair grass -  
No timber -

S. bet. secs. 25<sup>th</sup> & 30

Va 121-30 E.

39.94 The N. sec. cor. which is  
charred stake in mound of earth  
with pits N.W. of it 5 1/2 ft. dist.  
and stake properly marked  
near N. pit -

I redig pits & rebuild  
mound to their requisite  
dimensions and drive  
stake into pit -

80.00 The cor. to Secs. 25, 30, 31<sup>th</sup> &  
36 which is a charred stake  
in mound of earth with  
pits <sup>each</sup> W. side, 5 1/2 ft. dist. from  
it - nearly obliterated -

I redig pits, and rebuild  
mound to their proper

Retracing S. & Guide Meridian  
Chains

size. In N.E. pit drove  
a stake 2 ins. dia. 2 ft. long  
12 ins in the ground marked  
T. 18 S. S 30 on N.E. R 26 E.  
S. 31 on S.E. R 25 E. S 36 on  
Q. M. & S. 25 on W. M. faces  
with 5 notches on N. and  
1 notch on S. edges -  
Sand level -  
Soil 2<sup>d</sup> rate  
Fair grass  
No timber

S. bet. Secs. 31<sup>2</sup> & 36  
N. 12° 30' E.

40.02 The  $\frac{1}{4}$  sec. cor. which  
is a charred stake in  
mound of earth with  
pits N.W. of it 5 ft.  
dist - see in poor condition  
Redug pits & rebuilt

East

South through Sep. 18 South-  
chains

mound to their proper  
size - In N. pit drove a  
stake 2 ins. sq 2 ft. long  
12 ins in the ground marked  
1/2 on N. face -

P.O.O.O

To a point 6 lbs. E. of the  
Cor. to Sp. 154 19 S. R's 25  
and 26 E. which is charred  
stake in mound of earth  
with pits N. & E. of it  
it 6 ft. dist and stake  
in good preservation in  
E. pit - The mound and  
pits being somewhat  
dilapidated I rebuild'd  
✓ relaying the same to their  
proper proportions -

Found level reaching  
Soil 20 ins  
Good grass  
✓ No timber

Retracing 3<sup>d</sup> Guide Meridian S.

Accurately examined the adjustments of my Solar Transit today particularly the latitude and reversing apparatus and find them correct.

February 23<sup>d</sup> 1884-

For final notes see "Book No. 8."

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

Tucson, Arizona, July 21, 1884

The foregoing Field Notes of the Survey of the

Retracing of the Third Guide  
Meridian East through  
Townships 16, 17 and  
18 South

Of the Gila and Salt River Base and Meridian, Arizona, execu-  
ted by J. B. McLaughlin

Deputy 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.