

Attached copy No. 1460

No. 4.

~~See Index~~

Field Notes

BOOK 1460

O. THE SURVEY OF

5"
~~the~~ Guide Meridian E.
between Rs 29 + 30 E.
through Sps 1, 2 + 3 S. and
Sps. 1, 2 and part of 3 N.
of the

BOOK 1460

Compared

1460

Gila and Salt River Base and Meridian
CANCELLED, see memorandum dated July 27, 1998,
file 9600 (952).
ARIZONA.

By J. B. McLaughlin D.S.

Under contract dated June 18 1883.

Survey commenced May 6th 1884

Survey completed May 17th 1884

No. 1460

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ARIZONA STATE OFFICE

9600 (952)

July 27, 1998

Memorandum

To: Chief, Office Section
From: Chief Cadastral Surveyor
Subject: Cancellation of Survey

During the process of creating Amended Protraction Diagrams, it was discovered that the survey of the Fifth Guide Meridian East between Ranges 29 and 30 East, through Townships 1, 2, and 3 South and Townships 1, 2, and part of 3 North, Gila and Salt River Meridian, Arizona, no longer has utility and should be cancelled. This survey was conducted in 1884 by J. B. McLaughlin, Deputy Surveyor, under contract dated June 18, 1873.

The following notation will be placed upon the title page of the original field notes:

"CANCELLED, see memorandum dated July 27, 1998, file 9600 (952)."

A copy of this memorandum will be sent to Eastern States so the duplicate records can be similarly noted. A copy of the notated original title page and a copy of this memorandum will be sent to Micrographics for filming and inclusion in the Microfiche record.

Kenny D. Ravnikar
Kenny D. Ravnikar

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5

#	Guide	Mer. Stan.	Pos. 3 d.	Page
			1 to 12 inc.	
"	"	"	" 2 d. 18 to 24 "	
"	"	"	" 1 d. 25 to 38 "	
"	"	"	" 1 N. 39 to 51 "	
"	"	"	" 2 N. 52 to 62 "	
"	"	"	" 30x 63 to 65 "	

BOOK 1460

Bel. Ra. 29 and 30 E.

S. 3 N.	S. 2 N.	S. 1 N.	S. 1 S.	S. 2 S.	S. 3 S.
1606	1496	1366	1226	196	
12597	12477	12357	12207	1287	
135718	134618	133318	131818	13618	
245119	244419	243119	241719	24519	
253330	254330	252730	257530	25330	
366331	365231	364131	362531	361331	36131
		39			
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In description of
instrument and
preliminary notes
(see Book No 1

Survey commenced
May 6th 1854

Survey completed
May 17th 1854

~~Diff~~ Guide Meridian E.
Chain

From the cor. to
Twp. 384 S. R. 29030 E.
which is post firmly
set in a mound
of stone properly
marked in a run
North lat. Sec. 31036
Va. $12^{\circ}45' E.$

Across along N. slope
of mt. range

15.00
22.00
40.00

Top of spur projects N.E.
Quartz 10 lbs. Cor. S.E. across
Set a granite stone
 $17 \times 11 \times 7$ approx. 12 ins. in
the ground for
44. Cor. marked
"4" on N. face
and raised a
mound of stone
alongside
Pit impracticable

Through Apr. 3. S.

Chains

- 43.00 Top of spur projects
S.E. / dished.
- 52.00 Dry wash 15-lks.
wide lev. S.E. ascend
- 68.00 Top of spur projects
S.E. / dished
- 75.00 Wash 20 lks wide
lev. S.E. descend.
- 79.95 Trail to E. & N. leads
to mt. top
- 80.00 Set a granite ^{stone} 6x10x6 ins.
11 ins. in the ground
for Cor. to Dec. 20, 30.
34 and 36 marked with
1 notch on S. and 5
notches on N. edges.
and raised a
mound of stone
alongside.
Pit impracticable
on N. side of trail

5. ^{5.00}
 Forest Guide Mountain E.

Chavis

Surface mountainous
 Soil 4th rate
 Some oak, manzanita
 and Pinon brush
 Good grass
 Altitude 5700 ft

North lat. Sec. 25830
 Va. 12°45' E.

Ascending

Top of *Opus propeta*
 S.E. descend

Set a granite slab,
 4 ft x 12 x 7 ins. 36 ins.
 in the ground
 for the Sec. cor.
 marked 44 on N.
 face, and raised
 a mound of
 stones alongside
 Pib imperatible

300

4000

through Types &

Chains

- 42.00 Top of high rocky mt.
spur projects East.
to San Francisco river
descend into cañon
- 74.00 Bottom of cañon to
S.E. creek 5 lbs. wide
ascend
- 80.00 Set a granite stone
18 x 10 x 10 ins. 12 ins.
in the ground for
lev. to Sec 19, 24, 25
and 30 marked with
2 notches on S. and
4 notches on N. edge
and raised a mound
of stone alongside.
- Big impracticable
Surface mountainous
Soil 4th rate
Scattering Pinon and
oak & brush

Fourth guide: Swedish E
ChairNorth lat. Dec. 1924
No. 12445 E

Ascend

1550

Top of rocky spur
Pass E. or W. descend

4000

Hit a sand stone
14 x 8 x 5 ins. 9 ins. in
the ground for
1/4 the lev. marked
1/4 on N. face. and
raised a mound

8000

of stone along ridge
Path impracticable
Hit a sand stone
18 x 12 x 10 ins. 12 ins. in
the ground for
~~about~~ lev. to
Dec. 13, 18, 19 and 27
marked with 8 notches
on N. and S. edges.
and raised a

through Apr. 3 d.
Chains

mound of stones
alongside. Pit's unfractured
Surface monotonous
Side 4th rate
Dense oak brush.
Scattering pine and cedar
Altitude 6150 ft.

North pt. Sec. 73418
Va. 12045 E.

5.00 U Mining shaft. for
E. 4 Chs. Dist.

21.65 a creek 10 lbs wide
Sec. S. 850 E. into
San Francisco river and

40.00 Set a granite stone
14x12x5 ins. 9 ins
in the ground
for "4" Sec. Cor.
marked "4" on N.
for and raised

Fresh Guide Indian E.
Chains

8000
a mound of stone
along side
Pit's unpracticable
Set a granite stone
18x12x10 ins. 12 ins
in the ground for
lev. To Sta 7, 12, 13
and 18 marked
with 4 notches
on S. and 2 notches
on N. edge.

and raised a
mound of stone
along side.
Pit's unpracticable
Surface mountainous
Soil 4th rate
Dwarf oak brush
Scattering Cynon and
Juniper. Some grass
Altitude 6500 ft.

through top. & s.
Chambers

North vet. Sec. Jan 12
Sta. 12045 E.

39.00

Ascending
Top of Clatsop mt.
which is an oval
peak altitude 7750 ft.
fr. E. to W. descend

40.00

A rock in place 70x
48x4 ft. above ground
which I marked
with a cross (+) at
exact cor. point with

14 on N. side of cross
and raised a
mound of stone
alongside Pit impracticable

8.00

Set a granite stone
12x10x6 ins. 8 ins.
in the ground
for Cor. to Sec.
1, 6, 7 and 12.

Fourth grade Moundair E.
Davis

marked with 5
notches on S.
and 1 notch on
N. edge. dug
pit 18 x 18 x 12 in.
just back Sec.
5 1/2 ft. dist. and
raised a mound
of earth 7 ft.
high 4 1/2 ft. tall
alongside.

Surface mountainous
Soil 4th rate

Dwarf oak forest

Scattering pine & cedar
and Black Ash

Altitude. 6100 ft.

North pt. Sec. 1 and 6

va. 12045th

Proceeding step out

through 5 p 3 S.

Chains

- 22.00 Jubah Co. N. V.
 35.00 Foot of mt. cross
 creek 15 links wide
 Run S. 80° E. Dense
 growth ash sycamore,
 and willow along
 banks around
 40.00 Set a granite - 184645 -
 ins. 12 ins. in the
 ground for "4 Sec,
 Cor. marked "4 on
 N. face and raised
 a mound of stone
 alongside.
 Pit impracticable
 62.40 Creek 2 lbs. wide cor.
 S. V. continue account.
 8.00 Set a granite stone
 184124 12 ins. in
 the ground for
 cor. to 5 p. 2 & 3 S.

Smith's Guide Mountain
 Cairns

No. 29530 E. marked
 with 6 notches on
 each edge. and
 raised a mound
 of stone alongside
 Pile impracticable
 From which a
 cedar 12 ins. in
 diam. fr. N. 85° E.
 54 lbs. dist marked
 N. 2 S. R. 30 E. S. 31 B. 5.
 No other trees within
 circuit.

Surface mountainous
 Soil rocky 4th rate
 Dense oak brush
 Scattering pine, cedar,
 and Juniper
 Altitude 6625 ft.

E. Murchie J. S. & S.
Chairs

I carefully examined
the adjustments
of my Solar Transit
to day particularly
the latitude and
reversing apparatus
and I found them
correct.
May 6th 1884

5-25-7

Tenth Guide Meridian C. through
Ohio

From the cor. to Twp.
2 and 3 S. R. 29 & 30 E.
just established by me
I run North 74°
Dec. 31 and 36

Va. 12° 45' E.

Around

27.00

Top of mt. to S. & N. and
found altitude 7400 ft.

40.00

Set a marked
rock 15 x 10 x 6 ins.10 ins. in the
ground for 14 Sec.Cor. marked 14
on N. face and
raised a mound
of stone along side
to be impracticable

8.00

From which a
Juniper 8 ins. in diam.
to N. 70° E. 74 Sec.

Apr. 2 S.

Harris

8000

cliff marked "4"
 S. of S. No other
 trees within limits
 But a malpais rock
 12x28 ins. 8 ins. in
 the ground for
 Co. to Sec. 25, 30,
 31 and 36 marked
 with 1 notch on S
 and 5 notches on N.
 edge, and raised
 a mound of
 stones along side
 pits impracticable
 surface mountainous
 Soil 4th rate rocky
 Some scrubby
 cedar and juniper
 good grass
 Altitude 7250 ft

Fifth
~~Book~~ Guide Menden
 Chavis.

North Ft. Lee. 25730
 Va. 12045' E.

Dugout

4.50

Set a malpais rock
 12x10x10 ins. 8 ins. in
 the ground for
 "4 S. Cor. marked
 "4 on N. face. and
 raised a mound
 of stone along side
 Pit impracticable

60.00

Creek 10 lbs. wide
 Co. N.E.

8.00

Set a malpais
 rock 20x12x4 ins.
 15 ins. in the ground
 for Cor. to Sec.
 19. 24. 25. and 00
 marked with 2
 notches on S. and
 4 notches on N.

E. through Tpa. 2 to
Chains

edges, and raised
a mound of stone
alongside.

Pile underneath
From which a Juniper
8 ins. in diam., to. Oct. 35-47.
52 lbs. dirt. marked
T. 2 S. R. 28 E. S. 24
B. S. No other trees
within limits

Surface mountainous
Soil 4th rate, rocky
Dense oak and buck
brush
Scattering pine, cedar
and Juniper
Altitude 6025 ft.

Fifth North Guide Meridian
Caves

North pt. Dec 1952
No. 12030⁰E.

Descending

17.90 Dry wash 10 lbs.
wide tes. N.E.
4000 Malpais ^{rock} 16x14x7 ins.

11 ins. in. in the ground
for. "4 su. tes. marked
"4 on N. face. and
raised a mound
of stone along side.

Pit impracticable

76.50 Creek 4 lbs. wide tes. N.E.
8.00 Hit a malpais rock
15x12x8 ins. 10 ins.
in the ground
for tes. to see
of 13, 18, 19, 24 marked
with 8 notches on
N. & S. edge,
and raised a

E. through Tps. 2 & 3

Chaco

mound of stone
 alongside.
 Pits impracticable
 Surface mountainous
 Soil 2nd. rate
 Scattering Pine, cedar,
 Juniper and oak timber
 Good grass
 Altitude 6300 ft.

North of Dec. 13518
 Va. 12030' E.

Descend N.E. slope.

4000
 Set a malpais rock
 16 x 12 x 10 ins. 11 ins. in
 the ground for
 44 in. low marked
 44 on W. face. and
 raised a mound
 of stone along side
 Pits impracticable

19

~~North~~ Fifth
 grade Meridian
 Falls

77.10 Set a malpais rock
 70 x 6 x 8 ins. 15 ins.
 in the ground for
 Cor. 7, Sec. 7, T. 13.
 and 18 marked
 with 4 notches on S,
 and 2 notches on N
 edges, and raised
 a mound of stone
 alongside
 Pib. impracticable
 Surface mountainous
 Soil 2nd. rate rocky
 Scattering cedar,
 Juniper and pine
 Dune oak Fresh
 Altitude 6000 ft.

E. through Tps. 2 & 3

Main

North pt. Sec. 7 and 12
Va. 12° 30' E.

Descending slope of mt.
15.60 Foot of mt. cross
creek 15 lbs. wide.

Sec. E. ascend ridge
facing S.E.
4.000 Put a small pair rock
lexoxius lines in
the ground for
44 Sec. Lfr. marked
upon N. face, and
raised a mound
of stone alongside
Pits impracticable

48.00 Top of S.E. slope of
ridge to S.E. & E.
ascend

70.00 Creek, 2 lbs. wide
Sec. S.E. ascend
steep mt.

Fifth
 Guide Mordian E.
 Chais

8000 Set a malpais rock
 16x10x6 ins. 11 ins. in
 the ground for
 No. to No. 1, 6, 7 and
 12 marked with
 5 notches on S. and
 1 notch on N.
 edge. and raised
 a mound of stone
 along side.

Pit impracticable
 Surface mountainous
 Soil rocky 4th rate
 Scattered cedars
 oak and pine
 Good grass

Altitude 6550 ft.

through Apr. 2 d.

Chavis

North mt. Aug 1st and 6
Va. 14°30'E.

Local attraction

Ascending

4000

Set a malleo's
rod 16x12x10 in. 11

into the ground

for 14 in. Cor.

marked 14 on N.

fur. and raised
a mound of stone
alongside.

From which a Juniper
tree 18 in. in diam. frs.

N. 85° E. 32 lbs. dist.

marked 14 S. S. T.

No other trees within limits

4100

Top of mt. frs.

N. 70° S. E. sloping

to S. altitude 7200 ft.

Gradual descent to the N. E.

5th
 South Guide Meridian
 Chain

5770

Set a metal fair
 rock 18x10x4 ins.
 12 ins. in the ground
 for cor. to ~~the~~ sand
 2 S. Co. 29 and 30 E.
 marked with 6
 notches on each edge
 and raised a
 mound of stone
 along side.

Obs. impracticable

From which a
 pine tree 8 ins. in
 diam. $\text{hs. } S. 40^{\circ} N.$

26 lbs. dist. marked
 $S. 2 S. Co. 29 E. S. 1 P. T.$

No other trees within
 reach, On rocky bluff.
 This cor. is about
 4 chs. from the
 head of a gulch

P. through Feb. 2d.
Chains

and canon running
N.E. and S.E. from
a rough rocky
fluff, with a few
spruce, cedar, juniper
and oak trees about
and on it.

Surface mountainous
S. of 2nd. rate
Scattered spruce, cedar
oak and juniper
Good grass
Altitude 7000 ft

I carefully examined the
adjustments of my Solar
Transit. To-day particularly
the latitude and
reversing apparatus
and found them correct
May 7th 1854.

Birth Guide Mountain
Chamo

From the Cor. to
Tps. 1 and 2 S. R.
29 & 30 E. just established
I run N. 45 W.
bet. Sec. 31 and 36
Va. 12° 30' E.

32.50

Along E. slope of mt
to fork 110 yds. wide
water in fork Co. E.
ascend mesa

35.00

40.00

Top of mesa. ps. E. & W.
Set a malpais
rock 12x10x8 ins. 8
ins. in the ground
for 44 Sec. Cor.
marked 44 on
N. face, and
raised a mound
of stone alongside
to be unmistakable
From which a

E. through Spa. 1 S.
Chambers

Juniper tree 20 ins
in diam. to S. 82° E.
22 lbs. dist. marked
"4 S. 85°. No other
trees within limits
79.00 Leave mesa to E.
and W. Descend.

80.00 Set a granite stone
20 x 10 x 4 ins. 18 ins.
in the ground
for C.M. to S. S.
25. 30. 31 and 36
marked with 1
notch on S. and
5 notches on N. edges.
and raised a
mound of stone
alongside.

Pit impracticable
on edge of rocks.
Surface of mountains

Fourth grade Morrison
Chains

Soil ind. rate rocky
 Scattering pine, fir
 and oak
 Good grass
Altitude 6,700 ft.

North set Sec. 25000
 Va. 12080' E.

Descending

19.30

Foot of mts. level
 15 lbs. with W. N.
 Ash, sycamore, oak,
 cottonwood and
 pine along creek
 about acres N.E.

4000

end of ridge
 set a malfair
 rock 2x6x6 in.
 8 in. in the
 ground for "4"
 Sec. for marked

E. through Tpo. 1 S.
Laino

14 on N. face
and raised a
mound of stone
along side.

Pit impracticable

From which a juniper 10 ins. in dia

found. Et. 320 ft. 45 lbs.

dist. marked 44 S. B. T.

A Walnut creek is

at foot of bluff 175

Chs. Dist. East.

450 Gulch 20 ft. wide
1/2 mi. E.

8000 Set a volcanic
stone 12x12x5 ins.

7 ins. in the ground
for hor. to Secs.

19. 24. 25 and 30

marked with 2

notches on S. and 4

notches on N. edge.

Fourth Guide Mountain
Chairs

and raised a
mound of stone
along side.

Site impracticable
From which a
black oak tree 8 ins
in diam. $N. 89^{\circ} E$
2 1/2 lbs. dist. marked
T. 1 S. R. 30 E. S. 30 35.
No other tree within limits
Surface mountainous
Soil 3rd. rate rocky
Good grass
Dense oak brush
Scattering pine, cedar
juniper oak and
quince timber
Altitude 6300 ft.
West of Cor. About
10 Chs. is a high
conglomerate mass

E. through Sp. 18.

Waves

of stone East a
 few ch. is walnut
 creek and on the
 E. of it rises a
 high conglomerate
 bluff. The surface
 is very rocky,
 West and S.W. it
 appears more level
 and would afford
 fine grazing.
 To the E. the mts.
 break into deep chasms
 and cañons, between
 which rise bluff
 after bluff of the
 most rugged
 character. The formation
 seems to have been
 volcanic in its
 origin and out-

North side Menden
Chains

sequence must
have undergone
great erosion force

North pt. Nov. 19024
Va. 12030' E.

7.00 Walnut creek co. S.E.
then move to the S.

35 lbs. wide, second
step, bluff of mt.

40.00 Set a coal piece
rock 17 x 9 x 7 ins. 12
ins. in the ground
for "4 Sec. Cor. marked
"4 on N. face, and

raised a mound
of stones along side
Dib's infracture
E. side of hill slopes
to the S.E. to N.W.
and second

E. through Tpr. 1 S.

Chairs

75.00 Bottom of box caisson
4 chs. with no. H. water
in pool. Round

4.00 Set a granite rock
16x10x6 ins. 71 lbs.

in the ground for
cor. to Aug. 19. 24,

13 and 18 marked

with 2 notches on

S. and N. edges,

and raised a

mound of stone

alongside. Site

impracticable from

which a Pioneer tree

12 ins. in diam.

no. S. 10 30' E. 11 lbs.

dist. marked. T. 1 S.

R. 30 E. S. 19 B. 7.

No other trees within limits

Fourth guide Meridian
Chains

Surface mountainous
Soil 4th rate rocky
Dense oak brush
Scattering pine, cedar
oak. Juniper and
some grass

North lat. Dec. 18818
Va. 12035"E.

Occurring

3500

Top of bridge trs.

N. W. & S. E. exposed
along N. E. slope

4500

Set a malpais
rock 17x10x8 ins.
12 ins. in the
ground for 14 Sec.
hor. marked 14
on N. face and
raised a mound

E. through Sp. 1 S.

Chairs

9000
 of stone alongside
 Pit impracticable
 Not to within limits
 Set a nail pair rock
 18 x 7 x 5 ins. 12 ins
 in the ground
 for lev. to sur.

7, 12, 13 and 18 marked
 with 4 notches on S.
 and 2 notches on N.
 edges. and raised
 a mound of

stone along side
 Pit impracticable
 The soil mountainous
 Soil rocky 4th rate
 Some oak brush
 Scattered cedars, pines,
 pines oak and
 grouped timber
 altitude 6950 ft.
 May 4th 1884

Fourth guide mound
Chairs

North pt. Sec. 7 and 12
Twp. 135 E.

Along N.E. slope of
mt. spur.

4000

Set a malpais
rock 15x8x6 ins. 12
ins. in the ground
for 14 in. lev.
marked 14 on W.
face. and raised
a mound of
stone alongside.

Pit unproductive
From which a
Pine tree 10 ins. in
diam. frs. N. 65° E. 12
lbs. dist. marked
14 S. A. T. No other
trees within limits

8000

Set a malpais
rock 14x12x8 ins.

E. through Apr. 1 S.

Chairs

Lines in the ground
for Cor. to S. S.
No. 7 and 12 marked
with 5 notches on
S. and 1 notch
on N. edges, and
raised a mound
of stones along side
Pike imperceptible
Surface mountainous
April 4th site rocky
Dense oak brush
Scattering pine, fir, or
cedar and Juniper timber
good grass
- Altitude 7000 ft

North set. S. S. 1000
N. 13° E.
Descending along
N. E. slope of mt. spur.

Firth Guide Mountain Chains

- 5.65 Creek 20 lbs. wide
 lco. S. 30° E. Pine, oak
 and Sycamore along banks
 around N.W. slope of mt.
- 4000 Set a maffalo rock
 12 x 10 x 7 ins. 8 ins
 in the ground
 for 1/4 Sec. lco.
 marked 1/4 on N.
 face and raised a
 mound of stone
 alongside. Pit
 impracticable.
- 8100 Set a volcanic stone
 14 x 10 x 8 ins. 9 ins.
 in the ground
 for. Clipping corner
 to Sta. 1 S. Co. 29
 and 30 E. on the
 base line marked
 l.c. with 6 notches

E. through Tps. 1 & 2
 chains

on S. E. and N. slope.
 and raised a mound
 of stone along side
 of it impracticable
 On N. slope of mt.
 and S. W. slope of
 small ridge of same
 S. of it is a
 small gulch and
 some large pine trees
 Surface mountainous
 Soil 3rd. and 2nd. rate
 Dense oak brush
 Scattering pine
 prairie and oak
 timber.

No. 6.

5

I carefully examined the
 adjustment of my Solar
 Transit to-day particularly the
 latitude and successively adjusted
 and found them correct.

G. and S. R. Base Line
chains

From the Closing cor. to
Tps. 1 S. Rs. 29 and 30 E.
just established by me
I set off the natural
convergency, calculated
from the latitudes of the
G. & S. R. base line and
the First Standard Mer.
South. 68.73 Chs. by
running
E. on S. bdy Sec 36
Va 13'00" E

Ascend Mt.

13.00 Top of Mt. hrs N. and S.
Descend

28.73 Set a Malpais stone 12
x 12 x 10 ins 8 ins in the ground
for $\frac{1}{4}$ sec. cor. of Base line
marked B.L. $\frac{1}{4}$ on N. face
and raised a mound
of stone along side

S. W. Lee 36. R. 29 E.

Mar 1880

5800 Pits impracticable -
 Gulch 10 lks. wide, Course N.
 Arund
 6873 Set a Granite stone 20x20
 x 8 ins. 15 ins. in the ground
 for the Base Line Cor. to
 No. 1 N. Rgs. 29 and 30 E.
 marked B.L. with 6
 notches on E. W. and N.
 edges and raised a mound
 of stone along side.
 Pits impracticable
 From stone, a Juniper tree
 18 ins. dia. b. to S. 89° 30' E.
 15 lks. dist marked, B.L.
 W. B. J. T. 1 N. R. 30 E. S. 31
 Surface, Mountainous.
 Soil, rocky 3⁵ mts.
 Good grass
 Scattering pine oak and
 Juniper timber May 7th 1884

N.E.

Fourth Guide Meridian

chains

From the cor to Sp 1 S.V.
 Rs. 29 and 30 E. on Base
 Line just established by
 me I run
 North bet Secs. 31 and 36
 Va. 13-15 E.

Descend N.W. slope of
 Mt.

- 30.90 Base. Cut 5 lks wide
 Course N.E. and Ascend
 38.00 Top Mt. spur. project
 to N.E. end descend
 40.00 Set a maepris stone
 14x10x6 ins 80 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. from
 which a pine tree 14 ins
 dia. b no N. 30 W. 15 lks. dist.
 marked $\frac{1}{4}$ S. B. J.

E. through Sec. 10.

chains

A pine tree 15 ins dia base
N. 40° E. 24 lks. dist. marked
1/4 P.B.I.

4480
5600
5750

Creek 4 lks. wide course N.E.
tail N.W. 40 E. ^{along creek}
Sorghum Creek 30 lks. wide
course S. 70 E. Ascend

8000

Set a malpais stone 16
x 12 x 4 ins 10 ins. in the ground
for Cor. to Secs 25, 30, 31
and 36 marked with 1
notch on S. and 5 notches
on N. edges. raised a mound
of stone alongside - Pils
Dixpracticable -

Surface - Mountainous
Soil 2d rate -

Good grass -

Planting pine -

cedar and juniper -

Dense oak brush -

Field Guide Mexico

Chains

N. lat. Seco 25th } 30
 Va 13°-15' E.

Ascending s.w. slope
 of mountain-

40.00

Set a malpais stone
 20x18x4 ins. 15 ins. in the ground
 for 1/4 sec. cor. marked
 1/4 on W. face and raised
 a mound of stone along
 side. pitoliunpracticable

51.00

Top Mt. Altitude 8000 ft.
 One NW and S.E. and
 descend

80.00

Set a granite stone 18x18x10
 ins. 12 ins. in the ground for
 cor. to Seco. 19, 24, 20 and
 30 marked with 2 notches
 on S. and 4 notches on N.
 edges and raised a
 mound of stone alongside
 from which a Pine tree

E. through Tpo. 1 N.

Wanam

10 ins. dia bro S. 20 E. 30 lbs
diat. marked N.N. R. 30 E.
S. 30 B. J.

A Juniper tree 20 ins. diam.
bro. N. 35 E. 32 lbs. diat.
marked N.N. R. 30 E. S. 19 B. J.

No other trees in limits -

Surface Mountainous
Soil rocky 3^d rate

Dense oak undergrowth.

1st Pine, Cedar & juniper in
clumps -

N. bet. Lees, 19 and 24,
Va. 13° - 15° E.

Descending

1220
40.00

Creek 5 lbs wide. Course N. E.

Set a granite stone 18x12x10
ins. 12 ins in the ground for 1/2
sec. cor. marked X on N.
face and raised a mound

P.C.

Fourth Grade Meridian

Chains

of stone alongside - from
 which a juniper 18 ins. dia.
 bro. S. 10° E. 12 lks. dist. marked
 1/4 S. B. U.

64.50 Creek 30 lks. wide, 3 lks. deep -
 Course S. 60° E. Foot of Mt.

66.00 Begin ascent of rough
 broken mt. side

80.00 Set a Malpais stone 16 x 10
 x 8 ins. 10 ins in the ground
 for the cor to beco 13. 18. 19
 and 24 marked with
 3 notches on N. & S. edges
 and raised a mound of
 stone alongside - from
 which a juniper 12 ins. dia.
 bro. S. 50° W. 30 lks dist. marked
 S. 1 W. R 29 E. S. 24 B. U.
 A juniper 8 ins. dia. bro. S.
 37° W. 10 lks. dist. marked
 S. 1 W. R 29 E. S. 24 B. U.

8 through Jan. 1 N.

Main

No other trees in limits -
 Altitude 6600 ft.
 Surface Mountainous
 Soil rocky - 3d date
 Dense oak undergrowth -
 Good growth of *Q. v. macriline*
 Cedar & juniper -

N. bet Leeco. 13th & 18
 Va 13th - 20th E.

Ascending

4000 Set a Malpais stone 16x9
 x 4 ins. 10 ins in the ground for
 1/4 Dec. Cor. marked 1/4 on
 N. face and raised a mound
 of stone along side. Pits
 impracticable.

7600 Gulch 20 lbs. with lumen S.W.
 8000 Set a block of red oxide of
 copper 18x9x5 ins. 12 ins. in the
 ground for Cor. to Leeco

S.E.

Fourth Guide Mountain
Chain

7, 12, 13 and 18 marked
with 4 notches on S. and
2 notches on N. edges,
and raised a mound
of stone alongside -
Pis impracticable -
Altitude 7500 ft -
Copper indications along
the Mt. cliffs.
Surface Mountainous.
Soil - 3d rate.

Dense oak undergrowth
Scattering pine, cedar
and juniper May. 10th 1884

N. bet Secs 7 and 12
Val 13° 20' E.

Ascending
29.00 Top of Red Mt. Crs.
E. & W. Altitude 8350 ft.
Descend

C. through Tps. 101.

Main

- 39.00 Foot-^{of mt} head of gulch-dro.
West. ascend E.W. slope
- 40.00 Set a malpais stone 17x9
x7 ins 8 ins. in the ground
for $\frac{1}{4}$ sec. cor. and raised ^{marked $\frac{1}{4}$ on W face}
a mound of stone along-
side - from which a pine
tree 10 ins. diam. bro N. 60 W.
34 lks. dist marked $\frac{1}{4}$ S,
B. I.
- 57.00 Top mt. bro N. W. & S. E. and
descend
- 73.45 Foot-^{of mt} Creek 4 lks. wide
Course S. W. ascend
- 80.00 Set a Granite stone 18x18
x4 ins. 12 ins. in the ground
for the cor to Sec. 1, T. 7
and 12 marked with
5 notches on S and 1 notch
on N. edges and raised ^{along side}
a mound of stone, from

S. E.

and

Fourth Gull Mill air

Stand

which a Pine tree 4 in
dia bro. S. 86° W. 8 lks
dist marked J. M. R. 29 E.
S 12 B. J.

Altitude 8000 ft.
Surface Mountains
Soil 35 or 40
Dense oak wood under
growth - scattering
pine and cedar.

N. bet. Seco. 1 and 6
Va 13° 30' E
Ascending D. E. mt.
slope

1900 Top of mt. bro. E. W.
Altitude 8900 ft.

Descend
3900 Foot - Creek 3 lks wide

56
G. through Tps. 1 & 2.

Chains

- 40.00 Course S.W. Ascend
Mapped a Pine 5 ins.
dia. ^{for hole, cor.} on N. face thus
1/4 S. ^{any round ground} from which a
Pine tree 10 ins dia. bore.
S. 50° E. 8 lko dist marked
1/4 S. B. T. no other trees in
limits
- 58.00 Top Mt ridge bore E. & W.
Ascend
- 72.00 Base Creek 4 lko wide
course W. Ascend
- 80.00 Set a Malpais stone
18 x 6 x 6 ins 12 ins in the
ground for the cor to Tps
1 & 2 N. Rgs. 29 & 30 E.
marked with 6 notches
on each edge and
raised a mound of
stone alongside - pits
impracticable
- S.E.
road

Fourth guide Mendocino E. through
 chains. p. 104.

Surface Mountainous
 Soil. 3d rate
 Dense oak underbrush
 Scattering Pine -

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

May 12th 1854

4th Guide Meridian E. through
 chains
 Twp 2 N.

From the cor to Twp 142 N.
 P's. 29 and 30 E just es-
 tablished by me I run
 North bet. Secs. 3/4 & 36
 Va 130 30' E.

Ascending
 10.00 Top Mt. - hrs. E & W.
 Altitude 8600 ft. Descend
 40.00 Set a malpais stone 18
 X 12 X 6 ins 17 ins in the ground
 for the sec. cor. marked by
 on W. face and raised
 a mound of stone
 along side - pits imprac-
 ticable.

76.00 Springs Creek 4 blocks
 Course N. E.

80.00 Set a Volcanic stone
 18 X 12 X 10 ins 17 ins in the
 ground for the cor to

S.E.

E. through Sp. 2 N.

Mines

- 2600 Leave creek bottom and ascend
- 34.75 Spring creek 4 lks wide
course N.E.
- 40.00 Set a malpais stone
12x12x4 ins., 8 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
this impracticable.
- 71.00 Top Mt. Spur project S.E.
Descend
- 80.00 Set a malpais stone 18x18
x6 ins 12 ins in the ground for
cor. to Lees 19, 24, 25 & 30
marked with 2 notches on the
S. and 4 notches on N. edges
and raised a mound of
stone along side of
which a pine tree

To north Guide Mountain E.
Chavis

8 ins. dia. bro S. 8° E. 26 lks.
dist. marked T 2 N. R. 30 E.
S. 30 B. T. No other trees in
limits-

Surface - mountainous -
Soil 2d rate

Drum oak undergrowth -
Scattering 1st rate pine
cedar and juniper -
May 13th 1884

N. bet. Secs. 19th & 24
Ya 13° 30' E.

Descending

3900 Fort - track 4 lks. wide Course
S. E. and ascend

4000 Set a Malpais stone
18 x 12 x 10 ins 17 ins in the
ground for 1/4 sec. cor.
marked 1/4 on N. face

through Sp. 2 North
Chairs

and raised a mound
of stone along side. Pits
Unpracticable

52.00 Top of ridge-projects S.E.
Descend

62.00 Creek 3 lks. wide. Course S.E.
Ascend

71.00 Top mt. spur-projects S.E.
Descend

79.00 Foot-Creek 6 lks. wide, Course S.E.
Ascend

80.00 Set a Malpais Stone 16
x 12 x 5 ins 10 ins in the ground
for cor. to Secs 13, 18, 19 and
24 marked with 3 notches
on N. and S. edges and
raised a mound of
stone along side from
which a Pine tree 14 ins. dia
bros. N. 20° W. 40 lks. dist
marked J. 2 N. R. 29 E.

South Side Meridian E.
 Meris

S/3 B.S. no other
 trees in limits -
 Altitude 7100 ft.
 Surface - Mountainous
 Soil 3d rate

Druse oak undergrowth.
 Scattering 1st rate Pine
 May 14th 1884

N. bet. Secs. 13rd & 18
 Va 13-40' E.

Ascending

10
 40.00 Creek 3-400. wide cone S.W.
 Sit a malpais stone
 17x7x5 ins 11 ins at the
 ground for 1/4 sec. cor.
 marked 1/2 on W. face
 and raised a mound of
 stones along side - Also
 inscriptions -

through Sp. 2 North

Mains

- 60.00 Top spur of Mt. Projecto
S.E. - Descend
- 68.00 East & ascend
- 80.00 Set a molpaís stone 11
x 12 x 15 ins 11 ins in the ground
for the cor to Dec 7, 12, 13
and 18 marked with 4 notches
on S, and 2 notches on N.
edges and raised a mound
of stone alongside. Ditto
impracticable. Alt. 8600 ft.
Surface. Mountainous
Soil 35 rods
Dense oak undergrowth -
Scattering 1st rate pine
and spruce
May 15th 1884

Fourth Guide Meridian E
 Series

N. bet Secs. 7^{and} 12
 Va 13°-40' E.

Ascending

- 7.00 Top of Mt Spur - projects
 Easterly - descend
- 40.00 Set a malpais stone 12x10
 x 7 ins. 8 ins in the ground for
 the cor. cor. marked $\frac{1}{4}$ on
 W. face and raised a
 mound of stone along
 side pits impracticable -
- 43.00 Oak 3 lks. wide Course N.E.
- 70.00 Oak 3 lks. wide Course S.E.
- Ascend
- 80.00 Set a malpais stone 18x8
 x 8 ins 12 ins in the ground
 for the cor. to Secs 1, 6, 7 and
 12 marked with 5 notches
 on S, and 1 notch on N,
 edges and raised a mound
 of stone alongside pits

through Sp. 2 North

Chains

impracticable. Alt. 7900 ft.
 Surface Mountainous
 Soil - rocky 3d rate
 In some rate undergrowth
 Scattering 1/2 m. pine and
 Spruce -

N. bet. Secs. 1 and 6
 Va 13° 40' E

Ascending

10.00 Top Mt spur, projects E.
 Descend

22.80 Creek 25 lks. wide, runs S. 60° E.

Ascend

36.00 Top Mt. spur, projects E.
 Descend

40.00 Set a malpais stone 16
 x 10 x 10 ins. 10 ins. in the ground
 for 1/4 sec. cor. marked

Fourth Guide Meridian E.

Chains

1/4 on N. face and raised
a mound of stone alongside,
from which a Pine tree 12
ins. dia. brs. S. 40° W. 37 lks.
dist. marked 1/4 S. B. T.

5615 Creek 2 lks, wide, Course S. E.
Begin ascend of main
mountain range

8000 Set a molpas stone
18x12x8 ins. 18 ins in the ground
for cor to No. 28 & 29. R. 29
& 30 E. marked with
6 notches in each edge
and raised a mound of
stone alongside from which
a juniper 26 ins. dia. brs.
N. 87° E. 30 lks. dist. marked
1/3 N. R. 30 E. & 31 B. T.

A juniper 20 ins dia. brs.
N. 86 1/2° W. 50 lks. dist.
marked 1/3 N. R. 29 E.

through Sp. 2 North

Notes

S. 34 B. T.
 Altitude 8350 ft.
 Surface - Mountainous
 Soil - 4th rate
 Dense oak undergrowth
 Scattering 1st rate pine
 Cedar & juniper -

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

May 16th 1884

Fourth Guide Meridian E.
Chais

From the cor. to Sp 2737.
R's. 29 & 30 E. just estab-
lished by me I run
N. bet. Lees 31^{and} 36
Va 13°-45' E.

Ascending Mt.

40.00

Set a Malpais stone
14x14x5 ins 10 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.
Rite impracticable.

50.00

Top of Spur projects
S. E. Alt. 10000 ft.
Descend

59.00

Foot-head of gulch, No. 16.
Ascend

79.00

Top of Mt. bro, E. & W.
Altitude 10400 ft.

80.00

Set a Post 4 ft. long

Through of 3. North

Chains

4 ins. sq. with marked
stone 12 ins in the ground
for cor. to Secs 25, 30, 31
and 36 marked J. 3 N. S. 30
on N.E. R. 30 E. S. 31 on S.E.
R. 29 E. S. 36 on S.W. and
S. 25 on N.W. faces 1 notch
on S. and 5 notches on N.
edges, and raised a mound
of stone 2 ft. high 4½ ft.
base around post, from
which an Aspen 6 ins dia.
bro N. 89 W. 25 lks. dist.
marked J. 3 N. R. 29 E.
S. 25 B. J.

An Aspen 6 ins dia. bro N. ½ W.
20 lks. dist. marked J. 3 N.
R. 29 E. S. 25 B. J.

An Aspen 6 ins. dia. bro S. ½ W.
17 lks. dist. marked J. 3 N.
R. 29 E. S. 36 B. J.

Fourth Guide Meridian E.

Summit

An aspen 6 ins dia.
 bro S. 87° E. 57 lks. dist.
 marked T. 37. R 30 E.
 P. 31 B. 1. Alt. 10400 ft.
 Land mountainous
 Soil 3rd rate -
 Dense oak and aspen
 undergrowth -
 Dense growth of pine
 and aspen -
 Scattering 1st rate spruce
 May 17th 1884

The continuation of this
 line is rendered impossible
 by the depth of the snow,
 deep canons and high
 perpendicular bluffs
 stopping further advance
 of the pack train

General Description

The surface of the country through which this line extends is wholly mountainous and of the roughest character making the establishment of the line a work of great hardship. The grazing facilities of many portions are unsurpassed. Game of all kinds is plentiful - especially Bear, deer and wild turkey.

Final Oaths for Surveys.

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LIST OF NAMES.

BOOK 1460

A List of the Names of Individuals employed by
J. B. McLaughlin U. S. Deputy Surveyor to
assist in running, measuring and marking the lines and
corners described in the foregoing Field Notes of the survey of
the 1st. Stand. Par. S. through Co. 11, 12, 13 & 28,
The 2nd. Stand. Par. S. through Co. 19, 20, 21, 26 & 28,
The 5th Guide Meridian E. bet. Co. 29 & 30 &
through Tps. 1, 2, 3 & 4
N. of the Gila & Salt Rivers
~~of the principal~~ base and meridian in the Territory of Arizona,
showing the respective capacities in which they acted.

John D. Austin Chairman

James G. H. Mitchell "

Willis H. Walker "

Samuel Thomas "

Tom Blount Edward Lee Alexander

John C. Smith Foreman

Final Oaths of Assistants.

We hereby certify that we assisted Johnston

B. McLaughlin U. S. Deputy Surveyor, in surveying
The 1st Stand. Cor. S through Co. 71.12.18522E
The 2nd Stand. Cor. S through Co. 1920.25
26522E. The 3rd guide Mar. E. lat. Co.
29530E. Through Tr. 1.253 S. 9/2.354 N.
of the gila and salt river

~~of the principal~~ base and meridian in the Territory of Arizona,
as are represented in the foregoing field notes as having been
surveyed by him and under his direction; and that said Survey
has been in all respects, to the best of our knowledge and belief,
well and faithfully surveyed, and the corner monuments es-
tablished according to the instructions furnished by the U. S.
Surveyor-General for Arizona.

John Curtis Chairman
James G. W. Mitchell ..
Willie W. Walker ..
Sidney Thomas ..
Tom Elephant Arman
Edward Lee ..
John V. Smith Flagman

Subscribed and sworn to before me this 17th

day of May 1884

J. B. McLaughlin
Notary Public.

Final Oath of U. S. Deputy Surveyor.

No. 1460

I Johnston B. McLaughlinUnited States Deputy Surveyor, do solemnly swear that in
pursuance of instructions received from Joseph W.Robins

U. S. Surveyor General for Ari-

zona bearing date of the 18th day of June1883. I have well, faithfully, and truly, in my own proper

person and in strict conformity, with the instructions furnish-

ed by the U. S. Surveyor General for Arizona, the surveying

manual and the laws of the United States surveyed the 1stQuarter Sec. 8 through Sec. 11, 12, 10 & 22 E.The 4th, 5th & 6th through Sec. 19, 20, 25, 26 & 22 E.The 6th Guide Mer. E. 1st. Sec. 29 & 30 E.Through Twp. 1, 2, 3 S. and 1, 2, 3 & 4 N.4th & 5thof the ~~principal~~ base and meridian in the Territory of Ari-

zona, as are represented in the foregoing field notes as having

been surveyed by me and under my direction; and I do further

solemnly swear that all the corners of the said survey have been

established and perpetuated in strict accordance with the survey-

ing manual, printed instructions, the special written instruc-

tions of the U. S. Surveyor General for Arizona, and in the

specific manner described in the field notes, and that the foregoing are the true field notes of such survey, and should any fraud be detected I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Johnston B. McLaughlin
U. S. Deputy Surveyor.

Subscribed and sworn to before me, this 17th
day of May 1884

R. L. Powers
Notary Public.



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B. T.
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U. S. Surveyor General's Office,

Tucson, Arizona, July 21, 1884

The foregoing Field Notes of the Survey of the

Gila and Salt River Meridian E.
between Ranges 29 + 30 East
through Townships 1 + 2 + 3 S.
and Townships 1 + 2 + part of 3 North

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

Deputy Surveyor, under his contract of the 18th

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.