Book 1

See Index

Gila and Salt River Base and line Meridian

Ranges 9 through 10, 11, 12, 13, 14, and 15 E.

Albert T. Colton

4–671

FIELD NOTES

GENERAL LAND OFFICE.

Gila & Salt River Base through Rs 9, 10, 11, 12, 13, 14 & 15 E.

Field Notes of the Survey of that portion of the Base line extending from Tp 1 N Rs 8 & 9 E to the corner of Tp 1 N. Rs. 15 & 16 E. Gila & Salt River Base & Meridian, Arizona

As Surveyed by
Albert T. Colton
U. S. Deputy Surveyor
under his contract No 5-2
Dated Apr 18 1899

Survey Commenced July 10, 1899

Survey Completed July 29, 1899.

Gila + Salt River Base through Rs 9. 10. 11, 12, 13, 14 + 15 E.

Names + Duties of Assistants.

Charles Irvine — Chainman
Harvey Elliott — "
Walter Bailey — "
John Brady — "
Fred Merritt — Flagman
Juan B Gary — Rodman

Index,

T. 1 N. R 9 E

31	32	33	34	35	36
11	13	16	17	19	21

T 1 N R 10 E.

31	32	33	34	35	36
23	24	27	29	31	32

T 1 N R 11 E.

31	32	33	34	35	36
34	36	40	42	44	45

T 1 N R. 12 E

31	32	33	34	35	36
47	49	51	52	54	56

T 1 N R. 13 E.

31	32	33	34	35	36
58	60	62	63	65	68

Gila + Salt- River Base through
Ro 9. 10. 11. 12. 13. 14. + 15- E.

T 1 N R. 14 E

31 | 32 | 33 | 34 | 35- | 36 |
69 | 71 | 73 | 75 | 76 | 78 |

T 1 N R 15- E

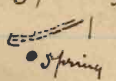
31 | 32 | 33 | 34 | 35- | 36 |
80 | 82 | 84 | 86 | 87 | 89 |

N

T 1 N R 9 E

31 | 32 | 33 | 34 | 35- | 36 |

T 1 N R 10 E



31 | 32 | 33 | 34 | 35- | 36 |

R 11 E

31 | 32 | 33 | 34 | 35- | 36 |

R 12 E.

31 | 32 | 33 | 34 | 35- | 36 |

W

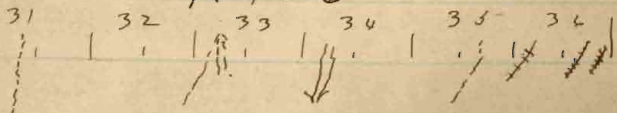
R 13 E.

31 | 32 | 33 | 34 | 35- | 36 |

R 14 E.

31 | 32 | 33 | 34 | 35- | 36 |

R 15- E



31 | 32 | 33 | 34 | 35- | 36 |

S.

4

BOOK 1326

Preliminary Oaths of Assistants.

We, Chester Irwin, John Brady,
and Walter Baily, & Harvey Elliott
do solemnly swear that we will well and faithfully execute the duties of Chain Carriers; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Gila and Salt river Base line through Ranges 9, 10-11-12, 13, 14 & 15 East

of the Gila and Salt River Base and Meridian in the Territory of Arizona.

Chester Irwin Chainman.
John Brady Chainman.
Walter Baily Chainman.
Harvey Elliott Chainman.

Subscribed and sworn before me, this 8th day of July 1899

Daniel C. Stevens
Notary Public

[SEAL.]

Clerk District Court, Second Judicial District, Arizona.

We, Fred. Merritt

and Juan B. Gay,

do solemnly swear that we will well and truly perform the duties of Flagmen and Axmen

in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the Gila and Salt River Base Line through Ranges 9, 10, 11, 12, 13, 14 & 15 East,

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

Fred Merritt

Juan B Gay

Subscribed and sworn to before me this 8th day of July 1899

Daniel C. Stevens

Notary Public.

Gila & Salt River Base Merid.

BOOK 1326

R. 9 E.

chs

Survey commenced July 10/1899
And executed with a Young & Sons Light-Mountain Transit No 5-706 with Solar attachment.
The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of latitude & the declination arcs.
The instrument was examined, tested on the true meridian at Tucson, found correct & was approved by the U.S. Surveyor General for Arizona,
June 26, 1899

Gila + Salt River Base
Through R 9 E

No. 1326

chs

I begin at the witness cor to the true cor point for corner T 1 N Ro 8 + 9 E. which is a rock 12 x 6 x 3 ins, marked + witnessed as described by the Surveyor General.

Lat. 33° - 22° - 28" N.

Longitude 111° - 27' - 32" W

In order to test the solar apparatus by comparing the results of observations on the sun made during A.M. + P.M. hours with a true meridian determined by observations on Polaris, I proceed as follows: -

At 4 P.M. local mean time I set off 33° 22' on lat. arc 22° - 12' N on Decl arc + mark true meridian thus

Gila & Salt River Base
Through R 9 E

chs

determined with the solar, by cross & stone firmly set in the ground 5 chs N of the instrument.

July 10 1899

July 11, 1899: At 12h 5min A M by my watch, which is correct local time, I observe Polaris at Eastern elongation, in accordance with instructions in the manual, & mark the line thus determined, by cross on stone firmly set in the ground 5 chs N of my station.

At 8 A.M. I lay off the azimuth of Polaris 1° 28' to the West & mark the true meridian by cutting a small groove in the

chs

stone set last evening on which the true meridian falls 12 ins West of the mark determined by solar.
At 8 A.M. I set off 33° 22' on the Lat arc; 22° 5' N. on declare & mark the true meridian determined with the solar, by a cross on the stone already set 5 chs N. of my station; this mark falls 16 ins West of the true meridian established by Polaris observation.
The Solar apparatus by P.M. & A.M observations defines position for true meridian about 6" E, and 8" W. of the meridian established by Polaris observations. I conclude that-

Gila + Salt River Base
through R. 9 E.

chs
the adjustments of the instrument are satisfactory.
The magnetic bearing of the true meridian at 8th A M is N. 14° 12' E, the angle thus determined reduced by the table page 100, gives the mean magnetic decl 14° 8' E.
From the witness corner above described I run
North
Along the Eastern base of mountain
2.50 Center of wash 10 lks wide course S 25° W.
12.00 Top of spur + descend.
Difference between measurements of two sets of chainmen of 18 chs, is 2 lks; position of middle point by

Gila + Salt River Base
Through R 9 E

chs

12 l. 18.01 chs.

Bng 2nd 17.99 chs the meanders

18.00 I set a granite rock 30 x 20 x 10 ins
20 ins in ground for Standard
cor of T 1 N. R 8 + 9 E. marked
S.C. on N. with 6 grooves on
N.E + W. faces. Raised
mnd of stones 2 ft base +
1½ ft high N. of cor.
Pits impracticable.
Land mountainous
Soil 4th rate.
No timber.
Mountainous land 18 chs
Lat 33° 23'

From the Standard cor
above described I run
E. on South bdy of Sec 31
descending q.

Gila & Salt River Base through R 9 E

chs	
22.50	Foot of mountain
	Difference between measurements of 40.00 chs by two sets of chainmen is 6 lks. position of middle point-
	By 1st set 40.03 chs
	By 2nd " 39.97 chs the mean of which is
40.00	Set granite rock 16 x 10 x 6 ins 10 ins in ground for Stand ard 1/4 sec cor. marked S 1/4 S on N face; raised md of stones 2 ft base 1 1/2 ft high N of cor.
	Pits impracticable.
79.40	Center of a dry bed creek 80 lks wide course S 10° W.
	Difference between measurements of 80.00 chs by two sets of chainmen is 10 lks. position

Gila + Salt River Base
Through R 9 E

chs
of middle pond-
By 1st set 79.95 chs.
By 2nd set 80.05 chs
The mean of which is
80.00 Set granite rock 16"x2"x10" ins
10 ins in ground for Standard
cor of secs. 31 & 32. marked
S.C. on N. with 5 grooves on E
& 1 groove on W faces.
Rain md of stones 2 ft-
base 1½ ft- high N. of cor.
Pits impracticable
Land broken.
Soil stony 3rd rate.
Brush mesquite & cato-
clam 80 chs
July 11, 1899

East of S bdy sec 32
Through dense mesquite brush

Gila + Salt River Base
thro Range R 9 E.

chs	
22.00	Base of spur brs N. & S.
28.00	Top and descend.
	Difference in measurements of 40 chs by two sets of chainmen is 6 lks
	Position of middle point-
	By 1st set 39.97 chs
	By 2nd set 40.03 chs
	The mean of which is
40.00	Set granite rock 20 x 8 x 6 ins 10 ins in ground for Standard 1/4 sec cor marked S.C. 1/4 on S face. Raise md of stone 2 ft base 1 1/2 ft high N of cor. Pits impracticable
60.00	Ascend.
63.00	Top of hill brs N. & S.
67.00	Ft of hill
	Difference in measurements

Gila + Salt River Base.

Traverse R & E

chs

of 80.00 chs by two sets of chainmen is 12 chs

Position of middle point-

By 1st set is 79.94 chs

" 2nd " " 80.06 chs.

The mean of which is

80.00 Set granite rock 24x20x10 ins 16 ins in ground for cor ners 32 + 33 marked S C on N. with 4 grooves on E + 2 grooves on W faces.

Build mnd of stones 2 ft base 1½ ft high N. of cor

Pits impracticable

Land broken + mountainous

Soil rocky 3rd rate

Some bunch grass 22 chs

Mountainous 78 chs

#6

BOOK 1326 Gila + Salt- River Base
Through R. 9 E

chs

East on S bdy Sec 33
over mountainous land
Difference in measure-
ments of 40.00 chs by two
sets of chainmen is 4 lks.
Position of middle point
By 1st set 39.98 chs
" 2nd " 40.02 "
The mean of which is

40.00 Set granite boock 16x8x6 ins
10 ins in ground for 1/4 sec
cor marked S.C. 1/4 S on N. face
with 3 grooves on E + W faces
in Raise Mound of
stones 2 ft base 1½ ft high
N. of cor. Pits impracticable.
Difference in measure-
ments of 80 chs by two
sets of chainmen is 14 lks

chs

Position of middle point-
By 1st set 80.07 chs
" 2nd " 79.93 "
The mean of which is

80.00 Set granite rock 24x18x10 ins 18 ins in ground for Standard cor see 33 & 34 marked S.C. on N face with 3 grooves on E & 3 grooves on W faces Build mnd of stones 2 ft- base 1½ ft- high North of cor. Pits impracticable Soil rocky 4th rate Land mountainous 80 chs

East- on S bdy see 34 cor mountainous land Difference in measurements of 40 chs by 2 sets of chainmen is 2 lks

Gila + Salt River Base through R 9 E

chs

Position of middle point-
By 1st set 40.01 chs
" 2nd " 39.99 "
The mean of which is

40.00 Set granite rock 16x8x6 ins 10 ins in ground for Standard 1/4 sec cor marked S.C. 1/4 S on N face. Build md of stone 2 ft base 1½ ft high N of cor. Pits impracticable Banks well 10 chs N.

July 12, 1899.

Difference bet measurements 80 chs by 2 sets of chainmen is 6 lks. Position of middle point-
By 1st set 80.03 chs
" 2nd " 79.97 "
The mean of which is

80.00 Set granite rock 20x10x8 ins

Gila & Salt River Base

Unoffic R G E

chs

12 ins in ground for cor secs 34 & 35 marked S.C. on N face with 2 grooves on E & 4 grooves on W faces. Build md of stones 2ft base 1½ft high N of cor. Pits impracticable.

Soil rocky, 3rd rate.

Land mountainous.

80 chs

E on S bdy sec 35 over mountainous land

Difference in measurements of 40chs by two sets of chainmen is 8 lks

Position of middle point-

By 1st set 40.04 chs

" 2nd " 39.96 "

The mean of which is

Gila & Salt River Base through R. 9 E.

chs	
40.00	Set granite rock 20x18x10 ins 12 ins in ground for standard 1/4 sec cor marked S.C. 1/4 S on N. face. Build mnd of stones 2 ft base 1½ ft high North of cor Pilo ins impracticable,
	Difference in measurement 80.00 chs by 2 sets of chainmen 8 links. Position of middle point.
	By 1st set 80.04 chs
	" 2nd " 79.96.
	The mean of which is
80.00	Granite rock in place 60x48x40 ins above ground marked with x at cor point S.C on N face 1 groove on E & 3 grooves on W faces.
	Build mnd of stones 2 ft

Gila & Salt River Base
Thorough's R. 9 E

chs

base 1/2 ft high N. on cor
secs 35 & 36.
Soil 4th rate, rocky
Land mountainous 80 chs

E on S bdy sec 36

18.00 Top of rocky mountain
Difference in measurements
40.00 chs by two ends of chain
is 6 lks.
Position of middle point -
By 1st set 40.03 chs
" 2nd " 39.97 "
The mean of which is
40.00 Set granite rock 20 x 12 x 4 ins
12 ins in ground for Stand.
and 1/4 sec cor marked S C 1/4 S
on N face. Build mnd
of stones 2 ft base 1 1/2 ft high
N of cor. Pits impracticable

22 Gila + Salt River Base
through R. 9. E.

BOOK 1326

chs

le.

July 13, 1899.

Difference in measurement
8 chs by two sets of chainmen
is 8 lks.

Position of middle point:
By 1st set 80, 04 chs
" 2nd " 79, 96 "

The mean of which chs

80, 00 Set granite rock 30 x 18 x 14 ins
20 ins in ground for cor
T. 1 N. Rs 9 + 10 E marked
S. C 1 N on N face 10 E
on E face + 9 E on W face
+ 6 grooves on N. E + W faces
Build md of stones 2 ft base
1 1/2 ft high N of cor. Pits
impracticable
Soil rocky 4th rate
Land mountainous 80 chs

Pilot Salt River Base
through R 10 E

chs

E on S bdy sec 31
over mountainous land
Difference in measure-
ments 40 chs by two sets
of chainmen = 4 lks. Posi-
tion of middle point:
By 1st set 39.98 chs
" 2nd " 40.02 chs
The mean of which is

40.00 Set granite rock 18x10x10 ins
10 ins in ground for Standard
1/4 sec cor marked S.C. 1/4 S on
N. Build md of stones
2 ft base 1 1/2 ft high N.
of cor. Pilot impracticable.
La Barge spring 10 chs S.

48.00 Right-bank La Barge wash
course S. 87° W.

49.00 Left-bank
Difference in measure-

Gila & Salt River Base

through R 10 E

chs

mound of 80 chs by two
sets of chainmen is 4 lks
Position of middle pt
By 1st set 79.98 chs
" 2nd " 80.02 "
The mean of which is
80.00 Granite rock in place
96 x 48 x 24 ins done ground
mark x at cor to sec
31 & 32, S.C. on N. face, 5
grooves on E & 4 on W faces.
Build mound of stones
2 ft base & 1½ ft high N of cor
Pits impracticable
Soil 4th rate rocky,
Land mountainous 80 chs

E on S. bdy sec 32
over mountainous land
Difference in measure.

Gila & Salt River Base 23
through R 10 E

chs

ments 40 chs by 2 sets of chainmen is 6 hrs.
Position of middle point-
By 1st set 39.97 chs
" 2nd " 40.03 "
The mean of which is
40.00 Set granite rock 16x10x8 in 10 ins in ground for 1/4 sec cor marked S.C. 1/4 S on N face. Build md of stones 2 ft base 1 1/2 ft high on N of cor Pits impracticable.
51.25 Road to Bark & Cressmill house brs N & S.
53.00 Right bank Marlow wash course S 30° W.
57.50 Left bank
Difference in measurements 80 chs by 2 sets of chainmen is 8 hrs

Gila + Salt River Base through R 10 E

chs

Position of middle point-
By 1st set 79.96 chs
" 2nd " 80.04 "
The mean of which is

80.00 Set granite rock 24X10X6 ins 18 ins in ground for cor secs 32 + 33. Build md of stones 2 ft base 1½ ft high N of cor. Pits impracticable. The stone I mark S.C. on N face, 4 grooves on E + 2 on W faces Bark + Cresswell road about 10 chs W. N.

Soil 4th rate rocky
Land mountainous 80 chs

Gila + Salt River Base
through R 10 E

chs	
	E on S bdy sec 33 over mountainous land.
19.00	foot of bluff 30 ft high nearly perpendicular impractical to ascend Mark X at point of intersection. 1 offset S 2 chs end of offset. Thence E 2.70 chs Thence N. 2 chs to line, On top of bluff brs N + S.
22.00	Descend
34.00	Foot of bluff
37.00	Ascend
	Difference in measurements 40 chs by 2 chs of chainmen is 10 chs
	Position of middle point
	By 1st set 39.93 chs
	" 2nd " 40.03 "
	The mean of which is

Gila & Salt River Base through R 10 E.

chs	
40.00	Mark + on side of rock bluff 8 ft high marked S.C. 1/4 S on W side. Build md of stones on W Pits impracticable
67.00	head of Tully cañon course S. Willow spring about 60 chs down cañon Difference in measurements of roads by 2 sets of chainmen is 10 lks Position of middle point- By 1st set 79.95 chs " 2nd " 80.05 " The mean of which is
80.00	Set granite rock 24 x 12 x 9 in 18 ins in ground for cor secs 33 & 34 marked S.C. on N. with 3 grooves on E & 3 on W faces.

Gila & Salt River Base
Through R 10 E

chs

Build mnd of stones
2 ft base 1½ ft high N of cor
Pits impracticable.
Soil 4th rate, rocky.
Land mountainous 80 chs
July 14 1899

E on S bdy sec 34.
over mountainous land
Difference in measure-
ments 40 chs by 2 sets of
chainmen is 4 lks
Position of middle point
By 1st set 40.02 chs
" 2nd " 39.98 "
The mean of which is

40.00 Set granite rock 16 x 10 x 8 ins
10 ins in ground for 1/4 sec
cor marked S C 1/4 S on N face
Build mnd of stones 2 ft
base 1½ ft high N of cor

30 Gila + Salt River Base
through R 10 E
BOOK 1326

chs

Pilo impracticable
On bottom of cañon course N.
Difference in measurements
80 chs by 2 sets of chainmen
is 6 lks.
Position middle point -
By 1st set 80.03 chs
" 2nd " 89.97 "
The mean of which is
80.00 Set granite rock 30x24x6 ins
20 ins in ground for cor secs
34 + 35. Marked S.C. on N face
2 grooves on E + 4 grooves
on W faces. Build mnd
of stones 2 ft. base 1½ ft. high
N of cor. Pilo impracticable.
Soil 4th rate rocky
Land mountainous 80 chs

Gila & Salt River Base

Ubrangle R 10 E

chs

E on S bdy sec 35 -
over mountainous land.
Difference in measure-
ments 40 chs by 2 rods chain-
men is 4 lks
Position middle point -
By 1st set 40.02 chs
" 2nd " 39.98 "
The mean of which is
40.00 + on top rock ledge 2 ft -
high 1/4 S. on top ledge.
Build md cairn 2 ft base
1 1/2 ft high N of cor point -
Pits impracticable
Difference in measure-
ments of 80 chs by 2 rods
chainmen is 6 lks
Position of middle point -
By 1st set 80.03 chs
" 2nd " 79.97 "

32 Gila & Salt River Base

through R 10 E

chs	
80,00	The mean of which is Set granite rock 26x20x6 ins 18 ins in ground for cor secs 33 & 36 marked S.C. on N 1 groove on E & 3 on W faces Build md stones 2 ft base 1½ ft high N of cor. Pits impracticable. Soil 3rd rate rocky Land Mountainous 80 chs
	E on S bdy sec 36 over mountainous land Difference in measurements 40 chs is 10 lks Position middle point- By 1st set 40.03 chs " 2nd " 39.93 "
40,00	The mean of which is Set granite rock 20x12x12 ins

Gila or Salt River Base
through R. 10 E

chs

10 ins in ground for 1/4 sec cor
marked S.C. 1/4 S on N face
Build mnd of stones
2 ft base 1 1/2 ft high N of
cor. Pits impracticable.

5-4.20 Foot of precipitous bluff 60 ft high
Offset 1 ch S.
Thence E 6 chs
Thence N 1 ch to line
Difference in measure-
ments of 80 chs by 2 sets
chainmen is 12 lks
Position of middle point
By 1st set 80.06 chs
" 2nd " 79.94 "
The mean of which is

80.00 Rock in place 4 8 x 4 8 x 30 ins
above ground
Mark + at cor point -
S.C. 1 N on N face, 11 E

34 1326 Gila + Salt River Base through R 11 E

BOOK

chs

on E face +10 E on W face
6 grooves on N. E + W faces
for cor to T 1 N. Rs 10 + 11 E.
Build md of stones 2 ft base
1½ ft high N of cor.
Pits impracticable.
Soil 3rd rate rocky
Scattering mesquite brush.
Land mountainous 80 chs

July 13, 1899

First instrument-p found Zd - 3° 3. 23'

+1

E on S bdy sec 31
over mountainous land
Difference in measurements of 40 chs by 2 sets
of chainmen is 4 lks
Position of middle point-
By 1st set 39.98 chs
" 2nd " 40.02 "

Gila & Salt River Base

through R. 11 E.

chs

the mean of which is

40.00 Make 4 on top rock ledge 10 ft high course of ledge N. 10' E, S 10' W, at cor point; mark S.C. 1/4 S on N side of ledge: Build md of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable. Difference in measurements 80 chs by 2 sets of chainmen is 6 lks. Position of middle point- By 1st set- 80.03 chs " 2nd " 79.97 "

The mean of which is

80.00 Rock in place 48 x 48 x 30 ins above ground- Mark + at cor point. S.C. on N face 3 grooves on E & 1 on W face Build md of stones 2 ft base

Gila & Salt River Base through R 11 E

chs

1 1/2 ft-high h. of cor secs 31 & 32
Pits impracticable.
Soil 3rd rate, rocky
Scattering mesquite brush.
Land mountainous 80 chs

E on S bdy sec 32
Difference in measurements of 40 chs by 2 set chainmen is 6 lks
Position middle point-
By 1st set 39,97 chs
" 2nd " 40,03 "
The mean of which is
40.00 Set rock 24 x 8 ins 18 ins in ground for 1/4 sec cor marked S.C. 1/4 S on N. face
Build md of stones 2 ft-base 1 1/2 ft-high N of cor
Pits impracticable.

Gila & Salt River Base
through R 11 E

chs
66.69 Top of precipitous bluff about 300 ft high bears S 20° W. about 1 mile & N. 25° W about 1½ miles. I try N & S of this point but cannot obtain a base for triangulation on account of the configuration of the country. Set flag at 66.69 chs from & set flag on line in valley E of this point

July 17, 1899

I mark flag point set in valley yesterday morning by setting a rock firmly in ground & cut a + at exact point. I set instrument over this point & sight to flag on bluff & turn angle 90° to N. & lay off 3 chs & mark point by a rock set firmly

Salar + Salt- River Base
Through R 11 E

BOOK

chs

in ground, cut + at exact point. I try N. + S from S end of this base + 3 chs is the longest base that can be obtained where flag on bluff can be seen, from valley below.

I now set instrument at N. end of base + sight to S. end + turn off angle to flag on bluff - 84° 2'. I reverse telescope + repeat angle three times + find 84° 2' correct. The distance from flag on bluff to S end of base is then

Tang 84° 2'
9.367906 X 5 = 47.84 chs

I now set instrument at flag on bluff + find angle 5° 58', repeat 3 times + find angle correct. I also repeat-

Gila and Salt River Base
through R. 11. E

chs

angle at S. end of base and find 90° correct.
From S end of base I run W on S bdy of sec 33 over rough mountainous land through dense mesquite brush.
Difference in measurements of 32.53 chs by 2 sets of chainmen is 6 lks.
Position of middle point
By 1st set 32.50 chs
" 2nd " 32.56 "
The mean of which is
32.53 Impracticable to proceed further
I mark witness cor to secs 32 & 33, 2 chs E of true cor point. A rock in place 48 x 48 x 48 ins above ground. Mark + at cor point + W.C.S.C

40 1328 Gila & Salt River Base
through R 11 E

BOOK

chs

on N. face, 4 grooves on E &
2 on W faces. Build
md of stones 2 ft base 1½ ft
high N or cor, Pitō impracticable.
Soil 4th rate, rocky
Land mountainous 82 chs

From witness cor to secs
32 & 33
E on S bdy sec 33
over mountainous land
through dense mesquite brush
Difference in measurements 38 chs by two sets
chainmen is 4 chs
Position middle point
By first set 38.02 chs
" 2nd " 37.98 "
The mean of which is

Gila + Salt-River Base
through R 11 E

chs

38.00 Set granite rock 20x10x8 ins
10 ins in ground for 1/4 sec
cor. Marked S.C. 1/4 S on N. face
Build mnd of stones 2 ft base
1 1/2 ft high N. of cor.
Pits impracticable.

60.50 Center Kenetic cañon / chs inde
Course S 23° W
Difference in measure-
ments 78 chs by two sets
chainmen is 1 chs
Position middle point
By 1st set 78.05 chs
" 2nd " 77.95 "
The mean of which is

78.00 Set granite rock 16x10x8 ins
10 ins in ground for cor sec 6
33 + 34. Marked S.C. on N face
3 grooves on E + 3 on W faces.
Build mnd of stones 2 ft-

42 Gila & Salt River Base

1326

through R 11 E

BOOK

chs

base 1½ ft-high N of cor.
Pits impracticable
Soil 3rd rate stony
Cover Mesquite brush & Catclaw
Land mountainous 78 chs.

E on S bdy sec 34
Difference in measurements
40 chs by 2 sets chainmen
is 12 lks.
Position in middle of mound
By 1st set 40.06 chs
" 2nd " 3994 "
The mean of which is
40.00 Set granite rock 14x8x7
8 ins in ground for ¼ sec cor.
Marked S.C. ¼ on N face
Build md of stones 2 ft base
1½ ft-high N. of cor
Pits impracticable.

Gila + Salt-River Base
through R 11 E BOOK 1326

chs

Difference in measurements 80 chs by two sets chainmen is 10 lks
Position middle point-
By 1st set 80.03 chs
" 2nd " 79.95 "
the mean of which is

80.00

Set granite rock 16 x 9 x 6 ins 10 ins in ground for cor secs 34 + 35, marked S.C. on N face, 2 grooves on E + 4 on W faces
Build md of stones 2 ft base 1½ ft high N. of cor.
Pits impracticables.
Soil 4th rate rocky
Underbrush scrub oak.
Land mountainous 80 chs

July 18, 1899

44 Gila & Salt River Base
BOOK 1326
through R 11 E

chs

E on S bdy sec 35-
over mountainous land.
Difference in measure-
ments 40 chs is 4 lks
Position middle point-
By 1st set - 39.98 chs
" 2nd " 40.02 "
The mean of which is

40.00 Set granite rock 16 x 8 x 8 ins
10 ins in ground for 1/4 sec cor.
marked S.C. 1/4 S on N face
Build md of stones 2 ft - base
1 1/2 ft - high N of cor.
Pits impracticable.

3.8.50 Bottom Gila cañon
1.50 chs wide course S 10° W
Difference in measure-
ments 80 chs by two
sets of chainmen is
8 lks. Position middle point-

Gila & Salt-River Base
through R 11 E

chs

By 1st set- 79.96 chs
" 2nd " 80.04 "
The mean of which is
80.00 Set granite rock 18 x 8 x 8 in
10 ins in ground for cor sec
33 & 36, marked S.C. on N face
1 grove on E & S on W faces
1 Build Mnd of stones 2 ft-
base 1½ ft-high N of cor
Pits impracticable
Soil 3rd rate, rocky
Scattering brush & cactus
Land mountainous 80 chs

E on S bdy sec 36
on mountainous land.
Difference in measure-
ment 40 chs by 2 sets of
chainmen is 4 lks
Position middle point-

46

Gila + Salt River Base
through R 11 E

chs

By 1st set 39.98 chs
" 2nd " 40.02 "
The mean of which is
40.00 Set granite rock 17 x 8 x 6 ins
10 ins in ground for 1/4 sec cor
marked S.C. 1/4 S on N. face.
Build md of stone 2 ft base
1 1/2 ft high N of cor.
Pits impracticable.
Difference in measurements 80 chs by 2 sets of
chainmen is 10 lks
Position middle point
By 1st set 79.93 chs
" 2nd " 80.03 "
The mean of which is
80.00 Set granite rock 36 x 12 x 8 ins
20 ins in ground for Standard
cor Tp 1 N Rs 11 & 12 E marked
S.C. 1/1 N. on N face, 12 E on

Gila & Salt River Base
Meridian R 12 E

chs

East face of 11 E on W face
6 grooves on N. E & W. faces
Build md of stones 2ft high
1½ high N of cor.
Pits impracticable.
Scattering brush & calc clays
Soil 3rd rate
Land mountainous 80 chs

+++

E. on S bdy Sec 31 R 12 E
One mountainous land
Difference in measurements 40 chs by 2 sets of chainmen is 6 lks
Position middle point
By 1st set 39.97 chs
" 2nd " 40.03 "
The mean of which is
40.00 Quartz rock in place
4 x 4 x 2 ins above ground

Gila & Salt River Base
through Rge 12 E.

chs

I mark + at cor point for
1/4 sec cor, with S.C. 1/4 S on
N. face. Build mnd of stones
2ft-base 1½ft high N. of cor.
Pits impracticable.
Difference in measurements 80 chs by 2 sets of
chainmen is 14 lks
Position middle point
By 1st set 79.93 chs
" 2nd " 80.07 "
The mean of which is
80.00 Quartz rock in place
48 x 48 x 24 ins above ground
Make + at exact cor point
for cor secs 31 + 32. Marked
S.C. on N face, 5 grooves on
E & 1 on W faces
Build mnd of stones 2ft-base
1½ ft-high N of cor. Pits

Gila & Salt River Base
through R 12 E

chs

impracticable
Soil 3rd rate, rocky
Scattering brush, Paloverde
& mesquite
Land mountainous 80 chs
July 19, 1899

E on S bdy sec 32
over mountainous land
Difference in measurements 40 chs by 2 sets of
chainmen is 6 lks
Position middle point -
By 1st set 40.03 chs
" 2nd " 39.97 "
The mean of which is
40.00 Set Porphyry rock 12x10x8 ins
8 ins in ground for 1/4 sec cor
marked S.C. 1/4 S on N. faces
Build md of stones 2ft base
1½ ft high N. of cor

30 Gila & Salt River Base
through R 12 E

BOOK 1326

chs

Pits impracticable

67.30 Center of W. fork Whitford's cañon
130 chs wide at bottom course S.
Difference in measurements 80 chs by 2 sets of
chainmen is 4 lks.
Position middle point
By 1st set 80.02 chs
" 2nd " 79.98 chs
The mean of which is

80.00 Rock in place 24x18x8 ins
above ground. I make set at
at exact corner for cor
secs 32 & 33, mark S.C. on N face
4 grooves on E & 2 on W faces
Build mnd of stones 2 ft base
1½ ft high N of cor
Pits impracticable
Soil 3rd rate, stony
Scattering brush. Mesquite

Cpiles + Salt River Base
through R 12 E

chs

Land mountainous 80 chs

Com S bdy sec 33
mx mountainous land,
Difference in measure
ment 40 chs by two sets
of chainmen = 4 lks
Position middle point -
By 1st set 40,02 chs
" 2nd " 34,98 "
The mean of which is
40.00 Porphyry ledge 18 ins above
ground. Mark + at ext cor
point - for 1/4 sec cor, mark
S.C. 1/4 S on N. side of ledge
Build md of stones 2 ft base
1 1/2 ft high N of cor.
Pits impracticable
Difference in measure-
ment 80 chs by 2 sets of

5-2 Gila or Salt River Base
1326 through R 12 E

BOOK

lks

chainmen is 2 lks
Position middle point-
By 1st set 80.01 chs.
" 2nd " 79.99 "
The mean of which is
80.00 Set granite rock 16 x 10 x 10 ins
10 ins in ground for sec cor.
Cor secs 33 + 34 marked
S.C. on N. face, 3 grooves on E
+ 3 on W faces. Build md
of stones 2 ft base 1½ ft high
N of cor. Pits impracticable.
Soil 3rd rate, rocky
Scattering mesquite brush
Land mountainous 80 chs

E on S bdy sec 34
32.00 N.E. cor of an old stone house
20 lks S. at head of Whitford
cañon, course S 45-0 W

Gila & Salt River Base

through R. 12 E

chs

Differences in measurements 40 chs by 2 sets of chainmen is 10 lks

Position middle point-

By 1st set 40.03 chs

By 2nd " 39.95 "

The mean of which is

40.00 Set granite rock 16 x 8 x 8 ins 10 ins in ground for 1/4 sec. cor. marked S.C. 1/4 S on N. face.

Build md of stones 2 ft base 1 1/2 ft high N. of cor.

Pits impracticable.

Differences in measurements by 2 sets chainmen 80 chs is 10 lks

Position middle point-

By 1st set 80.03 chs

" 2nd " 79.95 "

The mean of which is

80.00 cliff 10 ft high. Make at up-

Gila & Salt River Base through R. 12 E

chs

act cor point for cor secs 34 & 35 mark S.C. on N & 2 grooves on E & 4 on W faces. Build md of stones 2 ft base 1½ ft high N. of cor. Pits impracticable. Soil 4th rate, rocky Dense brush of scrub oak. Land mountainous 80 chs

July 24, 1899

E on S bdy sec 35 Difference in measurements 40 chs by 2 sets of chainmen is 10 lks Position middle ground

By 1st set 3993 chs
" 2nd " 4003 "

The mean of which is

40.00 Granite rock in place 48 x 36 x 24 ins above ground. Make a

Gila & Salt River Base

through R. 12 E

chs

at exact cor point for 1/4 sec cor, mark S.C. 1/4 S on N. face, Build mnd of stones 2ft base 1½ft high N of cor. Pits impracticable.

Difference in measurements 80 chs by 2 subs of chainmen is 8 lks.

Position middle point

By 1st set 79.96 chs

" 2nd " 80.04 "

The mean of which is

80.00 Rock in place 24x24x18 ins above ground. Mark & at exact cor point for cor secs 35 & 36. Mark S.C. on N. face, 1 groove on E & 5 on W faces. Build mnd of stones 2ft base 1½ft high N of cor. Pits impracticable

5-6 Gila & Salt River Base
BOOK 1326 through R. 12. E.

chs

Soil 4th rate & rocky
Dense brush of scrub oak
Land mountainous 80 chs.
Spring in Haunted canon
13-chs S of this cor

E. on S. bdy sec 36
over mountainous land.
Difference in measure-
ments 40 chs by 2 sets
chainmen is 6 lks
Position middle point-
By 1st set- 40.03 chs
" 2nd " 39.97 "
The mean of which is
40.00 Set granite rock 14x10x8 ins
8 ins in ground for 1/4 sec cor
marked S.C. 1/4 S on N face
Build md of stones 2 ft
base 1½ ft high N. of cor.

Gilen + Salt River Base
through R 12 E

chs

Pits impracticable
Difference in measurements 80 chs by 2 sets of chaining is 16 lks
Position middle point-
By 1st set 80.08 chs
" 2nd " 79.92 "
the mean of which is
80.00 Rock ledge 3 ft high. Mark + at exact cor point- Standard for cor of Ts 1 N. Rs 12 + 13 E marked S.C. 1 N. on N side, 13 E on E. 12 E on W. + 4 grooves on N. E. + W faces.
Build mnd of stones 2 ft base 1½ ft high N. of cor.
Pits impracticable.
Soil 4th rate rocky
Dense brush + scrub oak
Land mountainous 80 chs

5-8 1326 Gila & Salt River Base
BOOK through R 13 E

chs

note
I observe Polaris at Eastern
elongation at my camp at the
head of haunted cañon
July 22, find adjustment
satisfactory.

E on S. bdy Sec 31 R 13 E
over mountainous land
34.00 Bottom of Haunted cañon
Course N. 88° E. 60 chs. Then N.
Difference in measure-
ments 40 chs by 2 sets of
chainmen is 8 chs.
Position middle point-
By 1st set 39.96 chs
" 2nd " 40.04 "
The mean of which is
40.00 Set granite rock 14 X 14 X 10 ins
5 ins in ground for 1/4 sec
cor marked S.C. 1/4 S on N. face

Gila & Salt River Base
through R 13 E

chs

Build md of stones 2 ft base
1½ ft high N. of cor.
Pits impracticable.

62.00 Bottom of deep cañon, course N.
width Difference in measure-
ments 80 chs by 2 sets of
chainmen & chs
Position middle point
By 1st set 79.96 chs
" 2nd " 80.04 "
The mean of which is

80.00 Set granite rock 16 x 8 x 6 ins
10 ins in ground for cor sec
31 & 32. Marked S.C. on N. face
3 grooves on E. & 1 on W faces.
Build md of stones 2 ft
base 1½ ft high N. of cor.
Pits impracticable:
Soil 3rd rate.
Dense brush of scrub oak

60

BOOK 1326

Gila & Salt River Base
through R 13 E

chs

& fine cedar.
Land mountainous 80 chs.
July 22nd 1899.

E on S bdy sec 32.
Over mountainous land
20.00 Top high mountain bears N & S.
Difference in measurements 40 chs by 2 sets of
chainmen is 4 lks
Position of middle point
By 1st set 39.98 chs
By 2nd set 40.02 "
the mean of which is
40.00 Set granite rock 13"x12"x4" ins
10 ins in ground for 1/4 sec cor
marked S.C. 1/4 S on N. face.
Build md of stones 2 ft
base 1½ ft high N. of cor
Pits impracticable.
41.00 Bottom deep cañon 20 lks wide