

1827-

# FIELD NOTES

OF THE SURVEY OF THE

BOOK 1827

South Boundary  
Tp 18 S., R 19 E

1827-

1827

Of the Great Salt River Meridian,

AS SURVEYED BY

John A. Rockefeller United States Deputy Surveyor,  
Under his Contract No. 118, dated June 11<sup>th</sup>, 1891

Survey commenced July 26, 1891

Survey completed Aug 5, 1891

NAMES AND DUTIES OF ASSISTANTS.

C. E. Buchner & Grant Merrill. Chairman  
Joe. Sabin & James Jones  
Alexander & Moundmen  
F. E. Blackledge & George Fetter  
Flagman

BOOK 1827  
INDEX DIAGRAM.

Township 18 S, Range 19 E

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
2	3	4	4+5	5	6

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, C. E. Buchner and Grant Merrill  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances 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 South Boundary Tp 18 S R 19 E

C. E. Buchner, Chainman.  
Grant Merrill, Chainman.

Subscribed and sworn to before me this 26  
day of July, 1891904



John A. Rockquemore  
Notary Public  
MY COMMISSION EXPIRES MARCH 14, 1907.

WE, James Jones and Joe Sabir  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the South Boundary Tp. 18 S. R 19 E

James Jones, Moundman.  
Joe Sabir, Moundman.

Subscribed and sworn to before me this 26  
day of July, 1891904



John A. Rockquemore  
Notary Public  
MY COMMISSION EXPIRES MARCH 14, 1907.

WE, James Jones and Joe Sabir  
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the South Boundary Tp. 18 S R 19 E

James Jones, Axman.  
Joe Sabir, Axman.

Subscribed and sworn to before me this 26<sup>th</sup>  
day of July, 1891904



John A. Rockquemore  
Notary Public  
MY COMMISSION EXPIRES MARCH 14, 1907.

I, George Hunter & F. E. Blackledge, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the South Boundary Tp. 18 S R 19 E.

George Hunter, Flagman.  
F. E. Blackledge.

Subscribed and sworn to before me this 26  
day of July, 1891904



John A. Rockquemore  
Notary Public  
MY COMMISSION EXPIRES MARCH 14, 1907.

Survey begun July 26, 1904 and executed with a Young & Sons Mountain Transit, No. 6855, with a Smith Solar attachment. The horizontal limb is provided with two verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the minutes of the latitude and declination arcs. The instrument was examined and tested on the true meridian at Tombstone on April 26th 1904 and found correct.

During the work the forenoons were generally bright but showers of rain occurred almost every afternoon, and the nights were cloudy, making it impossible to observe Polaris. On Aug. 7, while engaged in survey of subdivisions, the night was clear and a meridian was established by an observation on Polaris, the description of which appears in notes of subdivisions. The meridian obtained by solar agreed with that obtained by Polaris observation.

July 26, 11 A.M., L.M.T. I begin at the cor. of Tps. 18 & 19 S, Rn 19 & 20 E, Lat.  $31^{\circ} 48' 13''$  N, Long.  $110^{\circ} 31' 09''$  W, a stone firmly set, marked and witnessed as described in notes of Surveyor General. At 11 A.M. I set off  $N 31^{\circ} 48\frac{1}{2}'$  on lat. arc and  $N 19^{\circ} 26'$  on declination arc and determine meridian with solar. At 12 M apparent time I set off  $N 19^{\circ} 25\frac{1}{2}'$  on declination arc and observe for latitude with the result above, viz.  $N 31^{\circ} 48\frac{1}{2}'$ . At 1 P.M. I set off  $N 19^{\circ} 25'$  on declination arc, with lat. arc as above and determine meridian which agrees with that obtained by A. M. observation. Running on distant fore and back sights I repeat operation at 2 and 3 P.M. making proper change for declination and all agree. I continue the random line and return on true line, checking by morning observations for meridian, by noon observations for latitude, and P.M.



observations perpendicular when sun is visible:

July 27, 9 A.M. North Lat.  $31^{\circ} 48\frac{1}{2}'$ , North Dec.  $18^{\circ} 14'$  ✓  
 July 28, 2 P.M. North Lat.  $31^{\circ} 48\frac{1}{2}'$ , North Dec.  $18^{\circ} 57'$  ✓  
 July 29, 9 A.M. North Lat.  $31^{\circ} 48\frac{1}{2}'$ , North Dec.  $18^{\circ} 46'$  ✓  
 July 30, 10 A.M. North Lat.  $31^{\circ} 48\frac{1}{2}'$ , North Dec.  $18^{\circ} 31'$  ✓  
 Aug. 1, 8:45 A.M. North Lat.  $31^{\circ} 48\frac{1}{2}'$ , North Dec.  $18^{\circ} 02'$  ✓  
 Aug. 2, 10:30 A.M. North Lat.  $31^{\circ} 48\frac{1}{2}'$ , North Dec.  $17^{\circ} 46'$  ✓  
 Aug. 3, 9:30 A.M. North Lat.  $31^{\circ} 48\frac{1}{2}'$ , North Dec.  $17^{\circ} 31'$  ✓  
 Aug. 4, 10 A.M. North Lat.  $31^{\circ} 48\frac{1}{2}'$ , North Dec.  $17^{\circ} 15'$  ✓  
 Aug. 5, 8 A.M. North Lat.  $31^{\circ} 48\frac{1}{2}'$ , North Dec.  $17^{\circ} 00\frac{1}{2}'$  ✓

whence Va. 18 E. < From cor. Tps. 18-19 S. Rs. 19-20 E >

1) Miller Peak, Hinchuce Mts. bears  $S 6^{\circ} 34' E$ , about 35 miles.

2) "Boon Shaft," Tombstone bears  $S 64^{\circ} 55' E$  about 24 miles.

Thence I run West on random line, setting temporary  $\frac{1}{2}$  and sec. corners at intervals of 40 chas for a distance of  $5\frac{1}{2}$  miles. At 470.55 chas., cor. of Tps 18 & 19 S, R. 18 & 19 E Mt bears S, 81 lbs. Hence true course of S bdy. Tp 18 S, R 19 E is  $S 89^{\circ} 54' W$ . The Tp. cor. is a stone in a mound of stone, marked and witnessed as described by the Surveyor General.

Thence I run  $N 89^{\circ} 54' E$  on true line between secs. 6 & 31 over rough mountains. Ascend along W slope of a wooded

Chaining and brushy ridge;

31.50 Summit of ridge <sup>W.E. + S.W.</sup> summit of ridge, ascend S slope.

39.55 pt. for  $\frac{1}{2}$  sec. <sup>Cor.</sup> fall upon limestone bed rock, the face of a bluff, course S.E. & N.W., sloping S.W. Chisel a cross (X) and  $\frac{1}{2}$  on Mt., raise a mound of stone 3 ft high,  $2\frac{1}{2}$  ft high. North of cor.: pits impracticable.

41.00 Center of deep gulch 25 lbs wide, course S.W. Ascend steep wooded slope and thence across ridges and gulches, course S.W.

79.55 Set a limestone 15 X 8 X 5 ins. 10 ins in ground for cor. of secs. 5, 6, 31 & 32, marked with 5 notches on E end 1

OPERATIONS FORMATION WHEN AND IS VISIBLE:

- 1927 11, 9 A.M. North Lat. 31 48 1/2, North Dec. 19 11 1/2
- 1927 12, 3 P.M. North Lat. 31 48 1/2, North Dec. 19 11 1/2
- 1927 13, 9 A.M. North Lat. 31 48 1/2, North Dec. 19 11 1/2
- 1927 14, 10 A.M. North Lat. 31 48 1/2, North Dec. 19 11 1/2
- 1927 15, 11 A.M. North Lat. 31 48 1/2, North Dec. 19 11 1/2
- 1927 16, 10:30 A.M. North Lat. 31 48 1/2, North Dec. 19 11 1/2
- 1927 17, 9:30 A.M. North Lat. 31 48 1/2, North Dec. 19 11 1/2
- 1927 18, 10 A.M. North Lat. 31 48 1/2, North Dec. 19 11 1/2
- 1927 19, 8 A.M. North Lat. 31 48 1/2, North Dec. 19 11 1/2

Station No. 12 B.

(1) 11:00 P.M. Hazeless. The stars 2 ... about 40 miles.

(2) 11:00 P.M. Hazeless. The stars 2 ... about 34 miles.

Station 7 the west of ... line, setting temporarily ...

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Station 7 the west of ... line, setting temporarily ...

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## Chains

notch on W edges, raise a mound of stone  $3\frac{1}{2}$  ft base, 2 ft high W of cor.; pits impracticable; wa.  $15^{\circ} 05' E$ ; no bearings available.

Lead mountainous 70.55 chn. Soil 3rd & 4th rate; scattering oak and piñon trees; much underbrush on the W slopes.

N  $89^{\circ} 54' E$  between sec. 5 A32; ascend a S slope;

14.50 Gulch <sup>aka</sup> 15 chn. wide, course S.W; ascend steep West slope of main divide of Whetstone Mtn. 35 degree slope.

36.70 Summit of main divide N.W. & S.E., at Whetstone Peak.

Whence U.S.G.S. Monument 8 ft high bears N  $9^{\circ} 30' W$  1.80 chains; descend rapidly.

40.00 Set a limestone  $18 \times 9 \times 4$  ins, 12 ins in ground for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{2}$  on N face; raise a mound of stone 3 ft base,  $3\frac{1}{2}$  ft high N of cor; pits impracticable; whence,

1) An oak 15 ins in diameter, blazed and marked  $\frac{1}{2}$  S 32 S T bears N  $15^{\circ} 45' E$ , 6 $\frac{1}{2}$  lks.

2) A juniper tree 24 ins diameter, blazed and scribed  $\frac{1}{2}$  S 5 B T bears S  $51^{\circ} W$ , 33 lks.

Descend mountain 30 to 40 degree slope;

62.00 Descent less abrupt, run along N slope of ridge extending easterly from main divide;

80.00 Set limestone  $18 \times 9 \times 5$  ins, 12 ins in ground for cor sec. 4, 5, 32, & 33, marked with 4 notches on E and 2 notches on W edges, raise a mound of stone  $3\frac{1}{2}$  ft base, 2 ft high W of cor; pits impracticable; whence wa  $15^{\circ} 05' E$

1) A scrub oak 4 ins diameter, blazed and scribed T 10 S 19 S S 32 S T, bears N  $45^{\circ} W$ , 16 lks.

2) A scrub oak 4 ins diameter, blazed and scribed T 10 S R 19 E S 5 B T, bears S  $55^{\circ} W$ , 30 lks; <sup>no other trees within limits</sup> lead mountainous 80 chains, crossing the main peak of the Whetstone range of

CHARGE

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mountains; soil 3rd & 4th rate; scattering oak and juniper trees and a few large pines, much brush.

N 89° 54' E between sees 4 & 23:

descend along N slope of lateral ridge;

33.90 center of deep canyon 30 lks wide, at point between falls in box, course N. E.

40.00 point for  $\frac{1}{2}$  sec cor, on high limestone ridge which bears NW & SE falls upon limestone in place, exposing 16 X 13 X 10 ins chisel a cross (X) and  $\frac{1}{2}$  on the N, raise a mound of stone 3 ft base 3 ft high N of cor, pits impracticable; descend 30 degree slope

52.00 Foot of steep descent, thence along a S slope across a series of gulches and ridges;

80.00 Set a limestone 16 X 13 X 10 ins, 11 ins in ground for cor. see 3, 4, 33 & 34, marked 3 notches on E & W edges; raise a mound of stone 3 $\frac{1}{2}$  ft base, 2 $\frac{1}{2}$  ft high W of cor, pits impracticable; land mountainous 80.00 cha; scattering oak and juniper trees; soil 3rd and 4th rate; whence via 13° 05' E

1) A juniper 10 ins diameter, blazed and scribed T 19 S R 19 E S 4 E T bears S 57° 15' W, 1.38 cha.

2) An iron-wood 7 ins diameter, blazed and scribed T 19 S R 19 E S 3 E T bears S 52° 45' E, 55 lks.

*no other trees within limits.*

N 89° 54' E between sees 3 & 34

14.85 Deep canyon 20 lks wide, course South, N fork of "French Joe's Canyon", contains bedrock tanks and water; ascend slope of another N & S ridge parallel to main divide;

40.00 Point for  $\frac{1}{2}$  sec cor falls upon quartzite rock in place, exposing 30 X 20 X 8 ins; chisel a cross (X) and  $\frac{1}{2}$  on the N; raise a mound of stone 3 $\frac{1}{2}$  ft base, 2 $\frac{1}{2}$  ft high N of corner whence: 1) A juniper tree 14 ins diameter, blazed and

mountain; with 374 & 4th level; north-south and

level and a low level; north-south

W 38 2 2 between 2 2 2 2

direction along W slope of lateral ridge;

1000 feet of level above 30 feet; at level of 1000 feet

W 38 2 2

1000 feet for 1/2 mile; on high limestone ridge with

22 feet upon limestone in place extending to 1 1/2 miles

east a cross (X) and 1/2 mile on the W, with a mound of stone

2 1/2 miles E of W of 1/2 mile; with limestone; level

20 feet above

1000 feet of level above; level along a 2 mile course

direction of ridge and level;

1000 feet a limestone to 1 1/2 miles E of 1000 feet

level; 1/2 mile E of 1000 feet; level of 1000 feet

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W 38 2 2 between 2 2 2 2

1000 feet of level above 30 feet; north-south; level of 1000 feet

level; level of 1000 feet; level of 1000 feet

level of another W 2 2 ridge parallel to 1000 feet

1000 feet for 1/2 mile; on high limestone ridge in place

exposing 30 x 30 x 8 feet; level of 1000 feet; level of 1000 feet

level; level of 1000 feet; level of 1000 feet

level; level of 1000 feet; level of 1000 feet

scribed  $\frac{1}{2}$  S 34 B T bears N  $13^{\circ} 25'$  E, 71 lks

2) an oak 10 ins diameter, blazed and scribed  $\frac{1}{2}$  S 3 B T bears S  $55^{\circ} 30'$  W, 60 lks.

56.35 Summit of ridge bears S S W & N N E, edge of bluff 100 ft high, descend and cross very rough ground

80.00 set a quartzite rock 16 X 14 X 12 ins, 11 ins in ground for corner sees 2, 3, 34 & 35, marked with 2 notches on East 4 notches on W edges; raise a mound of stone 3 ft base, 2 ft high W of cor; thence via  $18^{\circ}$  E; 1) A black oak of 3 stems each 8 ins diameter, blazed and scribed T 19 S R 19 E S 3 B T bears S  $77^{\circ} 35'$  W, 68 lks

2) A white oak 10 ins diameter, blazed and scribed T 19 S R 19 E S 2 B T bears S  $28^{\circ}$  E, 66 lks; land mountainous 80 chs *no other trees within limits* soil 3rd and 4th rate; oak and juniper trees very scattering; some oak brush.

N  $89^{\circ} 54'$  E between sees 2 & 35, descend;

23.45 summit of perpendicular bluff 75 ft high, bears N N W & S SE descend;

40.00 set a quartzite rock 16 X 10 X 6 ins, 8 ins in ground, blazed rock, marked  $\frac{1}{2}$  on N face; raise a mound of stone 3 ft base, 3 ft high N of corner; pits impracticable

45.00 Descent less steep;

72.00 center of wash in canyon 30 lks wide, course E N E;

80.00 point for cor sees 1, 2, 35 & 36 falls upon a quartzite <sup>rock</sup> in place, exposing 20 X 16 X 8 ins; chisel a cross (X) and one notch on E and 5 notches on W; raise a mound of stone 4 ft base, 4 ft high W of corner; pits impracticable.

Thence via  $12^{\circ} 50'$  E 1) A mesquit tree 4 ins diameter, blazed and scribed T 19 S R 19 E S 35 B T bears N  $53^{\circ} 30'$  W, 49 lks

Section 2 of the Act, 1934, is hereby

repealed, and the provisions of the Act

shall continue in force until the

end of the year 1935, and until the

expiration of the term of office of the

Commissioner of the General Land Office

and until the expiration of the term of

office of the Secretary of the Interior

and until the expiration of the term of

office of the Director of the Bureau of

Reclamation.

Section 3 of the Act, 1934, is hereby

repealed, and the provisions of the Act

shall continue in force until the

end of the year 1935, and until the

expiration of the term of office of the

Commissioner of the General Land Office

and

until the expiration of the term of office

of the Secretary of the Interior and

until the expiration of the term of office

of the Director of the Bureau of

Reclamation.

Section 4 of the Act, 1934, is hereby

repealed, and the provisions of the Act

shall continue in force until the

end of the year 1935, and until the

expiration of the term of office of the

Commissioner of the General Land Office

and

3) A mesquit tree, blazed and scribed T 19 S R 19 E S 2 E T  
*no other trees within limits*  
 bears S 78° 15' W 25 lks; land mountainous 30 chs; soil 2nd,  
 3rd and 4th rate; a few scattering oak, juniper and mesquit  
 trees.

N 89° 54' E between Secs 1 & 36, follows down general  
 course of canyon just crossed;

- 8.00 cross same canyon 45 lks wide, course E S E ;  
 9.70 cross same canyon 45 lks wide, course E N E;  
 17.65 cross same canyon 65 lks wide, course N E;  
 27.90 cross same canyon 45 lks wide, course E S E  
 30.00 leave mountainous land for rolling mesa;  
 40.00 set a porphyry rock 14 X 12 X 10 ins, 10 ins in ground for  
 $\frac{1}{2}$  sec cor, marked  $\frac{1}{2}$  on N face; raise a mound of stone 3 ft  
 base, 3 ft high N of corner; pts impracticable. Whence a  
 mesquit tree 5 ins in diameter, blazed and scribed  $\frac{1}{2}$  S 36  
 E T bears N 57° 30' E, 70 lks;  
 50.00 The cor of Tps 18, 19 S, R 19 & 20 E. *as previously described*  
 Land mountainous 30 chs; soil 2nd and 3rd rate, black  
 walnut and mesquit trees along bed of canyon, mesa generally  
 bare.

August 5th.

#### General Description.

This Township is rough and mountainous. Along the eastern and  
 northern borders the country is rolling. The township south  
 (Tp 19 S R 19 E) is very similar in character. There are  
 some oak, juniper and a few pine trees, and in places there  
 is much brush.

Sept. 22 1904

*John H. Rockfellow*  
 U. S. Deputy Surveyor.

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General Description

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U. S. Deputy Surveyor



FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

81  
7

LIST OF NAMES

BOOK 1827

A list of the names of the individuals employed by John A. Rockfellow

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

the South Boundary of Tp 18 S. R 19 E

showing the respective capacities in which they acted:

C. C. Buchner ..... Chainman.

Grant Merrill ..... Chainman.

James Jones ..... Moundman.

Joe Sabin ..... Moundman.

James Jones ..... Arman.

Joe Sabin ..... Arman.

Frank E. Blackledge ..... Flagman.

George Fenter ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John A. Rockfellow

....., United States Deputy Surveyor, in surveying all

those parts or portions of the South Boundary

Tp 18 S R 19 E

..... of the Gila

Talpa meridian, Tu of Arizona, which 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 established, according to the instructions furnished by the United States Surveyor

General for Arizona

C. C. Buchner ..... Chainman.

Grant Merrill ..... Chainman.

Joe Sabin ..... Moundman.

..... Moundman.

James Jones ..... Arman.

Joe Sabin ..... Arman.

F. E. Blackledge ..... Flagman.

George Fenter ..... Flagman

Subscribed and sworn to before me this 6<sup>th</sup>

day of Aug, 1894



John A. Rockfellow  
Mary Public

MY COMMISSION EXPIRES

82  
8  
ECCOK 1827

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John A. Rockefeller United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 11 day of June, 189<sup>1904</sup>, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

South boundary of T 18 S  
R 19 E.

of the G.M.M. meridian, in the T 18 S of Ariz, which 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 said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original 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.

John A. Rockefeller  
United States Deputy Surveyor.

Subscribed by said John A. Rockefeller, and sworn to before me }  
this 22nd day of September, 189<sup>1904</sup>.



Geo. B. Wilcox  
Clerk Dist. Court.  
By Phil Wilcox, Deputy.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A.T., March 16<sup>th</sup> 1905<sup>189</sup>

The foregoing field notes of the survey of the South Boundary of T 18 S,  
R 19 E. of the Gila and Salt River Base and Meridian,  
in the Territory of Arizona

executed by John A. Rockefeller U.S. Deputy Surveyor  
under his contract No. 118, dated June 11<sup>th</sup> 1904, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above described surveys in \_\_\_\_\_  
\_\_\_\_\_ has been correctly copied from the original notes on file in this office.

United States Surveyor General.