4-671

FIELD NOTES

GENERAL LAND OFFICE.

LIST OF NAMES.

A list of the names of the individuals employed by Francis B Jacobs 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 boundary lines of Tps. 24 and 25 N. R. 9 E.

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, showing the respective capacities in which they acted.

Sylvester Loftin, Chainman.
John Crawford, Chainman.
, Chainman.
, Chainman.
Joseph Black, Axman.
John Williams, Axman.
Harry M Havens, Flagman.

1A

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Francis Blacobs United States Deputy Surveyor, in surveying all those parts or portions of the Boundary lines of Tps. 2 N and 2 S R. 9 E.

BOOK 1369

BOOK 1369

of the Gila and Salt River 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 established according to the instructions furnished by the United States Surveyor-General for Arizona.

Sylvester Laflin, Chainman.
John Crawford, Chainman.
, Chainman.
, Chainman.
Joseph Black, Axman.
John Williams, Axman.
Harry M Havens, Flagman.

Subscribed and sworn to before me this 25th day of October, 1902.

Francis Blacobs

[SEAL.] Notary Public.

My commission expires March 2d 1904.

For FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.
(See subs. 223, M.R. 96.)

I,----------, United States Deputy Surveyor, do solemnly swear that in pursuance of a contract received from----------, United States Surveyor-General for Arizona, bearing date of the---------- day of----------, 190---, 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 the----------

---

---

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, 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 said survey have been established and perpetu-

ated in strict accordance with the Manual of Surveying Instructions, the special 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 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.

U. S. Deputy Surveyor.

Subscribed and sworn to before me this ---- day of ----, 190---.

4890b150-8-02

No. 1369

Field Notes

of the Survey of the

East and North Boundaries

of

Township No 25 North, Range No 9 East

of the

Gila and Salt River Base and Meridian

of the

Territory of Arizona

as Surveyed by

Francis B. Jacobs—

U.S. Deputy Surveyor

Under his Contract No 96

Dated June 30th 1902

Survey Commenced October 23rd 1902

Survey Completed October 27th 1902

Names and duties of Assistants –

Sylvester Laflin Chainman

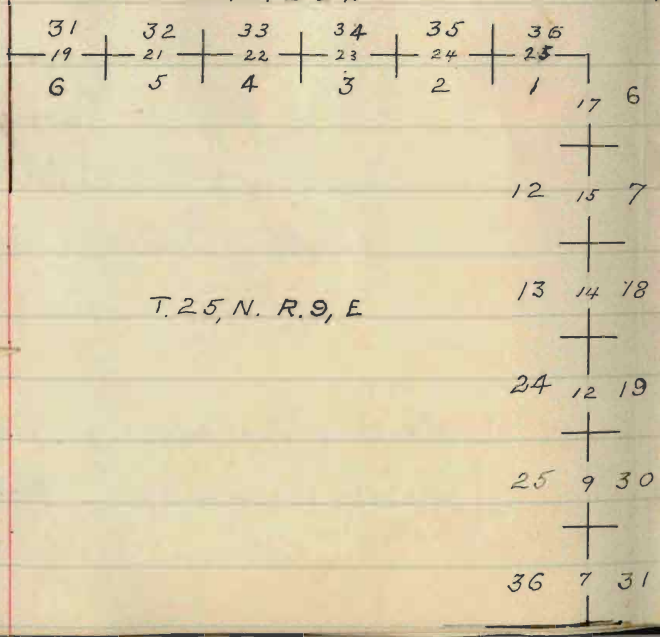
John Crawford Chainman

Joseph Black Axeman

John Williams Axeman

Harry W. Havens Flagman

INDEX



T. 25, N. R. 9, E

For preliminary each see East Bdy. of T 24 N R. 9 E.

Index

East Bdry T 25 N, R. 9 E, — 4
North " T 25 N. R 9 E. — 19

East Boundary of

Chains

Survey commenced October 23rd 1902 and executed with a Gurley "light mountain transit No. with Burt's 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 the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Tucson, found correct, and was approved by the Surveyor General for Arizona January 7th 1902.

I examine the adjustments of the transit, and correct the errors of the level and collimation; then to test the Solar apparatus by comparing its indications, resulting from

T. 25 N. R. 9 E.

Chains

solar observations made during the a. m. and p. m. hours, with a true meridian made by observations on Polaris I proceed as follows:

October 23rd 1902: At the standard Cor. ner of Tps 25 N. Rs 9 and 10 E. latitude 35° 28' 04" N., longitude 111° 21' 06" W. at 4h 0m p.m. l. m. t. I set off 35° 28' on the lat: arc; 11° 19' S on the declination arc, determine with the solar a true meridian; and mark the point thereof on a stone set firmly in the ground 5.00 chains N. of the corner.

At 5h 22m p.m. by my watch, which is correct l. m. t. I observe Polaris at eastern elongation, in accordance with the manual of Instructions, and mark a point on the line thus determined on a plug driven in the ground, 5.00 chns. N. of my station

October 23rd 1902

East Boundary of

Chains

October 24th 1902: At 7h 10m a.m. l.m.t., I lay off the azimuth of Polaris 1°29' to the west and mark the true meridian thus determined by cutting a small groove in the stone set October 23rd on which the true meridian falls 0.38 ins. east of the mark determined by the solar.

At. 8h 0m a.m. l.m.t. I set off 35° 28' N. on the latitude arc; 11° 33' S on the declination arc; and mark a point in the true meridian, determined with the solar, by a cross on the stone already set 5.00 Chs. N. of my station; this mark falls 0.48 East of the true meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for the true meridian respectively about 0'20" west and 0'25" east of the true meridian es-

T. N. 5. N. R. 9, E.

Chains tablished by the Polaris observations; therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h 0m a.m. is N. 14° 50' W. the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 14° 47' E.

I begin at the standard corner of Tps. 25 N. Rs. 9 and 10 East. which is a Malpais Stone 12 x 12 x 12 ins above ground, firmly set, and properly marked and witnessed

Thence I run -

East Boundary of

Chains	
	North bet. Secs. 31 and 36
	Over rolling land through dense Cedars
40.00	Set Malpais Stone 16×8×4 ins 11 ins in
	the ground for 1/4 Sec. cor. marked
	1/4 on W face from which
	A Cedar 7 ins in diam bears
	N. 24° E 90 lks dist marked 1/4 S. 31 B.T.
	A Cedar 8 ins in diam bears
	N. 59½° W 93 lks dist marked 1/4 S. 36 B.T.
80.00	Set Malpais Stone 18×12×8 ins 12 ins in
	the ground for cor of Secs 25. 30. 31 and 36
	marked with 1 notch on S and 5 notches
	on N. ~~face~~ edges; from which
	A Cedar 6 ins in diam bears
	N. 8¼° E 60 lks dist. marked
	T. 25. N, R. 10. E, S 30 B T
	A Cedar 12 ins in diam bears
	S 66¾ E 77 lks dist marked
	T 25 N R 10 E S 31 B T

T. 25, N. R. 9. E.

Chains

A Cedar 8 ins in diam bears
S 38½ W 74 lks dist, marked
T 25 N. R. 9 E. S 36 B T
A Cedar 7 ins in diam bears
N. 33° W. 203 lks dist, marked
T 25 N R 9 E S 25 B T
Land nearly level
Soil 4th rate
Timber - Cedar
Dense Undergrowth 80.00 Chains

North bet Secs 25 and 30
over rolling land through dense Cedars
35.00 Descend gently
38.20 Descend rocky bluff
39.65 Precipice 50 ft - fall bears N.E. and S.W.
Descend to bottom of gulch and
40.00 Set Malpais Stone 30x18x10 ins 23 ins
in the ground for ¼ Sec. cor. marked

East Boundary of

Chains	
	¼ on W face; and raised a mound of stone 2 ft. base 1½ ft. high W of cor. Pits impracticable Ascend cliff 100 ft. high
59.50	Ridge bears N. E and S. W.; descend. Well beaten trail bears E and W to Heiser's Well about 2½ miles
71.15	Bottom and dim road bears N. 65° E and S 65° W
74.38	Tops of Red Bluff bears N. 60 E and S 60° W
80.00	Set Red Sandstone 20×8×10 ins 5 ins in the ground to bed rock for cor- of Secs 19, 24, 25, and 30 marked with 2 notches on S and 4 notches on W. edges; and raised a mound of stone 2 ft base and 1½ ft. high W of cor. Pits im- practicable; from which A Cedar 6 ins in diam. bears N. 35¾° E 252 lks dist marked T 25 N. R 10 E S 19 B T

T. 25 N. R. 9 E.

Chains

R. Cedar 10 ins in diam bears
S 82° E 36 4/10 lks dist. marked
T 25 N R 10 E S 30 B T
A Cedar 8 ins in diam bears
N 39° W 17 6/10 lks dist. marked
T 25 N R 9 E S 24 B T
From this corner extensive stone
ruins bear S 85° E 15 chns dist
and S 44° E 30 chns dist.
Land Mountainous
Soil 4th rate
Timber Scrub Cedar
Mountainous land and dense
undergrowth 80.00 Chains

East Boundary of

Chains	
	North bet. Secs 19 and 24
	Over very broken land
5.50	Descend over huge red sandstones
11.00	Bottom
18.00	Ascend
23.00	Top of E. end of Flat Butte. Descend
31.40	Top of rock bluff 25 ft. high fall into Cañon Course N.E.
33.00	Ascend
35.00	Top of N. Bank of Cañon
36.00	Ascend steep rocky hill
39.30	Top
40.00	Set red limestone 24×12×8 ins to Bedrock for 1/4 sec. cor. marked 1/4 on W. face; and raised a mound of stone 2 ft. base and 1½ ft. high W. of cor. Pits impracticable.
41.00	Descend
50.00	Bottom
80.00	Set Malpais Stone 16×8×5 ins 11 ins

T. 25, N. R. 9, E.

Chains in the ground for cor. of secs. 13, 18, 19 and 24 marked with 3 notches on S and N. ~~faces~~ edges; and dug pits 18x18x12 ins in each Sec. 5½ ft. dist. and raised a mound of earth 4 ft. base and 2 ft. high W. of cor.; from which
A Cedar 14 ins in diam. bears
S. 83¼° W 469 lks dist marked
T25NR9E S24 BT
Land Mountainous, broken and rough
Soil 4th rate
No timber
Mountainous land 80.00 Chns.

October 24th 1902

East Boundary of

Chains	
	North bet. Secs. 13 and 18
22.00	Ascend
35.00	S. W. end of Rocky butte; summit bears N 45° E 9 chains with ruins on top. Descend
37.00	Bottom
40.00	Set Red Sandstone 30×8×8 ins 28 ins in the ground for 1/4 Sec. Cor. marked 1/4 on W. face; dug pits 18×18×12 ins N. and S. of stone 3 ft. dist; and raised a mound of earth 3½ ft. base 1½ ft. high W. of Cor.: ~~[illegible]~~
47.00	Ascend
52.00	Ridge bears N.E. and S.W., Descend
63.30	Wash 25 lks wide Course N.E. ascend
71.00	Ridge bears N E and S W; descend
78.50	Wash 150 lks wide Course N.E.
80.00	Set Malpais Stone 24×10×6 ins 18 ins in the ground for Secs 7, 12, 13 and 18 marked with 4 notches on S and 2 notches on

T. 25, N. R. 9, E.

Chains

N. edges; dug pits 18×18×12 ins in each Sec. 5½ ft. dist; and raised a mound of earth 4 ft. base 2 ft. high N. of Cor.

From this corner Stone ruins on a Knoll, bears N. 14° W. 9 chns dist.

Land Mountainous and broken

Soil 4th rate

No timber

Mountainous land 80.00 chns

North bet. Secs. 7 and 12

over very broken land, ascend

8.00 Ridge bears N. 60 E. and S. 60 W.

Descend

14.00 Bottom

16.50 Ascend

21.00 descend

28.00 Wash 1 chn wide Course N. 45° E

East Boundary of

29. Chains	ascend steep hill
32.00	Ridge bears E and W. ascends both ways; descend
37.00	Wash course E.
39.00	Leave Wash
40.00	Set red sandstone 18x10x5 ins 12 ins in the ground for 1/4 Sec. cor. marked 1/4 on W. face; dug pits 18x18x12 ins N and S of Stone 3 ft dist.; and raised a mound of Earth 3½ ft base 1½ ft. high W. of cor.
40.20	Wash 20 lks wide Course N. 60° E. ascend
44.50	Top of Flat hill
55.00	Ascend Red bluff bears N.E. and S.W.
63.50	Ridge bears N.E. and S.W.; descend
80.00	Set Sandstone 20x10x3 ins 15 ins in the ground for cor of Secs. 6, 7 and 12 marked with 5 notches on the S and 1 notch on the N. edges; dug pits 18x18x12 ins in each Sec. 5½ ft dist;

T. 25 N. R. 9 E.

Chains	
	and raised a mound of earth 4 ft. base 2 ft. high N. of cor.
	Land broken and mountainous
	Soil 4th rate
	No timber
	Mountainous land 80.00 chns.
	North bet. Secs. 1 and 6
	Over mountainous land
1.40	Ascend steep bank 20 ft. high
1.80	Wash 20 lks wide Course N 30° E
24.50	Ascend Sandstone bluff bears N.E. and S.W.
34.30	Top of bluff 200 ft. high
40.00	Set Sandstone 24×14×6 ins 18 ins in the ground for 1/4 Sec. cor. marked 1/4 on N. face; dug pits 18×18×12 ins N and S of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft base 1 1/2 ft high

East Boundary of

Chains	
	W. of cor.
49.50	descend steep bank
52.50	Bottom of deep gulch course E.
	Ascend over sandstone bluff
56.00	Top
80.00	Set Sandstone 24×12×4 ins 12 ins in the ground to bedrock for cor. of Tps. 25 and 26 N. Rs. 9 and 10 E. marked with 6 notches on each edge; dug pits 24×24×12 ins on each line N, E, and W. 4 ft. and S of stone 8 ft. dist.; and raised a mound of earth 5 ft. base 2½ ft. high S. of cor.
	Land broken and mountainous
	Soil 4th rate
	No timber
	Mountainous land 80.00 Chains

October 25th, 1902

T. 25 N. R. 9 E.

Chains

Thence I run

West on a random line, along the N. bdy of Tp. 25 N. R. 9 E. setting temp. 1/4 Sec. and sec. cors. at intervals of 40.00 Chns; at the 479.~~00~~ 27 chns intersect the west bdy of the Tp 70 lks S of the cor. of Tps. 25 and 26 N. Rs 8 and 9 E.

The falling answers to a correction of 0°05' or 12 lks per mile counting from the N.E. cor. of the Tp.; therefore I run S 89°55' E bet 6 and 31.

Over rolling land

3927
~~3960~~ Set Sandstone 16 x 8 x 4 ins 11 ins in the ground for 1/4 Sec. cor. marked 1/4 on N face; dug pits E and W of stone 3 ft. dist; and raised mound of earth and stone 3½ ft base, 1½ ft high N. of cor.

North Boundary of

Chains

~~79.60~~ Set Limestone 24x18x3 ins 18 ins in
79.27 the ground for cor. of secs. 5, 6, 31 and 32
marked with 5 notches on E and 1
notch on W edges; from which
A Cedar 7 ins in diam bears
N 0½° E 105 lks dist marked
T. 26, N. R. 9, E. S 32 B.T.
A Cedar 6 ins in diam bears
S 9½° E 38 lks dist. marked
T. 25, N. R. 9, E. S 5 B.T.
A Cedar 5 ins in diam bears
S 55½ W 329 lks dist. marked
T 25 N R 9 E S 6 B T
A Cedar 4 ins in diam bears.
N 45¾ W 343 lks dist marked
T 26 N R 9 E S 31 B.T.
Land rolling

T. 25, N. R. 9, E.

Chains | Soil 4th rate No timber
Dense Undergrowth ~~79.60~~ 79.20 Chns.
October 26th 1902

S 89° 55 E bet. secs 5 and 32
Over rolling and broken land
36.00 Top of ridge bears E and N. 60° W.
40.00 Set Malpais stone 20x12x10 ins 15 ins in the ground for 1/4 Sec. cor. marked 1/4 on N. face; dug pits 18x18x12 ins E and W. of cor. 3 ft. dist; and raised a mound of Earth and stone 3 1/2 ft base 1 1/2 ft. high. N. of cor.
42.50 Foot of slope. Ascend along N. slope of ridge
47.00 Top of slope on ridge
80.00 Set Malpais stone 20x12x8 ins 15 ins in the ground for cor. of Secs 4, 5, 32 and 33 marked with 4 notches on E and 2 notches on W. edges; dug

North Boundary of

Chains

pits 18x18x12 ins in each sec 5½ ft. dist; and raised a mound of earth 4ft. base, 2ft. high W. of cor.
Land rolling and broken
Soil 4th rate. No timber.
Dense undergrowth 80.00 chns

S 89°55 E. bet secs 4 and 33
over nearly level land

40.00 Set Malpais stone 16x8x4 ins 11 ins in the ground for ¼ Sec. cor. marked ¼ on N. face; dug pits 18x18x12 ins E and N. of Stone 3 ft dist; and raised a mound of earth 3½ ft base 1½ ft. high N of cor.

80.00 Set Limestone 24x16x5 ins 18 in the ground for cor of secs. 3, 4, 33 and 34 marked with 3 notches on E and Mdgcs; dug pits 18x18x12 ins in each sec

T. 25, N. R. 9, E.

Chains 5½ ft. dist; and raised a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land level and rolling
Soil 4th rate No. timber
Dense undergrowth 80.00 chains

S 89° 55 E bet. secs. 3 and 34
over broken land

40.00 Set Limestone 18 x 14 x 6 ins 12 ins in the ground for ¼ Sec. cor. marked ¼ on N face; dug pits 18 x 18 x 12 ins E and W of stone 3 ft. dist; and raised a mound of earth 3½ ft base 1½ ft. high N of cor.

76.20 Descend bluff 12 ft.

77.45 Descend bluff 15 ft.

80.00 Set Limestone 18 x 10 x 5 ins 12 ins in the ground for cor of secs. 2, 3, 34 and 35 marked with 2 notches on E and 4 notches on W edges; dug pits 18 x 18 x 12

North Boundary of

Chains

ins in each Rec. 5½ ft. dist.; and raised a mound of earth 4ft. base 2ft. high W. of Cor.

Land broken

Soil 4th rate. No timber

Dense undergrowth 80.00 Chns

S. 89° 55' E. bet. secs. 2 and 35

Over rolling land through dense undergrowth.

Ascend

15.00 Top of ascent

40.00 Set Limestone 20 x 12 x 10 ins 15 ins. in the ground for 1/4 Sec. Cor. marked 1/4 on N. face; dug pits 18 x 18 x 12 ins E and W. of stone 3 ft. dist.; and raised a mound of earth 3½ ft base 1½ ft. high N. of cor.

T. 25, N. R. 9, E.

Chains

80.00 Set Limestone 18x10,6 ins 12 ins in the ground for cor. of secs 1, 2, 35 and 36 marked with 1 notch on E and 5 notches on W edges; dug pits 18x18x12 ins in each sec. 5 l. dist.; and raised a mound of earth 4 ft. base 2 ft. high W. of cor.

Land rolling

Soil 4th rate No timber

Brush Undergrowth 80.00 Chains

S 89° 55 E bet secs 1 and 36

over rolling land through dense Undergrowth

Ascend

15.00 Ox mesa

40.00 Set Limestone 24x8x6 ins 18 ins in the ground for 1/4 sec cor marked 1/4 on N face; dug pits 18x18x12 ins E and W of stone 3 ft. dist; and raised a

North Boundary of

Chains

mound of earth 3½ ft base 1½ ft high

N. of cor.

80.00 The cor. of Tps 25 and 26 N.

Rs. 9 and 10 E.

Land rolling

Soil 4th rate. No timber.

Dense undergrowth 80.00 Chains

Oct. 27th 1902

Boundaries of T. 25 N. R. 9 E.

Latitudes, departures and closing errors

Line designated	True Bearing	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
6th S Standard Parallel N.	West	480.00				480.00
W. Boundary T. 25 N. R. 9 E.	North	480.00	480.00			
N. Boundary T. 25 N. R. 9 E.	S. 89° 55' E.	479.~~56~~ 27		0.70	479.~~56~~ 27	
E. Boundary T. 25 N. R. 9 E.	South	480.00		480.00		
Convergency					0.51	
Totals			480.00	480.70	479.78	480.00
				480.00		479.78
Error in Lat. and Dep.				0.70		0.22

T. 25 N. R. 9 E.

This township is rough and mountainous in the Southeast part. rolling in the interior and nearly level in the Northwest.

The township has no water; The central and Southern parts are well timbered with Cedars.

Soil inferior. No inhabitants.

Francis B. Jacobs
U.S. Deputy Surveyor
November 19th 1902

LIST OF NAMES. 28

A list of the names of the individuals employed by

Francis B. Jacobs

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

correction Tps 22-23-24

the survey of the

and 25 N. R 7 E.

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, showing the respective capacities in which they acted.

Otto L. Fritsche, Chainman.

William O Capps, Chainman.

, Chainman.

, Chainman.

C E. Colby, Axman.

, Axman.

Fridus Sparks, Flagman.

29

FINAL OATH OF ASSISTANTS.

BOOK 1369

We hereby certify that we assisted Francis B Jacobs United States Deputy Surveyor, in surveying ~~all those parts or portions of the~~ and Making Corrections of the Exteriors and Subdivisions lines in Tps. 22, 23, 24 and 25 N. R 9 E.

of the Gila and Salt River 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 established according to the instructions furnished by the United States Surveyor-General for Arizona.

Wm. L. Fritcher, Chainman.

Wm O. Capps, Chainman.

....., Chainman.

....., Chainman.

C. C. Colby, Axman.

....., Axman.

Frederic Graves, Flagman.

Subscribed and sworn to before me this 2d day of May, 1903

Francis B Jacobs

[SEAL.] *Notary Public.*

my commission expires Mch. 2d 1904

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

BOOK 1369 30

I, Francis B Jacobs, United States Deputy Surveyor, do solemnly swear that in pursuance of a contract received from Hugh Price, United States Surveyor-General for Arizona, bearing date of the ~~June~~ 30th day of June, 1902, ~~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 the~~ and made the corrections in the original work as required by Examiner W.O. Owen in his letter of January 19th 1903. of Tps. 22-23 24 and 25 N. R 9 E.

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, 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 said survey have been established and perpetu-

ated in strict accordance with the Manual of Surveying Instructions, the special 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 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.

Francis B. Faerber

U. S. Deputy Surveyor.

Subscribed and sworn to before me this 8th day of May, 1903.

E. M. Swanson

Clerk District Court

4890b150-8-02

BOOK 1369

No. 1369 32

APPROVAL.

Office of the

United States Surveyor-General,

Phoenix, Arizona.

August 11, 1903.

he foregoing field notes of the survey
r East & North Boundaries of
T. 25, N., R. 9 E.
of the Gila and Salt River Base and
eridian, in the Territory of Arizona,
xecuted by Francis B. Jacobs
nited States Deputy Surveyor, under his
ontract No. 96, dated June 20 1902,,
aving been critically examined, and the
ecessary corrections and explanations
ade, the said field notes, and the sur-
veys they describe, are hereby approved.

Eugene A. Rice

U. S. Surveyor-General.