

96
MAY 17 1910

Book D

BOOK 2226

FIELD NOTES

Accepted Letter E
Dec. 19, 1911

OF THE SURVEY OF THE

West boundary of
T. 3. S. R. 12. E.

Of the Gila Salt River Base and Meridian,

AS SURVEYED BY

Jacobs & Curry

United States Deputy Surveyors

Under ^{this} Contract No. 148, dated March 20th, 1908

Survey commenced June 26, 1908

Survey completed March 5, 1910

2226

2226

92
1A

NAMES AND DUTIES OF ASSISTANTS.

BOOK 2226

Narry J. Young	Chairman
Jim A. Kellis	"
Norman Oliver	Secretary
Eug Phelps	Chairman

98
1B

BOOK 2226

INDEX DIAGRAM.

Township 3. S., Range 12 E.

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

Meanders Page.....

29
BOOK 2226

PRELIMINARY OATHS OF ASSISTANTS.

WE, Narry S. Young and Jim P. Kellis
do solemnly swear that we will well and faithfully execute the duties of chainmen; 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 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 West boundary of T. 3. S. R. 12. E.

Narry S. Young, Chainman.
Jim P. Kellis, Chainman.

Subscribed and sworn to before me this 20
day of June, 1908

Francis Jacobs
Notary Public



My commission expires September 20, 1911

WE, A Norman Oliver and _____
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 West boundary of T. 3. S. R. 12. E.

A. Norman Oliver, Moundman.
_____, Moundman.

Subscribed and sworn to before me this 20
day of June, 1908

Francis Jacobs
Notary Public



My commission expires September 20, 1911

WE, _____ and _____
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 _____

_____, Axman.
_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



I, _____, 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 _____

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



100
10

BOOK 2226

INDEX DIAGRAM.

Township 30, Range 12E

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Jim a Kellis and Guy Phelps
do solemnly swear that we will well and faithfully execute the duties of chainmen; 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 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 N. Pdy. of J. J. S. R. 12 E

James A. Kellis, Chainman.
Guy Phelps, Chainman.

Subscribed and sworn to before me this 1
day of March, 1900

Francis B. Jacobs



WE, _____ and _____
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

_____, Moundman.
_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190



WE, _____ and _____
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

_____, Axman.
_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 190



I, _____, 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

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190



West Boundary of Township 3 South, Range 12 East.

1.

Survey commenced June 22, 1908, and executed with a Guley light mountain transit, with Burt 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 latitude and declination arc.

I examine the adjustments of the transit, and correct the level and colimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observation on Polaris, I proceed as follows:

At My camp, near the 1/4 Sec. Cor. on the S. Bdy. of Sec. 5, T.2 S., R.12 E.; Latitude $33^{\circ}16'30''$ N.; long. $111^{\circ}9'$ W. I set off $33^{\circ}17'$ N. on the lat. arc; $23^{\circ}26'$ N. on the decl. arc; and at 5h 0m p.m., l.m.t., determine with the solar a true meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.
June 22, 1908.

June 23: At 1h 26m. a.m., I observe Polaris at eastern elongation in accordance with the Manual of instructions and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 6h 40m. a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ}25'$ to the west, and mark the true meridian thus determined, by cutting a small groove in the stone set June 22, on which the meridian falls 0.4 inches east of the mark determined by the solar.

At 7h 0m, a.m., l.m.t., I set off $33^{\circ}17'$ N. on the lat. arc. $23^{\circ}27'$ N. on the decl arc. and mark a point in the meridian determined with the solar, by cutting a small groove in the stone already set 5 chs. N. of my station, this mark falls 0.4 ins. east of the meridian established by Polaris observation.

The solar apparatus, by a.m. and p.m. observations defines positions for meridians, respective about $0' 21''$ west and the same east of the the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic declination is $13^{\circ}25'$ E.

NOTE: Owing to the fact that the cor. of Tps. 3 and 4 S., Rs. 11 and 12 E. is situated in a very rough country, and it having been established many years ago, it would be very difficult to find without retracing the lines of the surveys running to it, therefore I

Commence at the cor. of Tps. 1 and 2 S., Rs. 12 and 13 E. which is a stone 12x8x5 ins., above ground, firmly set, marked and witnessed as described by the Surveyor General. Thence I run

West on a random line, along the N. bdy. of T. 2 S., R. 12 E., setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs., and at 480.00 chs. set a temp. cor. of Tps. 1 and 2 S., Rs. 11 and 12 E..

June 23, and 24, 1908.

June 25: At 7h 12m a.m., l.m.t., I set off $33^{\circ}17'$ N. on the lat arc., $23^{\circ}25'$ N. on the decl arc. and determine a true meridian with the solar, at the above Tp. cor.

and run thence

South on a random line, along the west bdy. of Tps. 2 and 3 S., R. 12 E., setting temp. $1/4$ ac. and sec. cors. at intervals of 40.00 chs. for a distance of 960.00 chs.

June 25, 26, and 27, 1908.

We then hunt two days for the township corner, finding it about 70.00 chs. east of our random line.

June 30; At 8h0m, a.m., l.m.t., I set off $33^{\circ}7'$ N. on the lat. arc; $23^{\circ}12'$ N. on the decl. arc; and determine a true meridian with the solar at the cor. of Tps. 3 and 4 S., Rs. 11 and 12 E., which is a stone firmly set, marked and witnessed, as described by the Surveyor General, thence I run

North bet. secs. 31 and 36.
Over very mountainous land.

Descend.

2.00 Gulch, 10 lks. wide, course S.W.

Ascend.

20.20 Ridge, bears N.E. and S.W.

Descend.

29.60 Gulch, 5 lks. wide, course S.W.

Ascend.

35.00 Ridge, bears N.E. and S.W.

Descend.

40.00 Bottom of ridge,

Set a trachite stone, $20 \times 10 \times 5$ ins., 15 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face; and raise mound of stone 2 ft. base, $1 \frac{1}{2}$ ft. high W. of cor. from which

A Mesquite 4 ins. in diam. bears N. 12° E., 132 lks. dist, marked $1/4$ S. 36 B T

A Mesquite 10 ins. in diam., bears N. 24° W., 120 lks. dist, marked $1/4$ S. 31 B T.

43.50 Gulch, 25 lks. wide, course S.W.

Ascend.

80.00 Set a granite stone, $24 \times 12 \times 10$ ins., 18 ins. in the ground for cor. of secs. 25, 30, 31 and 36; marked with 1 notch on S., and 5 notches on N. edge, and raise mound of stone 3 ft. base, 2 ft. high W. of cor.

Pits impracticable.

Land very mountainous.

Soil rocky, 3d rate.

Timber mesquite and paloverde.

Mountainous land, exceptionally difficult to survey,
80.00 chs.

June 30, 1908.

March 5, 1910: At 8h 0m, a.m., lat., I set off 33° 8' N. on the lat. arc; 6° 12' S. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 25, 30, 31 and 36, and run thence North, between secs. 25 and 30. Over very mountainous land. Ascend. 1.00 Ridge, bears N.E. and S.W. 3.50 Descend. 11.00 Gulch, 10 lks. wide, course S.W. Ascend along W. slope of rocky ridge. 40.00 Set a trachite stone 24x12x10 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. 70.00 Ascend abruptly, S.W. side of South Bell Butte. 80.00 Falls near foot of bluff, 50 ft. high, facing S.W. I chisel a x at the cor. point and 2 grooves S. and 4 grooves N. of the cross, for cor. of secs. 19, 24, 25 and 30, and raise a mound of stone 3 ft. base, 2 ft. high W. of cor. Pits impracticable. Land very mountainous. Soil rocky, 3d rate. Timber, paloverde. Mountainous land exceptionally difficult to survey, 80.00 chs. March 5, 1910.

I then run N. bet. secs. 19 and 24 40.00 Fall on the 1/4 sec. cor. previously established by me. March 5, 1910.

Chains.	<p>July 1: ^{1908: at 8²⁰ a.m. l.m.t.} we set off 33° 9' N on the lat. arc; 23° 8' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 19, 24, 25 and 30, and run thence North, bet. secs. 19 and 24. Over very mountainous land. Ascend over bluffs.</p> <p>17.00 Top of ascent, on W. slope of Bell Butte. Descend very abruptly.</p> <p>40.00 Set a trachite stone 24x15x6 ins., 12 ins. in the ground, to bed rock, surrounded by mound of stone, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor., pits impracticable.</p> <p>44.46 Wire fence, bears E. and W.</p> <p>51.00 Bottom of Bell Canon, 40 lks. wide, course S.W. Smith's ranch is about 20 chs. down canon. Ascend.</p> <p>55.15 Trail, from spring, N.E., to Newberry camp, W.</p> <p>70.00 Spring in Bell Canon, bears E. about 6 chs.</p> <p>76.46 Wire fence, bears E. and W.</p> <p>76.60 Ridge, bears E. and W., 30 lks. E. is a rock bluff 60 ft. high. Descend.</p> <p>80.00 Set a porphyry stone 24x12x10 ins., 18 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on S. and N. edges; and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor., pits impracticable. Land very mountainous. Soil, 3d and 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.00 chs.</p> <hr/> <p>North, bet. secs. 13 and 18. Over very mountainous land. Descend.</p> <p>3.00 Ascend over rocky bluffs.</p> <p>14.75 Top of cliffs, bears E. and S.W.</p> <p>33.00 Top of mountain, on W. slope.</p> <p>34.00 Descend.</p> <p>40.00 A trachite rock in place, 8x30x18 ins. above ground, for 1/4 sec. cor., marked 1/4 on W. face; and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.</p> <p>41.40 Head of gulch, course S. 70° W. Ascend.</p> <p>49.00 Descend over bluffs.</p> <p>54.10 Gulch, 30 lks. wide, course S.W. Ascend Steep mountain.</p> <p>66.00 Top of steep mountain, ascend along E. slope.</p> <p>80.00 Set a porphyry stone 24x18x8 ins., 18 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S., and 2 notches on N. edges, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.</p> <p>Land very mountainous. Soil, mostly rocks, 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.00 chs.</p> <p style="text-align: center;">July 1, 1908.</p> <hr/> <p>July 2: At 7h 20m, a.m., l.m.t., we set off 33° 10' on the lat. arc; 23° 4' N., on the decl. arc, and determine a true line with the solar, at the above cor., and run thence, North, bet. secs. 7 and 12. Over very mountainous land. Ascend along E. slope.</p>
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Chains.	
32.00	High ridge, bears E. and W. Descend over bluffs.
40.00	A rock in place, 5x6x6 ft. above ground, we chisel a cross at cor. point, for 1/4 sec. cor., and mark 1/4 W. of cross, and raise a mound of stone, 3 ft. base 2 ft high, W. of cor., pits impracticable.
42.00	Ascend.
47.00	High dyke, bears E. and W. Descend.
61.20	Solid rock butte, 300 ft. high, perpendicular walls, we offset 2 chs. E., thence 8 chs. N., thence W. 2 chs. to line. Ascend.
73.00	Ridge, bears N.E. and S.W. Descend very steep.
80.00	Set a schist stone, 20x12x5 ins., 15 ins. in the ground, for cor. of secs., 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edge., and raise mound of stone 3 ft. base, 2 ft. high, W. of cor. Land very mountainous. Soil, rocky, 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.00 chs.
	North, bet. secs. 1 and 6. Over very mountainous land. Descend steep ridge.
9.00	Gulch, 10 lks. wide, course W. Ascend.
16.50	Ridge, bears E. and W. Descend.
22.00	Gulch, 10 lks. wide, course S.70° W. Ascend.
26.20	Ridge bears E. and W. Descend.
32.00	Gulch, 15 lks. wide, course S.60° W. Ascend.
36.00	Ridge, bears N.E. and S.W. Descend.
38.30	Gulch, 30 lks. wide, course S.W. Ascend.
40.00	Set a schist stone, 18x10x4 ins., 12 ins. in the ground, for 1/4 cor., marked 1/4 on W. face, and raise a mound of stone, 3 ft. base 2 ft. high, W. of the cor. Pits impracticable.
44.20	Ridge, bears N.E. and S.W. Descend.
48.00	Gulch, 20 lks. wide, course S.60° W. Ascend.
53.60	Ridge, bears N.E. and S.W. Descend.
58.00	Gulch, 25 lks. wide, course, S.W. Ascend.
60.00	Ridge, bears N.E. and S.W. Descend.
62.00	Gulch, 60 lks. wide course S.W. Ascend.
80.00	Set a trachite stone, 18x12x6 ins., 12 ins. in the ground for cor. of Secs. 2 and 3 S., Rs. 11 and 12 E., marked with 6 notches on each edge; and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable. Land very mountainous. Soil rocky, 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.00 chs. July 2, 1908.

General Description.

This line passes over very mountainous country, which seems to be valuable, chiefly for its mineral deposits. The new camp of Newburry, owned by the Newburry Mining Co., is situated, approximately, on the S.W. part of sec. 13, and the N.W. part of sec. 24, T. 3 S., R. 11 E.

There is no water and no timber along this line.

Wickenburg, Arizona, December 16, 1908.

Francis B. Jacobs
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

108
7.

BOOK 2226

LIST OF NAMES.

A list of the names of the individuals employed by Jacobs Leury
....., 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 L. N.

Sdy. of J. B. S. R. M. E.

showing the respective capacities in which they acted:

- Jim A. Kellie....., Chainman.
- Guy Phelps....., Chainman.
-, Moundman.
-, Moundman.
-, Axman.
-, Axman.
-, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jacobs Leury
....., United States Deputy Surveyor, in surveying all
those parts or portions of the N. bdy. of J. B. S. R. M. E.

..... of the Gila and
Salt River Base and meridian, Territory 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

- James A. Kellie....., Chainman.
- Guy Phelps....., Chainman.
-, Moundman.
-, Moundman.
-, Axman.
-, Axman.
-, Flagman.

Subscribed and sworn to before me this 7
day of March, 1960

Francis Jacobs



109 9
BOOK 2226

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Francis B. Jacobs, 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 20 day of March, 1908, 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 West boundary of
J. S. R. 12 E

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

Francis B. Jacobs
United States Deputy Surveyor.

Subscribed by said Francis B. Jacobs, and sworn to before me }
this 17 day of May, 1900

Frank S. Ingalls
U. S. SURVEYOR GENERAL & D. A.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 190

The foregoing field notes of the survey of

executed by
under his contract No., dated, 190, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....
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.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

140
9.

BOOK 2226

LIST OF NAMES.

A list of the names of the individuals employed by

Jacobs & Curry

....., 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 West boundary of T. 3 S., R. 12 E.

showing the respective capacities in which they acted:

Harry S. Young

....., Chainman.

Jim A. Kellie

....., Chainman.

A. Norman Oliver

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

Jacobs & Curry

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

those parts or portions of the

West boundary of T. 3 S., R. 12 E.

..... of the

Gaud S. R. Bush meridian, *Territory* of *Arizona*

....., which are represented in the foregoing field notes as having been surveyed by ~~him~~ ^{them} and under ~~his~~ ^{their} 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

Harry S. Young

....., Chainman.

Jim A. Kellie

....., Chainman.

X *A. Norman Oliver*

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this 10 day of August, 1908



My commission expires September 27, 1911

James Jacobs

Surveyor Public

47 10
BOOK 2226

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Francis B. Jacobs, 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 30th day of March, 1908, 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 West Boundary D. 730 & 128
.....
..... of the G. & S. R. meridian, in the County of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my directions; 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.

United States Deputy Surveyor.

Subscribed by said, and sworn to before me }
this day of, 190



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Roey C. King Nov. 13, 1908

The foregoing field notes of the survey of the West Boundary of D. 730 & 128, G. & S. R. Meridian, Arizona

executed, by Francis B. Jacobs and Daniel J. Curry U.S.S.'s. under ^{his} contract No. 148, dated March 30, 1908, 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.