

2038

West Clifton Townsite  
in the  
N $\frac{1}{2}$  of the S. E.  $\frac{1}{4}$  of Sec. 25.  
T. 4 S; R. 29 E

4-671

Staffed 103

FIELD NOTES

GENERAL LAND OFFICE

2038

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BOOK 2038

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2038

Preliminary Oaths of Assistants.

We, *J. H. Hoback*

and *Joseph Campbell*

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

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

*J. H. Hoback* Chainman.

*Joseph Campbell* Chainman.

Chainman.

Chainman.

Subscribed and sworn before me, this *11th*

day of *November* 189*9*

*A. S. Patterson*

Notary Public.

[SEAL.]

*McCorm Express*  
*March 27, 1901.*

We, J. H. Hoback

Joseph Campbell, Edward S. Stafford

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

X

atman

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

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

J. H. Hoback

Joseph Campbell

Edward S. Stafford

Subscribed and sworn to before me this 11th

day of November 1899

R. S. Garrison

Notary Public.

My Comm. expires Nov 27 1901



Preliminary Oaths of Assistants.

We, *J. H. Hoback*  
 and *Joseph Campbell*  
 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 *West Clifton*

*Town Site in the N $\frac{1}{2}$  of the  
 S.E.  $\frac{1}{4}$  of Section No 25 Tps, No.  
 4 South Range No 29 East*

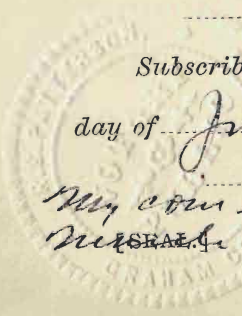
of the Gila and Salt River Base and Meridian in  
 the Territory of Arizona.

*J. H. Hoback* Chainman.  
*Joseph Campbell* Chainman.  
 Chainman.  
 Chainman.

Subscribed and sworn before me, this *24<sup>th</sup>*

day of *June* 189*9*

*R. S. Patterson*  
 Notary Public.  
 My com expires  
*MAR 27, 1901*



We, J. Hoback, Joseph Campbell and Edward S. Stafford do solemnly swear that we will well and truly perform the duties of Chainman and Axman

BOOK 2038

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 West Clifton Town site in the N 1/2 of the S.E. 1/4 of Section No. 25 T. 4 N. 4 South Range No. 19 East

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

J. H. Hoback  
Joseph Campbell  
E. S. Stafford

Subscribed and sworn to before me this 24th

day of June 1899

R. S. Patterson  
Notary Public.

My com expires  
March 27, 1901

Tied Notes  
of the Survey of the  
West Clifton Town Site  
in the N<sup>1</sup>/<sub>2</sub> of the S.E. <sup>1</sup>/<sub>4</sub> of Sec.  
No 25

Township No 4 South Range  
No 29 East

of the  
Principle Base and Gila and  
Salt River meridian of  
Arizona

as surveyed by  
Edward R Stafford  
U.S. Deputy Surveyor

Under his Contract No 50  
Dated April 12 1899

Survey commenced June 27 1899  
Survey completed June 30 1899



## Names and Duties of Assistants

Joseph H. Hoback. Chairman  
 Joseph Campbell. Chairman  
 Edward S. Stafford. Axeman

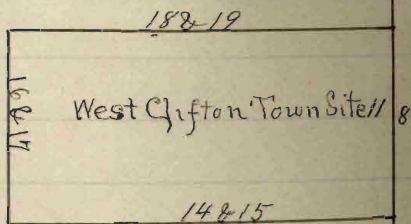
## Index

West Clifton Town Site  
 in the N $\frac{1}{2}$  of the S.E.  $\frac{1}{4}$  of  
 Sec 25 T14S R29E

Cor to Secs  
 19, 24, 25  
 and 30

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Cor to Secs  
 25, 30, 31 and 36

Survey of the West Clifton Town Site

Survey commenced June 27 1899  
and executed with a W. and L. E.  
Gurley light mountain transit No 10  
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 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 October  
12 1898.

I examined the adjustments of  
the transit, and correct the  
level and collimation errors;



Survey of the West Bliton Town Site Continued

then to test the solar apparatus by comparing its indications resulting from solar observation made a. m. and p. m. hours, with a true meridian determined by observation on Polaris, I proceed as follows

June 27. At the cor. to Tps 4 and 5 South Rs 29 and 30 E latitude  $33^{\circ}04'$  longitude  $109^{\circ}21'W$  at  $3^{\text{h}}00^{\text{m}}$  p. m. l. m. t. I set off  $33^{\circ}04'$  on the lat arc,  $23^{\circ}09'$  on the decl. arc, determine with the solar a true meridian; and marked a point thereof on a stone set firmly in the ground 5.00 chs N. of the cor  
 June 27. 1899

June 28. at  $12^{\text{h}}42'$  a. m. by my watch, which is 2. m slow of l. m. t.

Survey of the West Clifton Town Site continued

To observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point on the line thus determined on a plug driven in the ground 5.00 chs. N. of my station.

At 8<sup>h</sup>30<sup>m</sup> a.m. C.M.T. I lay off the azimuth of Polaris 1°28' to the West and mark the true meridian thus determined, by cutting a small groove in the stone set June 27. on which the true meridian falls 0.1 in west of the mark determined by the solar;

At 9<sup>h</sup>00<sup>m</sup> a.m. C.M.T. I set off 33°04' on the lat. arc. 23°17' on the decl. arc. and mark a point in the true meridian determined with the solar by a cross on the stone already set 5.00 chs

Survey of the West Clifton Town Site Continued

n. of my station; this mark falls 0.1 inch west of the true meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, define positions for true meridian respectively about 0.06" east and 0.06" west of the true meridian established by the Polaris observation, therefore, I conclude the adjustments of the instrument are satisfactory:

The magnetic bearing of the true meridian at 9<sup>h</sup>.00 a.m. is  $N. 12^{\circ} 33' W$  the angle thus determined, reduced by the table page 100 gives the mean mag. decl.  $12^{\circ} 30' E$ .



Survey of the West Clifton Town Site Continued

From the Tp cor already described, I run

North on the range line bet, secs 31 and 36. and at 39.98 chs., intersect the 4 sec. cor. a volcanic rock  $5 \times 4 \times 3$  ins above the ground firmly set, and marked and witnessed as described by the survey or general; and at 80.01 chs fall 0.1 lk E. of the cor of secs 25, 30, 31 and 36 the line bears North therefore, the bearing are as stated by the survey or general, and my chaining practically agrees with the field notes of the original Survey

The 4 sec. cor. bet secs 25 and 30 cannot be found it has been destroyed or covered up by the

Survey of the West Clayton Town Site  
construction of a rail road  
grade

I commence at the cor. of secs  
25.30.31 and 36 Tp 4S Rs 29 and 30  
which is a porphyry stone 6x8x12  
ins. above the ground firmly set  
and marked and witnessed as des-  
cribed by the surveyor general  
Thence I run

N. bet secs 25 and 30

Var  $12^{\circ}30'E$

- 9.00 Old road course E. and W  
10.20 High bluff over looking Cañon  
of Chases creek. <sup>Descend</sup> ~~Ascend~~  
20.00 Set a temporary cor  
33.33 Bottom of descent and enter  
canon course E  
36.00 Chases creek 30 lks wide  
38.84 Center of rail road. course

Survey of the West Clifton Town site Continued

E and W.

- 40.00 A pine post 4x4 ins. 2 feet above the ground not marked except it has a tack in the center
- 40.10 Center of rail road 20 ins. gauge course E and west
- 41.00 Center of rail road course E and W
- 41.20 Leave conon ascend rock bluff
- 42.00 Top of bluff course E and W
- 50.25 Ascend steeply
- 55.25 Top of ridge extending E
- 65.00 Ascend
- 70.20 Top of ridge extending S. E.
- 80.00 Intersect cor of sec 19.24.25 and 30. which is a post 4 ins square 3 feet above the ground set in a mound of stone and marked as described by the surveyor general
- Therefore I conclude that the



Survey of the West Blyton Town Site continued

post set at the  $\frac{1}{4}$  sec cor of  
 Sec 25 and 30 is correct, and at  
 which I set a sand stone  $36 \times 26 \times$   
 $18$  ins ~~24~~ ins in the ground and deposit  
 a quart of coke under neath it  
 marked W. C. T. S. N. E. cor. on the  
 W. side for the N. E. cor of  
 the West Blyton Town Site  
 puts impracticable: from which  
 the house of William Blair bears  
 $S 74^{\circ} 00' W$  1.90 chs dist. A sand  
 stone  $6 \times 4 \times 3$  feet above the  
 ground marked B.O. bears  $N 77^{\circ}$   
 $33' E$  2.41 chs dist. the Smelting  
 works of the Arizona Copper  
 Co. bears  $N 80^{\circ} E$  20.00 chs  
 dist Lat.  $33^{\circ} 5' 18'' N$ .

Long.  $109^{\circ} 21' W$   
 June 28 1899

June 29 at  $7^h 30^m$  A.M. I set

Survey of the West Clifton site continued

off  $33^{\circ}05'$  on the lat. arc  $23^{\circ}14'$  on the decl arc; and determine a true meridian with the solar at the  $\#$  cor, bet. secs 25 and 30 which is the N. E. cor of the West Clifton Town Site

Thence I run

South on a true line bet. secs. 25 and 30 along the E. side of the West Clifton Town Site

Arizona and <sup>Var  $30^{\circ}E$</sup>  Reid Mer.

1.16 Rail road course E and W

3.70 Chases Creek  $\#$  30 lks wide course E.

5.38 Center of main street 20 feet wide course E and W

6.70 Ascend steeply and leave canon

20.00 Intersect the temporary cor previously set by me June 28

Survey of the West Clifton Town Site Continued

drilled a 1 inch hole 6 inches deep in the bed rock in which I placed a iron bolt 1x6. ins deposit a quart of coke 6. in under ground and set a granite stone 26x20x18. ins e. ins in the ground. marked W.C.T.S.S.E. cor. for the S.E. cor. of the West Clifton Town-Site raised a mound of stone 3 feet high 4 feet base. above the marked stone. from which a granite stone 2x3x3 feet above the ground marked B.O. bears S 50° 50' E. 57 fks dist. a sand stone 3x4x5 feet above the ground marked B.O. bears N 80° 34' W. 28 fks. dist pits impracticable

6.70 chs are level in canon

13.30 chs Mountainous land

Soil, sandy and rocky 3<sup>d</sup> and 4<sup>th</sup>



## Survey of the West Clifton Town Site continued

rate.

no timber

Thence I run

West on a random line along the  
~~South~~ <sup>South</sup> side of the West Clifton Town  
site

Var 12° 30' E

40.00 Set a temporary cor

Thence I run

North on a random line along  
the west side of the West Clifton Town  
site

Var 12° 30' E

20.00 Set a temporary cor

Thence I run

East on a random line along the  
North side of the West Clifton Town-

Survey of the West Clifton Town site continued  
 site

Var  $12^{\circ}30'E$

40.00 To the N. E. cor of the West Clifton  
 Town site and place of beginning

of

June 29 1899

June 30. At 7<sup>00</sup> a.m. I set off  
 $33^{\circ}05'$  on the Lat. arc.  $23^{\circ}11'$  on the  
 decl. arc. and determine a true mer-  
 idian with the solar at the S.  
 E. cor of the West Clifton Town-  
 site

Thence I run

West on a true line along  
 the S. Edg. of the West Clif-  
 ton Town-Site

3.00 ascend to top of ridge extending  
 N.W.

## Survey of the West Clifton Town Site Continued

- 4.00 Descend
- 8.00 Bottom of Arroyo 50 lbs wide course  
N.
- 9.10 Top of ridge extending N. <sup>Road</sup>
- 21.10 along hill side to old <sup>Road</sup> course NE  
and SW from Clifton to Resoranci
- 40.00 Intersect temporary cor previously  
set. drilled a hole 1x8  
ins and placed a iron bolt 1x8  
ins. therein. deposit a quart  
of coke 8 ins in the ground  
~~set~~ <sup>set</sup> a granite stone 23x18x10  
ins. marked W.C. T.S.S.W. cor  
in a mound of stone 3 feet high  
4 feet base for the S.W. cor  
of the West Clifton Town Site  
from which a malpais stone  
2x3x4 feet above the ground  
marked B.O. bears S 79°40' W  
76 lbs dist. a granite stone



Survey of the West Clifton Town Site continued

1x1½x3 feet above the ground  
Marked B. O. bears N73°30'E

34. lks dist. pits impracticable  
Land mountainous

Soil. stony 4th rate

No timber

Mountainous. 40.00 chs

Thence I run

North on a true line along the  
West bdy. of the West Clifton  
Town Site

Var 12°30'E

descending

4.00 Bottom of arroyo 10 lks wide course N. E.

4.50 ascend

6.00 Top of ridge bears N. E and SW

6.80 Descend over rocky bluff

15.67 Bottom of bluff enter Canon course

## Survey of the West Clifton Town Site Continued

se E.

15.82 Center of main street course E.

and W. 20 feet wide

~~course to~~ South Bank.

16.00 Chases Creek 30 lks wide course E.

16.80 Rail road Bridge over Chases  
creek rail road <sup>29 in gauge</sup>  
~~to~~ <sup>in gauge</sup> track E and W.20.00 Intersect the temporary cor  
previously set. drilled a hole  
1x6 ins set a iron bolt there in 1x6  
ins. deposit a quart of coke 5. ins  
in the ground. set a sand stone  
28x20x16 ins. 5. ins in the ground  
marked W.C. T. <sup>S</sup> N. W. cor. and  
raised a mound of stone 3 feet  
high 4 1/2 base above it. for the  
N. W. cor. of the West Clifton  
Town site. from which a sand  
stone 12. x 4 x 6 feet above the  
ground marked B. O. Cars

## Survey of the West Clifton Town Site Continued

S  $67^{\circ}30'N$  44 lks dist

A granite stone 2 X 3 X 4 feet above  
the ground and at the edge  
of the bluff on the N side of  
the canon marked B.O. bears

N.  $65^{\circ}40'E$  26 lks dist:

Pts impracticable

Land Mountainous and level  
Soil. Stony 4 rate

No timber

Mountainous 15.67 chs

Thence I run

East on a true line along the  
N. bdy of the West Clifton  
Town Site

For  $12^{\circ}30'E$

- .50 Foot of Bluff ascend  
5.00 Top of bluff bears S.E. and N.W.  
6.10 descend and along hill side



Survey of the West Clifton Town Site Continued  
To Smelters

- 17.12 Center of rail road, bears N.E. and  
S.W. 20. in gauge
- 20.00 Board fence of the Arizona  
Copper Co Slaughter house  
yard bears N and S
- 26.12 Board fence of the Arizona Cop-  
per Co. Slaughter house yard  
course N.W. S.E.
- 31.00 Arroyo 50. fms wide course S
- 38.50 Rail road, <sup>3 ft</sup> gauge bears  $N 80^{\circ}00' E$  and  
 $S 80^{\circ}00' W$
- 40.00 Intersect the N.E. cor of the  
West Clifton Town Site and  
the place of beginning  
Land Mountainous and level  
Soil stony 4<sup>th</sup> rate  
No timber  
Mountainous 17.00 chs

June 30 1899

## Survey of the West Clifton Town Site. Continued

Line designated	True bearing	Distance chs	Latitude		Departures	
			N chs	S chs	E chs	W chs
East side	South	20.00		20.00		
South side	West	40.00				40.00
West side	North	20.00	20.00			
North side	East	40.00			40.00	
Totals			20.00	20.00	40.00	40.00

## General Description

The West Clifton Town-Site contains 40 acres, the  $N\frac{1}{2}$  of the S  $E\frac{1}{4}$  Section 25 T4S R29E. About 24 acres are level, extending up and down Chases creek 40.00 chains and has a width of about 6.00 chains. This part of the Town site has been layed out in Blocks and Lots with three streets

Survey of the West Clifton Town Site Concluded

running East and West there is about 50 houses built on each side of the main street the rail road from the mines to the Smelter run through the North side of the Town site and off of the land on the North side of Chases creek is used for the rail road yards. The bluff on each side of the canon are composed of concrete and are very rough. the bottom land is composed of loose rock and earth

E R Stafford  
U.S. Deputy Surveyor



A List of the Names of the Individuals  
employed by Edward R. Stafford  
U. S. Deputy Surveyor, to assist in running, meas-  
uring and marking the lines and corners described  
in the foregoing Field Notes of the survey of the  
West Clifton Townsite in the  
N<sup>1</sup>/<sub>2</sub> of the S.E. <sup>1</sup>/<sub>4</sub> of Section No  
25 T<sup>1</sup>/<sub>2</sub> N 4 South Range  
No 29 East

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

J. H. Hoback Chainman.

Joseph Campbell Chainman.

Edward Chainman.

Chainman.

Edward S. Stafford Axeman.

Axeman.

Flagman.

25  
+26

BOOK

2038

# Final Oath of Assistants.

We hereby certify that we assisted .....

*Edward R. Stafford* U. S. Deputy Surveyor, in  
surveying all those parts or portions of the  
*West Clifton Townsite in*  
*the N 1/2 of the S.E. 1/4 of Sec-*  
*tion No 25 - T. 1 N. 4 South*  
*Range No 29 East*

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.

*J. H. Hoback* ..... Chainman.

..... Chainman.

*Joseph Campbell* ..... Chainman.

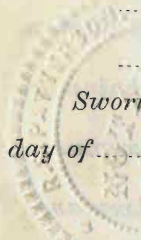
..... Chainman.

*Edward S. Stafford* ..... Axeman.

..... Axeman.

..... Flagman.

Sworn to and subscribed before me, this *11<sup>th</sup>*  
day of *November*, 189*9*.



*R. S. Patterson*  
Notary Public.

[SEAL.]

*My copy fine*  
*March 27, 1901*

## Final Oath of U. S. Deputy Surveyor.

I, .....

*U. S. Deputy Surveyor, do solemnly swear that in pursuance of a contract received from Royal A. Johnson, United States Surveyor-General for Arizona, bearing date of the ..... day of*

*..... 189....., 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 .....*

.....

.....

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.....

*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 surveys have been established and perpetuated in strict accordance with the Manual of printed instructions, the special instructions of the United States Surveyor-General for Arizona, and in the specific*



25  
+ 26 B 74

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.

Sworn to and subscribed before me this 11th

day of November, 1899

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*R. D. Patterson*  
My Commission } Notary Public  
March 27, 1901

BOOK 2038

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## Final Oath of U. S. Deputy Surveyor.

Edward R. Stafford

U. S. Deputy Surveyor, do solemnly swear that in  
 pursuance of a contract received from <sup>George</sup>~~Royal A.~~  
~~Johnson~~ <sup>Christ</sup>, United States Surveyor-General for Ari-  
 zona, bearing date of the 12<sup>th</sup> day of

April 1899, I have well, faith-  
 fully, 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 The N $\frac{1}{2}$  of the S E  $\frac{1}{4}$   
 of Sec 25 T4S R29E

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 surveys  
 have been established and perpetuated in strict  
 accordance with the Manual of printed instructions,  
 the special instructions of the United States Sur-  
 veyor-General for Arizona, and in the specific

30

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.

Edward R. Steffert  
U. S. Deputy Surveyor.

Sworn to and subscribed before me this 18<sup>th</sup>

day of September, 1897.

Francis D. Sport  
Clerk of the District Court





STAFFORD,

County Surveyor....

GRAHAM  
County.

BOOK 2038

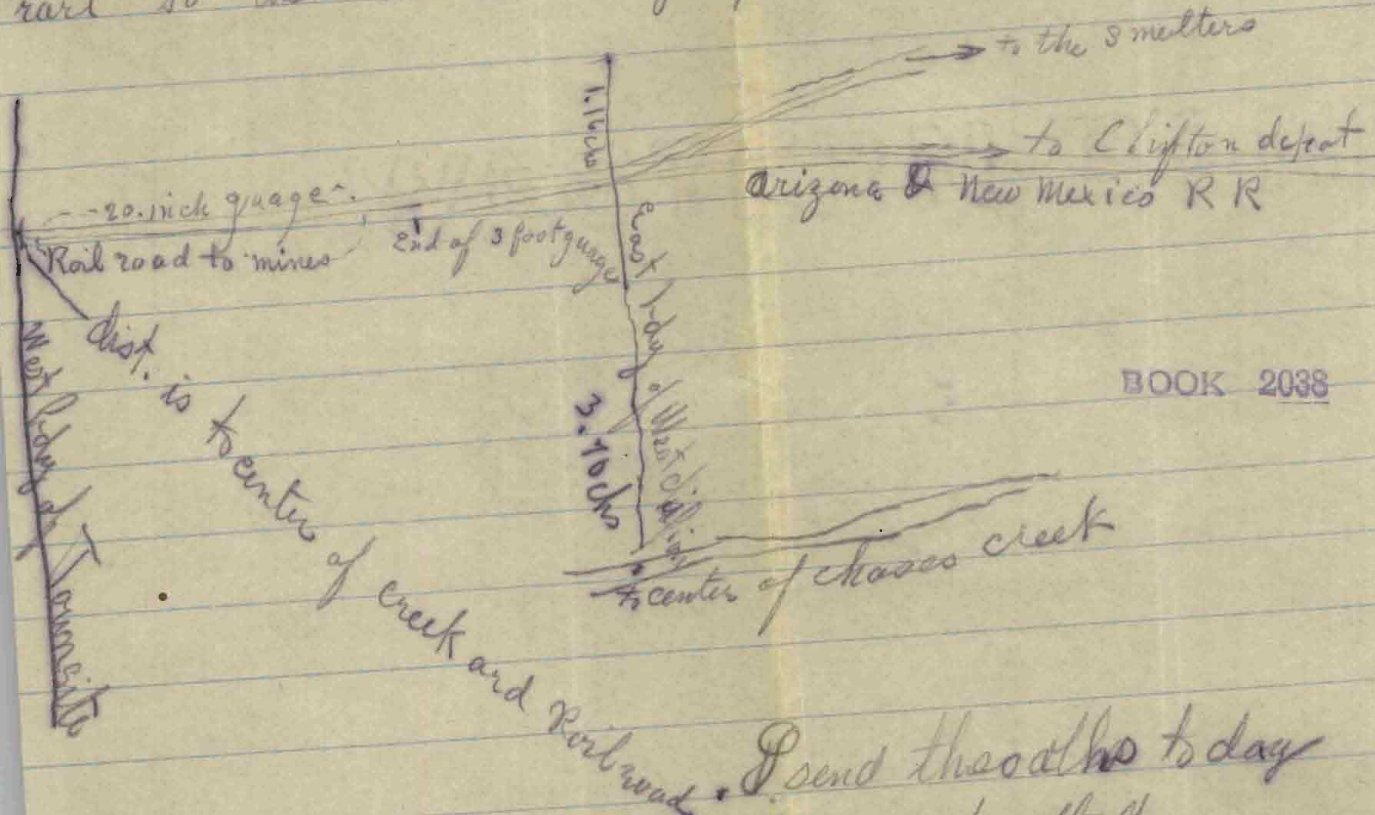
SAFFORD, ARIZONA, Nov 11 1899.

U.S. Surveyor General  
Tucson Arizona

Dear Sir

Your letter received in reply say that the field notes should read as follows

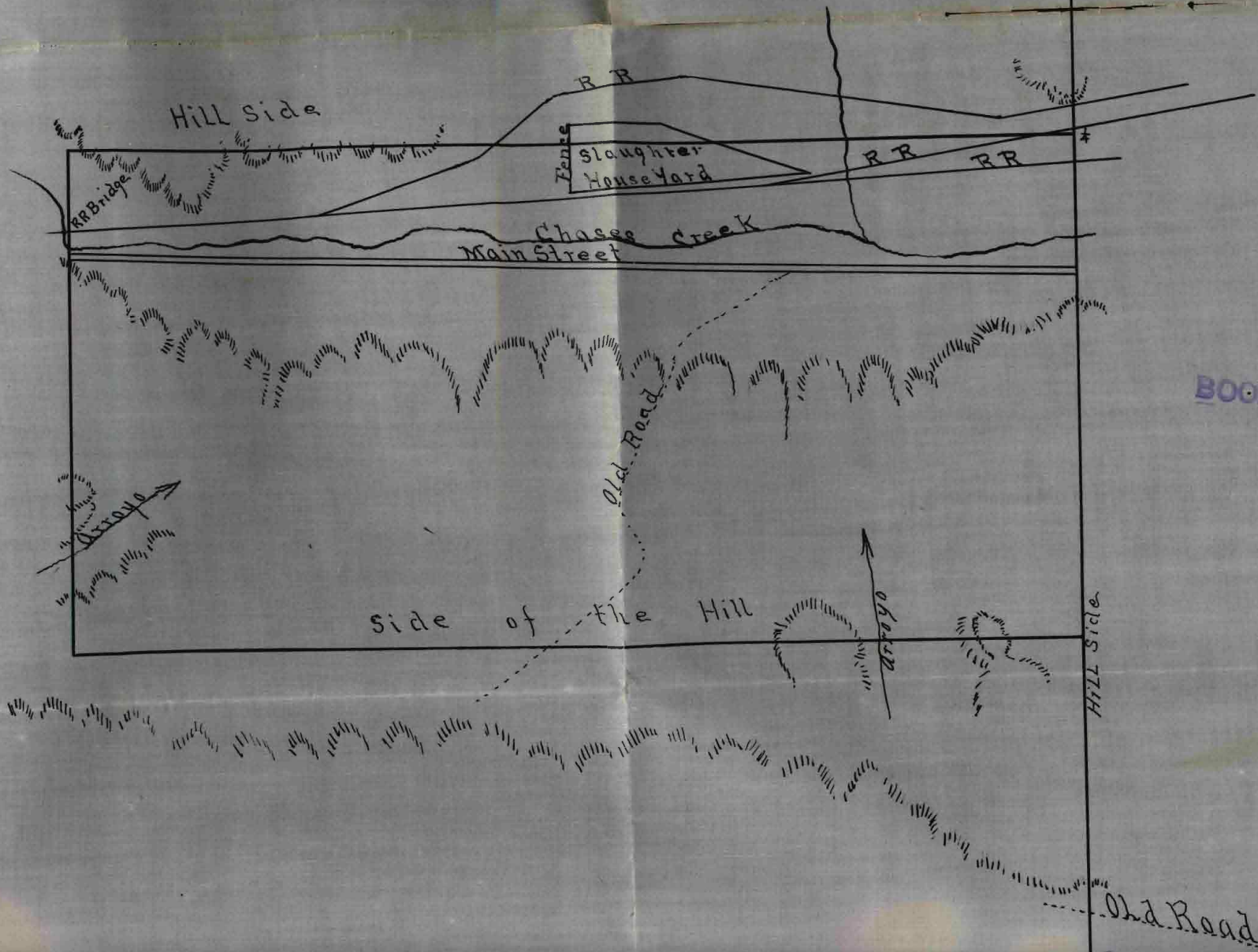
South on East boundary of the West Clifton Townsite  
1.16 chs. Railroad course east and west. 3 foot gauge this is the stem  
of a Y. of the Arizona & New Mexico Railroad it has a center  
rail so that the 20 inch gauge can run over it. it runs thus



BOOK 2038

I send these also to day  
Yours respectfully  
E. Stafford

BOOK 2088  
West Clifton Town Site



BOOK 2088