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F.L.

JUL 21 1910

HOMESTEAD ENTRY SURVEY NO. 55
Arizona Land District.

FIELD NOTES

of

The Survey of the Homestead Entry Claim

of

John William Hickcox

Described as

Phoenix, Arizona, H. E. Co. 02002 List No. 745

Secs. 13 and 18, T. 9 N., Rs. 10 and 11 E.

Tonto National Forest,
Gila County, Arizona

Surveyed under instructions dated May 27, 1910, ~~1909~~
Approved July 23, 1910 by the Commissioner of the G. L. O., letter 10-24539, E J.S.W.
by Howard C. Hopkins
U. S. Mineral Surveyor.

Survey commenced June 3, 1910.

Survey completed June 4, 1910.

Address:

John William Hickcox,
Gisela, Arizona.

RECEIVED FROM [illegible] [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Chains.

HOMESTEAD ENTRY SURVEY NO. 55.

Beginning at Cor.No.1.

Identical with Cor.No.3, H.E.S.No.56, Albert Booth claimant.

On line between Secs.13 and 18, North 7.9 chs. from Cor.Secs. 13,18,19 and 24 T.9 N.,Rs.10 and 11 E.,G.& S.R. Mer. and South 32.1 chs. from 1/4 Cor. between Secs.13 and 18.

A granite stone 8x12x24 ins., set 12 ins. in the ground, chiseled 1 HES 55 CC and 3 HES 56 CC, with mound of stone 2 ft. base, 1 1/2 ft high alongside.

No bearings available.

Thence N. 70° 45' W.

Across valley.

2.30 Irrigating ditch, 7.0 lks. wide, flows southerly.

2.50 Ascend bluff 20 ft. high.

Across mesa.

4.50 Wire fence, course N.26° E.

5.30 To Cor.No.2.

Identical with ~~Cor.No.2 of the preliminary survey and Cor. No.2 H.E.S.No.56, Albert Booth claimant.~~

A diorite stone 4x12x26 ins., set 12 ins. in the ground, chiseled 2 HES 55 and 2 HES 56, with mound of stone 2 ft. base, 1 1/2 ft. high alongside.

~~Cor. No.1 of the preliminary survey bears South 9.64 chs.; Cor.No.16 of the preliminary survey bears S.57° 16' W. 17.83 chs.~~

No bearings available.

Thence N.25° 46' E.

Along edge of mesa.

7.60 To Cor.No.3.

A quartzite stone 5x10x24 ins., set 12 ins. in the ground chiseled 3 HES 55, with mound of stone 2 ft. base, 1 1/2 ft. high alongside.

No bearings available.

Thence N.48° E.

Along edge of mesa.

2.29 To Cor.No.4.

On line between Secs.13 and 18; North 18.04 chs. from Cor.Secs.13,18,19 and 24; South 21.96 chs. from 1/4 Cor. between Secs. 13 and 18.

A diorite stone 6x8x24 ins., set 12 ins. in the ground, chiseled 4 HES 55 on the south face and CC on the north face, with mound of stone 2 ft. base, 1 1/2 ft. high alongside.

~~Cor.No.14 of the preliminary survey bears North 1.96 chs.; Cor.No.15 of the preliminary survey bears N.84° 24' W. 20.10 chs.; Cor.No.13 of the preliminary survey bears North 11.96 chs.~~

No bearings available.

68

(2-H.E.S.55)

chains. Thence N.48°E.

Along edge of mesa.

27.46 To Cor.No.5.

A diorite stone, 4x12x24 ins., set 18 ins. in the ground, chiseled 5 HES 55, with mound of stone 2 ft. base, 1 1/2 ft. high alongside.

~~Cor.No.12 of the preliminary survey bears S.57°02'W. 12.40 chs.; Cor.No.11 of the preliminary survey bears N.65°35'W. 11.43 chs.~~

No bearings available.

Thence S. 36° 49' E.

2.00 Descend bluff 20 ft. high.
Irrigating ditch 7.1 kts. wide, flows southwesterly.
Across valley.

5.00 Bank Tonto Creek, course S.45°W.

12.00 Bank Tonto Creek, course S.45°W., thence across valley.

15.73 To Cor.No.6.

A diorite stone 6x6x24 ins., set 12 ins. in the ground, chiseled 6 HES 55, with mound of stone 2 ft. base, 1 1/2 ft. high alongside.

~~Cor.No.10 of the preliminary survey bears N.32°E. 18.87 chs.; Cor.No.9 of the preliminary survey bears S.68°12'E. 10.77 chs.~~

No bearings available.

Across valley. Thence South.

11.00 Ascend.

~~4.00 Cor.No.8 of the preliminary survey.~~

14.00 To Cor. No.7, identical with corner of the preliminary survey.

A diorite stone, 10x14x24 ins., set 12 ins. in the ground, chiseled 7 HES 55, with mound of stone 2 ft. base, 1 1/2 ft. high alongside.

~~Cor.No. 5 of the preliminary survey bears S.45°W.~~

~~14.13 chs.~~

No bearings available.

~~Cor.No.4 of the preliminary survey bears South 10 chs.~~

3.00 Descend. Thence West.
Edge of valley. Thence across valley.

~~10.00 Cor.No.6 of the preliminary survey.~~

12.50 Bank Tonto Creek, course South, 7.2 chs. wide. Across Tonto Creek.

19.70 Bank Tonto Creek, course S.27°W.

20.00 To Cor. No.8.

A granite stone, 8x10x24 ins., set 12 ins. in the ground, chiseled 8 HES 55, with mound of stone 2 ft. base, 1 1/2 ft. high alongside.

No bearings available.

~~Cor. No. 4 of the preliminary survey bears South 10 chs.~~

Thence South.

0.30 Bank Tonto Creek, course S.27°W. Thence along bed of Tonto Creek.

5.60 To Cor.No.9.

Identical with ~~Cor.No.3 of the preliminary survey and Cor.No.4, H.E.S.No.56, Albert Booth claimant.~~

Not set as it falls in Tonto Creek.

W.C. hereafter described, brs. N.70°43'W. 2.86 chs.

(3-H.E.S.No.55.)

chains.

Thence N.70°45'W.

Across bed of Tonto Creek.

2.59 Bank Tonto Creek, course S.7°W. Thence across valley.

2.79 Wire fence, course N 27°E. S.7°W.

2.86 Witness Cor.No.9.

Identical with the witness Cor.No.4,H.E.S.No.56, Albert Booth claimant.

A granite stone 6x8x24 ins., set 12 ins. in the ground, chiseled WC 9 HES 55 and WC 4 HES 56, with mound of stone 2 ft. base, 1 1/2 ft. high alongside.

A cottonwood tree, 15 ins.dia., blazed and scribed BT WC 4 HES 56 9 HES 55, bears South 0.02 chs.

10.59 To Cor.No.1, the place of beginning.

Magnetic variation at all corners 14°30'E.

Area in Sec.13, T9 N, R.10 E.

2.86 Acres.

Area in Sec.18, T9 N, R.11 E.

58.54

Total Area of claim

61.40 acres.

Location.

This survey is located in Secs.13 and 18, T.9 N., Rs.10 and 11 E., G. & S.R.Mer., Tonto National Forest, Gila County, Arizona, and lies along Tonto Creek.

Improvements:

No.1. A frame house, 15x18 ft., course of long side S.85°E., the northwest corner bears N.84°E. 7.4 chs. from Cor.No.4.

No.2. A frame house, 18x27 ft., course of long side S.85°E., the northwest corner bears S.86°E. 8 chs. from Cor.No.4.

No.3. A barn, 30x38 ft., course of long side S 5°W., the northwest corner bears N.65°E. 7.5 chs. from Cor. No.4.

No.4. A shed, 16x40 ft., course of long side S.85°E., the northwest corner bears N.70°E. 8.2 chs. from Cor.No.4.

No.5. A corral, 80x95 ft., course of long side S.85°E., the northwest corner bears N.60°E. 9 chs. from Cor. No.4.

No.6. A corral, 25x40 ft., course of long side S.5°W., the northwest corner bears N.71°E. 9.50 chs. from Cor. No. 4.

No.7. A wire fence, beginning at the northeast corner of corral No.6; thence S.85°E. 6.50 chs.; thence S.27°W. 17.50 chs. to intersect line 9-1 at 2.79 chs. from Cor.No.9; thence along line 9-1 and 1-2 to a point 4.50 chs. from Cor.No.1.; thence N.26°E. 7 chs.; thence N.57°E. 11.30 chs. to corral No.5.

No.8. A wire fence, the northwest corner bears S.15°W. 5.20 chs. from Cor.No.5; thence S.15°W. 4 chs.; thence N.43°E. 4 chs. thence N.61°W. 2 chs.

This survey is bounded on the west and north by lands in the Entry of John William Hickey excluded from this survey; on the east by lands in the Entry of John William Hickey and unclaimed land; on the south by unclaimed land, land in the Entry of John William Hickey and H.E.S. No. 56, Albert Booth claimant.

(H.E.S.55)

The course of line 9-1 and 1-2 is determined by the fence between this homestead and the homestead of Albert Booth, H.E.S.No.56.

~~The discrepancies between these notes and the survey by the Department of Agriculture are due to errors in the latter.~~

I examined the ground thoroughly and could find no corner monuments or evidence of any corners ever having been built and believe that they were never established by the Department of Agriculture. *This survey lies entirely within the listed tract as protracted from its connection to the public land survey.*

Report.

The Cor. Secs.13,18,19 and 24, is a sandstone marked 3 notches on the northedge and 3 notches on the south edge.

The 1/4 Cor.between Secs. 13 and 18 is a diorite stone chiseled 1/4 on the west face.

This survey was made with a Gurley Light Mountain Transit. The courses were deflected from the true meridian as determined by direct solar observations in the survey of H.E.S.No.56 as follows:-

June 2,1910; 3:30 P.M.Mountain Time; Latitude 34° 09'N. Longitude 111° 17'W. from Greenwich.

Set on Cor. Secs.13,18,19 and 24, sight towards 1/4 Cor. between Secs.13 and 24 and deflect right.

352°26', altitude 52°17'
351°52', " 52°56'

Bisecting the sun with the horizontal and vertical wires. Gives bearing of the Sec. line west by both observations. Magnetic bearing of same line is S.75° 30'W., giving magnetic variation 14° 30'E.

FINAL OATHS FOR SURVEYS.

---oOo---

LIST OF NAMES.

A list of the names of the individuals employed by
Howard C. Hopkins United States Mineral Surveyor, to
 assist in running, measuring, and marking the lines, cor-
 ners, and boundaries described in the foregoing field
 notes of the survey of the Homestead Entry claim of
John William Hickcox, described as H. E. No. 02002,
 List No. 745

and showing the respective capacities in which they acted.

<u>Albert Booth</u>	Chainman
_____	Chainman
_____	Axman
_____	Flagman.

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FINAL STATE OF BUSINESS

1900

LIST OF ASSETS

A list of the names of the individuals employed by
 the United States Mineral Survey, to
 assist in prospecting, and making the maps, etc.,
 and the number of days each has been employed in the
 service of the Survey of the Department of the Interior,
 is given on the following pages.

and the respective capacities in which they were

Chairman _____

Secretary _____

Assistant _____

73
SEP 30 1910
AUG 17 1910

FINAL OATHS OF ASSISTANTS.

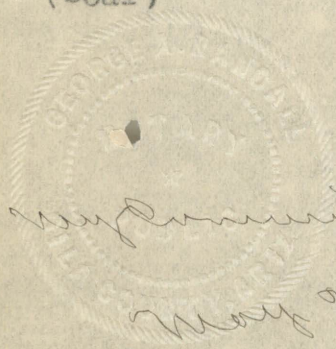
I, Albert Booth, do solemnly swear that I assisted
Howard C. Hopkins, United States Mineral Surveyor, in marking the corners
and surveying the boundaries of the Homestead Entry claim of _____
John William Hickcox described as Homestead Entry Survey No. 55
of Homestead Entry No. 02002, made in the Phoenix Local Land Office
June 8, 1908, designated as List No. 745
represented in the foregoing field notes as having been surveyed by
said mineral surveyor and under his direction; and that said survey
has been in all respects, to the best of my knowledge and belief,
faithfully and correctly executed, and the corner and boundary monuments
established according to law and the instructions furnished by the
United States Surveyor General for Arizona.

Albert Booth
Chairman.

Subscribed and sworn to by the above named persons before me
this twelfth day of August 1910.

(Seal)

George A. Randall
Notary Public.



*my commission expires
May 23 1912*

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STATE OF TEXAS

Alfred Booth
Henry C. Phillips, Walter G. Phillips, in writing the contract
and conveying the land to the undersigned, their heirs and assigns
do hereby certify that the land described in the above instrument
is the same as that described in the above instrument, and that the same
has been in all respects in the hands of the undersigned and heirs
and assigns of the undersigned, and that the same has been in all respects
conveyed to the undersigned, and that the same has been in all respects
conveyed to the undersigned, and that the same has been in all respects
conveyed to the undersigned.

[Handwritten signature]



FINAL OATH OF U. S. MINERAL SURVEYOR.

I, Howard C. Hopkins, U. S. Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated May 27, 1910, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Surveyor-General, faithfully and correctly executed the survey of the Homestead Entry claim of John William Hickcox, described as H. E. No. 02002, List No. 745

situate in Tonto National Forest, Gila County, Arizona, and designated as Homestead Entry Survey No. 55, as represented in the foregoing field notes, which accurately show the boundaries of said Homestead Entry claim as distinctly marked by monuments on the ground, and described in List No. 745, as incorporated in the instructions for the survey, received from the Surveyor General, and that all the corners of said survey have been established and perpetuated in strict accordance with the law, official regulations and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein.

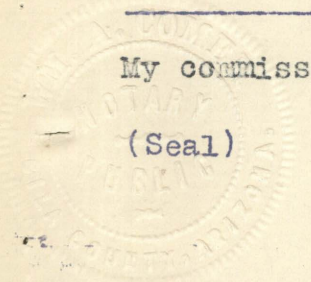
Howard C. Hopkins
U. S. Mineral Surveyor.

Subscribed and sworn to by the said Howard C. Hopkins, U. S. Mineral Surveyor, before me W.A. Comer this 8th day of July, 1910. ~~1909~~

My commission expires Sept. 19. 1912.

W.A. Comer
Notary Public

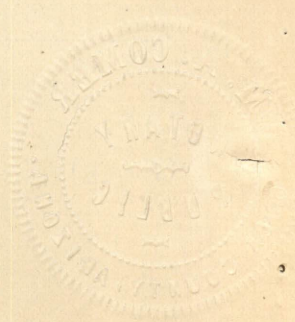
(Seal)



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A tract of 150.25 acres probably within the SE $\frac{1}{4}$ Sec. 13, T. 9 N., R. 10 E., and SW $\frac{1}{4}$ Sec. 18, T. 9 N., R. 11 E., bounded and described as follows: Beginning at a point 5 chains W. from corner to Sections 13 and 24, T. 9 N., R. 10 E., and Sections 18 and 19, T. 9 N., R. 11 E., extending thence N. 9 chains; thence S. 71° 30' E., 16 chains; thence S. 4 chains; thence E. 10 chains; thence N. 10 chains; thence E. 10 chains; thence N. 10 chains; thence E. 10 chains, thence N. 20 chains; thence W. 30 chains; thence S. 10 chains; thence W. 10 chains; thence S. 10 chains; thence W. 20 chains; thence S. 20 chains; thence E. 15 chains; to place of beginning. Variation 14° 30' E. Listed upon application of J. W. Hickcox of Gisela, Arizona, who alleges settlement in 1894.

U.S. SURVEYOR-GENERAL'S FINAL CERTIFICATE
ON FIELD NOTES.

---oOo---

DEPARTMENT OF THE INTERIOR,
Office of U. S. Surveyor-General,

Phoenix, Ariz., May 26, 1911.

I, U. S. Surveyor-General for the District of Arizona, do hereby certify that the foregoing transcript of the Field Notes, Return and Approval of the Survey of the Homestead Entry Claim of John William Hickcox, described as Homestead Entry No. 02002, List No. 745, situated in the Tonto National Forest, Gila County, Arizona, in Secs. 13 and 18, T. 9 N., Rs. 10 and 11 E., G. & S. R. Mer., and designated as Homestead Entry Survey No. 55, have been correctly copied from the originals on file in this office; that said Field Notes furnish such an accurate description of said Homestead Entry Claim as will, if incorporated into a patent, serve fully to identify the premises and that such reference is made therein to natural objects or to permanent monuments as will perpetuate and fix the locus thereof.

Frank S. Ingalls,
U. S. Surveyor-General for Arizona.

THE UNIVERSITY OF CHICAGO PRESS

ON KINETICS

BY J. H. HULL

Division of Physical Chemistry

University of Chicago Press, Chicago, Ill.

J. H. HULL, Department of Chemistry, University of Chicago

Chicago, Illinois, U.S.A. (Received 1957)

The reaction between hydrogen and oxygen

has been studied at various temperatures

and pressures. The results are discussed

in terms of the theory of the reaction

proposed by B. P. Noyes and R. M. Noyes

and compared with the results of other workers

in this field. It is concluded that the

reaction is of the type proposed by

Noyes and Noyes and that the

rate-determining step is the

formation of the active species

which initiate the reaction.

Printed in Great Britain

University of Chicago Press, Chicago, Ill.

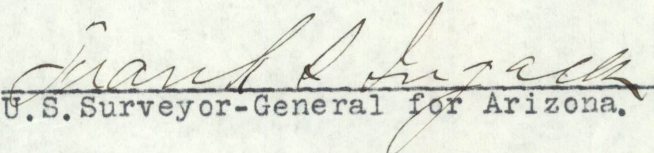
SURVEYOR-GENERAL'S CERTIFICATE OF APPROVAL
OF
FIELD NOTES AND SURVEY OF HOMESTEAD ENTRY CLAIM.

-----cOo-----

DEPARTMENT OF THE INTERIOR,
Office of U. S. Surveyor-General,

Phoenix, Arizona, May 26, 1911.

I, U. S. Surveyor-General for the District of Arizona, do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the Homestead Entry Claim of John William Hickcox, described as Homestead Entry No. 02002, List No. 745, situated in the Tonto National Forest, Gila County, Arizona, in Secs. 13 and 18, T. 9 N., Rs. 10 and 11 E., G. & S. R. Mer., designated as Homestead Entry Survey No. 55, executed by Howard C. Hopkins, U. S. Mineral Surveyor, June 3 - 4, 1910, under my instructions dated May 27, 1910, have been critically examined and the necessary corrections and explanations made and the said Field Notes and Return and the Survey they describe are hereby approved. A true copy of the copy of the Field Notes of the preliminary survey of said Homestead Entry Claim by the Department of Agriculture is included in the Field Notes.


U.S. Surveyor-General for Arizona.

SURVEYOR-GENERAL'S CERTIFICATE OF APPROVAL

FIELD NOTES AND RETURN OF SURVEY

DEPARTMENT OF THE INTERIOR

Office of U. S. Surveyor-General

Tucson, Arizona, May 20, 1911.

I, U. S. Surveyor-General for the District of Arizona, do hereby certify that the foregoing and hereto attached field notes and Return of the Survey of the Homestead Entry Claim of John William Hickox, described as Homestead Entry No. 2300, filed No. 443, situated in the Tonto National Forest, Gila County, Arizona, in Sec. 13 and 16, T. 2 N., R. 10 and 11 E., G. 12 S., H. 1st., as set out in Homestead Entry Survey No. 55, executed by Howard C. Hopkins, U. S. Mineral Surveyor, June 3 - 4, 1910, under my instructions dated May 27, 1910, have been critically examined and the necessary corrections and explanations made and the said field notes and Return and the Survey they describe are hereby approved. A true copy of the copy of the field notes of the preliminary survey of this Homestead Entry Claim of the Department of Agriculture is included in the field notes.

J. E. Sawyer - General for Arizona

9 1/2
10 8 11 1/2

- DIRECTIONS.—1. Carry out the area in acres to three decimals, and all other calculations to two decimals only.
 2. In balancing Lat. and Dep. do not obliterate or change the original figures. Put the corrected figure or figures above in red ink. Do not change the footing of the original figures, but put below them the corrected footing in red ink. The corrections for balancing fallings should be proportional to the lengths of the lines.
 3. In calculations of fallings take result to nearest hundredth. In calculations of N. and S. areas drop all after second decimal. Deputies are cautioned not to use tables that do not give results exact to the decimal specified.

TABLING AND CALCULATIONS OF *Amsted Entry of John William Hickey*, SURVEY No. 55

No.	COURSE	DISTANCE	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1	N. 70° 45' W.	530	175			500	-500	875	
2	N. 25° 46' E.	760	684		330		-670	4683	
3, 4	N. 48° 00' E.	3000	2007		2229		+1889	37912	
5	S. 36° 53' E.	1569		1255	942		+5060	63503	
6	South	1400		1400			+6002	84028	
7	West	2000			2000		+4002		
8	South	560		560			+2002	11211	
9	N. 70° 45' W.	1060	349			1001	+1001	3493	
			3215	3215	3501	3501		41405	164200
								41405	41405
								29122795	61397

61.40 acres

22222

TRAVERSE SHEET.

Survey No.

Claim

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Homestead-Entry—Survey No. 55.

Arizona Land District.

Tonto National Forest.

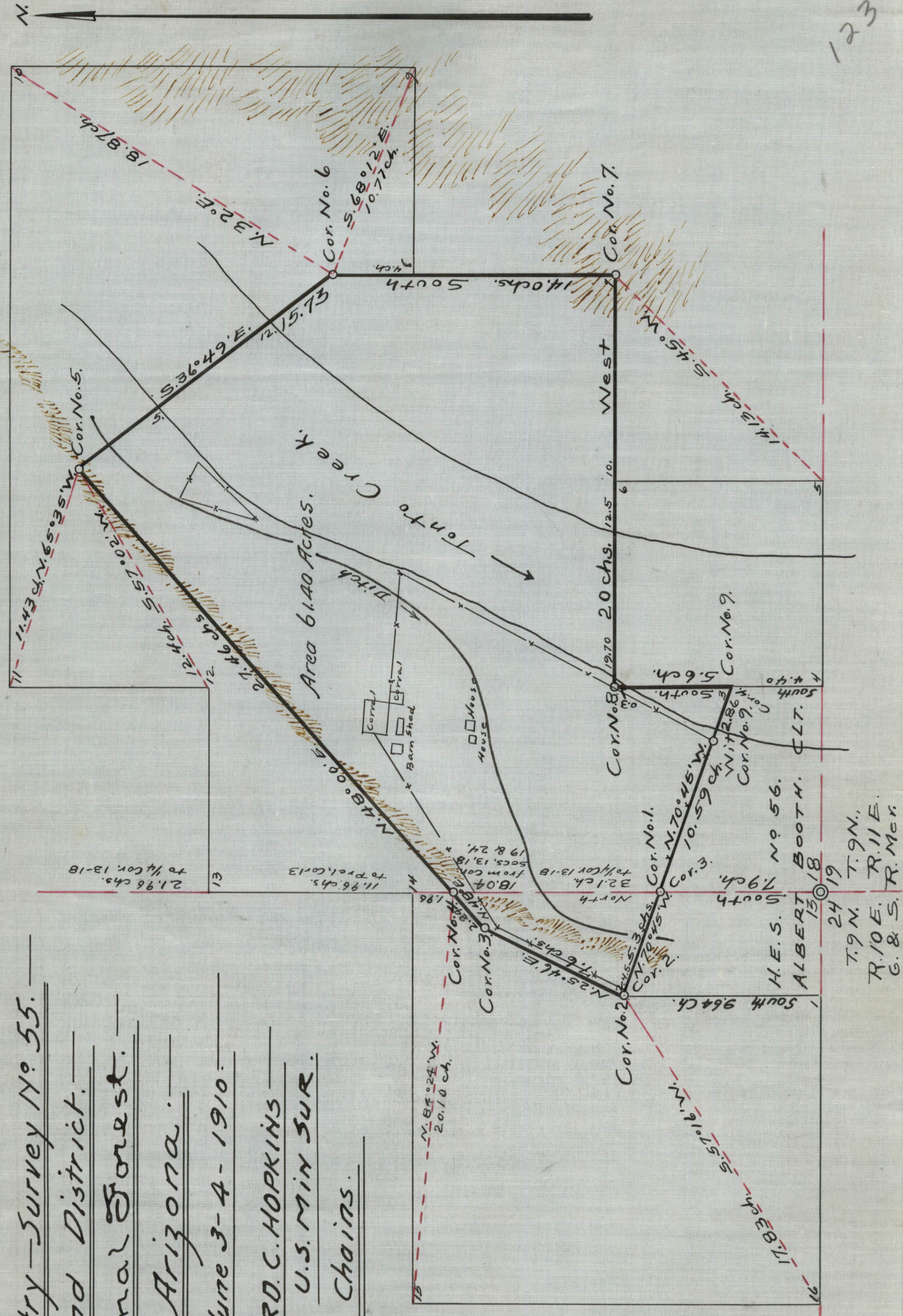
Gila County Arizona.

Surveyed June 3-4-1910.

by HOWARD C. HOPKINS

U.S. MIN SUR.

Scale 1 inch = 6 Chains.



2.196 chs. to 1/4 Cor. 13-18

11.96 chs. to Pre. Cor. 13

N. 84° 24' W. 20.10 ch.

Cor. No. 3

Cor. No. 2

Cor. No. 1

Cor. No. 9

Cor. No. 8

Cor. No. 7

Cor. No. 6

Cor. No. 5

Cor. No. 5

Cor. No. 6

Cor. No. 7

Cor. No. 8

Cor. No. 9

Cor. No. 1

Cor. No. 2

Cor. No. 3

Cor. No. 4

Cor. No. 5

Cor. No. 6

Cor. No. 7

Cor. No. 8

Cor. No. 9

N

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H.E.S. No. 56.
ALBERT BOOTH. CLT.
T. 9 N. T. 9 N.
R. 10 E. R. 11 E.
G. & S. R. Mer.