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(4-683.)

Mineral Survey No. 1478

Lot No.

GILA Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

THOMAS HIGGINS & F.C.FENNER

OF BISBEE COCHISE COUNTY ARIZONA TERRITORY

KNOWN AS THE

DEL NORTE MINING CLAIM

WARREN Mining District,

COCHISE County, ARIZONA TERRITORY

Section ~~XXXX~~ APPROXIMATELY Township 23 South, Range 24 East (unsurv.)

Surveyed under instructions dated MAY 15th, 1900,

by Geo. C. Clark, U. S. Deputy Mineral Surveyor.

Claim located JAN 1st, 1892

Survey commenced MAY 23 1900, 1

Survey completed MAY 24th 1900, 1

o 6-160

CLAIMANTS' ADDRESS: BISBEE COCHISE COCNTY ARIZONA TERRITORY

Location made of Del Norte and in with
Quarry of Magenta No 1479

PRELIMINARY OATHS OF ASSISTANTS IN SURVEY OF MINING CLAIM.

We, W.S. MOORE and C.W. MITCHELL,
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 length 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 Mining Claim of THOMAS HIGGINS & F.C. FENNER,
known as the
DEL NORTE MINING CLAIM
situate in WARREN mining district,
COCHISE County, ARIZONA TERRITORY,
~~XXXXXX APPROX~~ Township No. 23 South Range No. 24 East (unsurveyed).

W.S. Moore, Chainman.
C.W. Mitchell, Chainman.

Subscribed and sworn to by the above-named persons before
me this first day of June 1900, 1800.

S. K. Williams
NOTARY PUBLIC.

I, _____ do solemnly swear that I will well and
truly perform the duties of axeman, in the establishment of corners and other duties,
according to instructions given me and to the best of my skill and ability, in the survey
of the Mining Claim of _____
known as the _____,
more fully described in the preceding affidavit.

_____, Axeman.

Subscribed and sworn to by the said _____
before me this _____ day of _____,
1800.

I, _____, do solemnly swear that I will
well and truly perform the duties of flagman, in the establishment of corners and other
duties, according to instructions given me and to the best of my skill and ability, in the
survey of the Mining Claim of _____
known as the _____,
more fully described in the preceding affidavit.

_____, Flagman.

Subscribed and sworn to by the said _____
before me this _____ day of _____,
1800.

FEET

1478

- Beginning at cor. No. 1, the N.W. cor.
 Identical with the N.E. cor. Auburn Lode & on the South side line Calena Claim at $S 45^{\circ} 57' 70'' W$ 427.6 ft. from the S.E. cor. of that claim.
 A pine post $3 \frac{1}{2}$ ft. long 4 ins sq. set in a mound of stones, scribed 1/ 1478 / D.N.L. whence
 Original location bears $N 75^{\circ} 10' W$ 42.4 ft. & a rock in place 2ft. sq. 13 ins. high chiseled x-1-F.R. 1478 bears $N 11^{\circ} 25' E$ 1.5 ft. & U.S.M.M. No. 4 bears $N 23^{\circ} 47' W$ 2359. FT
 Thence $S 19^{\circ} 07' E$
- 274.00 To center of the East end line of Auburn Claim
 A pine post $3 \frac{1}{2}$ ft. high set in a mound of stones scribed on West side A.L.
- 414.50 Same bearing to 3×3 ft. wash, course N.E.
- 546.6 Same bearing to cor. No. 2, identical with the S.E. & N.E. corners of the Auburn & DelMar Claims respectively,
 A pine post $3 \frac{1}{2}$ ft long, 4 ins. sq. set in a mound of stones, scribed 2/ 1478 / D.N.L. whence
 A pointed rock in place 19 x 51 ins. base 21 ins. high chiseled x-2-F.R.¹⁴⁷⁸ bears $N 86^{\circ} W$ 203 ft.
 Thence $S 19^{\circ} 02' 30'' E$
- 294.00 TO center of the East end Del Mar Lode
- 344.00 Same bearing to 3×3 ft. wash, course N.E.
- 587.90 Same bearing to cor. No. 3, identical with the S.E & N.E corners of the Del Mar & Harrison Claims respectively.
 A pine post $3 \frac{1}{2}$ ft. long 4 ins sq. set in a mound of stones, scribed 3/ 1478 / D.N.L. whence a rock in place $2 \frac{1}{2} \times 3$ ft. 2 ft. high, chiseled x-3-F.R. 1478 bears $S 24^{\circ} 19' 30'' W$ 97.4 ft.
 Thence $S 19^{\circ} 14' E$
- 67.60 To old stone monument
- 242.20 Same bearing to cor. No. 4 the S.W. cor. identical with location & with the N.W. cor. Higgins Lode.
 An iron pin 2 ins. diameter set in bed rock chiseled 1-H-1410 & 4/ 1478 / D.N.L. whence
 A limestone outcrop chiseled. x-4-F.R. 1478 bears $N 18^{\circ} 30' W$ 125.00 ft. & U.S.M.M. No. 4 bears $N 22^{\circ} 11' 30'' W$

Handwritten note:
 227

FEET

- No other bearing monuments available
- Thence N 71° 31' E
- 200.80 To N end center Higgins Lode
- 249.40 To cor No. 5, identical with location for S end center
A pine post 4 ft long, 4 ins. sq. set 1 ft. in the ground
surrounded by a mound of stones, scribed 5/1478/ D.N.L.
Whence a rock in place 1 x 2 ft. 18 ins. high, chiseled
x-5-F.R. 1478 bears N 24° 34' E 103.60 ft.
- Thence N 65° 27' 30" E
- 135.20 To cor. No. 6, the S.E. cor. whence
Cor. No. 2 Hard Scrabble Lode, Survey No. 1026 bears
S 13° 18' E 255.60 ft. & N.E. cor. Higgins Lode, same bearing
14.20 ft. & original location bears N 79° 30' E 114
ft.
- A pine post 4 ft. long ~~xxx~~ 4 ins. sq. set 1 ft. in ground
surrounded by a mound of stones, scribed 6/1478/ D.N.L.
Whence a rock in place 18 ins. high 13 ins. sq. chiseled
x-6-F.R. 1478 bears N 60° 15' W 79 ft.
- Thence N 13° 18' W
- 947.40 To cor. No. 7 identical with cor. No. 3 Hard Scrabble
Lode, Survey No. 1026 & with cor No. 6 Morning Star Lode
Survey No. 1331.
A pine post 5 ft. high set on bed rock, scribed 7/1478
D.N.L. whence
A rock in place 16 ins. high 2 ft. sq. chiseled x-7-F.R.
1478 bears N 68° 10' E 132.00 ft.
- Thence N 17° 47' W
- 467.30 To cor. No. 8 the N.E. cor. identical with location & with
cor. No. 7 Morning Star Lode Survey No. 1331
A pine post 3 ft. high set in a mound of stones, scribed
8/1478/ D.N.L. Post is 4 ins. sq. whence
A rock in place level with ground 18 ins. sq. chiseled
x-8-1478-F.R. bears N 37° 52' E 168.70 ft.
- Thence S 68° 42' W
- 64.80 To cor. No. 9 identical with cor. No. 8 Morning Star
Lode Survey No. 1331 & with the S.E. cor. Galena Claim
A pine post 3 ft. long 4 ins. sq. set in a mound of stones
scribed 9/1478/ D.N.L. whence a rock in place level
with ground chiseled x-9-F.R. 1478 bears N 39° 41' E 241 ft.
- Thence S 65° 27' 30" W
- 427.60 To corner, the place of beginning

AREA

STA.	BEAR	DIST	LAT	DEP	D.MDD.	2AREA
1-2	S 19° 07' E	546.60	516.46	+179.01	+179.01	92451.50
2-3	S 19° 02' 30" E	587.90	555.73	+191.73	+549.75	305502.57
3-4	S 19° 14' E	242.20	228.70	+79.78	+821.26	187822.16
4-5	N 71° 31' E	249.40	+79.06	+236.54	+1137.58	89937.07
5-6	N 65° 27' 30" E	115.20	+56.16	+122.98	+1497.10	84077.14
6-7	N 13° 18' W	947.40	+921.91	-217.95	+1402.13	1292637.67
7-8	N 17° 47' W	467.30	+444.90	-142.72	+1041.46	463345.55
8-9	S 68° 42' W	64.80	-23.54	-60.37	+838.37	19735.23
9-1	S 65° 27' 30" W	427.60	-177.60	-389.00	+389.00	69086.40

TOTAL & NET AREA DEL NORTE LODE----- 14.41 ACRES

--- LEDGE ---

The presumable course of the 3 ft. Ledge opened at the Discovery Shaft on this claim is N 20° 15' W 350 ft. & S 20° 15' E 1000 ft. from that point

---LOCATION---

This Claim is located about 1 mile S.E. of the Town of Bisbee, in the Warren Mining District, Cochise County Arizona Territory, on unsurveyed lands, approximately in Township 23 South, Range 24 East, Gila & Salt River Base & Meridian, Arizona.

EXPENDITURE OF \$500.00

I certify that the value of the labor & improvements upon this claim, placed thereon by the claimants or their grantors is not less than \$500.00 & that said improvements consist of

No. 1 Disc. Shaft 4x5x10 ft. bears from cor. No. 7 S 88° 26' W	VALUE
253.00 feet-----	\$100.00
No. 2 Shaft 4x5x10 ft. bears from cor. No. 7 S 49° 07' W	
211.00 feet-----	100
No. 3 Shaft 4x5x43 ft bears from cor. No. 1 S 76° 05' E.	
84.00 feet.-----	430.00
No. 4 Shaft 5x7x10 ft. bears from cor. No. 9 S 17° W 66 ft.	100.00
Total value of improvements-----	\$730.00

ADJOINING CLAIMS

ON THE NORTH

Calena Lode Lowell & Arizona ^{copper} Mining & Smelt. Co. Owners
 Morning Star No. 1331 Copper Queen Con. Min. Co. Owners

ON THE WEST

Auburn, Del Mar & Harrison Mining Claims

Lowell & Arizona Copper Mining & Smelt. Co. Owner

ON THE SOUTH

Higgins Lode

Lowell & Arizona Copper Mining & Smelt. Co. Owners

ON THE EAST

Hard Scrabble Lode No. 1026

South Bisbee Copper Mining & Townsite Improv. Co. Owners

Morning Star Lode No. 1331

Copper Queen Consolidated Mining Co. Owners

- Instrument -

The survey was made with a Gurley Light Mountain Transit, the courses were deflected from the true Meridian as determined by direct solar observations, checked by an observation on Polaris.

All distances were measured with a 300 foot steel tape

Variation of Compass Needle $11^{\circ} 47' E$ throughout.

*Any disagreement between this survey
 & that of adjoining claims are due to
 errors in the latter.*

Geo. C. Clark

U.S. Deputy Mineral Surveyor

*Prescott Arizona
 May 24th 1900*

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by GEO. C. CLARK
 United States Deputy Mineral Surveyor, to assist in running, measuring, and marking the lines
 corners and boundaries described in the foregoing field notes of the survey of the mining claim
 of THOMAS HIGGINS & F.C.FENNER
 known as the DEL NORTE MINING CLAIM
 and showing the respective capacities in which they acted.

W.S. Moore, Chainman.
C.W. Mitchell, Chainman.
 _____, Axman.
 _____, Flagman.

FINAL OATHS OF ASSISTANTS.

We, W.S. MOORE & C.W. MITCHELL
 and _____, do solemnly swear that we assisted
GEO. C. CLARK, United States Deputy Mineral Surveyor, in marking the corners and
 surveying the boundaries of the mining claim of
THOMAS HIGGINS & F.C.FENNER
 _____, known as the
DEL NORTE MINING CLAIM, represented
 in the foregoing field notes as having been surveyed by said deputy mineral surveyor and under
 his direction; and that said survey has been in all respects, to the best of our 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 TERRITORY.

W.S. Moore, Chainman.
C.W. Mitchell, Chainman.
 _____, Axman.
 _____, Flagman.

Subscribed and sworn to by the above-named persons before me
 this FIRST day of JUNE 1900, 189

S. K. Williams
 NOTARY PUBLIC
 In and for Cochise County, Arizona Territory.
 (My Commission expires December 25th, A. D., 1901.)

FINAL OATH OF U. S. DEPUTY MINERAL SURVEYOR

I, GEO. C. CLARK, U. S. Deputy Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for ARIZONA TERRITORY, dated MAY 15th 1900, 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 Mining Claim of Thomas Higgins & F.C. Fenner Of Bisbee Cochise County Arizona Territory, known as the Del Norte Mining Claim, situate in WARREN Mining District, COCHISE County, ARIZONA TERRITORY, in ~~Section~~ APPROXIMATELY Township No. 23 South Range No. 24 East (unsurveyed) and designated as Survey No. 1478, as represented in the foregoing field notes, which accurately show the boundaries of said mining claim as distinctly marked by monuments on the ground, and described in the attached copy of the location certificate, which was received by me from the Surveyor General with said instructions, 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, and that the labor expended and improvements made upon said mining claim by claimant or their grantors are as therein fully stated, and that the character, extent, location and itemized value thereof are specified therein with particularity and full detail, and that no portion of said labor or improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

G. C. Clark
 U. S. Deputy Mineral Surveyor.

Subscribed and sworn to by the said GEO. C. CLARK
 U. S. Deputy Mineral Surveyor, before me _____
 _____ this FIRST
 day of JUNE 1900,

L. K. Williams
 NOTARY PUBLIC.
 In and for Cochise County, Arizona Territory,
 (My Commission expires December 15th, A. D., 1901.)

Affidavit of Five Hundred Dollars Improvements.

We, H. J. BROPHY, and E. B. MASON

of lawful age, being first duly sworn according to law, depose and say: that we are acquainted with the DEL NORTE mining claim, situate

in WARREN Mining district, COCHISE County,

Arizona Territory, for which THOMAS HIGGINS & F. C. FENNER

OF BISEE COCHISE COUNTY ARIZONA TERRITORY

has E. made application for survey prior to application for patent under the provisions of the Act of Congress, approved May 10, 1872; and that the labor done and improvements made thereon by the applicants and their grantor exceed Five Hundred Dollars in value, and further that we are not personally interested in said mine.

H. J. Brophy
E. B. Mason

TERRITORY OF ARIZONA, }
County of COCHISE } ss:

Sworn to and subscribed before me, this FIRST
day of JUNE ~~18XX~~ 1900 ~~18XX~~

S. K. Williams
NOTARY PUBLIC.
In and for Cochise County, Arizona Territory.
(My Commission expires December 15th, A. D., 1901.)

Notice of location.

Notice is hereby Given that the undersigned, in compliance with the requirements of the Mining Act of Congress, approved May 10th, 1872, has this day located and claim Fifteen hundred linear feet along the course of this lead, lode or vein of mineral-bearing quartz, three hundred feet in width on each side of the middle of said lead, lode or vein, situate in the Warren Mining District, County of Cochise, Arizona, and more particularly described as follows: to-wit:

COMMENCING at this monument of stones, being the center of the North end of ^{the} claim, and upon which this notice is posted; thence west 300 feet to a monument of stones; thence South 1500 feet to a monument of stones; thence east 300 feet to a monument of stones, being the center of the South end of claim; thence east 300 feet to a monument of stones; thence North 1500 feet to a monument of stones; thence West 300 feet to the place of beginning.

THIS CLAIM is bounded on the North by the Galena on the west by the Aurora Delmar and Harrison mining claims on the east by the Ala Empire & Hardscrabble claims. Its North east corner is about 700 ft west from the sixth culvert on the R.R. from Bisbee. and shall be known as the Delnorte Mine.

Located January 1st, 1892

Thos Higgins

Filed and recorded at request of Thos Higgins February 29, A.D. 1892.
Book 12 page 452, Records of Mines.

Owing to clerical error at time of recording, the insertion as written in red ink has this day been corrected to correspond with original location notice

July 7th, 1900

W. F. Bradley

Ex-County Recorder.

Territory of Arizona,)
) :SS.
County of Cochise,) I, Frank Hare County Recorder in and for

said County do hereby certify that the foregoing, location
notice of the "Delnorte" mining claim, situated in the Warren
Mining District, Cochise County, Arizona Territory, is a true
and correct copy as the same appears of record in my said
office.

Witness my hand and official seal, this 7th, day of July
A. D. 1900.



Frank Hare

County Recorder

(4-687.)

Surveyor General's Certificate of Approval of Field Notes and Survey of Mining Claim.

Department of the Interior,

Office of U. S. Surveyor General,

Tucson, Arizona

July 26, 1901, 18

I, U. S. Surveyor General for Arizona,

do hereby certify that the foregoing and hereto attached Field Notes and Return of the

Survey of the Mining Claim of Thomas Higgins & F. C. Kemer
of Bisbee, Cochise County, Arizona Territory

, known as the

Del Norte Mining Claim

situate in Barren mining district,

Cochise

County,

Arizona,

in Section Approx, Township No. 23S., Range No. 24E. (unsurveyed)

, designated as Survey No. 1478

executed by Geo. C. Clark, U. S. Deputy Mineral

Surveyor, May 23-24-1900, under my instructions dated

May 15th, 1900, 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 location

certificate filed by the applicant for survey is included in the field notes.

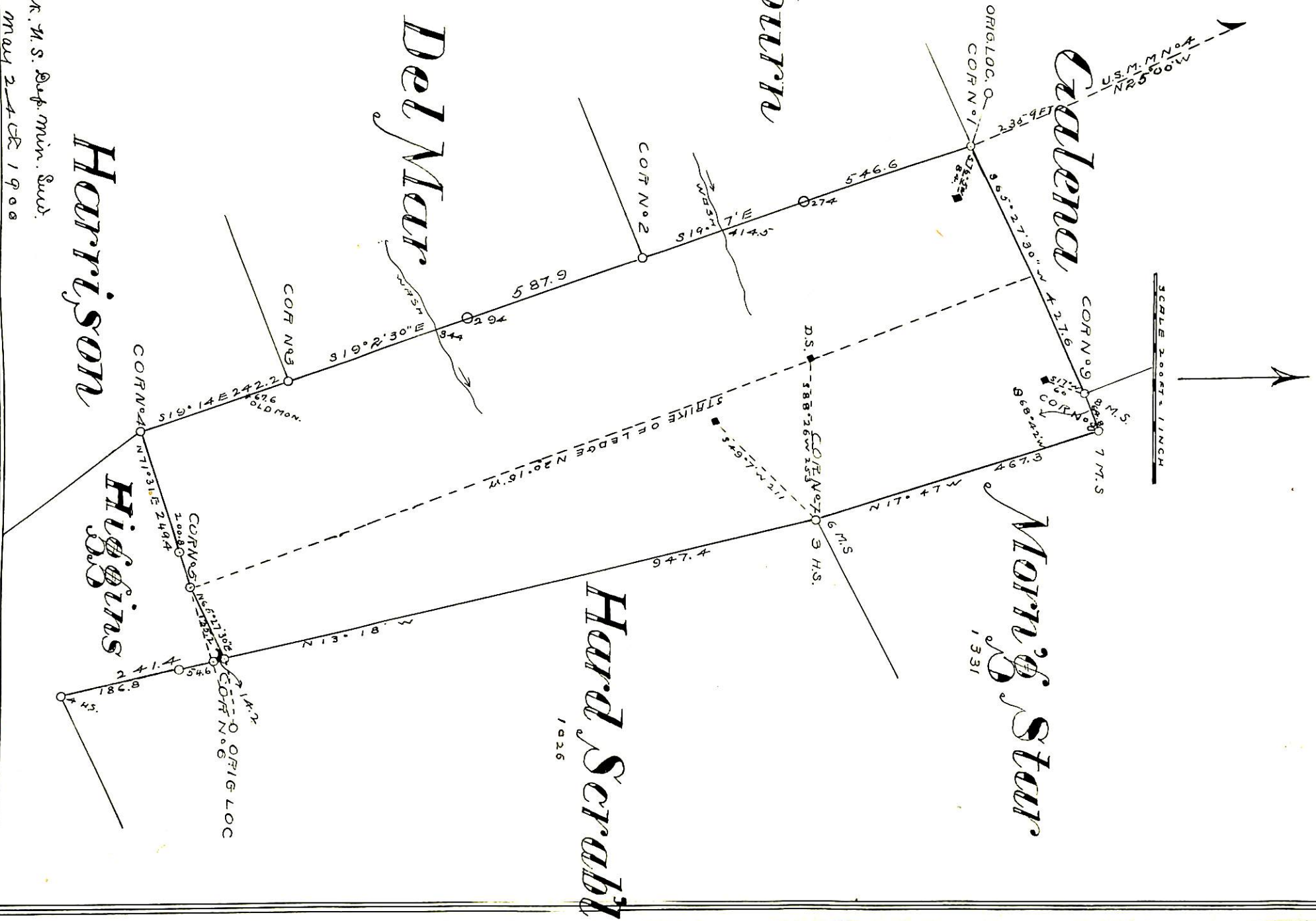
George Christ

U. S. Surveyor General for

Arizona

DeSoto's Soda

12, 78



Wm. C. Clark, N. S. Sup. Min. Surv.
Roster Aug May 24th 1900