

4-683

MINERAL SURVEY No. 4063

Arizona, Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Cardinal Gold Mining Co.

KNOWN AS THE

SENATOR NO. 1 and SUNBEAM NO. 1 lodes.

Fresnal Mining District,

Pima County, Arizona.

Approx. Sections 28 29 & 33; Township 18 S., Range R. 7 E., Uns. ?

Surveyed under instructions dated April 7, 1928

by J. A. Burns U. S. Mineral Surveyor.

Claim located See location notices, 19

Survey commenced April 16, 19 28

Survey completed April 17, 19 28

Address of claimant H.O. Juliani, Tucson Arizona, Attorney for claimant.

DATES OF AMENDED LOCATIONS.

See location location notices.

Feet.

MINERAL SURVEY NO. 4063

SENATOR NO. 1 Lode.

Beginning at Cor. No.1, identical with Loc. Mon., on line 2-3
Sunbeam No.1 lode of this Sur. at N.27°33'W. 870.0 ft. from Cor. No.2

An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground,
set 18 ins. in the ground, stamped 1 Sen. No.1- 4063, with md of
stone alongside, whence U.S.L.M. No.4063 brs. S.63°44'20"E., 1246.40
ft.

No other bearings are available.

Thence N.27°33'W.
Va. 13°45'E.

315.0 To E. end center, identical with Loc. Mon.

An iron pipe 3 ins. diam. by 4 ft. high set firmly in the
ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high,
stamped E. Cr. Sen. No.1. lode

350.0 Gulch brs. southwesterly.

630.0 To Cor. No.2, identical with Loc. Mon. and Cor. No.3 Sunbeam
No.1 lode of this Sur.

An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground,
set 18 ins. in the ground, stamped 2 Sen. No.1, 3 S.B. ^{No.1} - 4063 ,
with md of stone alongside.

No bearings are available.

Thence S. 80°33'W.
Va. 13°45'E.

1500.0 To Cor. No.3, identical with Loc. Mon.

An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground,
set 18 ins. in the ground, stamped 3 Sen. No.1 - 4063, with md of
stone alongside.

No bearings are available.

Thence S. 27°33'E.
Va. 13°45'E.

315.0 To W. end center, identical with Loc. Mon.

A Palo Verde post 4 ins. diam. by 4 ft. high, set firmly in the
ground and surrounded with md of stone 3 1/2 ft. base by 3 ft. high,
scribed W. Cr. Sen. No.1.

Feet.	MINERAL SURVEY NO. 4063.
	SENATOR NO. 1 Lode -Cont'd.
520.0	Gulch brs. southwesterly.
630.0	To Cor. No.4, identical with Loc. Mon.
	An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground, stamped 4 Sen. No.1 - 4063, with md. of stone alongside.
	No bearings are available.
	Thence N. 80°33'E. Va. 13°45'E.
1500.00	To Cor. No.1, the place of beginning.
	SUNBEAM NO. 1 Lode.
	Beginning at Cor. No.1, identical with Loc. Mon.
	An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground, stamped 1,S.B. No.1-4063 with md of stone alongside, whence U.S. L.M. No.4063 brs. N.36°26'E.,155.76 ft.
	No other bearings are available.
	Thence S.81°22'W. Va. 13°45'E.
315.0	To S. end center. identical with Loc. Mon.
	A mesquite post 3 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high, scribed S. Cr. S.B. No.1
630.0	To Cor. No.2, identical with Loc. Mon.
	An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground, stamped 2 S.B. No.1 - 4063, with md of stone alongside.
	No bearings are available.
	Thence N. 27°33'W. Va. 13°45'E.
870.0	To Cor. No.1 Senator No.1 lode of this Sur., heretofore described.
1185.00	To E. end center Senator No.1 lode of this Sur., heretofore described.
1220.0	Gulch brs. southwesterly.
1500.0	To Cor. No.3, identical with Loc. Mon. and Cor. No.2, Senator No.1 lode of this Sur., heretofore described.
	Thence N.81°22'E. Va.13°45'E.

Feet.

MINERAL SURVEY NO. 4063.

SUNBEAM NO.1 Lode, Cont'd.

315.0

To N. end center, identical with Loc. Mon.

A mesquite post 3 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md. of stone 3 1/2 ft. base by 3 ft. high.

Scribed N. Cr. S.B. No.1

630.0

To Cor. No.4, identical with Loc. Mon.

An iron pipe 2 ins. diam. with cap on top, 24 ins. above ground, set 18 ins. in the ground, stamped 4 S.B. No.1 - 4063 with md. of stone alongside.

No bearings are available.

Thence S. 27°33'E.

Va. 13°45'E.

300.0

Gulch brs. southwesterly.

1500.0

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

LODE LINES.

As near as can be determined from the present developments, the veins of the several locations, embraced in this claim, extend as follows from their respective discoveries.

Senator No.1 lode, 462.0 ft. N.80°33'E., and 1038.0 ft. S.80°33'W.

Sunbeam No.1 lode, 340.0 ft. S.27°33'E., and 1160.0 ft. N.27°33'W.

AREA.

	Acres.
Total area Senator No.1 lode -----	20.621

Total area Sunbeam No.1 lode -----	20.523
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LOCATION.

This Survey is located approximately in Sections ^{29, & 33} 28, T.18S., R.7 E., Unsurveyed, within the Fresnal Mining District, Pima County, Arizona.

EXPENDITURE OF FIVE HUNDRED DOLLARS.

I certify that the value of the labor and improvements made upon or for the benefit of each of the locations embraced in said mining claim by the claimant or its grantors is not less than five hundred dollars; and that said improvements consist of ;

Senator No.1 lode.

No.1, the discovery shaft, the center of which being the discovery point, on the center line, 462.0 ft. from the center of line 1-2

MINERAL SURVEY NO. 4063

EXPENDITURE OF FIVE HUNDRED DOLLARS.

SENATOR NO.1 lode - Cont'd.

4 x 6 ft. 80 ft. deep. (Timbered) Value \$1000.0

No.2 A shaft, the center of which brs. from the E. end center N.53°W., 200 ft. 4 x 6 ft. 6 ft. deep. Value \$60.0

No.3 A shaft, the center of which brs. from the E. end center N. 54°W., 135.0 ft. 4 x 6 ft. 10 ft. deep. Value \$100.0

No.4 A cut, the mouth of which brs. from the E. end center N. 61°W., 70.0 ft. 3 1/2 ft. wide, 6 ft. face, running N.52°W., 20 ft. to face. Value \$100.0

SUNBEAM NO. 1 lode.

No.1 The discovery shaft, the center of which being the discovery point, on the center line, 340 ft. from the center of line 1-2, 4 x 6 ft. 20 ft. deep. At the bottom of shaft is a drift 4 x 6 ft. running S.55°E., 100 ft. to face. At the same point is a tunnel 4 x 6 ft. running N.55°W., 117.0 ft. Total value 2370.0

No.2 A shaft, the center of which brs. from Cor. No.2 N.8°15'W., 500.0 ft. 4 x 6 ft. 50 ft. deep. Value \$500.0

INSTRUMENT.

This survey was made with a Gurley mountain transit, the courses were deflected from the true meridian as determined by direct solar observations. The distances were measured with a 500 ft. steel tape.

REPORT.

The lode line of each location of this claim ^{was} ~~were~~ run directly upon the ground, and the corners were established by running around the claims.

U.S.L.M. No.4063 consists of an iron pipe 4 ins. diam by 14 ft. high, set 18 ins. in the ground and surrounded with md. of stone 6 ft. base by 4 1/2 ft. high, stamped U.S.L. M. No.4063- F.M. D.

MINERAL SURVEY NO. 4063

Adjoining Claims.

There are no adjoining or conflicting claims known.

SOLAR OBSERVATION.

Direct solar observation taken Monday, April 16, 1928 at 3:34 P.M. solar time . Sun bisected. Lat. 31°50' - Lon. 111°38'

Difference in time 11 h.

Apparent declination 10° 8' 3.1"
 9' 45.09"
 Dec'l = 10° 17' 48.19"

P = 90 - Dec'l = 90
 79° 42' 11.8'

L = 31°50'
 H = 36°17'42" (Appt H - 36°19'. Refraction - 1' 18")
 P = 79°42'12"
 2) 147°49'54"
 s = 73°54'57"

$$\sin \frac{1}{2} A = \frac{\sin(S-L)(S-H)}{\cos L \cos H}$$

S-L = 42°04'57" 9.8262044
 S-H = 37°37'15" 9.7856381
 0.0707927
 0.0936757
 2) 19.7763109
 9.8881554 = 50°37'13" - 1/2 A
 101°14'26" - A.

180° - 101°14'26" = S. 78°45'34" W. - bearing of sun.
 2°36'30" Angle to right from sun.
 S81°22'00" W. Course of line 1-2

Set up at Cor. No.1 Sunbeam No.1 lode F.S. to Cor. No.2.

FIELD NOTES - U.S. L.M. No.4063

Fresnal Mining District.

Pima County, Arizona.

On the summit of a high conglomerate hill at an elevation of about 1200 ft. and overlooking the surrounding country I dug a hole 18 ins. deep in the solid formation. Over the center of this hole I carefully leveled my transit , whence Va. 13°45'E., by direct solar observation a church at the village of Topahua brs. S.85°42'W., about 13 miles. The Summit of South mountain in the Quijotoa Range brs. N.68°24'W., about 32 1/2 miles. A high peak in the South Comobabi Mts. brs. N.45°11'W., about 18 miles. The Allison Reservoir brs. N.70°E., about 1500 ft.

do not include in transcript

MINERAL SURVEY NO. 4063

FIELD NOTES - U.S.L.M. NO. 4063

The Allison Camp brs. S. 29°44'E., 1600 ft.

The Allison Mine brs. S.10°26'W., 3460 ft.

I now remove transit and set an iron pipe 4 ins. diam. by 14 ft. high in its position and surround same with md of stone 6 ft. base by 4 1/2 ft. high, stamped U.S. L.M. No.4063. F. M. D.

T. N. Stevens

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by T.N. Stevens
 United States 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 _____
Cardinal Gold Mining Co.
 known as the SENATOR NO. 1 and SUNBEAM NO. 1 lodes.
 and showing the respective capacities in which they acted.

L.J. Booher, Chairman.
 _____, Chairman.
 _____, Axman.
 _____, Flagman.

FINAL OATHS OF ASSISTANTS.

We, L.J. Booher,
 and _____, do solemnly swear that we assisted _____
T.N. Stevens, United States Mineral Surveyor, in marking the corners and surveying
 the boundaries of the mining claim of Cardinal Gold Mining Co.
 known as the SENATOR NO. 1 and SUNBEAM NO. 1 lodes.
 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 our knowledge and belief, faithfully
 and correctly executed, and the corner and boundary monuments established according to law and the instruc-
 tions furnished by the United States Surveyor General for OFFICE CADASTRAL ENGINEER

L. J. Booher, Chairman.
 _____, Chairman.
 _____, Axman.
 _____, Flagman.

Subscribed and sworn to by the above-named persons before me this 30
 day of April, 19 28

E. J. Quirk
 My commission expires Notary Public
2-27-20 6-1043



FINAL OATH OF U. S. MINERAL SURVEYOR

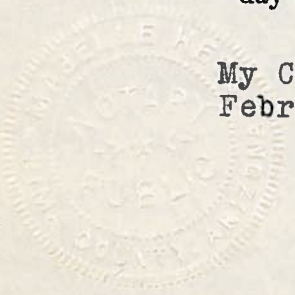
I, T.N. Stevens, U. S. Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the Office Cadastral Engineer,
at Phoenix, Arizona, dated April 7, 1928,
I have, in strict conformity to the laws of the United States, the official regulations and instruc-
tions thereunder, and the instructions of said Office Cadastral Engineer, faithfully and correctly
executed the survey of the Mining Claim of Cardinal Gold Mining Co.
....., known as the
SENATOR NO. 1 and SUNBEAM No.1 lodes.
situate in Fresnal Mining District,
Pima County, Arizona, Approx., in Sections
28, 29 & 33, Township No. 18 S., Range No. 7 E., Unsur.
and designated as Survey No. 4063, 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 certifi-
cate, which was received by me from the Office Cadastral Engineer with said instructions, and
that all 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 its
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.

T. N. Stevens
.....
U. S. Mineral Surveyor.

Subscribed and sworn to by the said T. N. Stevens
U. S. Mineral Surveyor, before me Maebelle Hess, a Notary Public
Arizona
in and for the County of Pima, State of this 30th
day of April, 1928

My Commission expires
February 7, 1932.

Maebelle Hess
.....
Notary Public.



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

Department of the Interior,
PUBLIC SURVEY OFFICE
OFFICE OF U. S. SURVEYOR-GENERAL,

Phoenix, Arizona,

May 21, 1928

I, U. S. Surveyor-General for, OFFICE CADASTRAL ENGINEER at Phoenix, Arizona,

do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey of the mining claim of

Cardinal Gold Mining Co.

known as the SENATOR NO. 1 and SUNBEAM NO. 1 lodes

situate in Fresno

Mining District, Pima County, Arizona, Approx.

in Section 28, 29, 33, Township No. 18 S., Range No. 7 E., Uns., and

designated as Survey No. 4063, has been correctly copied from the originals on file in this office; that said Field Notes furnish such an accurate description of said mining 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 permanent monuments as will perpetuate and fix the locus thereof.

And I further certify that five hundred dollars' worth of labor has been expended or improvements made upon said mining claims by claimant or its grantors, and that said improvements consist of 5 shafts, 1 cut, 1 drift and 1 tunnel, total value \$4130.

and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

I further certify that the plat thereof, filed in the U. S. Land Office at Phoenix, Arizona, is correct and in conformity with the foregoing Field Notes.

John D. Adams

United States Surveyor-General for OFFICE CADASTRAL ENGINEER

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~~SURVEYOR GENERAL'S~~ CERTIFICATE OF APPROVAL OF FIELD NOTES
AND SURVEY OF MINING CLAIM

DEPARTMENT OF THE INTERIOR
~~OFFICE OF U. S. SURVEYOR GENERAL~~
PUBLIC SURVEY OFFICE

Phoenix, Arizona

May 21, 1928

I, ~~U. S. Surveyor General for~~ OFFICE CADASTRAL ENGINEER, at Phoenix, Arizona,

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

Cardinal Gold Mining Co.

, known as the

SENATOR NO. 1 and SUNBEAM NO. 1 lodes

situate in Fresno mining district,

Pima County, Arizona, Approx.

in Sections 28, 29 & 33, Township No. 18 S., Range No. 7 E., Unsur.

, designated as Survey No. 4063

executed by T. N. Stevens, U. S. Mineral

Surveyor, April 16 - 17, 1928, under my instructions dated

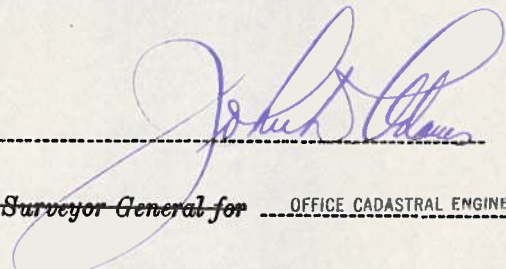
April 7, 1928, have been critically examined and the necessary

corrections and explanations made, and the said Field Notes and Return, and the survey they describe,

are hereby approved. The certified copy of the location certificate filed by the applicant for survey is

on file in this office and a true copy of said certified copy of said location certificate is included and

made a part of the transcript of the field notes.


U. S. Surveyor General for OFFICE CADASTRAL ENGINEER