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PRINTED: 01/15/2003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: COMMODORE

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 69C

LOCATION: TOWNSHIP 23 S RANGE 11 E SECTION 19 QUARTER SW
LATITUDE: N 31DEG 24MIN 28SEC LONGITUDE: W 111DEG 15MIN 20SEC
TOPO MAP NAME: ORO BLANCO - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
- COPPER SULFIDE
- GOLD
- SILVER
- LEAD SULFIDE
- ZINC SULFIDE

BIBLIOGRAPHY:
AZBM BULL 191, INDEX OF MINING PROPERTIES IN
SANTA CRUZ CO., AZ. KEITH, STANTON, 1975
ADMMR COMMODORE MINE FILE

Oro Blanco, 9 15'

COMMODORE SANTA CRUZ COUNTY

MG WR 8/16/85: Mr. Robert Fricchione reports that he is now paying for the Commodore and Leopard patented mining claims comprising the Commodore mine of Santa Cruz Co. Apparently Mr. Bob Johnson (c) has an engineering report on the property.

DATE PRINTED: MAR 18, 1981

MINERALS AVAILABILITY SYSTEM
DEPOSIT LISTING

DEPOSIT NAME: COMMODORE MINE

SEQUENCE NUMBER: 0040230049

Done 8/18/81

>>>> MILS - DATA SET <<<<
(MINERAL INDUSTRY LOCATION)

STATE: ARIZONA
COUNTY: SANTA CRUZ
TYPE OF OPERATION: UNDERGROUND
CURRENT STATUS: PAST PRODUCER
LATITUDE: N 31DEG 24MIN 28SEC
LONGITUDE: W 111DEG 15MIN 20SEC
UTM - ZONE: 12
HEMISPHERE: NORTHERN
NORTHING: 3474650
EASTING: 475720
POINT OF REFERENCE: MAIN ENT
PRECISION: 100 METERS
ELEVATION: 1158 METERS
PRECISION: 100 METERS

YEAR FIELD CHECKED:
QUADRANGLE: NOGALES
RIVER BASIN NAME:
SAN SIMON WASH
RIVER BASIN CODE: 59R
HYDROLOGIC UNIT CODE:
DATUM OF ELEVATION: SEA LEVEL
MAP NAME: ORO BLANCO
SCALE: 15 MIN
DOMAIN: NAT FOREST
TYPE OF MINERAL HOLDINGS:

MINE MAP REPOSITORY:
TYPE OF EVALUATION: M
EVALUATOR: ADMR
YEAR OF INFORMATION ENTRY: 1978
MAINTAINING FIELD CENTER:
INTERMOUNTAIN
MINERAL PROPERTY FILE:
CORE LIBRARY:
MINES IDENTIFICATION:
GEOLOGICAL SURVEY CRIB:
LAST MILS MODIFICATION:
NOV 29, 1979
LAST DEPOSIT MODIFICATION:
NOV 29, 1979

--PUBLIC LAND SURVEY--

PRINCIPAL MERIDIAN:
GILA & SALT R
TOWNSHIP: 023 S
RANGE: 011 E
SECTION: 19
SECTION SUBDIVISION:
NW 1/4, SW 1/4,
SURVEY STATUS: SURVEY

>>>> COMMODITY - DATA SET <<<<

RECORD NO.	COMMODITY	MODIFIER	MARKETABILITY	STANDARD INDUSTRIAL CODE	DATE OF LAST MODIFICATION
01	GOLD		COPRODUCT		NOV 29, 1979
02	SILVER		BYPRODUCT		NOV 29, 1979
03	LEAD		BYPRODUCT		NOV 29, 1979
04	COPPER		PRIMARY		NOV 29, 1979
05	ZINC		BYPRODUCT		NOV 29, 1979

>>>> OWNERSHIP - DATA SET <<<<

RECORD NO.	NAME OF OWNER	STATUS	PERCENT OF OWNERSHIP	LOCATION OF HOME OFFICE	YEAR OF INFORM.	DATE OF LAST MODIFICATION
01	GOODWIN	UNKNOWN	%	USA ARIZONA	1976	NOV 29, 1979
02	SANDERS	UNKNOWN	%		1975	NOV 29, 1979

>>>> BIBLIOGRAPHY - DATA SET <<<<

SET REFERENCE	LINE NO.		
	001	INDEX OF MINING PROPERTIES IN SANTA CRUZ CTY	???????
	002	SANTA CRUZ CTY RECORDER'S RECORDS	???????
%	003	COE AND VAN LOO PRIVATE RECORDS	???????
	004	ADMR File Commodore Mine	

ON THE BORDER OF THE RICH WEST COAST OF MEXICO

Miller's Assay Office

Hugo W. Miller, Owner
Registered Assayer & Mining Engineer
Purchaser of Ores & Gold or Silver Bullions
Established 1913
233 Grand Ave. Nogales, Arizona

November 1, 1937

PRELIMINARY CYANIDE TEST ON SILVER ORE

from The Commodore Mine

A. E. Saunders, owner.

Method: The sample presented was crushed to pass 1/8 inch screen opening. 700 gs. was treated with 2000 ccs. of cyanide solution with equivalent strength of 4 lbs. sodium-cyanide per ton of water. Contact was made in a 3 liter glass bottle with frequent adgitations equivalent more or less to percula-tion. Time of contact was six days or exactly 147 hours, after which time the solution was decanted and bottle refilled with water, again decanted, dried, and the tails assayed, which showed the following results.

Assays:

Heads:	0.04	ozs.	Gold.	6.1	ozs.	silver	per	ton.
Tails:	0.01	"	"	2.6	"	"	"	"
Extraction:	0.03	"	"	3.5	"	"	"	"

Percentage: 75% on Gold 57.4% on Silver.

Conclusions: This preliminary test definitely shows that the gold is easily extracted with cyanide; however, the silver would require much finer grinding of the ores to become effectively adapted to this method.

Respectfully submitted,

Hugo W. Miller

REGISTERED ASSAYER
CERTIFICATE EXPIRES
HUGO W. MILLER
DEC. 31, 1937
ARIZONA, U.S.A.

Charges: $5.00

Tucson, Arizona, Feb. 5, 1934.

Mr. A. E. Sanders,
132 Pajarita St.,
Nogales, Arizona.

Dear Sir:

I have tested the ore which you left with me recently with the results which follow:

TEST 1

A sample was ground to minus 35-mesh and treated by flotation. The flotation tailing was then treated on a table. Reagents used for flotation were as follows:

	Lbs. per ton of ore	
Lime	2.0	20
Amyl xanthate	0.10	10
Sodium aerofloat	0.10	10
Pine oil	0.15	15
		75

Referring to the table which follows recoveries of 75.7 per cent of the gold and 62.6 per cent of the silver were affected, the grade of the rough concentrate being satisfactory. It is probable that higher recoveries could be obtained with finer grinding but the size of grinding, you will remember, was fixed by your suggestion. It is my opinion that this ore would be classed as very favorable ore for flotation treatment.

Flotation and table.

	Weight grams	Tons in 100	Assays Gold	Assays Silver	Ounces Gold	Ounces Silver	Per cent Gold	Per cent Silver
Heads	505.0	100.0	0.28	15.35	27.88	1535	100.0	100.0
Flot. Conct.	18.6	3.68	5.73	261.2	21.09	961	75.7	62.6
Table Conct.	17.2	3.42	0.22	17.6	0.75	60.2	3.0	4.0
Table Tailing	469.2	92.90	0.065	5.5	6.04	511.0	21.3	33.4

TEST 2

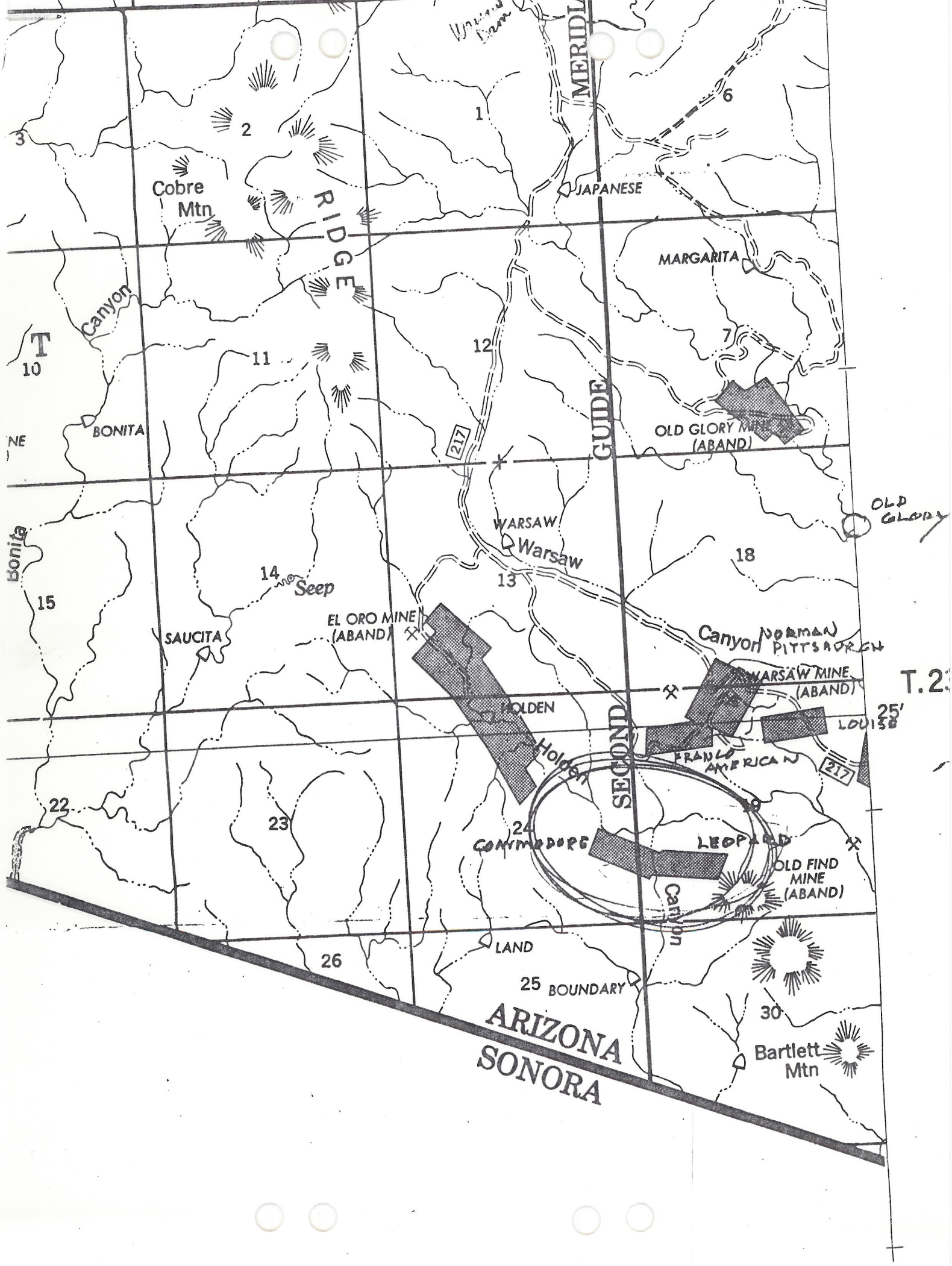
A sample ground to minus 35-mesh was treated on a table with the results which follow. The recoveries amounted to 19.0 per cent of the gold and 28.2 per cent of the silver.

Roughing by table

/	Weight, grams	Tons in: 100	Assays Gold	Assays Silver	Ounces Gold	Ounces Silver	Per cent Gold	Per cent Silver
Heads	750.0	100.0	0.25	15.35	25.00	15.35	100.0	100.0
Table Conct.	52.5	7.0	0.68	61.8	4.76	4.33	19.0	28.2
Table Tailing	697.5	93.00	-	-	-	-	81.0	71.8

Yours very truly,

T. S. Brown


MERIDIAN
GUIDE
SECOND
RIDGE
Cobre Mtn
Canyon
JAPANESE
MARGARITA
BONITA
OLD GLORY MINE (ABAND)
OLD GLORY
WARSAW
Warsaw
Seep
EL ORO MINE (ABAND)
SAUCITA
Canyon
NORMAN
PITTSBURGH
WARSAW MINE (ABAND)
HOLDEN
Holden
LOUISE
FRANCO AMERICAN
COMMODORE
LEOPARD
OLD FIND MINE (ABAND)
Canyon
LAND
BOUNDARY
Bartlett Mtn
ARIZONA
SONORA
T.2
217

TITLE:-

"Commodore" Patented in 1[illegible] was sold for taxes in 1929, State bought it in as no other bidders and held it three years, then the board of Supervisors or Treasurer advertised it for sale in 1933- I purchased it from board of supervisors in 1935, securing State Deed to same.

"Arizona" Claim purchased and has assessment work done.

Silver Eagle Groups Nos. 1-2-3-4-5-6 & 7 Located by me under "Lode Mining Claims" Assessment work not completed.

Title to all of the above described properties in A. E. Sanders.

Location: In Oro Blanco Mining District, Santa Cruz County, Arizona. 41 Miles from Railroad. (34 miles of road very good--6 Miles mountain road--Mine located about 1 mile from any road.

General: I have no records as to the former operations,(Only Verbal) property was formerly operated in the late 80's by a Col. Holton, who died some 40 years or more ago, leaving no heirs, (his property which was considered one of the best in the district was also worked by the Spanish padres, some 150 to 200 years ago, their working have never been explored by me and practically all of their dumps have been washed away, but do not think that their operations were very extensive) after Col. Holton death the property was finally taken over by a Lotherwood, (sheriff in Pima County) who also, died about 25 years ago, but the property was never worked after the death of Col. Holton and as taxes were not kept up by Lotherwood the property was finally taken over by the state and resold. About one mile south of this property is the La Union mine in Old Mexico, where I understand that never millions in silver and gold have been extracted, and the ore in the La Union is of the same nature as in the above described properties.

I spent over $6,500.00 in developement and experimental work during 1934 on this property and have on the dumps approximately 3,000 tons of ore that will run over $10.00 per ton. During this development work I shipped 4 cars of ore to the El Paso smelter, which was packed out to the highway on burrors and then trucked to railroad. I have had flow sheet made by the University of Arizona and Dean Chapman reports it a very favorable flotation ore. A test was also made by the Eagle Lead & Pitcher Co. (who are carrying on extensive operations about 3 miles from our property) and they reclaimed over 80% of the Gold & Silver Values on their flotation, the ore in general (from the assay I have had made) will run about 15 ounces of Silver and .10 Gold a small percentage of lead and copper, the test made by the University of Arizona and Eagle Lead & Pitcher Co. are slightly higher than this.

Camp: There is no camp on the property at present and would cost approximately $500.00 to have it equipped.

Water: There is a small stream of water running in from of the property at the present time (which is the dry season) the mine is also making a small amount of water and there are several good sites for the

ASSAY AND SMELTER RECORDS.

	oz. Silver	oz. Gold	
500 Pounds of Dump to University of Arizona	15.35	.28	
Eagle Lead & Pitcher Co. of Ruby made test (I did not have or ask them to do this and did not know they had made it until Mr. Norton, their General Manager advised me of the fact)	13.00	.15	
Car #82097--El Paso Smelter-Not assorted	28.6	.05	Copper 0.23%
Car #153280 do Asst Slightly	38.6	.07	Copper 0.30%
Car #83674 do do	44.1	.08	Copper 0.37%
Car #28837 do Dump	17.0	.04	Copper 0.12%
Assay Dump Fines	11.0	.10	
Assay Dump Coarse	14.0	.10	
Assay--High Grade in end of upper Tunnel	45.80	.15	
Assay--General upper tunnel in end	16.20	.12	
Gray Streak--Upper tunnel about 18 inches	24.40	.10	
Concentrating test on crude flotation.....	143.20	.18	
High Grade only small amount found on side of pillar	201.20	.22	
Capping as reported	9.80	.08	Will run 3 to 4% copper.