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02/16/88

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BLACK DIAMOND MINE

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 69B

LOCATION: TOWNSHIP 23 S RANGE 11 E SECTION 19 QUARTER SE
LATITUDE: N 31DEG 24MIN 11SEC LONGITUDE: W 111DEG 14MIN 59SEC
TOPO MAP NAME: ORO BLANCO - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

GOLD
SILVER

BIBLIOGRAPHY:

ADMMR BLACK DIAMOND MINE FILE
ADMMR GEOLOGY REPORT, KNIGHT LOUISE,
"STRUCTURE & MINERALIZATION OF THE ORO
BLANCO DISTRICT"
AZBM BULL. 137, P. 188 (TRES AMIGOS)

BLACK DIAMOND MINE

SANTA CRUZ COUNTY
Oro Blanco DISTRICT
T23S R11E Sec 19

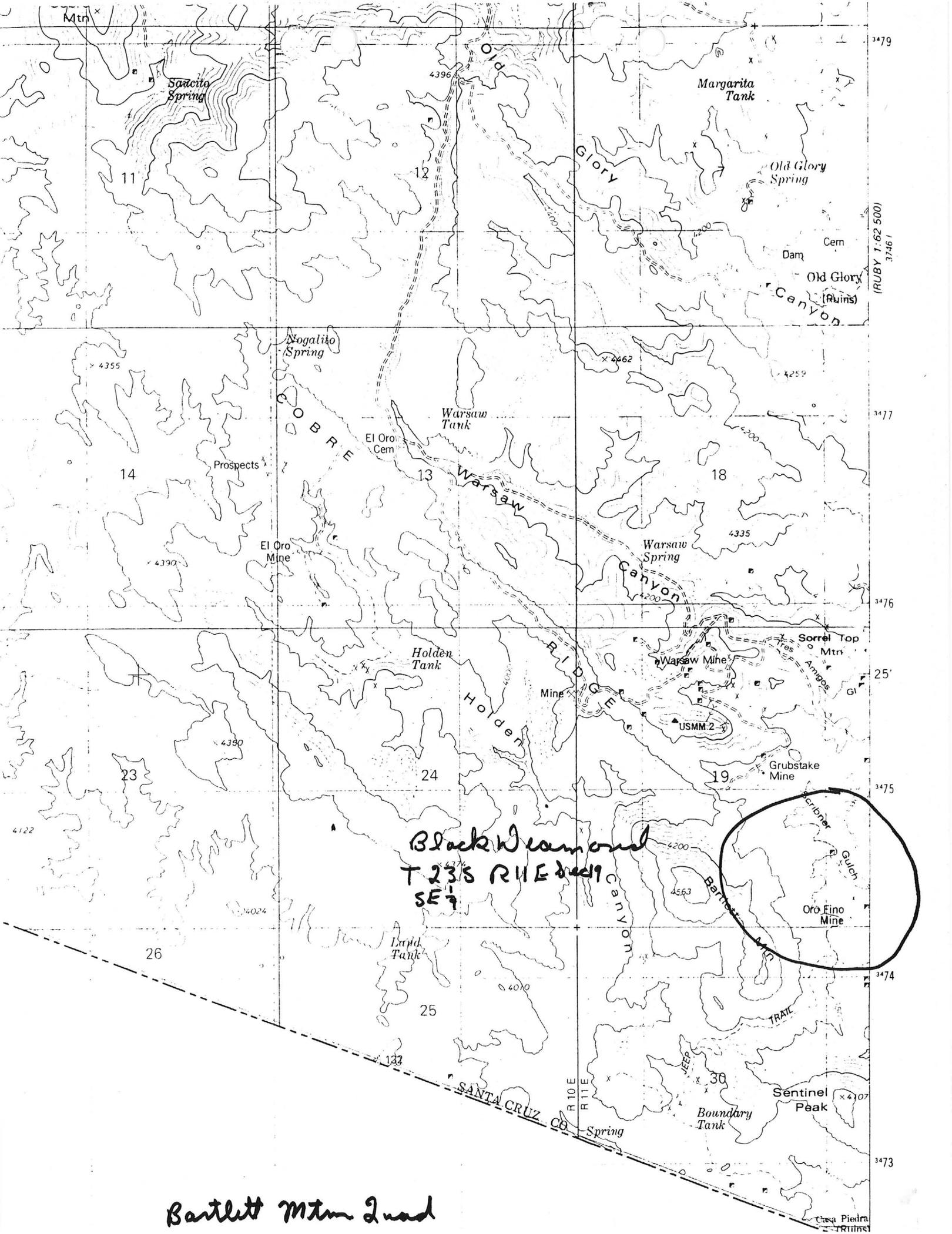
AKA: Romeo Group

MILS Santa Cruz Index #217B

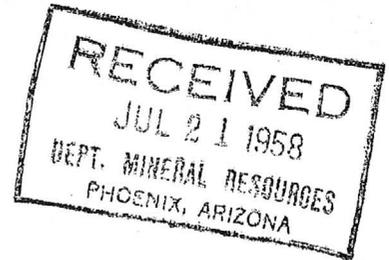
Geology Report - Knight, Louis H. Jr., 1970, "Structure and Mineralization
of the Oro Blanco Mining District"

ABM Bull. 137, p. 188 (Tres Amigos)

Bartlett Mtn Quadrangle Map (Included in file)



ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA



July 14, 1958

To the Owner or Operator of the Arizona Mining Property named below:

Romeo Group (Santa Cruz Co.)

(Property)

(ore)

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

Frank P. Knight

FRANK P. KNIGHT,
Director.

Arivaca, Ariz.
July 17, 1958

Mr. Knight:

Enc: Mine Owner's Report

The above-named Romeo Group is now non-existent - formerly owned by my father, A. H. Noon. So remove from your file any data you have concerning these mines and toss in the waste basket. Some of the claims of the group - ten in all - were sold; others were abandoned.

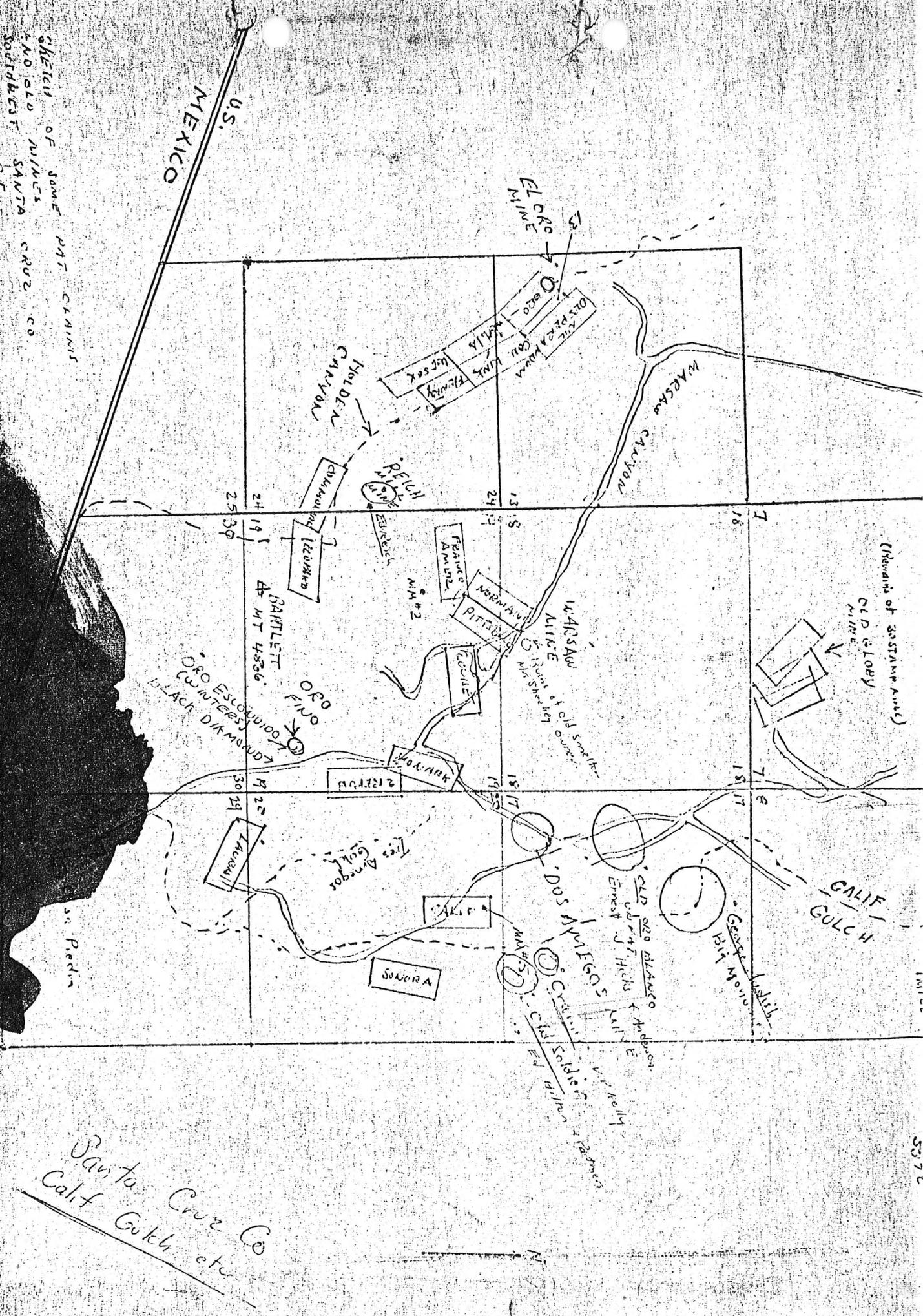
Thanks for the interest of your Dept.

*copy mailed
to AAG
7/21/58*

(y.c.) Fred C. Noon

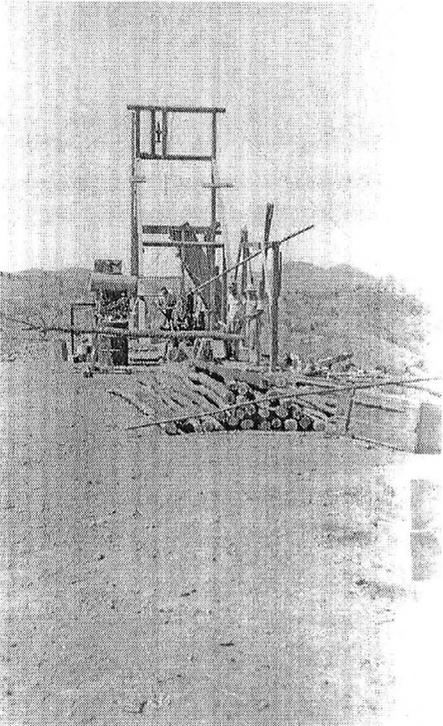
U.S.
MEXICO

SKETCH OF SOME PAT CLAIMS
IN OLD MINES
SANTA CRUZ CO
SOUTHWEST BY G.I.
JAN. 69 BY G.I.
FROM S.X. COUNTY ASSLS. 5
USGS MAPS

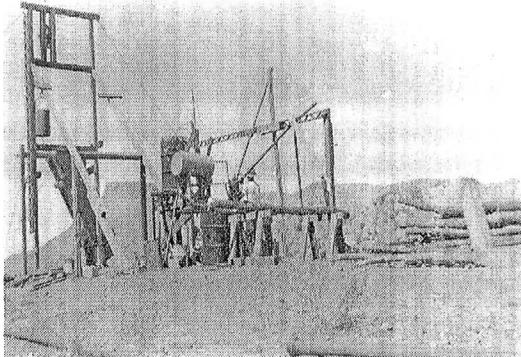


Santa Cruz Co
Calif Gulch etc

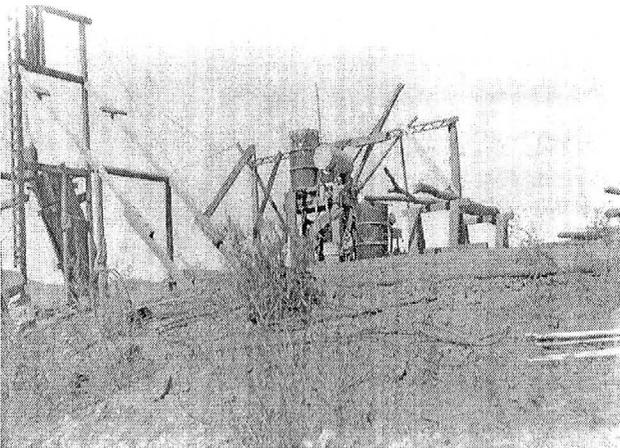
Black Diamond



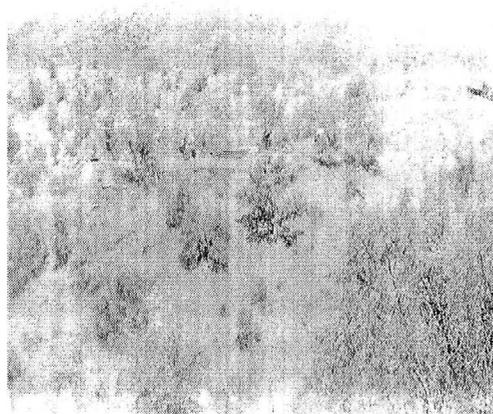
A-10-67



A-10-68



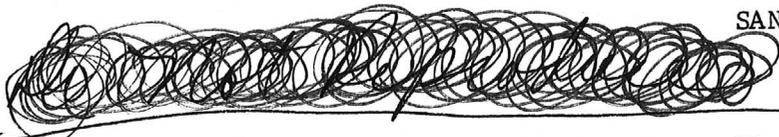
A-10-69



A-10-70

BLACK DIAMOND MINE

SANTA CRUZ COUNTY



Mine visit to Black Diamond Placer - owners - Mr. and Mrs. Henry Wheeler were there.
GWI WR 11-11-67

Mine visit to Black Diamond mine - Mr. Wheeler has man working but did not see him.
GWI WR 3-9-68

The only work observed at the Black Diamond mine of Henry Wheeler was assessment work.
GWI QR 9-1969

Telephone call - Mr. Henry Wheeler that he sold Black Diamond to Dave E. Brodigan.
GWI WR 3-29-71

Mr. Dave E. Brodigan quit claimed the Black Diamond to Wayne Winters, Tombstone,
Arizona, sometime during 1974. VBD 3/4/75



ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Personal visit and information from Mrs. Wheeler
By phone.
Address: _____
2. Mine: Black Diamond 3. No. of Claims - Patented 2
Unpatented 10
4. Location: Just east of Bartlett Mt.
5. Sec 19, 20, 29, 30 T 23S Range 11E 6. Mining District Oro Blanco
7. Owner: Henry H. Wheeler
8. Address: 5632 Julius Strav - Tucson, Arizona
9. Operating Co.: _____
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Au 14. No. Employed: _____
15. Mill, Type & Capacity: Small wet gravity mill
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: _____

18. Misc. Notes: _____

Date: May 6, 1969

G. W. Irvin
(Signature)

G. W. Irvin
(Field Engineer)

COMMODITY INFORMATION

COMMODITIES PRESENT C10 < AG, APB, CU, ZN, ... >
ORE MINERALS C30 < GALENA, PYRITE, SILVER, CHALCOPYRITE, ... >
COMMODITY SUBTYPES C41 < ... >
GEN. ANALYTICAL DATA C43 < DUMP ASSAY: 16% PB, .15% CU, 3 OZ/TON AG, 0.4 OZ/TON AU >
COM. INFO. COMMENTS C50 < ... >

* SIGNIFICANCE

MAJOR PRODUCTS MAJOR < ... >
MINOR PRODUCTS MINOR < ... >
POTENTIAL PRODUCTS POTEN < ... >
OCCURRENCES OCCUR < ... >

* PRODUCTION

PRODUCTION YES (circle) PRODUCTION SIZE S M L (circle one)
PRODUCTION: (circle one) NO (circle one)

* STATUS

EXPLORATION OR DEVELOPMENT

STATUS AND ACTIVITY A20 < ... >

DISCOVERER L20 < ... >
YEAR OF DISCOVERY L10 < ... >
PRESENT/LAST OWNER A12 < FRED C. NOON (1954) >
PRESENT/LAST OPERATOR A13 < BLACK DIAMOND GOLD AND LEAD PROPERTIES, INC. (1954) >
EXPL./DEV. COMMENTS L110 < 2 PATENTED AND 12 UNPATENTED CLAIMS >

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 < VEIN >
DEPOSIT FORM/SHAPE M10 < TABULAR >
DEPTH TO TOP M20 < ... >
DEPTH TO BOTTOM M30 < ... >
DEPOSIT SIZE M15 < SMALL > M16 < MEDIUM > M17 < LARGE > (circle one)
STRIKE M70 < NNE - SSW >
DIRECTION OF PLUNGE M100 < ... >
DEP. DESC. COMMENTS M110 < QUARTZ - SULFIDE VEIN >

DESCRIPTION OF WORKINGS

Workings are: SURFACE M120 < ... > UNDERGROUND M130 < ... > BOTH M140 (circle one)
DEPTH BELOW SURFACE M160 < 160 >
LENGTH OF WORKINGS M170 < ... >
DESC. OF WORK. COM. M220 < SEVERAL OLD SHAFTS, ADITS AND OPEN CUTS >

GEOLOGY

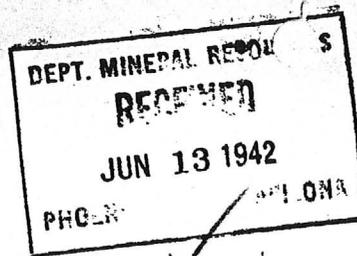
AGE OF HOST ROCK(S) K1 < E.C.B.F.T. >
HOST ROCK TYPE(S) K1A < SANDSTONE, SILTSTONE, AND LIMESTONE >
AGE OF IGNEOUS ROCK(S) K2 < L.T.E.R.T. >
IGNEOUS ROCK TYPE(S) K2A < PORPHYRITIC RHYOLITE AND TUFFACEOUS RHYOLITE >
AGE OF MINERALIZATION K3 < E.C.B.F.T. >
PERT. MINERALS (NOT ORE) K4 < QUARTZ >
ORE CONTROL/LOCUS K6 < QUARTZ VEIN IN FRACTURE OR FAULT ZONE CUTTING LIMESTONE >
MAJ. REG. TRENDS/STRUCT. N6 < NE AND NW-TRENDING FAULT ZONES; LIMESTONE IN GENERAL, IS OVERLAIN BY >
TECTONIC SETTING N15 < ORO BLANCO FAULT BLOCK >
SIGNIFICANT LOCAL STRUCT. N70 < NW-TRENDING FAULT ZONE; ONLY LIMESTONE SEEN IN AREA OUTCROPS IN A >
SIGNIFICANT ALTERATION N75 < MINOR >
PROCESS OF CONC./ENRICH. N80 < SECONDARY ENRICHMENT OF CHALCOPYRITE AND COVELLITE NEAR THE SURFACE >
FORMATION AGE N30 < E.C.B.F.T. >
FORMATION NAME N30A < ORO BLANCO FORMATION >
SECOND FM AGE N35 < ... >
SECOND FM NAME N35A < ... >
IGNEOUS UNIT AGE N50 < L.T.E.R.T. >
IGNEOUS UNIT NAME N50A < UNNAMED RHYOLITE DIKES AND PLUGS >
SECOND IG. UNIT AGE N55 < ... >
SECOND IG. UNIT NAME N55A < ... >
GEOLOGY COMMENTS N85 < ... >

GENERAL COMMENTS

GENERAL COMMENTS GEN < ... >

SURVEY OF OPERATING MINES

By: George A. Ballam



ROMEO GROUP

June 9, 1942

20

This group of claims is owned by A.H. Noon, Arivaca. It is located in the Oro Blanco Mining District, about 10 miles SW of the Noon ranch near Arivaca.

Don Dale is leasing the property from Mr. Noon. He is opening up a two foot vein of lead copper values preparatory to sinking a shaft about 100' in order to explore it. This work has just commenced. A compressor is on the property. About one-half mile of road was constructed from the Oro Blanco road.

Contingent upon continued improvement of values, which may be expected on account of favorable geological conditions, Mr. Dale is planning to apply for a development loan.

Two men are working at this mine.

George A. Ballam

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Black Diamond Mine

Date June 4, 1954

District Oro Blanco District --Santa Cruz Co. Engineer Axel L. Johnson

Subject: Field Engineers Report ----Personal Visit & Information from Walter Brown.

Location Sections 20 and 29 ----T 23 S ----R 11 E.

Go south from Arivaca on the Arivaca-Ruby road. About 1 mile before reaching Ruby, turn right (south), and drive about 5 miles until reaching the Oro Blanco camp and mill, then continue for about one more mile to the mine. Last mile of road quite steep and rough.

Number of Claims 1 patented claim and 10 unpatented claims.

Owner Fred Noon, Box 63, Ruby Star Route, Tucson, Ariz.

Lessee Leslie E. Moore, Southgate, Calif.

Sub-Lessee and Operators Walter Sims, G. F. Sturdevant, and Walter Brown, Box 65, Ruby Star Route, Tucson, Ariz., Dr. E. B. Benson of Tacoma, Wash., and Ernie Graber ---- a partnership of 5 persons, each owning a 1/5 interest.

Lease with option to buy, providing for 10 % royalty.

Minerals and Metals Gold and Silver, principally Gold.

Number of Men Working 3 men ----day shift only.

Production Rate None, as yet.

Ore Values Diamond drill hole showed rich pocket of Gold.

Ore in Sight No ore in sight.

Milling Facilities None.

Present Operations Operators are engaged in sinking a vertical shaft ----2 compartment vertical shaft, 4' x 6' in clear. The shaft is now down to a depth of 25 ft., and the operators expect to sink the shaft down to a depth of at least 155 or 160 ft. in order to intersect a high grade drill sample of a diamond drill hole put down in 1949 by the lessee, Mr. Moore. The shaft is calculated to intersect this high grade sample at a depth of 152 ft. The diamond drill hole was put down at an angle of 46 degrees, and showed a 4 ft. layer of high grade gold ore at that angle (equiv. to 2.83 ft. vertical). It was reported that ~~this sample assayed~~ a sample from this ore showing assayed \$3,000 per ton in Gold. Work started very soon after the sub-lease was signed about 2 months ago. Actual sinking of the shaft started about 2 weeks ago, and the progress has been about 2ft. per day.

Old Workings There are 2 old shafts, several old adits, and several old open cuts on the property.

Diamond Drill Holes 8 diamond drill holes were put down by the lessee, Leslie E. Moore in 1949. Results of the diamond drilling are held confidential, except for the showings on the one drill hole, mentioned in the previous paragraph.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Black Diamond Mine

Date Aug. 11, 1954.

District Oro Blanco Dist., Santa Cruz Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report ----Inf. from G. F. Sturdevant, and personal visit.

Location See my report of June 4, 1954.

Number of Claims 2 patented claims & 12 unpatented claims.

Owners Fred C. Noon, et. al, Box 63, Ruby Star Route, Tucson, Ariz.

Lessees Black Diamond Gold and Lead Properties, Inc.
Leslie E. Moore, Gen. Mgr., 9420 State St., South Gate, Calif. --Leased in 1949.

Sub-Lessees and Operators Gaeton F. Sturdevant, Walter N. Sims, and Walter N. Brown,
Dr. E. B. Benson, and Ernie Graber, a partnership of 5 persons.
Address Black Diamond Mine, Box 65, Ruby Star Route, Tucson.
Sub-lease, dated Feb. 11, 1954, calls for 10 % royalty with option to buy.

Minerals and Metals Gold and silver, principally gold.

Number of Men Working 3 men-- day shift only.

Production Rate No ore production yet.

Ore Values Diamond drill hole put down in 1949, showed a rich pocket of gold, reported to have assayed \$3,000 per ton in values.

Present Operations See report on this property under date of June 4, 1954.
Shaft is now down to a depth of 110 ft. Operators expect to sink the shaft down to a depth of about 160 ft. to intersect the high grade pocket of gold ore. Operators have calculated that they will reach this pocket at a depth of 153.28 ft. Pocket intersected with diamond drill hole for a length of ~~18~~ 4' -- 2", showed about \$3,000 per ton in ore values. The other two dimensions of the rich pocket is, apparently not known. Progress of the shaft is about 2 ft. per day. Very hard andesite rock is encountered in the shaft, which slows up the progress. Equipment used in the sinking operations are as follows:

- 1 cylinder Fairbanks Morse Hoisting Engine.
- 1 ---210 c.f.m. Schramm Air Compressor
- 1 Ventilation fan with tubes.
- Copco ~~xx~~ drilling equipment.

REPORT

BLACK DIAMOND GOLD & LEAD
PROPERTIES, INC.

Oro Blanco Mining District
Santa Cruz Co., Ariz.

August 22, 1949

By T.P. Lane, E.M.

LOCATION

The mining claims of the Black Diamond Gold and Lead properties Inc., are located in the Oro Blanco mining district in the Western part of Santa Cruz County, Arizona. The property is some 75 miles by road ~~South~~ Southwest from Tucson, Arizona and approximately 35 miles by road Westerly from Nogales, Arizona. The road from Tucson is paved highway for 38 miles and then graded hard surfaced road except the last 7 miles. This last portion of the road is unimproved and in very poor condition and barely passable for passenger cars. The road from Nogales is graded and hard surfaced except for this same last 7 mile section. Amado, a station on the Southern Pacific Rail Road, is the nearest rail point and is 34 miles Northeastly by road from the mine.

The topography of the region is ruggedly mountainous with altitudes ranging to 4900 feet. Elevation at the Black Diamond camp is approximately 3600 feet.

Vegetation is sparse except in the bottom of the canyons. Several of the canyons carry a small amount of water during part of the year but in general the region is arid and the infrequent rain storms often occur as cloud bursts causing flash floods with rapid run-off down the slopes and canyons.

PROPERTY

The property comprises one patented and 10 unpatented lode claims (see claim map accompanying this report). The claims are held by the present operators on a long term lease with option to purchase agreement from the owner.

HISTORY

Records of mining in the district date back to the early Seventies. In places in the district there is evidence of very old Spanish activity. Until comparatively recently interest in the district was confined to the gold ores with their lesser silver content. The period of greatest activity and production was in the late eighties and early nineties when some 6 or 8 mills ranging from 5 to 40 stamps were built in the district. Among the better known producers of that period were the Montana, Austerlitz, Old Glory, Oro Blanco and Tres Amigos. The last two mines lie immediately north of the holdings of the Black Diamond lode and Gold Properties Inc.,

In recent years the Montana mine at Ruby, was operated for a time by the Goldfield Consolidated Mines Exploration Company. The Eagle Picher Mining and Smelting Co., acquired the property in 1928 and developed a large body of lead zinc ore carrying appreciable amounts of gold and silver. This company built a 500 ton mill and operated at capacity for many years, closing down when the ore body was exhausted shortly prior to the start of the recent world war. The Montana mine is approximately 3 miles distant from the Black Diamond mine.

Mr. Leslie Moore a principal in the present Black Diamond undertaking operated the Oro Blanco, Tres Amigos and Dos Amigos mines for six years before the war. He shipped a considerable quantity of gold ore during that period and built a mill on the Oro Blanco which he operated a short time before selling his interests.

The present work on the Black Diamond and affiliated claims was begun somewhat over a year ago by a partnership group consisting of three partners, the principal being Galen Moore, owning a 1/2 interest, Mr. Leslie Moore, father of Galen Moore, acts as treasurer and director of the operations. Following the expenditure of somewhat over \$23,000.00 the enterprise was incorporated in July of this year (1949) under the laws of the State of Arizona, and permission to issue and sell stock was obtained from the Corporation Commission of this State.

GEOLOGY AND DEVELOPMENT

The geology of the district is quite complex. A great variety of rocks is present and these have been subjected to much movement and change with the result that it is extremely difficult to make a close classification of many of the rock types and to arrive at a clear understanding of the various relationships.

The principal rocks in the immediate vicinity of the Black Diamond mine are rhyolite and andesite. Next in quantity are quartz monzonite and quartz diorite. These rocks are all generally coarse grained to porphyritic in structure. Some patches of shale and tuff are noted as well as occasional thin fine grained dark intrusive dikes. The only sedimentary rocks noted were a conglomerate and a blue-grey limestone. The conglomerate, which is fairly abundant, is composed of large angular fragments of igneous rocks and resembles a volcanic breccia in many respects. The only limestone seen in the area outcrops in a shallow gulch on the southern end of the Black Diamond claim. Except for this small exposure the limestone is overlain by andesite.

The principal gold production in this part of the district has been made from a series of steep dipping veins, most of which strike in a general N-S direction. The veins occur as fracture or shear zones filled with fragments of country rock and some quartz held together with a gouge of hematite and limonite, often containing considerable manganese. Better gold values are commonly found in soft vein material with little silification. Several of the veins in the Southern end of the district contain an important amount of lead together with small amounts of copper. Overburden is generally not heavy and vein outcrops are numerous. The zone of oxidation in the district is shallow and sulphides usually appear at depths of 10 feet or less.

A large number of shallow prospect openings are scattered over the extensive area of the claims of the corporation. With the exception of the old No 1 shaft and the recent work of the corporation in the south portion of the Black Diamond claim the work has all been done in the various gold veins in the central and north part of the property. Some small production has been made from several of the gold workings, most notably on the Tres Amigos Lead No 2. claim at the point where the Monarch Vein of the adjoining Monarch patented claim (Not owned by the corporation) enters this ground. The Monarch vein was worked rather extensively for 5 years prior to the war and much high grade ore was produced. A production record was not available at the time of this visit, but large stoped-through openings on the surface were evidence of past mining on a substantial scale. It is said that at depth the stoping reached the side line of the Tres Amigos Lead No 2 claim.

The district is rather remote and transportation difficulties in the past were serious handicaps. For this reason and also because of the low value of lead which prevailed until quite recently the lead showings at various points on the property were not considered worthy of further investigation. Two cases in point are described hereunder:

Near the north end of Romeo No 3 claim a short tunnel with a winze near its end was driven on a vein having a strike of N. 10 E. and dip of 65 W. The workings are partially caved and the winze largely filled with debris. The vein could be seen however to have a width of approximately 5 feet with well defined smooth walls. The dump showed considerable mineralization, largely oxidized, and a sample taken by the writer of this report assayed as follows:

Oz Au	Oz Ag	% Pb	% Cu
.35	3.22	7.4	1.4

The sample represented a stock pile of 6 to 8 tons. Some ore is reported to have been shipped from here and the small total volume of the dump compared with the size of the opening confirms this report. Since the ore was packed out of this location and trucked a long distance it must be assumed that only high grade material was shipped.

On the Romeo No 2 claim a shaft was sunk near the north end on a vein approximately parallel in dip and strike and having the same general characteristics as the vein described above in the Romeo No 3 claim. The shaft is 30 feet deep. A sample of a select pile of several tons on the dump assayed as follows:

Oz Au	Oz Ag	% Pb	% Cu
.04	3.04	16.3	.15

Some 8 to 10 tons of silicified material, evidently second class ore is piled on the dump. It is claimed that a shipment of ore was made from here, and the size of the small dump appears to support this claim.

The most serious work which has been done on the property was done by the present operators during the past year on the Black Diamond claim. A camp was established, equipment purchased, a shaft (No 2) was sunk and some drifting done, an old shaft (No 1) was partially cleaned out, and some 700 feet of diamond drill holes were put down. Following is a description of the work performed.

No 1 shaft vertical is an old piece of work dating back to around the turn of the century. It is said that the operators, known as the American Lead Company, put the shaft down with the intention of exploring at depth the line showing a short distance south from here. No reliable information is available regarding this work. The shaft is said to be 100 feet deep with one 60 foot drift. The dump showed no mineralization. The present operators cleaned out the shaft down some 30 feet. A mat of timber and muck chokes the shaft at this point which also appears to be the water level.

Shaft No 2, approximately 450 feet Southerly from Shaft No 1, was sunk a depth of 45 feet on a mineralized limestone showing on the bank of a small gulch. A pit several feet deep near the collar of the shaft showed strong lead mineralization in the remnants of the dump. (The main part of the dump has washed away) At the time of this visit the shaft was filled with water to 18 feet from the top and the drifts from the shaft were therefore inaccessible. Some sparse galena mineralization was visible at places in the shaft. Mr. Leslie Moore describes the lower workings as follows:

At a depth of 27 feet a drift was driven 15 feet in a Northwesterly direction. The drift was carried some 12 feet wide and Mr. Moore's sampling of the face showed 6.25 % to 6.75% Pb with around 3 oz Ag and about \$1.00 gold per ton. A 28 foot drift was run in a Northerly direction from the bottom of the shaft. It is said to show only slight mineralization. The material from the shaft workings is mixed on the dump and the dump as a whole shows appreciable mineralization. A general grab sample taken by the writer assayed:

Oz Au	Oz Ag	% Pb	% Cu
.02	.80	2.2	.40

Six diamond drill holes ranging from 35 to 150 feet in depth were put down near the No 2 shaft. These first exploratory holes were pointed in various directions the prime purpose being to prove if possible an extension and directional trend of the mineralization disclosed in the drift from the near by shaft. A blue print accompanying this report depicts the location, inclination, etc., of these holes. All of the holes began in andisite and entered limestone at shallow depths. Hole No 2 penetrated a 74 foot mineralized section. Core recovery was very poor in this section and all the sludges together with such fragments of core as were recovered were combined to make one composite assay for the whole section. There was therefore no core material available for inspection. Mr Moore reports lead sulphide (Galena) mineralization throughout the whole 74 foot section and reports an assay of the composite material of 7.60% Pb with some silver and a small amount of gold. The mineralized section appears to be at about the same horizon as the shaft ore and some 100 to 120 feet Northerly from the face of the drift on the 27 foot level in the shaft.

If the two mineralized areas are related, as seems likely there is indicated here the presence of a low grade lead deposit. Assays in the drift and in the cored section indicate 6 to 7 % lead and \$2 to \$3.00 gold-silver value per ton. This class of material, if proven to exist in sufficiently large volume would constitute profitable ore at the present price for lead.

Significant amounts of lead were encountered in drill holes No 1 and No 5. It is not possible however to correlate these data in any practical manner with the scant data at hand at the present time.

CAMP AND EQUIPMENT

The present operator established a small camp adequate for the preliminary work performed to date. The camp consists of a cook house and 3 cabins, all with cement floors and aluminum sheet roofing and screens etc. Water is obtained from the No 2 shaft from which place it is pumped to a tank on a low ridge above the camp. Major items of equipment at the property are listed as follows:

- 1 International 4 wheel drive reconnaissance vehicle (Army)
- 1 Jeep (Army)
- 1 One Ton Trailer (Army)
- 1 Sullivan No 12 Diamond Drill with heavy duty head, also 8 HP 225 # force pump skid mounted with the Diamond Drill. 400 ft drill rods and estimated \$1,000.00 stock of Diamond Bits.
- 1 No 35 Ingersoll-Rand Sump Pump.
- 1 2000 Watt light plant (Army)
- 1 1000 gal. water tank with 800 feet of connected pipe, assorted sizes.
- 1 Large Electrolux Refrigerator.
- 2 Butane Tanks.

Large assortment of miscellaneous tools including Acetylene Welding outfit, Skillsaw, Electric Drill etc.

Large assortment of valves and pipe fittings and miscellaneous hardware.

PROPOSED WORK

The management proposes to conduct a diamond drilling program which will have as objective the more certain delineation of the ore body indicated in the drilling already done. Then, basing upon the results of the exploratory drilling, a mine development program will be undertaken to block out ore and prepare the mine for production. A final step envisages the construction of a mill of modest capacity, to be enlarged at a later date.

As a preliminary to the above development program some repairs and rerouting of sections of the road will be done, and some additions will be made to the camp housing and facilities. Also, a pick-up truck and a 1 1/2 ton flat rock truck will be purchased. A tentative estimate allows for 10,000 feet of diamond drilling most of which will be done in the Black Diamond claim. It is planned later to do some shallow drilling below the lead showing on the Romeo claims Nos 2 & 3. It is proposed also to test by diamond drilling the area wherein lies the projected junctures of the Monarch vein with another strong vein which courses through the two Republics patented claim.

The mine development program and the mill installation are successive steps following the exploratory drilling, and until the drilling results are known any cost estimates for these steps are necessarily hypothetical and are advanced here only to serve as some sort of base for estimating overall financial requirements. The estimates assume favorable results at shallow depth from the mine development and they assume that satisfactory metallurgical results will be obtained with a coarse grind and gravity concentration. In this connection it is worth noting that the galena is coarse and no other sulphides are present in important amounts. Also a preliminary laboratory test on the material indicates that good results can be achieved by gravity concentration of material ground to 10 M. Proposed capacity of the mill would be around 75 tons per day. It is believed that enough water can be gathered in the near vicinity at small cost to supply a mill of this size assuming careful conservation and reclamation of water. The No 2 shaft makes upwards of 4000 gallons per day and the flow was increasing as sinking progressed. Further mine development will undoubtedly augment the in flow here. Shaft No 2 contains water and water is available in two shallow shafts on the edge of the wash on the Romeo No 3 claim. Several washes in the neighborhood carry water in the gravel and the canyons near by afford a number of good dam sites.

financial

The ~~total~~ needs for the projected program as outlined above is estimated as follows:

Road		3,000.00
Transportation Equipment:		
Pick-up Truck	1900.00	
1 1/2 Ton Truck	<u>2900.00</u>	4,800.00
Camp		
Cook house addition	1,000.00	
4 cabins (rebuilt adobe)	3,000.00	
Change house	2,000.00	
Cook house equipment	2,000.00	
Change house "	1,000.00	
Light plant	900.00	
cabin equipment	750.00	
Misc'l pipe, wire, etc.	<u>1,350.00</u>	
		12,000.00
Diamond Drilling		
3,000 ft at \$3.50 per ft.		10,500.00
Mine Equipment		10,000.00
Mine Development		
600 feet @ \$25.00 per ft.		15,000.00
Concentrator 75 tons per day		35,000.00
Working capital and contingency reserve		<u>29,700.00</u>
	Total	<u>120,000.00</u>

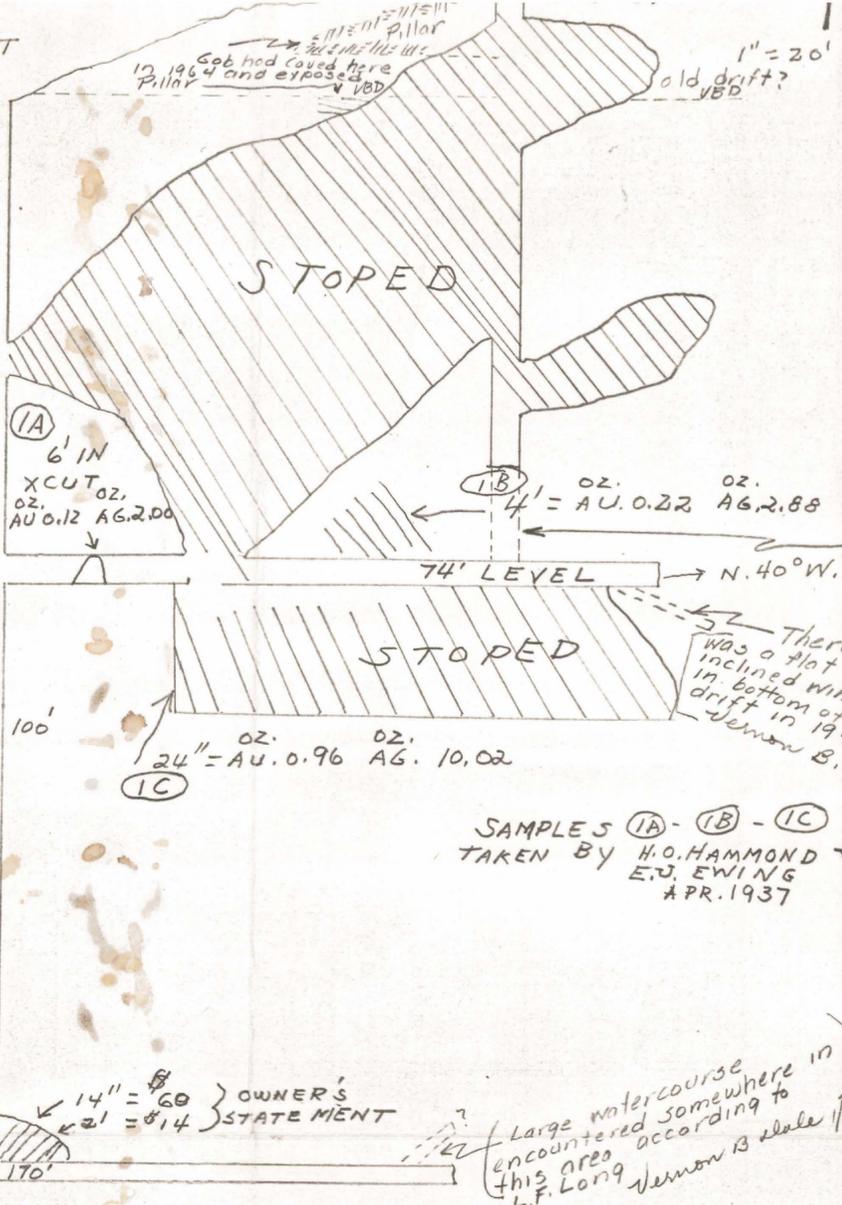
CONCLUSIONS

Work performed during the past year has disclosed an area of low grade lead mineralization near the southern end of the property. Assays from diamond drilling and from shallow shaft workings indicate values of economic importance. The chances for developing a large deposit of lead ore with appreciable silver and gold content appears quite attractive and I would recommend a systematic program of development in this area. The property holds attractive possibilities elsewhere. Samples from shallow workings on two of the numerous prominent veins which course through the property show commercial values in lead (with appreciable amounts of gold and silver); and development of the extension into the corporation's property of the productive Monarch vein also offers attractive possibilities. Exploration at these places and at several other mineralized showings ought to be carried on concurrently with the more serious program proposed for the southern end of the property.

T.P. Lane, E.M.

SECTION

A. SHAFT 170'



NEW DRIFT 3/1/1937

2 1/2 TONS SHIPPED = 1.35 AU. TO H. MILLER NOGALES

(1A) 6' IN XCUT OZ. AU. 0.12 AG. 2.00

SAMPLES (1A) - (1B) - (1C) TAKEN BY H.O. HAMMOND + E.J. EWING APR. 1937

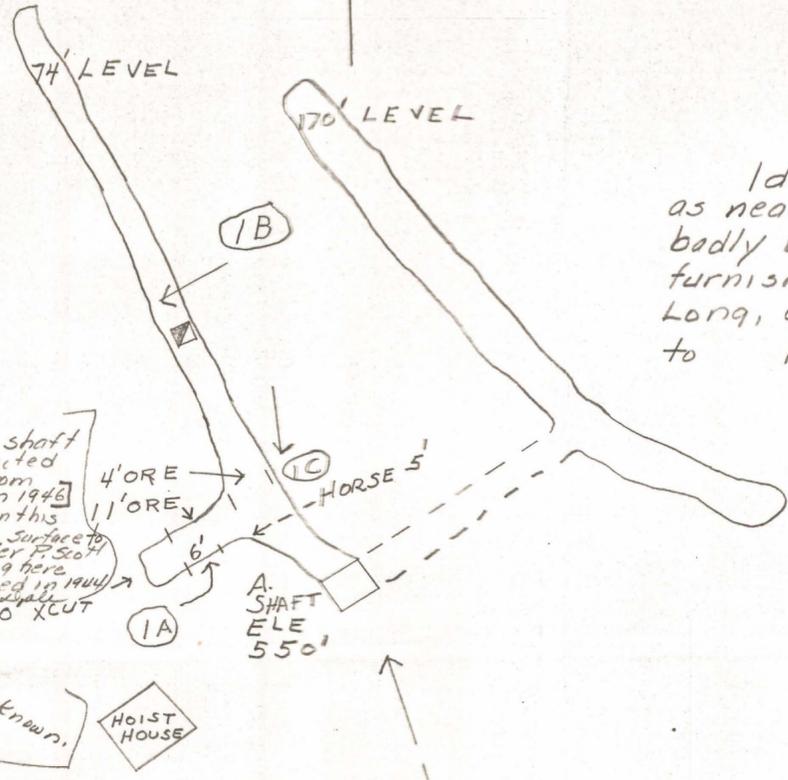
(1B) 4' = AU. 0.22 AG. 2.88

(1C) 24' = AU. 0.96 AG. 10.02

14' = 60 } OWNER'S STATEMENT

Large intercourse encountered somewhere in this area according to L.F. Long Vernon B. Dale 1/9/67

PLAN



1/9/67 Identical tracing as near as possible from badly worn original furnished by Lawrence F. Long, owner from 10/1/50 to 1967.

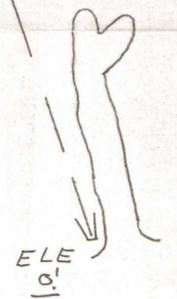
Vernon B. Dale No date or draftsman on map.

This shaft was connected to drift from shaft A in 1946. I went down this shaft from surface to drift. Walter F. Scott was working here when he died in 1944. Vernon B. Dale

HOIST HOUSE

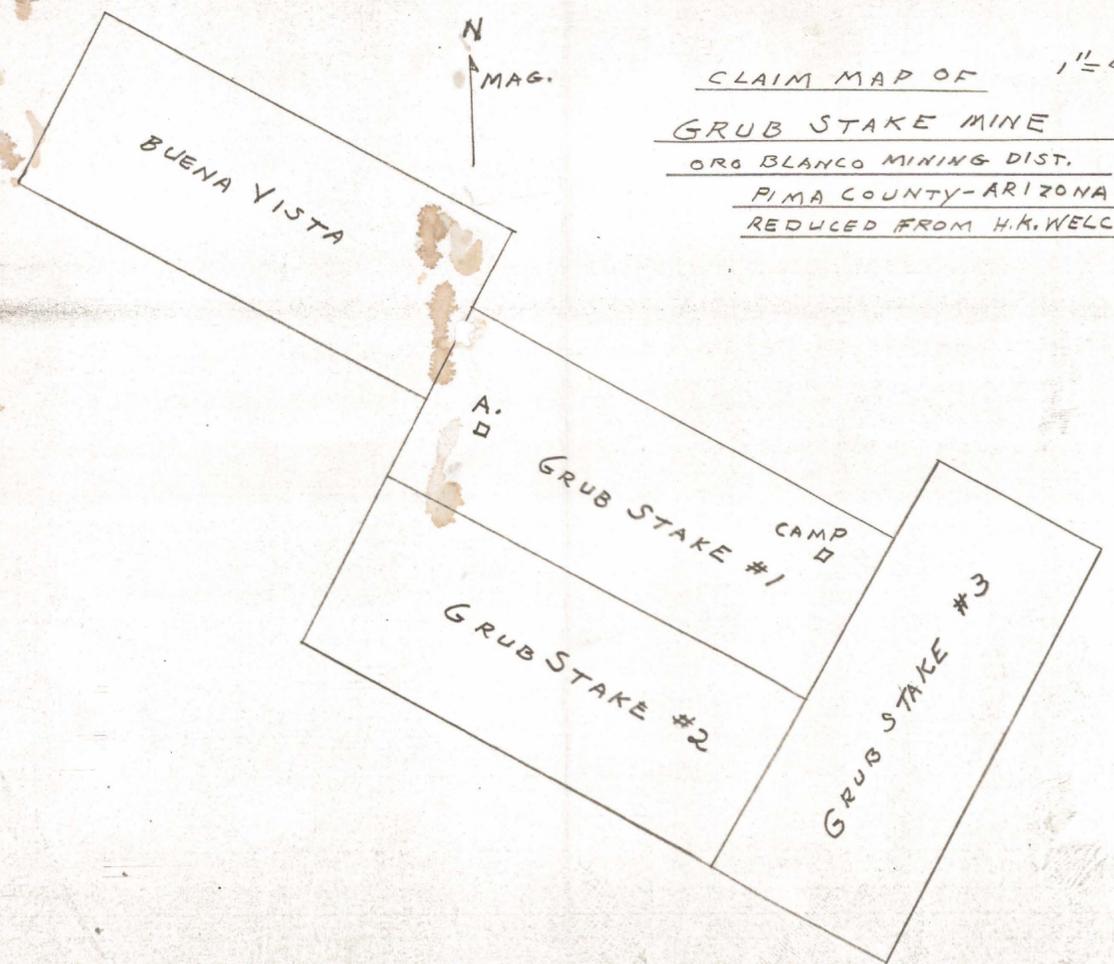
4. 1" = 20'

750'



ELEVATIONS & 750' DISTANCE ESTIMATED BY OWNERS

CLAIM MAP OF GRUB STAKE MINE ORG BLANCO MINING DIST. PIMA COUNTY-ARIZONA REDUCED FROM H.K. WELCH MAP



LIST OF ORE SHIPMENTS FROM ORIGINAL DOCUMENTS IN OFFICE OF TOM K RICHEY TUCSON-ARIZ.

DATE	TONS	OZ. AU.	OZ. AG.	BUYER	CU	FE	LIME	SI.	AL
12/12/36	2.46	0.57	11.38	HUGO MILLER					
5/23/35	26.02	0.77	7.55	MAGMA SMLT.	6.59	5.7	0.8	50.0	16.0
3/20/35	2.81	1.45	13.44	MILLER					
8/4/35	2.74	0.83	9.2						
8/8/35	2.80	0.82	9.5						
8/9/35	5.60	0.67	8.7						
8/10/35	2.85	0.89	8.9						
8/11/35	3.70	0.375	4.5						
8/13/35	4.44	0.345	4.4						
"	2.50	0.35	5.4						
"	4.75	0.20	3.8						
8/14/35	2.52	0.22	3.9						
8/15/35	2.778	0.53?	4.3						
8/17/35	2.21	0.96	9.76						
8/15/35	2.22	0.86	9.7						
8/11/35	2.74	0.97	9.1						
8/11/35	5.60	0.72	6.6						
7/26/35	3.08	0.88	7.0						
7/27/35	3.12	0.34	5.9						
7/28/35	3.00	0.473	5.2						
7/30/35	3.00	0.513	6.7						

BLACK DIAMOND LEAD AND GOLD PROPERTIES, INC.

ORO BLANCO MINING DISTRICT

Santa Cruz Co, Arizona

Scale: 1" = 300'

Aug 18, 1949

