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PRIMARY NAME:COLUMBUS

ALTERNATE NAMES:

COLUMBUS-MONORE DOCTRINE
VANDERBILT GROUP
SUNNYSIDE

MOHAVE COUNTY MILS NUMBER: 88C

LOCATION: TOWNSHIP22 N RANGE17 W SECTION 7 QTR. SW
LATITUDE:N 35DEG 18MIN 37SEC LONGITUDE:W 114DEG 08MIN 41SEC
TOPO MAP NAME:CERBAT - 7.5 MIN

CURRENT STATUS:PAST PRODUCER

COMMODITY:

ZINC-(M) SULFIDE-PRIMARY
SILVER-COPRODUCT
LEAD-BYPRODUCT
COPPER-BYPRODUCT
GOLD-(M) LODE-BYPRODUCT
INDIUM-(M) BYPRODUCT-BYPRODUCT

BIBLIOGRAPHY:

USGS CERBAT QUAD
ADMR MOHAVE CUSTOM MILL PROJ. CARD FILE
HAURY, P.S., USBM RI 4101, P. 37-39, MAPS
ADMR MOHAVE CARD FILE
SCHRADER, F.C., USGS BULL 397, P. 95
DINGS, M., USGS BULL 978-E, P. 147
ADMR COLUMBUS MINE FILE
ADMR NELSON TRANS. TUNNEL RPT., P. 3

COLUMBUS MINE

MOHAVE

I continued on to the 20th Century Mine which adjoins the Pinkham property on the east. The 20th Century mine dump contains a few hundred tons of good quality material in lead, zinc and copper minerals. The ore here contains Indium & selected samples taken contained radioactive material.
VBD WR 6/19/76

VBD

NAME: COLUMBUS

COUNTY: MOHAVE

T 22 N R 18 W SEC. 12?
17 ~~22~~ 77

DISTRICT: WALLAPAI
CERBAT

Mineralization:

Geology:

Type Operation:

Production:

References: 11865397

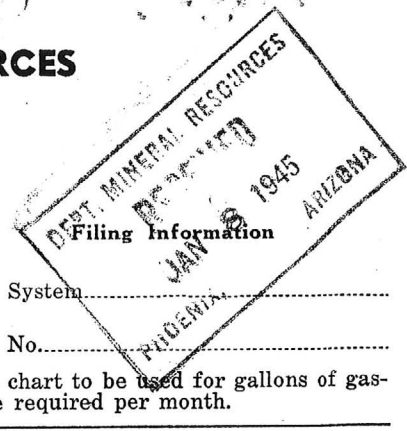
Flid Note mm. Mun & Proc. file index ~~to~~ map (#321)

Mohave County Card File

White copy of Kingman Board of Health
Perk & Hall

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON
ACTIVE MINING PROJECT



Date January 6, 1945
Name of Mine Columbus Mine
Owner or Operator J. H. Hall
Address Chandler Ave.
Mine Location 3 mi west of Kingman

PRESENT OPERATIONS: (check X)
Production.....; Development ; Financing.....; Sale of mine.....;
Experimental (sampling).....; Owner's occasional trip.....;
Other (specify).....

PRODUCTION: Past and Future. Tons
Approx. tons last 3 months none
Approx. present rate per 3 months "
Anticipated rate next 3 months "
If in distant future check (X) here yes

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars		<u>600 mi.</u>	<u>40</u>
Light or Service Trucks			
Ore Hauling Trucks			
Compressors			
Other Mine or Mill Eqpt.			

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.
Gold, silver and zinc & lead

REMARKS:
.....
.....
.....

ARIZONA DEPARTMENT OF MINERAL RESOURCES
By Leota Hassemer

Indium

MC 18

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

oc

Mine *Columbus*

District *Cerbat*

Former name _____

Owner *Nina Unquefort*

Operator _____

President _____

Mine Supt. _____

Principal Metals *Zinc - Gold - Indium*

Production Rate _____

Power: Amt. & Type _____

Operations: Present *Prospecting*

Operations Planned _____

Number Claims, Title, etc. *2*

Description: Topog. & Geog. *Foot hills*

Mine Workings: Amt. & Condition *good*

Date *July 1 - 39*

Location _____

Address *Chloride Ariz.*

Address _____

Gen. Mgr. _____

Mill Supt. _____

Men Employed _____

Mill: Type & Cap. _____

Geology & Mineralization *Fissure Veins*

Ore: Positive & Probable, Ore Dumps, Tailings _____

Mine, Mill Equipment & Flow Sheet _____

Road Conditions, Route *good*

Water Supply *Small amount mine makes.*

Brief History _____

Special Problems, Reports Filed _____

Remarks *Another mine (The 20th Century at Chloride Ariz
is a producer of Indium
address Indium Corporation of America Box 107, Kingman Ariz*

If property for sale: Price, terms and address to negotiate.

S

Signed *E. Hedberg*

Use additional sheets if necessary.

NAME OF MINE: COLUMBUS

COUNTY: MOHAVE W

OWNER: Nina Uncapher, Chloride.

DISTRICT: WALLAPAI

METALS: ZN Au

OPERATOR AND ADDRESS:

MINE STATUS

DATE:		DATE:	
5/1/44	J.H.Hall, Box 276, Chloride	5/1/44	Closed
1/45	X	1/45	Developing & ship.
5/10/43	RFC Loan granted \$16,000 (per Ballam)		
8/18/43	8 Men working		
11/16/43	Developing. Shipping to Midvale.		
1/44	Shipping		
3/1/44	Closed		

(Uncapher)

Nina Unguefort
Chloride, Arizona

deceased

Columbus

COLUMBUS

Au

Mohave

8 - 7 sec 7 T 22 N, R 17 W

J. H. Hall, Chloride

'45

January 8, 1945

War Price & Rationing Board
No. 81.8.1
Kingman, Arizona

Gentlemen:

, We have signed the application of
the Columbus Mine and are enclosing the white
copy herewith.

A copy has been sent to Mr. Holt.

Yours very truly,

Chas. H. Dunning
Director

CHD:LP
Enc.

①

January 4, 1943

Mr. J. H. Hall
Chloride
Arizona

Dear Mr. Hall:

We have just been notified by Mr. W. E. Gohring that your loan on the Columbus Mine has been approved.

This approval was in the amount of \$2000 rather than that in the original request of \$5000. It was considered that this amount would be sufficient to reopen the lower tunnel on the Columbus Vein to expose the zinc sulphide believed to exist there.

That portion of your application dealing with the unwatering and reopening of the No. 2 shaft was not approved for the reason that the extent and condition of the workings were unknown, as was specific evidence relative to the extent and quality of the ore there. In short, no specific goal could be outlined supporting approval of this work by reason of lack of information concerning it.

While the documents which you will sign in order to obtain the actual funds being granted you do not specifically mention the location of the area in which the funds are to be expended, you will understand from the above which portions of the work have been approved and which have been disapproved. Following a discussion with Mr. Gohring he requested that I write and so notify you.

I trust that this will be a most satisfactory loan to you and that the results will be favorable in every way.

Very truly yours,

Earl F. Hastings
Assistant Director and
Projects Engineer

EFH:BA
CC:WB Gohring

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine: COLUMBUS GROUP
District: Wallapai, Mohave Co., Ariz.
Subject:

Date: July 19, 1943
Engineer:

B R I E F R E P O R T

OWNER: Nina Uncapher, Chloride, Arizona.

LESSEE: J. H. Hall, Chloride, Arizona

METALS: Zinc, lead, gold and silver

AREA & LOCATION: This group of mining claims, consisting of the COLUMBUS and MONROE DOCTRINE unpatented claims, is located in Mohave County, Arizona, about 12 miles north of Kingman, from which point property is reached by paved highway 93, which one follows from Kingman for about seven miles north; thence by a fair dirt road east around five miles to property.

RFC LOAN: The property was reopened last Spring, by lessee, by means of a \$2,000 R. F. C. loan. Recently a \$16,000 RFC loan was granted with which to carry out certain development work in the mine.

MINE WORKINGS: Most of the development work has been done on the Columbus claim. There are two tunnels on the vein, one 70 feet above the other and connected by a raise, which continues to the surface. There a number of stopes between the Upper Tunnel and the surface, where, it is reported, a large tonnage of gold-silver ore was mined. The distance from the Upper Tunnel to the surface is about 50 feet. The Lower Tunnel on the vein is 480 feet in length, running from south to north, cutting a northwest-southeast zinc vein.

ORE SHOOT: The said zinc vein now exposed in the Lower Tunnel has a length of 50 feet and a width of 5 feet at each end of the shoot, which disappears to the south-east and northwest into the walls of the Lower Tunnel; so the total length of the zinc vein, or the ore shoot found therein, has not been determined. There is a winze sunk to a depth of 30 feet in the middle of the said ore shoot, which at that point is 10 feet wide.

INSERT C: Since this report was compiled, lessee, J. H. Hall sank a winze about 100 feet deep on the zinc vein exposed in the back end of the Lower Tunnel, and this work proved to be disappointing, as all values "played out" in the bottom workings of said winze. 5/25/44

ORE SHIPMENT: One car load of ore was mined and shipped from the said winze, and another car load is now piled on dump at the mine. Smelter returns on the said car load of ore that was shipped, on June 9, 1943, to the U. S. Smelting, Refining & Mining Co., Midvale, Utah, follows:

Zinc-----	15.2%
Lead-----	1.3%
Copper-----	0.35%
Gold-----	0.08 oz.
Silver-----	3.60 ozs.
Insol-----	17.60%
Iron-----	11.00%
Sulphur-----	12.60%
Lime-----	0.60%

COLUMBUS GROUP

CHARACTER OF ORE: Consists of complex sulphide material, suitable for treatment by selective flotation:

ORE RESERVES: While there are no ore reserves actually blocked out in this mine, PROBABLE ORE may be estimated, from the above figures, at approximately 900 tons, averaging per the car lot shipment, as above set forth, inasmuch as Mr. Hall stated there was no ore rejected in mining the said car load of ore.

ESTIMATED DAILY PRODUCTION: From the above facts, and granted that the said zinc ore shoot will continue downward, as sinking progresses, I would estimate that this property could be put in shape within a period of 90 days to produce not less than 20 tons of milling ore daily; and that within a year, around 50 tons of ore could be produced daily. Also that the grade of ore should approximate in value that of the car lot shipment above mentioned. In other words, as far as we now know, the milling ore from this property should have a value of:

<u>Zn-%</u>	<u>Pb-%</u>	<u>Cu-%</u>	<u>Au-Oz</u>	<u>Ag-oz</u>
15.2	1.3	0.35	0.08	3.60

/s/ Elgin B. Holt
Field Engineer

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

W. H. Hargreaves

Mine ' COLUMBUS, Zn.

Date December 10, 1942

District Wallapai

Engineer Earl F. Hastings *(C)*

Subject: Reconstruction Finance Corporation ✓
Preliminary Development Loan

Docket No.	C-ND-Phx. 107
Date Application Received	December 1, 1942
Date of Field Examination	November 25, 1942
Date of Report	December 10, 1942

1. Name and address of applicant (correspondent):
J. H. Hall, Chloride, Arizona.
2. Character of project and estimated cost thereof:
Zn. Reopen and timber lower tunnel and repair #2 Shaft to expose two veins,
\$5000.00.
3. Location of property:
Wallapai Mining District, Sec. 7, T 22 N, R 17 W, G & S.R.M., Mohave County,
Arizona.
4. Applicant's interest in or ownership of property:
Option Contract from owner on 10% royalty basis, total price \$35,000.00 to be
paid before November 16, 1947 with no monthly minimum.
5. Loan requested:
\$5000.00.
6. Loan recommended:
\$2000.00.
7. Comments:
 - (A) The depth of, and length of lateral workings from, the No. 2 shaft is unknown. Considerable difficulty would probably be encountered in attempting to reopen these workings, and the value of such work cannot be estimated on the basis of the single dump sample presented. This portion of the work is not recommended.
 - (B) The lower tunnel on the Columbus Vein (probably an extension of the Idaho or West Idaho Vein) would be less difficult to make accessible, requiring less labor and critical material. This area has a record of past production and its value can be more readily, physically, determined. It would therefore appear to be the most logical point for investigation.
 - (C) From personal knowledge the upper level is known to have produced a small tonnage of extremely rich gold ore. The origin of this gold is not known and differed from residual values usually found in the veins from which the base metals have been leached. This gold had the appearance of fresh lathe turnings. Its area was localized and its commercial value not commensurate with the interest given it. The ore, however, plainly showed the cavities left by large

December 10, 1942

quantities of sulphide minerals, the kind of minerals were not determined from inspection but assumed to be of the same nature as the sulphide ores noted on the dump at the lower tunnel.

- (D) The assay value attributed to the lower tunnel dump cannot be considered entirely accurate. First it is only a single sample and second it is cut only 4 inches deep. This depth does not avoid the encrusted surface found on dumps composed of sulphide ore, and assay results on the crust varies widely from deeper cuts. This assay should be cut by 1/3 for safety judging from some tests conducted by the writer in attempting to work out a suitable method of preliminary sampling of dumps in the area.
- (E) It is unlikely that 10 to 13 feet of 41.1% zinc will be found in the face of the tunnel, as noted on the map, but it is considered that commercial lead-zinc ores will be found that warrant extraction and further development. This conclusion is based upon continuity and appearance of the vein at the surface, appearance of the dump material, and the habits of deposition of other mines in that area. It is therefore recommended that \$2000.00 be allowed for reopening this tunnel.
- (F) Added to the docket is the report of Elgin B. Holt, Field Engineer, Department of Mineral Resources, dated November 25, 1942.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

Earl F. Hastings
Assistant Director and
Projects Engineer

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine COLUMBUS GROUP Date November 25, 1942
District Wallapai, Mohave County, Arizona Engineer Elgin B. Holt
Subject: Re-application for Preliminary Development Loan
Owner: Nina Uncapher, Chloride, Arizona.
Lessee: J. H. Hall, Chloride, Arizona.
Metals: Zinc, lead, gold and silver.

Area & Location: This group of mining claims, consisting of the COLUMBUS and MONROE DOCTRINE unpatented claims, is located in Mohave County, Arizona, about 12 miles north of Kingman, from which point property is reached by a paved highway, which one follows for about 7 miles toward Boulder Dam; thence by a fair dirt road around 5 miles in length.

R.F.C. LOAN APPLICATION: This property was visited by me on November 12, 1942, in company with J. H. Hall, lessee, who has arranged with R. A. Thurston, Mining Engineer, of Chloride, Arizona, to draw up an application for a preliminary development loan in the sum of \$5,000.

Geology: The country rock of this entire region, embracing the foot hills of the Cerbat Mountains, is composed of pre-Cambrian granite-gneiss complex, intruded at frequent intervals with later quartz-porphry dikes.

Veins: The rock formation mentioned is cut by a persistent main vein striking N. 15 degrees W. and dip 70 E. This vein can be traced for around 3,000 feet and extends into other claims to the north and to the south. Also, part way between the Lower and Upper tunnels this main vein is intersected by another ore-bearing vein striking N. 45 degrees W.; said vein being known as Vein No. 2, on which Shaft No. 2 is located.

Mine Workings: Mr. Thurston states: "Most of the development work has been done on the Columbus claim. There are two tunnels on the vein, one 70 feet above the other and connected by a raise, which continues to the surface. This raise marks the south end line of the Columbus. There are a number of stopes between the Upper Tunnel and the surface, where, it is reported, a large tonnage of gold-silver was mined. The distance from the Upper Tunnel to the surface is about 50 feet. This tunnel is inaccessible and the length is unknown. The applicant does not propose to reopen it. No mining has been done on the Lower Tunnel. The face of the tunnel is reported to be 184 feet beyond the raise, but is inaccessible north of this point. The vein here is supposed to be 10 to 13 feet wide and to assay 41.1% zinc, according to a note on an old map made by the owner. When this tunnel has been repaired, it will make about 150 feet in length of vein accessible for sampling. A trench 16 feet long, 6 inches wide and 4 inches deep was cut across the dump of the Lower Tunnel. This material assayed; Au 0.03, Ag 4.50, Pb 2.0%, and Zn 20.6%.

"About 400 feet northwest of the portal of the Lower Tunnel and almost in the bottom of the gulch, is a shaft, sunk on Vein No. 2, elevation 3840 feet. The depth of this shaft is unknown, but is probably about 100 feet. This is located on the cross vein striking N. 45 degrees W. and has a vertical dip. Applicant proposes to unwater and

repair this shaft and sample the ore thus exposed. A trench 9 feet long, 6 inches wide and 4 inches deep was cut across the dump at No. 2 Shaft. The material assayed: Au 0.21, Ag 3.0, (ounces, of course) and Zn 10.5%. The vein in the shaft is about 4 feet wide. The two assay certificates are attached."

The above description is endorsed by me, as far as I can now determine.

Remarks: As stated by Mr. Thurston above, the two tunnels mentioned are inaccessible. Also, the shaft is full of water to within a few feet of its portal. Hence, I could not enter these workings in order to investigate the same. However, in looking over the dump below the mouth of the Lower Tunnel, I found a number of pieces of zinc blende (Sphalerite) weighing from a few pounds to 20 pounds, and I would say these individual pieces would assay at least 35% zinc. Also, I inspected the dump at the No. 2 Shaft referred to, and here also I found pieces of zinc-lead ore of goodly grade.

Again in looking over the surface outcroppings of the main vein, I found the same to be leached and oxidized, the whole vein being honeycombed, showing where the crystals of sulphide ore had once occupied these spaces, such as iron pyrite, galena and blende. Here also in these croppings, I found residual bunches of galena and blende. Hence it is plain that at shallow depth massive sulphides will be encountered carrying goodly values in zinc, lead, gold and silver. This condition is characteristic of the Cerbat Range in which this property is located. That is to say: gold-silver ore of shipping or milling grade is found in the oxidized surface outcrops, while from 30 to hundreds of feet deep complex sulphide ores come in carrying the metals just mentioned.

Objective of Loan: Applicant plans to use the said loan, when and if granted, to clean out and retimber where necessary the said Lower Tunnel in order to make the same accessible for sampling by R. F. C. engineers. He also proposes to unwater Shaft No. 2, with the same end in view. Again, when and if the said sampling should prove satisfactory, applicant plans to apply for a \$20,000 development loan, from R. F. C. to be used to block out an underground ore supply which, in my opinion, will be found.

Conclusion: From facts herein set forth, I am of the firm opinion and belief that this property fully warrants the granting of the said preliminary development loan.

(Signed) ELGIN B. HOLT
Field Engineer

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine COLUMBUS GROUP

Date November 25, 1942.

District Wallapai, Mohave Co., Ariz.

Engineer Elgin B. Holt

Subject:

RE- APPLICATION FOR: PRELIMINARY DEVELOPMENT LOAN

OWNER: Nina Uncapher, Chloride, Arizona.

LESSEE: J.H. Hall, Chloride, Arizona.

METALS: Zinc, lead, gold and silver.

AREA & LOCATION:

This group of mining claims, consisting of the COLUMBUS and MONROE DOCTRINE unpatented claims, is located in Mohave County, Arizona, about 12 miles north of Kingman, from which point property is reached by a paved highway, which one follows for about 7 miles toward Boulder Dam; thence by a fair dirt road around 5 miles in length.

R. F. C. LOAN APPLICATION:

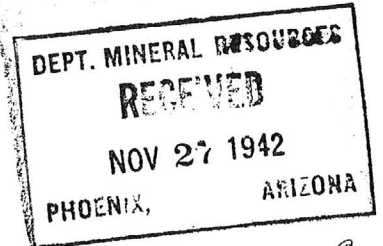
This property was visited by me on November 12, 1942, in company with J. H. Hall, lessee, who has arranged with R. A. Thurston, Mining Engineer, of Chloride, Arizona, to draw up an application for a preliminary development loan in the sum of \$5,000.

GEOLOGY:

The country rock of this entire region, embracing the foot hills of the Cerbat Mountains, is composed of pre-Cambrian granite-gneiss complex, intruded at frequent intervals with later quartz-porphyry dikes.

VEINS:

The rock formation mentioned is cut by a persistent main vein striking N. 15 degrees W. and dip 70 E. This vein can be traced for around 3,000 feet and extends into other claims to the north and to the south. Also, part way between the Lower and Upper tunnels this main vein is intersected by another ore-bearing vein striking N. 45 degrees W.; said vein being known as Vein No. 2, on which Shaft No. 2 is located.



MINE WORKINGS:

Mr. Thurston states: "Most of the development work has been done on the Columbus claim. There are two tunnels on the vein, one 70 feet above the other and connected by a raise, which continues to the surface. This raise marks the south end line of the Columbus. There are a number of stopes between the Upper Tunnel and the surface, where, it is reported, a large tonnage of gold-silver was mined. The distance from the Upper Tunnel to the surface is about 50 feet. This tunnel is inaccessible and the length is unknown. The applicant does not propose to reopen it. No mining has been done on the Lower Tunnel. The face of the tunnel is reported to be 184 feet beyond the raise, but is inaccessible north of this point. The vein here is supposed to be 10 to 13 feet wide and to assay 41.1% zinc, according to a note on an old map made by the owner. When this tunnel has been repaired, it will make about 150 feet in length of vein accessible for sampling. A trench 16 feet long, 6 inches wide and 4 inches deep was cut across the dump of the Lower Tunnel. This material assayed: Au 0.03, Ag 4.50, Pb 2.0%, and Zn 20.6%.

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The above description is endorsed by me, as far as I can now determine.

REMARKS:

As stated by Mr. Thurston above, the two tunnels mentioned are inaccessible. Also, the shaft is full of water to within a few feet of its portal. Hence, I could not enter these workings in order to investigate the same. However, in looking over the dump below the mouth of the Lower Tunnel, I found a number of pieces of zinc blende (Sphalerite) weighing from a few pounds to 20 pounds, and I would say these individual pieces would assay at least 35% zinc. Also, I inspected the dump at the No. 2 Shaft referred to, and here also I found pieces of zinc-lead ore of goodly grade.

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OBJECTIVE OF LOAN:

Applicant plans to use the said loan, when and if granted, to clean out and retimber where necessary the said Lower Tunnel in order to make the same accessible for sampling by R. F. C. engineers. He also proposes to unwater Shaft No. 2, with the same end in view. Again, when and if the said sampling should prove satisfactory, applicant plans to apply for a \$20,000 development loan, from R. F. C., to be used to block out an underground ore supply, which, in my opinion, will be found.

CONCLUSION:

From facts herein set forth, I am of the firm opinion and belief that this property fully warrants the granting of the said preliminary development loan.

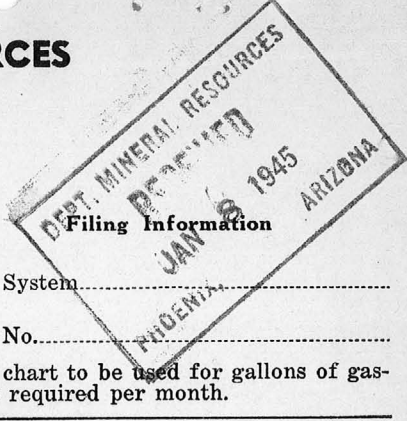
Elgin B. Holt.

Elgin B. Holt,
Field Engineer.

White copy of Kingman Board/Sheet
Book & Sheet

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON
ACTIVE MINING PROJECT



Date: January 6, 1945
Name of Mine: Columbus Mine
Owner or Operator: J.H. Hall
Address: Charide Ariz.
Mine Location: 3 mi west of Kingman

Filing Information
File System.....
File No.....
This chart to be used for gallons of gas-
oline required per month.

PRESENT OPERATIONS: (check X)

Production.....; Development ; Financing.....; Sale of mine.....;
Experimental (sampling).....; Owner's occasional trip.....;
Other (specify).....

PRODUCTION: Past and Future.

Approx. tons last 3 months none
Approx. present rate per 3 months "
Anticipated rate next 3 months "
If in distant future check (X) here yes

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars		<u>600 mi.</u>	<u>40</u>
Light or Service Trucks			
Ore Hauling Trucks			
Compressors			
Other Mine or Mill Eqpt.			

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Gold, silver and zinc & lead

REMARKS:

.....
.....
.....

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By: Leata Hasameas