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Arizona Department of Mines and Mineral Resources Mining Collection

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03/20/90

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: DETROIT

ALTERNATE NAMES:
HUDSON TUNNEL
NEW YORK TUNNELS

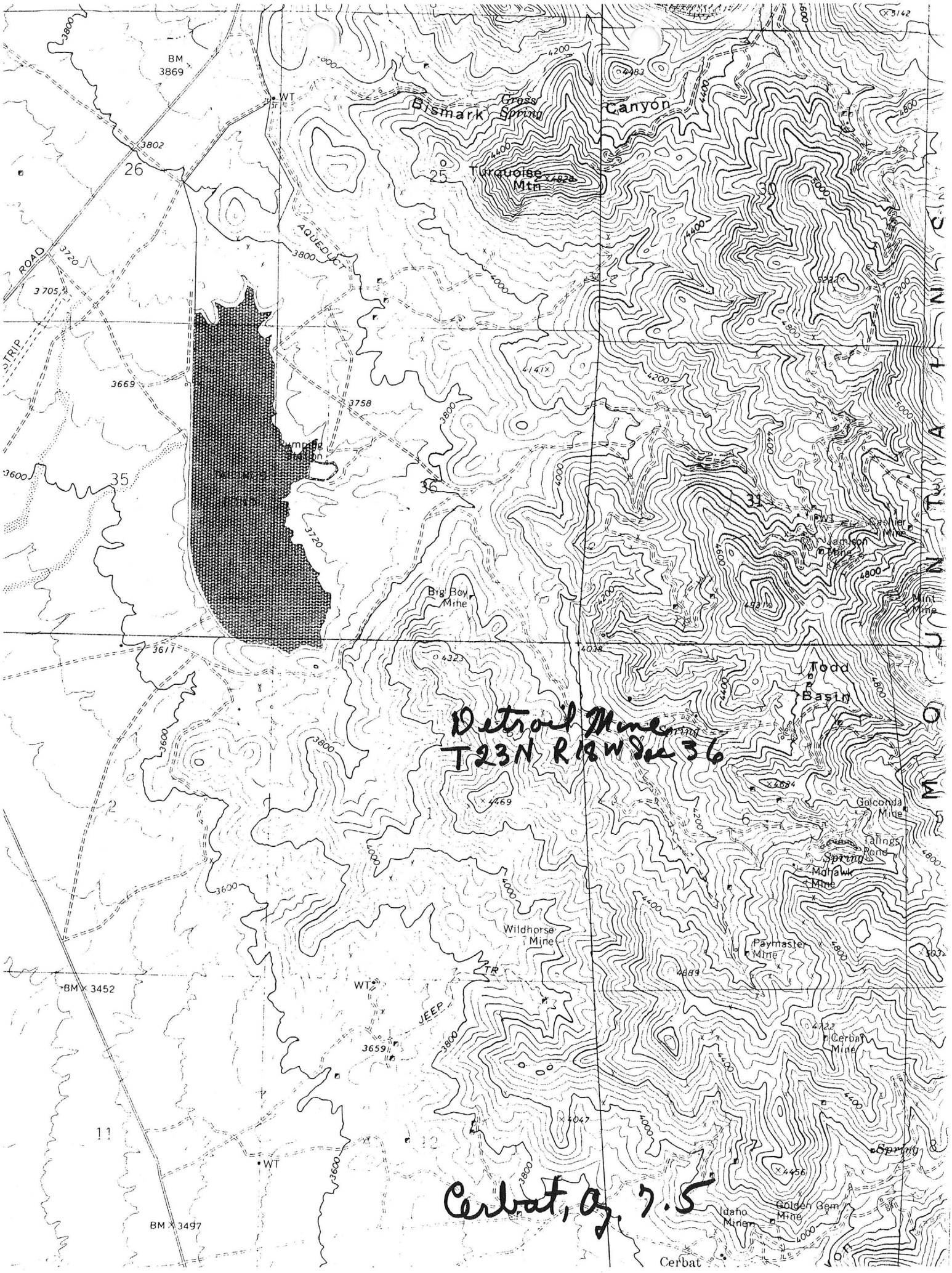
MOHAVE COUNTY MILS NUMBER: 132B

LOCATION: TOWNSHIP 23 N RANGE 18 W SECTION 36 QUARTER NE
LATITUDE: N 35DEG 20MIN 31SEC LONGITUDE: W 114DEG 08MIN 53SEC
TOPO MAP NAME: CERBAT - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
SILVER
GOLD LODE
COPPER SULFIDE
ZINC SULFIDE
URANIUM
LEAD SULFIDE
IRON
ALUMINUM
SULFUR

BIBLIOGRAPHY:
ADMMR DETROIT MINE FILE & (COLVO FILE)
ADMMR MOHAVE CUSTOM MILL PROJECT
HAURY, P.S. "ZINC-LEAD MINES IN WALLAPAI MNG DIST, AZ" USBM RI 4101, P 25-27, 1947
AEC PRELIM. RECONN. RPT. 172-485, PP. 127-130
AZ. MINING ASSOC. "COMM. ON BLM UPPER SONORAN DRAFT, WLDRNS IMPCT STATEMT" (ADMMR GEOL. F)
HART, O. & HETLAND, D., AEC-RME 4026, P 18-25


Bismark Spring
Gross Canyon
Turquoise Mtn
AQUEDUCT
ROAD
TRIP
Big Boy Mine
Jamison Mine
Mint Mine
Todd Basin
Detroit Mine
T23N R14W Sec 36
Golconda Mine
Tailings Pond
Spring
Mohawk Mine
Wildhorse Mine
Paymaster Mine
Cerbat Mine
Golden Gem Mine
Idaho Miner
Cerbat
JEEP TR
BM 3869
BM X 3452
BM X 3497
WT
Cerbat, Az. 7.5

Arizona Department of Mines and Mineral Resources

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM-1045 Uranium Ore

MOHAVE COUNTY

DETROIT MINE

MILS # 132-B

2-AKAI

Detroit (file)

From "The Wallapai Project" by Mountain States Resource Development, Inc. Complete report in Tennessee-Schuylkill file.

Ore minerals are principally cerargerite (silver), native gold, galena (lead) sphalerite (zinc), and chalcopyrite (copper). Some arsenopyrite occurs along with cerrusite and oxidized base metal minerals. One can consider this to be a typical "Rocky Mountain Lead, Zinc, Copper Ore."

In March 1977 Messers Dale and Rudy reported on their efforts to justify a custom mill for the small miners of Mohave County. They were funded by a government grant and did their work in conjunction with a number of governmental agencies. In the northern part of the district they report 256,700 tons of dump and tailing ore grading .018 to .103 oz/T gold, .66 to 6.63 oz?t silver, .03 to .16% copper, .13 to 1.79% lead and .50 to 3.56% zinc. They considered this to be proven ore.

It is interesting to note that this is only the northern part of the district and only includes materials that were easily accessable. Items like the buried table and jig tails at the Tennessee were not included.

H. Mason Coggin, a well known and respected mining engineer, evaluated the Copper Age group of claims in April, 1980. He measured many ore occurrences and interpreted a number of undeveloped one in the Copper Age group has a potential of 4.730 million tons averaging $200/ton.

In the Hidden Treasure section of the property Mr. Coggin estimates .5 million tons of ore grading $200/ton or better.

The Arizona Bureau of Mines lists the following known reserves in the Wallapai Mining District:

Mine	Tons	% Cu	% Pb	% Zn	oz/T Au	oz/T Ag
Banner	3841	.5	22.6	11.9	.21	7.4
	5000	.5	22.6	11.9	.21	7.4
Summit	25,000	.58	4.3	6.3	.066 -	4.5
	25,000	.58	4.3	6.3	.066	4.5
Golconda	40,000	.5	.5	14.0	.20	4.0
	40,000	.5	.5	14.0	.20	4.0
Fountain Head	1,250	.61	.65	16.4	.2	3.5
	3,750	.61	.65	16.4	.2	3.5
Detroit	1600	2.31	1.0	5.5	.01	7.2
	1600	2.31	1.0	5.5	.01	7.2
Wrigley	56,000	.1	9.0	.1	.1	.2
Tennessee	29,503	.1	4.1	8.2	.01	.2
	50,000	.1	4.1	8.2	.01	.2

note to file - at time of scanning this is next page - pp 2, 3 missing. Dms

Tennessee	100,000	.1	4.1	8.2	.01	.2
New Moon	11,000	.1	5.0	8.0	.05	7.5
	9,900	.1	5.0	8.0	.05	7.5
	10,000	.1	5.0	8.0	.05	7.5
Minnesota	900	.6	5.0	4.0	.01	.2
Lone Jack	2000	.19	5.51	4.66	.035	3.47
Copper Age	7,000	.1	3.6	7.3	.06	2.0
	7,000	.1	3.6	7.3	.06	2.0
Champion	570	.1	8.0	15.6	.26	10.0
	6,000	.1	8.0	15.6	.26	10.0
	6,000	.1	8.0	15.6	.26	10.0

While the above represent substantial exploration and are very conservative, espcially since this is what their taxes are based upon, it is not fully conclusive. Mining costs, metallurgical techniques and markets must be developed. However these do show the substantial amounts of ore left in the mines.

Howard H. Heilman examined the Golconda Mine in great detail. He measured the reserves in numerous structures and defined those reserves as follows:

Virginia	350,000 tons
Tub	400,000
Little Jimmie	150,000
Peach Triangle	350,000
Golconda	300,000
Prosperity	80,000
Primrose	80,000
Blackfoot	90,000
	1,800,000

Mr. Heilman values these ores as follows:

Zinc	16%
Lead	.5%
Copper	.5%
Gold & Silver	$120.00/T*

* Bases on $300/oz gold and $6.00/oz silver.

The whole emphasis that comes from the Golconda reports is that the mine was shut down when the fire occurred and once stopped was not restarted. The stopes that were in production are in approximately the same situation as when the mine closed.

Tonnages as indicated above were confirmed by H. G. Humes and The American Metal Company. Grades in their estimates ran higher in lead and copper and slightly lower in zinc.

Dump samples on the Golconda were taken and measurements of tonnage were made. The measured tonnages are as follows:

Chats	15,000 tons
Lower Blackfoot	3,000
Middle Blackfoot	7,000
Upper Blackfoot	500
Prosperity	8,000
Tub	3,000
Silver	7,000
Tails	20,000
Golconda	30,000
	93,500

Of the dump ore, approximately 6,000 tons of it will not meet $65/T gross metal value criteria leaving some 87,500 tons.

Samples taken by CEC have confirmed some of the grades quoted. The ongoing program of sampling each dump by complete trenching and then metallurgical testing the sampled material will accurately prove not only the tonnage and assay of each dump, but will also define what can be recovered from these dumps.

Metallurgically the ores in the Wallapai District are best treated by flotation. Recoveries as follows can be expected on ores that are freshly mined:

Lead and Silver	90-95%
Copper and Gold	85-90%
Zinc	75-85%

Ores that have been oxidized by weathering (e.g. dump ores) are also best treated by flotation unless the weathering is severe. One might expect a 5% reduction in recovery, but otherwise the treatment should be unaffected.

Gravity seperation means can also be used on the Wallapai ores. Recoveries are lower, but oxidation has no effect. Some cases of highly oxidized ores yield higher recoveries than flotation, but these are not very important in the district.

Ores with high sulfides should never be treated by leaching techniques. This is a waste of time, money and resources.

The most important item in determining the best method of treatment is metallurgical testing. Ores, even ores from similar mines, must be tested and the parameters for optimum treatment established. A few dollars spent on professional metallurgical testing will save hundreds of thousands in the final analysis.

Summarizing one can state that dump ores and tailings in the district that will meet a $65/T gross metal value are substantial. If the reports issued by competent personnel quoted herein are correct the tonnage is in excess of 300,000 tons. While CEC is

DETROIT MINE MOHAVE COUNTY

Pat Patterson and Stanley George own the Detroit mine near the Golconda. VBD WR 6/20/76

We drove to the Detroit mine east of the Duval Mineral Park tailing pond where we expected to collect a sample of sphalerite-uraninite ore for metallurgical testing. The water level in a winze was above the ore zone. VBD WR 8/20/76

I drove to the Detroit Mine southeast of Duval's Mineral Park tailing pond. I wnet underground at the Hudson tunnel where I cut a sample from a narrow stringer of zinc copper sulphide ores containing uranium. I also selected about 25 pounds of zinc ores from the Detroit mine dump for metallurgical testing. VBD WR 9/18/76

RH

STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA 85007

COPY

July 14, 1976

Arthur Baker III, Dean
Mackay School of Mines
Reno, Nevada 89507

Dear Dean Baker:

Sometime during the late 1950's (1957-1960) the Nevada Bureau of Mines or the Mackay School of Mines collected samples from the Detroit Mine in the Cerbat Mountains of Mohave County, Arizona. The samples were gathered, we are told, for making metallurgical tests to determine the feasibility of separating uranium minerals from base metal concentrates.

If the records developed from this sampling are available, could you please let us know how we may obtain copies of the data available.

Very truly yours,

John H. Jett
Director

95

'Detroit Mine
"M" Alpha,

STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA 85007

COPY

July 14, 1976

Massachusetts Institute of Technology
1 Amherst Street
Cambridge, Massachusetts 02139

Gentlemen:

Sometime during 1956 your institution, presumably the Metallurgical Division of your Mines College or Earth Sciences College, collected samples from the Detroit Mine in the Cerbat Mountains of Mohave County, Arizona. These samples were gathered for making metallurgical tests to determine the feasibility of separating uranium minerals from base metal concentrates.

If it is possible for you to locate such tests, may we have copies of the test results for our files?

Sincerely,

John H. Jett
Director

95

May 27, 1957

DETROIT (file)

MOHAVE COUNTY
WALLAPAI DIST.

This property idle.

MARK GEMMILL

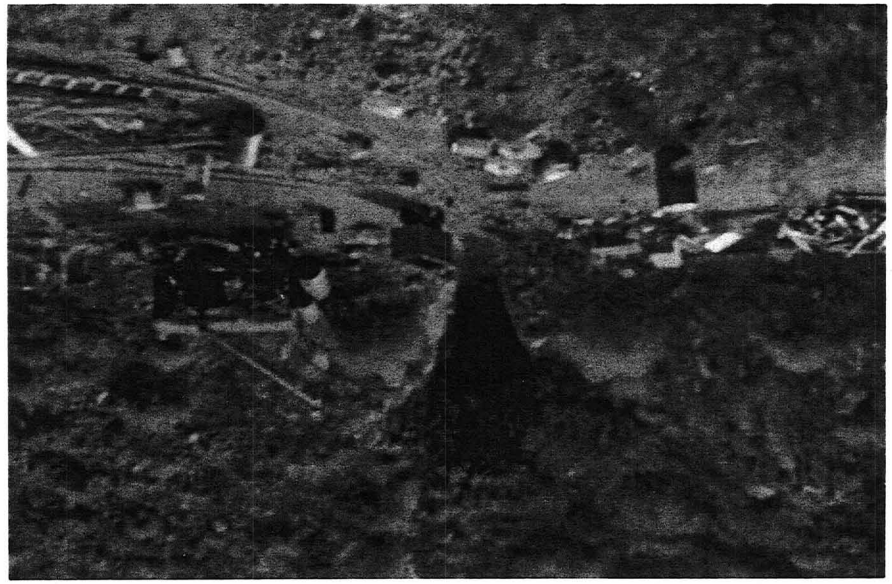
See: RME-4026, pp. 18 - 25, in A.E.C. files.
See: A.E.C. 172-485, pp. 127--130. In A.E.C. files.
(HUDSON CLAIM, NEW YORK CLAIM, PALISADES CLAIM)

Photo Pulled

Memo only

Plat 2

dated January 1953



ARIZONA COPPER TARIFF BOARD
528 TITLE AND TRUST BLDG.
PHOENIX, ARIZONA

VIA AIR MAIL

Pictures

memo
Pg 2 of 2

ARIZONA COPPER TARIFF BOARD
528 TITLE AND TRUST BLDG.
PHOENIX, ARIZONA

VIA AIR MAIL

Pictures

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine: Detroit Mine
Date: Nov.12,1952
District: Wallapai
Engineer: Geo.F.Reed
Subject:

Notes in addition to news item,this date.

This property has been shipping gold-silver,copper-zinc ore to Midvale and one carload was shipped for copper ore to Magma Smelter. Recently, they discovered Uranium.This discovery is subject of news item under this date.

A carload shipped to Midvale assayed 0.04oz. gold, 10.6oz. silver,1.4% copper, 0.95% lead and 12.0% zinc. These are A.E.C. assays on pulp from the mill. A.E.C. assayed this pulp from 46. tons of ore and got 0.098 eU308, and 0.082 cU308.

Another lot of 33.7 dry tons to Midvale ran 0.045oz. gold,16.2oz. silver, 2.0% copper, 0.37% lead and 18.4% zinc. Also 10.9% iron and 17.1% sulphur. This was not run for uranium. At 19½¢ zinc, the pay on zinc at Midvale for this was $18.40 and milling charge $4.00

The car to Magma on 7-17-52, weighed 34.07 dry tons and ran 2.01% Copper, 10.8 oz. silver, 0.11 oz. gold, 16.4% iron, 4.2% alumina, 13.8% sulphur.Treatment was $5.00, $4.04 frt. before tax., hauling $1.60, 10% royalty. Netted after all charges $255.39 for the leasers. This at 24½¢ copper.

An assay map made by A.E.C. shows U308 assays across widths of from .6 feet up to several feet. Quite a few along the base metal ore run about two to three feet and run from very low up to .25%. Scintillometer readings run 600-1500 in the ore zone. In the winze, assays were .018 to .05% U308.

Description & Map of this mine in:-
U.S. Bureau of Mines R.I. 4101,
Aug. 1947,
"Exam. of Zinc-Lead Mines in the Wallapai Min. Dist., Mohave Co., Ariz."
Page 26&27.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Detroit Mine Date Nov. 12, 1952

District Wallapai Engineer Geo. F. Reed

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GEORGE F. REED

4 unpatented claims.

DEPARTMENT OF MINERAL RESOURC

News Items

Date Nov 12, 1952

Mine Detroit

Location 17 mi. North of Kingman by road. Sec. 36, Twp. 23N, Range 18W.

Owner I. M. George

Address Kingman, Ariz.

Operating Co. Leased to Adrion Skinner

Address Partner Dick Hart Kingman, Ariz.

Pres.

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals gold, silver, copper and zinc

Men Employed Just the partners at present

Production Rate Occassional shipments to mill or smelter

Mill, Type & Capacity

have been made in past two years.

Power, Amt. & Type Gasoline engines

Signed GEORGE F. REED

(Over)

1 of 2

Preser[illegible] Operations

New Work Planned

Skinner & Hart have been shipping a little ore with payment received ~~from custom mill or smelter for base metals and precious metals.~~ They have discovered that the ore ~~and some wall rock next to the~~ vein is radio-active. A.E.C. has examined, mapped and sampled ~~the property. Some of the ore~~ specimens give very strong gieger counter reaction. A.E.C. is reported ~~to be ready to pay for raising &~~ drifting to further explore the mine. Mine samples and pulp from carload ~~ore shipments have been assayed for~~ uranium oxide and have given very interesting results.

Miscl. Notes

NAME OF MINE: DETROIT

COUNTY: MOHAVE
DISTRICT: WALLAPAI
METALS: PB, ZN

OPERATOR AND ADDRESS:		MINE STATUS	
DATE:		DATE:	
	Sam Norris, Kingman	5/27/43	RFC loan approved $24,000
		8/43	12 men working
		11/43	Developing
		1/44	Shut down
		3/1/44	Closed

Washington, D.C.
July 17, 1943

SUBJECT: ODT Office
Allocation Section
Application for Truck
Sam Morris, Kingman

Please notify Norris that the number of his certification of transfer is #WPB-175,141.

It will take some days to reach him,no doubt.

You had better phone or wire him to go to his dealer (if trucks are scarce) and furnish the dealer with the number and get thetruck spotted definately before anyone else walks in and buys it.

Bill Broadgate

Detroit Mine

Washington, D.C.
July 17, 1943

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Sam Morris, Kingman

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Bill Broadgate

copy sent to Sam Morris 7/20/43

July 12, 1943

Mr. Sam Norris
P. O. Box 171
Kingman, Arizona

Dear Mr. Norris:

I have just had word from our man in Washington that the O.D.T. office have promised to approve the application of truck for you and to get it to the W.P.B. not later than July 8, so that I believe your truck problems will be solved in the next few days.

Yours very truly,

J. S. Coupal, Director

JSC:LP

Washington, D.C.
July 9, 1943

SUBJECT: ODT OFFICE
Allocation Section
Application for truck
Sam Morris, Kingman
File; LAO-16C-1526

Extract

ODT Office here promised to approve the application and get it to WPB not later than tomorrow.

I think the Automotive Branch can be induced to get it right out.

Bill Broadgate

July 6, 1943

MEMORANDUM

O.D.T. OFFICE
ALLOCATION SECTION
APPLICATION FOR TRUCK
SAM NORRIS, KINGMAN

TO: W. C. Broadgate

FROM: J. S. Coupal

We have found considerable trouble in trying to get Sam Norris of Kingman certification or authority to buy a truck. Norris is working on a $24,000 R.F.C. loan and a truck is quite necessary.

We took this question up with the Phoenix office and found out that there was no official head who could sign the certification or authority to purchase. The Phoenix office, however, forwarded the application with favorable recommendation to their Los Angeles office and the case was O.K.'d there and sent airmail to Washington. They say it will take two weeks to get the truck or the authority to buy the truck and this seems an unreasonable delay.

In the O.D.T. office in Washington in the Allocation Section is file No. L.A.O.-160-1526 under the name of Sam Norris, operating as the Detroit Mine, Kingman, Arizona.

Can you look into this and see if it can be speeded up.

July 2, 1943

Mr. Sam Norris
P. O. Box 171
Kingman, Arizona

Dear Mr. Norris:

I have talked with Mr. Sims's office, who is in charge of the Insurance Agency Service, and you may hear from him direct regarding insurance.

We have had no word yet as to the appointment of the local agent who could certify to your application on a truck, but will follow this up and advise you.

With best wishes and kindest personal regards

Very truly yours

J. S. Coupal, Director

JSC:mch

PD-310
(3-9-42)

(This form may be reproduced in the same size and format)

WAR PRODUCTION BOARD
Division of Industry Operations
Automotive Branch

Applicant must send this form to the nearest Local Allocation Office. **Do not send to Washington, D. C.**

OFFICE OF DEFENSE TRANSPORTATION
Division of Motor Transport

APPLICATION TO ACQUIRE A NEW COMMERCIAL MOTOR VEHICLE

NOTE.—A separate application must be submitted for each new commercial motor vehicle desired. Read carefully instructions appearing on reverse side and the "Usage Classification List for Commercial Motor Vehicles" before preparing application.

RECORD OF OFFICE OF DEFENSE TRANSPORTATION—APPLICANT SHOULD NOT WRITE IN THESE SPACES

LOCAL ALLOCATION OFFICE No. _____
(City) _____ (State) _____
LOCAL ALLOCATION No. _____
USAGE CLASSIFICATION _____
Approved _____ Disapproved _____

SIGNED _____
Local Allocation Officer.

RECEIVED _____ FWD _____

DIVISION OF MOTOR TRANSPORT
USAGE CLASSIFICATION _____
Approved _____ Disapproved _____

SIGNED _____
Director, Division of Motor Transport, Office of Defense Transportation.

RECEIVED _____ FWD _____

Date: (Month) July 1st 1943 (Day) _____ (Year) _____

1. Name of applicant Sam Norris
2. Doing business as Operator Detroit Mine
3. Address (principal place of business) P.O.Box 171, Kingman Arizona
   (Street and number) (City) (State)
4. Engaged in transportation: For hire No Not for hire yes Intercity no Local yes
5. Principal commodities transported Mining material, equipment and supplies
6. How many applications have you submitted prior to this date? None Give dates of such applications xx
7. Applicant requests authority to acquire new commercial motor vehicle described below:

MOTOR TRUCK OR TRUCK-TRACTOR

Make Desired (1)	Gross Vehicle Weight* (2)	TYPE Truck or Truck-Tractor (3)	Nature of Vehicle Requested "Yes" or "No" in each column: Chassis Only (4)	Chassis and Cab (5)	Chassis, Cab, and Body (6)	TYPE BODY TO BE MOUNTED ON CHASSIS Van; Tank; Etc. (7)	TIRES (8): Front No.	Front Size	Rear No.	Rear Size
WC-Dodge Pick-up	4200lbs.	Truck			Pickup		2	16x600	2	16x600

*(See instruction 4 on other side.)

SEMITRAILER OR FULL TRAILER OF 10,000 LB. LOAD-CARRYING CAPACITY OR OVER

Make Desired (1)	Load Carrying Capacity (pounds) (2)	Type of Trailer "Yes" or "No" in each column: Semi (3)	Full (4)	TYPE BODY TO BE MOUNTED Van; Tank; Etc. (5)	TIRES (6): No.	Size

8. The vehicle requested will be used in the following usage classification (state which, and describe in detail service and place of use in your own words): Class _____ Description of service transporting mine equipment, supplies material, explosives, timber, gas and fuel oil etc. In the production of zinc ores and concentrates, Copper ores and lead ores. This property has been granted a $24,000 RFC development loan and this truck is necessary to assist in assembling necessary mining equipment to the property. Men are now on the property doing development work.

9. What will the utilization of this vehicle be: (*a*) In the service for which requested, miles per week 600-700 Hours per week 48; (*b*) In other services, miles per week No hours per week No

16—27192-1

10. Can the service for which you desire to use this vehicle be performed practicably by more intensive utilization of your present equipment, by pooling equipment with other operators in your area, by leasing equipment, or by some other arrangements?
Yes ____ No X If not, explain why and indicate steps you have taken in this connection.
Have no other equipment. Have tried to secure other means and none available
I have checked several other points for used equipment and could not find any.

11. Will the vehicle requested be placed in the service specified immediately upon acquisition? Ans. Yes X No ____
If not, state reason for delay and give approximate date on which the vehicle will be placed in service.
Needed immediately

12. How long do you anticipate using the vehicle in the specified service described in 8 above? Life of Vehicle
13. In the following table list the number of motor vehicles, other than passenger automobiles, that are owned or operated by you as of date of application:

Extent of Control of Vehicles	TRUCKS*			TRUCK—TRACTORS*		TRAILERS*		BUSES*
	Light (1)	Medium (2)	Heavy (3)	Medium (4)	Heavy (5)	Semi (6)	Full (7)	(8)
14. Owned and operated by you								
15. Owned by you but operated by others		NONE						
16. Operated by you but owned by others								
Total								
Distribution of Vehicles by Usage Classification	In spaces below, classify the vehicles listed on line 14 on basis of "Predominant Use" during the past month. If you have listed vehicles on lines 15 or 16, fill out and attach a table for each corresponding to items 17 to 21. If any of the vehicles are so constructed as to prevent their being adapted for use in the service for which the new equipment is requested, describe such vehicles separately.							
17. Vehicles in Usage Classification I								
18. " " " " II								
19. " " " " III		NONE						
20. " " " " IV								
21. " " " " V								

*Light means less than 9,000 lb. GVW; medium 9,000 lb. but less than 16,000 lb. GVW; heavy 16,000 lb. and over GVW; trailers of 10,000 lb. load-carrying capacity or over; buses with seating capacity of 15 persons or over.

22. If any of the foregoing vehicles are utilized less than indicated in 9 above, indicate the number and explain.
Not applicable

23. Is the vehicle requested to be used as replacement? No or as additional equipment? X (Check)
24. If replacement, state make, model, mileage, and general condition of vehicle to be replaced and also explain why this vehicle cannot be repaired to serve your purpose ____

25. State the disposition to be made of the vehicle replaced ____

26. Check one of the following:

☒ The requested vehicle is being held by sales agency and transfer to applicant will, so far as known by the applicant, be made immediately upon receipt of Certificate of Transfer (PD–321).
Date order placed with Sales Agency 7/1/43

☐ The requested vehicle is of special design and must be manufactured to order.

☐ The requested vehicle has not been contracted for, but applicant is reasonably sure delivery can be secured within 30 days from one of several dealers having vehicles in stock at present.

☐ The requested vehicle is at present not held in stock by local dealers, but order will be placed upon receipt of Certificate of Transfer (PD–321).

(Original only must be notarized)

Subscribed and sworn to before me this 1st day of July, 1943

(Seal)

Signed--Lorraine Porter
Notary Public

~~My commission expires December 6th 1946~~

Signed---Sam Norris
(Name of Applicant)

By ____
(Signature of Official)

(Title of Official)

INSTRUCTIONS

1. Either typewrite or print legibly in ink.
2. Unless all questions are answered completely application will be returned without consideration.
3. Three copies, including original, of this form required. Retain one copy and forward the original and other copy to Local Allocation Office (of Office of Defense Transportation) serving the area in which your principal place of business is located.
4. GVW (Gross Vehicle Weight) means the combined weight of chassis, cab, body, equipment, and pay load as authorized by the vehicle manufacturer. The same rating should be given a truck-tractor as would be given the vehicle if it were to be used as a truck.
5. This application must be made by the prospective owner or his authorized agent.
6. If this form provides insufficient space for information required, securely attach additional sheets, and number answers to correspond with question numbers.
7. Section 35(A) of the United States Criminal Code (18 U. S. C. 80) makes it a criminal offense to make a false statement or representation to any Department or agency of the United States as to any matter within the jurisdiction of any Department or agency of the United States.

16—27192-1 U. S. GOVERNMENT PRINTING OFFICE

July 2,1943.

Mr. Sam Norris
Detroit Mine
P O Box 171
Kingman, Arizona.

Dear Mr. Norris:-

I have followed up your application for a truck and the WPB office of ODT have sent your application air-mail to Los Angeles asking that office to certify to it and send it air-mail to Washington, D.C. It ought to be settled early next week and we will be advised.

There are many complex details to comply with in the operations under an RFC loan which are a great burden on an operator.

Unless properly complied with many delays are encountered. I know and that Senator J. Hubert Smith of Kingman has handled the Phillips-Berger Tungsten details on their loan and has done so very effectively at a moderate charge.

May I suggest that you think over a plan to have someone handle your details and thus give you more time to handle the actual production work. I am sure that it will speed up the results from your work and can recommend J. HUbert Smith highly for your consideration.

Very truly,

J. S. Coupal.

June 30, 1943

Office of Defense Transportation
Security Building
Phoenix, Arizona

Gentlemen:

Subject: Application for Purchase of Truck

Mr. Sam Norris, P. O. Box 171, Kingman, is in dire need of a pickup truck for his mine operations. He has received an R.F.C. mine loan of $24,000 for developing the Detroit group of mining claims located in the Cerbat Mountains, Mohave County. The mine is developed to the extent of justification for a $24,000 development loan and shows commercial values in zinc and copper.

Mr. Norris has located a GMC pickup truck at Madison Motors in Phoenix which he is desirous of buying and a tentative deal has been arranged for the purchase of this truck, which can be closed as soon as approval is granted by your department.

As the property is one producing essential metals for the war effort and as our engineers have examined the property and the R.F.C. have approved and have granted a loan, I feel fully justified in certifying for the need of this equipment for the mine operations and would appreciate your assisting Mr. Norris in this matter.

Yours very truly,

J. S. Coupal, Director

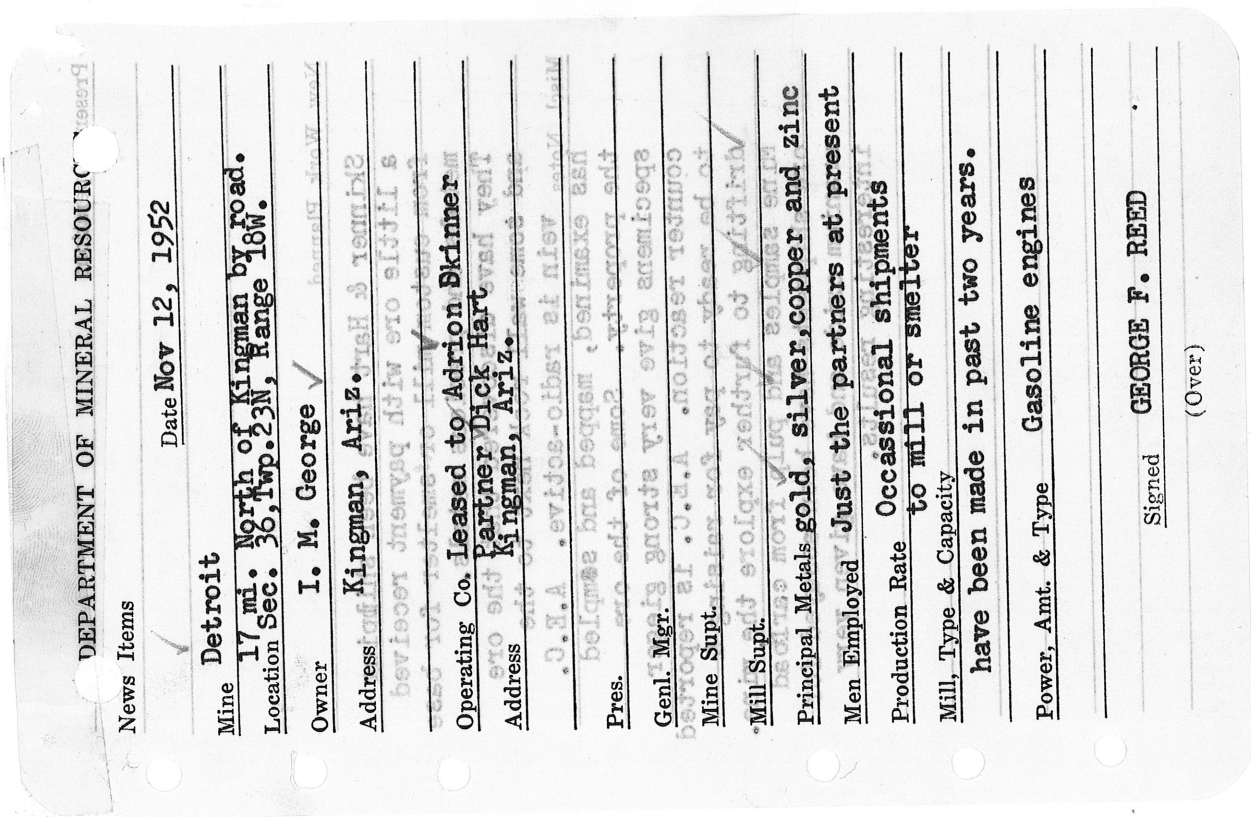
JSC:LP

DETROIT MINE MOHAVE COUNTY

Pat Patterson and Stanley George own the Detroit mine near the Golconda. VBD WR 6/20/76

We drove to the Detroit mine east of the Duval Mineral Park tailing pond where we expected to collect a sample of sphalerite-uraninite ore for metallurgical testing. The water level in a winze was above the ore zone. VBD WR 8/20/76

I drove to the Detroit Mine southeast of Duval's Mineral Park tailing pond. I wnet underground at the Hudson tunnel where I cut a sample from a narrow stringer of zinc copper sulphide ores containing uranium. I also selected about 25 pounds of zinc ores from the Detroit mine dump for metallurgical testing. VBD WR 9/18/76



DEPARTMENT OF MINERAL RESOURC

News Items

Date Nov 12, 1952

Mine Detroit

Location 17 mi. North of Kingman by road. Sec. 30, Twp. 23N, Range 18W.

Owner I. M. George

Address Kingman, Ariz.

Operating Co. Leased to Adrion Skinner

Address Partner Dick Hart Kingman, Ariz.

Pres.

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals gold, silver, copper and zinc

Men Employed Just the partners at present

Production Rate Occassional shipments to mill or smelter

Mill, Type & Capacity

have been made in past two years.

Power, Amt. & Type Gasoline engines

Signed GEORGE F. REED

(Over)

RH

From "The Wallapai Project" by Mountain States Resource Development, Inc.
Complete report in Tennessee-Schuylkill file.

Ore minerals are principally cerargerite (silver), native gold, galena (lead) sphalerite (zinc), and chalcopyrite (copper). Some arsenopyrite occurs along with cerrusite and oxidized base metal minerals. One can consider this to be a typical "Rocky Mountain Lead, Zinc, Copper Ore."

In March 1977 Messers Dale and Rudy reported on their efforts to justify a custom mill for the small miners of Mohave County. They were funded by a government grant and did their work in conjunction with a number of governmental agencies. In the northern part of the district they report 256,700 tons of dump and tailing ore grading .018 to .103 oz/T gold, .66 to 6.63 oz?t silver, .03 to .16% copper, .13 to 1.79% lead and .50 to 3.56% zinc. They considered this to be proven ore.

It is interesting to note that this is only the northern part of the district and only includes materials that were easily accessable. Items like the buried table and jig tails at the Tennessee were not included.

H. Mason Coggin, a well known and respected mining engineer, evaluated the Copper Age group of claims in April, 1980. He measured many ore occurrences and interpreted a number of undeveloped one in the Copper Age group has a potential of 4.730 million tons averaging $200/ton.

In the Hidden Treasure section of the property Mr. Coggin estimates .5 million tons of ore grading $200/ton or better.

The Arizona Bureau of Mines lists the following known reserves in the Wallapai Mining District:

Mine	Tons	% Cu	% Pb	% Zn	oz/T Au	oz/T Ag
Banner	3841	.5	22.6	11.9	.21	7.4
	5000	.5	22.6	11.9	.21	7.4
Summit	25,000	..58	4.3	6.3	.066 -	4.5
	25,000	.58	4.3	6.3	.066	4.5
Golconda	40,000	.5	.5	14.0	.20	4.0
	40,000	.5	.5	14.0	.20	4.0
Fountain Head	1,250	.61	.65	16.4	.2	3.5
	3,750	.61	.65	16.4	.2	3.5
Detroit	1600	2.31	1.0	5.5	.01	7.2
	1600	2.31	1.0	5.5	.01	7.2
Wrigley	56,000	.1	9.0	.1	.1	.2
Tennessee	29,503	.1	4.1	8.2	.01	.2
	50,000	.1	4.1	8.2	.01	.2

note to file - at time of scanning this is next page - pp 2, 3 missing. Dus

Tennessee	100,000	.1	4.1	8.2	.01	.2
New Moon	11,000	.1	5.0	8.0	.05	7.5
	9,900	.1	5.0	8.0	.05	7.5
	10,000	.1	5.0	8.0	.05	7.5
Minnesota	900	.6	5.0	4.0	.01	.2
Lone Jack	2000	.19	5.51	4.66	.035	3.47
Copper Age	7,000	.1	3.6	7.3	.06	2.0
	7,000	.1	3.6	7.3	.06	2.0
Champion	570	.1	8.0	15.6	.26	10.0
	6,000	.1	8.0	15.6	.26	10.0
	6,000	.1	8.0	15.6	.26	10.0

While the above represent substantial exploration and are very conservative, espcially since this is what their taxes are based upon, it is not fully conclusive. Mining costs, metallurgical techniques and markets must be developed. However these do show the substantial amounts of ore left in the mines.

Howard H. Heilman examined the Golconda Mine in great detail. He measured the reserves in numerous structures and defined those reserves as follows:

Virginia	350,000 tons
Tub	400,000
Little Jimmie	150,000
Peach Triangle	350,000
Golconda	300,000
Prosperity	80,000
Primrose	80,000
Blackfoot	90,000
	1,800,000

Mr. Heilman values these ores as follows:

Zinc	16%
Lead	.5%
Copper	.5%
Gold & Silver	$120.00/T*

* Bases on $300/oz gold and $6.00/oz silver.

The whole emphasis that comes from the Golconda reports is that the mine was shut down when the fire occurred and once stopped was not restarted. The stopes that were in production are in approximately the same situation as when the mine closed.

Tonnages as indicated above were confirmed by H. G. Humes and The American Metal Company. Grades in their estimates ran higher in lead and copper and slightly lower in zinc.

Dump samples on the Golconda were taken and measurements of tonnage were made. The measured tonnages are as follows:

Chats	15,000 tons
Lower Blackfoot	3,000
Middle Blackfoot	7,000
Upper Blackfoot	500
Prosperity	8,000
Tub	3,000
Silver	7,000
Tails	20,000
Golconda	30,000
	93,500

Of the dump ore, approximately 6,000 tons of it will not meet $65/T gross metal value criteria leaving some 87,500 tons.

Samples taken by CEC have confirmed some of the grades quoted. The ongoing program of sampling each dump by complete trenching and then metallurgical testing the sampled material will accurately prove not only the tonnage and assay of each dump, but will also define what can be recovered from these dumps.

Metallurgically the ores in the Wallapai District are best treated by flotation. Recoveries as follows can be expected on ores that are freshly mined:

Lead and Silver	90-95%
Copper and Gold	85-90%
Zinc	75-85%

Ores that have been oxidized by weathering (e.g. dump ores) are also best treated by flotation unless the weathering is severe. One might expect a 5% reduction in recovery, but otherwise the treatment should be unaffected.

Gravity seperation means can also be used on the Wallapai ores. Recoveries are lower, but oxidation has no effect. Some cases of highly oxidized ores yield higher recoveries than flotation, but these are not very important in the district.

Ores with high sulfides should never be treated by leaching techniques. This is a waste of time, money and resources.

The most important item in determining the best method of treatment is metallurgical testing. Ores, even ores from similar mines, must be tested and the parameters for optimum treatment established. A few dollars spent on professional metallurgical testing will save hundreds of thousands in the final analysis.

Summarizing one can state that dump ores and tailings in the district that will meet a $65/T gross metal value are substantial. If the reports issued by competent personnel quoted herein are correct the tonnage is in excess of 300,000 tons. While CEC is

STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA 85007

COPY

July 14, 1976

Arthur Baker III, Dean
Mackay School of Mines
Reno, Nevada 89507

Dear Dean Baker:

Sometime during the late 1950's (1957-1960) the Nevada Bureau of Mines or the Mackay School of Mines collected samples from the Detroit Mine in the Cerbat Mountains of Mohave County, Arizona. The samples were gathered, we are told, for making metallurgical tests to determine the feasibility of separating uranium minerals from base metal concentrates.

If the records developed from this sampling are available, could you please let us know how we may obtain copies of the data available.

Very truly yours,

John H. Jett
Director

95

Detroit Mine
"M" Alpha,

STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA 85007

COPY

July 14, 1976

Massachusetts Institute of Technology
1 Amherst Street
Cambridge, Massachusetts 02139

Gentlemen:

Sometime during 1956 your institution, presumably the Metallurgical Division of your Mines College or Earth Sciences College, collected samples from the Detroit Mine in the Cerbat Mountains of Mohave County, Arizona. These samples were gathered for making metallurgical tests to determine the feasibility of separating uranium minerals from base metal concentrates.

If it is possible for you to locate such tests, may we have copies of the test results for our files?

Sincerely,

John H. Jett
Director

95

May 27, 1957

DETROIT (file)

MOHAVE COUNTY
WALLAPAI DIST.

This property idle.

MARK GEMMILL

See: RME-4026, pp. 18 - 25, in A.E.C. files.
See: A.E.C. 172-485, pp. 127--130. In A.E.C. files.
(HUDSON CLAIM, NEW YORK CLAIM, PALISADES CLAIM)

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine: Detroit Mine
Date: Nov.12,1952
District: Wallapai
Engineer: Geo.F.Reed
Subject:

Notes in addition to news item,this date.

This property has been shipping gold-silver,copper-zinc ore to Midvale and one carload was shipped for copper ore to Magma Smelter. Recently, they discovered Uranium.This discovery is subject of news item under this date.

A carload shipped to Midvale assayed 0.04Oz. gold, 10.6oz. silver,1.4% copper, 0.95% lead and 12.0% zinc. These are A.E.C. assays on pulp from the mill. A.E.C. assayed this pulp from 46. tons of ore and got 0.098 eU308, and 0.082 cU308.

Another lot of 33.7 dry tons to Midvale ran 0.045Oz. gold,16.2oz. silver, 2.0% copper, 0.37% lead and 18.4% zinc. Also 10.9% iron and 17.1% sulphur. This was not run for uranium. At 19½@ zinc, the pay on zinc at Midvale for this was $18.40 and milling charge $4.00

The car to Magma on 7-17-52, weighed 34.07 dry tons and ran 2.01% Copper, 10.8 oz. silver, 0.11 oz. gold, 16.4% iron, 4.2% alumina, 13.8% sulphur.Treatment was $5.00, $4.04 frt. before tax., hauling $1.60, 10% royalty. Netted after all charges $255.39 for the leasers. This at 24½@ copper.

An assay map made by A.E.C. shows U308 assays across widths of from .6 feet up to several feet. Quite a few along the base metal ore run about two to three feet and run from very low up to .25%. Scintillometer readings run 600-1500 in the ore zone. In the winze, assays were .018 to .05% U308.

Geo.F.Reed

Description & Map of this mine in:-
U.S. Bureau of Mines R.I. 4101,
Aug. 1947,
"Exam. of Zinc-Lead Mines in the Wallapai
Min. Dist., Mohave Co., Ariz."
Page 26&27.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
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GEORGE F. REED

4 unpatented claims.

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GEORGE F. REED

4 unpatented claims.

NAME OF MINE: DETROIT

COUNTY: MOHAVE
DISTRICT: WALLAPAI
METALS: PB,ZN

OPERATOR AND ADDRESS:		MINE STATUS	
DATE:		DATE:	
	Sam Norris, Kingman	5/27/43	RFC loan approved $24,000
		8/43	12 men working
		11/43	Developing
		1/44	Shut down
		3/1/44	Closed

Washington, D.C.
July 17, 1943

Detroit

C

SUBJECT: ODT Office
Allocation Section
Application for Truck
Sam Morris, Kingman

Please notify Norris that the number of his certification of transfer is #WPB-175,141.

It will take some days to reach him,no doubt.

You had better phone or wire him to go to his dealer (if trucks are scarce) and furnish the dealer with the number and get thetruck spotted definately before anyone else walks in and buys it.

Bill Broadgate

Detroit Mine

Washington, D.C.
July 17, 1943

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Bill Broadgate

copy sent to Sam Norris 7/20/43

July 12, 1943

Detroit

Mr. Sam Norris
P. O. Box 171
Kingman, Arizona

Dear Mr. Norris:

I have just had word from our man in Washington that the O.D.T. office have promised to approve the application of truck for you and to get it to the W.P.B. not later than July 8, so that I believe your truck problems will be solved in the next few days.

Yours very truly,

J. S. Coupal, Director

JSC:LP

Washington, D.C.
July 9, 1943

SUBJECT: ODT OFFICE
Allocation Section
Application for truck
Sam Morris, Kingman
File; LAO-16C-1526

Detroit

ODT Office here promised to approve the application and get it to WPB not later than tomorrow.

I think the Automotive Branch can be induced to get it right out.

Bill Broadgate

July 6, 1943

MEMORANDUM

O.D.T. OFFICE
ALLOCATION SECTION
APPLICATION FOR TRUCK
SAM NORRIS, KINGMAN

TO: W. C. Broadgate

FROM: J. S. Coupal

We have found considerable trouble in trying to get Sam Norris of Kingman certification or authority to buy a truck. Norris is working on a $24,000 R.F.C. loan and a truck is quite necessary.

We took this question up with the Phoenix office and found out that there was no official head who could sign the certification or authority to purchase. The Phoenix office, however, forwarded the application with favorable recommendation to their Los Angeles office and the case was O.K.'d there and sent airmail to Washington. They say it will take two weeks to get the truck or the authority to buy the truck and this seems an unreasonable delay.

In the O.D.T. office in Washington in the Allocation Section is file No. L.A.O.-160-1526 under the name of Sam Norris, operating as the Detroit Mine, Kingman, Arizona.

Can you look into this and see if it can be speeded up.

July 2, 1943

Detroit

Mr. Sam Norris
P. O. Box 171
Kingman, Arizona

Dear Mr. Norris:

I have talked with Mr. Simis's office, who is in charge of the Insurance Agency Service, and you may hear from him direct regarding insurance.

We have had no word yet as to the appointment of the local agent who could certify to your application on a truck, but will follow this up and advise you.

With best wishes and kindest personal regards

Very truly yours

J. S. Coupal, Director

JSC:ach

PD-310
(3-9-42)

(This form may be reproduced in the same size and format)

WAR PRODUCTION BOARD
Division of Industry Operations
Automotive Branch

Applicant must send this form to the nearest Local Allocation Office.
Do not send to Washington, D. C.

OFFICE OF DEFENSE TRANSPORTATION
Division of Motor Transport

APPLICATION TO ACQUIRE A NEW COMMERCIAL MOTOR VEHICLE

NOTE.—A separate application must be submitted for each new commercial motor vehicle desired. Read carefully instructions appearing on reverse side and the "Usage Classification List for Commercial Motor Vehicles" before preparing application.

RECORD OF OFFICE OF DEFENSE TRANSPORTATION—APPLICANT SHOULD NOT WRITE IN THESE SPACES

LOCAL ALLOCATION OFFICE No. _____
(City) _____ (State) _____
LOCAL ALLOCATION No. _____
USAGE CLASSIFICATION _____
Approved _____ Disapproved _____
SIGNED _____
Local Allocation Officer
RECEIVED _____ FWD _____

DIVISION OF MOTOR TRANSPORT
USAGE CLASSIFICATION _____
Approved _____ Disapproved _____
SIGNED _____
Director, Division of Motor Transport, Office of Defense Transportation.
RECEIVED _____ FWD _____

Date: (Month) July 1st 1943 (Day) _____ (Year) _____

1. Name of applicant Sam Norris
2. Doing business as Operator Detroit Mine
3. Address (principal place of business) P.O.Box 171, Kingman Arizona
(Street and number) (City) (State)
4. Engaged in transportation: For hire No Not for hire yes Intercity no Local yes
5. Principal commodities transported Mining material, equipment and supplies
6. How many applications have you submitted prior to this date? None Give dates of such applications xx
7. Applicant requests authority to acquire new commercial motor vehicle described below:

MOTOR TRUCK OR TRUCK-TRACTOR

Make Desired	Gross Vehicle Weight*	TYPE Truck or Truck-Tractor	Nature of Vehicle Requested "Yes" or "No" in each column			TYPE BODY TO BE MOUNTED ON CHASSIS Van; Tank; Etc.	TIRES (8)			
			Chassis Only	Chassis and Cab	Chassis, Cab, and Body		Front		Rear	
							No.	Size	No.	Size
(1)	(2)	(3)	(4)	(5)	(6)	(7)				
WC-Dodge Pick-up	4200lbs.	Truck			Pickup		2	16x600	2	16x600

*(See instruction 4 on other side.)

SEMITRAILER OR FULL TRAILER OF 10,000 LB. LOAD-CARRYING CAPACITY OR OVER

Make Desired	Load Carrying Capacity (pounds)	Type of Trailer "Yes" or "No" in each column		TYPE BODY TO BE MOUNTED	TIRES (6)	
		Semi	Full	Van; Tank; Etc.	No.	Size
(1)	(2)	(3)	(4)	(5)		

8. The vehicle requested will be used in the following usage classification (state which, and describe in detail service and place of use in your own words): Class _____ Description of service transporting mine equipment, supplies material, explosives, timber, gas and fuel oil etc. In the production of Zinc ores and concentrates, Copper ores and lead ores. This property has been granted a $24,000 RFC development loan and this truck is necessary to assist in assembling necessary mining equipment to the property. Men are now on the property doing development work.
9. What will the utilization of this vehicle be: (*a*) In the service for which requested, miles per week 600-700 Hours per week 48; (*b*) In other services, miles per week No hours per week No

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10. Can the service for which you desire to use this vehicle be performed practicably by more intensive utilization of your present equipment, by pooling equipment with other operators in your area, by leasing equipment, or by some other arrangements?
Yes ---------- No X ---------- If not, explain why and indicate steps you have taken in this connection.
Have no other equipment. Have tried to secure other means and none available
I have checked several other points for used equipment and could not find any.

11. Will the vehicle requested be placed in the service specified immediately upon acquisition? Ans. Yes X ---------- No ----------
If not, state reason for delay and give approximate date on which the vehicle will be placed in service.
Needed immediately

12. How long do you anticipate using the vehicle in the specified service described in 8 above? Life of Vehicle.

13. In the following table list the number of motor vehicles, other than passenger automobiles, that are owned or operated by you as of date of application:

Extent of Control of Vehicles	TRUCKS*			TRUCK—TRACTORS*		TRAILERS*		BUSES*
	Light (1)	Medium (2)	Heavy (3)	Medium (4)	Heavy (5)	Semi (6)	Full (7)	(8)
14. Owned and operated by you								
15. Owned by you but operated by others		NONE						
16. Operated by you but owned by others								
Total								
Distribution of Vehicles by Usage Classification	In spaces below, classify the vehicles listed on line 14 on basis of "Predominant Use" during the past month. If you have listed vehicles on lines 15 or 16, fill out and attach a table for each corresponding to items 17 to 21. If any of the vehicles are so constructed as to prevent their being adapted for use in the service for which the new equipment is requested, describe such vehicles separately.							
17. Vehicles in Usage Classification I								
18. " " " " II								
19. " " " " III		NONE						
20. " " " " IV								
21. " " " " V								

*Light means less than 9,000 lb. GVW; medium 9,000 lb. but less than 16,000 lb. GVW; heavy 16,000 lb. and over GVW; trailers of 10,000 lb. load-carrying capacity or over; buses with seating capacity of 15 persons or over.

22. If any of the foregoing vehicles are utilized less than indicated in 9 above, indicate the number and explain.
Not applicable

23. Is the vehicle requested to be used as replacement? No ---------- or as additional equipment? X ---------- (Check)

24. If replacement, state make, model, mileage, and general condition of vehicle to be replaced and also explain why this vehicle cannot be repaired to serve your purpose ----------

25. State the disposition to be made of the vehicle replaced ----------

26. Check one of the following:

☒ The requested vehicle is being held by sales agency and transfer to applicant will, so far as known by the applicant, be made immediately upon receipt of Certificate of Transfer (PD–321).
Date order placed with Sales Agency 7/1/43

☐ The requested vehicle is of special design and must be manufactured to order.

(Original only must be notarized)

Subscribed and sworn to before me this 1st day of July, 1943

(Seal)

Signed--Lorraine Porter
Notary Public

My commission expires December 6th 1946

☐ The requested vehicle has not been contracted for, but applicant is reasonably sure delivery can be secured within 30 days from one of several dealers having vehicles in stock at present.

☐ The requested vehicle is at present not held in stock by local dealers, but order will be placed upon receipt of Certificate of Transfer (PD–321).

Signed---Sam Norris
(Name of Applicant)

By ----------
(Signature of Official)

(Title of Official)

INSTRUCTIONS

1. Either typewrite or print legibly in ink.
2. Unless all questions are answered completely application will be returned without consideration.
3. Three copies, including original, of this form required. Retain one copy and forward the original and other copy to Local Allocation Office (of Office of Defense Transportation) serving the area in which your principal place of business is located.
4. GVW (Gross Vehicle Weight) means the combined weight of chassis, cab, body, equipment, and pay load as authorized by the vehicle manufacturer. The same rating should be given a truck-tractor as would be given the vehicle if it were to be used as a truck.
5. This application must be made by the prospective owner or his authorized agent.
6. If this form provides insufficient space for information required, securely attach additional sheets, and number answers to correspond with question numbers.
7. Section 35(A) of the United States Criminal Code (18 U. S. C. 80) makes it a criminal offense to make a false statement or representation to any Department or agency of the United States as to any matter within the jurisdiction of any Department or agency of the United States.

16—27192-1 U. S. GOVERNMENT PRINTING OFFICE

July 2,1943.

Mr. Sam Norris
Detroit Mine
P O Box 171
Kingman, Arizona.

Dear Mr. Norris:-

I have followed up your application for a truck and the WPB office of ODT have sent your application air-mail to Los Angeles asking that office to certify to it and send it air-mail to Washington, D.C. It ought to be settled early next week and we will be advised.

There are many complex details to comply with in the operations under an RFC loan which are a great burden on an operator.

Unless properly complied with many delays are encountered. I know and that Senator J. Hubert Smith of Kingman has handled the Phillips-Berger Tungsten details on their loan and has done so very effectively at a moderate charge.

May I suggest that you think over a plan to have someone handle your details and thus give you more time to handle the actual production work. I am sure that it will speed up the results from your work and can recommend J. HUbert Smith highly for your consideration.

Very truly,

J. S. Coupal.

June 30, 1943

Office of Defense Transportation
Security Building
Phoenix, Arizona

Gentlemen:

Subject: Application for Purchase of Truck

Mr. Sam Norris, P. O. Box 171, Kingman, is in dire need of a pickup truck for his mine operations. He has received an R.F.C. mine loan of $24,000 for developing the Detroit group of mining claims located in the Cerbat Mountains, Mohave County. The mine is developed to the extent of justification for a $24,000 development loan and shows commercial values in zinc and copper.

Mr. Norris has located a GMC pickup truck at Madison Motors in Phoenix which he is desirous of buying and a tentative deal has been arranged for the purchase of this truck, which can be closed as soon as approval is granted by your department.

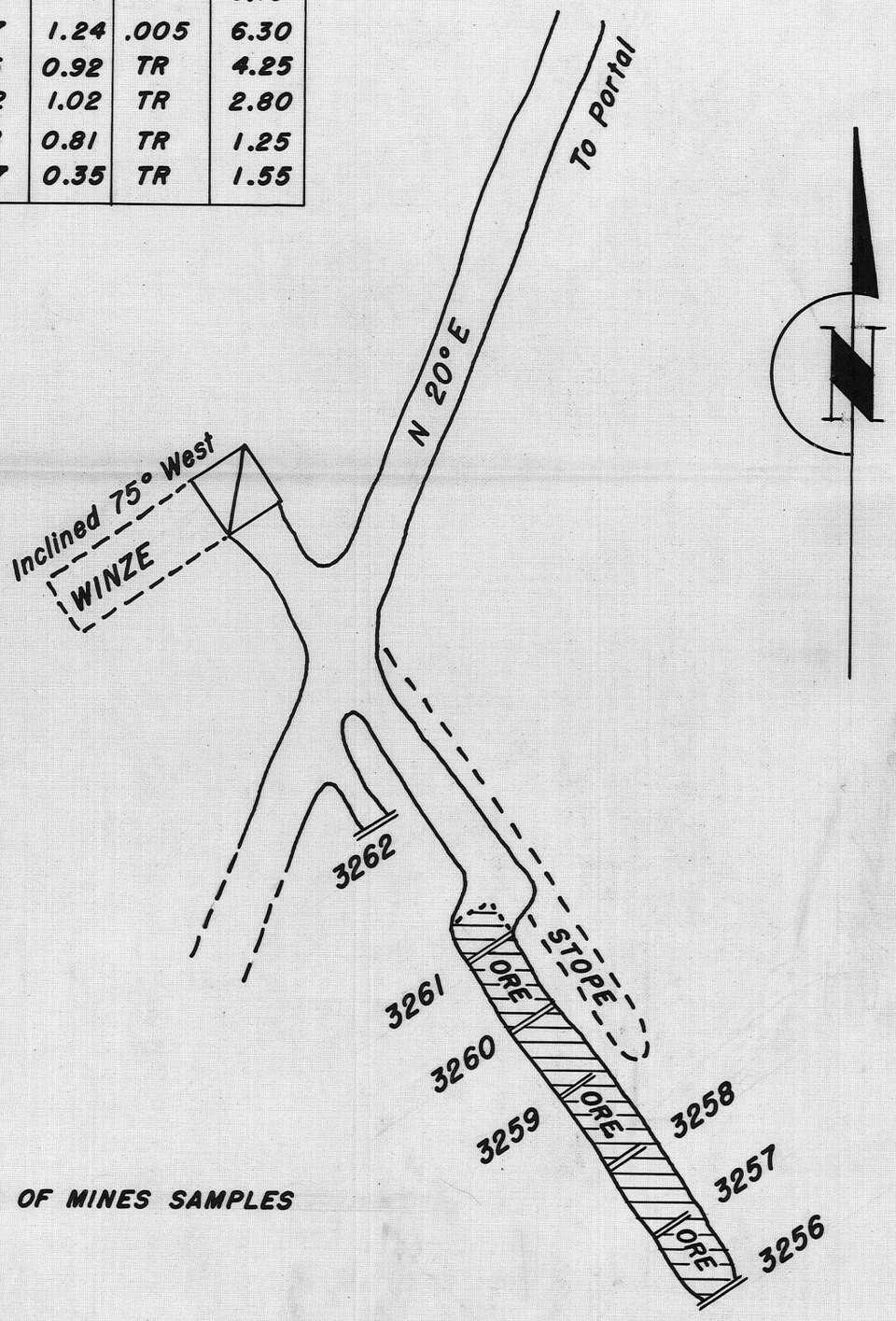
As the property is one producing essential metals for the war effort and as our engineers have examined the property and the R.F.C. have approved and have granted a loan, I feel fully justified in certifying for the need of this equipment for the mine operations and would appreciate your assisting Mr. Norris in this matter.

Yours very truly,

J. S. Coupal, Director

JSC:LP

BUREAU OF MINES SAMPLES						
NO.	WID.	% PB	% ZN	% CU	OZ. AU	OZ. AG
3256	5.0'	0.1	7.0	6.02	.010	13.90
3257	4.9'	0.2	4.4	3.70	.005	.7.75
3258	4.5'	0.4	6.6	0.99	TR	6.10
3259	3.8'	0.1'	4.7	1.24	.005	6.30
3260	3.5'	0.1	4.5	0.92	TR	4.25
3261	4.0'	0.1	4.2	1.02	TR	2.80
3262	3.0'	0.1	1.8	0.81	TR	1.25
3263	DUMP	0.1	3.7	0.35	TR	1.55



// 3256 etc. BUREAU OF MINES SAMPLES

0 20' 40' 60'

SCALE

Sept., 1943— Workings accessible

3263— Sample of dump material from winze

FIG. 8-SAMPLE MAP OF DETROIT MINE