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Arizona Geological Survey
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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: ABE LINCOLN

ALTERNATE NAMES:
COPPER NO. 1, PATENTED
COPPER NO. 2
ANDREW JACKSON
TOM JEFFERSON
CUMBAC

YAVAPAI COUNTY MILS NUMBER: 375A

LOCATION: TOWNSHIP 8 N RANGE 3 W SECTION 11 QUARTER S2
LATITUDE: N 34DEG 02MIN 48SEC LONGITUDE: W 112DEG 32MIN 35SEC
TOPO MAP NAME: MORGAN BUTTE - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
COPPER
COPPER OXIDE
CALCIUM CALCITE
URANIUM
GOLD
SILVER
FLUORINE FLUORSPAR

BIBLIOGRAPHY:
ADMMR ABE LINCOLN FILE
ELEVATORSKI, E.A., ADMR AZ FLUORSPAR, 1971
PP 36-37
BLM MINING DISTRICT MAP 255
GRANGER, H.C. ET AL "RECONN STUDY OF URANIUM
DPSTS IN AZ" USGS BULL 147-A, P A-44; 1962
ADMMR ABE LINCOLN COLVO FILE
CLAIMS EXTEND INTO THE N2 SEC 14

ABE LINCOLN MINE

YAVAPAI COUNTY
BLACK ROCK DIST.
T8N R3W Sec. 11

Yavapai County MILS Index #375A

AKA: Copper No. 1, Copper No. 2, Andrew Jackson, Tom Jefferson, Cumbac

BLM Mining District Sheet 255

Production Possibilities of the Marginal

Copper Mines in Arizona p. 46 - Abe Lincoln Mine
" " " " p. 66 - Copper Group

AEC 172-490 p. 125

DMR Fluorspar P. 36

ABM Bull 180, p. 354

USGS Bull 782, p. 183

USGS Bull 1147-A, p. A44, 45

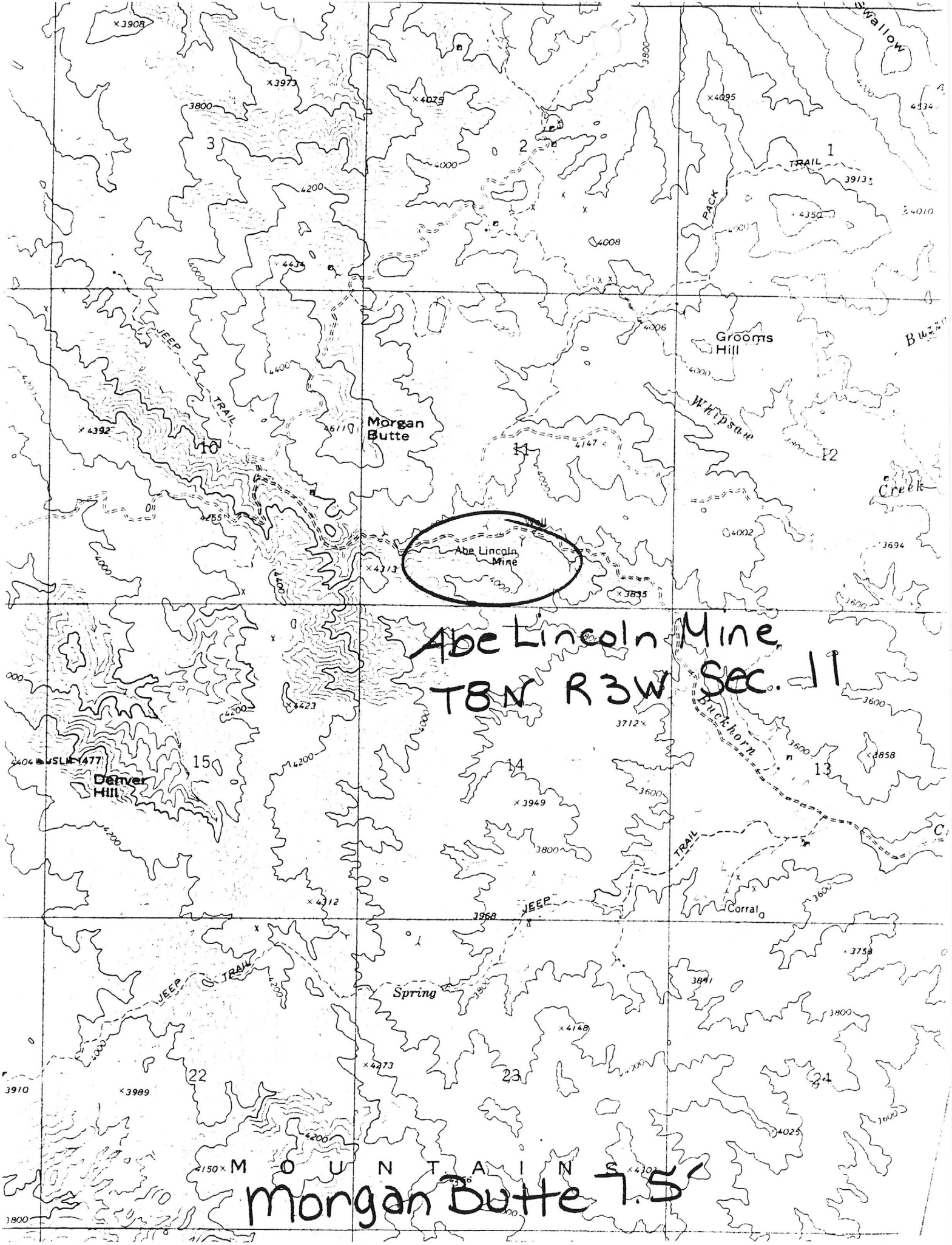
Arizona Mining Journal June 1917, p. 21

Sept. 1919, p. 18 - AZ Mining Jnl.

April 1920, p. 62 - AZ Mining Jnl.

Colvo File

Morgan Butte 7.5' Quad (included in file)


Morgan Butte
Grooms Hill
Abe Lincoln Mine
Denver Hill
Corral
Spring
JEEP TRAIL
PACK TRAIL
Whipsaw
Buckhorn
Swallow
Creek
M O U N T A I N S
Abe Lincoln Mine
T8N R3W Sec. 11
Morgan Butte 7.5'

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM-K 427 Limonite with azurite

Yavapai County

Abe Lincoln Mine

MILS # 3754

5-AKA's

ABE Lincoln / File

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

~~December 10, 1957~~

February 10, 1958

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

COPPER GROUP	COPPER
(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,
Director.

OPENED IN ERROR

PHOENIX FEB 10 7 30PM 1958 ARIZ.

PRAY FOR PEACE

UNITED STATES POSTAGE THREE 3 CENTS

Returned to Writer

REASON CHECKED:
Unclaimed..... Refused.....
Unknown .....
For better address.....
Moved, Left no address.....
No such office in state.....

Mr. John Carroll

Wickenburg, Arizona

Not for John McCarroll at the SUN
TRY JACK CARROLL?

May 22, 1945

Mr. Edward B. Ashurst
Attorney at Law
Wickenburg, Arizona

Dear Mr. Ashurst:

In looking over our files pertaining to information on the Abe Lincoln Mine I find nothing that would be of direct value to you, inasmuch as our information pertains to application for access road.

However, if you wish to run down some operational data, look in Weed's Handbook of copper from 1918 to 1925 and you will find a report of the Abe Lincoln Mine. These handbooks can be reviewed at the public library here in Phoenix, of which they have about five copies.

Sorry that we don't have any other information that would be of value to you, but I am sure that your wants will be furnished from review of the mentioned handbooks.

Yours very truly,

A. C. Nebeker
Field Engineer

ACN:LP

Make file

May 17, 1945

Abe Lincoln

MEMORANDUM

TO: MR. A. C. NEBEKER, Field Engineer
Arizona Department of Mineral Resources

FROM: GRACE M. SPARKES, Secretary
Yavapai County Council ASMOA

1. Mr. Ed Hill, P. O. Box X, Wickenburg, Arizona, called May 16th, and advised he was very much interested in receiving from you a letter expressing your views on the Abe Lincoln Mine. He said he had parties ready to take it over immediately if he received a letter from you. Please discuss this with me immediately.

2. Attached is application of W. R. Pike and Dan Irvin who were in May 16th. They have purchased Louis Milner's equipment and are leasing the Emma Mine from Ernest Clark, 28% lead, 1 oz. gold, and 7 oz. silver. Mr. Pike has sold his business in the Eureka district and they are actively engaged in mining. That have an Ingersoll Rand 110 Compressor, 1 hammer. They plan 2 rounds a day, running commpressor 5½ hours a day, and the compressor used one gallon of gasoline per hour. They are asking for 100 gallons per month. Please see me about this also.

January 8, 1945

Mr. J. M. Moroney
R. 410, 123 W. Madison Street
Chicago, Illinois

Dear Sir:

The Phoenix Chamber of Commerce has handed us your inquiry of December 30 regarding the White Gold Mining Company.

We have no record of this company but we do know the Abe Lincoln claim in that neighborhood and presume it is the same. It is now known as the Abe Lincoln mine.

If this is the case this mine has already received and expended an R.F.C. loan of about $15,000 and also obtained an access road. After this money was expended a further loan was applied for but refused by the R.F.C. This does not necessarily mean that the project is not worth while as they have certain rules and regulations that cannot always be met.

We understand that Mr. E. I. Mills of 4553 North 8th Street, Phoenix, is a half-owner in this property and if you will contact him direct, he can no doubt give you much detailed information.

We will be glad to be of service to you in any further way we can.

Yours very truly,

Chas. H. Dunning
Director

CHD:LP

Washington, D.C.
March 25, 1943

SUBJECT: C-ND-7530
Abe Lincoln
E. I. Mills

I have been so busy that I overlooked a memo to tell you that the Abe Lincoln loan was granted the 19th.

You may know about it from Mills by now.

Bill Broadgate

March 13, 1943

MEMORANDUM

SUBJECT: Supplementary Loan
Docket C-ND-7530
Abe Lincoln Mine
E. I. Mills and
F. P. Bracken

TO: W. C. Broadgate

FROM: J. S. Coupal

On March 4 Ed Mills submitted his expenditures under the "C" loan, Docket C-ND-7530, and made application for a supplementary loan of $2500 to complete the work. I believe this was with Bill Gohring's approval.

Mills has asked me to check up with you on this and see how soon he can expect an approval. If you can get anything definite on this Monday, please wire the status of this loan and when he can expect confirmation or authorization to E. I. Mills, Wickenburg, Arizona, collect, on Monday or Tuesday.

The mine is now unwatered and Ed Mills is keeping the water down at his own expense costing him at least $15 a day. He is sitting tight waiting for the supplementary loan. For his own personal reasons he does not want to bother Gohring on this, so I am asking you to check up and let him know.

alc forwd w

December 8, 1942

Mr. Frank P. Bracken
Box 94
Wickenburg, Arizona

Dear Mr. Bracken:

Many thanks for your letter of December 3.

I will admit that my first impression was that you were criticizing the way Mr. Mills was handling his job. This is perfectly O.K. but under the Reconstruction Finance Corporation's rulings, no provision is made for supervision other than by the man to whom the loan has been granted. I have known of several instances where I wished to interfer but felt as though it was not my duty.

Many thanks for your explanation and I do know that we should all do our utmost in keeping up the work and getting the loans and seeing that the actual field work is expedited. We are doing our utmost along these lines.

Very truly yours,

J. S. Coupal
Director

JSC:kk

Wickenburg, Ariz.
Box 94
December 3, 1942

DEPT. MINERAL RESOURCES
RECEIVED
DEC 5 1942
PHOENIX, ARIZONA

Mr. J. S. Coupal
413 Homebuilders Bldg.
Phoenix, Arizona

Dear Mr. Coupal:

I am afraid that I left the wrong impression when I was in your office today.

When I mentioned Mr. Mills, and the Abe Lincoln, I am afraid that the impression that I gave was that Mr. Mills was unnecessarly stalling the work, and otherwise not living up to his contract. Such is definately not what I ment. He is very concious of his obligation and is trying to live up to it to the letter. I ment to cite him as an example of one way of applying the loan. Which leads back to the question that I had, and didn't clear up.

I realize that your office is working to the breaking point now. When I talked about rushing, I ment in regards to the work on the loans after they were completed.

I hope this clears up our conversation.

Yours very truly,

Frank P Bracken

August 18, 1942

Mr. Edward I. Mills
Rte. 2, Box 76
Phoenix, Arizona

Dear Ed:

We are very anxious to keep posted on just what information you get from Washington on the preliminary development loan. We are using your application as a sort of a yardstick to know just how long it takes to get a loan and have the money available for work.

I would greatly appreciate it if you could keep us posted as to just when you receive any word and the mechanics you go through in obtaining the money and getting to work.

With best wishes and kindest regards, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP

June 4, 1941

Mr. John Carroll
Wickenburg, Arizona

Dear Mr. Carroll:

Many thanks for yours of recent date giving us more complete information on the ore reserves at your property. This now completes our file on your mine.

Thanking you again for so promptly responding, and with kindest personal regards, I am

Yours very truly,

Chairman, Board of Governors
Arizona Department of Mineral Resources

CFW:LP

May 29, 1941

Mr. John Carroll
Wickenburg, Arizona

Dear Mr. Carroll:

Many thanks for the information regarding the Copper Group. We are sorry that you did not give us the information regarding ore occurence or ore reserves. Having a map of the workings does not suffice, as there is no method for us to figure the tonnage of ore reserve and the average values, and we feel that the government authorities will want that information. If you can give that data to us, even approximately, we would be pleased to have it.

We are anxious to send in a report sufficiently complete so that there will be no comeback for further details and, therefore, no delays in putting over our proposal. If, however, we fail to give complete information on the first report, we are bound to encounter delay.

Trusting that we will hear from you on these two points, and with kindest personal regards, I am

Yours very truly,

Chairman, Board of Governors
Arizona Department of Mineral Resources

CFW:LP

May 27, 1941

Mr. John Carroll
316 E. Moreland
Phoenix, Arizona

Dear Mr. Carroll:

I have received the questionnaire that you returned regarding the Copper Group.

It would appear very evident that your property will well qualify to be in this report and, therefore, we would like to get some additional information, as we hope to include a brief statement regarding each property that is being reported upon.

I am enclosing another questionnaire which will give us the data that we want for this brief statement. We would appreciate your making it concise.

Trusting that we will have it back shortly, and with kindest personal regards, I am

Yours very truly,

Chairman, Board of Governors
Arizona Department of Mineral Resources

CFW:LP
Enc.

Wickenburg Ariz
July 2, 1941
Box 94

Mr. Charles Willis
Phoenix Ariz

Dear Mr. Willis

After considering my estimate of the cost of beginning operation, which I made in a hurry, I find that I was a way low. To get to the high grade shipping on the mine has to be cleaned up and timbered this would take considerably more than I estimated. To put it to where I could produce the amount of copper it would cost around $15,000. This would include a 25 ton mill to work the surface ore of which a good deal is mined. This could be put in operation in 20 to 30 days.

I arrived at the copper tonnage in this way. I can ship a car of 8 to 10% copper a day and the surface production would bring it up to the amount of copper I gave you. Around 1800 tons of copper a year.

By checking the report and this letter you should be able to get a pretty good idea of the development. These estimates and figures are based on knowledge obtained while I was foreman at the mine. Several years.

I will gladly furnish any further information you may desire.

Yours Very Truly

Frank P. Bracken

July 1, 1941

Mr. Frank P. Bracken
Box 94
Wickenburg, Arizona

Dear Mr. Bracken:

I wish to acknowledge your questionnaire regarding the potential copper production from the Abe Lincoln mine. We note that you say that in answer to the question, "How much copper could this property produce annually on a 14 cent price" "1,825 tons". I am wondering whether you mean tons of ore or tons of copper, as this is quite a considerable production of copper, particularly when there is only a $5,000 investment. I would appreciate your further explanation of this.

In order to save time we would like very much to get the data asked for on this second questionnaire which is enclosed. We desire to give a short story in our report regarding each of the potential copper producers that are listed therein. This story will be in line with the questions asked on this sheet.

We hope that you can get this back to us promptly, as it is almost time to get this report to Washington.

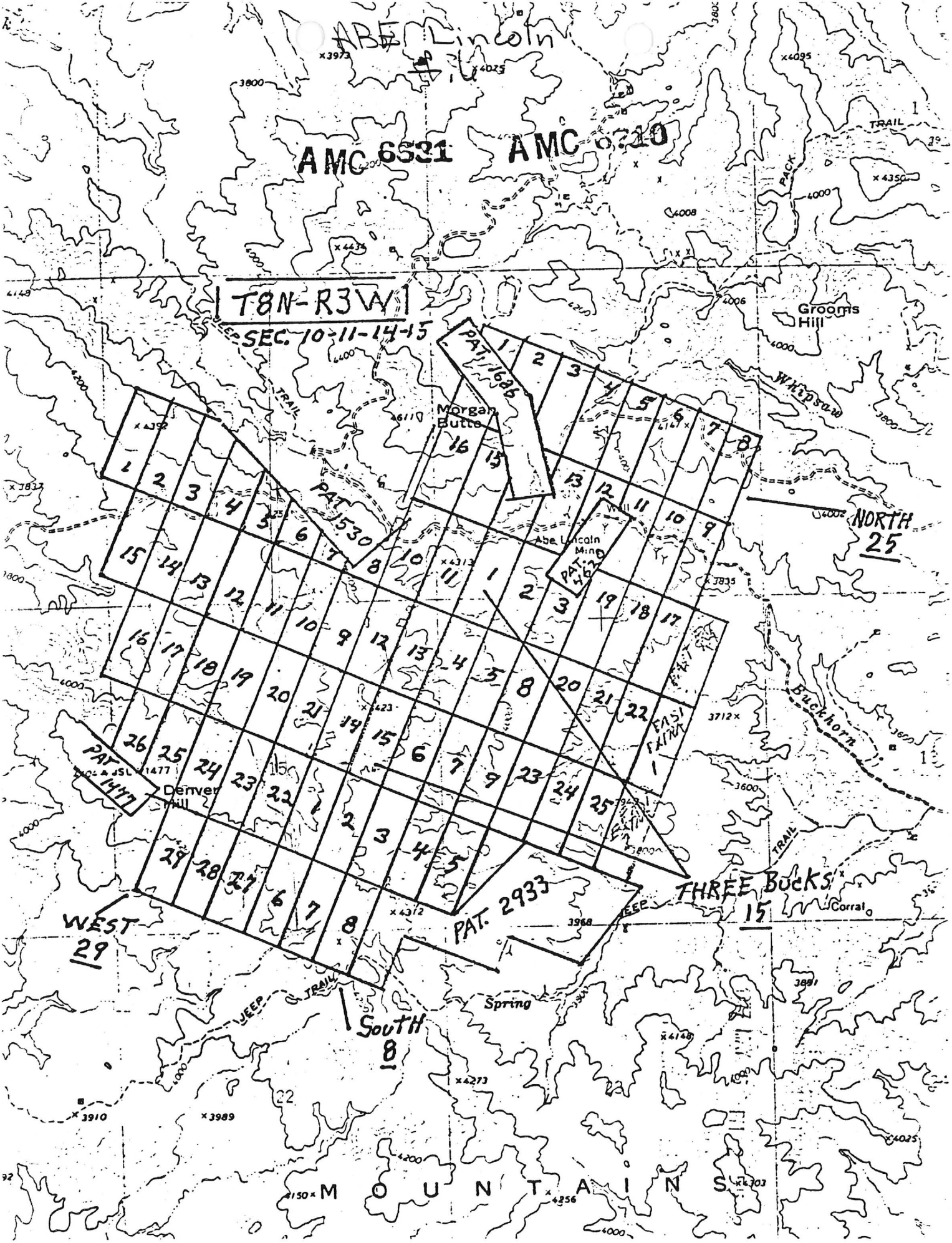
Thanking you again, and with kindest personal regards,

I am

Yours very truly,

Chairman, Board of Governors
Arizona Department of Mineral Resources

CFW:LP
Enc.


ABE Lincoln
AMC 6531
AMC 6710
T8N-R3W
SEC. 10-11-14-15
PAT. 1686
PAT. 530
PAT. 1477
PAT. 2933
Morgan Butte
Grooms Hill
Abe Lincoln Mine
Denver Hill
Whipsaw
Buckhorn
THREE BUCKS
Corral
Spring
NORTH 25
WEST 29
South 8
15
TRAIL
JEEP
PACK
M O U N T A I N S

Do Not Reproduce

Mr. William F. Kelsey & Associates, Box 1264, Wickenburg, Arizona, says he is patenting the Abe Lincoln Mine. 8-8-60

William Kelsey, Engineer at the Abe Lincoln mine, was in to show some chalcopyrite ore from the Abe Lincoln mine. Mr. Kelsey felt encouraged by recent discoveries and said that they had shipped a car of 22% copper ore recently. LAS WR 9-16-60

LeRoy K. Smith, 640 Shield Street, Fort Collins, Colorado called about the status-quo of the Abe Lincoln. It seems that he and some others have had the Copper Group (or Abe Lincoln Group) since 1962. According to his summary the mine is in S11, 14, T8N, R3W.
F. L. Robinson took over the Copper S-1 & S-2 Claims and added more (10 unpatented claims) in 1950 and began work in 1951 and in 1951-52 2 cars were shipped (1 to Hayden and one to Magma at Superior). The one to Superior ran 4.68 percent Cu and 19.7% CaO, with a little Au and Ag. By the end of 1952, Robinson and partners had spent $125,000 in development work, etc. In December 1952, M. J. Elsing, Cons. Engr. U.S. Bureau of Mines, and R. W. Adgeton, Min. Engr. reported an estimated cost of mining of 34½ cents per lb. and recommended that a $10,000 loan be made for development (Homer Henny, 1038 N. 48th Street, Phoenix, 275-1644 can be called to reach Smith). LAS WR 9-30-66

WR GW 7-9-77 - Went with Russ French to Abe Lincoln Mine where radioactivity was picked up on the dump in altered diabase similar in appearance to that on the Rattler claims.

WR, GW 10/4/77 - Russ French, Phoenix came in to discuss his uranium prospect near the Old Abe Lincoln mine N.E. Of Wickenburg. He thinks he wants to build a small mill. It was suggested he have a milling test run before buying any equipment.

MG/WR 9/7/79 - Mr. Russ French reported that four core holes were drilled in 1978 at the Abe Lincoln Mine in Yav. Co. Drilling was done for an unknown company.

ABE LINCOLN MINE

YAVAPAI COUNTY
Black Rock and
Castle Creek District

NJN WR 1/27/84: Orville "Bob" Whitaker, P.O. Box 20907, Wickenburg, AZ 85358 684-3704 visited and reported he had been working for Uranez (c) for a short while. He reported their local activities are being reduced due to a funding cut back. Operations at the Abe Lincoln, Tip Top, Bluetank District, and Three Bucks, Yavapai County are likely to stop and Uranex is currently throwing away 30,000' of core from their drilling project there.

RECORD 00002

CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION
RECORD NO..... M003408
RECORD TYPE..... X1
COUNTRY/ORGANIZATION. USGS
INFORMATION SOURCE... 1
MAP CODE NO. OF REC..

REPORTER
NAME..... JOHNSON, K. H.! CREASEY, S. C.
AFFILIATION..... USGS
DATE..... 79 03 (81 8 10)
BY..... JOHNSON, K. H.! CREASEY, S. C.(LARAGA, PETER (DEWITT, ED))

NAME AND LOCATION
DEPOSIT NAME..... ~~ABE LINCOLN PROSPECT~~ A10 (ABE LINCOLN MINE)

MINING DISTRICT/AREA/SUBDIST. ~~CASTLE CREEK DISTRICT~~ A30 (BLACK ROCK DISTRICT)

COUNTRY CODE..... US
COUNTRY NAME!
UNITED STATES

STATE CODE..... 04
STATE NAME!
ARIZONA

COUNTY..... YAVAPAI
DRAINAGE AREA..... 15
PHYSIOGRAPHIC PROV..... 11
LAND CLASSIFICATION..... 01

QUAD SCALE: 1 24000
QUAD NO OR NAME: MORGAN BUTTE

LATITUDE: 34-02-44N
LONGITUDE: 112-32-29W

UTM NORTHING: 3768100.
UTM EASTING: 357730.
UTM ZONE NO: +12

TWP..... 008N
RANGE.... 003W
SECTION.. 11
MERIDIAN. G & SR
A76 (S½)

ALTITUDE.. 3880 FT

POSITION FROM NEAREST PROMINENT LOCALITY! 14 MILES BY ROAD NE OF WICKENBURG

COMMODITY INFORMATION

the Abe Lincoln vein system, the most noticeable difference being the fluorite in the calcite gangue. Perhaps the uranium-bearing rock on the dumps came either from local fluorine-rich pockets in the Abe Lincoln vein system, or from some other vein, separate from or intersecting the main system.

Samples from a vein on a property about a mile west of the Abe Lincoln mine contained 0.006 and 0.012 percent U and a sample that contained 0.012 percent U was taken from an exposure of the metamorphic rocks in a road cut a little less than a mile west of the mine. Although these samples do not in themselves contain much uranium, they indicate that the area around the Abe Lincoln mine may contain minable deposits of low-grade uranium ore.

CUBA AND INDEPENDENCE CLAIMS

The Cuba and Independence claims are adjacent to one another in T. 11 N., R. 5 W., approximately 7 miles north-northwest of Yarnell. On the Cuba claim there is an 18-inch quartz vein, striking N. 52° W. and dipping 25° NE., in a coarse-grained buff-colored granite. The mine workings comprise a 125-foot inclined shaft connecting with a 150-foot adit drift. For about 25 feet along the drift, flecks of what seems to be torbernite occur sparingly in a narrow zone on the footwall side of the vein. A chip sample across this zone contained 0.009 percent U.

Within a hundred yards of the Cuba workings and on the Independence claim, a thin coating of uranophane(?) was found on an exfoliation surface in the coarse-grained granite country rock. A selected sample of the material contained 0.016 percent U. The country rock in the vicinity is abnormally radioactive, though not uniformly so. As measured with a scintillation survey meter, the background radioactivity was 0.015 to 0.020 mr per hr and the radioactivity of the granite ranged from 0.035 to 0.140 mr per hr. The highest readings were obtained at the exfoliation surface; the average reading was between 0.040 and 0.050 mr per hr. A representative sample of the granite contained 0.004 percent eU.

KITTEN NO. 1 CLAIM

The Kitten No. 1 claim is in the SW¼ sec 27, T. 15 N., R. 9 W., about 155 feet west of the Hillside mine road and 4.3 miles from Bagdad. It was owned in 1951 by W. D. Moore of Bagdad. The country rock in the area is a coarse-grained porphyritic granite, of Precambrian age, cut by many narrow pegmatite and aplite dikes. Most of the dikes are roughly parallel to the most prominent joints, which strike N. 23° W. and dip 85° NE. Development in 1951 consisted only of one shallow prospect pit.

The uranium deposit extends along a fracture that strikes N. 88° W. and dips 60° N., at a large angle to the regional structural trend, and that forms a well-defined footwall for the deposit. Metatorbernite, pyrite, and fluorite are disseminated in a zone of intensely altered rock 3 to 4 feet wide. Within this zone most of the feldspar is changed to clay, yet most of the biotite retains its original form and luster. Much of the altered material, and the minor fractures bordering the hanging wall, are intensely iron stained. The deposit is only about 15 feet long at the surface, and probably is shallow. The footwall fracture is traceable for about 50 feet, being marked by a narrow quartz filling and limonite stain. Several nearby fractures have the same attitude and contain minor amounts of quartz and limonite, but they are not radioactive.

Two channel samples across the most radioactive part of the deposit contained 0.094 and 0.013 percent U. The first sample seems to have been strongly leached, for its radioactivity was equivalent to 0.20 percent U.

The relation of this deposit to other uranium deposits in the area is not known. The deposit is only about 3 miles from the Hillside mine from which uraninite has been identified, but there is no reason to believe that the two occurrences are closely related.

PEEPLES VALLEY MINE

The Peeples Valley mine is in the Weaver Mountains, about 20 miles southwest of Prescott. Its workings consist of a 20-foot shaft and several opencuts. The deposit is in a lenticular mass of quartz-feldspar pegmatite in coarse-grained granite. The pegmatite strikes about N. 40° E. and dips from 70° NW to nearly vertical. Its outcrop is about 300 feet long and 150 feet wide.

In 1953 a small amount of scrap mica was produced from the mine. In addition to numerous though small books of muscovite, the pegmatite contains small quantities of beryl and probably niobium-tantalum minerals. Although assays indicate the presence of uranium and thorium, no primary radioactive minerals were identified. The uranium occurs in yellow secondary minerals, predominantly uranophane, and possibly also in niobium-tantalum minerals.

Three samples obtained from the few small concentrations of radioactive material in the mine contained 0.004 to 0.13 percent U and 0.032 to 0.078 percent Th. A selected sample from the most radioactive spot in the mine contained both the most uranium and the most thorium.

Abe Lincoln

COMMODITIES PRESENT..... ~~CU U FL~~ C10<CU AG AU>

PRODUCER(PAST OR PRESENT):
MAJOR PRODUCTS.. CU
~~MINOR~~ <AG AU> MINOR

~~MAIN COMMOD.... CU~~
~~MINOR COMMOD.... U~~

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):
POTENTIAL.....
OCCURRENCE..... U

MAIN ORE MINERALS:
CHALCOPYRITE, URANITE

MINOR ORE MINERALS:
AZURITE, MALACHITE, CHALCOCITE, FLOURITE, SCHOEPITE

COMMODITY COMMENTS:
THE SURROUNDING AREA MAY CONTAIN MINABLE LOW-GRADE U

ANALYTICAL DATA(GENERAL)
SAMPLES FROM DUMPS: 0.46 % U

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 4

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
VEIN: SHEAR ZONE
FORM/SHAPE OF DEPOSIT:

[illegible]/DIRECTIONAL DATA
SIZE OF DEPOSIT..... SMALL
MAX WIDTH..... 5 FT
STRIKE OF OREBODY.... N 50 E
DIP OF OREBODY..... 84 NW
COMMENTS(DESCRIPTION OF DEPOSIT):
VEINS IN FAULT ZONE

DESCRIPTION OF WORKINGS
UNDERGROUND
~~SURFACE AND UNDERGROUND~~
DEPTH OF WORKINGS BELOW SURFACE. 660 FT
LENGTH OF WORKINGS..... 3150 FT

PRODUCTION
YES
SMALL PRODUCTION

PRODUCTION COMMENTS.... NO U PRODUCTION TO 1962

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS.....PREC
HOST ROCK TYPES.....GNEISS AND SCHIST COMPLEX

AGE OF ASSOC. IGNEOUS ROCKS...PRECIMES
IGNEOUS ROCK TYPES.....TOURMALINE GRANITE; FELSIC AND MAFIC DIKES

LOCAL GEOLOGY

SIGNIFICANT LOCAL STRUCTURES:
PREDOMINANT STRUCTURAL TRENDS: N 50 E, N 32 - 45 W.

F3 < Az. Min. Jour., v.2, #7, p.6-8 (1918) >

COMMENTS (GEOLOGY AND MINERALOGY):
SCHOEPITE WAS FOUND AND INDICATES THAT URANITE IS ALSO PRESENT.

GENERAL COMMENTS
OPENED IN 1917 AS A COPPER PROSPECT, PRODUCING A SMALL AMOUNT OF COPPER ORE.
< ABM Bull 180, p. 354 >

GENERAL REFERENCES
1) GRANGER, H.C. AND RAUP, R.B., 1962, RECONNAISSANCE STUDY OF URANIUM DEPOSITS IN ARIZONA: U.S.G.S. BULLETIN 1147-A, P. 45.

add entire Geology Section

GEOLOGY

*AGE OF HOST ROCK(S)	K1	PROT., TERT., W. UNDATED, BUT PROBABLY 1750 MILLION YEARS AND OLDER; UNDATED, PROBABLY PALEOCENE-MIOCENE
*HOST ROCK TYPE(S)	K1A	GRANODIORITE, GRANITE, GRANITIC GNEISS, SCHIST; RHYOLITE ANDESITE
*AGE OF IGNEOUS ROCK(S)	K2	PROT., TERT., W. AS LINE K1
*IGNEOUS ROCK TYPE(S)	K2A	GRANODIORITE, GRANITE; RHYOLITE, ANDESITE (?)
*AGE OF MINERALIZATION	K3	PALEO-MIO., W. UNDATED, PROBABLY MID-TERTIARY
*PERT. MINERALS (NOT ORE)	K4	QUARTZ,
*ORE CONTROL/LOCUS	K5	FAULTING, SHEARING, IGNEOUS ACTIVITY - DIKES
*MAJ. REG. TRENDS/STRUCT.	N5	FOLIATION IN PRECAMBRIAN SCHIST AND GNEISS TRENDS N25E TO N65E
*TECTONIC SETTING	N15	
*SIGNIFICANT LOCAL STRUCT.	N70	VEINS (AND GENETICALLY-RELATED(?)) DIKES TREND N10W TO N40W AND CROSSCUT PRECAMBRIAN FABRIC
*SIGNIFICANT ALTERATION	N75	MINOR TO NONE
PROCESS OF CONC./ENRICH.	N80	OXIDATION AT NEAR SURFACE
FORMATION AGE	N30	PROT., W. UNDATED, PROBABLY 1750 MILLION YEARS OR OLDER
FORMATION NAME	N30A	UNNAMED GNEISS, SCHIST
SECOND FM AGE	N35	W.
SECOND FM NAME	N35A	
IGNEOUS UNIT AGE	N50	PROT., W. AS LINE N30
IGNEOUS UNIT NAME	N50A	UNNAMED GRANODIORITE, GRANITE
SECOND IG. UNIT AGE	N55	PALEO-MIO., W. UNDATED, PROBABLY MID-TERTIARY
SECOND IG. UNIT NAME	N55A	UNNAMED RHYOLITE, ANDESITE (?) DIKES
GEOLOGY COMMENTS	N85	DEPOSIT IS HIGH-ANGLE QUARTZ VEIN WHICH IS ASSOCIATED WITH RHYOLITE OR ANDESITE DIKES OF PROBABLE MID-TERTIARY AGE THAT CUT PRECAMBRIAN IGNEOUS AND METAMORPHIC ROCKS

ABE LINCOLN MINE Do Not Reproduce YAVAPAI CO.

1/19/79 KP/WR - The Abe Lincoln patented mine is within the claim group consisting of the North 1-25, Three Bucks 1-15, South 1-8, and West 1-29, Black Rock Mining Dist., Yav. Co., Morgan Butte U.S.G.S. 7 - 1/2 minute Topo map, but excluded from the claims. 2/21/79 a.p.

GM WR 5/1/79 - Visited the Abe Lincoln/no activity. 6/20/79 a.p.

CJH WR 5/9/80: Glenn Miller came in and reported a large, new dredge two or three miles east of the Abe Lincoln mine, southern Yavapai County. Its pond had been washed out during the winter floods and subsequent flooding has partially buried it in gravel and sand. He didn't know who owns it.

NJN WR 5/22/81: Wayne Agee (card) was in with some information on the Abe Lincoln Mine, Yavapai County (file). He reported that Leo Maybe from Washington, has acquired the property from he and Harold Best. The URANUS Corp. now has a contract with Leo Maybe. The next time he drops by the office he promised to bring a copy of a geologic report. Done by Pincock, Allen and Holt.

DAP WR 8/26/82: Russ Franch reported that Longyear (a drilling contractor) is drilling for Uranez USA on the Abe Lincoln Mine in the Blue Tank-Black Rock District, Yavapai County.

NJN WR 6/3/83: Production data was received for the Abe Lincoln MIne in Black Rock District, Yavapai County, from the Bureau of Geology and Mineral Technology and placed in the file.

NJN WR 7/15/83: Drilling by Uranerz U.S.A. was observed in the Abe Lincoln Mine, Yavapai County area.

NJN WR 1/6/84: Russ French reports Uranerz Inc. appears to have pulled out of the Abe Lincoln and Tip Top, Blue Tank District, Yavapai County. They recontoured and reclaimed their drill roads and sites about the first of September and have apparently not been active on their holdings since.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine: Abe Lincoln

Date: June 3, 1983

District: Black Rock (Castle Creek)

Engineer: Nyal J. Niemuth

Subject: Recorded Production

Recorded production from the Abe Lincoln Mine, Yavapai County, according to an abstract of the U. S. Bureau of Mines data, was obtained from the Arizona Bureau of Geology and Mineral Technology.

Production is recorded for period from: 1917 - 1960

Cumulative totals are:	Tons of Ore	793
	Pounds of Copper	44,500
	Pounds of Lead	
	Troy oz. gold	9
	Troy oz. Silver	80

Development and Ore Available.

Development consists of an older #1 shaft, now caved, 650 ft deep, with drifts on several levels, as described in the Jenkins(1929) report.

Also an adit tunnel on the main vein, also a #2 shaft, and a drift on its 200 level (378 level of the #1 shaft) as described in the Fleming report. Since Mr. Fleming's report the S.W drift on the 200 level of this shaft has been further cleaned up and retimbered so that this ore now shows a length of about 350 ft instead of 160 ft as reported by Mr. Fleming. And the part that Mr. Fleming did not see is the best.

Much of this drift on this 200 level is timbered tight and the vein could not be inspected. But the manner of timbering itself, indicates that the higher grade spots along this course were gouged out, and that the ore is quite continuous throughout this length. This is verified further by inspection at accessable spots, old stopes, and in the floor. There has beenlittle actual tonnage removed in the roof of that level - only hot spots for a few feet in height.

I doubt if any appreciable amount of ore can be economically mined above the adit, or tunnel, level. This level is only a bit below the zone of oxidation, and the oxidized ore, even if fair grade, is not high enough in grade to ship direct, and not amenable to ordinary milling processes.

All indications are however that there is a block of ore between the adit level and the 200 level of #2 shaft (378' on #1) that is 350 ft long, 200 ft deep, and 4 ft wide. This would be about 23,000 tons, but it would be well to reduce this to 20,000 tons, because, in order to hold the grade up to 3.0% mill head it may be necessary to leave some of the lower grade spots as pillars, and to offset the dilution caused by barren material from the dyke.

I believe however that such can be done, i.e, produce 20,000 tons of 3.0% (also carrying $2.00 in gold and silver) ore, from this block of ground. It may require careful underground management to thus hold the grade, and it will require careful overall management to produce a profit from such ore. But it can be done.

A more inducive situation is the very probable downward expension of this shoot of ore, Copper values seem to be increasing in depth, which is not unusual for this type of deposit, where the deposition has taken place according to natural climes. In other words indications

are that this present 200 level is in a natural zone where iron predominates, whereas at a reasonably deeper level there will be a zone where there will be less iron and more copper.

This district(the area east of Wickenburg) is often considered by the old-timers as one where the values do not go down to much depth. This may be very tru for gold, silver, lead, zinc, and secondary copper. But once an ore body of primary copper is proved, and of commercial grade, there is no reason why it should not extend to good depth, and probably increase in copper content as it approaches its deep seated source toward the heart of a primary copper zone.

Milling.

It is understood that the Monte Cristo Mill is available for your use. It is a short haul from the Abe Lincoln and could be made shorter. This mill was inspected and run. It should have a capacity of about 2½ tons per hour on Abe Lincoln ore. It appeared to be in good shape mechanically, and the flow sheet properly arranged for Abe Lincoln ore.

The Abe Lincoln ore would be very amenable to ordinary flotation, and an extraction above 90% should be obtained. Bulk flotation as now practiced will produce a concentrate high in iron, but if the economics of shipping a high iron concentrate so indicate, some of this iron could be dropped in the flotation process.

Capacity of the mill could be increased by adding some secondary crushing, such as rolls, and more float cells.

Recommendations

The following appeal to me as pertinent requirements essential for successful operation:

(1) Survey and map the present workings, and prominent surface features in the area of the workings, such as outcrops, dykes, and faults.
   (1a) This can be extended later to include additional areas of potential importance.)

(2) Connect the 200 level of #2 shaft with the #1 shaft. (Connecting work to be determined after survey).

(3) Run a raise on the ore from the 200 level to the adit level. This will facilitate ventilation and thus the working of more than one shift. Will also further prove ore, and disclose what may be expected as stopes are extended above the 200 level, thus indicating the most economical mining methods.

(4) Run occassional long-holes crosscutting the formation along the 200 level. This will disclose parallel conditions - possibly considerably more ore - and enable one to better plan the mining technique.
(5) Start stopes with manways and chutes along this ore shoot, leaving occassional vertical pillars, in lean spots, for general support.

For an economic operation is it essential that the mine be in top condition to keep the mill running - full blast - once it is restarted. To do this the above recommendations should be well covered - first.

Conclusion.

The amount of capital required to put this mine in profitable production is comparitively small.

It has good possibilities of becoming a profitable producer with several years of life.

The most important point is management. Good management of a small mine is unusually difficult because such a mine cannot afford a specialist for each phase of its operation.

The margin of profit per ton at your mine is not large - but it is there if properly sought.

Poor management could soon waste such a potential profit, while good management should be able to return many times the total invested capital.

Respectfully Submitted,

March 13, 1957.

March 13, 1957

To: Mr. C. S. Black,
Phoenix, Arizona.

The Abe Lincoln Mine.

Per your request I made a short examination of the Abe Lincoln Mine on March 12.

Purpose of Examination.

The purpose of the examination was to determine whether or not the proved ore and general showing justified the expenditure of additional capital to put the mine in profitable production. To this question the general answer is "yes".

Location, History, Facilities, General Geology, Etc.

These features have been well covered in previous reports: one by Arthur C. Jenkins in March, 1929, and the other by P.W.Fleming in 1956(?). Copies of these reports are attached, and such details will not be repeated here.

Further Geology and Concepts.

The ore veins on the property are of the vein-dyke type. The main vein structure, on which most of the development work has been done, is a diabase dyke, with silicious, copper bearing, ore on both walls. The barren dyke, in the center, varies from 2 ft (or even less) to 4 or 5 ft in width, and the ore, from a pinched condition to 8 ft or more on either or both sides.

The intrusion of the dyke was the mineralizing influence, and the deposition of silica and economic minerals accompanied this intrusion and deposited in favorable areas, but controlled by the natural laws of the zoning of mineral deposition.

This type of vein usually carries its mineral content to good depth, but that does not mean that any one metal or mineral will be deep-seated except primary copper - which will be discussed later.

Often, However, this type of vein, with a barren dyke in the middle, entails some difficulty in mining economically. The best mineralized band may jump from one wall to the other, and it is quite impossible to prevent some dilution of the ore by the barren material from the central dyke. Allowances in costs and grade should be made for this factor.

Information from Mine Inspector's office - August 15, 1957

Abe Lincoln, Wickenburg 1 claim Castle Creek and Black Rock Dist. Yavapai Co. (June 15)

President: Tony Tropovich, Phoenix, Arizona 500 tons

Copper Shaft, drift and shrinkage

LAS

May 27, 1957 - (Copper Group) Yavapai County

No information -

Mark Gemmill

11-23-77 - A map of Black Rock District, and a map of Wickenburg showing points of interest, are filed in the Wickenburg general file. 11-23-77 bh

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Abe Lincoln

Date Mar. 31, 1952

District 14 m. northeast of Wickenburg

Engineer Mark Gemmill

Subject: Present status

The property has been operated during the past two years by E. I. Mills, 5245 N. Central Ave. Phoenix, Ariz. A new shaft was sunk and some drifting done. A small amount of ore was shipped. But at present the property is idle. I was told by Mr. Bracken, former owner of the mine that Mills had made application for an exploration loan, and that more work if planned if and when funds are available.

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Capitol Building, Phoenix, Arizona

Name of property. Copper Group (Formerly Abe Lincoln)

Location and accessibility of property.

Located approximately 15 miles northeasterly of Wickenburg, Arizona on the Buckhorn Wash, reached by a county maintained road to within approximately 1 mile of the property, the balance of the road is down a narrow canyon, requireing occassional work to keep usable.

History of ownership.

Bracken and myself located this property several years ago after the former owners had let title lapse, my understanding is that the considerable development work was done during the last war and for a year or so after, when price of copper made it impossible to operate and keep even.

We have since done our yearly assessment work in opening up the several tunnels and getting stopes ready, so that when the price would show a profit we could get to shipping and or milling.

Production history.

My understanding is that a considerable amount of ore as well as concentrates were shipped prior too 1925.

They at that time had a mill capable of handling 50 tons per 24 hours or better, all equipment was stripped as well as all of the buildings, shortly after 1930.

General geology (brief)

Fissure replacements in Andesite and Schist
Vein widths up to 10 feet

Ore occurrence.

Ore reserve (quantities and values).

Map of workings attached.

Accessory metals of value.

Content Gold,silevr and copper.

Development work done.

As shown on Map attached

Plants (with capacity) already on property.

No equipment on property

Date **May 28th.1941** Signed John Carroll

A ONA DEPARTMENT OF MINERAL RESO ES
Capitol Building, Phoenix, Arizona

Name of property. Abe Lincoln

Location and accessibility of property. 14 miles northeast of Wickenburg, 3 miles south southeast of the Monte Cristo Mine, 9 miles of county road and 5 miles of fairly good mine road. The county grader goes within 1 mile of the mine

History of ownership. The original location is unknown prior to 1920. In 1924 the Lincoln Operating Co. began development work. Due to the low price of copper operations were suspended in 1929. A. G. Walker and E. I. Mills located it and sold the machinery. In 1937 Walker abandoned it and I located it.

Production history. From reports in my possession I know that a considerable amount of ore was shipped. When I became foreman in '23 and '24 outside of development work we shipped 3 cars of concentrates and one of broke ore. The concentrates were 15% copper and $7.00 a ton gold, old standard. The car of ore was 17% copper. The difference in these was due to being taken from two different veins. The latter was from a cross cut vein.

General geology (brief) The surface is rough and broken. The formations are granite and porphery.

C O P Y

Ore occurrence. Solitious ores. From a true fisher vein on the group of claims there are 4 ore bodies or distinct veins of ore. All have been opened on the surface so they can be sampled.

Ore reserve (quantities and values). The ore has been developed to the depth of 600 feet and as much as 1000 feet of drifts on levels but no stoping done. On one of the lower levels we have 270 ft. of drift on 15% copper 4 foot vein. On 350 level there is a 1000 ft. drift. The vein will average 5% copper. Vein averages 5½ ft. in width. On this level the 17% copper occurs in a cross cutted vein.

Accessory metals of value. An average of $3.00 a ton in gold.

Development work done. A 600 foot shaft. Drifts: on the 175 about 800 feet, on 250 a station about 200 ft. of drift and 400 ft. of cross cutting, on 350 there is 1085 ft. of drift. A station cut on the 450. On 600 level 1400 feet of cross cut and drift work. A number of tunnels and cuts on the surface.

Plants (with capacity) already on property. No plant on it. Has been removed as aforementioned.

✓

Date July 2, 1941 Signed Frank P. Bracken

Arizona Department o[illegible]eral Resources, Capitol Bui[illegible], Phoenix, Arizona

QUESTIONNAIRE

Relating to survey of potential copper production from Arizona small and marginal mines for national defense purposes;

Name of mining property.....Abe Lincoln.....

Location.....14 miles northeast Wickenburg.....

Ownership.....Frank P. Bracken.....

Name of Manager.....Frank P. Bracken.....

Post Office address.....Box 94, Wickenburg.....

Copper production (pounds) during each of the past five years:

1936..Not operating..... 1937..... 1938.....

1939..... 1940.....

1941 rate of copper production based upon first four months.....

How much copper could this property produce annually

on a 14 cent price? ....1,825 tons.....

on a 16 cent price? ....1,825 tons.....

on an 18 cent price?.....

on a 20 cent price?.....

What price copper is necessary for this property? ..~~[illegible]~~ 14¢..... cents per pound?

What plant facilities would be required and how much is the estimated cost in the event a 14 cent price could be assured? ...$5,000.....

.....

a 16 cent price could be assured? .....

.....

18 cent price? .....

.....

20 cent price? .....

.....

For what length of time would assurance of price and sale of full production be necessary?.....12 months.....

C O P Y

(Over)

How long would it take, after financing has been provided for, before production on the above basis could be reached? ....90 days.....

Does your organization have the facilities for raising the necessary capital to increase production to the amount stated? .....No.....

If not, do you believe that your company would be amenable and agreeable to government financing? ...Yes.....

Do you believe that you could finance the capital investment yourself on some such basis as a guarantee of sale of output at a fixed price and for a definite period, with damages to cover unamortized portion of capital investment in the event the government failed to take the output for the agreed upon time - or some similar arrangement? ..No.....

Please let us have your comments on the probability or possibility of your organization participating in such a program for national defense purposes .....

...I am willing to cooperate in any way to government propositions.....

...I am sole owner - no partners.....

.....

.....

What would be your ideas on financing and carrying out such a plan as is indicated by these questions?...A government loan to finance machinery - to put property.....

.....on shipping.....

.....

.....

.....

Kindly list names and addresses of other potential copper producers in Arizona whose operations should be included within this survey.....

This mine is developed to 600 feet. Lots of drifting and crosscut work on ore bodies A large tonnage of high grade ore blocked out. Capital is necessary for cleaning up mine and a small amount of machinery.....

.....

.....

Date .....June 30, 1941..... Signed...Frank P. Bracken.....

BOARD OF GOVERNORS:
CHARLES F. WILLIS, PHOENIX
CHAIRMAN
DR. N. H. MORRISON, PHOENIX
VICE-CHAIRMAN
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J. HUBERT SMITH, KINGMAN
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DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
CAPITOL BUILDING
PHOENIX, ARIZONA

J. S. COUPAL, PHOENIX
DIRECTOR
W. J. GRAHAM, PHOENIX
ASSISTANT TO THE DIRECTOR
AND SECRETARY TO THE
BOARD OF GOVERNORS
FIELD OFFICES AT
GLOBE - KINGMAN
PRESCOTT - TUCSON

May 29, 1941

REPLY TO

Mr. John Carroll
Wickenburg, Arizona

Dear Mr. Carroll:

Many thanks for the information regarding the Copper Group. We are sorry that you did not give us the information regarding ore occurence or ore reserves. Having a map of the workings does not suffice, as there is no method for us to figure the tonnage of ore reserve and the average values, and we feel that the government authorities will want that information. If you can give that data to us, even approximately, we would be pleased to have it.

We are anxious to send in a report sufficiently complete so that there will be no comeback for further details and, therefore, no delays in putting over our proposal. If, however, we fail to give complete information on the first report, we are bound to encounter delay.

Trusting that we will hear from you on these two points, and with kindest personal regards, I am

Yours very truly,

Charles F. Willis

Chairman, Board of Governors
Arizona Department of Mineral Resources

CFW:LP

Over

Ore occurrences are in the replacements between the Andesite Hanging walls and Schists, being Chalcopyrite, Bornite, Pyrite, some Arsenic and Sulphur

#

Average of Content as shown

Au	Ag	Cu
(.03 to .08 oz av. = .05	(3 to 7 oz av. = 5 oz	(3% to 7% av. = 5%

#

Ore blocked by tunnels and stopes approx. 50,000 tons
Probable Ore 1,500,000 tons

#

Vein structure two parallel veins over two claim lengths and approximately 600 feet apart N.E. by S.W. strike and approximate 70° pitch to West

Arizona Department of Mineral Resources, Capitol Building, Phoenix, Arizona

QUESTIONNAIRE

Relating to survey of potential copper production from Arizona small and marginal mines for national defense purposes;

Name of mining property ✓ Abe Lincoln

Location 14 miles N.E. Wickenburg

Ownership ✓ Frank P. Bracken

Name of Manager "

Post Office address Box 94 Wickenburg

Copper production (pounds) during each of the past five years:

1936 Not operating 1937 1938

1939 1940

1941 rate of copper production based upon first four months

How much copper could this property produce annually

on a 14 cent price? ~~3650 tons of~~ 1825 ton

on a 16 cent price? 1825 ton

on an 18 cent price?

on a 20 cent price?

What price copper is necessary for this property? 14¢ cents per pound?

What plant facilities would be required and how much is the estimated cost in the event a 14 cent price could be assured? $5,000

a 16 cent price could be assured?

18 cent price?

20 cent price?

For what length of time would assurance of price and sale of full production be necessary? 12 months

(Over)

How long would it take, after financing has been provided for, before production on the above basis could be reached? ....90 days.....

Does your organization have the facilities for raising the necessary capital to increase production to the amount stated? ....No.....

If not, do you believe that your ~~company~~ would be amenable and agreeable to government financing? ....Yes.....

Do you believe that you could finance the capital investment yourself on some such basis as a guarantee of sale of output at a fixed price and for a definite period, with damages to cover unamortized portion of capital investment in the event the government failed to take the output for the agreed upon time - or some similar arrangement? ..No.....

Please let us have your comments on the probability or possibility of your organization participating in such a program for national defense purposes .....

.....I am willing to cooperate in any way to.....
.....government propositions.....
.....I am sole owner, no partners.....
.....

What would be your ideas on financing and carrying out such a plan as is indicated by these questions?....A government loan to finance.....
...machinery to put property on shipping.....
.....
.....
.....
.....

Kindly list names and addresses of other potential copper producers in Arizona whose operations should be included within this survey.....

This mine is developed to 600 feet. Lots of drifting and cross cutwork. Ample bodies. A large tonage of high grade ore blocked out. Capital is necessary for cleaning up mine and a small amount of machinery.....

Date June 30, 1941 Signed Frank P. Bracken

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Capitol Building, Phoenix, Arizona

Name of property.

Abe Lincoln

Location and accessibility of property.

14 miles north east of Wickenburg. 3 miles South South east of the Monte Cristo Mine. 9 miles of county road and five miles of fairly good mine road. The county grader goes within one mile of the mine.

History of ownership.

The original location is unknown prior to 1920. In 1924 the Lincoln operating Co. began development work. Due to the low price of copper operations were suspended in 1929. A. G. Walker & C. I. Mills located it and sold the machinery. In 1937 Walker abandoned it and I located it.

Production history.

From reports in my possession I know that a considerable amount of ore was shipped. When I became foreman in 23 & 24. outside of development work we shipped 6 cars of concentrates and one of broke ore. The concentrates were 15% copper & $7 a ton Gold, old standard. The car of ore was 17% copper. The difference in these was due to being taken from two different veins. The later was from a cross cut vein.

General geology (brief)

The surface is rough and broken. The formations are Granite and Porfory.

Ore occurrence. Solidous ore. From a true fissure veins on the group of claims there are four ore bodies or distinct veins of ore. All have been opened on the surface so they can be sampled.

Ore reserve (quantities and values).
The ore has been developed to the depth of 600 feet and as much as 1000 feet of drifts on levels but no stopping done. On one of the lower levels we have 270 ft. of drift on 15% copper 4 foot vein. on 350 level there is a 1000 ft drift the vein will average 5% copper vein average 5½ ft. in width. on this level the 17% copper occurs in a cross cutted vein.

Accessory metals of value.
An average of $3. a ton in gold.

Development work done.
A 600 foot shaft. Drifts: on the 175 about 800 feet, on 250 a station about 200 ft of drift & 400 ft. of cross cutting. on 350 there is 1085 ft. of drift. A station cut on the 450. on 600 level 1400 feet of cross cut and drift work. a number of tunnel and cuts on the surface.

Plants (with capacity) already on property.
No plant on it. Has been removed as aforementioned

Date July 2, 1941 Signed Frank P. Bracken

Arizona Department of [illegible]eral Resources, Capitol Build[illegible] Phoenix, Arizona

QUESTIONNAIRE

Relating to survey of potential copper production from Arizona small and marginal mines for national defense purposes;

Name of mining property "Copper Group" Formerly "The Lincoln"

Location Castle Creek Mining Dist - On Buckhorn Wash

Ownership Frank P. Bracken and John Carroll

Name of Manager .....

Post Office address 316 E Moreland - Phoenix - Arizona

Copper production (pounds) during each of the past five years:

1936 — 1937 30 Ton 5% Ore 1938 —

1939 — 1940 —

1941 rate of copper production based upon first four months —

How much copper could this property produce annually

Figure 50-ton Cars

600,000 lbs/yr on a 14 cent price? 10 Cars of 5% Ore per Mo. 500T

1,500,000 lbs/yr on a 16 cent price? 25 Cars of 5% Ore per Mo. 1250

2,100,000 on an 18 cent price? 35 " " " " " " 1750

3,000,000 on a 20 cent price? 50 " " " " " " 2500

What price copper is necessary for this property? 14-16 cents per pound?

What plant facilities would be required and how much is the estimated cost in the event a 14 cent price could be assured? Necessary compressor equipment, machines, small tools, etc. $2500.00

a 16 cent price could be assured? OR plus

18 cent price? Necessary milling equipment to crush and make a 10-1 Ratio

20 cent price? Concentrator $27,500.00

For what length of time would assurance of price and sale of full production be necessary? .....

(over)

How long would it tak[illegible]fter financing has been prov[illegible] for, before production on the above basis could be reached? 30 DAYS

Does your organization have the facilities for raising the necessary capital to increase production to the amount stated? No

If not, do you believe that your company would be amenable and agreeable to government financing? YES

Do you believe that you could finance the capital investment yourself on some such basis as a guarantee of sale of output at a fixed price and for a definite period, with damages to cover unamortized portion of capital investment in the event the government failed to take the output for the agreed upon time - or some similar arrangement? YES

Please let us have your comments on the probability or possibility of your organization participating in such a program for national defense purposes.

AGREEABLE to ANY REASONABLE OPPORTUNITY OR PLAN WHEREBY WE COULD GET INTO PRODUCTION

What would be your ideas on financing and carrying out such a plan as is indicated by these questions?

Kindly list names and addresses of other potential copper producers in Arizona whose operations should be included within this survey

"CAMP B" OWNER BRAXTON COMMERCIAL CO. VICKENBURG, ARIZ.

Date 5/26/41 Phoenix Ariz

Signed John Carnell 316 E Moreland

ABE LINCOLN, E. I. Mills and F. P. Bracken doing business as the Abe Lincoln Group, Route 2, Box 76, Phoenix, Arizona.

This property was granted a $5000.00 Reconstruction Finance Corporation Preliminary Development Loan in September, 1942 to reopen the 350 foot level through an adit. Assay data upon which the loan was based indicates a vein 7.44 feet wide having an average copper content of 5.23% for a length of 210 feet. Vertical continuity of this ore is evidenced by its exposure 175 feet above and 310 feet below the above mentioned 210 foot drift.

The adit required spiling which caused some delay. The shaft station has been reached and work preparatory to pumping is being performed. The loan may not be sufficient to complete the unwatering, if not further funds should be forthcoming without delay.

from COPPER REPORT NO. 2, DECEMBER 23, 1942, by Earl F. Hastings, for COPPER BRANCH, WAR PRODUCTION BOARD.

NAME OF MINE: ABE LINCOLN

COUNTY: YAVAPAI
DISTRICT: CASTLE CREEK
METALS: CU

OPERATOR AND ADDRESS: DATE:		MINE STATUS DATE:	
5/1/44	E. I. Mills, Rt. 2,Box 76 Phoenix, Arizona	5/1/44	Not shipping
		4/1/44	Idle
May--44	Frank Bracken (Mills quit definitely)		
6/20/44	Sold to A. J. Davenport Dallas, Texas	6/20/44	New operating company

OVER

The Copper Creek group is located about 15 miles northeasterly from Wickenburg, Arizona, on ~~the~~ Buckhorn Wash and is reached by a county maintained road to within approximately one mile of property. ~~Balance of road goes down a narrow canyon, requiring occasional work to keep it in shape for travel.~~

~~This property~~ It is owned by Frank P. Bracken and John Carroll, 316 East Moreland Street, Phoenix, Arizona.

Bracken and Carroll located the property several years ago, after the former owners had let it lapse. ~~Under former ownership,~~ The former owners did considerable development work ~~had been done,~~ during the last World War, and for a year or so afterward until ~~when~~ price of copper dropped so low that ~~work~~ operations had to be abandoned.

~~As to production history,~~ During the first World War, ~~mentioned, former owners erected and operated~~ a concentration mill with a capacity of 50 tons daily was operated and a ~~and during this period~~ considerable tonnage of ore and concentrates ~~were~~ was marketed. Later on the milling plant and houses were dismantled and sold and there is no equipment on the property at present.

Veins are in the nature of fissure replacements in andesite and schist, with ~~vein~~ widths ~~being~~ up to 10 feet.

~~Character of~~ The ore is mainly composed of sulphides ~~sulphide material,~~ such as bornite and chalcopyrite ~~, pyrite, etc. Aside from copper, the ore of this mine also contains gold and silver values.~~

~~There is no equipment now on property.~~

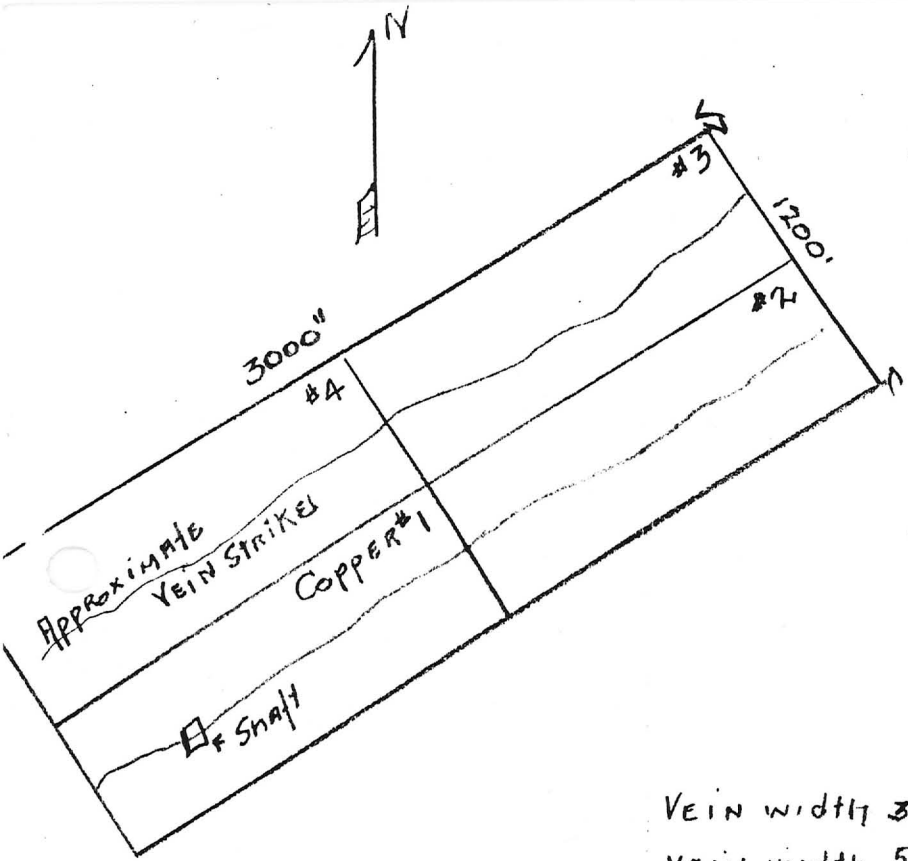
The owners claim that 50,000 tons of 5 per cent copper ore, carrying additional values of 0.05 ounce per ton in gold and 5 ounces in silver, have been ~~ore~~ blocked out by tunnels and ~~stops~~ raises ~~approximates 50,000 tons with an assay value, more or less as follows: Gold, .05 ounces, silver 5 ounces and copper 5 per cent.~~

Probable ore reserves 150,000 T

The capital investment necessary to cover costs of an ore treatment plant, including mining equipment and tools, would approximate $27,500. Such a plant, as contemplated would take about three months to erect, and would produce 480,000 pounds of copper annually at a price of 14 cents a pound ~~the following amounts of copper annually:~~

With copper at:	14 cents	16 cents	18 cents	20 cents
	480,000 lbs.	1,220,000lbs.	960,000 lbs.	1,200,000 lbs.

Total Reserves blocked out = 5,000,000 #



Numerous open cuts and tunnels are on these 4 claims

These claims cover workings formerly known as

"ABE LINCOLN"

N.W.

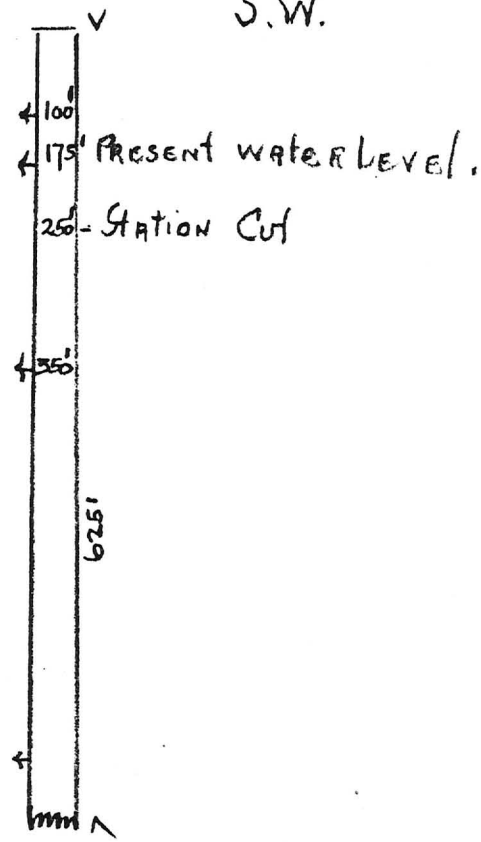
Vein width 3' to 7'
Vein width 5' to 10'

Drift run 150' to cut ore, then drifted 290' on ore
Vein width 5' to 6'

Drifted and cut parallel vein
Widths 6' to 7'

Not to Scale.

S.W.



Assays show values
Au. .03 to 0.10
Ag. 3.0 to 7.0 oz
Cu. 3% to 9%

John Carroll
#316 E Moreland
Phoenix, Arizona.