



## **CONTACT INFORMATION**

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PRINTED: 08/28/2001

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HILLSIDE

ALTERNATE NAMES:

CAMP MS 919  
SEVEN STARS MS 916  
HAPPY JACK MS 920

YAVAPAI COUNTY MILS NUMBER: 140

LOCATION: TOWNSHIP 15 N RANGE 9 W SECTION 21 QUARTER NW  
LATITUDE: N 34DEG 37MIN 57SEC LONGITUDE: W 113DEG 12MIN 36SEC  
TOPO MAP NAME: BAGDAD - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

GOLD  
SILVER OXIDE  
LEAD OXIDE  
URANIUM  
FLUORINE  
BERYLLIUM

BIBLIOGRAPHY:

ADMMR HILLSIDE MINE FILE  
BLM MINING DISTRICT SHEET  
ANDERSON, C.A. ET.AL. GEOL AND ORE DEPTS OF  
BAGDAD AREA USGS PP 278 1955 P 43  
METZGER, O.H. GOLD MINING AND MILLING IN THE  
WICKENBURG AREA USBM IC 6991 1938 P 66  
ADMMR FILES USAEC PRELIM RECON REPT YAV. CO.  
P. 1  
AZBM JAMES B. TENNEY HISTORY OF MINING IN AZ  
VOL 1 1927-29 CHP 11, P 183  
MEEVES, H.C. NONPEGMATITIC BERYLLIUM OCCURAN.  
USBM RI 6828 1966 P 59  
ADMMR HILLSIDE MINE COLVO FILE

*Pmo 679 - ARE FILED*

HILLSIDE MINE

YAVAPAI COUNTY

IC 6991

ABM Bull. 137 p. 24

USGS P.P. 278 p. 45

USGS P.P. 318 p. 106

RMO 679 - AEC files

A. L. Flagg vanadium reports - Book V-V

Production to 1951 \$3,541,440 -  
major metal gold - J.W. Still figures  
(corres. file)

ABM Bull. 156 p. 122, 125

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

YAVAPAI COUNTY

~~XXXXXXXXXX~~

HILLSIDE MINE

MILS # 140

3-AKA's

Hillside (file)

MM 164 Schroeckingerite  
167 Swartzite, Bayleyite,  
Andersonite

1007 Uranium Ore  
1033 Autunite Eye

May 1, 1957

M. Gemmill reported:

✓ Boulder Mining Co.  
Mine and Mill

Not in existence - property owned by Hillside ✓

Mining and Milling Co.  
Hillside, Arizona

\*

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine *Hillside*  
District *Eureka*  
Subject: *Hillside Mines, Inc.*

Date *Jan 1, 1940*  
Engineer *Carl G. Barth Jr*



\*

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine *Hillside*  
District *Eureka*  
Subject: *Hillside Mines, Inc.*

Date *Jan 1, 1940*  
Engineer *Carl G. Barth Jr*



\*

HILLSIDE MINE

YAVAPAI COUNTY

Salvage operations are underway at two long-idle mines in the Bagdad district of Arizona following the acquisition of the mills and buildings by George Mangun of Wickenburg, Arizona. The properties are the Hillside mine and the near-by Tungstona. Mining World August 1962 p. 34

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Visited Hillside - made inquiry re activity in the area - none. FTJ WR 10-23-70

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KAP WR 9/3/82: Rich Standish of Rocky Mountain Energy Co., Subsidiary of Union Pacific Railroad reports that they have acquired the Hillside Mine, Eureka District, Yavapai County. He was in to get what information we had on the property.

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KAP WR 4/6/84: Tom Sharps, Rocky Mountain Energy, Box 2000, Broomfield, Colorado 80020, reported they currently have the Hillside Mine, Yavapai County and are making an evaluation to determine if they want to become involved in a detailed exploration project. Copies for our files were provided as was a letter complimenting our agency.

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\*

R1

Present Operations: Hillside Mining & Milling Co.

The operations of this company are now almost entirely given over to mining and milling tungsten ore from the Tongstona mine. During the past year an extensive program of development has been carried on at the mine. Mr. Dickie stated that they have definitely proven a very large body of low grade tungsten ore which also carries a small percentage beryl. Present production at the mine averages 125 tons per day. The mill capacity is 10-12 tons per hour and is being operated enough hours each day to handle the mine production. Mine production is being stepped up as rapidly as possible. Mine work is now hampered by lack of power, which consists of Diesel driven equipment. A power line is being extended from Bagdad to the mine. When this is in everything will be electrified. Concentration of the ore is done with tables followed by flotation and magnetic separation to refine and separate the tungsten minerals. Wolframite is the principal product with a smaller percentage of schellite. Both products are brought up to a prime grade and bring the top price. It was stated that the recovery percentage is very satisfactory. Tests are being made to determine a method of recovering the beryl content in the ore which is now being lost. Mr. Dickie stated that the future plans are for a plant of several thousand tons capacity when proven feasible. A shipment of 6½ tons of high grade tungsten concentrate was recently made from the mill. Mark Gemmill 12-6-52

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\*

Date Printed: 08/26/98

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION SUMMARY

Information from: **Gordon Sutton**

Company: Quest Attorney Investigations  
Address: 5924 Los Angeles Blvd., Suite J  
City, State ZIP: Simi Valley, California 93063  
Phone: 805-579-3390

**MINE: Hillside**

ADMMR Mine File: Hillside  
County: Yavapai  
AzMILS Number: 140

SUMMARY

Gordon Sutton called requesting information on a Greenway Gold mine purportedly operating near Bagdad. He provided Yavapai County tax assessor parcel numbers for the patented claims that make up the Hillside Mine [AZMILS Yavapai 140].

It was explained that the Hillside Mine had not been an operating mine for many, many years. He was concerned and investigating because the mine had been listed as collateral on a financial statement he was hired to investigate. I explained that the value listed seemed reasonable for patented land in the area without any excess value added for the mineral rights or a producing mine.

Mr. Sutton provided a copy of a Statutory Warranty Deed that transferred ownership of the following patented properties from Russell, Inc. to Greenway Environmental Services on November 15, 1991:

Contact No. 1, MS 917  
Contact No. 2, MS 918  
Seven Stars, MS 916  
Hillside, MS 915  
Camp, MS 919  
1st S. Ext. Hillside, MS 3741  
2nd S. Ext. Hillside, MS 3741  
Resurgam, MS 3742  
Muscal, MS 3741

The copy of the deed is attached for inclusion into the mine file.

W.L. Campbell signed the deed as President of Russell, Inc. and the address of Greenway Environmental Services is listed as 7617 E. Princess Blvd., #3078, Scottsdale, Arizona 85265. The company is currently listed in the "Phoenix Metro" phone book at 266 W. 3rd

Date Printed: 08/26/98

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION SUMMARY

Place, Mesa, Arizona 85201, phone 602-844-8494.

Ken A. Phillips, Chief Engineer      Date: August 19, 1998



INSTRUMENT # 9209296  
 OFFICIAL RECORDS OF  
 YAVAPAI COUNTY  
 PATSY C. JENNEY  
 REQUEST OF  
 GREENWAY ENVIRONMENTAL SERVICES  
 DATE: 03/09/92 TIME: 11:35  
 FEE: 7.00 SC 1.00 FT.  
 BOOK 2437 PAGE 921 PAGES: 001

Filed for Record at Request of

Name: GREENWAY ENVIRONMENTAL SERVICES, Inc.

Address: 7617 East Princess Blvd. #3078

City and State: Scottsdale, Arizona 85255

### Statutory Warranty Deed

THE GRANTOR RUSSELL, INC.

for and in consideration of One Hundred Dollars and other valuable considerations  
 in hand paid, conveyed and warrants to Greenway Environmental Services, Inc. (a Nevada corp.)  
 the following described real estate, situated in the County of Yavapai, State of  
 Washington, Arizona:

Patented mining claims all situate in the Eureka Mining District

- Contact No. 1, U.S. Mineral Survey No. 917
- Contact No. 2, U.S. Mineral Survey No. 918
- Seven Stars U.S. Mineral Survey No. 915
- Hillside U.S. Mineral Survey No. 915
- Camp U.S. Mineral Survey No. 919
- 1st S. Ext. Hillside, U.S. Mineral Survey No. 3741
- 2nd S. Ext. Hillside, U.S. Mineral Survey No. 3741
- Resurgam U.S. Mineral Survey No. 3742
- Muscat U.S. Mineral Survey No. 3741

Reserving unto the Grantor a net smelter return royalty of 2% on  
 all minerals taken or extracted from the above described property.

Tax Parcel Number: 300-26-005A-0 & 300-26-006-4

Dated this 15<sup>th</sup> day of November, 1991

RUSSELL, INC.

President

SEAL

STATE OF WASHINGTON,

County of Spokane

BOOK 2457 PAGE 921

On this day personally appeared before me W. L. Campbell, president of Russell, Inc.  
 to me known to be the individual described in and who executed the within and foregoing instrument, and  
 acknowledged that they are the same as their free and voluntary act and deed, for the  
 uses and purposes therein mentioned.

GIVEN under my hand and official seal this

15<sup>th</sup> day of November, 1991

1991



**QUEST**  
ATTORNEY  
INVESTIGATIONS

**INTERNATIONAL HEADQUARTERS**

5924 LOS ANGELES AVE., SUITE J, SIMI VALLEY, CA 93063  
TOLL FREE CALIFORNIA: 1-800-542-2200 NATIONAL: 1-800-321-2935

OFFICES ALSO LOCATED IN:  
SAN FRANCISCO, PORTLAND, SEATTLE, DENVER, DALLAS, HOUSTON

TELECOPY MEMORANDUM

DATE:

8/19/98

TIME:

9:45

FROM:

Gordon Sutton

QUEST ATTORNEY INVESTIGATIONS  
5924 Los Angeles Ave., Suite J  
Simi Valley, CA 93063

TELEPHONE 805 579-3390  
FAX 805 579-3390

Toll free  
1-800-321-2935

TO:

Ken Phillips  
Arizona State Dept. of mines

FAX PHONE NUMBER:

(602) 255-3777

NO. OF PAGES:  
(Including Memo)

②

RE:

Greenway Environmental Services

Can you tell me anything about this  
gold mine? Value?

Thanks, Gordon



Hillside Mine (f) Yavapai, DENVER FOR  
Hillside Mine (f) COMPANY ON SECOND PAGE  
IC

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION

IN REPLYING PLEASE QUOTE

DENVER REGIONAL OFFICE  
410 SEVENTEENTH STREET  
SUITE 700  
DENVER, COLORADO 80202

August 8, 1988

Dick Beard  
Arizona Department of Mines  
and Mineral Resources  
Mineral Building  
Fairgrounds  
Phoenix, Arizona 85007

Re: Hillside Claims and Mine, Yavapai County

Dear Mr. Beard:

Thank you for the information which you provided me concern-  
ing the past operations at the Hillside Mine. As you requested,  
I am enclosing copies of recent materials which we have received,  
so that you may add them to your agency's file on the property.

Very truly yours,

*Carleen H. Achuff*  
Carleen H. Achuff  
Senior Geologist

RECEIVED  
AUG 10 1988

DEPARTMENT OF MINERAL RESOURCES

News Items

Date July 21, 39

Mine Hillside Mines Inc

Location 37 miles north of

Owner Hillside

Address "

Operating Co. 73 men on

Address payroll -

Pres. 15 days repairing

Genl. Mgr. Diesel Engine

Mine Supt.

Mill Supt. Present operating

Principal Metals Mill one shift

Men Employed

Production Rate Confidential

Mill, Type & Capacity

Post dating all  
Power, Amt. & Type Payroll

Checks for 60 days  
past.

Signed Barth

(Over) 7

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 10/15/39

Mine Hillside Mine

Location

Owner

Address

Operating Co. Hillside Mines Inc

Address

Closed down  
Pres. for re-organization

Genl. Mgr.

Mine Supt. Crew of 4

Mill Supt. men retained

Principal Metals

Men Employed H.L. Williams

Production Rate in Seattle

Mill, Type & Capacity

Joseph Walton  
Power, Amt. & Type in Philadelphia

Signed Barth

(Over) 8

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 10/21/39

Mine Hillside Mine

Location

Owner

Address

Operating

Address

Pres.

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Prescott Courier

Men Employed

Production Rate

Mill, Type & Capacity

Power, Amt. & Type

Signed Barth

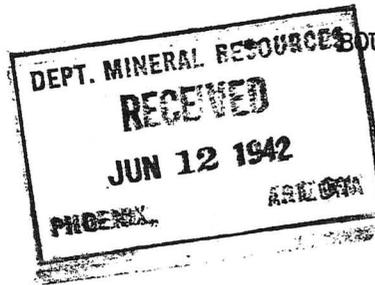
(Over) 9

SURVEY OF OPERATING MINES

JUNE 10th, 1942. 90

By A. C. Nebeker

Boulder Mining Co. Inc  
Hillside Yavapai Co  
Arizona.



BOULDER MINING CO.

James W. England Jr. President  
Henry Williams Jr. Mgr.  
Country Club,  
Prescott, Ariz.

Located 37 Miles N.W. of Hillside, Arizona, in the Eureka Mining District, Yavapai county.

The country is rugged so the roads are crooked but very good mountain graded roads.

This property has been producing gold, silver, lead and zinc ores for many years both in the form of crude ore and mill concentrates. It is equipped with two Diesel Engines giving a combined horsepower of 900, these furnish the electricity for both mine and mill.

The production last year 1941 would run per month from 85,000 to 90,000 lbs lead and 100,000 lbs of zinc. Tons of zinc concentrates 1224.95; tons lead conc. 6009.98 lbs of zinc 1,305,062 Lbs of Pb. I, 643,127 Copper in zinc conc. 9,439 lbs copper in Lead conc. 67,168 lbs. Dollar value of Gold and silver: Gold \$176,147.25 silver \$ 93,859.18

The company now is keeping the mine dewatered, and doing some drifting on the 1000 ft level, and have got the shaft station finished. They are mostly marking time, until they get the R.F.C. Mining Loan, which I understand is for \$250,000.00

They have not been trying to produce any tonnage this year of 1942.

When they get the new money they plan to extend the drifting on the 1000 ft level and sink the shaft to the 1100 ft level, and do the drifting to block out the ore from that level.

The mill is the flotation type and can handle 120 tons per day.

Water for mining and milling comes from the mine and creek and plenty of it.

The concentrates are trucked to Hillside, then to the Smelter, The Zinc goes to Amarillo Texas, Lead to El Paso., by R.R.

At this time 16 men are employed but the average for the past year was 125 men and the Company had a Trained Nurse in the camp.

\*

RECEIVED

AUG 10 1988

HILLSIDE GOLD AND MINERALS INC.

The Board of Directors of Hillside Gold and Minerals Inc. has announced, after months of negotiations, the successful acquisition of Hillside Mining Claims. The mine is located in Yavapai County in Arizona and consists of 80 acres, with both surface and subsurface rights.

This mine was originally brought into production in 1887. The area, known as the Eureka mining district, is considered to be one of the most prolific gold and silver areas in North America. At current prices over \$35,000,000 have been produced and sold in base metals from the Hillside Mine. The property itself has been developed well down to the 1,000ft level with over 11,000ft of underground shafts and tunnels. Ore bearing veins run for 2,400ft and according to reports published by the Arizona Department of Mines, mill head assays averaged per ton - gold 0,18%, silver 4,1 ozs., lead 2%, zinc 3,7%, copper 0,3%. The report goes on to state that the bottom of the vein has not yet been reached and additional ore shoots are most likely to be found.

Most importantly, the Hillside property is almost adjacent to the fabulous Bagdad Copper Mine which is the flagship operation of the Cyprus Mining Corporation. This whole area is considered to be one of the most productive for base metals in North America.

The Company will start operations by mining the 200,000 to tailing pile that will average \$25 per ton of gold - plus a rather surprising benefit - engineers estimate an additional \$20 per ton in Uranium U3O8. This additional product could be found extensively in this mine and become an unexpected bonanza.

The Hillside also plans an aggressive acquisition program and is studying several properties in California and Nevada, but they state that they will only consider proven properties similar in stature to that of the Hillside Mine.

SPECIAL RECOMMENDATION  
Buy at Market HILLSIDE GOLD & MINERALS INC.  
traded OTC in New York

We recommend the immediate purchase of the shares of HILLSIDE GOLD & MINERALS INC.

SYNOPSIS

After a great deal of examination we have come to the conclusion that with the uncertainty of world events it is necessary to be more than over cautious in the purchasing of equities. Not just because of the fact that the availability of shares looks good, but global events must also be taken into consideration, due to the fact that on occasions these can take even the best company and destroy its earning potential. Today we have to look at leverage and investment diversification. We have to look at hedging against inflation and we must look at the various currencies of the world and pick a company we feel meets our criteria where management, resources and potential are concerned and, most important of all, meets our criteria in its forms of diversification to not only protect us against inflation, but to protect us against recession. Such a company, in our opinion, is HILLSIDE.

HILLSIDE is in the mining business, professionally and with a profound background in mining. They have acquired, after a great deal of in-depth study and lengthy negotiations, the HILLSIDE MINE in Arizona. This is a proven mining operation that meets our standards of diversification, namely gold and silver production - that hedges both inflation and depression (we don't have to write about the value of gold holdings, as currently it is anticipated that within the next two years we will again see gold at around \$ 1000,- an oz., and silver usually goes right alongside.) Besides these benefits you have the industrial uses of gold and silver, in what we call the "Star Wars" activities, where both metals are employed extensively: In a booming economy your zinc, lead and copper are always in demand and, as many periodicals have stated, the "coal" of the twentieth century will be uranium U308 - we have here a mining property which even has this on board, in very economically feasible quantities.

These are the premises for us strongly recommending the purchase of HILLSIDE shares.

HISTORY OF THE MINE

(The source of this information was obtained from the U.S. Dept. of the Interior's Geological Survey Paper No. 278)

The property originally started producing ore in 1887, and over the next fifty years the mine shipped many millions of dollars of ore at a time when gold, on miners' bars, was receiving between \$ 15 and \$ 17 per ozs. Due to economic feasibility of production falling, the mine was closed on several occasions. However, over the last eighty years over 11,000 ft. of workings has been done on the property as well as extensive drilling and exploration. In 1944 the mine was dewatered, the shafts rehabilitated and lower workings of the mine were opened again in 1946 with production going up to 1800 tons a month. In 1951 production was discontinued due to the reduction of gold and silver prices. Pursuant to this report it is estimated that total production at the end of '51 consisted of: 50% gold, 25% silver - the balance being made up with lead, zinc and a small amount of copper. However, it should be noted that, the same production today would be worth over THIRTY FIVE MILLION DOLLARS. In 1951 it was worth little over \$ 3,000,000. Now, since the US Government's decision to allow the price of gold to fluctuate, this becomes an extremely commercial situation.

The main strike vein runs N'10°W' at the south end of the mine and changes to N'25°E' at the north end. The dip is not uniform but averages between 75/80° in a westerly direction, faulting before and after mineralisation has been important. The main vein in several branches occupies a zone of faults antedating the veins and sufficient movement along the faults occurred after mineralisation to form a 3' zone of gauge and fault breaks. Branching veins appear on both sides of the main vein. Of great interest and major importance is the fact that the thickness of the vein disappears at some points only to reappear at double the thickness. With modern mining methods automated production is extremely viable and can be developed rapidly.

Exploration work has not reached the bottom of the vein and it is estimated that several additional ore shoots will be found.

UPDATE

(Discussions held with Mr George Hennessy, geologist representing US BORAX, Mr E.M. Barge, geologist representing RAMPART EXPLORATIONS - a subsidiary of the gigantic CYPRUS MINING operation - as well as the President of HILLSIDE GOLD & MINERALS INC. Mr E.S. Johnson, an experienced mining man)

Basically, the discussions have evolved around a programme for the development of HILLSIDE. The information supplied by these gentlemen makes us even more enthusiastic than ever as to the anticipation of an extremely profitable position for the Company.

Both Mr Hennessy and Mr Barge were involved in exploration work on the mine in previous years and have indicated great confidence in the future potential of the property.

The HILLSIDE property is no more than 500yds away from Cyprus Mining's famous BAGDAD MINE - this is an open pit operation producing some 10.000 tons of ore a day. The first phase of production with HILLSIDE will be the tailing pile which is sitting adjacent to the headframe and has an estimated 240.000 tons of gold and uranium-bearing ore. The engineers calculate that there is approximately \$ 65 per ton in gold and silver - excluding the value of the uranium. With a custom mill some twenty miles away which can handle 300 tons of ore per day at a cost of \$ 25 per ton (including transportation and processing), we thus have on surface, ready to proceed with immediately, a potential nett income of \$ 12.000 a day - operating twenty days a month that is \$ 240.000 per month - or a yearly income over \$ 3.000.000. Then we have to add the value of approximately 132.000lbs of U3O8, currently selling at \$ 17 per lbconcentrate, bringing an additional \$ 2,244.000. This is only the income from the surface.

To continue the report from the engineers and geologists and the principals of the Company. Remember that the engineer from Rampart (the Cyprus subsidiary) and also engineers from Westinghouse, have done substantial exploration work - when Rampart drilled down to the 750' level they had not reached the end of the ore body, in fact their anticipation was that it would expand and increase at lower depth and they recommend continuous development from the 750' level down to the 1000' perhaps even the 1200' and then drift work in different directions. They were extremely committed to the fact that there is a commercial opportunity to expand this mine, even more than there has been to date and that the returns could be in excess of what has previously been taken out of the mine by using modern, up-to-date methods. That means we are talking about another \$ 30 to \$ 40 million becoming available on a gross basis with this particular property.

I fully realize that many more details might be given.  
Many more data are available should a request be made for such.

Respectfully submitted,

J. F. Frost, E.M.

is mainly from the deepest level.

### Geology:

The regional geology is indicated on the attached blue print drawn by Mr. Homer R. Wood (already mentioned). The Hillside vein is in a fault fissure in pre-cambrian schist, some few hundred feet from the contact of the schist with the granite.

The vein strikes roughly north and south with somewhat of a curvature so that the south end strikes a little east of south while the north end strikes north east. The dip is about  $72^{\circ}$  to the west. The schist strikes about the same as the vein but dips about  $70^{\circ}$  to the east. Hence the vein is not in the plane of schistosity but cuts across it. The large general map will show the dip and strike of the vein at a glance.

The general relationship between the vein and the immediately surrounding rocks is: There are two dikes roughly parallel to each other and to the vein in both dip and strike. The more westerly (or hanging wall side) dike is rhyolite; the other is granite (or granite pegmatite in places). The vein occurs most commonly in the schist between these dikes. In other places the vein is adjacent to the rhyolite dike on one side or the other or even enough vein matter may have entered shattered portions of the dike to cause the dike itself to become ore. Also in places the vein enters the granite dike but has never been found on the footwall side of the granite dike. Two branches of the vein have been worked in places and it is very probable that additional exploration will expose other branches (as in fact has happened in one instance since the map was brought up to date the first of this month).

The vein minerals in approximate order of their abundance are quartz (and gouge), pyrite (carrying finely divided gold), sphalerite, galena, arsenopyrite (auriferous), bornite (argentiferous?), tennantite, chalcopyrite (rare), and probably argentite or some other silver mineral as yet unrecognized. Barite is found as vein gangue in a few scattered places. Even more rare is a purple fluorite. Rhodochrosite was introduced in small amounts in a few places, probably at a later stage.

The large general map shows the relationships of some parallel veins or branches.

\* There are quite a number of post mineral faults. Most of these post mineral faults displace the vein from a few feet up to a maximum of some 20 or 25 feet. Also there is a fault at the south end of the workings which has nearly the dip and strike of the vein and has been followed in some instances instead of drifting along the vein.

Three ages (or perhaps the word stages should be used) of mineral deposition are easily recognized and careful work might determine others.

## Ore Reserves:

It has not been the policy of this Company to make the usual assay maps and standard ore reserve calculations. One reason has been that operations were started with a minimum of working capital and development has never gone very far ahead of extraction. Operating profits have been put into mill and power plant improvements, roads, and other such major items as shaft sinking. Also, proven ore reserves figure in the amount of taxes to be paid. Hence, proven ore reserves at present are not very large. However, the vein has been stoped quite regularly over a length of some 2300 feet. Also, the bottom level shows increasing width with the value holding up very well. I have seen absolutely no indication that we are nearing the bottom of the ore in this mine. The above mentioned condition of proven ore reserves has been true ever since operations were started by this Company, yet production has been continuous and as shown on the first page.

A very rough general estimate of probable ore is as follows: Each foot of back on the 8th level in ore blocks out about 40 tons of ore. If the vein continues about the same as at present and of a length comparable with the levels above, some 92,000 tons will be blocked out, which at \$10.00 gives a probable gross value of \$920,000 for the 8th level. All indications point to the above being reasonable assumptions.

Possible ore reserves enter into the realm of opinions which may vary greatly. Present indications would point to two more levels below the 8th as being very conservative. In which case, the possible ore would be double the amount of the probable or 184,000 tons at \$10.00 would amount \$1,840,000.00 gross value of possible ore. There are good reasons to expect that the ore will go much deeper than the two additional levels calculated.

Near the surface there was marked surface enrichment and probably, in places, some secondary enrichment near the fourth level. Since primary ores have been reached somewhere between the fourth and fifth levels, values have averaged quite consistently about the same. The tendency appears to be toward an increase of width with depth.

An inspection of the large general map shows various irregularly spaced blocks which have not been stoped. Work on a number of such blocks has demonstrated that the drift was driven off the main vein and a number of previous "blank spaces" have been stoped profitably. It is highly probable that a good proportion of the unstoped ground will be found to contain good ore just a few feet to one side or the other of the present drifts.  
\* A little development work will be required to prove the point definitely.

The arithmetical average of the mill heads for December, 1938 gives the following assays:

Gold	0.217	oz. per ton
Silver	5.06	oz. per ton
Lead	2.42%	
Zinc	4.24%	

Calculating gold at \$32.81825 (the smelter price) and silver at \$0.60, the gross gold and silver value is \$10.16 per ton. This figure does not include mill tailing loss nor does it show the value of the lead and zinc. Production was largely from the bottom or 8th level.

Surface Equipment:

The surface equipment consists of a flotation mill in normal operation, further details of which are given below. A double drum hoist brings the ore to the surface. Diesel engines drive 440 volt generators and consist of the following:

1 - Fairbanks, Morse full diesel	of 420	horse power
1 - " " " " " "	80	" "
1 - Buckeye Semi-diesel	" 260	" "
1 - Victor full diesel	" 185	" "

The Victor engine is now being installed.

Compressed air for the mine is supplied by a Sullivan Angle Compound and a Chicago Pneumatic Compressor. There is a well equipped machine shop, change room, blacksmith shop, and bit grinder. There are also offices, bunk houses, staff houses, kitchen and dining room, school house, assay office, timber framing equipment, diesel oil storage, and various other necessary installations. Underground electric pumps supply the mill with mine water.

Mill:

The ore is crushed in a No. 3 $\frac{1}{2}$  Wheeling Jaw Crusher and is ground in a 64 $\frac{1}{2}$  Marcy Mill in closed circuit with a 6-foot Dorr Classifier. There are 24 Fahrenwald Flotation Machines which now make an Au-Ag-Pb-Fe concentrate and a zinc concentrate. Concentrates are dewatered in thickeners and by drum filters. Individual electric motor drives are used for both mill and other power requirements.

Mill recovery of gold and silver varies between 92% and 95%, with an average of 94% or slightly better.

Costs:

\* I have the following at hand which are presumably direct costs:

Mining	6/30/35 to 6/30/37	\$3.59	per Ton
Milling	" "	1.10	" "
Marketing	" "	1.88	" "
Total		\$6.57	

Hillside Mines, Inc.,  
Hillside, Arizona,  
January 23, 1939.

Mr. H. L. Williams,  
Prescott, Ariz.

✓  
Re: Hillside Mine

Dear Sir:

Given below is a brief description of the Hillside Mine:

Location and Claims:

The Hillside Mine is in the western portion of Yavapai County, Arizona. It is some 33 miles north west, by graded road, from the A.T. & S.F. railroad station of Hillside, its relationship to other mining properties in the Eureka District is clearly shown on the attached blue print drawn by Mr. Homer R. Wood.

The property consists of 6 patented and 14 unpatented mining claims. Almost the entire production has come from two of the patented claims.

History:

The principal claims were located in 1887 and were patented in 1890.

The production to date is in excess of two million dollars. The figures are:

Net returns from ore, concentrates and bullion from June 29, 1887 to June 6, 1914.....	\$ 315,743.42
Gross value (from smelter settlements) since operation started by Hillside Mines, Inc. 1934 to Jan 1, 1939.....	1,870,485.52

The yearly production from the property follows:

<u>Year</u>	<u>Months</u>	<u>Gross Value</u>
1934	6	\$ 202,956.34
1935	12	371,962.45
1936	12	462,415.17
1937	12	414,745.24
1938	12	<u>418,406.32</u>
Total.....		\$1,870,485.52

It will be noted that this production has come from the upper portion of the vein. The vein has not been explored lower than 540 feet below the collar of the shaft. Present production

1. Bagdad district (Mountain Spring, Pinafor, and Hillside Mines; see separate reports on Copper King and Old Dick Mines)
2. Yavapai County, Arizona
3. Valerie Rossi and Bill Green, Bagdad, Arizona
4. E. A. Stone
5. May 25, 1945 and in December, 1945
6. Lead-zinc-copper
7. "The Bagdad area may offer a source of considerable lead-zinc ore. The orebodies observed are small but of very good grade. A detailed study of the area may uncover other orebodies. . . . Some very good grade lead-zinc sulphide ore was encountered in the vein gouge of the Mountain Spring Mine but no important volume. . . . Considerable work has been done on the Pinafor and a few cars of zinc ore have been shipped from the Pinafor, which is a small chimney similar to the Copper King. . . . If the Hillside Mine should become available and the grade and tonnage is as indicated, it may supply a backlog for a mill in the area. In this event the small high-grade orebodies could be handled more profitably."

8. \_\_\_\_\_

\* \* \* \* \*

THE EAGLE-PICHER MINING & SMELTING COMPANY  
MIAMI, OKLAHOMA



INTRA-COMPANY  
CORRESPONDENCE

TO Grover Duff - Tucson Office  
FROM John W. Chandler - Miami Office  
SUBJECT: Exploration Work

DATE April 6, 1951

Dear Grover:

We are presently compiling a record of all the mines and prospects which we have examined for the Company during the past 10 years.

Starting with 1940, and listing the work done by years, such as 1940, 1941, 1942, etc., we would like to have the following information tabulated:

1. Name of property
2. Location - (State and County)
3. Who it was submitted by
4. Who made the examination
5. Time spent on the examination
6. Metals involved
7. General conclusions drawn from examination
8. Remarks - Under this heading could be shown whether we have done drilling or any other work in addition to the examination. Give brief outline. If the property subsequently became a mine unit and was operated so state.

We do not have a complete file in this office on all properties examined by the Company and we will combine your report with the one being made up from our files to make the final report complete. I would appreciate it if you could put someone on this work until it is completed, sending me three copies of your tabulation.

Best regards,

*Jack.*

John W. Chandler.

JWC/jm

4-25-51 - Mr. Chandler will send us a list of the properties on which they have reports in their files, and we will then send him the information on the others.

GJD

W  
**United States Senate**

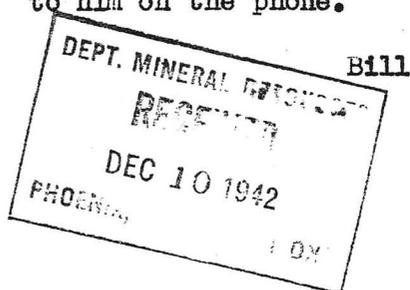
**MEMORANDUM**

Dec. 8

Have been at Hearings all day with  
Jim England and Talbot.

Also doing a little more scheming on how  
to get them off the spot. The ship  
is not yet lost.

REM Davis got in this morning, but I  
have not yet seen him, though talked  
to him on the phone.



# United States Senate

## MEMORANDUM

Dec. 4

Memo on Boulder:

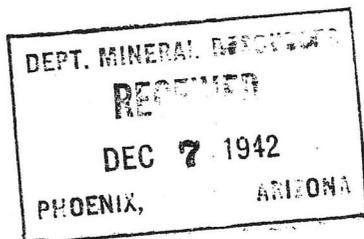
I hear that the bank in Philadelphia turned jim England down for enough money to pay the taxes. They have his personal assets in hock for enough to pay them off and don't see why they should take any chances.

It means that the mine will be lost and England will be ~~xxx~~ ruined.

However, I intend to find out why the WPA doesn't want this zinc badly enough to OK the deal to the RFC when zinc is said to be so tight.

Also why they couldn't have found out months ago that the project is not self-liquidating or is too costly in men and materials on a zinc basis.

I understand that Fred Seales, who runs the Facilities and Supply Committee, was heard to say that there is no use trying to start up small zinc mines anyway, as he could take the same money and salvage more in the secondary market. It this is true, he is a damned fool, as I can't think of a less likely metal to find as scrap.



Bill

United States Senate

MEMORANDUM

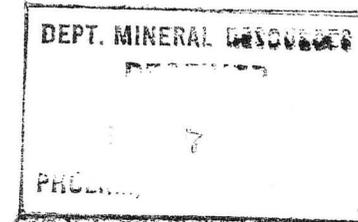
Dec. 4, 1942

I worked a good deal of today, as yesterday, on the Boulder case.

It certainly makes me feel bad to have this go overboard.

Of course, I know the mine is marginal, but after all, it has a lot of zinc and lead ore blocked out which could be salvaged, and if the mine is shut down and the pumps pulled, the ground is so heavy that it will certainly be lost to any future operator.

Bill Broadgate



*CV*

United States Senate

*Revised*

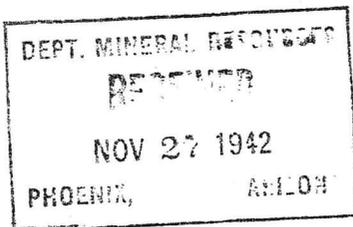
MEMORANDUM

Nov. 23

Dear Sam,

Jim England flew west Friday night to meet a USGS man (B.S. Butler) at the Hillside.

He usually stops at the Westward Ho and you might be interested in contacting him there and get the latest dope on his deal.



Bill

*e-*



DEPARTMENT OF MINERAL RESOURCES

State of Arizona

MINE OWNER'S REPORT

Date..... October 29, 1958.....

- 1. Mine:.....  Hillside Mine.....
- 2. Location: Sec. 16 & 21 Twp. 15N..... Range 9W..... Nearest Town Bagdad..... Distance 9 1/2 Miles  
 Direction South..... Nearest R.R. Hillside, Arizona..... Distance 32 Miles  
 Road Conditions from Bagdad to mine road in poor condition.....
- 3. Mining District and County:..... Eureka Mining District, Yavapai County.....
- 4. Former Name of Mine:.....
- 5. Owner:.....  Hillside Mining & Milling Company.....  
 Address: Bagdad, Arizona.....
- 6. Operator:.....  Negotiating lease with Marcy-Shenandoah.....  
 Address: Durango, Colorado.....
- 7. Principal Minerals:.....  Lead, Zinc, Gold, Silver.....
- 8. Number of Claims: Lode 20..... Patented 6..... Unpatented 14.....  
 Placer..... Patented..... Unpatented.....
- 9. Type of Surrounding Terrain:..... Mountainous.....
- 10. Geology and Mineralization:..... Vein Type. Contact between granite and schist.....
- 11. Dimension and Value of Ore Body:..... Mineralize length 1500 feet.....

\*

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective lessors or buyers.

12. Ore "Blocked Out" or "In Sight": Unknown

Ore Probable: \_\_\_\_\_

13. Mine Workings—Amount and Condition: Shaft Caved.

No.	Feet	Condition
Shafts		
Raises		
Tunnels		
Crosscuts		
Stopes		

14. Water Supply: Mine and surface waters

15. Brief History: ~~\$150,000 up / \$50,000 down / \$15,000 per year~~

16. Remarks: \_\_\_\_\_

17. If Property for Sale, List Approximate Price and Terms: \$150,000

\$50,000 Down - \$15,000 per year.

18. Signature: *Robert E. Bagart*

Secretary & General Manager

DEPARTMENT OF MINER RESOURCES  
STATE OF ARIZONA

FIELD ENGINEERS REPORT

Date *Oct. 12, 1939*  
Engineer *Lowell G. Baird Jr*  
Location *32 miles N.W. Hillside Sta. Yavapai County Hillside*  
Address *Prescott*  
Gen. Mgr. *Same*  
Mill Supt.

Mine *✓ Hillside*  
District *Eureka*  
Former name *Same*  
Owner *✓ Hillside Mines Inc.*  
Operator *Same*  
President *✓ H. L. Williams*  
Mine Supt. *✓ H. L. Williams, Jr.*

Principal Metals *✓ Gold, Silver, Lead Zinc* Men Employed *75 - 120*  
Production Rate *150 - 180 tons day* Mill: Type & Cap. *Flotation*  
Power: Amt. & Type *Diesel Electric approx 350 HP Denver Cells.*  
Operations: Present *Mining, Milling, developing*

Operations Planned

**HILLSIDE MINES, INC.**  
Au  
Yavapai 13 - 4 T 15 N, R 9 W  
H. L. Williams, Box 1226, Prescott '39

Number Claims, Title, etc.

*5 Patented - some unpatented*

Description: Topog. & Geog.

*East side Boulder Creek in a deep Canon.*

Mine Workings: Amt. & Condition

\* *700 ft. shaft - 7 levels  
1500 ft. in length -*

Geology & Mineralization

Approx Vertical Fault zone N15° E in Schist  
Quartz vein. Sulphides Galena, Sphalerite  
Pyrite.

Ore: Positive & Probable, Ore Dumps, Tailings

Mine, Mill Equipment & Flow Sheet

I.R. & Sullivan Compressors.  
Crusher  
64 1/2 Marcy Mill, Dorr Classifier - Fahrenwald  
Cells - Thickeners - Oliver Filters.

Road Conditions, Route

Good county road.

Water Supply

Mine & Boulder Creek.

Brief History

Disc. 1887 ✓ John Lowler, 1892 ✓ Seven Stars  
Gold Mining Co. 1934 Hillside Mines  
Prod. to date est. \$ 2,500,000

Special Problems, Reports Filed

Remarks

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

\*

Signed

Carl G. Barilgt

Use additional sheets if necessary. Separate sheets on each problem.

BOULDER MINING CO.

Au, Ag, Pb, Zn

Yavapai

13 - 5

T 1 S, R 9 W

J. W. England, Rt. 2, Box 268, Phoenix

'42

NAME OF MINE: HILLSIDE ✓

COUNTY: YAVAPAI C

DISTRICT:

METALS: CU, PB, ZN

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

DATE:

✓ James W. England, Jr. Pres.	7/25/42	RFC loan granted \$20,000
✓ Henry Williams, Jr., Mgr. Country Club, Prescott	10/23/42 1/44	RFC loan granted \$20,000 Shut down
✓ Jack Tenney, Hillside (opr.)	6/21/44	Cleaning up mill & shipping salvaged concen.
10/46 ✓ E. R. Dickie, Bagdad	2/45 10/46	Idle Developing

\*

No. De 443

Phoenix, Arizona,

16

VALUES

CHAS. A. DIEHL

Feb. 22, 1950

# Arizona Assay Office

oz. Gold.....  
 oz. Silver.....  
 1 lb. Copper.....  
 1 lb. Lead.....  
 1 lb. Zinc.....

Phone 3-4001

815 North First Street

P. O. Box 1148

THIS CERTIFIES That samples submitted for assay by

DEPARTMENT OF MINERAL RESOURCES

contain as follows per ton of 2000 lbs. Avoir.

MARKS	SILVER		VALUE	GOLD		VALUE	TOTAL VALUE of Gold & Silver	PERCENTAGE				REMARKS
	Ozs.	Tenths		Ozs.	100ths							
	4	3	\$3.89	.10		\$3.50						

*Hillside underground  
 Museum  
 Section #30 series*

Charges \$1.25 Grinding  
 \$1.50  
 \$2.75 Total

Assayer *[Signature]* ARIZONA ASSAY OFFICE \*

DEPT. MINERAL RESOURCES  
RECEIVED  
DEC 14 1942  
PHOENIX, ARIZONA

RECONSTRUCTION FINANCE CORPORATION

WASHINGTON

December 11, 1942

Honorable Carl Hayden,  
Senate Office Building  
Washington, D. C.

My dear Senator Hayden:

I am in receipt of your letter of December 8, 1942, with reference to the action the Directors took last Saturday respecting the tax situation of the Boulder Mining Co.

You note that the Company's benefit from this action may not be realized because of the requirement of our authorization that a first lien be obtained securing not only the new advance for taxes but previous advances for mine development. You ask that the applicant, through Mr. England, be promptly notified that it was not the intent of the Corporation to require the first lien for the previous advances.

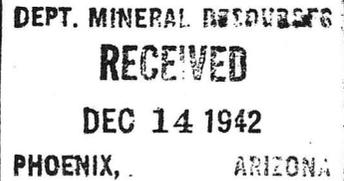
The suggestion in your letter was considered by the Directors this morning but they did not feel justified in altering the position they took last Saturday, in view of the circumstances. Under date of December 8, in a letter addressed to the Secretary of Commerce by J. R. Kimberly, Deputy Director General for Industry Divisions, W.P.B., supported by the Director of the Zinc Division in a memo dated December 4, the War Production Board withdrew its recommendation of April 16, 1942 and suggested that no further loan be granted.

War Production Board figured that the manpower and critical materials involved in the proposed \$200,000 loan to this applicant were too great in proportion to the amount of zinc that could be recovered; that the same elements used elsewhere would make a bigger net production and advantage in the war effort. It observed that over half of the values in this mine are in gold and silver which are not needed, that the lead is not needed. WPB felt that the relatively small tonnage of zinc would not justify the entire load of money, manpower, and materials the whole operation necessary involves, and that the loan would not be advantageous to the national defense.

With kind personal regards,

Sincerely yours,  
(signed)

Charles B. Henderson



Washington, D.C.  
Dec. 9, 1942

Mine Loans  
SUBJECT: Boulder Mining Co.,  
Christmas, etc., WPB policies.

Enclosed is a page from PM, which featured the England testimony yesterday and it is better than any report I could write you of the Hearings. For such a technical matter the reporter did very well indeed, although there are some slips due to ignorance of the subject and the involved testimony. I think, however, the man really did very well with it.

Naturally, it is not known at RFC or WPB that I arranged for England to appear.

Wednesday of next week, I expect that there will be a chance, right after Ickes goes on the stand, to wedge in a copper case and I have in mind the Christmas Copper Company. My spies in the WPB Copper Branch tell me that the Branch was greatly disappointed when Christmas was turned down as they think it to be a good deal from all standpoints. But there it is, idle, and we are supposed to want copper. I have suggested to the Committee that it call Roland Knight, who is in Massachusetts, to tell his story. It would please the Copper Branch very much if he did.

Have been in conversation with Dr. Farley on the Huachuca tungsten deal, which is meeting with very much the same technique on the part of WPB.

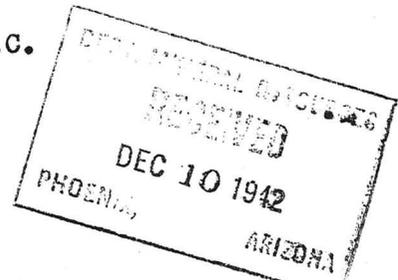
I believe there is about only one thing to do if things get any worse and that is to let the air of publicity into as many of these sour situations as possible.

At least we will find out if they actually want copper and zinc.

Bill Broadgate

Washington, D.C.  
Dec. 7, 1942

Mine Loans  
Subject; Hillside Mine  
Boulder Mining Company



I am afraid that I was too optimistic about the offer of the RFC to pay off the taxes and save this property.

Jim England came down today and went into the matter and the terms they dictate will probably be impossible for England to fulfill.

I am glad that I did not get any memos in today's mail to handle any cases, as I have been all day on the Hillside matter excepting for one trip to the WPB and I am way behind with my office work.

Tomorrow I shall be in Hearings practically all day.

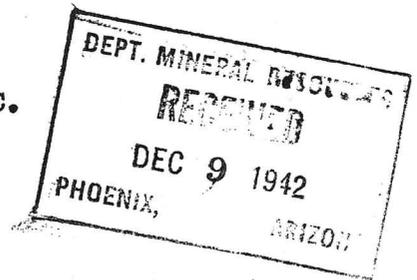
As you will note from the enclosed, schedule, Jim England will appear and spread on the record the whole sordid story... and it will be some story. It may not result in saving him, although the last die is not yet cast, but it may help others to follow him.

I think the WPB and the RFC will have some tall explaining to do when the Boulder case goes into the record.

Senator Ellender will preside tomorrow, as Murray must be away on other business.

Bill Broadgate

Washington, D.C.  
Dec. 5, 1942



Mine Loans  
SUBJECT: Boulder Mining Co

I just got a phone call from Jim England in Philadelphia to the effect that he has a wire from the RFC stating that they will pay the taxes on the property.

That is what a threat of Congressional investigation has done.

Now you see what a spot they are going to be in.... if, as they and the WPB claims, the mine is no good and should be shut down (according to advices from Bill Batt), why should they throw good money after bad, any more than a banker would? If I was in RFC's place and was sure of my ground, I certainly should not put out nearly \$20,000 to save \$40,000, if indeed it would save it, as if WPB closed the mine down, the investment would be lost anyway. Something ~~stinks~~ stinks!

This is going to give us time to put the WPB on the stand and inquire into the proposition.

I believe that RFC was afraid of being accused on the stand at Hearings, of losing England the property by vacillating for 9 or 10 months and deciding 2 days ~~before~~ before the deadline.

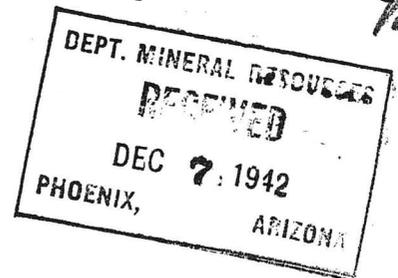
I looked over the WPB files yesterday as they came to the Committee and certainly there is nothing which would justify Heikes statement that the property is sub-marginal and should be closed down.

Anyway, if this doesn't get England the total loan he asks for, it will at least save the property and help other people. Doug Corner told me last night that he had had more action from the zinc branch on his deal in the last two days than in the previous month.

England is coming down on Monday and I am going over the whole deal with him. We will put him on the stand Tuesday and let him tell the whole story of his dealings with WPB and RFC for the record. Then this will give the Committee the chance to study the record and know what questions to ask the WPB to expose the lousy situation there and find out why no one seems to be able to get less than a million dollar deal OK'd by them.

We may get the whole deal through yet.

Bill Broadgate



Dec. 4, 1942

Hotel Harrington,  
Washington, D.C.

H

Mr. J. W. England, Jr.,  
1519 Walnut Street,  
Philadelphia, Pa.

Dear Jim,

The Senate Special Committee to Study Problems of American Small Business will be prepared to hold hearings on the Boulder Mining case on Tuesday.

I shall take it as a personal favor if you and Mr. Talbot can be present in Washington Monday afternoon so that we may go over your case with Mr. Helfgott and Mr. Gross to determine the line of questioning.

Please let me know by wire as to your intentions.

Very truly yours,

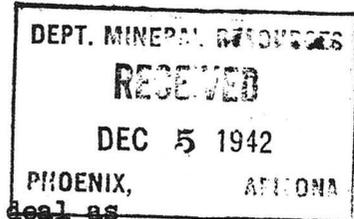
W. C. Broadgate  
Asst. Director

CC/ Mr. Gross

CONFIDENTIAL

Washington, D.C.  
Dec. 3, 1942

SUBJECT: Mine Loans,  
Boulder Mining Company



I have been working for some time with England on this deal as you know.

Was on it nearly all day yesterday when I was out of the Hearings on the RFC bills, and again today, and probably a good deal of tomorrow.

After nearly a year of dilatory tactics, they decided this afternoon at a conference of the WPB Zinc Branch and the RFC Mining Section that the project is not self-liquidating and therefore they cannot approve it, which means pulling the pumps and ruining the mine.

Furthermore, as they have known for months, the property is lost on Dec. 6th unless England can raise the taxes as it finally goes to the State of Arizona at that time. Thursday the 3rd is a fine time to render a decision that could have been given months ago so they would have had time to try and save the property.

England is off to Philadelphia to try and save the mine by borrowing enough to pay the taxes, but it is doubtful if he can. We got in touch with Bill Batt, Deputy Director WPB by phone tonight and he is going to talk it over with the Zinc Branch tomorrow morning, but do not hope much of this.

I intend to make the WPB show us, if they are so avid for zinc, why dollars are so important to them. I have had the Murray Committee of the Senate this afternoon send for the RFC and WPB files on this case for study. I did not do this until the flat "no" was given as we did not want to jeopardize the deal. I have heard that it is expected that the largest part of the zinc mines are supposed to be exhausted at the present rate of production by the end of '43 and that we will have to depend on imports after that.... yet they evidently don't want to put out money or materials for small mines.

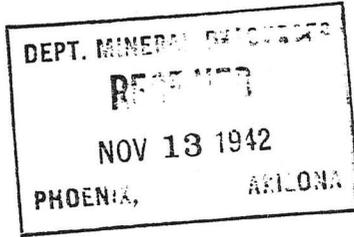
I know that Boulder is marginal, but there is 147,000 tons of ore available that can be liquidated and the 10th level looks better in ~~metal~~ metal content than any of the others. It scarcely seems possible that the loan could not be paid back; but it is the metal production that we are losing that interests me, not the financial merits of the case. It stinks, it seems to me, the stink being somewhere in the WPB.

Bill Broadgate

BOULDER MINING COMPANY

Hillside Mines  
HILLSIDE, ARIZONA

Office of the President:  
1519 WALNUT STREET  
Philadelphia, Pa.



Nov. 3, 1942

Dear Bill

Sorry to have missed you today. We have filed papers all over Washington R.F.C. - Geo. to Board - Bureau of Reclamation for Power line etc. They are all working. We will be back in a day or so to make sure the business are hot.

Have you read the first article in the new Readers Digest on silver? For Peter's sake write an answer in your own inimitable way and send it to the Digest for next month's issue. Make you famous over night and maybe counteract some of the damage.

See you later in the week.

Jim England

Washington, D.C.  
Oct. 9, 1942

*TSC* *BJA*  
DEPT. MINERAL RESOURCES  
RECEIVED  
OCT 12 1942  
PHOENIX, ARIZONA

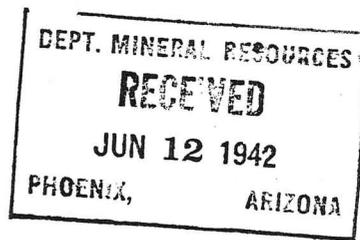
SUBJECT: Mine Loans  
Hillside Mine.

Jim England and I lunched today and discussed the mine loan situation as it applied to him at length and was able to give him some advice which he considered good on how to get his \$200,000 loan through. ~~It~~ In the interim he is going to extend his \$20,000 loan to \$40,000 under the development program.

Bill Broadgate

PROBLEMS

By A. C. Nebeker



JUNE 10th, 1942.

BOULDER MINING CO.  
HILLSIDE, ARIZ.

The problem these people are expecting to come up, is labor.  
They have hard time getting men and keeping them.

They are trying to hurry their loan through Washington and have keep their  
President and Mr. Barbour in Washington for some time working on this.

A handwritten signature in cursive script, appearing to read "A. C. Nebeker".