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Reward Mine

Aug. 31, 1965

Mr. James W. Dean
Eastern Petroleum Co.
P. O. Box 291
Carmi, Illinois

Dear Jim:

At my request, Frank Hallis has sent you a submittal on the Beach properties in Pima County. To save time and because I think its a good property, I had Frank to use my facilities and typewriter to make the submittal. He has the deal out to only one outfit - a mud company in Houston. I don't know the name but it may be Macobar.

As I told you on the phone, this is the best prospect I've checked out in several months. I believe my report to Frank, together with the many newspaper clippings, will give you an idea of the activity in the area as well as the urgency. The Beach properties lie right in the fairway and I believe there is better than a 50-50 chance for commercial ore at a feasonable depth.

The mag map, along with an Induced Polorization survey should pin-point the first hole or two. The mining companies are using both geophysical methods with their surface geology.

The Reward Mine on the Papago appears to be limited in scope. Most of the area was mined for Zinc rather than copper. Most of the hre has been mined out so new bodies must be found. The was no evidence of a large ore body to the east except a few malachite stains along a fault zone. Core drilling would be a must before any type mining was done. The property is low grade at best with low grade copper and zinc ore bodies of limited size. The steep dips, 27 to 40 degrees, is not conducive to simple open pit operations. There apparently is no molybdenum enrichment in this area, which is a large factor in the Pima district. The Moly content makes some of the low grade copper properties commercial. Mly is worth about \$1.75 per pound.

I hope you will come down and see the property. I feel it may fit your picture and a reasonable deal can be worked out. Beach has about \$58,000 invested in the area in core holes, roads, pits and other geological work. He's been trying to get a half million bucks in cash but I told him it was only a good prospect so a drilling option was the only way he could sell it. It apparently agrees now.

Sincerely,

S. C. Brown

Personal Memo

Aug. 31, 1962

Mr. James W. Dean
Eastern Petroleum Co.
P. O. Box 291
Carroll, Illinois

Dear Jim:

At my request, Frank Hallie has sent you a submittal on the beach properties in Pima County. To save time and because I think it's a good property, I had Frank to use my facilities and typewriter to make the submittal. He has the deal out to only one outfit - a mad company in Houston. I don't know the name but it may be Macobar.

As I told you on the phone, this is the best prospect I've checked out in several months. I believe my report to Frank, together with the many newspaper clippings, will give you an idea of the activity in the area as well as the agency. The beach properties lie right in the fairway and I believe there is better than a 50-50 chance for commercial ore at a reasonable depth.

The mag map, along with an induced polarization survey should pin-point the first hole or two. The mining companies are using both geophysical methods with their surface geology.

The Reward Mine on the Papago appears to be limited in scope. Most of the area was mined for zinc rather than copper. Most of the ore has been mined out so new bodies must be found. There was no evidence of a large ore body to the east except a low malachite stain along a fault zone. Core drilling would be a must before any type mining was done. The property is low grade at best with low grade copper and zinc ore bodies of limited size. The steep dips, 27 to 40 degrees, is not conducive to simple open pit operations. There apparently is no malachite enrichment in this area, which is a large factor in the Pima district. The Moily content makes some of the low grade copper properties commercial. My is worth about \$1.75 per pound.

I hope you will come down and see the property. I feel it may fit your picture and a reasonable deal can be worked out. Beach has about \$28,000 invested in the area in core holes, roads, pits and other geological work. He's been trying to get a half million bucks in cash but I told him it was only a good prospect so a drilling option was the only way he could sell it. It apparently agrees now.

Sincerely,

E. C. Brown

REWARD MINE

June 19, 1942

Casa Grande (Vekol)

George A. Ballam

This property is situated in the Casa Grande (Vekol) district, about 40 miles SW. Casa Grande. It consists of 31 claims, two of which are patented. The owners are Kent Pomeroy, 532 W. Virginia Ave., and Dr. Harry L. Schornick, 743 E. McDowell Rd., Phoenix. The owners have recently obtained a \$20,000 "B" loan which is now ready for requisition.

During the period 1885-1929, 400,000 pounds of copper valued at \$70,000 were shipped from the mine. At that time, the zinc values were ignored. More recently considerable work has been done opening up the zinc, but no shipments have been made. The old camp buildings, mine buildings, smelter, and all equipment have been removed from the property.

There are extensive workings on the east end of the group which was worked for copper, including a 1,000' shaft and several of 60' to 400' in depth. However, since the owners are at present interested in developing the zinc on the west end of the group, particular attention was paid to that area. Mr. O. Bishop of the U. S. Bureau of Mines accompanied Mr. Pomeroy and myself on a preliminary examination of the property. The Bureau is contemplating establishment of a project, perhaps with a view to diamond drilling as recommended by the R.F.C.

There is a tunnel cutting three beds of limestone dipping to the north into a mountain. These are overlaid by what is purported to be zinc carbonate which was sampled by Mr. Bishop. A fourth bed, dipping somewhat less than the others, traceable on the surface, has not been cut by the tunnel at 600'. About 2000' to the west, a vertical shaft 430' deep was sunk on the third outcrop. The shaft is dry and untimbered. This was sampled on the lower levels on each of which there was about 100' of drifting. Between the shaft and tunnel an inclined shaft about 50' deep had recently been sunk on one of the upper beds, and in this about 6' of sulfide running 21 per cent zinc has been exposed.

The owners plan to timber the shaft and sink on the incline as soon as funds are available for requisition, Mr. Pomeroy informed me however, that he had signed a resolution to abide by the decision of the R.F.C. relative to development.

The property is accessible by road and has good water supply, drilled well. About 2000 tons on the dump carry good zinc values.

By: George A. Ballam

June 12, 1925

George A. Ballin

REWARD MINE

Cass Grande (Vekol)

This property is situated in the Cass Grande (Vekol) district, about 40 miles SW. Cass Grande. It consists of 31 claims, two of which are patented. The owners are Kent Pomeroy, 232 W. Virginia Ave., and Dr. Harry J. Seborwick, 743 E. McDowell Rd., Phoenix. The owners have recently obtained a \$20,000 loan which is now ready for redemption.

During the period 1887-1922, 400,000 pounds of copper valued at \$70,000 were shipped from the mine. At that time, the mine values were ignored. More recently considerable work has been done opening up the mine, but no shipments have been made. The old camp buildings, mine buildings, smelter, and all equipment have been removed from the property.

There are extensive workings on the east end of the group which were worked for copper, including a 1,000' shaft and several of 60' to 100' in depth. However, since the owners are at present interested in developing the mine on the west end of the group, particular attention was paid to that area. Mr. O. Bishop of the U. S. Bureau of Mines accompanied Mr. Pomeroy and myself on a preliminary examination of the property. The Bureau is contemplating establishment of a project, perhaps with a view to diamond drilling as recommended by the R.F.C.

There is a tunnel cutting through beds of limestone dipping to the north into a mountain. These are overlaid by what is purported to be zinc carbonate which was sampled by Mr. Bishop. A fourth bed, dipping somewhat less than the others, is accessible on the surface, has not been cut by the tunnel at 630'. About 2000' to the west, a vertical shaft 430' deep was sunk on the third outcrop. The shaft is 4' and untimbered. This was sampled on the lower levels on each of which there was about 100' of drilling. Between the shaft and tunnel an inclined shaft about 50' deep had recently been sunk on one of the upper beds, and in this about 6' of white quartz 21 per cent zinc has been exposed.

The owners plan to timber the shaft and sink on the incline as soon as funds are available for redemption. Mr. Pomeroy informed me however, that he had signed a resolution to abide by the decision of the R.F.C. relative to development.

The property is accessible by road and has good water supply, drilled well. About 2000 tons on the dump carry good zinc values.

By: George A. Ballin

History

1885-1929 Shipped 400,000 tons of copper valued
at 600ft ~~and~~ incline

Primarily a zinc mine - not much work done as
copper - Lewis Smith says it's low grade.

RI 3975 Bur. of Mines Report of Swartzalm Nov. 1946

2 patent & 28 lode claims

ore deposits in Palisade limestone - strikes SW by 40° NW.

etc 4500' long shows mineralized zone (zinc)

ore was deposited a short distance along fault zone, but more of it
washed out from fissures along certain replaceable ls. beds.

Bureau work limited to zinc belt 2700' long

Sulphide zinc ore.

Calicheous 300' wide across ^{sp. of} claims

K-Cretaceous clastic rock lies unconformably over the Palisade ls.

followed by porphyry breccia of volcanic ~~origin~~ origin.

Some Garnet work (30' thick) at the LS-Ks contact

Lee Annunzio

Lewis Smith



EPROC ASSOCIATES

DURANGO, COLORADO

P. O. BOX 1710

TELEPHONES CHERRY 7-3076, CHERRY 7-0025

3 faults Rhondone fault - SW of block.
 Newark fault near NE. (4 limit the mineralized area)
 Bat Tunnel fault N-S. 900' displacement
 copper found NE of Bat fault - transverse fault

Copper ore in Newark lime NE of Bat Tunnel fault, is localized along steeply dipping fault in a bed of Cambrian Ls of Dol. partially replaced by ore.

Samples from Bat Tunnel (none were taken in best copper zones however)
 0.02 to 1.10% Cu.
 1.18

2.2' of ore 4.45% Cu in Garnetiferous Ls. chalcocite

Copper carries some silver
 zinc should run 10-12% to be
 copper 5-6% massive

Abward Mine

Pinal Co.

T9S, R3E

Velvet Intn District

Pinal Co.

Cu, Zn

Kent Pomroy

127 N Herbert, Mecca

malachite
chrysocolla
cuprite
w/ red & yellow hematite

red hematite derived oxidation of chalcopyrite & pyrite

ore is siliceous & along good fracture zone.

also contains Gold & Silver

" some zinc

copper lies in NE $\frac{1}{3}$ rd of claim

& zinc in the SW portion

Sept 16, 1964 George Freeman says Keystone Chemical (Wm & Haley)
Popul City, S. Dakota is going to put in a leaching plant.

EXPLORATION

PRODUCTION

RESERVOIR STUDIES

OPERATIONS

CONSULTING

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Copper Area - Development

R-I 3975

2 shafts - Neward Incline
George Shaft.

Neward Incline at end of 100 foot adit - 100' W of Neward Fault
Incline driven 600' at 27° dip - roughly parallel to fault
a 225-ft. Vertical Winze sunk from end of incline.

Incline is copper ore body partially replace a bed of ls. containing a bed of quartzite

Levels were driven 132, 315, 375, 475, 530 & 600' from

the collar of the incline

The ore was stoped to its limits from both side of the incline
for length of a few feet to 500' down to the 600' level. The walls are
accessible to 100' below the 600' level.

Hole #1 2.5% oxidized copper at 190' & ended in porphyry debris
hole 500' deep

Hole #5 150' S of George shaft. TD 1400'

porphyry debris 475-530

Drabon sulfides in quartzite 800-1000'

small amount Drabon carrying sulphur (Barren) from 1000 to 1400' TD

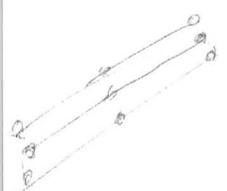
material was also analyzed @ 1000'

Ag-Hit to 0.4%

More zinc than Copper

Zinc .05 - 32.5%

Cu. - .02 - 1.18%
5' cut
Sample # 1391



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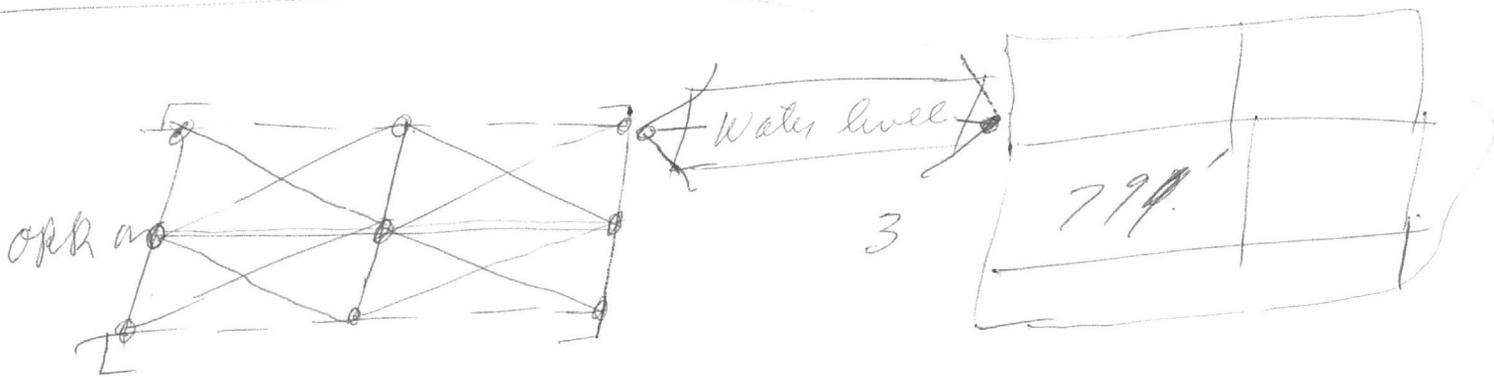


John:
Jim at Dept. of Mineral Resources
258-6681 - Jy

Expect to be back before noon.

B

BV 22 - HAVE GONE TO MEET
JIM AT NATIONAL WASTEWATER
INS. OFFICE.



Frame:-

Proposal from Frank

Walshuer - : Wed

EPROC ASSOCIATES

DURANGO, COLORADO

P. O. BOX 1710

TELEPHONES CHERRY 7-3076, CHERRY 7-0025



Wed - 27th went to property on Papago Reservations
& made inspection of mine, etc. etc.
as verbal white.

Thurs. 28th day of Andy Schaad, Joe Jones, Mr. Dean &
Mr. et. al. - ^{very little data of value.} called in data to Henry Fullop, ^{Comm.} _{no chg.}

Fri - 30th collected data on Nevada Univ & Dept of Mineral
resources - conf of Lewis Smith -
called in data to Jim Dean, Comm. _{no chg.}

150⁰⁰ Service & Expense.

Repeat of ls section.



Revised
Sketch

