

T. E. ARNOLD

082m/s
J+L Property
Revelstoke
(Correspondence)

810774

Phone (201) 531-2426

XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX



BOX 126,
Oakhurst, N. J. 07755

December 28, 1968.

Cyprus Exploration Corp., Ltd.,
510 West Hastings Street,
Vancouver 2, B. C.

Dear Sirs: RE: J&L Mine, Carnes Creek, Revelstoke, B.C.

It was noted in the December 26th issue of the Northern Miner, Page 5, that you are seeking mining properties of merit. If so the J&L should be of interest to you.

Until very recently it was under option, but is presently available. There is quite a bit of ore semi-proven, and a great deal of vein that shows distinct possibilities of developing a considerable tonnage.

If you wish to get some background information there is an old report "Lead-Zinc Deposits of Canada," published by Geological Survey of Canada, available in almost any library. We have a number of later reports available, the latest made in 1967 by a Mr. Joe Sullivan, Geologist of Vancouver, whose address is 2766 West 30th Avenue, Vancouver, B. C., and whose telephone number is 261-0688.

If you are interested in following up this matter please contact me at your earliest convenience.

Incidentally the area around Carnes creek is one that should be handled as a entity, not piecemeal. If one could act speedily most of the country in and around the J&L could be obtained on a reasonable basis.

Very truly yours,


T. E. Arnold.

CC: Your Toronto Office.

TEA/rtt.

CYPRUS EXPLORATION CORPORATION, LTD.
510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

January 21, 1969

Mr. T. E. Arnold,
P.O. Box 126,
OAKHURST, New Jersey,
U.S.A. 07755

Dear Mr. Arnold:

Thank you for your letter of December 28th, 1968,
and I regret the delay in reply as I have been away on
vacation.

We are interested in discussing your J & L Mine
Property at Carnes Creek near Revelstoke, B.C. Please
have Mr. Joe Sullivan contact us at the above address and
give us any information you desire on this property.

Thank you very much for bringing this property to
our attention.

Very truly yours,

CYPRUS EXPLORATION CORPORATION, LTD.



Donald W. Tully
Manager of Exploration - Canada

DWT/jel

T. E. ARNOLD

~~CONFIDENTIAL~~
~~CONFIDENTIAL~~

BOX 126,
Oakhurst, N. J. 07755

January 28, 1969.

Mr. Donald W. Tully,
Manager of Exploration - Canada,
Cyprus Exploration Corp., Ltd.,
510 West Hastings Street,
Vancouver 2, B. C.

Dear Mr. Tully: RE: J&L, Revelstoke, B.C.

Your letter of January 21st has just been received. Enclosed is a poor copy of Mr. Joe Sullivan's report. It is the only copy available at moment. Mr. Sullivan can supply you with a map showing assays, etc., which I have asked him to do, as per enclosed copy of letter to him.

There are also old reports on the earlier workings, the most detailed being by Dr. John E. Riddell, who is now professor of Geology, Carleton University, Ottawa, Ontario. It was made in 1946. The old workings he sampled showed 1692 tons per vertical foot.

The workings Mr. Sullivan sampled are to the north of the old workings, and are under heavy overburden, so were not even surface sampled previously.

It is a pity the work stopped where it did, as the next 4,000 feet ~~south~~ are where the previous surface work was done, and that length was predominantly of ore grade.

There is a complete mining plant on property and camp suitable for development work, cost estimated and reported to be about \$125,000.00

If further details required please let me know.

Sincerely,

T. E. Arnold
T. E. Arnold.

CC: Mr. Joe Sullivan.

TEA/rtt.



T. E. ARNOLD

Phone (201) 531-2426

~~XXXXXXXXXXXXXXXXXXXX~~
~~XXXXXXXXXXXXXXXXXXXX~~

BOX 126,
Oakhurst, N.J. 07755

January 28, 1969

Mr. Donald W. Tully,
Manager of Exploration - Canada,
Cyprus Exploration Corp., Ltd.,
510 West Hastings Street,
Vancouver 2, B. C.

Dear Mr. Tully: RE: J&L, Revelstoke, B.C.

To decide what you wish to do about J&L terms will no doubt have to be considered.

Our terms are a 60/40 deal for putting the property into production at an adequate **rate**, this rate to be determined by development.

The funds required can be made returnable from first profits, provided we get 50¢ per ton royalty during the pay back period.

There is some \$125,000 worth of plant and equipment, plus a useable road into property, we wish to be compensated for. It is necessary to have these facilities to do any work, so it is obvious atleast that sum would have to be expended by anyone doing any work.

If you wish to proceed further with this matter please contact me at your earliest opportunity

Sincerely,


T. E. Arnold

TEA/rtt.

~~CONFIDENTIAL~~
~~CONFIDENTIAL~~
Box 126,
Oakhurst, N. J. 07755

January 28, 1969.

Mr. Joe Sullivan, P. Eng.,
#5--2116 West 39th Avenue,
Vancouver 13, B. C.

Dear Mr. Sullivan: RE: J&L, Revelstoke, B.C.

Several copies of your report have been made, but it seems they go out as fast as received. Anyway please be patient as you will be getting some copies in the near future.

There was a request from a Mr. Donald W. Tully, of Cyprus Exploration Corp., Ltd, of 510 West Hastings Street, Vancouver, for a copy of your report. I sent him the only copy available at the moment, not a good one, but sufficiently legible for use. In this connection it would be appreciated if you would supply him with a copy of your map showing the samplings, and give him any information you feel would be helpful to him in evaluating the property. I have suggested he contact you directly, so it is presumed you will be hearing from him in due course.

As stated some copies of your report will be sent in the near future.

Sincerely,


T. E. Arnold.

CC: Mr. Donald W. Tully, Cyprus Ex. Corp.

TEA/rtt.

CYPRUS EXPLORATION CORPORATION, LTD.
510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

February 4, 1969

Mr. T. E. Arnold,
Box 126,
OAKHURST, New Jersey
U.S.A. 07755

Dear Mr. Arnold:

Re: J & L Property, Revelstoke, B.C.

Thank you for your letter of January 28th, 1969, and the enclosed documents concerning the subject property. After we have had an opportunity to study the data and discuss this with Mr. Sullivan, we will be in contact with you.

Thank you for submitting this property and data to us for consideration.

Very truly yours,

CYPRUS EXPLORATION CORPORATION, LTD.

Donald W. Tully

Donald W. Tully
Manager of Exploration - Canada

DWT/jel

CYPRUS EXPLORATION CORPORATION, LTD.
510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

March 7th, 1969.

Mr. T.E. Arnold,
P.O. Box 126,
Oakhurst,
NEW JERSEY. 07755
U. S. A.

Dear Mr. Arnold,

Thank you for your letter of March 3, 1969,
requesting further information on our plans regarding
your J&L mine near Revelstoke, British Columbia.

I have tried several times to contact Mr.
Joe Sullivan regarding this property. I need to talk
to him to get further information to make plans
regarding an examination

Please contact Mr. Sullivan and ask him to
contact us at the above address as soon as possible,
so we can get together on this matter.

Very truly yours,

CYPRUS EXPLORATION CORPORATION LTD.

Donald W. Tully

Donald W. Tully.
Manager of Exploration - Canada.

DWT/SD

cc: JBPS

T. E. ARNOLD

Phone (201) 531-2426.

~~CONFIDENTIAL~~
~~CONFIDENTIAL~~

BOX 126,
Oakhurst, N. J. 07755

March 3, 1969.

Mr. Donald W. Tully,
Manager of Exploration--Canada,
Cyprus Exploration Corp., Ltd.,
510 West Hastings Street,
Vancouver 2, B. C.

Dear Mr. Tully; RE: J&L Mine, Revelstoke, B.C.

On February 4th last you wrote me you would be going over the report sent, and contacting Mr. Joe Sullivan about the J&L, Revelstoke. So far no indications have been received regarding what you have done, or what interest you may have in the matter.

It is not my wish to press this matter unduly, but as time is very much of the essence, it would be appreciated if you would drop me a line, or contact me by phone, stating what you wish to do, and how soon you can proceed.

As it getting close to the season when there should be action it is my wish to proceed with development this spring if at all possible. There are also other pressing matters that have to be attended to, most of which hinge on what is done with the J&L.

I will expect to hear from you in very near future.

Sincerely,


T. E. Arnold.

P. S. If you are in contact with Mr. Joe Sullivan you can tell him a copy of his report is going out by same mail as this.

RECEIVED
MAR - 5 1969
REGISTRY

CYPRUS EXPLORATION CORPORATION, LTD.
510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

August 4th, 1969

Mr. T.E. Arnold,
Box 126,
Oakhurst,
New Jersey 07755,
U.S.A.

Dear Mr. Arnold,

We acknowledge receipt of your letter addressed to Mr. Tully dated July 28, 1969, regarding your J & L property near Revelstoke, B.C.

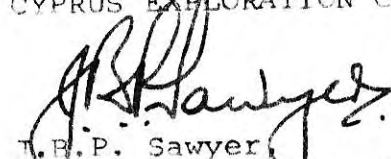
Mr. Tully is no longer with our Company and my knowledge of this situation is only that gained from reading through recent correspondence. From this I gather that Mr. Tully was not able to arrange a meeting with Mr. Sullivan.

At the present time our commitments to our field programme are extremely heavy and we are short of personnel, and it is unlikely therefore that Cyprus Exploration Corporation will be able to undertake any work on your property this year. As time permits later, I will review Mr. Sullivan's report and attempt a meeting with him and if we have any further interest will contact you again.

We regret the delay in acting on your submission and trust that this has not inconvenienced you too greatly.

Yours very truly,

CYPRUS EXPLORATION CORPORATION, LTD.



T.B.P. Sawyer
Manager - Canadian Exploration

/vp

T. E. ARNOLD

POST OFFICE BOX 126
OAKHURST, N. J. 07755

BOX 126,
Oakhurst, N. J. 07755

July 28, 1969

Mr. Don W. Tully,
Manager of Exploration--Canada,
Cyprus Exploration Corp., Ltd.,
510 West Hastings Street,
Vancouver 8, B. C.

Dear Mr. Tully: RE: J&L, Revelstoke, B. C.

It is now several months, in fact since early in March, since any word was received from you, so I am beginning to wonder just what has occurred, if anything. At that time it was understood you were to have contacted Mr. Joe Sullivan, to discuss his report. Apparently, as he has not contacted me, this was not done?

The mine is accessible by jeep, so if you have the time it is strongly urged you make a personal examination, and become satisfied the property is worth going ahead with. If you do decide to do so contact Mr. Len Maley, BOX 353, Revelstoke, B. C., who knows the property well, and can act as guide. He has a telephone under his name so can be contacted first if you wish.

At the moment most of the area can be acquired on good terms, which has not been the case for some time. For this reason it is of double interest to you at the moment.

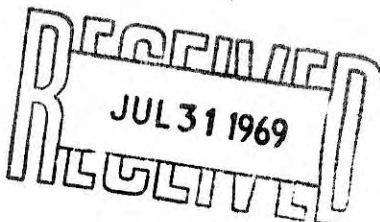
If you require reports, maps, etc., there is now a set available here that can be sent you for examination.

It would be appreciated if you would contact me and let me know just how things stand and what, if anything, you intend to do this season.

Sincerely yours,

T. E. Arnold
T. E. Arnold.

TEA/rtt.



JYS → CCM → File

CYPRUS EXPLORATION CORPORATION, LTD.
510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

March 19, 1970

Mr. T. E. Arnold,
P.O. Box 126,
OAKHURST, N.J.
U.S.A. 07755

Dear Mr. Arnold:

We acknowledge with thanks your letter of March 12th regarding your low-grade nickel-iron-cobalt material. These occurrences which you describe sound interesting, but on the basis of the information in your letter, it is difficult to get a good picture of the situation or its potential. I think it would perhaps be to our advantage to discuss the matter further if we can arrange a meeting some time.

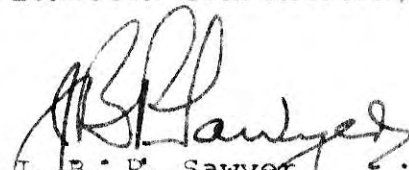
I expect to be in Toronto for about a week in April and if convenient, I could perhaps arrange to meet you there or elsewhere. Alternatively, if you are planning to be out West at any time, I would be glad to meet with you here.

If you could send us some details regarding the mineralogy of these deposits and your proposed method of treatment, this would help. It would probably be possible to arrange for metallurgical and/or other tests through the Mines Branch in Ottawa.

We shall look forward to hearing from you further regarding this matter at your convenience.

Yours very truly,

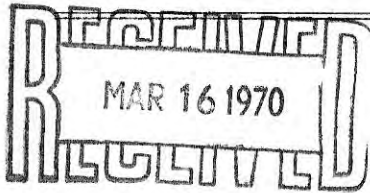
CYPRUS EXPLORATION CORPORATION, LTD.



T. B. P. Sawyer
Manager - Canadian Exploration

TBPS/jel

T. E. ARNOLD



Phone (201) 531-2426

P. O. BOX 126
OAKHURST, N. J. 07755

March 12, 1970.

Mr. J. B. P. Sawyer,
Manager - Canadian Exploration,
Cyprus Exploration Corp., Ltd.,
510 West Hastings Street,
Vancouver 2, B. C.

Dear Sir:

Last August we had some correspondence regarding the J&L Mine, Revelstoke, B. C. At that time a Mr. Joe Sullivan, who knows the property, was to contact you. It is concluded you have not, as yet, made contact. After considering the matter this is not entirely unexpected.

This letter is about an entirely unrelated matter, namely a huge area of nickel bearing rock in another part of Canada. There is an area atleast 25 miles long, probably 100 miles or more, and atleast 2 miles in width that averages 0.2% in easily recoverable nickel in the form of nickel-iron alloy pellets. This 0.2% figure was arrived at after very extensive and thorough sampling by many reliable parties, so can be considered correct. There is probably a like amount of nickel in the form of silicate, plus other recoverable minerals that would add appreciably to the value of the material to be treated. There is also quite a bit of magnetic concentrate in the form of oxide that would average approximately 4% nickel.

The concentrate of the nickel-iron alloy would average approximately 65% nickel; 1% cobalt; plus an appreciable content of the platinum group metals, and some gold and silver.

All the necessary development work has been done, so one could start mining immediately on any scale desired. All that is required is a proper treatment plant to get into operation. I envision an operation with a minimum of 5,000 tons daily to one well over 100,000 tons daily. Open pit methods can be used throughout.

Our organization has an option on 750 acres, and can expand the holding indefinitely.

Frankly, although I know this situation is as represented, and will prove to be a money maker, it is a bit on the large size for me to handle. Therefore, if you have any constructive thoughts how we might cooperate advantageously for all concerned in getting this matter launched, please let me know soon as possible.

Sincerely,


T. E. Arnold.

TEA/rtt.
P.S. There are similar areas in B.C., and Yukon, but undeveloped.

T. E. ARNOLD

Phone (201) 531-2426

P. O. BOX 126
OAKHURST, N. J. 07755

March 27, 1970.

Mr. J. S. P. Sawyer,
Manager - Canadian Exploration,
Cyprus Exploration Corp., Ltd.,
510 West Hastings Street,
Vancouver 2, B. C.

Dear Mr. Sawyer:

Thank you for your letter of March 19th last, received this morning. As you will probably take off for Toronto in near future it is thought best to answer immediately.


Attached is a copy of part of a letter to me of some years back describing the deposit. I know the area well, and the geology is well covered. At that time my electrohydraulic machine was functioning. We did manage to separate out the nodules of alloy, but cost was prohibitive.

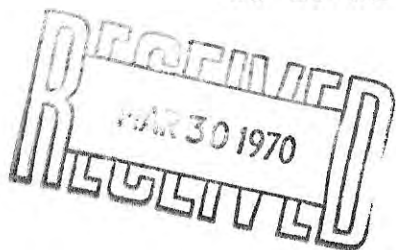
Some recent work would indicate the separation can be affected readily at reasonable cost, say around \$1.50 per ton if done on a large scale, so magnetic concentration in a Jones separator is feasible and effective. On the other hand a complete leach of the rock would produce some products that have a ready sale, and it might be better to do a complete job, even though plant cost would be higher. I can explain details when required.

Your idea of meeting when East would be a very constructive idea. It is sometimes possible for me to get to Toronto, but whether that can be done during the time you are there is problematical. In any event you might arrange to fly to New York and meet there, although, frankly, I don't recommend anyone visiting NYC if same can be avoided. That for obvious reasons. Anyway if a meeting could be arranged we could discuss this matter, and possibly the J&L, and even some other mining matters that might prove of interest. I have a chest full of possible properties of large low grade type all over continent that are well worth investigation, and all are close to civilization, not in the wilderness of the Yukon, etc.

Please let me know when you intend to be East. You can call me at number given above (unlisted).

Sincerely,


T. E. Arnold.



TEA/rtt.

From private
letters

The host rock containing ~~xxxxxxx~~ veins analyses between .15 and .25% nickel in the form of a natural alloy with cobalt and iron. It is distributed through all the deposits of the (xxxx) area. The nickel usually occurs as very small spheroids which are not freely released in common usage. I would suspect that this would be an interesting field for you to pursue since the development of internal stress may well cause a more effective particulation ensuring that the spheroids are free. If this can be done, one might anticipate magnetic separation to be more effective than the experimental work to date has been able to achieve.

The area referred to is atleast 25 miles in length by 2 miles in breadth. It is probably 100 or miles in length, as extensions have never been followed carefully.

The area covered by my option is 725 acres in extent, and is an abandoned mine. There is still a great deal of the original ore mined/^{left}at depth, which could be recovered at a later date.

The pellets run approximately::

Fe-----	34%	Quite a bit of the platinum group elements and some gold and silver.
Ni-----	65%	
Co-----	1%	

A magnetic (oxide) concentrate would analyze about 4% nickel. There are other recoverable minerals and elements that could add appreciably to value of material treated.

The host rock silicate assays approximately 0.2% nickel, which is recoverable by leaching. There are atleast 100,000,000 tons immediately available for treatment.

CYPRUS EXPLORATION CORPORATION LTD.

510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA

TELEPHONE: 683-9304

April 1, 1970

Mr. T. E. Arnold,
P.O. Box 126,
CAKHURST, New Jersey
U.S.A. 07755

Dear Mr. Arnold:

Thank you for your letter of March 27th.

I expect to be in Toronto from about April 15th to 22nd and will contact you by telephone from there as you suggest. It may be possible for me to arrange to meet you in New York after April 22nd at which time we can discuss any proposals which you may have.

Yours very truly,

CYPRUS EXPLORATION CORPORATION, LTD.


J. B. P. Sawyer
Manager - Canadian Exploration

JBPS/jel

T. E. ARNOLD

RECEIVED
APR 8 - 1970
RECEIVED

Phone (201) 531-2426

P. O. BOX 126
OAKHURST, N. J. 07755

April 6, 1970.

Mr. J. B. P. Sawyer,
Manager--Canadian Exploration,
Cyprus Exploration Corp., Ltd.,
510 West Hastings Street,
Vancouver 2, B. C.

Dear Mr. Sawyer:

Your letter of April 1st last was received this morning.

There are several properties known to me that are worthy of investigation as very large open pit operations. Most are in various parts of Canada, both east and west, although some are down here.

One of the chief reasons for suggesting we meet in New York City is most of my data are down here and are available on a few hours' notice, which would not be the case if we met in Toronto. Nevertheless if such is not possible I could arrange to meet you in Toronto, although sparing the time at the moment would be difficult. I can assure you you will not be wasting your time by coming to New York Ckty. If you don't know NYC suggest you might stay at the Commodore, not because it is the best hotel, but because it is centrally located right at Grand Central, and next to Pan Am Building where the helicopters from airports land.

Will be expecting to hear from you in due course.

Sincerely,

T. E. Arnold.

*In a standard
Bank Bldg - Hastings
& Richards sts*

P. S. I think Jim Elwell has an office in your building in Vancouver? He has had a good look at the J&L data, so may be able to fill you in. He is an old friend of mine.

Would you consider the following. I have a corporation already to go on the J&L. Why not take in the J&L and the nickel under the same organization? That way we could ease ourselves into the nickel, which may take a few months' time to assemble properly. For the nickel theless said the better until everything is in order.

The J&L is OK. There are some very wide zones of low grade probably comparable to grade to Anvil, that have never been scratched I feel one could come up with a real big one in short order.

Please think the above over. It is just a thought.

T. Arnold

T. E. ARNOLD

P. O. BOX 126
OAKHURST, N. J. 07755

August 7, 1970

Mr. J.P.B. SAWYER,
Manager--Canadian Exploration,
Cyprus Corp.,
510 West Hastings Street,
Vancouver 2, B. C.

Dear Mr. Sawyer:

On April 1st, aptly called April Fool's Day, you indicated you would be in Toronto about April 15th, and would be contacting me at that time. As no word was received it was concluded you had a change of plans?

Since that time a considerable amount of investigation regarding the recovery of the nickel-iron alloy has shown it feasible to extract 95% or more of the alloy for approximately \$2.00 to not over \$2.50 per ton. As you rightly surmised the recovery has been the problem to overcome.

The alloy itself assays as follows: Ni-71%; Fe-25.3%; Co-3.5%; Cu-0.2%. This is a very excellent stainless steel, and could be used for that purpose as is. (It is obvious it would not have ^{survived} the ravages of time if it were not corrosion resistant to a very high degree)

The alloy occurs in small pellets averaging 10 microns in size, with a few up to 100 microns and a goodly percentage smaller.

At the moment the J&L is still open. It is strongly urged you have a look at this one in the next few weeks, the sooner the better. You will be agreeably surprised. If you go up there contact Mr. Len Maley of Revelstoke, to act as guide. He knows the area better than anyone, as he has worked there all his life. Attached is rough sectional plan of the one zone so far partially developed. A little more work on this one would produce sufficient good grade ore (\$35 to \$90 per ton in gold silver, lead and zinc) to put on a 500 ton per day plant next year. That is only a starter.

Sincerely,


T. E. Arnold

TEA/rtt.

← N N W →

← 310 T/V FL →

← 568 T/V FL →

← 213 T/V FL →

CREEK

← 191 T/V FL →

380 T/V FL

10 T/V FL

5200 T/V FL

37100 T

350

580 T

100,000 T

155,000 T

284,000 T

106,500 T

3000

44160 T

150,000 T

50,500 T

100,000 T

155,000 T

284,000 T

106,500 T

5000 2500

#1 SHIFTS
#2 SHIFTS
#3 SHIFTS
#4 SHIFTS
#5 SHIFTS
#6 SHIFTS
#7 SHIFTS
#8 SHIFTS
#9 SHIFTS
#10 SHIFTS
#11 SHIFTS
#12 SHIFTS
#13 SHIFTS
#14 SHIFTS
#15 SHIFTS
#16 SHIFTS
#17 SHIFTS
#18 SHIFTS
#19 SHIFTS
#20 SHIFTS
#21 SHIFTS
#22 SHIFTS
#23 SHIFTS
#24 SHIFTS
#25 SHIFTS
#26 SHIFTS
#27 SHIFTS
#28 SHIFTS
#29 SHIFTS
#30 SHIFTS
#31 SHIFTS
#32 SHIFTS
#33 SHIFTS
#34 SHIFTS
#35 SHIFTS
#36 SHIFTS
#37 SHIFTS
#38 SHIFTS
#39 SHIFTS
#40 SHIFTS
#41 SHIFTS
#42 SHIFTS
#43 SHIFTS
#44 SHIFTS
#45 SHIFTS
#46 SHIFTS
#47 SHIFTS
#48 SHIFTS
#49 SHIFTS
#50 SHIFTS
#51 SHIFTS
#52 SHIFTS
#53 SHIFTS
#54 SHIFTS
#55 SHIFTS
#56 SHIFTS
#57 SHIFTS
#58 SHIFTS
#59 SHIFTS
#60 SHIFTS
#61 SHIFTS
#62 SHIFTS
#63 SHIFTS
#64 SHIFTS
#65 SHIFTS
#66 SHIFTS
#67 SHIFTS
#68 SHIFTS
#69 SHIFTS
#70 SHIFTS
#71 SHIFTS
#72 SHIFTS
#73 SHIFTS
#74 SHIFTS
#75 SHIFTS
#76 SHIFTS
#77 SHIFTS
#78 SHIFTS
#79 SHIFTS
#80 SHIFTS
#81 SHIFTS
#82 SHIFTS
#83 SHIFTS
#84 SHIFTS
#85 SHIFTS
#86 SHIFTS
#87 SHIFTS
#88 SHIFTS
#89 SHIFTS
#90 SHIFTS
#91 SHIFTS
#92 SHIFTS
#93 SHIFTS
#94 SHIFTS
#95 SHIFTS
#96 SHIFTS
#97 SHIFTS
#98 SHIFTS
#99 SHIFTS
#100 SHIFTS

A3

B3

B3

C3

D3

E3

A4

B4

CA

DA

EA

F

C2

D2

E2

D

E1

79,575 T

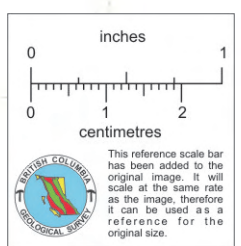
4000

OLD TUNNEL

NEW TUNNEL

SECRETED TUNNEL

(750 FT)



SECTION ALONG VEIN OUTCROP

SCALE 1" = 500' (APPROX)

POSSIBLE TENNAGES

ABOVE

CREEK LEVEL

J&L

CYMET

Administrative Offices:
523 West Sixth Street, Los Angeles, California 90014
Telephone (213) 625-7977

March 26, 1973

Mr. T. E. Arnold
P.O. Box 126
Oakhurst, New Jersey 07755

Dear Mr. Arnold:

Your letter dated January 12, 1973, addressed to the New York office of Cyprus Mines Corporation has been forwarded to Los Angeles and has been brought to my attention.

The Cymet processes are designed to treat base metal sulfide materials such as copper minerals of chalcopyrite, bornite, and chalcocite; lead in galena; zinc in sphalerite and marmatite; and nickel in pentlandite and millerite, without causing pollution.

Economic studies to date indicate that the Cymet processes are economically competitive with custom pyrometallurgical smelters in most cases.

The cost of Cymet plants is considerable and for small mining operations of limited ore reserves it would not be practical to construct a plant, in most cases.

From the meager description of your mineralized deposit, it appears that more detailed information and planning would be required before you consider the erection of a Cymet plant. In this case you might want to contact our exploration office in Vancouver whose address is as follows:

Mr. J. B. P. Sawyer, Manager
Cyprus Exploration Corp., Ltd.
510 West Hastings Street
Vancouver 1, B.C.

Mr. Sawyer's interest primarily would be in acquiring an equity position in the deposit if the tonnage and grade met the criteria established.

Cyprus
Metallurgical
Processes
Corporation

Corporate Office:
225 East Bridger Avenue, Las Vegas, Nevada 89101

Mr. T. E. Arnold

March 26, 1973

Page 2

From the assay information submitted, the grade of material appears to be of commercial interest, assuming that the samples were representative and represented widths of minable material.

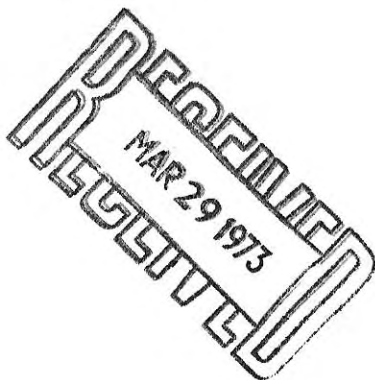
Your interest in Cyprus Metallurgical Processes Corporation is appreciated.

Very truly yours,

Eugene S. Allen
Vice President

ESA:jp

bcc: J. B. P. Sawyer w/Encls.
P. R. Kruesi w/o Encls.
W. E. Hosken w/o Encls.



TO <i>ESH</i>		COMM. #	
RETURN TO			
JAN 27 1973			
1		5	
2		6	
3		7	
4		8	

January 26, 1973

Mr. T. E. Arnold
P. O. Box 126
Oakhurst, N. J. 07755

Dear Mr. Arnold:

Thank you for your letter of January 12 addressed to Mr. Lieber on the subject of our Cymet Process.

Your letter with enclosures is being forwarded to our headquarters office in Los Angeles, where Mr. Lieber is located, and will no doubt be referred to the appropriate engineering staff for consideration and reply.

We appreciate your getting in touch with Cyprus Mines Corporation on this matter.

Very truly yours,

P. S. Reichenbach
CYPRUS MINES CORPORATION

cc-Mr. Kenneth Lieber ✓

T. E. ARNOLD

RECEIVED JAN 13 1973

P. O. BOX 126
OAKHURST, N. J. 07755

January 12, 1973.

Mr. Kenneth Lieber,
President, Cyprus Mines Corp.,
277 Park Avenue,
New York, N. Y.

Dear Mr. Lieber: RE: Cymet Process.

It was noted in the December, 1972 issue of the E&MJ that your Cymet process can handle lead-zinc concentrates, containing silver.

I was wondering if the Cymet Process would handle ore and/or concentrate similar to that shown on attached sheet. We have some 200,000 tons showing on 2½ sides, plus at least 10 times that amount available. Some of the material is disseminated, so a bulk flotation concentrate would have to be produced. It would assay pretty much the same as the massive sulphides shown.

If you feel the process would be applicable it would be appreciated if you would have the proper officials get in touch with me at their earliest convenience.

Very truly yours,


T. E. Arnold.

TEA/rtt

FILE No. 21793

CABLE ADDRESS: "ELDRICO"

HEAD OFFICE AND LABORATORIES:
633 HORNBY STREET
VANCOUVER 1, B.C.

PHONE TATLOW 1267

4-3

Certificate of Assay

G. S. ELDRIDGE & CO. LTD.

G. S. ELDRIDGE, B.Sc.
MEMBER OF
CHEMICAL INSTITUTE OF CANADA
CANADIAN INSTITUTE OF MINING AND
METALLURGY
AMERICAN SOCIETY FOR TESTING
MATERIALS
AMERICAN CHEMICAL SOCIETY
AMERICAN SOCIETY OF METALS

PROVINCIAL ASSAYERS, ANALYTICAL AND CONSULTING CHEMISTS
METALLURGICAL AND CEMENT INSPECTORS

We hereby Certify that the following are the results of assays made by us upon samples of ORE
herein described and received from (Mr. T. E. Arnold) March 2, 1957

MARKED	GOLD		SILVER		LEAD		ZINC		TOTAL VALUE PER TON (2000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT.	VALUE PER TON	PER CENT.	VALUE PER TON	
16502	0.40	14.00	6.7		5.30		13.20		Re-sampling of J&L Adit. Massive sulphides only. Samples taken 20 feet apart. Six Cubic Feet per ton. Copper-----0.37% Iron-----18.55% Cadmium-----0.13% Arsenic-----0.29% Insoluble-----10.85% Sulphur-----30.00% Antimony-----0.5% Tungsten-----Trace Bismuth-----Trace Tin-----Trace
16503	0.32	11.20	7.5		6.60		13.05		
16504	0.32	11.20	5.0		8.45		13.30		
16505	0.32	11.20	5.7		8.05		15.05		
16506	0.32	11.20	5.3		8.65		13.70		
16507	0.28	9.80	6.2		7.05		12.10		
16508	0.32	11.20	6.0		8.90		15.20		
16509	0.44	15.40	5.6		6.70		14.95		
16510	0.44	15.40	4.9		7.05		13.10		
16511	0.36	12.60	5.2		6.95		14.65		
16512	0.36	12.60	5.0		6.15		15.20		
16513	0.44	15.40	4.9		6.45		13.15		
16514	0.48	16.80	5.6		7.00		13.45		
ARITHMETIC AVERAGE		0.37	5.7		7.25		13.85		

3M-HP

Gold calculated at \$ 35.00—per ounce.

Silver calculated at _____per ounce.

Calculated at _____ cents per lb.

Calculated at _____ cents per lb.

Samples only retained 3 months unless otherwise specified.

R. H. McIntosh

Provincial Assayer

LAKEFIELD RESEARCH OF CANADA LIMITED
LAKEFIELD, ONTARIO
CANADA

Certificate of Analysis

Date: December 1, 1970

Received: November 10, 1970

From: J&L Creek Tunnel
(New Workings)

Our Reference No. 7019368

Samples submitted to us show results as follows:

Invoice No. 9066

Sample Number	% Cu	% Zn	% Pb	% As	% WO ₃	% Sb
JL No. 1	0.03	7.06	5.17	8.39	0.007	0.033
JL No. 2	0.03	4.09	2.25	6.81	0.007	0.023
JL No. 3	0.06	9.72	1.84	12.07	0.007	0.033
JL No. 4	0.07	6.29	4.06	5.26	0.008	0.031
JL No. 5	0.18	6.97	4.84	4.01	0.008	0.115
JL No. 6	0.03	0.10	0.07	0.25	0.008	0.005
JL No. 7	0.10	11.24	1.49	17.18	0.008	0.025
JL No. 8	0.18	10.66	9.79	1.32	0.006	0.071
JL No. 9	0.13	4.67	1.93	22.23	0.013	0.043
JL No. 10	0.19	8.56	8.52	1.58	0.006	0.124

Sample Number	Au oz/ton	Ag oz/ton
JL No. 1	0.320	2.86
JL No. 2	0.350	1.21
JL No. 3	0.290	1.33
JL No. 4	0.160	2.84
JL No. 5	0.160	3.99
JL No. 6	0.005	0.07
JL No. 7	0.480	0.88
JL No. 8	0.110	6.65
JL No. 9	0.890	2.11
JL No. 10	0.230	6.11

To: Mr. S. Siscoe (2)

SIGNED A.G. Scobie

A.G. Scobie, P. Eng.

Analysis and Assaying - Mineral Processing Research - Pilot Plant Investigations

Arithmetic Average

Cu-----0.110%

AS-----7.910%

Zn-----6.936%

WO₃-----0.0078%

Pb-----3.996%

AU-----0.2995 Oz/T

Sb-----0.0553%

Ag-----2.8050 Oz/T

T. E. ARNOLD

P. O. BOX 126
OAKHURST, N. J. 07755

March 30, 1973.

Mr. J. B. P. Sawyer,
Manager,
Cyprus Exploration Corp., Ltd.,
510 West Hastings Street,
Vancouver 1, B. C.

Dear Mr. Sawyer:

Some months ago I wrote your headquarters office for information covering your CYMET PROCESS, and very recently received a letter from your Mr. Eugene S. Allen suggesting you might be contacted to ascertain if the deposit mentioned would qualify for a CYMET plant.

The deposit is the old J & L Mine, Revelstoke, B. C. Several years ago it was brought to your attention, that is long before the CYMET process was developed. You should, therefore, have data on hand sufficient to make a preliminary decision. Briefly, at the moment there are some 100,000 tons showing on 2½ sides, plus 20 times that amount reasonably well assured.

As you are probably aware there have been two major problems associated with the deposit; (a) the ore is very fine grained arsenic bearing massive sulphide that has to be leached; (b) the vein developed is narrow. The grade is excellent, so somewhat compensates for the narrow vein.

My thought is a preliminary sink-float, possibly followed by bulk flotation of the disseminated material, would produce a product suitable for leaching. It has already been determined high-temperature leaching similar to that used for nickel-copper ores produces satisfactory results at reasonable cost. If you wish to look into that facet of the matter it is suggested you contact Mr. Roy Ellerman, of Wright Engineering, Vancouver. He participated in some work on J & L ore years ago, and wrote a report for Denver Equipment based on the results.

The old reports don't give the complete picture as they only describe the one narrow vein on which work was done. There are several similar veins that have never been explored. There is also the distinct possibility of a very large lower grade orebody or orebodies suitable for open pit operations. It has been this last possibility that has kept me interested over the years.

There is also one other feature worth mentioning. About a year ago a novel and very cheap method of oxidizing suspended sulphides was brought to my attention. This process does not require any specialized, and expensive equipment. Preliminary work has shown the procedure to be applicable. This could well change the complexion of the entire matter.

Mr. J.B.P. Sawyer,
Cyprus Exploration Corp.,
RE: CYMET Process & J&L.

-- 2 --

Mar. 30/73.

If you wish to proceed further please let me know. We are open to receiving suggestions to handle the development on an equitable basis.

Very truly yours,

T. E. Arnold.

P. S. There is now a tunnel at creek level about 650 feet long put in some years ago. It shows quite a bit of sulphide mineralization.

Mr. K. G. Sanders, of Dennison, recommended the property to them some time ago. We couldn't arrive at satisfactory terms. He could give you a quite a bit of informal information. If you wish to contact him you may mention such was done on my suggestion.

TEA/rtt.

TE Arnold

