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Cyprus Anvil Mining Corporation

1550 Alberni Street  
Vancouver, British Columbia  
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Telephone 604) 687-2586

Telex 04508594

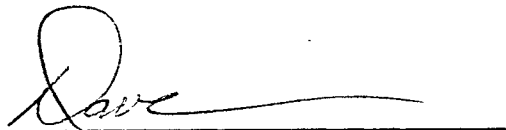
April 4, 1975

Mr. Leon LaPrairie,  
Managing Director,  
New Joburke Explorations,  
Suite 1102, 347 Bay Street,  
Toronto, Ontario.

Dear Leon:

Enclosed is a copy of the geochemical survey we ran over the Matt Berry property in 1974. Our itinerant geophysical consultant, now in Portugal, still has not submitted us a final report on the ground magnetic and gravimetric surveys also conducted. We expect this data in late April and will forward you a copy of that time.

Yours truly,



D. S. Jennings, Ph. D.

DSJ:JF  
Enc.

**CYPRUS**

Cyprus Anvil Mining Corporation

1550 Alberni Street  
Vancouver, British Columbia  
V6G 1A5  
Telephone 604) 687-2586

Telex 04508594

February 4, 1975

Mr. Peter E. Walcott,  
605 Rutland Court,  
Coquitlam, B.C.  
V3J 3T8

Dear Peter:

*file* → Pardon the unaccustomed formality! Just for the record,  
could we have a final copy of the ground mag and gravity survey  
you did for us on the Matt Berry property last summer? Sooner  
or later, the vendor is going to come knocking for something!

Thanks,

  
D. S. Jennings

DSJ:JF

**CYPRUS**

# Evaluation of Matt Berry Geophysical Surveys

Turam: (Sugil Assoc. June 1969 - Tom Baird)

Generally flat response suggestive of no conductive units. No relationship between Turam response and known mineralization or rock units.

Vertical Loop EM: (Kenting, Nov. 1970 - T.R. Dundas)

No conductive units picked out. No relation between known mineralization, rock units, & EM profiles even @ 1000 cps (2 lines only)

Apparent Chargeability: (Kenting, Nov, 1970)

IP identifies "Matt Zone". Shows finite (?) strike extent & does not suggest down-dip increase in size of mass. Possible problem of electrode separation & massive vs. dissemin. mineralization

Apparent Resistivity: (Kenting, Nov., 1970)

Broad resistivity low w/ sub-cropping trace of known sulfides

GMAQ: (Kenting, Nov, 1970)

(max  $\approx 4508$ )

Reasonably good coincidence of GMAQ highs w/ known subcropping trace of sulfides. Several other high zones, Broad magnetic low NE of subcropping sulfides. No federal AMAG

EM-16: (Matt Berry, Aug. 1968 - J.A. Wilcox)

W

EM-16 highs not coincident w/ trace of subcropping  
sulfides. May be graphitic zones in various gray & black phyllite  
units.

## Matt Berry Data

- ✓ 1) Turam survey  $1'' = 200'$
- ✓ 2) Vert Loop EM "
- ✓ 3) GMAG "
- ✓ 4) IP "
- ✓ 5) Geochem "
- 6) Camp & pits  $1'' = 100'$
- ✓ 7) 2600 level geol.  $1'' = 100'$
- ✓ 8) EM 16  $1'' = 200'$
- 9) Drill plan  $1'' = 40'$
- 10) " "  $1'' = 30'$
- 11) " "  $1'' = 100'$
- 12) " Results (DDC)  $1'' = 200'$

A.F.E. No.: \_\_\_\_\_  
1974 Budget

Title: Matt Berry Prospect  
Frances Lake Area  
Yukon Territory, Canada

Estimated  
Cost:

<u>Budget Title</u>	<u>Proposed 1974 Program</u>
Acquisition Costs	-
Salaries & Wages	-
Surveying & Mapping	-
Geophysics	\$ 15,000
Geochemistry	-
Outside Contract Services	-
Drilling Contingency	35,000
Excavation	-
Assaying & Sampling	-
Travel	-
Equipment	-
Miscellaneous	-
	<hr/>
Total	\$ 50,000

## Prospect

Description: The Matt Berry prospect is located on the east arm of Frances Lake, Y.T. (Figures 1 and 2). Access to the property can best be reached by float equipped aircraft from either Watson Lake or Ross River, Y.T. The Campbell Highway, an all weather gravel road, passes by the west arm of Frances Lake and boats could be used for access. In the winter time, equipment could probably be brought to the property on the lake ice.

Mineralization may have first been discovered in the area in 1887, and was then re-discovered in 1930. The property has been staked several times and also under option to various major mining companies. Cominco explored the property in 1943, Matt Berry Mines Ltd. (1966) optioned the property to Can. Nickel (INCO) and Metalgesellschaft in 1970 and 1971, and to Nordev Resources in 1972. New Joburke Explorations Ltd. now holds a 40% interest in Matt Berry Mines Ltd. and can increase its interest to 60% through exploration work. Note: Nordev Resources, Matt Berry and New Joburke have the same management team.

Mineralization on the property which is known from surface work and drilling to cover an area of 2100 feet by 600 feet (Figures 3 and 4), consists of galena, sphalerite, pyrite, minor chalcopyrite and jamesonite in a flat dipping structure up to 30 feet wide in Paleozoic phyllites and quartz chlorite schists. Drilling indicates that one to three mineralized zones occur in this 25 to 30 foot thick horizon. Fault offsets have produced an enechelon pattern to the mineralized zone. The most recent thinking is that this is strataform mineralization and not a vein structure. Matt Berry Mines holds 112 claims in the area and 52 of these, the Don group, have an expiry date of April 29, 1974 and the others are in good standing to January 7, 1975 (Figure 2). Any agreement with New Joburke will not include the Don claims as they will be lapsed in 1974. The Don group of claims is located to the north of the known mineralization and was probably staked to cover potential northwest strike extensions of mineralization.

The mineralized sections within this mineralized "unit" are reported as much as 30 feet thick, but in general the mineralization occurs in stringers less than two feet thick, averaging probably near 5 feet overall. Up to 7 stringers have been encountered in drilling and multiple stringers with more than 10 feet of waste are not uncommon. An underground mining method would be required for the known mineralization.

To date (June, 1974) geological mapping, geophysical surveys, surface trenching and 9,516 feet of diamond drilling have been completed on the property in 42 holes (Figure 4). This drilling has indicated 300,000 to 500,000 tons of reserves, with the most specific calculation quoted as 415,000 tons of mineralized material grading 4.3 oz./ton Ag, 9.1% Pb, 6.3% Zn and 0.4% Sb. The drilling to date has tested the up dip portion of mineralization with the deepest hole at 503 feet. Deep drill holes, testing the down dip continuity of mineralization, appear to have been stopped short of the mineralized zones on basis of geometric considerations.

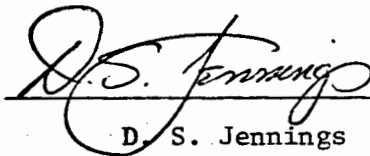
Geophysical work to date includes an I-P survey (Figure 4), E-M-16 and Turam electromagnetic surveys, and a ground magnetometer survey. Of the above geophysical methods only the I-P survey was useful in detecting the known zones of mineralization down to depths of 200 feet.


Proposed Programs:

An agreement is to be signed with New Joburke Explorations Ltd. and Matt Berry Mines Ltd. allowing Anvil to gain 60% control of the property through work commitments and the option to purchase an additional 10% for 70% control of the property. A gravity survey is proposed for 1974 to test possible down-dip and along strike mass concentrations of sulfides. Follow-up drilling would be required to test anomalous gravity responses if discovered. A positive gravity anomaly in the down-dip or along strike direction would indicate a significant mass concentration since the presently known, subeconomic, near surface mineralization would not give an anomalous response because of its thickness (5 to 30 feet) at depths greater than 200 feet. Absence of an anomalous gravity response would preclude follow-up drilling.

A 10 line mile gravity survey is proposed as an initial test for massive sulfide mineralization down-dip and along strike from the sulfides intercepted in previous drilling.

Justification: The Matt Berry property covers a strataform, stratabound massive lead/zinc sulfide deposit of good grade but presently uneconomic dimensions (2100' x 600' x 30'). The proposed gravity survey will cover previously untested rock volumes (below the level of penetration of previous geophysical and drilling surveys) in an attempt to define a drilling target of economic dimensions. The Matt Berry deposit is geologically similar to the Swim and Vangorda deposits and may be of similar subsurface dimensions and tonnages (5-20 x 10<sup>6</sup> tons), but with better grade (15% combined Pb/Zn). The location of the deposit (about 16 land miles north-east of the closest point on the Campbell Highway) is attractive for development.

  
\_\_\_\_\_  
D. S. Jennings

  
\_\_\_\_\_  
Date

\_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_

\_\_\_\_\_  
Date



Location Map: Matt Berry Prospect (NTS 105 H-6)

Figure I

NEW JOBURKE  
EXPLORATIONS LIMITED  
CLAIM PLAN  
FRANCES LAKE AREA  
YUKON TERRITORY

Sept. 15 / 73



East  
Arm  
of  
FRANCES  
LAKES

DON 1-52 (Lapsed May 13, 1974)

FRANCES 15-28

BERRY 1-8,  
15-20, 25-30

MATT 1-8

THOMPSON CREEK ZONE

JIM 1-4

FRANCES 1-14

A. N.

61°30'

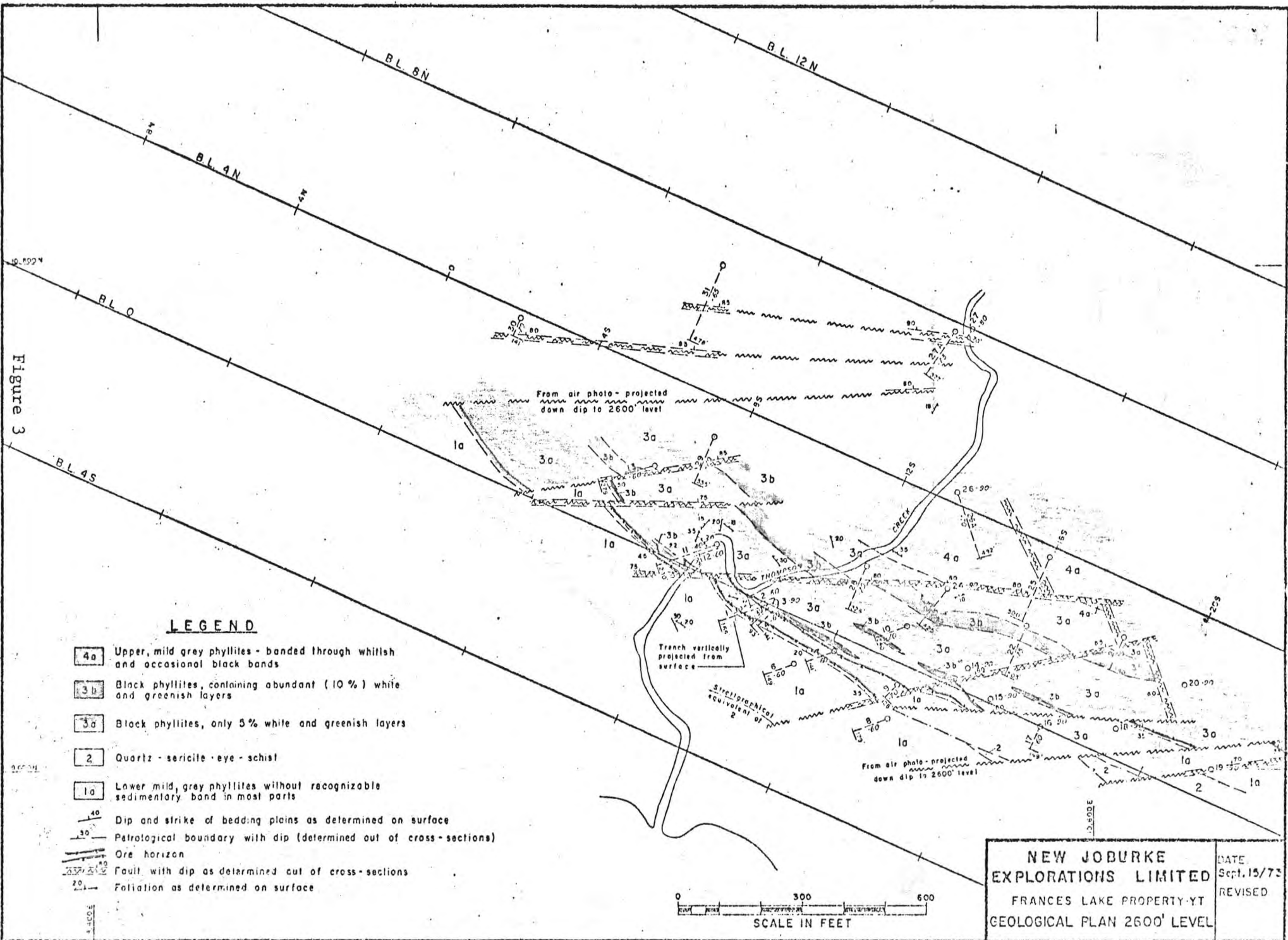


Area covered by proposed New Joburke-Matt Berry-Anvil agreement.

129°30'

Figure 2

Figure 3



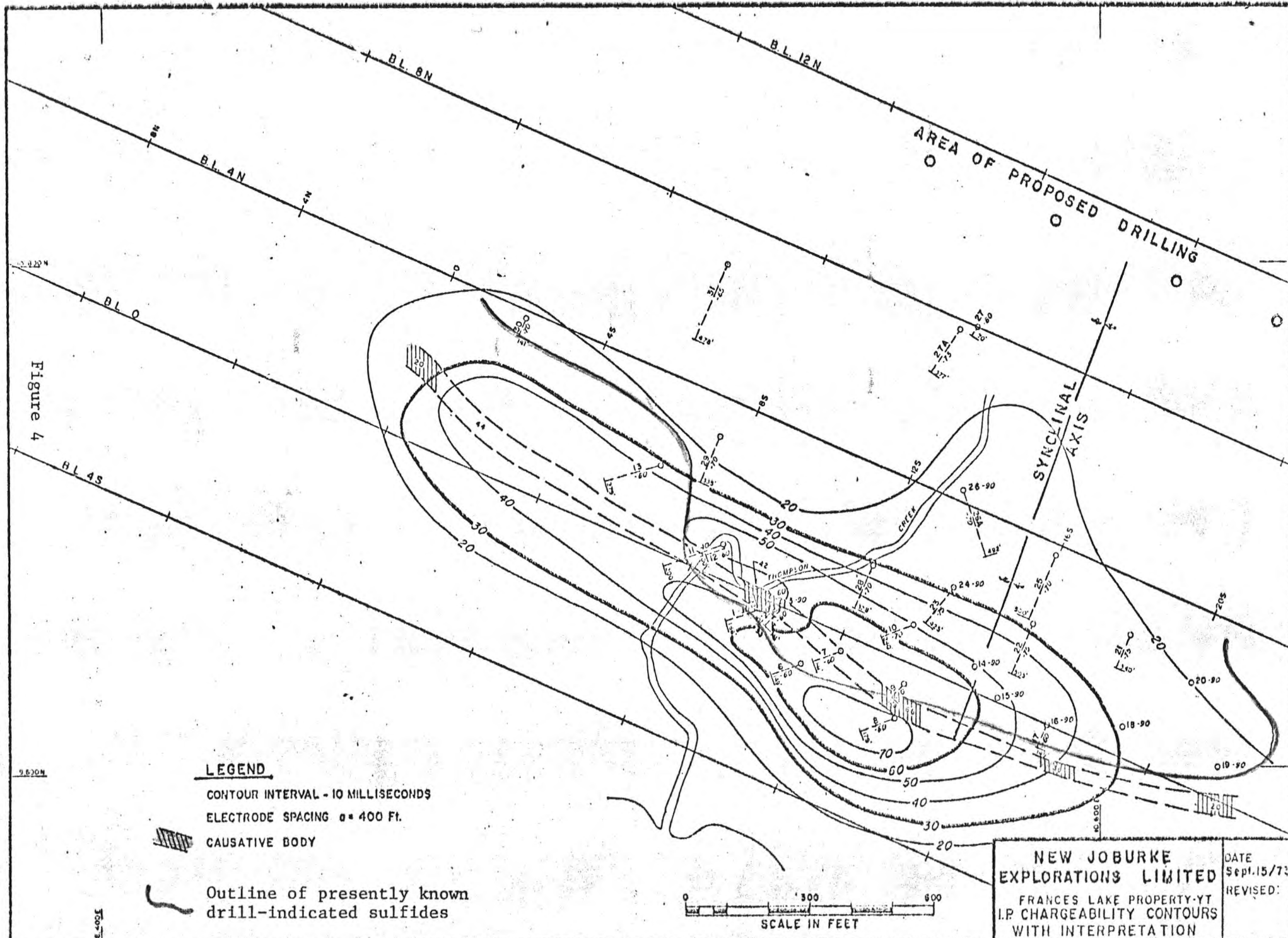
**LEGEND**

- 4a Upper, mild grey phyllites - banded through whitish and occasional black bands
- 3b Black phyllites, containing abundant (10%) white and greenish layers
- 3a Black phyllites, only 5% white and greenish layers
- 2 Quartz - sericite - eye - schist
- 1a Lower mild, grey phyllites without recognizable sedimentary band in most parts
- $\frac{40}{30}$  Dip and strike of bedding planes as determined on surface
- $\frac{30}{30}$  Petrological boundary with dip (determined out of cross-sections)
- $\frac{30}{30}$  Ore horizon
- $\frac{30}{30}$  Fault with dip as determined out of cross-sections
- $\frac{20}{20}$  Foliation as determined on surface

<b>NEW JOBURKE EXPLORATIONS LIMITED</b> FRANCES LAKE PROPERTY-YT GEOLOGICAL PLAN 2600' LEVEL		DATE Sept. 15/73 REVISED
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0 300 600  
SCALE IN FEET

Figure 4



**LEGEND**

CONTOUR INTERVAL - 10 MILLISECONDS

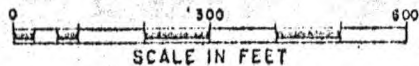
ELECTRODE SPACING  $a = 400$  FT.



CAUSATIVE BODY



Outline of presently known drill-indicated sulfides



**NEW JOBURKE EXPLORATIONS LIMITED**  
FRANCES LAKE PROPERTY-YT  
I.P. CHARGEABILITY CONTOURS WITH INTERPRETATION  
DATE Sept. 15/73  
REVISED:



Cyprus Anvil Mining Corporation

Post Office Box 1000  
Faro, Yukon Territory  
Y0B 1K0  
Telephone 403) 994-2600

Telex 036-8-208

August 9, 1974

New Joburke Explorations Ltd.  
Suite 1102, 347 Bay Street  
Toronto, Ontario

and

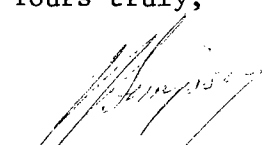
Matt Berry Mines Ltd.  
Suite 1102, 347 Bay Street  
Toronto, Ontario

Gentlemen:

Under the terms of the agreement between New Joburke Explorations Ltd., Matt Berry Mines Ltd., and Anvil Mining Corporation of July 11, 1974, we have carried out an exploration program comprising 7 miles of gravity survey, 10 miles of ground magnetometer survey and 10 miles of geochemical soil sampling on the Frances Lake property. The results obtained were generally negative and Anvil will not continue the option beyond August 15, 1974.

The results of these surveys will be made available to you in due course, and we thank you for the opportunity of examining the possibilities of the property.

Yours truly,



J. G. Simpson  
Exploration Manager

JGS/mm

**CYPRUS**

SUITE 1102 - 347 BAY STREET  
TORONTO 1, ONTARIO

Telephone:  
366-9251

July 8th. 1974

Mr. D. S. Jennings,  
Research Geologist,  
Anvil Mining Corporation Limited,  
P. O. Box 1000,  
Faro, Yukon Territory.

Dear Dave:

Your letter of June 24th. with draft agreement was awaiting my return to Toronto. I have been in the Beaverlodge area arranging the start of our Joint Venture in exploration for Uranium with Imperial Oil. The first project will be the drilling of the Crackingstone Mines claims adjoining the Gunnar Property.

In March when discussing the Frances Lake proposal the cost of the geophysical survey was not of concern to us and allowed you to carry out the work at minimum cost. Initially, we were asking a \$ 104,000 program and after discussion decided on the geophysical program performance with an option commitment to follow this work.

In paragraph 1.1 & 1.2 the cost of the geophysical survey I believe should be excluded. The period to spend the \$ 50,000 should be within reason and the expiry date of December 31st. could be extended to February 28th. 1975.

Also, when initially discussing the proposed agreement, the Don claims 1-10 and 27-36 were to expire May 28th. If the proposal had then been finalized the work assessment would have been sufficient to extend the standing of these claims. In the meantime, we have expended the monies to keep the claims in good standing. We would consider these claims as part of the agreement on a condition of a reimbursement of the assessment payment for 60% direct interest in the Don claims.

In a weeks time I am again on the move. Hope to be in Whitehorse this summer.

Yours truly,

MATT BERRY MINES LIMITED,



Leon La Prairie, P. Eng.,  
Managing Director.

LL/kf



March 26, 1974

Mr. Leon LaPrairie, P. Eng.  
Managing Director  
New Joburke Explorations Ltd.  
Suite 1102-347 Bay Street  
Toronto 1, Ontario

Dear Leon:

I have received and reviewed your copy of the Turam survey by Seigel Associates and the geophysical orientation survey by Kenting on the Frances Lake property. These are being sent back to you now.

Also, I have reviewed your draft copy of the agreement between Anvil and New Joburke Explorations. It appears to me that there will be a considerable number of changes required in this agreement. I have passed it on to R. L. Haffner with my comments for his review and comments. When he returns the agreement, I will get in touch with you regarding changes we would like to see before we go ahead with any work.

Sincerely,

U. Jansons  
Chief Exploration Geologist

UJ/mm

Enc.