

3860

ACANO EXPLORATIONS LTD. (N.P.L.)

GEOLOGICAL & GEOCHEMICAL SURVEY

FOX CLAIM GROUP

Omineca Mining Division

Latitude 55°50' N
Longitude 125°20' W

NTS 93 N / 14 W

by

D. Johnson, B. Sc.

Andrew E. Nevin, P. Eng.

on work performed July 27 - August 18, 1972

FOX 1 GROUP: FOX 1 - 20, 45 FR - 47 FR CLAIMS

FOX 2 GROUP: FOX 21 - 41, 43 FR - 44 FR CLAIMS

October 2, 1972

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3860 MAP _____

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INTRODUCTION

The following report is based on geochemical and geological work conducted from July 27 - August 18, 1972 on the Fox group of mineral claims. Work was done on behalf of Mr. E.A.W. Calvert and Acano Explorations Ltd. by personnel of W. Meyer & Associates Ltd. under the direction of Andrew E. Nevin, Ph. D., P. Eng. The crew consisted of four soil samplers/linecutters and a geologist.

LOCATION AND ACCESS

The property is located about 25 miles northwest of the settlement of Germansen Landing, centered around Latitude 55°50' north, Longitude 125°20' west. The access road to the nearby Lorraine property crosses Duckling Creek about two and one-half miles downstream of the claims, from which point an old foot trail can be followed northward up Duckling Creek to the property.

CLAIMS

The original Fox group consists of 42 full size and 2 fractional claims, recorded September 8, 1971. The existence of 3 internal fractions within the group was discovered during the work on the claims. These were staked as Fox 45 Fr., Fox 46 Fr. and Fox 47 Fr., and recorded August 28, 1972 in Vancouver.

EXPLORATION HISTORY

During the past two or three years the Duckling Creek area has been the centre of intensive exploration programs by many major companies. Two of the more notable prospects are Granby's Lorraine, which lies three and one-half miles west of the Fox, and the Rondah prospect (currently being worked by Cominco) immediately east of the Fox.

GEOLOGY

The Fox claims lie within the eastern flank of the elongate Hogem batholith, about one and one-half miles west of the contact with the Takla Volcanic rocks. The Hogem batholith consists largely of diorite and monzonite, into which has been intruded the multi-phase Duckling Creek syenite complex.

Outcrop on the property is limited mostly to the eastern portion of the claims, where two rocky ridges extend westward onto the property. These ridges were prospected and mapped in some detail.

The two major rock types exposed are diorite and monzonite. Minor amounts of syenite, as dikes and irregular lenses, are present.

Lithology

Diorite

The diorite is generally coarse grained. Mafic content is high, about 40 - 50%, much of which is epidote, with some hornblende and biotite. Some of the biotite is apparently secondary, as it displays relic crystal structures characteristic of plagioclase. Magnetite is present in varying amounts, with some specimens having inclusions of massive magnetite nearly one-half inch in diameter.

Monzonite

The monzonite is much finer grained than the diorite, and occasionally is slightly foliated. Content of mafic minerals and magnetite are less, possibly 35 - 40% total. Some greenish microcline was observed, and was one of the few certain determining characteristics of the monzonite. A petrographic study would be needed to make reliable determinations of rock types.

Syenite

The syenite consists largely of orthoclase, and is distinctly pink. Mafic content is much lower than in the other rocks, and magnetite is almost completely absent. Grain size varies widely, from a fine sugary texture in dikes to an almost porphyritic, coarse grained variety in larger masses.

Dikes of both andesite and feldspar porphyry were observed, but in nearly insignificant quantities.

Mineralization

Although all outcrops observed were well fractured, local variation was constant. Malachite and pyrite are plentiful, with some chalcopyrite and bornite. Grab samples were selected and assayed. Sample locations are marked "1" and "2" on the geology map (Fig. 3). Results are given below:

<u>Sample No.</u>	<u>Cu (%)</u>
1	1.38
2	1.55

Fracturing is abundant, with some feldspar fracture filling, syenite dikelets, and potash feldspar enrichment of the host rock. The presence of syenite and potash feldspar enriched zones appears to be a key to mineralization on both the Lorraine and Rondah properties.

GEOCHEMISTRY

A total of 762 soil samples were collected at 200 foot intervals along grid lines 400 feet apart. Using one of the three claim lines as a base-line, 149,000 feet (28 miles) of cross lines were compassed, chained, blazed and flagged, simultaneously with collection of samples. Samples were collected with spades and mattocks, from the "B" horizon, at depths of from a few inches to about one and one-half feet. Kraft paper envelopes were used as sample containers.

Samples were shipped to Acme Analytical Laboratories in Burnaby for analysis for Cu and Mo. Samples were dried and screened to -80 mesh. A portion was weighed out, digested in concentrated nitric and perchloric acids and analyzed by atomic absorption. The results are plotted (Fig. 2) and Cu values contoured at 100 ppm intervals.

Three main anomalous zones, each with two or more values in excess of 500 ppm Cu are evident. These zones trend roughly east-west and are described as follows:

"A" - 500 feet long by 100 feet wide with Cu values to 1100 ppm. Grid location 48E-8S to 52E-6S

"B" - 700 feet long by 200 feet wide with Cu values to 1100 ppm. Grid location 60E-8S to 64E-8S

"C" - 800 feet long by 100 feet wide. Values as high as 700 ppm Cu. Grid location 72E-16S to 80E-12S

In the same part of the property as zones "A", "B" and "C" there are four other single samples in excess of 500 ppm Cu.

Molybdenum values range from 1 to 63 ppm but are quite erratic and were not contoured.

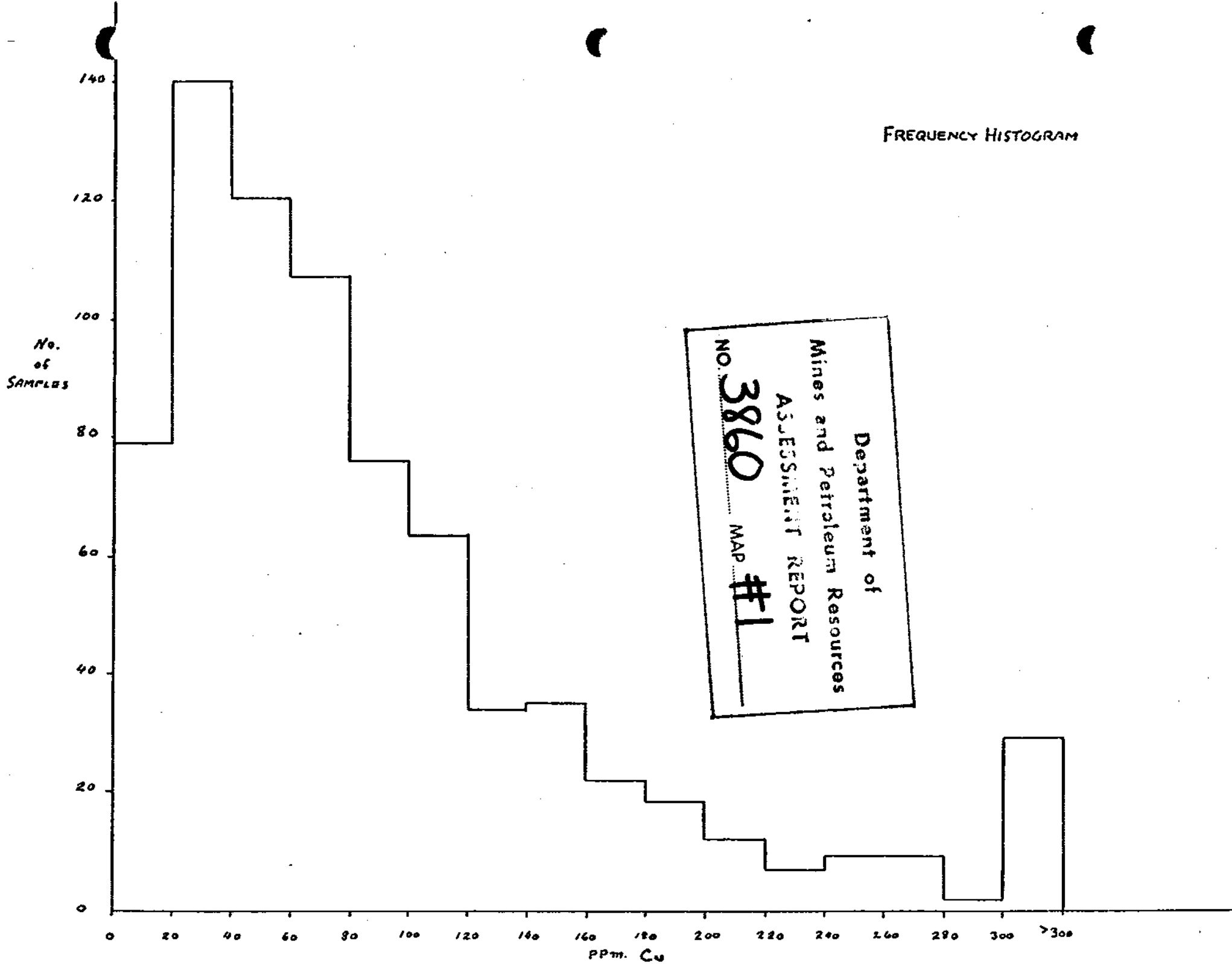
SUMMARY AND CONCLUSIONS

During the period from July 27 - August 18, 1972, geological and geochemical surveys were conducted in the Fox claim group.

The geochemical survey showed an elongate anomalous zone with copper values as high as 1500 ppm. Several other smaller geochemical highs were noted.

Near the southeast corner of the property, two copper occurrences were discovered. The exact extent of these are unknown as they are partially covered by overburden and talus.

FREQUENCY HISTOGRAM





CORE LABORATORIES - CANADA LTD.

325 HOWE STREET - VANCOUVER 1, B.C.

TELEPHONE 688-3504



CERTIFICATE OF ANALYSIS

REPORT NO.

546

ASSAYERS
CHEMISTS
GEOCHEMISTS

SAMPLE(S) FROM

MR. MEYERS

SAMPLE(S) OF

Rock

<u>SAMPLE NO.</u>	<u>Cu %</u>
1	1.38
2	1.55

DATE

September 6, 1972

SIGNED

CLAIMS

<u>Claim</u>	<u>Record No.</u>	<u>Expiry Date</u>	<u>Title</u>
FOX 1 - 20	103306 - 103325	8 Sept., 1972	Acano Explorations Ltd. (N.P.L.)
FOX 21 - 44 Fr.	103326 - 103349	"	"
FOX 45 Fr.	Tag No. 228321M	28 Aug., 1972	"
FOX 46 Fr.	Tag No. 228322M	"	"
FOX 47 Fr.	Tag No. 228323M	"	"

PERSONNEL AND DATES

<u>Name & Address</u>	<u>Position</u>	<u>Dates</u>	<u>No. of Days</u>
D. Johnson 550 Hamilton Ave. Nanaimo, B. C.	Geologist	July 27 - Aug. 18, 1972	22
G. D. Ulrich 1015 - 470 Granville St. Vancouver, B. C.	Geologist	" "	1½
J. Bacon 1015 - 470 Granville St. Vancouver, B. C.	Sampler	" "	22
R. Schneider 1015 - 470 Granville St. Vancouver, B. C.	Sampler	" "	22
R. Fassler 1015 - 470 Granville St. Vancouver, B. C.	Sampler	" "	22
D. Stevenson 1015 - 470 Granville St. Vancouver, B. C.	Sampler	" "	22

**ANDREW E. NEVIN CONSULTANTS LTD.
428-470 GRANVILLE ST.
VANCOUVER 8, B.C.**

(604) 683-3428

October 2, 1972

INVOICE No. 76

Acano Explorations Ltd.
546 Howe St.,
Vancouver 1, B. C.

RE: FOX CLAIMS

A. E. Nevin (4 days) \$ 600.00

W. Meyer & Associates Ltd.:

Geochemical survey (including 28
miles line cutting & assaying) 7,420.00

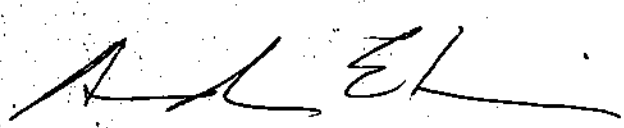
Geological survey (including claim
search & staking) 1,820.00

9,840.00

ADVANCE to W. Meyer & Associates Ltd. 4,000.00

TOTAL (net) \$ 5,840.00

Declared before me at the *City*
of *Manitoba*, in the
Province of British Columbia, this *3rd*
day of *October* 1972, A.D.



Y.P. Phillips
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

Sub-mining Recorder

AFFIDAVIT RE COST OF SURVEY

I, Andrew E. Nevin, of 962 Montroyal Blvd. in the City of North Vancouver in the Province of British Columbia, DO SOLEMNLY DECLARE that the geological and geochemical survey of the Fox claims property of Acano Explorations Ltd. (N.P.L.) was conducted during the field season of 1972 and is described in this report. The data was obtained by consultants to Acano Explorations Ltd. (N.P.L.) at a cost of \$7,280.00 (geochemical) and \$1,820.00 (geological), making a total property related cost of \$9,100.00.

AND I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act".

DECLARED before me at the
City of Vancouver, in the
Province of British Columbia,
this 3rd day of
October, A. D. 1972


Andrew E. Nevin


Sub-mining Recorder

CERTIFICATE

I, Andrew E. Nevin, hereby certify that:

1. My residence address is 962 Montroyal Blvd., North Vancouver, B. C., my office address is 426 - 470 Granville Street, Vancouver 2, B. C., and I am a Geologist by occupation.
2. I hold a B. Sc. in Geophysics from St. Lawrence University, a M. A. in Geology from University of California, Berkeley, a Ph. D. in Geology from University of Idaho. I have been practicing my profession since 1961, and I am a member of the Association of Professional Engineers (Geological) of the Province of British Columbia.
3. I personally examined the FOX claims, conducted on August 18, 19, 25 - 27, 1971, and supervised the work conducted during 1972 and described herein.
4. I hold no direct or indirect interest in either the FOX claims or the securities of Acano Explorations Ltd. (N.P.L.), nor do I expect to receive any.

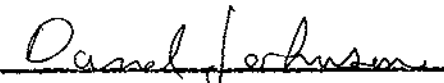

Andrew E. Nevin, Ph.D., P. Eng.

October 2, 1972

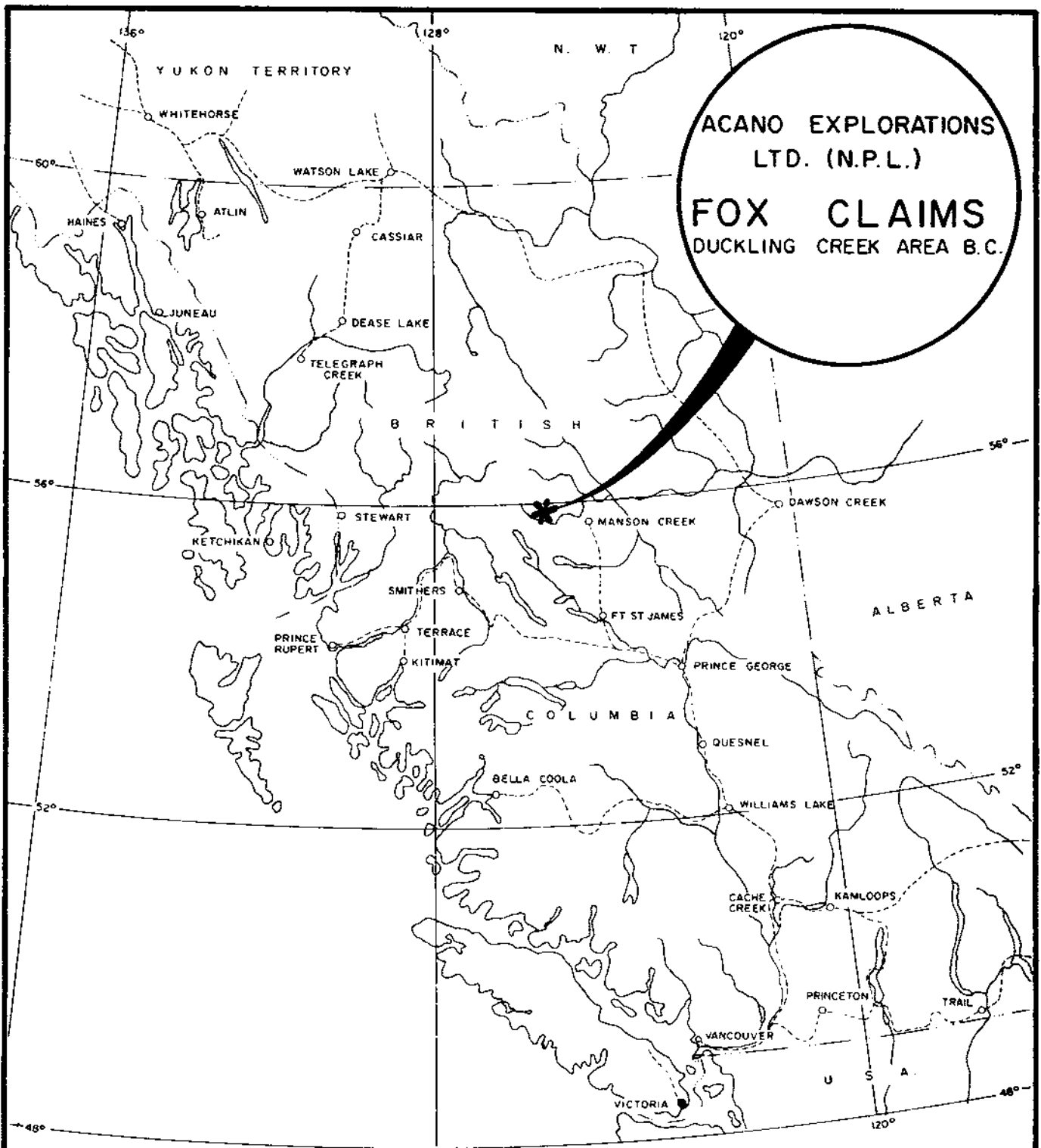
CERTIFICATE

I, Farrel Johnson, do hereby certify that:

1. I am a geologist with residence at 550 Hamilton Avenue, Nanaimo, B.C.
2. I am a graduate of the University of British Columbia (B.Sc. 1970, Geology).
3. I have been employed by W. Meyer and Associates from July 15, 1972 to present.
4. I personally conducted the geological mapping and supervised the geochemical survey described by this report.



F. Johnson



ACANO EXPLORATIONS LTD. (N.P.L.)
FOX CLAIMS
 DUCKLING CREEK AREA B.C.

3860 M-2

ACANO EXPLORATIONS LTD. (N.P.L.)
FOX CLAIMS
 PROPERTY LOCATION MAP



BRITISH COLUMBIA
 SCALE : 1" = 125 MILES

Fig. 1

Department of
Mines and Petroleum Resources
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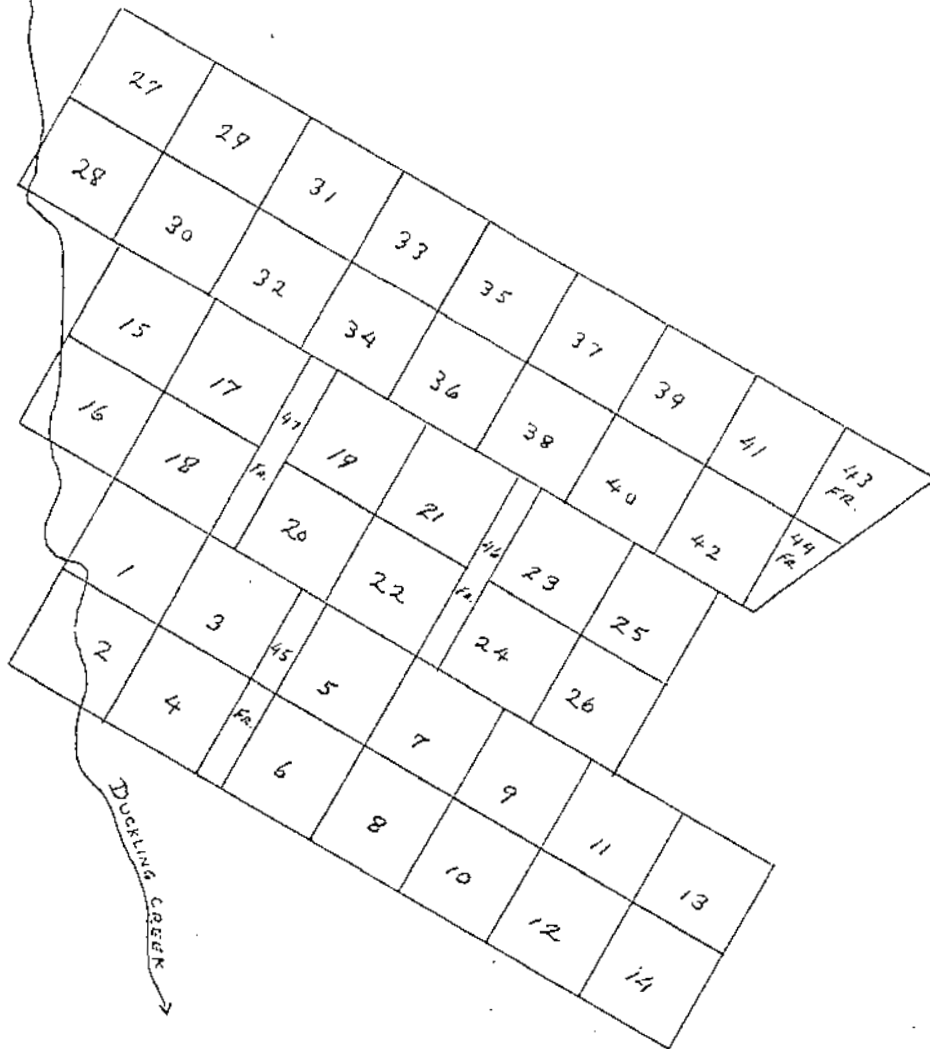
Department of
Mines and Petroleum Resources

ASSESSMENT REPORT

NO. **3860** MAP. **#3**



1" = 1/2 MILE



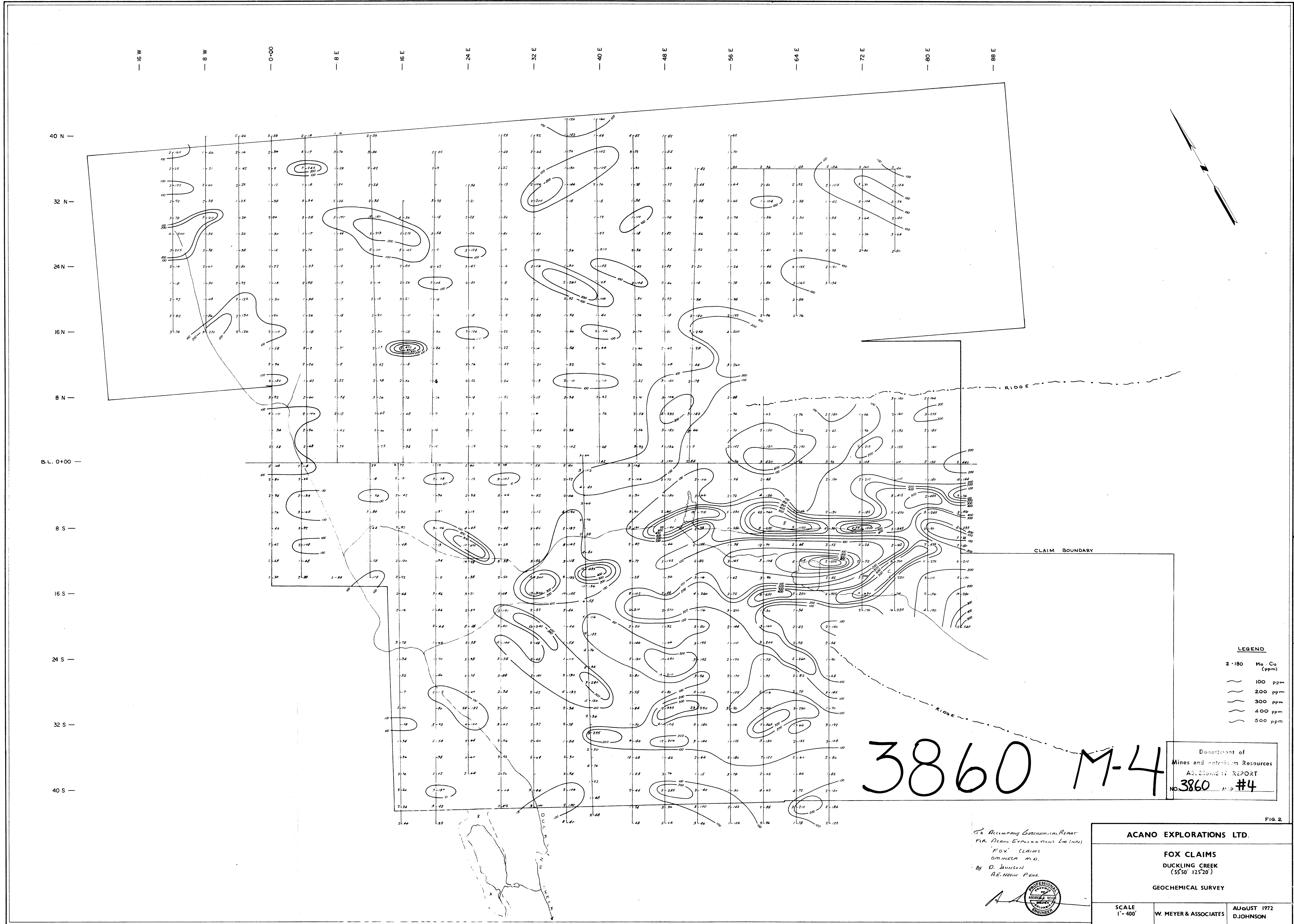
AGANO EXPLORATIONS LTD. NPL

FOX CLAIMS

CLAIM MAP

OMINECA M.D.





LEGEND

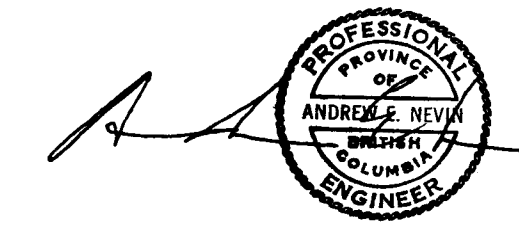
- 2180 Mo, Cu (ppm)
- 100 ppm
- 200 ppm
- 300 ppm
- 400 ppm
- 500 ppm

3860 M-4

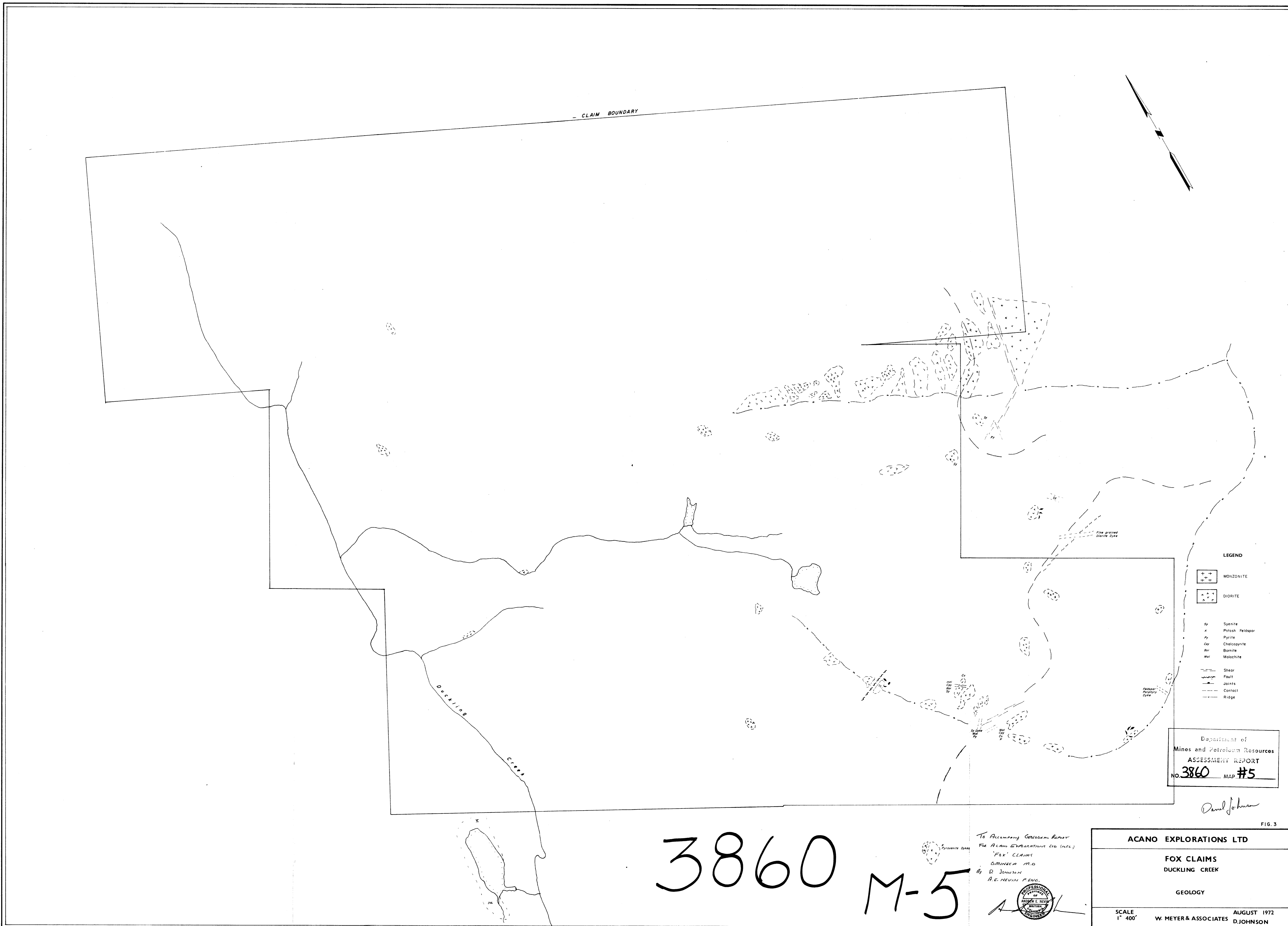
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
No. 3860 M.P. #4

FIG. 2

See Accompanying GEOCHEMICAL REPORT
FOR ACANO EXPLORATIONS LTD (MPL)
FOX CLAIMS
OMINECA M.D.
By D. JENNISON
A.E. NEVIN P.E.N.G.



ACANO EXPLORATIONS LTD.		
FOX CLAIMS DUCKLING CREEK (55°50' 125°20')		
GEOCHEMICAL SURVEY		
SCALE 1" = 400'	W. MEYER & ASSOCIATES	AUGUST 1972 D. JOHNSON



LEGEND

- MONZONITE
- DIORITE
- Sy* Syenite
- Pfs* Potash Feldspar
- Py* Pyrite
- Chc* Chalcopryite
- Bor* Bornite
- Mal* Malachite
- Shear
- Fault
- Joints
- Contact
- Ridge

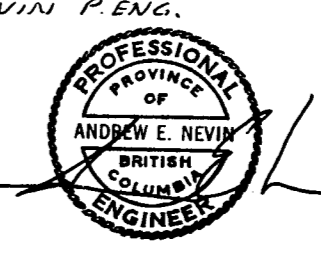
Department of
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ASSESSMENT REPORT
NO. 3860 MAP #5

Daniel Johnson

FIG. 3

3860 M-5

To Accompany Certificate Report
For ACANO EXPLORATIONS LTD. (INC.)
"FOX" CLAIMS
D. JOHNSON M.D.
By D. JOHNSON
P.E. NEVIN P. ENG.



ACANO EXPLORATIONS LTD	
FOX CLAIMS DUCKLING CREEK	
GEOLOGY	
SCALE 1" = 400'	AUGUST 1972 W. MEYER & ASSOCIATES D. JOHNSON