

GEOLOGICAL REPORT

BEAR 1, 2 CLAIMS - RECORD NO. Y84416-7

WATSON LAKE M.D. - CLAIMSHEET 105 H 9

Lat. 61,36.5 N - Long. 128,22.5W

for:

DELPHI RESOURCES LTD.  
2203 - 1160 Haro St.  
Vancouver, B.C.



by:

BARRY J. PRICE, M.Sc.  
2121 W. 5th Ave.  
Vancouver, B.C.

Work done: Sept. 10, 1978



090599

GEOLOGICAL REPORT

BEAR I. 2 CLAIMS - RECORD NO. 124418-7

WATSON LAKE M.D. - CLAIMSHEET 105 H

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ 200.00

J A Mouin

Resident Geologist or  
Resident Mining Engineer

Considered as representation work under  
Section 53 (4) Yukon Quartz Mining Act

B. R. BAXTER  
Supervising Mining Recorder

4 Commissioner of Yukon Territory

by:

BARRY J. BRICE, M.Sc.

2121 W. 5th Ave.

Vancouver, B.C.

Work done: Sept. 19, 1958



0-1-1959



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

Yukon Quartz Mining Act

APPLICATION TO GROUP MINERAL CLAIMS

MINING DISTRICT

OFFICE DATE STAMP

I (WE) THE UNDERSIGNED OWNER(S) OR AGENT(S) OF THE OWNER(S) OF THE FOLLOWING MINERAL CLAIMS

GRANT NUMBER(S)	CLAIM NAME(S)	LOCATION	CLAIM SHEET NO.
Y 84417	Bear 1	Hyland River	105-H-9
Y 84416	Bear 2	"	"

GIVE NOTICE OF INTENTION TO GROUP THE SAID CLAIMS FOR THE PERFORMANCE OF WORK AND DO HEREBY APPLY UNDER THE PROVISIONS OF SECTION 52 OF THE YUKON QUARTZ MINING ACT FOR A CERTIFICATE IN FORM "E"

I (WE) HEREBY CERTIFY THAT THE ABOVE CLAIMS ARE ADJOINING AS SHOWN ON ATTACHED SKETCH

DATED AT Vancouver BC

THIS 5 DAY OF July 1979

Barry Price  
Barry Price, M.Sc.  
Agent for A. Black.

OWNER(S) SIGNATURE

FOR OFFICE USE ONLY

FORM "E" NO.

RECEIPT NO.

DATE APPLIED.



Department of Indian Affairs and Northern Development  
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

I (Name)	BARRY PRICE	Occupation	GEOLOGIST
(Postal Address)	2121 W. 5 <sup>th</sup> Ave. Vancouver. B.C.		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

- I am the owner or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

BEAR 1 Rec. No. Y84417

situated at HYLAND RIVER Claim Sheet No. 105-H-9  
in the WATSON LAKE Mining District, to the value of at least \$ 800.00  
dollars, since the 8<sup>th</sup> day of September 19 78

to represent the following mineral claims under the authority of Grouping Certificate No. \_\_\_\_\_  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

Bear 1 Y84417  
Bear 2 Y84416

- The following is a detailed statement of such work (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Sampling of mineralized outcrop, assay of samples and preparation of brief report.  
Mobilization from Whitehorse Sept 8, 1978  
Flight via helicopter to sample Sept 10, 1978  
Preparation of report. July 4, 1979.  
Itemized cost statement attached.

Sworn before me at Vancouver British Columbia  
this 5<sup>th</sup> day of JULY 1979

Brian E. Abraham  
Notary Public FOR TEL

**BRIAN E. ABRAHAM**  
Barrister & Solicitor  
1466 - 409 GRANVILLE STREET  
VANCOUVER, B.C. V6C 1T2  
684-1381

Barry Price  
Applicant.

## Table of Contents

Location and access; claims; geology . . . . .	P. 1
Property Geology . . . . .	P. 2
Conclusions and recommendations . . . . .	P. 3

## List of Figures

- Figure 1 - Location Map - Hyland River - Tungsten area
- Figure 2 - Claim map, Bear 1,2 claims - Mapsheet 105 - H
- Figure 3 - Regional Geology - Bear Claims area

GEOLOGICAL REPORT - BEAR 1, 2 CLAIMS  
WATSON LAKE M.D., MAPSHEET 105H

LOCATION AND ACCESS: (Figure 1.)

The claims are situated in Frances Lake mapsheet, 105H, 106 miles north north-east of Watson Lake, Y.T. and 25.5 miles south south-west of Tungsten, N.W.T. The claims are 2 miles west of the "CanTung" road and 1 mile west of the Hyland River, north of the junction with Anderson Pass creek.

The showings occur on the south bank of a small creek, at approximately 4000 feet elevation.

Easiest access to the claims is by helicopter from Watson Lake, (1 hr.) or from Tungsten (20 min.). Otherwise a 2 mile hike from the road involves crossing the Hyland River and climbing 1000 feet from the valley floor.

CLAIMS: (Figure 2.)

Two claims, Bear 1 and Bear 2, (record no's. Y84417 and Y84416 respectively) are owned by A.Black, Watson Lake,

GEOLOGY: (Table 1, Figures 3, 4).

The section of the Logan Mountains between Anderson Lake and Hyland River is underlain by Proterozoic clastic sedimentary rocks, phyllites and limestones of "Unit 1" (Map 6-1966, G.S.C.), schists and gneisses with aplitic and pegmatitic intrusive phases, and marble of probable Proterozoic age (Unit 2), and by granitoid intrusive stocks of probable Cretaceous age (Unit 15). Limy units are often recrystallized or skarnified, and bedding strikes north-westerly, with north-east dip. East of the CanTung road, Cambrian and Ordovician sedimentary rocks are folded and intruded by small granitoid stocks (also unit 15).

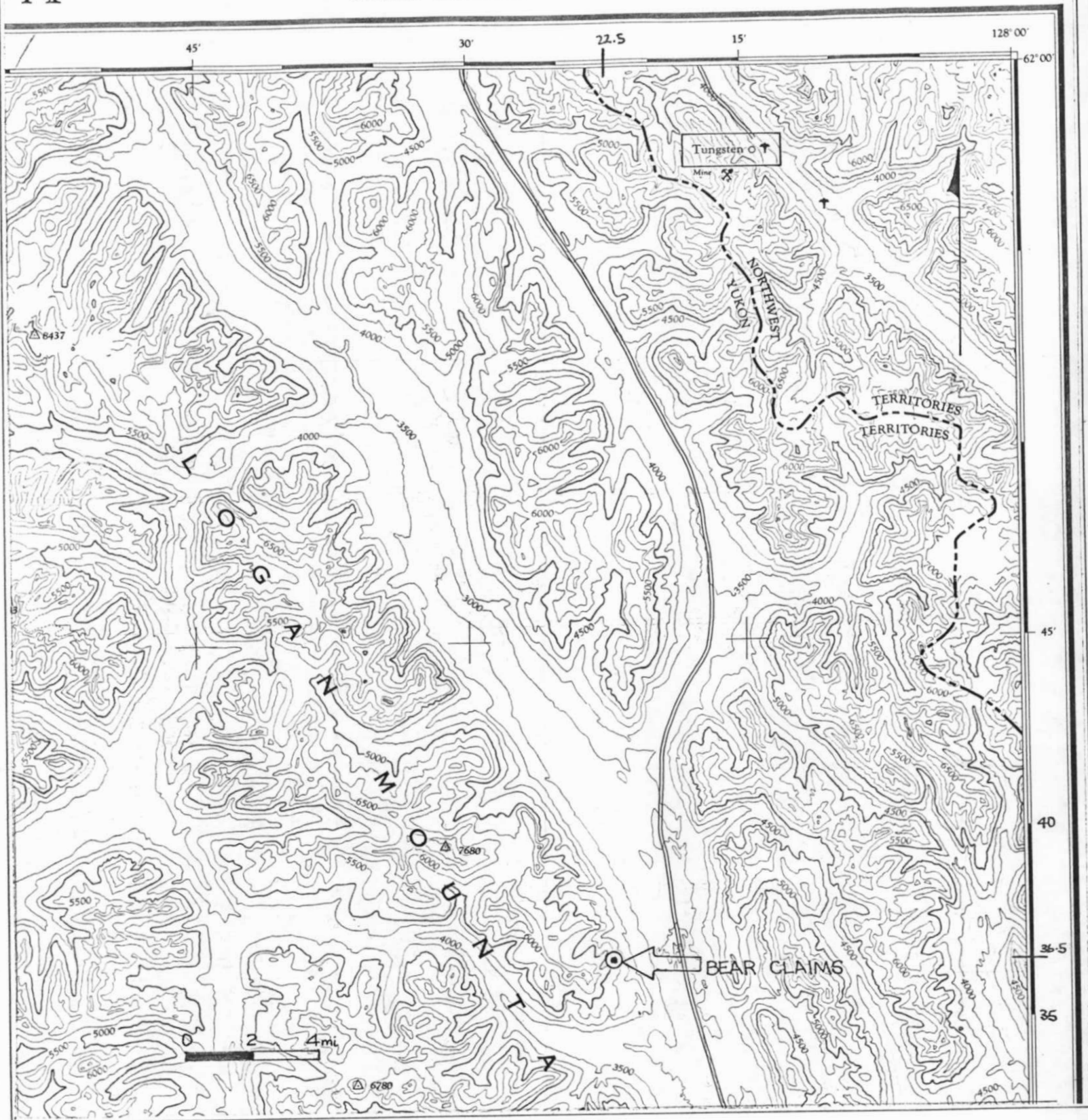


Figure 1  
Location Map

Hyland River - Tungsten area

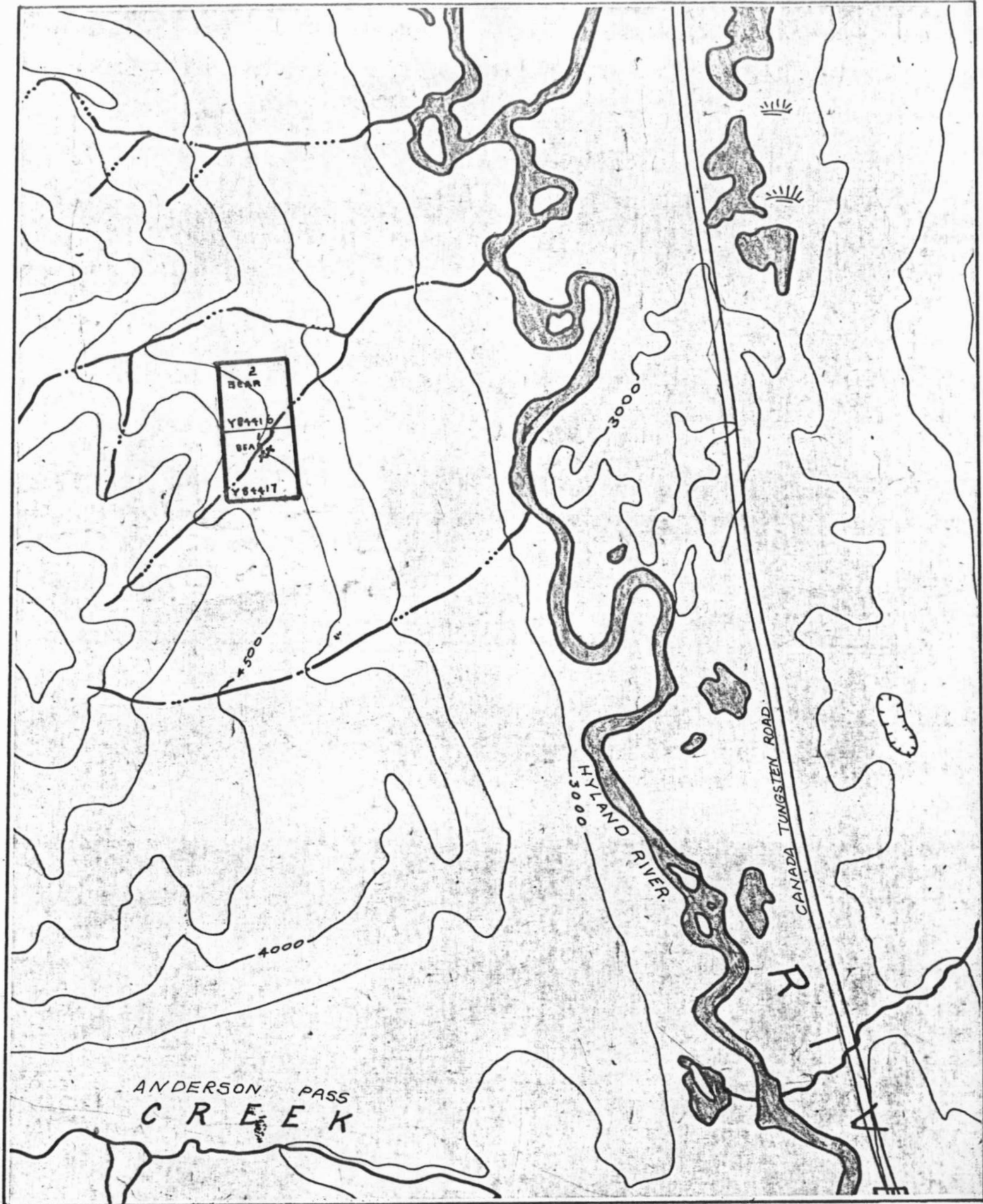


Figure 2  
Claim map, Bear 1, 2 claims  
Mapsheet 105 - H

Numerous skarn hosted lead-zinc and tungsten deposits are present in the area. The tungsten deposit at Tungsten, N.W.T. is the largest tungsten producer in North America.

PROPERTY GEOLOGY: (Figure 4.)

On Bear 1 claim, complexly interbedded phyllites and re-crystallized limestone are intruded by granodiorite or diorite sills and converted in places to skarn. One skarn band, on the south side of the small creek, and a short distance above it, is strongly mineralized with pyrite, pyrrhotite, sphalerite and galena. The lens is very rusty, and is visible from a distance.

Bedding at the showing strikes 115 degrees and dips 75 degrees south westerly (opposite to regional dip). The mineralized lens, approximately 50 feet long by up to 10 feet wide, may represent the crest of an isoclinal fold.

The lens was sampled as shown on the accompanying sketch. Results indicate that the best mineralization averages between 5 and 10% combined lead-zinc over 4-5 feet, with ½ oz. to 2 oz. silver per ton and negligible gold. Over wider intervals, values are lower (1-4% combined Pb-Zn, with less than ½ oz./ton silver). Wall-rock skarn contains small amounts of sphalerite and galena. No scheelite was seen in the samples.

Assays are listed in the appendix - four character (selected) samples taken by Mr. Black are included. These range from 8 to 12% combined Pb-Zn with generally less than ½ oz./ton silver.

Sampling was done by the winter on September 10, 1978. Assaying was done by Bondar-Clegg Ltd., May 1, 1979. Costs of property examination, assaying and preparation of this report were borne by Delphi Resources Ltd., 2203-1160 Haro St., Vancouver, B.C.

TABLE 1

STRATIGRAPHY - MAP 6-1966

LEGEND

MESOZOIC CENOZOIC	<b>QUATERNARY</b>	
	16	Unconsolidated glacial and alluvial deposits
	<b>CRETACEOUS (?)</b>	
	15	Fine- to medium-grained biotite-quartz monzonite, granodiorite, minor diorite and gneiss; 15a, fine- and medium-grained biotite hornblende quartz monzonite and granodiorite, in part porphyritic; 15b, hornblende syenite
	<b>DEVONIAN AND (?) MISSISSIPPIAN</b>	
	13	Brown and black shale, black and grey chert, quartzite, graywacke, chert-pebble conglomerate; 13a, fine-grained light grey limestone and minor dolomite; 13b, greenstone; 13c, serpentinite
	14	Rusty brown weathering fine-grained schistose and spotted biotite hornfels, fine-grained quartzite, black pyritic argillite, dense light green to grey calc-silicate hornfels and fine-grained marble; minor slate, silty limestone and greywacke; 14a, light grey thin-bedded fine-grained marble and calc-silicate hornfels. May include some 1 and 2
	<b>SILURIAN AND DEVONIAN (?)</b>	
	12	Fine-grained light to dark grey dolomite and quartzite; minor buff-grey dolomitic quartzite and silty to sandy dolomite
	<b>ORDOVICIAN AND SILURIAN</b>	
11	Black shale, slate; minor chert, siltstone, dark limestone	
PALAEOZOIC	<b>CAMBRIAN</b>	
	<b>MIDDLE AND LATE CAMBRIAN</b>	
	9	Light grey and brownish grey weathering, intercalated platy argillaceous silty limestone, siltstone, and fine-grained grey limestone
	10	Dark grey and brown silty shale and finely laminated siltstone, dark grey slate, thin-bedded brown-grey fine-grained sandstone; minor hornfels
	<b>EARLY AND/OR MIDDLE CAMBRIAN</b>	
	7	Buff-weathering dolomite, silty and sandy dolomite; minor sandstone and shale
	8	Dark brown-grey to black, in part pyritic, calcareous argillite, slate, shale, and minor thin-bedded argillaceous limestone
	6	Bright yellow and orange-weathering silty and sandy dolomite
	<b>EARLY CAMBRIAN</b>	
	5	Sandstone, buff-weathering sandy and silty dolomite, dolomite, minor quartzite and argillaceous limestone; basic volcanic flows
4	'Swiss-cheese' limestone, irregular interbedded dolomitic siltstone and argillaceous to silty limestones; beds and lenses of limestone; minor blue-grey fine-grained limestone and orange-weathering dolomite	
<b>CAMBRIAN AND/OR EARLIER</b>		
3	Brown to red-brown weathering slate, phyllite, siltstone and fine-grained quartzite; 3a, green-grey slate and phyllite	
PROTEROZOIC	1	Brown, grey, maroon and green shale; grey to green slate and phyllite, gritty feldspathic quartzite, quartz- and feldspar-pebble conglomerate, sandstone; 1a, minor limestone; 1b, light grey weathering, fine-grained grey limestones; 1c, mainly grey to green slate and phyllite; 1d, maroon and green shale and slate; 1e, mainly brown and grey shale and slate, minor maroon and green shale. 1d and 1e are probably equivalent and perhaps correlative with 1c
	2	Quartz-feldspar-mica gneiss and schist, granitoid gneiss, feldspathic and micaceous quartzite, biotite schist, minor marble and skarn; numerous small granitic bodies, aplite and pegmatite; 2a, fine- to coarse-grained marble
A	Highly altered, green to brown, megacrystic, coarse-grained biotite-quartz monzonite or granodiorite. Age uncertain	

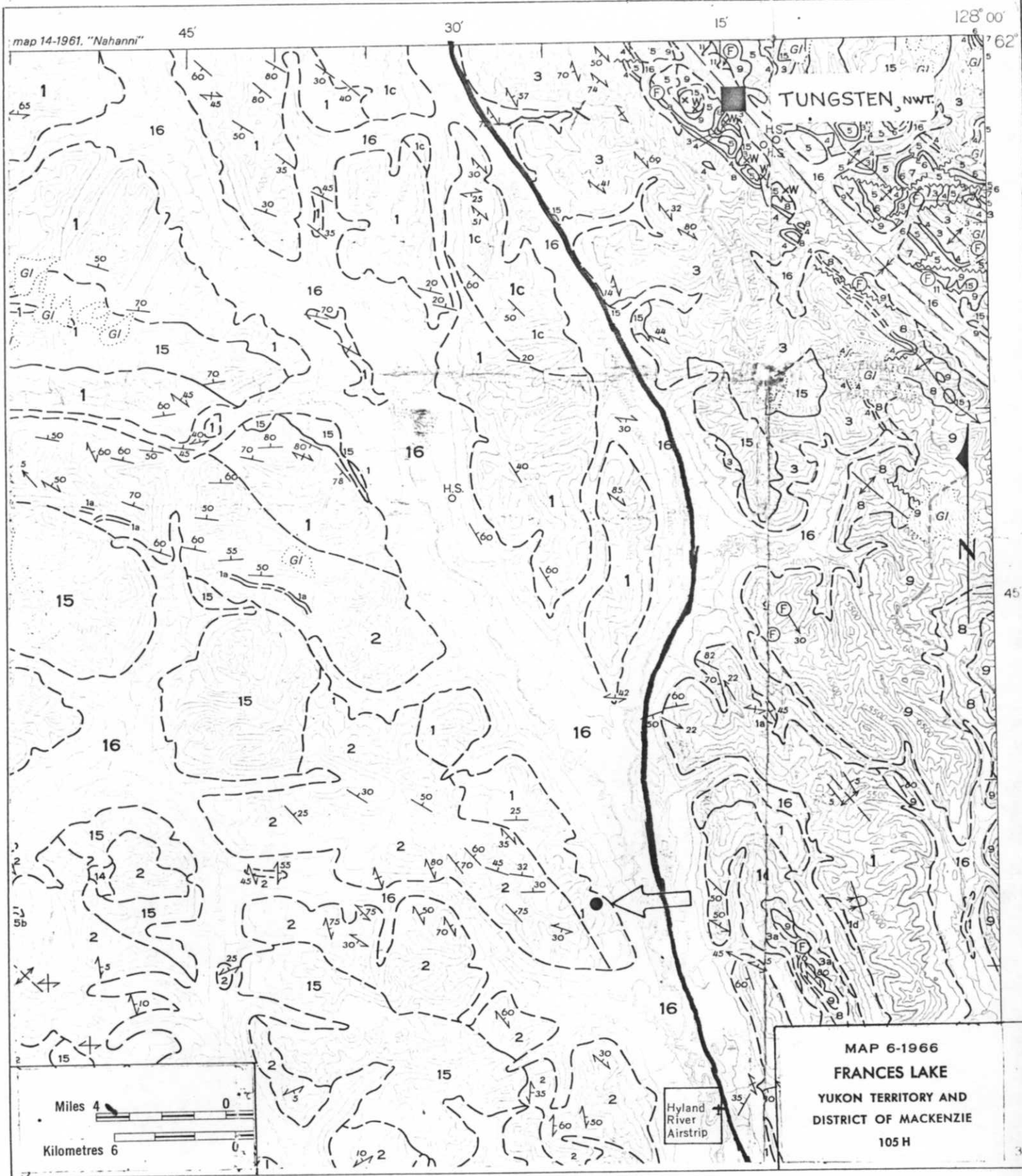
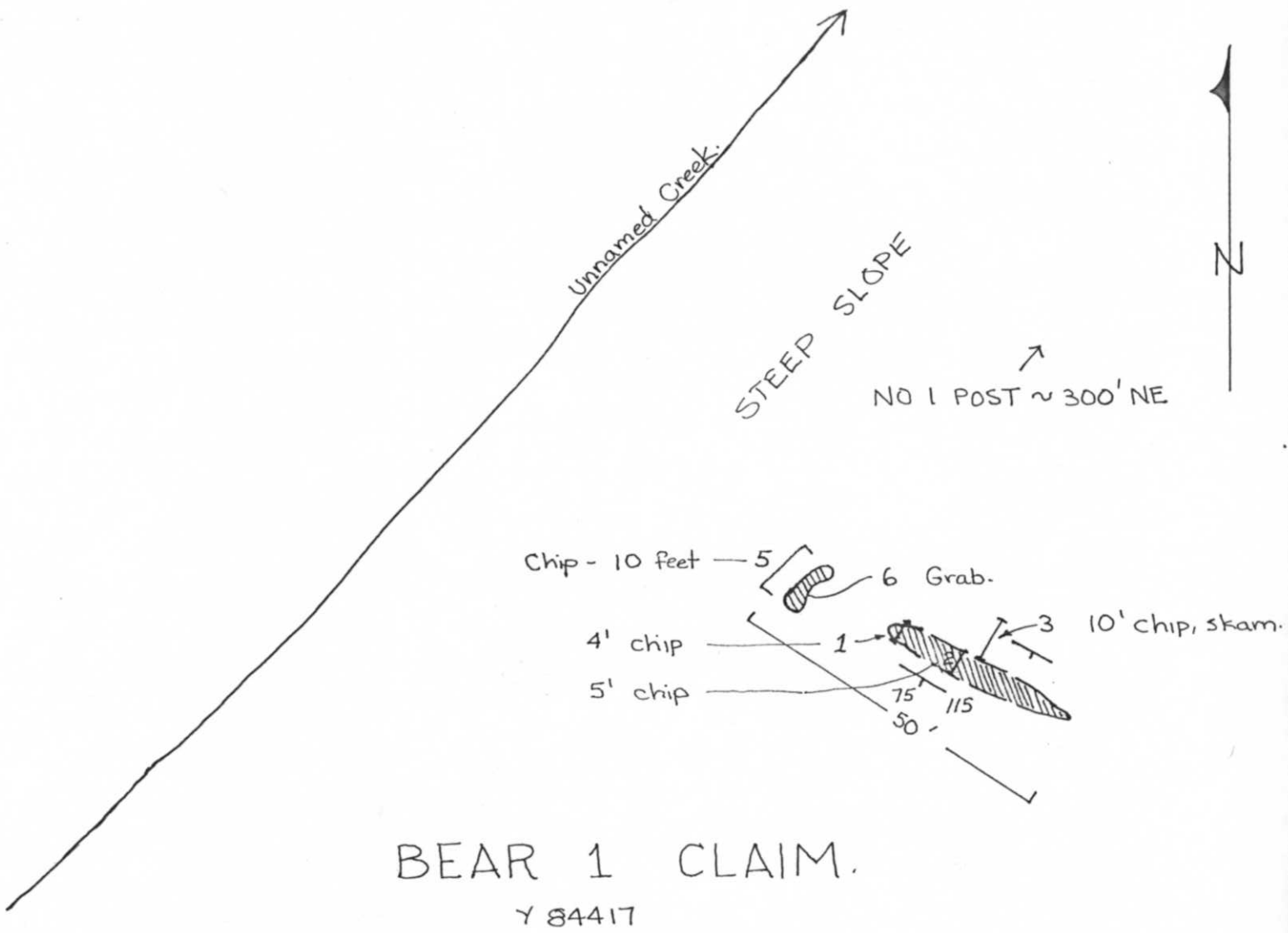


Figure 3  
Regional Geology - Bear Claims area



ASSAYS

No	Type	Pb%	Zn%	Ag oz/ton	Au oz/ton
1	Chip 4'	3.70	2.05	0.58	0.005
2	Chip 5'	6.05	4.28	1.96	<0.002
3	Chip 10' wallrock	0.22	0.30	0.18	<0.002
5	Chip 10'	1.02	0.23	0.34	<0.002
6	Grab.	3.70	1.23	0.42	<0.002

B. PRICE, Sept 10/78.

FIGURE 4.

DELPHI RESOURCES LTD.	
SKETCH OF BEAR 1 ZONE MAPSHEET 105-H.	
NOT TO SCALE.	
B.J. PRICE, M.Sc.	Sept 1978.

B. Price, M.Sc.

Conclusions:

Size and tenor of the mineralized lens, as exposed, are not sufficiently great to warrant development at this time. However, the presence of numerous skarn zones on the property suggests that other mineralized bodies could exist. These could be outlined by geochemical or geophysical methods.

Recommendations:

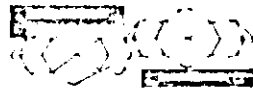
If further work on the claims is contemplated, it should include:

- 1) soil sampling - analyze for Pb, Zn, Ag
- 2) magnetometer surveying with lines run perpendicular to the strike of the sedimentary units
- 3) Electromagnetic surveys, with orientation survey run on the known mineralized lens

Respectfully submitted,

*Barry Price*

Barry Price, M.Sc.



ITEMIZED COST STATEMENT

BEAR CLAIMS - A. BLACK  
WATSON LAKE M.D.

CONSULTING FEES:

Mobilization Sept 8-9 1978-----	\$150.00
Property inspection and sampling Sept 10, 1978-----	\$150.00
Report preparation July 4, 1979 -----	\$150.00
	<hr/>
	\$450.00

TRANSPORTATION:

GMC Vandura 1 day rental @ \$25.00/day-----	\$ 25.00
Gas and oil for truck -----	\$ 25.00
Lift-Air Hughes 500 c helicopter - 2hr@\$125/hr	\$250.00
Fuel for Helicopter -----	\$ 54.00

ASSAY COSTS

Vangeochem Labs Ltd. -----	\$ 97.50
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HOTEL AND RESTAURANT:

Belvedere Motor Hotel -----	\$121.70
-----------------------------	----------

TOTAL	<hr/>	\$1023.20
-------	-------	-----------

*Brian E. Abraham*  
**BRIAN E. ABRAHAM**  
 Barrister & Solicitor  
 1466 - 409 GRAINVILLE STREET  
 VANCOUVER, B.C. V6C 1T2  
 684-1381

*Barry Price*  
 Barry Price, M.Sc.

APPENDICES



## RESUME

NAME: Barry James Price

BORN: Smithers, B.C., August 19, 1944

### EDUCATION:

(A) High School: Smithers, B.C. Graduated 1961

(B) University: B.Sc. Honors Geology 1965, Thesis topic:  
(U.B.C.)

"Tertiary Sediments at Driftwood  
Creek, Smithers Map Area, B.C."

M.Sc., Geology, 1972, Thesis topic:

"Minor Elements in Pyrite and  
Exploration Applications of  
Minor Element Studies"

### EMPLOYMENT RECORD:

1964, (summer) GEOLOGICAL SURVEY OF CANADA.,  
junior assistant, mapping party in Rocky  
Mts., supervised by Dr. G.B. Leech.

1965 - 1968 CHEVRON STANDARD LTD., Alberta  
Senior assistant, regional mapping party  
in Mackenzie and Richardson Mts. Subsurface  
geological studies, carbonate reef research,  
wellsite supervision and production department  
studies.

1968, (summer) MANEX MINING LTD., Smithers, B.C.  
Geological mapping and diamond-drill  
supervision

1969, (summer) MANEX MINING LTD., Smithers, B.C.  
Property mapping and evaluation, geophysical  
and geochemical studies, supervision of  
diamond drilling, geological mapping for  
Jade Queen Mines Ltd.

1970, (summer) ARCHER, CATHRO AND ASSOC.,  
Party chief, regional study of sedimentary  
copper potential of Mackenzie Mts. Recon-  
naissance mapping and geochemical inter-  
pretation.



- 1971, (summer) J. R. WOODCOCK CONSULTANTS LTD.  
Project geologist in charge of exploration of massive sulphide prospect, including geological mapping, geochemistry, geophysics and diamond drilling. Concurrently supervised regional exploration program.
- 1972 - 1976 MANEX MINING LTD., Vancouver, B.C.  
Geologist in charge of field projects. Consulting geological work for New World Jade Ltd., and Delphi Resources Ltd.
- 1976 - 1978 PETRA GEM EXPLORATION OF CANADA LTD.  
Vice-president and exploration manager. Property acquisition and development. Consulting geological work. Director Delphi Resources Ltd., Territorial Gold Placers Ltd.
- 1979 Rapitan Resources Ltd. - President

PROFESSIONAL MEMBERSHIPS:

- Canadian Institute Mining and Metallurgy
- Fellow, Geological Association of Canada
- B.C. Yukon Chamber of Mines

To: Vangeochem Labs Ltd.

REPORT No A29 - 194

PAGE No. 1

**BONDAR-CLEGG & COMPANY LTD.**

DATE: May 1, 1979

1521 Pemberton Avenue  
North Vancouver, B. C. V7P 2S3

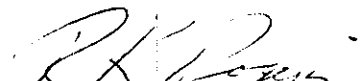
**CERTIFICATE OF ASSAY**

Samples submitted: April 26, 1979  
Results completed: May 1, 1979

PROJECT: Delphi

**I hereby certify** that the following are the results of assays made by us upon the herein described ore samples.

MARKED	GOLD		SILVER	Pb	Zn						TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
BEAR-1, 4' chip	0.005		0.58	3.70	2.05						
BEAR-2, 5' chip	<0.002		1.96	6.05	4.28						
BEAR-3, 10' chip, foot Wall	<0.002		0.18	0.22	0.30						
BEAR-5, ,10' chip Below	<0.002		0.34	1.02	0.23						
BEAR-6, 15' Below #1 grab	<0.002		0.42	3.70	1.23						

  
Registered Assayer, Province of British Columbia



VANGEOCHEM LAB LTD.  
 1521 PEMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

986-5211  
 TELEPHONE: ~~988-2133~~  
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

# Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Petra Gem Exploration Ltd.  
 #200 - 3540 West 41st Ave.,  
 Vancouver, B.C. V6N 3E6

Attention:

Report No: 77 72 011 Page 1 of 1  
 Samples Arrived: Oct 12, 1977.  
 Report Completed: Oct 14, 1977.  
 For Project: Bear  
 Analyst: E.T.

Invoice#4399 Job#77213

Sample Marking	Cu %	Pb %	Zn %	Ag oz/ton	Au oz/ton	W %
B 1	0.06	8.00	4.40	0.52	0.001	Trace
B 2	0.07	8.20	5.20	0.55	0.001	Trace
B 3	0.05	4.80	4.00	0.90	Trace	Trace
B 4	0.06	6.60	5.60	2.64	Trace	Trace

MASTER PRINTING LTD.

REMARKS: *copy sent to General Delivery, Smithers, B.C.*

Signed: *[Signature]*

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.