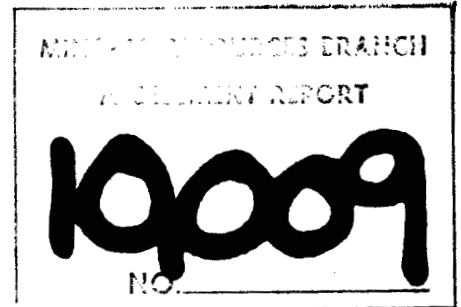


81-1222-10009.

DIAMOND DRILLING REPORT
ON

THE KLIYUL 1 GROUP OF CLAIMS
(Kliyul, Bear, Karen 3, Lady Diana I to IV
and Lady Diana VI Fr.)

OMINECA MINING DIVISION
N.T.S. 94C/5W; 94D/8E
56°27'N 126°00'W



OWNERS:
Teck Corporation
Getty Canadian Metals, Ltd.

OPERATOR:
Getty Canadian Metals, Ltd.

CONTRACT FIELD MANAGEMENT:
Bema Industries Ltd.

AUTHOR:
B.K. Bowen, P. Eng.
Getty Canadian Metals, Ltd.

DATE:
February 5, 1982

*B.K. Bowen
Feb. 5/82*

LIST OF CONTENTS

	<u>Page</u>
INTRODUCTION	
Access and Location	1
Claims	1
Physiography and Climate	4
History and Development	4
SUMMARY OF 1981 WORK	6
DIAMOND DRILLING	6
Drill Pad Preparation	6
Diamond Drilling Program	7
Diamond Drill Hole 81-3	8

APPENDICES

APPENDIX I: STATEMENT OF QUALIFICATION	10
APPENDIX II: STATEMENT OF COSTS	13
APPENDIX III: DDH 81-3 DESCRIPTIVE GEOLOGIC LOG AND ASSAY RECORD	17

LIST OF FIGURES

FIGURE 1: KEY MAP Scale 1:12,000,000	2
FIGURE 2: LOCATION MAP Scale 1:250,000	3
FIGURE 3: CLAIM MAP Scale 1:1,000,000	5
FIGURE 4: DIAMOND DRILL PLAN Scale 1:2,500	In map pocket

INTRODUCTION

ACCESS AND LOCATION

The Porphyry Creek property is located on the northeast flank of the Omineca Mountains, about 340 kilometers northwest of Prince George (see Figures 1 and 2). Access is by road from Fort St. James to Aiken Lake, a distance of about 400 kilometers, and then by helicopter to the property, an additional 15 kilometers. Alternately, wheeled aircraft can land at Johanson Lake, which is about 20 kilometers by helicopter, northwest of the property.

CLAIMS

The Kliyul 1 Group consists of the following claims:

Name of Claim	No. of Units	Record No.	Month of Record	Owner
Kliyul	20	1581	Dec.	Teck Corporation
Bear	12	1997	Aug.	Teck Corporation
Karen 3	8	2263	Oct.	Teck Corporation
Lady Diana I	12	3999	July	Getty Canadian Metals, Ltd.
Lady Diana II	18	4000	July	Getty Canadian Metals, Ltd.
Lady Diana III	9	4001	July	Getty Canadian Metals, Ltd.
Lady Diana IV	15	4002	July	Getty Canadian Metals, Ltd.
Lady Diana VI Fr.	1	4003	July	Getty Canadian Metals, Ltd.

Together these claims cover an area of 2,350 hectares or about 5,800 acres (see Figure 3).

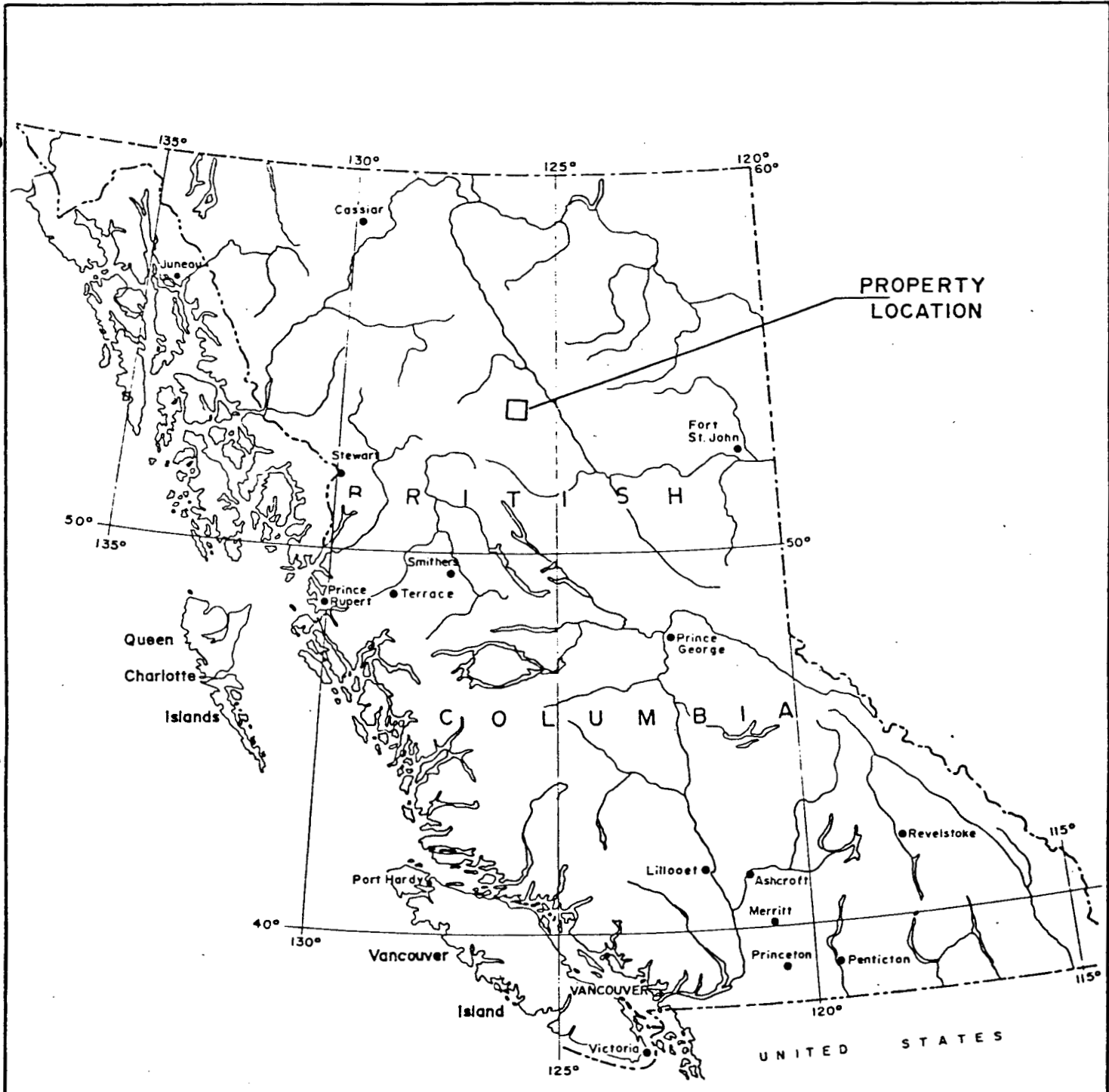
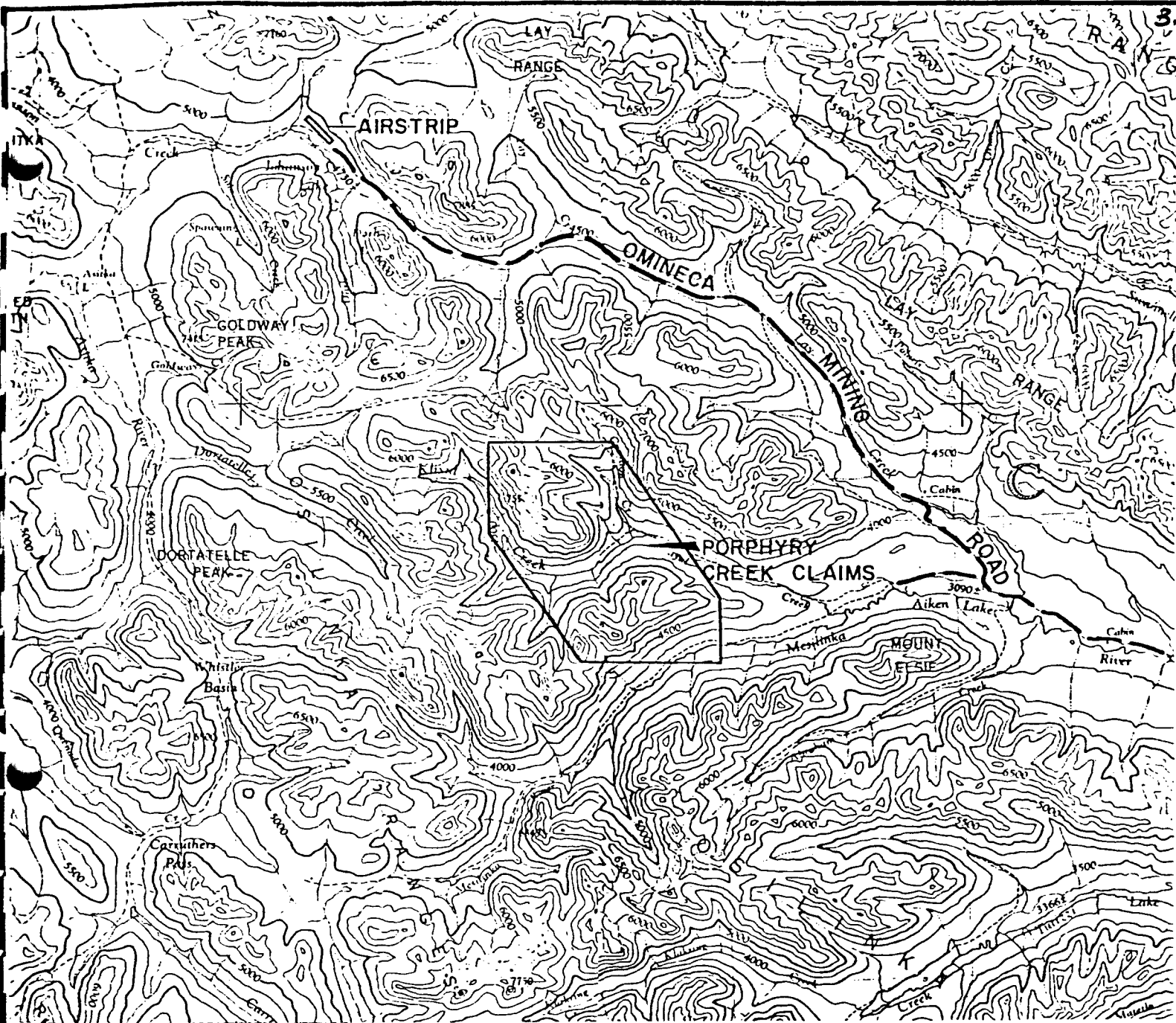


Figure 1

PORPHYRY CREEK JOINT VENTURE	
KEY MAP	
DRAWN BY: G.B.J.	DATE: DEC. 1981
CHECK'D BY: G.N.	DRAW'G. NO.:
N.T.S.: 94C, 94D	SCALE: 1:12,000,000



Scale 1 : 250,000
1 Inch to 4 Miles Approximately

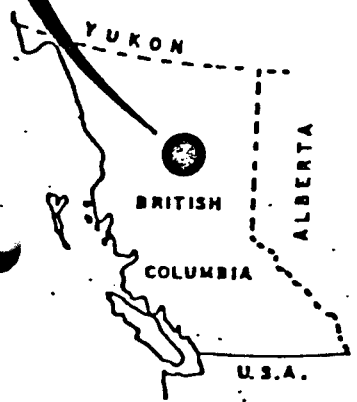
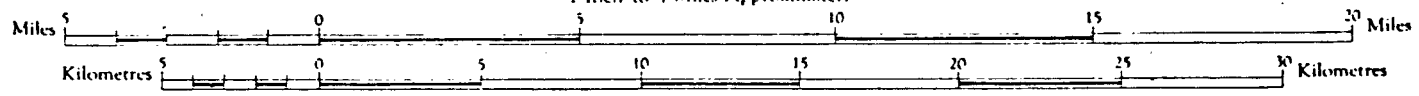
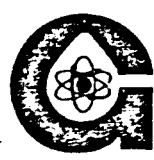


Figure 2

PORPHYRY CREEK JOINT VENTURE	
LOCATION MAP	
DRAWN BY: D. KLEINHOLZ	DATE: DECEMBER, 1981
CHECK'D BY: G.N.	DRAW'G No:
N.T.S.: 94C, 94D	SCALE: 1:250 000
Getty Canadian Metals, Ltd.	



PHYSIOGRAPHY AND CLIMATE

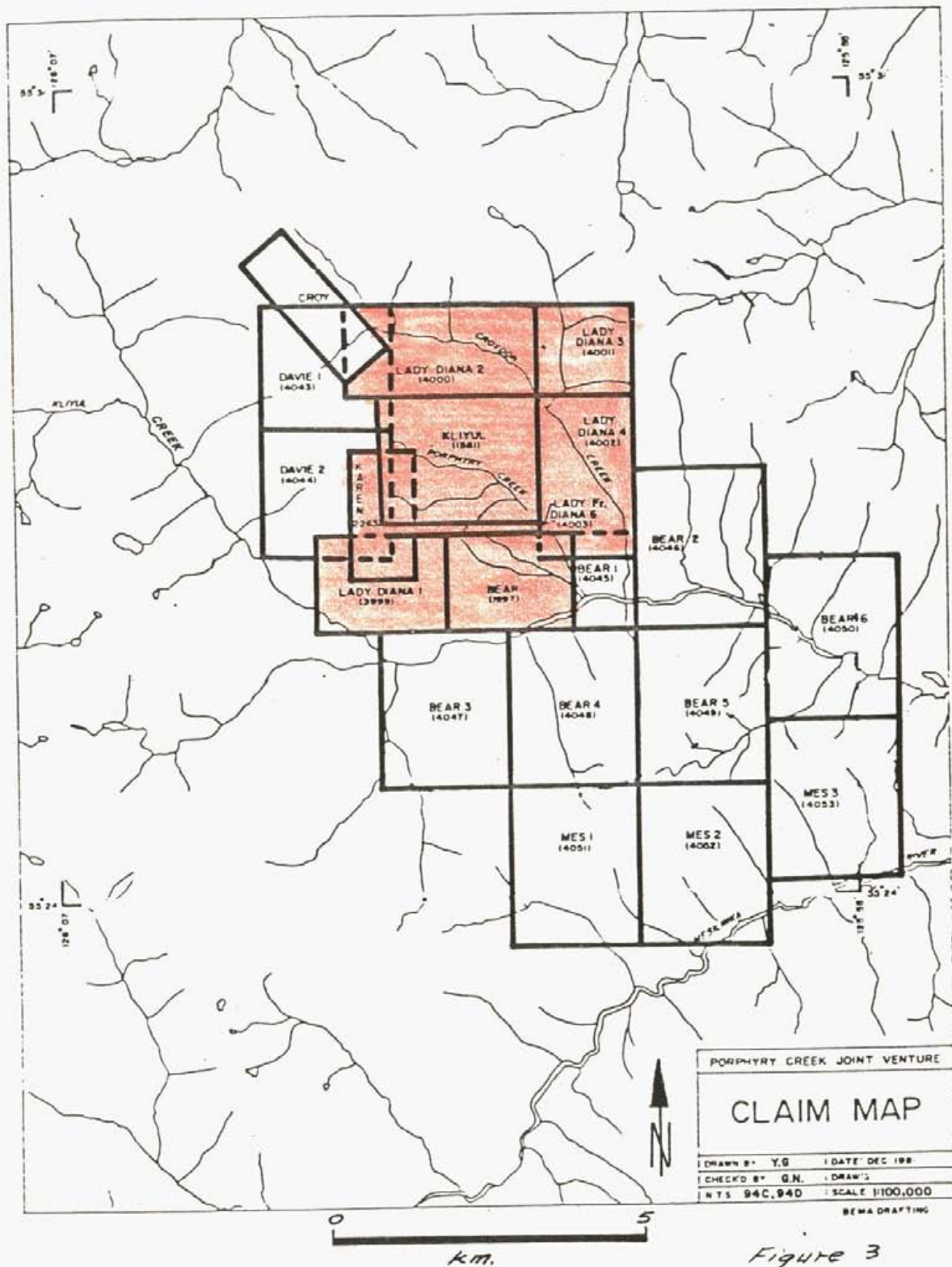
The area is typified by mountainous, well-glaciated, fairly rugged terrain. Cirques are well developed and some contain small alpine or rock glaciers.

The claims straddle the treeline on a steep east-facing slope which is trisected by two canyons. Elevations range from 1,150 meters in Kliyul Creek valley to greater than 1,800 meters along Porphyry Ridge. Climate is typical of the northern interior with long winters and short, cold summers. Below-freezing temperatures are the rule by mid-October. By November, access via the Omineca road is tentative. Annual precipitation, falling mostly as snow, is in the 100 to 125 centimeter range.

HISTORY AND DEVELOPMENT

The prospect was discovered by Rio Tinto in 1963 during the course of a reconnaissance mapping program. In 1964, Rio conducted a detailed program of geological mapping, ground magnetometer and soil geochemical surveys, and diamond drilling. The claims eventually lapsed.

Teck acquired the property in 1978. A drill program consisting of two holes was completed in the latter part of October, 1979. The work was carried out by Teck under an agreement with Chevron Minerals. Teck also remapped exposures and conducted a soil



Kliyl 1 Group

Figure 3

geochemical survey in the immediate drill area.

Other activity in the past was concentrated on some peripheral showings of Au, Cu and Fe.

In June of 1981, Getty Canadian Metals, Ltd. entered into a joint venture agreement with Teck to further explore the property.

SUMMARY OF 1981 WORK

As operator, Getty contracted Bema Industries Ltd. to conduct an exploration program on the Davie Creek Mo prospect during the period July 2 to September 29. The work consisted of claims staking, grid establishment, geological mapping, rock geochemistry, a ground magnetics survey, diamond drilling and core logging. This report covers the results of only one NQ drill hole, 81-3, which was drilled to a total depth of 242.9 meters during the period August 15 to 21. Hole 81-3 lies entirely within the Kliyul claim boundary (see Figure 4 in map pocket).

DIAMOND DRILLING

DRILL PAD PREPARATION

A Bema crew of 4 to 6 men completed three drill pads between August 9 to 20, 1981. A system of wood cribbing and dirt and rock fill was used to establish pads approximately 8 by 12

meters in dimension. Dynamite was used to move material from the steep slope into the timbered crib. A good walking trail was made from camp to all drill sites.

DIAMOND DRILLING PROGRAM

The diamond drilling was done by J.T. Thomas Drilling of Smithers, B.C., utilizing a Longyear "Super 38" drill. Mobilization of drill equipment and personnel (from Johanson airstrip) and the drill (from Baker Mine, 70 miles to the northwest) was done during the period August 12 to 14, using a Bell 204 helicopter. From August 15 to September 15, three NQ holes were completed for a total meterage of 1,260.1. The drill was demobilized September 16 to Johanson airstrip.

No particular drilling problems were encountered. Water for drilling was procured from either Davie or Karen Creeks. Drill moves were helicopter supported, utilizing a Bell 204 or 205. The camp was serviced by regular Jet Ranger and fixed wing flights out of Smithers, B.C.

All diamond drill core was systematically logged, split and assayed. Three meter splits of core were placed in plastic sample bags, tagged and shipped to Chemex Labs, Vancouver, for MoS₂ analyses by standard A.A. techniques. Logging and splitting was completed by September 27 and the camp was demobilized September 28 and 29. All 1981 core is stored on

the property at the base camp location shown in Figure 4 (in map pocket).

Logging of Hole 81-3 was done by George E. Norman, Project Geologist, whose qualifications are given in Appendix I. The descriptive geologic log and assay record for Hole 81-3 is in Appendix III.

DIAMOND DRILL HOLE 81-3

Total depth : 242.9 meters
 Bearing/Dip : 270°/-60°
 Core Size : NQ
 Co-ordinates : 9+845N, 9+726E
 Collar Elevation: 1,513 meters (approx)
 Dip Tests : -68° @ 242.0 meters

The purpose of drill hole 81-3 was to test an outcropping of granodiorite on the southeast wall of Davie Creek canyon which shows moderate to strong MoS₂ mineralization associated with quartz veining and pervasive kspars alteration.

The hole intersected hornfelsed volcanics cut by abundant granophyre diking and veining, quartz microporphyry and porphyritic granodiorite dikes from bedrock to 98.3 meters. The above interval is only weakly mineralized and assayed 0.015% MoS₂ over 90.7 meters. From 98.3 to 242.9 meters, the hole remained in porphyritic granodiorite and averaged 0.04% MoS₂. An alteration zone of moderate quartz veining and strong pervasive k-feldspar containing several sections grading >0.05% MoS₂ was intersected

from 125 to 242.9 meters. This zone probably correlates with the surface outcropping.

B.K. Bowen

B.K. Bowen, P.Eng.
Project Exploration Geologist
5 February 1982

B.K. Bowen
Feb 5/82

APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

1. Getty supervision of the field program was done by B.K. Bowen, P. Eng, whose qualifications are outlined below:

Project Exploration Geologist for Getty Canadian Metals, Ltd., Vancouver, British Columbia. Completed B.A.Sc. at the University of British Columbia in 1970; worked as a student during the summer field seasons with Cominco Ltd. in 1967 and 1968 and with Wayland S. Read, Consulting Geologist, Vancouver, British Columbia in 1969; employed as a Field Geologist, Gilbralter property, May, 1970 to October, 1970 by Placer Development Ltd.; employed as a Field Geologist, Alice Springs, N.T., Australia, from March, 1971 to December, 1971 by Central Pacific Minerals, N.L.; employed as Mine Geologist, Tungsten, Northwest Territories, Canada from May, 1972 to March, 1974 by Canada Tungsten Mining Corporation; employed by Utah Mines Ltd. from March 1974 to March 1980 as a geologist under the supervision of A.J. Schmidt, P. Eng; employed by Getty Canadian Metals, Ltd. from April 1980 to date as a geologist under the supervision of D.A. Silversides, Senior Exploration Geologist.

2. The field work for this report was done by G.E. Norman, whose qualifications are outlined below:

Senior Geologist for Bema Industries Ltd., Langley, British Columbia. Completed B.Sc. (Honours Geology) at the University of Alberta in 1973. Since 1973, has been employed by the following companies: Kaiser Exploration Ltd., Vancouver, from 1973 to 1974; Utah Mines Ltd., Vancouver, from 1975 to 1980; and Bema Industries Ltd., Langely, B.C., from 1980 to date.

APPENDIX II

STATEMENT OF COSTS

APPENDIX IISTATEMENT OF COSTS¹

\$

DIAMOND DRILLING

Total cost (includes footage cost, man and machine hours, materials used, lost or damaged, testing, freight, diesel fuel, and core boxes) 182,798

HELICOPTER

Casual charter 57,619
 Jet Fuel 6,272

FIXED WING

Total 7,871

GEOLOGICAL SUPERVISION (BEMA)

<u>Name</u>	<u>Period</u>	<u>Day</u>	<u>Rate</u>	<u>\$</u>	
G. Norman	Aug 15-Sept 27	44	325	14,300	
A. Gamp	Aug 15-Sept 1	17	95	1,615	
P. Romard	Sept 7-Sept 29	23	125	2,875	
G. Fearnside	Sept 11-Sept 29	19	125	2,375	
H. Aikens	Sept 1-Sept 7	7	95	665	
			Total	21,830	21,830

CAMP SUPPORT

(a) Cook

<u>Name</u>	<u>Period</u>	<u>Day</u>	<u>Rate</u>	<u>\$</u>	
C. Holland	Aug 15-Sept 6	23	145	3,335	
	Sept 11-Sept 29	9	145	1,305	
B. Thoroski	Sept 7-Sept 10	4	145	580	
			Total	5,220	5,220

(b) Support Costs²

	<u>\$</u>
Capital Cost Camp	18,750
Propane	1,000
Groceries	10,000
Expediting	4,548
	<u>34,298</u>

\$

Average support cost/day³
 \$34,298/627 man days = \$54.70

Support cost - drilling only
 \$54.70 X 341 man days⁴ 18,653

DRILL PAD CONSTRUCTION

(a) Labour

<u>Name</u>	<u>Period</u>	<u>Day</u>	<u>Rate</u>	<u>\$</u>	
M. Beley	Aug 8-11	4	250	1,000	
A. Gamp	Aug 9-14	6	95	570	
H. VanAlphen	Aug 8-20	13	175	2,275	
E. Ackerly	Aug 8-20	13	145	1,885	
R. Jordon	Aug 9-14	6	145	870	
G. Stone	Aug 12-20	9	125	<u>1,125</u>	
			Total	7,725	7,725

(b) Timber 734

(c) Explosives 1,914

ASSAY COST (CHEMEX)

488 samples analyzed for MoS₂ @ \$8.00 each = \$3,904
 24 samples analyzed for Cu, MoS₂
 @ \$12.00 each = \$ 300
 Total \$4,204 4,204

SHIPPING

Total 682

REPORT COST

Total 1,500

GRAND TOTAL 317,022

UNIT COST/METER FOR ASSESSMENT DISTRIBUTION PURPOSES:

$$\frac{\$317,022}{1,260.1 \text{ m}} = 251.58$$

\$ ALLOCATED TO DDH 81-3:

$$242.9 \text{ m} \times 251.58/\text{m} = 61,109$$

B. K. Bower
Feb. 5/82.

Footnotes:

- 1 - For total drilling program (i.e., during the period August 12 to September 29, three NQ holes for a total meterage of 1,260.1)
- 2 - For total program (July 2 to September 29)
- 3 - Total \$/total man days (July 2 to September 29)
- 4 - Total man days, drilling only, calculated as follows:

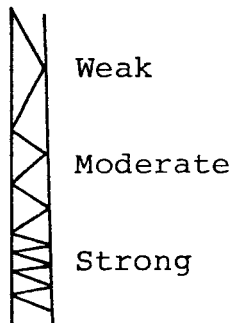
	<u>Man Days</u>
Geological Supervision (Bema)	110
Cooks (Bema)	36
Drill Pad Construction (Bema)	51
Drill Crew (Thomas) - 4 man crew	
Mob - August 12	
Demob - September 16	
36 days X 4 men	<u>144</u>
TOTAL	341

APPENDIX III

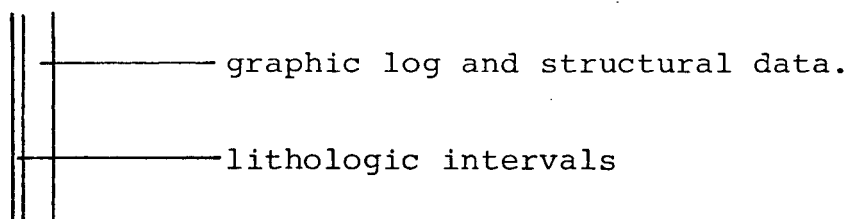
DDH 81-3
DESCRIPTIVE GEOLOGIC LOG & ASSAY RECORD

Explanatory notes for alteration and geology columns of
descriptive log:

1. Alteration intensity symbols:



2. Geology column.



HOLE NO.: 91-3

COLLAR ELEV.:

COORDINATES: 9+245

INCLINATION: -60°

GROUND ELEV.: 1513

N. 9+726 E.

BEARING: 270° Azimuth

PROJECT: Porphyry Creek

DATE STARTED: Aug 14, 1981

DATE FINISHED: Aug 21, 1981

TOTAL DEPTH: 242.9

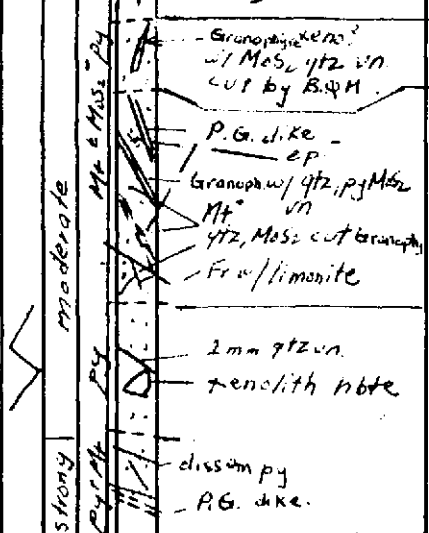
PAGE NO.: 1 OF 17

CLAIM: KLIYUL

SCALE: 1cm = 1m

LOGGED BY: G. Norman

SECTION	ALTERAT'N				MINERAL	GEOLOGY	BEMA INDUSTRIES LTD.		SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	ch/ep/clay	quartz	sericite	Ksp			COMMENTS	AVE. CORE REC'Y/HOLE							
						DESCRIPTIVE GEOLOGY		98%							
5						0-76 <u>Casing</u> Although there is bedrock near drill pad, the ground is very crumbly near surface. Rock is hornblendite cut by granophyre and granodiorite dikes.									
10					py	7.6-8.2 <u>Granophyre</u> f-g siliceous rock w/pinkish tinge			7.6				7.6		
						8.2-9.2 <u>Porphyritic Granodiorite DIKE</u> (P.G.) 70% whitish feldspar pheno crystals (crowded, ext.) 25% brown-pink matrix of feldspar 4.5% intersital biot. ± 2% dissem. py. <u>Rock Fresh.</u>		1/2%	8.2	66.7					
						9.2-12.0 <u>Hornblendite</u> - with dissem Mt - cut by numerous granophyre dikes & minor apophyses of porphyritic granodiorite			8.3	75				67	
						12.0-13.7 <u>Porphyritic Granodiorite</u> dike. as above - some w/ pinkish alter'n of feldspar phenos Ksp? - dissem py ± 1%			9.1	33					
						13.7-25.2 <u>Hornblendite</u>			9.7	79			10.6		
									10.9	63				84	
									11.2	93			12.0		
									12.4	78				86	
									14.0	88			13.7		
15									14.9	56					



HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Ch.
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 2 OF 17
 CLAIM:
 SCALE:
 LOGGED BY:

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	BEMA INDUSTRIES LTD.		SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	Chalcopyrite	Quartz	Sericite	Ksp				COMMENTS	AVE. CORE REC'Y/HOLE							
DESCRIPTIVE GEOLOGY																
10							<p><i>Py</i> - dike <i>py</i> - disseminated <i>lim.</i> <i>py</i> <i>py</i>, <i>qtz</i> - 2mm. <i>py</i> <i>py</i> <i>dissem Mt</i> <i>lim.</i></p>									
20					mod - strong		<p><i>lim</i> <i>dissem Mt</i> <i>qtz, lim</i> <i>Mt</i> <i>Sz</i> <i>lim.</i></p>									
25					mod - str		<p><i>Ag.</i> <i>clkt</i> <i>gouge</i> <i>py</i> <i>qtz, Mt, Sz</i> <i>py</i> <i>gouge</i> <i>ch</i> <i>Calc</i> <i>1mm.</i> <i>py</i> <i>granophyre</i> <i>ep</i> <i>Granoph. vn</i> <i>xcut</i> <i>qtz vn.</i> <i>Ksp</i> <i>in matrix</i> <i>qtz</i> <i>in py</i> <i>locm.</i> <i>ep.</i> <i>traces</i> <i>MtSz</i> <i>granoph. w/ qtz</i> <i>py</i> <i>ons</i></p>									
30							<p><i>py</i> <i>ep</i></p>									
<p><u>Hornblende Cont'd</u></p> <p>15.1 - 15.8 dike - Porphyritic Granodiorite - disseminated <i>py</i>. Fresh.</p> <p>hornblende is a black to dk grey rock - 95% mafic minerals (<i>hb</i>) m-grained. contains disseminated <i>Mt</i> is mod - str. Fr with limonite & fr <i>py</i></p> <p>17.5 - 17.8 Granophyre dike fine hairline <i>py</i>. - f-g siliceous rx with pinkish tinge.</p> <p>hornblende as above.</p>																
<p>24.1 Limit of Oxidation</p> <p>24.1 - 24.2 gouge; broken rock.</p> <p>25.2 - 25.4 Porphyritic Granodiorite - mod - str <i>Ksp</i> <i>alt</i> - <i>qtz</i> <i>vn</i> w/ <i>MtSz</i></p> <p>25.5 - 25.6 Gouge</p> <p>25.6 - 27.5 Hornblende - cont'd w/ minor Granophyre dikes - <i>vn</i>s - some <i>Ksp</i> <i>alt</i> in; mod <i>ep</i> <i>alt</i></p>																
										1/2 - 1/10	67					
										1/2 - 1/10	88			74		
										1/2 - 1/10	88			17.0		
										1/2 - 1/10	67					
										1/2 - 1/10	74			62		
										1/2 - 1/10	30					
										1/2 - 1/10	62			20.0		
										1/2 - 1/10	50					
										1/2 - 1/10	17			27		
										1/2 - 1/10	0					
										1/2 - 1/10	0			23.0		
										1/2 - 1/10	53					
										1/2 - 1/10	75			58		
										1/2 - 1/10	67					
										1/2 - 1/10	42			26.0		
										1/2 - 1/10	80					
										1/2 - 1/10	75					
										1/2 - 1/10	89			79		
										1/2 - 1/10	75					
										1/2 - 1/10	71			24.0		
										1/2 - 1/10	72					

HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Creek
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 3 OF 17
 CLAIM:
 SCALE:
 LOGGED BY:

SECTION	ALTERAT'N				FRACTURING	MINERAL	GEOLOGY	BEMA INDUSTRIES LTD.		SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	chl-ep/clay	quartz	sericite	Ksp an				COMMENTS	AVE. CORE REC'Y/HOLE							
DESCRIPTIVE GEOLOGY																
33					mod-str	Py 1.0m Granoph. dikelet. (Ksp + Qtz) ep. dissem Mt. Py qtz, MoS ₂ 1.0m Granoph. dikelet.	<u>Hornblendite Cont'd</u>			30.9	87					
						Py dissem Mt.				31.4	78			75		
						mm ksp rich Granoph ep. Ksp rich vn. qtz vn trace MoS ₂				32.0	63		32.0			
						calcite 1.5cm Granoph. dikelet (ksp rich)				32.1	80					
35					mod-str	3cm Granoph. dikelet. w/ qtz vn, trace MoS ₂	<u>34.5-34.9 Porphyritic Granodiorite</u>			32.9	80					
						biot → chl chl qtz, py feldsp → clay	- wh. fish colored feldspar 2mm → Kact. - biot → ser - 30-40% ksp. alter'n.			33.3	94			75		
						py ep blotched Fr 1.5cm Granoph. dikelet Ksp rich chl G.P. dike.	<u>34.9-39.2 Hornfels Tuffa Volcanic</u>			33.9	67					
						1.5cm qtz vn. qtz py MoS ₂ Ksp biot → ser Ksp fr qtz vn 3mm chl Fr. py bio → ser MoS ₂ Fr	f-g volcanic - mod. str hornfels - f biotite, mod. magnetic.			34.7	64		35.0			
							<u>37.3-38.6 Porphyritic granodiorite dike</u>			35.2	80					
							- 40% blotchy feldspar xls → clay 45-50% Ksp rich matrix alter'n? 5% biot → chl 5-10% quartz xls (cr. red) 2mm chl Fr cut by qtz py / Py. Fr fillings			35.8	83			72		
40					strong		<u>39.2-41.2 Hornblendite</u>			37.0	71					
							<u>41.2-44.9 Porphyritic Granodiorite</u>			37.5	50		37.5			
							- bio → ser although patches Fresh biot. - 25-30% Ksp alter. along Fr, pervasive. - some clay after feldspar			38.9	41		38.6	42		
										39.5	75					
										40.2	77			76		
										40.8	83					
										40.9	92		41.2			
										41.5	92					
										42.2	67					
										43.3	64					
										43.9	88					
										44.4	22			60		
45													44.9			

2.01 % MoS₂

HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Creek
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 4 OF 17
 CLAIM:
 SCALE:
 LOGGED BY:

SECTION	ALTERAT'N				BEMA INDUSTRIES LTD.		AVE. CORE REC'Y/HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED % M.S.Z.
	Chalcp/chal	quartz	sericite	Ksp	COMMENTS	DESCRIPTIVE GEOLOGY								
45						44.9 - 46.3		45.1	31			30		
						46.3 - 49.4	<u>Hornblendite</u>		46.3			46.3		
						49.4 - 58.7	<u>Porphyritic Granodiorite</u> very poor recovery - some indication of ksp alteration.	6.5%	47.5	25		38		
50						49.4 - 58.7	<u>Quartz Microporphyry</u> Grey medium to fine grained rock. - Fresh 5-10% 1mm-3mm biot → chl 1-2mm felds pau xtl's when present, usually not, although minor porphyritic sections with feldspar plenos → fmm 1-2mm qtz grains alone → 3mm v-hard siliceous grey ground mass of qtz & feldspar. mod-str fr. chl on fr some Musz qtz vns. Cut by ksp rich granopt. dikes - 50% ksp - 50% qtz grains	6.5%	49.4	55	49.4	49.7		
						58.7 - 62.2	<u>Hornblendite</u>		50.9	100		89	11.02	
55								51.4	90					
								52.4	95			52.4	52.7	
								52.9	83				53.6	
								54.6	68			79		
								55.5	100			55.4	55.4	
								55.8	100				56.7	
								56.0	100					
								57.0	100					
									83			91		
								58.5				58.7		
60						58.7 - 62.2	<u>Hornblendite</u>	100%		79		80		

HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Creek
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 5 OF
 CLAIM:
 SCALE:
 LOGGED BY:

SECTION	ALTERAT'N				FRACTURING	MINERAL	GEOLOGY	BEMA INDUSTRIES LTD.		AVE. CORE REC'Y/HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	chsp/clay	quartz	sericite	Ksp				COMMENTS	DESCRIPTIVE GEOLOGY								
65					Strong	Py ep ep after plug granophyre MoS ₂ dissem py PJ	Hornblendite cont. mod-py on Fr & dissem mod-ep on altim Fr & pervasive			60.4	92						
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	62.2-63.6 Porphyritic Granodiorite 5-10% 2mm quartz grains 10% biotite - fresh & → biot 2% 4mm feldspar phenocryst → lt color → clay 50% 2mm feldspar xlls 20% somewhat pinkish ground mass (alteration?).			60.7	78						
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	63.6-65.8 Hornblendite			61.6	67				61.7		
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	65.8-71.6 Quartz Microporphyry & Granophyre. Granophyre's Ksp rich (pink color) & quartz rich ~ 50:50			62.0	67						
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	71.6-72.7 Porphyritic Granodiorite Fresh			63.4	77						
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	72.7-73.5 Granophyre			63.6	83					82	
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	73.5-73.8 Porphyritic Granodiorite Fresh			64.6	95						
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	73.8-77.9 Granophyre			64.8	97					64.7	
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	77.9-80.0 Granophyre			65.4	96						
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	80.0-82.0 Granophyre			66.4	45					73	
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	82.0-85.0 Granophyre			67.1	85						
					Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	85.0-88.0 Granophyre			67.7	53					67.7	
				Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	88.0-90.0 Granophyre			68.6	100							
				Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	90.0-92.0 Granophyre			70.1	13							
				Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	92.0-94.0 Granophyre			70.7	67					70.7		
				Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	94.0-96.0 Granophyre			72.2	88							
				Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	96.0-98.0 Granophyre			73.3	79							
				Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	98.0-100.0 Granophyre			73.6	85					73.7		
				Strong	Py ep after plug granophyre MoS ₂ dissem py PJ	100.0-102.0 Granophyre			74.8								

HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Creek
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 6 OF 11
 CLAIM:
 SCALE:
 LOGGED BY:

SECTION	ALTERAT'N				FRACTURING	MINERAL	GEOLOGY	BEMA INDUSTRIES LTD.		SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	ch/ep/clay	quartz	sericite	Ksp				COMMENTS	AVE. CORE REC'Y/HOLE							
75							str Dig MoS ₂ , py py .5cm py. hornblende xenoc. 1mm py hornblende xenoliths									
					Mod-Strong	MoS ₂	qtz, py	77.9 - 78.5	Porphyritic Granodiorite Fresh - minor kyanophane stringers with fine biotite.	5%	76.4	90		88		
							.5cm calcite, chl .5cm qtz py qtz, py 1mm qtz, MoS ₂ hornblende	78.5 - 82.1	Granophyre		71.9	88		77.7		
80					Mod-Strong	MoS ₂ , CPY	qtz, cpy, MoS ₂ 2mm qtz, MoS ₂ Porphyritic Granodiorite	82.1 - 82.2	Porphyritic Granodiorite Dike Medium grained fine biotite rich dike. somewhat porph in whitish feldspar - fresh		79.4	78		80		
					Mod-Strong	MoS ₂ , CPY	granoph. tem. qtz, MoS ₂ chl. granophyre 1cm qtz, py, MoS ₂	82.2 - 83.9	Porphyritic Granodiorite moderately - wky altered intrusive. 2-3mm bio - 10-15% → chl → 6mm qtz grains: 5-10% in medium to fine grain qtz feldspar granodiorite → clay	5%	80.9	80		80.7		
					Strong		chl	83.9 - 85.4	Granophyre		82.4	90		90		
85							altered feldspar MoS ₂ 2cm Granophyre	85.4 - 87.3	Hornblende	5%	82.4	83		83.7		
							py calcite cuts granoph.	87.3 - 87.6	Granophyre		83.9	88		84		
							calcite py MoS ₂	87.6 - 89.7	Hornblende	5%	85.5	78		86.7		
					Strong		str py 1cm Granophyre py qtz	89.7 - 90.5	Granophyre	2%	81.0	53		87.1		
90							qtz, MoS ₂				82.5 88.6	67		84.1		

HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Creek
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 7 OF 17
 CLAIM:
 SCALE:
 LOGGED BY:

ALTERAT'N				FRACTURING		MINERAL		GEOLOGY		COMMENTS		AVE. CORE REC'Y/HOLE		SULPHIDES		DRILLING INTERVAL		% CORE RECOVERED		CORE SIZE		SAMPLE INTERVAL		% REC'Y SAMP. INT.		ESTIMATED	
SECTION	ch/ep/clay	quartz	sericite	Ksp	STRONG	MOD	SHALY	DESCRIPTIVE	GEOLOGY																		
90								qtz 3mm Mosz	Granophyre Cont'd.	40.5 - 91.1	Hornblendite		90.3	75													
								sharp ep Granophyre lum		91.1 - 94.0	Porphyritic Granodiorite		91.5	33								61					
								hornblendite xenoc. py qtz, ksp halo	Fresh → 930 then some clay alteration: chl on Fr				92.9	81								92.7					
								chl Granophyre feldspar → clay Granophyre.		94.0 - 95.3	Hornblendite		93.5	95													
								Pj Pj ep. Mt					94.5	90								95					
95								Fine biot near cont. Pj Fresh b.c.		95.3 - 98.3	Porphyritic Granodiorite moderately Fresh		95.6	100								95.7					
								chl bio → chl chl					97.1	90													
								Pj ep		98.3 - 99.2	Altered Talc + Calc hornfelsic - somewhat chloritic looking		97.6	83								80					
								Pj qtz b.c. → chl ser - imm qtz Mosz barren qtz veins 4mm Granophyre (qtz Ksp) ser ser altern along Fr. chl gouge str slips w/ Mosz dry offset Granophyre some gypsum in bill. chl		99.2 -	Porphyritic Granodiorite mod. waxy alter'd. 70% blocky feldspar → clay some with pinkish tinge (Ksp) 25% 5-10% biot → chl ser 15% quartz phenos 4mm 5-10 quartz matrix		98.5	56								98.3					
100								Mozz dry; biot - chl; ser chl					102.0	83								85					
													102.4	98								100.6					
													102.4	100								99					
													103.6	100								103.6					
105														100								99					

HOLE : 81-3

COLLAR ELEV.:

COORDINATES:

INCLINATION:

GROUND ELEV.:

N. E.

BEARING:

PROJECT: Porphyry Creek

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

PAGE NO.: 8 OF 17

CLAIM:

SCALE:

LOGGED BY:

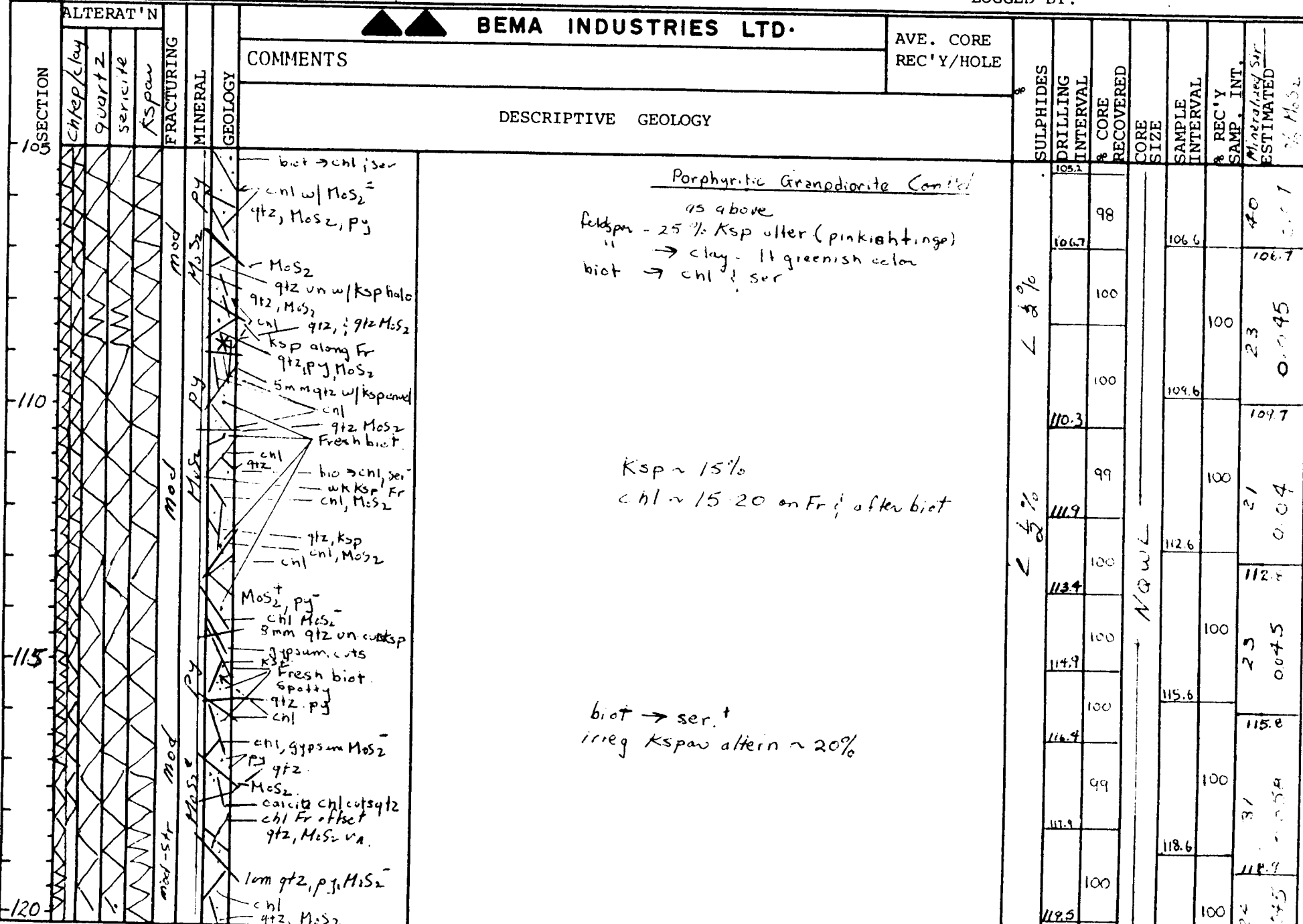
BEMA INDUSTRIES LTD.

COMMENTS

AVE. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SULPHIDES
 DRILLING INTERVAL
 % CORE RECOVERED
 CORE SIZE
 SAMPLE INTERVAL
 % REC'Y
 SAMPLE INT.
 Mineralogy Sur.
 ESTIMATED



HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Creek
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 9 OF 17
 CLAIM:
 SCALE:
 LOGGED BY:

SECTION	ALTERAT'N				FRACTURING	MINERAL	GEOLOGY	BEMA INDUSTRIES LTD.		AVE. CORE REC'Y/HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	MINERALYS. INT. ESTIMATED
	Chl/ep/clay	quartz	sericite	ksp				COMMENTS	DESCRIPTIVE GEOLOGY								
120					mod. sh.		<p>gypsum very Mos₂ staining str Ksp patch ← ksp chl Fresh biot.</p>	▲▲▲				100					
					mod.		<p>chl Mos₂ ser after bio qtz / qtz Mos₂ qtz py Mos₂ chl, Mos₂</p>	▲▲▲			< 5%	121.0	100		121.6		
125					mod.		<p>str Mos₂ qtz Stock work bio → chl-ser 4mm qtz, Mos₂</p>	▲▲▲			< 5%	122.5	100				
					weak		<p>chl barren qtz 4mm. wk py cum zone sericite py chl qtz Mos₂</p>	▲▲▲			< 5%	124.1	100		100		
					weak		<p>Fresh bio- 6mm qtz, Mos₂ w/ Ksp halo qtz uns Mos₂ py Ksp halo</p>	▲▲▲			< 5%	125.6	99		124.6		
130					mod.		<p>py, Mos₂ chl gypsum qtz Mos₂</p>	▲▲▲			< 5%	127.1	95			96	
					mod.		<p>offset qtz Mos₂ by chl Fr. 1mm qtz py chl Fr w/ py chl, Mos₂ wk disseminated py chl</p>	▲▲▲			< 5%	128.6	95		127.6		
					mod.		<p>Mos₂ str. drg. zones str ser.</p>	▲▲▲			< 5%	130.2	97			97	
135								▲▲▲			< 5%	131.7	100		128.0	29	0.55
								▲▲▲			< 5%	133.2	95		127.0	29	0.55
								▲▲▲			< 5%	134.7	100		130.6	29	0.55
								▲▲▲			< 5%				131.7	19	0.55
								▲▲▲			< 5%				133.6	19	0.55
								▲▲▲			< 5%				134.7	19	0.55

▲▲▲ Porphyritic Granodiorite Cont'd
 -25-30% pervasive ksp alkali
 biot → chl & ser

128-130 - Increase in Fresh biotite.
 decrease in Ksp alt. → 5-10%
 decrease in chl alteration.

increase in Ksp - 30% } within increase in
 str sericite zone. } Mos₂ / qtz zoning

NW L

HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Creek
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 117 OF 17
 CLAIM:
 SCALE:
 LOGGED BY:

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N				FRACTURING	MINERAL	GEOLOGY	COMMENTS	AVE. CORE REC'Y/HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	Magnesitized Sample ESTIMATED	% MoS ₂
	chl-ep/clay	quartz	sericite	KSP													
150							Py, MoS ₂ ser qtz qtz w/ ksp halo qtz, MoS ₂ MoS ₂ chl weak dissen py	Porphyritic Granodiorite Contd. 151.2 - 154.3 Gradable increase in ksp short sections up to 70%			152.6	94					
							MoS ₂ Ksp w/ MoS ₂ halo bi → ser dry MoS ₂ MoS ₂ Qtz ser MoS ₂ ser, py str ksp qtz, MoS ₂ , py ⁻ ser MoS ₂ , gypsum py ser Some Fresh biot chl, gypsum	154.3 - 156 Str Ksp alteration → 70% - str ser patches pervas. uc.			151.3	100		151.6	99		
155							3mm qtz MoS ₂ Ksp Fr. bio chl calcite. MoS ₂ dry 2cm qtz, py MoS ₂ chl on irreg qtz MoS ₂ py chl 4cm grey qtz MoS ₂ qtz MoS ₂ 0.5m qtz MoS ₂ gypsum Ksp halo MoS ₂ , platy py ⁻ spars py Fresh biot MoS ₂ , qtz 5cm gypsum MoS ₂ chl, MoS ₂ gypsum, MoS ₂ chl dry MoS ₂ qtz - m MoS ₂	156 - 160.0 10-20% Ksp albun			152.4			152.7			
160								160 - 163.0 - ~10% Ksp, increase in Fresh biot.			154.5		154.6	20		152.9	
											100		100			155.3	
											157.6		157.6		45	158.5	0.08
											100		100		4	160.6	0.075
											160.6		160.6		41	161.6	
											100		100		35	163.7	0.065
165								163 - 166 - increase in Ksp patchy 30-70% pervasive! halo's with qtz vns.			163.7		163.6		35	164.6	

HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Creek
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 14 OF 11
 CLAIM:
 SCALE:
 LOGGED BY:

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	BEMA INDUSTRIES LTD.		AVE. CORE REC'Y/HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	Mineralogical ESTIMATED	% MoS ₂	
	ch/ep/clay	quartz	sericite	ksp				COMMENTS	DESCRIPTIVE GEOLOGY										
195							<p>MoS₂, qtz ser 2mm qtz, MoS₂ 1cm qtz, MoS₂</p>	▲▲											
							<p>1.5cm gouge ser qtz, carbonate qtz MoS₂ irreg. qtz, chl ser MoS₂ Fresh bio 3mm qtz strksp ser, MoS₂ halo</p>												
200							<p>MoS₂ qtz Ksp stronger along MoS₂, qtz Fr py, qtz Fresh bio 4mm, qtz MoS₂ 1.5cm qtz, MoS₂, py ser, py gypsum, MoS₂</p>												
							<p>py chl, MoS₂ bio → ser MoS₂ chl, gypsum, ser MoS₂ gypsum MoS₂</p>												
205							<p>qtz MoS₂ ser, chl MoS₂</p>												
							<p>2mm qtz, MoS₂, py 3mm qtz, ser MoS₂ bio → ser py 5-2mm qtz MoS₂</p>												
							<p>qtz chl qtz, py, MoS₂ gypsum, chl ser, MoS₂ 1cm qtz MoS₂</p>												
210																			

Porphyritic Granodiorite. Cont'd.
 196.4 - 1.5cm gouge - small fault.
 195 - 201.5 - short sections with
 Fresh biot & biot → chl
 also in these sections feldspar → biot
 shown by darker patches
 Ksp varies from 20 - 50%

201.5 - 204.5 Strong Ksp alter'n
 pervasive bio → ser, chl
 original quartz xt'base represented
 by blotches with vague xt'outlines.
 feldspar → Ksp; clay

204.5 - 208 - very strong Ksp alter'n
 → 80% bio → ser no chl
 also feldspar → clay & Ksp

208 - 211.5 alteration weakens somewhat
 Ksp → 40% clay alter'n of feldspar ↑
 chl on Fr

DRILLING INTERVAL	% CORE RECOVERED	SAMPLE INTERVAL	% REC'Y SAMP. INT.	Mineralogical ESTIMATED	% MoS ₂
197.2	100	196.6	100	38	0.07
200.3	100	199.6	100	29	0.055
203.3	100	202.6	100	36	0.068
206.4	98	205.6	99	53	0.098
209.4	100	208.6	100	44	0.081

NGWL

HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Creek
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 15 OF 17
 CLAIM:
 SCALE:
 LOGGED BY:

SECTION	ALTERAT'N				FRACTURING	MINERAL	GEOLOGY	BEMA INDUSTRIES LTD.		SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y	SAMP. INT.	ESTIMATED	
	ch-cp/clay	qtz	ser	ksp				COMMENTS	AVE. CORE REC'Y/HOLE									MINERAL
DESCRIPTIVE GEOLOGY																		
210							ser, chl MoS ₂ gypsum, chl, ser MoS ₂ qtz, py 1.5cm qtz, MoS ₂ Fresh chl-ser selunge bio ser gypsum, MoS ₂ dry MoS ₂ chl, MoS ₂ bio → chl feldspar 4cm qtz un. MoS ₂ conc. near edges 8mm qtz, MoS ₂ bio → ser chl Fresh bio	211.5 - 215.5 ^{Porphyritic Granodiorite Cont'd.} Alteration weakening Fresh biot coming back d' bio → chl and feldspar → clay Ksp ↓ to 20%										
215							mm qtz, gypsum selunge qtz, py MoS ₂ gypsum MoS ₂ chl, gypsum	212.3 - 213 - str. Ksp → 70% pervasive bio → ser	< 5%	212.5	100		211.6	100		27	210.3	
							ser MoS ₂ gypsum, MoS ₂ 1cm. qtz, MoS ₂ chl, ser MoS ₂ patches str ser qtz 5mm wk MoS ₂ MoS ₂ str qtz MoS ₂ qtz, py bio → chl chl, gypsum MoS ₂ qtz MoS ₂ , py qtz, MoS ₂ qtz, carbonaceous, chl ser qtz, MoS ₂ , py MoS ₂ , ser	215.5 - 217.4 Weakly alter'd. Fresh bio, feldspar Fresh, < 10% Ksp alteration, some bio → chl	< 5%	213.4	100		214.6	100		25	213.4	
220								217.4 - 225 Ksp alter'n increases are ~ 30% some short sections upto 70%, chl on fr bio → chl feldspar → clay	< 5%	215.5	100		216.4	100		25	216.4	
										218.5			217.6		12	217.5		
										221.6			220.6		98	219.5		
										224.6			223.6		98	222.5		
225															37	0.07		

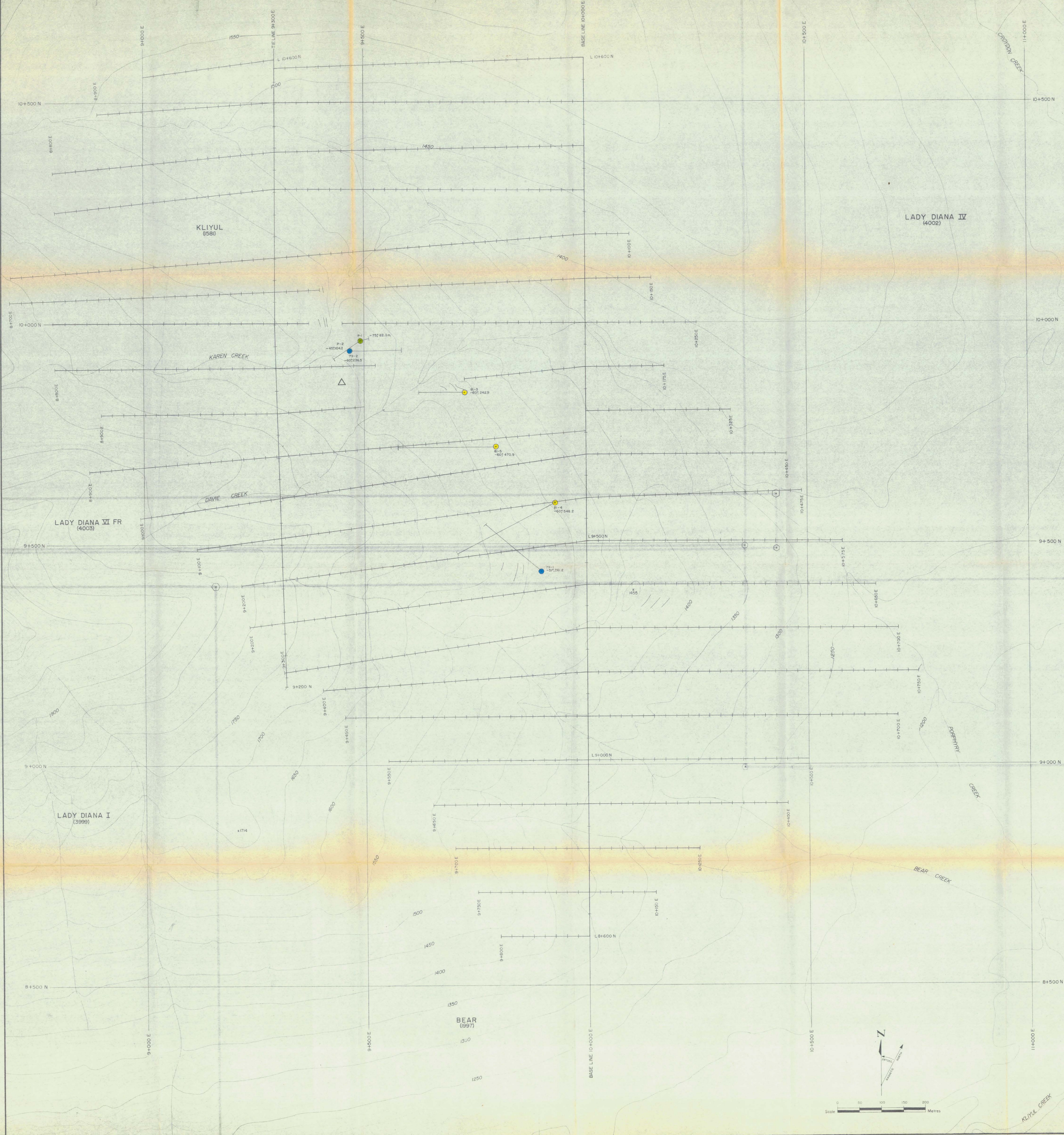
HOLE NO.: 81-3
 COLLAR ELEV.:
 COORDINATES:
 INCLINATION:

GROUND ELEV.:
 N. E.
 BEARING:

PROJECT: Porphyry Creek
 DATE STARTED:
 DATE FINISHED:
 TOTAL DEPTH:

PAGE NO.: 17 OF 11
 CLAIM:
 SCALE:
 LOGGED BY:

SECTION	ALTERAT'N				FRACTURING	MINERAL	GEOLOGY	BEMA INDUSTRIES LTD.		AVE. CORE REC'Y/HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	ch/c clay	quartz	sericite	ksp				COMMENTS	DESCRIPTIVE GEOLOGY								
240	W	W	W	W	50% mod	MoS ₂	<p>cont 44 ps unchl 9tz py MoS₂ 3cm qtz, MoS₂ 2cm gougey slip ser, gypsum 9tz py MoS₂ (3mm) 2cm 9tz py MoS₂</p>	<p>Porphyritic Granodiorite Cont!</p> <p>241.9 - 242.9 Increase in ksp ↑ 60% ;ser</p> <p>242.9 end of hole</p>		< 5%	100	NQWL	241.6	100	242.9	242.9	242.9



- LEGEND**
- DDH # NUMBER, INCLINATION, DEPTH (metres)
 - Surface projection
 - P-1, RIO CANEX DDH (1964)
 - TECK DDH (1979)
 - GETTY DDH (1981)
 - CLAIM POSTS
 - L.C.P. (Legal Corner Post)
 - C.P. (Corner Post)
 - CLAIM BOUNDARY
 - CLAIM NAME, RECORD NUMBER
 - LADY DIANA I (3999)
 - LADY DIANA VI FR (4003)
 - LADY DIANA IV (4002)
 - SURVEY GRID
 - △ Camp location
 - △ Stream
 - TOPOGRAPHIC CONTOUR IN METERS
 - 1:500

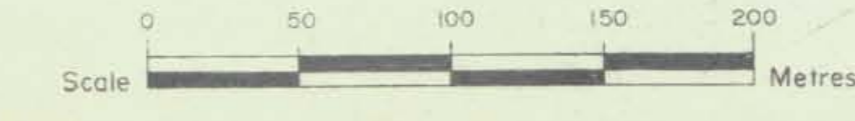
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10,009
R/C

B.K. Bower
Feb. 5/82

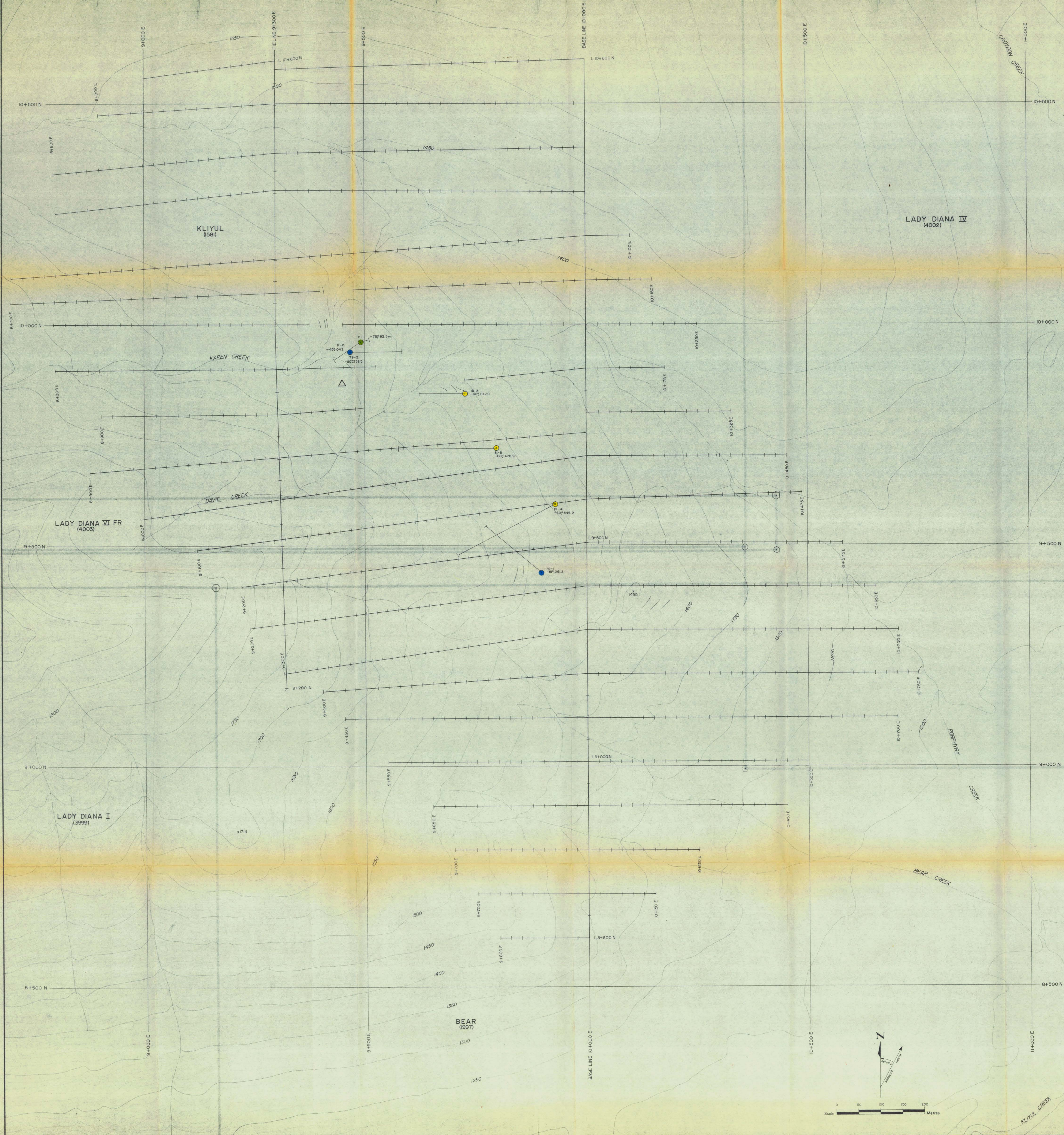
Figure 4

PORPHYRY CREEK JOINT VENTURE

DAVIE CREEK No. 1 PROSPECT
DIAMOND DRILL PLAN



Drawn by: P.M. JAMES, L.C. DATE: FEBRUARY 1982
Checked by: G. NORMAN, B.K.B. DRAWN TO:
N.T.S. 94 G, 94 D SCALE: 1:2,500
GETTY CANADIAN METALS, LTD.
BEMG 6847786



LEGEND

DDH # NUMBER, INCLINATION, DEPTH (metres)

- Color location
- Surface projection
- P-1, RIO CANEX DDH (1964)
- TECK DDH (1979)
- GETTY DDH (1981)

CLAIM POSTS

- L.C.P. (Legal Corner Post)
- C.P. (Corner Post)

CLAIM BOUNDARY

CLAIM NAME, RECORD NUMBER

LADY DIANA I (3999)

LADY DIANA VI FR (4003)

LADY DIANA IV (4002)

KLIYUL (598)

SURVEY GRID

— Cut line with picketed stations

○ Grid origin at intersection of Davie and Porphyry Creeks (10+000N, 10+000E)

CAMP LOCATION

△

STREAMS

TOPOGRAPHIC CONTOUR IN METERS

1:500

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10009
NO.

B.K. Brown
Feb. 5/82

Figure 4.

PORPHYRY CREEK JOINT VENTURE

DAVIE CREEK No PROSPECT
DIAMOND DRILL PLAN

