82-#716-10730

DIAMOND DRILLING REPORT 10

ON

THE KLIYUL 1 GROUP OF CLAIMS

GEOLOGICAL BRANCH
ASSESSMENT REPORT

10,730

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

$56^{o}27'N$ $126^{o}00'W$

OWNERS:

Teck Corporation
Getty Canadian Metals, Ltd.

OPERATOR:

Getty Canadian Metals, Ltd.

CONTRACT FIELD MANAGEMENT:

Bema Industries Ltd.

AUTHOR:

G. E. Norman, B.Sc.
Bema Industries Ltd.

DATE:

October 20, 1982

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P. Romard

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INTRODUCTION

ACCESS AND LOCATION

The Porphyry Creek property is located on the northeast flank of the Omineca Mountains, about 340 kilometres 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 kilometres, and then by helicopter to the property, an additional 15 kilometres. Alternately, wheeled aircraft can land at Johanson Lake, which is about 20 kilometres 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).

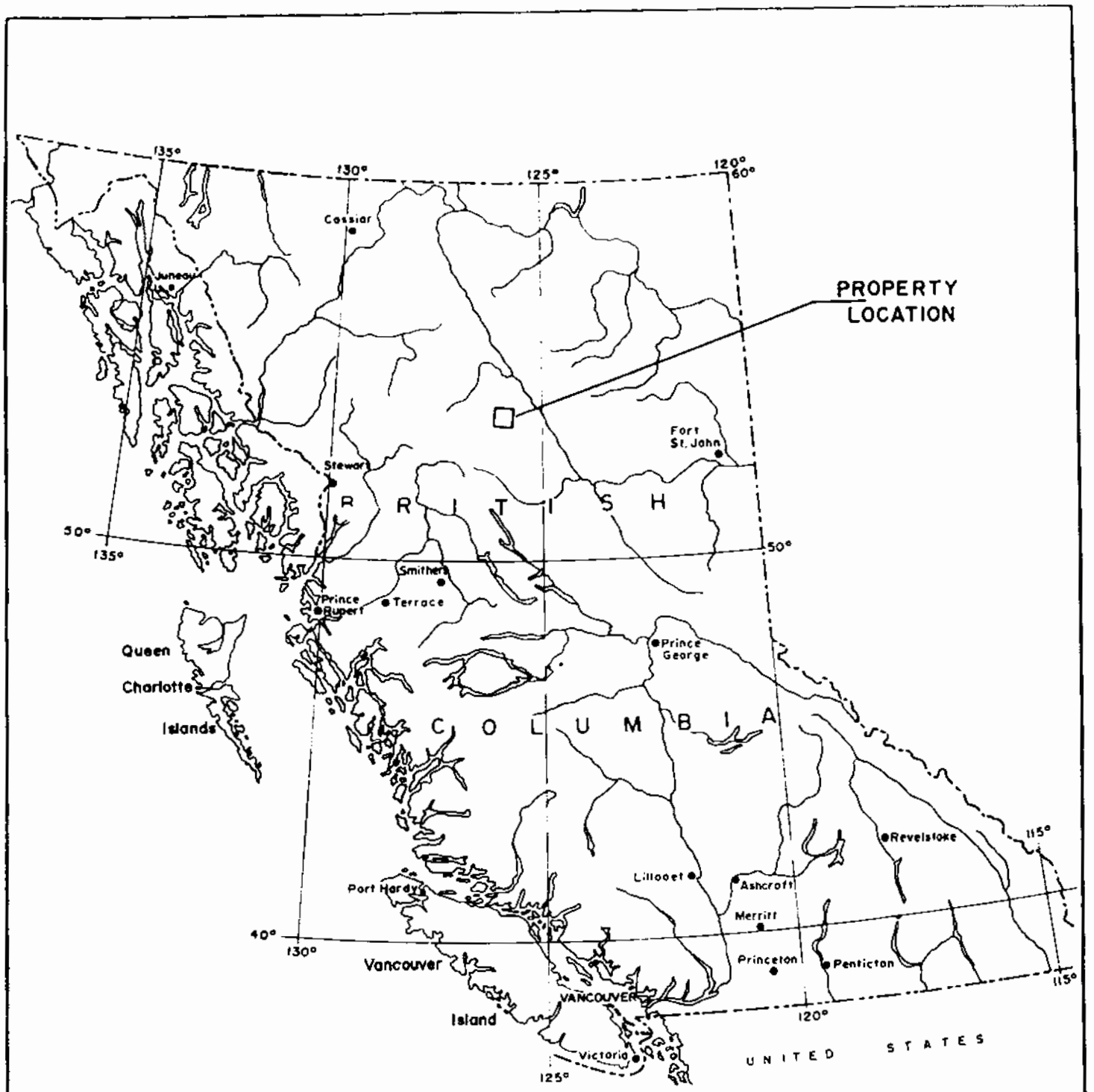
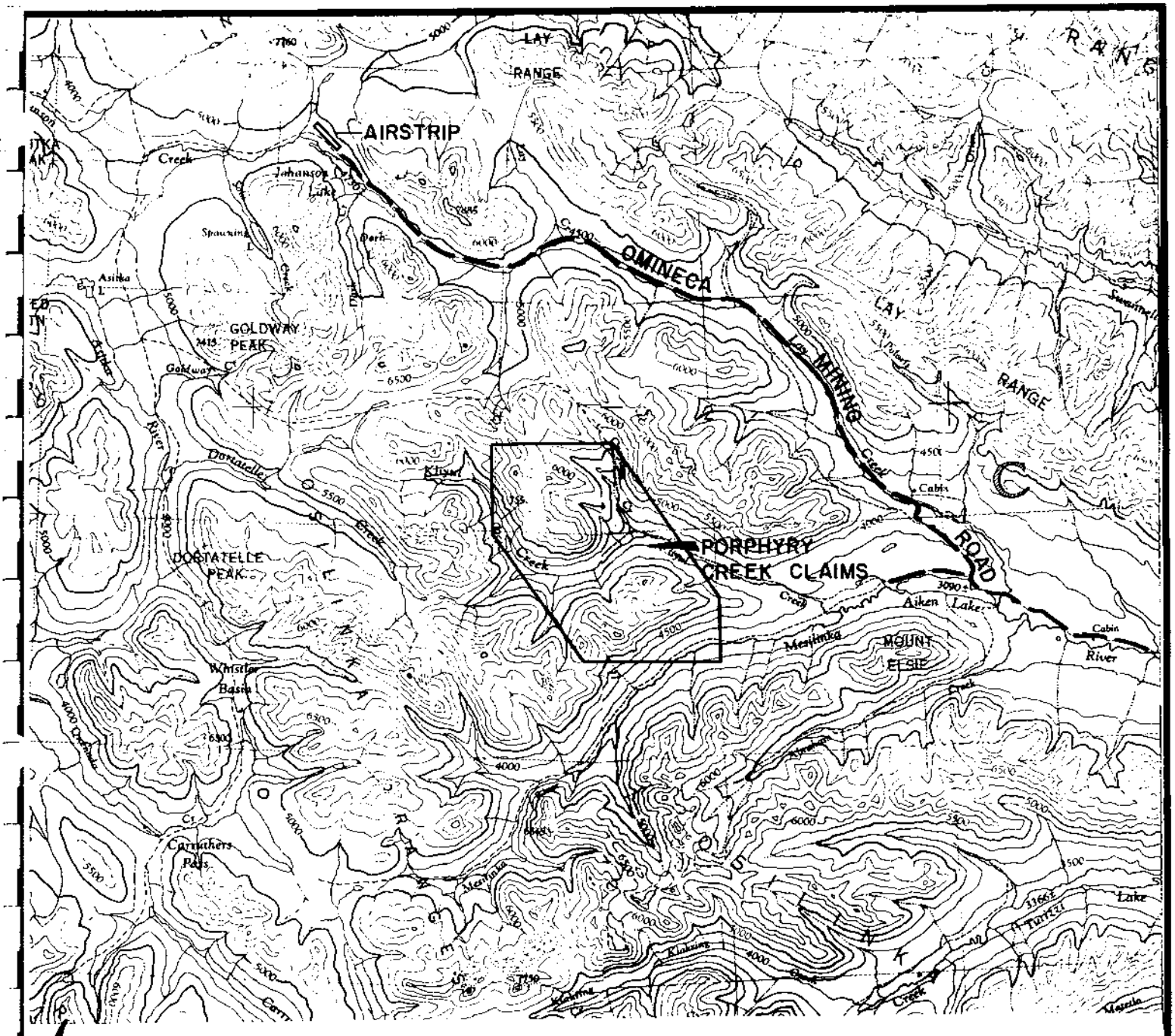
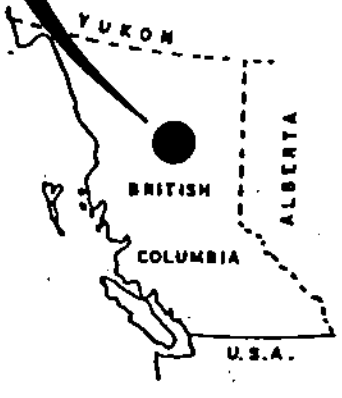


FIGURE 1

PORPHYRY CREEK JOINT VENTURE	
KEY MAP	
DRAWN BY: G.B.J.	DATE: OCTOBER 1982
CHECK'D. BY: G.N.	DRAW'G. Nº.:
N.T.S.: 94C, 94D	SCALE: 1:12,000,000

BEMA DRAFTING/G.B.J.





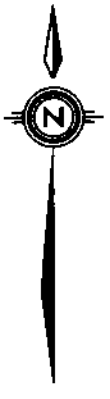
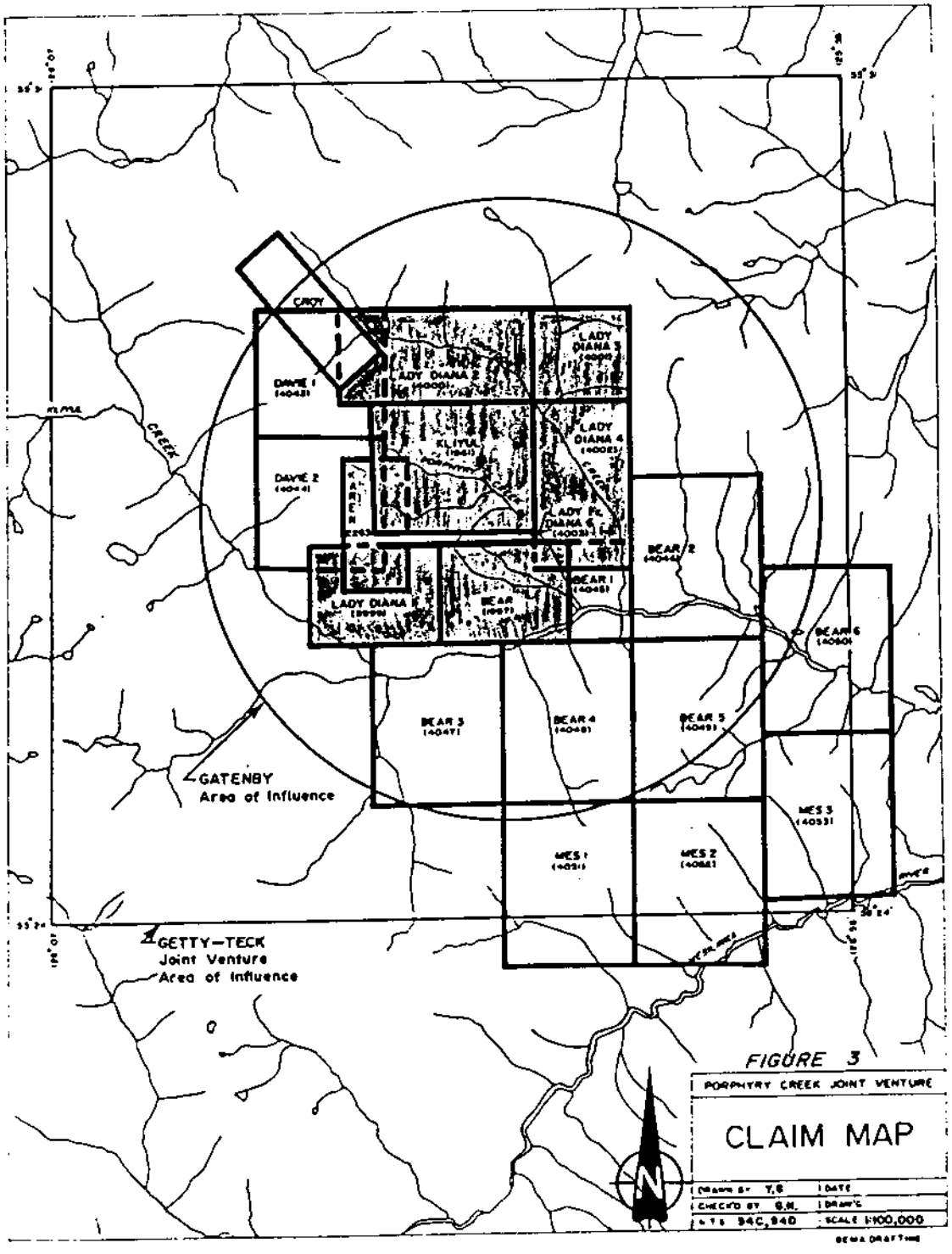


FIGURE 2

PORPHYRY CREEK JOINT VENTURE	
LOCATION MAP	
DRAWN BY: D. KLEINHOLZ	DATE: OCTOBER 1982
CHECK'D BY: G.N.	DRAW'G No:
N.T.S.: 94C, 94D	SCALE: 1:250000

Getty Canadian Metals, Ltd.


CROY
DAVIE 1
DAVIE 2
LADY DIANA 2
LADY DIANA 3
KLITUL
LADY DIANA 4
LADY DIANA 6
LADY DIANA 5
BEAR 1
BEAR 2
BEAR 3
BEAR 4
BEAR 5
BEAR 6
MES 1
MES 2
MES 3
CREEK
GATENBY
Area of Influence
GETTY—TECK
Joint Venture
Area of Influence
FIGURE 3
PORPHYRY CREEK JOINT VENTURE
CLAIM MAP
DATE
DRAW'G
SCALE 1:100,000
DEMA DRAFTING

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 metres in Kliyul Creek valley to greater than 1,800 metres 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 centimetre 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 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. During 1981 Getty remapped the area of interest, completed a proton magnetometer survey and drilled 3 NQ diamond drill holes for a total of 1,260.1 metres.

SUMMARY OF 1982 WORK

Bema Industries Ltd. was contracted by Getty Canadian Metals Ltd. to continue exploration on their Davie Creek Mo prospect during the period of July 10 to September 20, 1982. The work consisted of grid establishment, soil geochemistry, ground magnetics, diamond drilling and core logging. This report covers the results of NQ diamond drill hole 81-3 which was deepened 214.3 metres from 242.9 metres to 457.2 metres and the upper portion of hole 82-06 from 0 - 333.0 metres. The total depth of 82-06 is 777.71 metres. Diamond drill hole 81-3 was drilled during the period August 2 to 8 and hole 82-06 was drilled during the period August 9 to 31. Hole 81-3 lies entirely within the Kliyul claim boundary whilst hole 82-06 straddles the Kliyul and Lady Diana VI Fr claim boundaries (see Figure 4 in map pocket).

DIAMOND DRILLING

DRILL PAD PREPARATION

A Bema crew of 4 men completed one drill pad and enlarged an existing pad between July 13 to July 17, 1982. A system of wood cribbing, dirt and rock fill was used to establish drill pad 81-3 during 1981. Dynamite was used this year to enlarge the existing pad by moving material from the steep slope into the timbered crib. Cribbing was not necessary, in the preparation of drill pad 82-06. A convenient bench in the slope was utilized, although some blasting was required to level the area. A sturdy helipad was constructed (near the 82-06 drill site) to assist in drill shift change.

Existing walking trails were revamped and extended down to the 82-06 drill site.

DIAMOND DRILLING PROGRAM

The diamond drilling was done by D. W. Coates Enterprises Ltd. of Richmond, B. C., utilizing a Longyear "44" drill. Mobilization of drill equipment and personnel (from Johanson airstrip) was done during the period July 30 to August 1, using a combination of Bell 206, 204 and A-Star helicopters. From August 2 to August 31 one NQ diamond drill hole was drilled and one NQ hole was deepened for a total metreage of 992.0. The drill was demobilized September 1 to 2 to Johanson airstrip.

No particular drilling problems were encountered deepening hole 81-3, although some time was spent in determining what diamond bits best suited the hard ground conditions. Water for 81-3 was procured from Karen Creek.

Large volumes of artesian water flow encountered from fault zones within the upper portion of 82-06 slowed and eventually stopped drilling until the zones could be sealed off.

The first artesian zone originated at 55 metres depth and was sealed off by drilling down H. W. casing past the fault zone. The second artesian flow originated at 94 metres depth and was successfully sealed off utilizing grout plugs and "TACS". The hole continued to make a limited amount of water throughout the duration of the drilling and slowed progress somewhat, especially when lowering the rods. Water for drilling was pumped from Porphyry Creek at its junction with Davie Creek. The drill move from hole 81-3 to hole 82-06 was supported by a Bell 204 helicopter.

Northern Mountain's Bell 206 was stationed at their Johnson Lake base from early June to mid-October and greatly assisted us in servicing our camp. Regular fixed wing flights out of Smithers were directed to Johanson Lake where connecting helicopter flights were made to camp.

All diamond drill core was systematically logged, split and assayed. Three metre splits of core were placed in plastic sample bags, tagged and shipped to Chemex Labs, Vancouver, for MoS_2 analyses by standard A.A. techniques. Logging and splitting were completed by September 17 and the camp was demobilized September 17 to 20. All 1982 core is stored on the property at the base camp location shown in Figure 4 (in map pocket). Logging of diamond drill hole 81-3 was done by the author and hole 82-06 was done by myself, Gary Nordin and Paul Romard (see Appendix I for statement of qualifications). The descriptive geologic logs and assay records for 81-3 and 82-06 are given in Appendix III.

DIAMOND DRILL HOLE 81-3 EXTENSION

Total Depth:	457.2 metres
1982 Extension:	242.9 - 457.2
Total Metreage drilled 1982:	214.3 metres
Bearing/Dip:	$270^{o}/-60^{o}$
Core Size:	N Q
Co-ordinates:	9+845N 9+726E
Collar Elevation:	1,573 metres
Dip Tests:	-68° @ 242.0 metres -61.5^{o} @ 350.5 metres -62° @ 457.2 metres

The purpose of drill hole 81-3 was to test an outcropping of porphyritic granodiorite on the southeast wall of Davie Creek canyon which shows moderate to strong MoS_2 mineralization associated with quartz veining and pervasive K-feldspar alteration. The 1981 portion of hole bottomed in strongly altered (K-feldspar-sericite) porphyritic granodiorite and assayed .04% MoS_2. The extension of hole completed during 1982 was done to explore for higher grade mineralization deeper in the porphyry system.

The 1982 portion of the hole intersected mineralized porphyritic granodiorite from 242.9 to 362.1 metres and averaged .04% MoS_2. A short section averaging .056% MoS_2 was intersected from 336 to 348 metres. The intrusive is moderately to strongly altered with pervasive K-feldspar from 242.9 to 315 metres. Hornfelsed Takla volcanics (hornblendite), quartz microporphyry and grey biotite quartz feldspar dykes were intersected from 362.1 to 433.1 metres. The remaining portion of the hole to 457.2 metres intersected hornblendite. The section, 362 - 433.1 metres, assayed .017% MoS_2 and section 433.1 to 457.2 metres averaged .006% MoS_2.

DIAMOND DRILL HOLE 82-06

Depth of Hole:	777.71
Portion Submitted for Assessment Purposes:	0 - 333.0 metres
Bearing/Dip:	$243^{o}/-55^{o}$
Core Size:	N Q
Co-ordinates:	9+680N 10+120.5E
Collar Elevation:	1,390 metres (approx.)
Dip Tests:	-54.5^{o} @ 166.7 metres -54.5^{o} @ 293.5 metres

The purpose of diamond drill hole 82-06 was to test the grade and continuity of a mineralized intercept of porphyritic granodiorite which was intersected in hole 81-4 drilled during the 1981 exploration program. A summary of the particulars of the upper portion of hole 82-06 are given in Table I.

..../7

TABLE I

82 - 06 GEOLOGIC AND ASSAY SUMMARY

GEOLOGIC SUMMARY		ASSAY SUMMARY % MoS_2	
INTERVAL (METRES)	ROCK UNITS	INTERVAL (METRES)	ASSAY (% MoS_2)
0 - 17.4	Overburden		
17.4 - 170.0	Dioritized volcanics (Sub Diorite) and Grey Feldspar Porphyry and Andesite dykes	17.4 - 233.0	.009
170.5 - 220.0	Gradational alteration of Dioritized Volcanics to Hornblendite		
220.0 - 333.0	Hornblendite and Grey Biotite Feldspar Porphyry Dykes	233.0 - 329.0	.025

The upper portion of hole 82-06 intersected negligible MoS_2 mineralization within dioritized volcanics and hornblendite. The grey biotite feldspar porphyry dykes are weakly mineralized but not strongly altered.

G. Norman

G. E. Norman Nov 2, 1982
Senior Project Geologist

APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, GEORGE NORMAN OF BEMA INDUSTRIES LTD. DO HEREBY CERTIFY THAT:

1. I completed B.Sc. (Honours Geology) at the University of Alberta, 1973.

2. I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

3. I have practised my profession as a geologist since 1973 and have been employed by the following companies:
   Kaiser Exploration Ltd., 1973 - 1974;
   Utah Mines Ltd., 1975 - 1980;
   presently employed by Bema Industries Ltd. from March 1980 to date as a consultant geologist under the supervision of G. Nordin.

4. I have no interest, direct or indirect, in the property or shares of
   nor do I expect to receive any such interest.

5. That the information contained in this report is both true and correct to the best of my knowledge.

signed: G. Norman G. Norman
G. Norman, B.Sc.

date: Oct. 26, 1982 Oct 26/82

STATEMENT OF QUALIFICATIONS

I, GARY D. NORDIN OF BEMA INDUSTRIES LTD. DO HEREBY CERTIFY THAT:

1. I am a graduate of the University of Alberta and hold the following degree:

   B.Sc. Honors Geology, 1970.

2. I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta, and a fellow of the Geological Association of Canada.

3. I have practised as a professional geologist since 1970, gaining a wide variety of geological experience with mining companies, petroleum companies and the British Columbia government.

4. I have no interest, direct or indirect in the property or shares of
   nor do I expect to receive any such interest.

5. That the information contained in this report is both true and correct to the best of my knowledge.

signed: _____

G. D. Nordin, B.Sc.
Senior Geologist

date: October. 22, 1982

PAUL ROMARD

Temporary Geological Technician for Bema Industries Ltd., Langley, British Columbia. Completed geological technician's program at Sir Sandford Fleming College, Lindsay, Ontario in 1981; worked as a student during the summer field season of 1980 with New Jersey Zinc Exploration Co. Ltd.; employed by Bema Industries Ltd. as temporary geological technician during the past two summer field seasons of 1981 and 1982 under the supervision of Gary Nordin, Senior Geologist.

APPENDIX II

STATEMENT OF COSTS

APPENDIX II

STATEMENT OF COSTS[1]

	$
DIAMOND DRILLING (D. W. Coates Enterprises Ltd.)	
Total cost (includes footage cost, man and machine hours, materials, testing, freight diesel fuel and core boxes).....	122,500
HELICOPTER (Northern Mountain Helicopters Ltd.)	
Casual charter..... (includes fuel)	48,750
FIXED WING (Central Mountain Air Services Ltd.)	
Total.....	3,000

GEOLOGICAL SUPERVISION (BEMA)

Name	Period	Day	Rate/Day	$	
G. Norman	July 30-Sept 1 Sept. 10-Sept 17	42	250	10,500	
G. Nordin	Sept 10-Sept 17	8	350	2,800	
S. Keenan	Aug 6-Aug 21	16	125	2,000	
P. Romard	Aug 24-Sept 16	24	125	3,000	
D. Harris	Sept 10-Sept 17	8	125	1,000	
		Total.....		19,300	19,300

CAMP SUPPORT

(a) Cook

Name	Period	Day	Rate/Day	$	
C. Harris	July 30-Sept 3	36	175	6,300	
	Sept 4-Sept 17	14	140	1,960	
		Total.....		8,260	8,260

(b) Support Costs[2]

	$
Camp Fuel	3,670
Propane	720
Groceries	10,300
Expediting	3,000
Freight	3,200
Generator Rental - 72 days @$30.24/day	2,177
Total.....	23,067

	$
Average support cost/day[3] $23,067/491 man days = $46.98	
Support cost - drilling only $46.98 X 312 man days[4]	14,658

DRILL PAD CONSTRUCTION

(a) Labour

Name	Period	Day	Rate/Day	$	
W. Struck	July 14-17 Aug 1	5	185	925	
D. Harris	July 13-17	5	165	825	
G. Coleman	July 13-17	5	150	750	
D. MacIsaac	July 13-17	5	150	750	
			Total.....	3,250	3,250

(b) Timber.....	300
(c) Explosives.....	645

ASSAY COSTS (CHEMEX)

185 samples analyzed for MoS_2 @$ 8.25 each	$1,525.25	
23 samples analyzed for Au, MoS_2 @$15.25 each	350.75	
Total.....	$1,876.00	1,876

SHIPPING

Total.....	445

REPORT COST

Total.....	1,500
GRAND TOTAL.....	224,484

UNIT COST/METRE FOR ASSESSMENT DISTRIBUTION PURPOSES

$$\frac{224,484}{992.0} = \$226.29/\text{metre}$$

$ ALLOCATED TO DDH 81-3	=	214.3 x 226.29	=	48,494.88
$ ALLOCATED TO TOP PORTION 82-06	=	333 x 226.29	=	75,356.02
TOTAL ALLOCATION			=	123,850.90

Footnotes:

1 - For total drilling program (i.e., during the period July 30 - September 3) 2 holes for a total meterage of 992.0

2 - For total program (July 10 to September 17)

3 - Total $/total man days (July 10 to September 20)

4 - Total man days, drilling only, calculated as follows:

	Man Days
Geological Supervision (Bema) July 30-Sept 17	98
Cook (Bema) July 30-Sept 17	50
Drill Pad Construction (Bema) July 14-Aug 1 Drill Crew (D.W. Coates) 4 man crew	20
Mob - July 30	
Demob - September 3	
36 days X 4 men	144
TOTAL	312

G. Norman Oct 26/82

George E. Norman, B.Sc.
Senior Project Geologist

G. Norman Oct 29/82

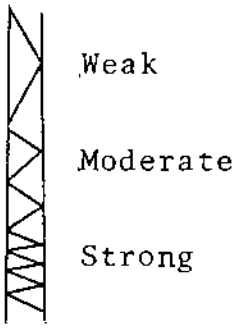
APPENDIX III

DDH 81-3, DDH 82-06

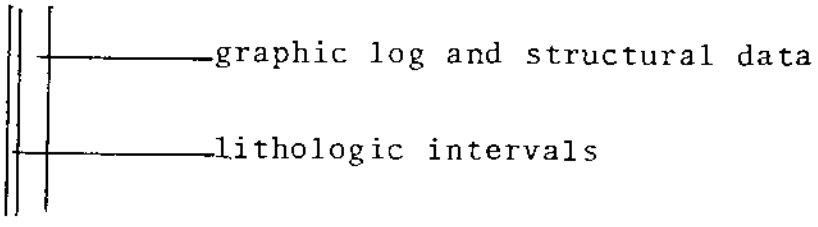
DESCRIPTIVE GEOLOGIC LOGS AND ASSAY RECORDS

Explanatory notes for alteration and geology columns of descriptive log:

1. Alteration intensity symbols:



2. Geology column.



HOLE NO.: 81-3
COLLAR ELEV.:
COORDINATES: 9+845 N. 9+726 E.
INCLINATION: -61.5° 350.5
GROUND ELEV.: 1573
BEARING: 270°

PROJECT: Porphyry Creek
DATE STARTED: Continue hole Aug 21 1982
DATE FINISHED: August 31, 1982
TOTAL DEPTH: 457.2m

PAGE NO.: 17 OF 31
CLAIM: Kliyul
SCALE: 1cm : 1m
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

AVE. CORE REC'Y/HOLE 98%

SECTION	ALTERAT'N chl/clay	quartz	sericite	ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
240					Strong Mod	py, MoS2		chl & qtz pseudochl MoS2; qtz, py MoS2; 3cm qtz, MoS2; 2cm gray gray slip ser, grip 3cm; grip qtz, py MoS2 (3mm); ser; 2cm qtz py MoS2	Porphyritic Granodiorite Cont'd. 241.9 - 242.9 Increase in ksp ↑60% ; ser	<1%		100	NQWL	241.6; 242.9	100	249.8; 10; 0.0; 242.9
									242.9 end of hole 1981 - Continued 1982.		242.9					
245					Mod Str	py MoS2		some ground core; 2mm qtz MoS2; perv. ksp; str jt. rock smeared; irreg qtz, py Sheared; Shear str ser; 2mm qtz, py MoS2; ser w/ ksp halo; bio → chl & Fresh; chl ksp fine h/l fr; str Fr, ser stkd MoS2; shear zone; crackled w/ str dry MoS2 also str ksp & qtz vning; 1mm qtz, MoS2, py; shear bx, ser MoS2; crackled infilled w/ qtz, MoS2, ser, kaol; chl gyp; dry MoS2; qtz w/ ksp halo cuts qtz, MoS2, also qtz-MoS2 w/ 1.5cm Ksp halo; chl Fr offset qtz MoS2; ser; qtz, MoS2; chl qtz, py MoS2; qtz, MoS2 1-2mm; str dry MoS2; ksp soaking Fr; 1cm qtz w/ MoS2, 1cm Ksp halo; dry MoS2; chl qtz, py gash filling; qtz, MoS2 1mm; irreg chl filling; chl h/l MoS2	Porphyritic Granodiorite Cont'd. 242.9 - 245.3 Strongly altered intrusive pinkish coloration due to 50% ksp alteration. Blotchy quartz grains (3mm) 10-15% are original quartz. fsp → clay & ksp mod - wk qtz - MoS2 wk. dissem py. Mod - Strong ser often bio & on Fr.	<1%	245.3	88		242.9	242.9	19; 0.01-0.02; 245.4
					Mod Str	py MoS2			245.4 - 245.8 - weaker ksp. alteration → 5-10% Some Fresh bio.		248.46	96		248.9		56; 0.03-0.08; 248.9
250					Mod	py MoS2			245.8 - 249.5 strong altern ksp → 30-40% bio → ser, fsp → ksp & clay (quartz) some strong str. dry Fr. MoS2. Shear zone - 246.0 - 246.6 - str MoS2 qtz vning & chl.		251.61	98		251.9		24; .01-; 251.9
									249.5 - 249.7 Short Section w/ Fresh bio.							
									249.7 - 253.9 Mod. - str. altern ksp. 30-40% ksp as halos to qtz py MoS2 vns bio → ser & chl. fsp → quartz clay & ksp.		254.1	98		254.9		23; .013-; 254.9
255																

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

CLAIM:
SCALE: 1cm : 1m
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N Chl/clay	quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	AVE. CORE REC'Y/HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
255–270					mod; Str	py – MoS_2; py – MoS_2; mod; mod; mod; py	4mm qtz, MoS_2, py; bio → chl, ser; irreg chl offsets MoS_2; lt greenish fsp → clay; chl, calcite irreg.; qtz, MoS_2 - 7mm qtz, MoS_2; good stk. py, qtz MoS_2; bio → ser; chl; 5mm qtz MoS_2 w/ksp; classem halo; ser, chl cuts 5mm; py; irreg chl; xeno. qtz, py, MoS_2; fresh bio & bio → chl ser; qtz, py, 94P MoS_2; chl; 6mm qtz, py; ser; 5mm qtz, py; ksp 1cm qtz, MoS_2 vn w/ ksp halo; chl; shear w/ 94P, ser; ksp, ser; dry MoS_2; smear py MoS_2 = 94P; py calc, ser & wk film MoS_2; MoS_2; 1mm qtz, py blebs; py, MoS_2 disseminated py; 7mm py, qtz offsets MoS_2-qtz; 7mm qtz, py, MoS_2 vn ser, ksp halo; qtz, ksp, ser 1cm. chl, 94P, MoS_2, 94P on Fr; 2mm qtz, MoS_2; py, qtz, 94P; 8mm qtz, MoS_2; 6mm qtz py w/ksp halo cuts qtz MoS_2 2mm. qtz, MoS_2 py 4mm.; 1.5 mm. qtz py MoS_2 cut by dry MoS_2 fr.; 2mm qtz MoS_2; 5mm qtz, py MoS_2 cuts; Fresh bio dry MoS_2; 2mm qtz MoS_2, ksp halo; shear; ksp halo w/shear	*Porphyritic Granodiorite Cont'd* 254.5 - 257.2 mod & str alter'd, total Ksp alteration ~20% (fsp → Ksp & clay) Ksp alter'n pervasive and as halos to quartz vns, clay after fsp is somewhat greenish. bio → ser & chl 257.2 - 261.4 Some fresh biot. coming in: total ksp alter'n weakens to ~ 10 - 15%. 261.4 - 262.1 - rock is sheared, strong slip at 261.4. Ksp alter'n ~ 50% str ser as veins/after bio. 262.1 - 264.8 mod & strongly alter'd. Ksp ~ 20% bio → chl & ser. 264.8 - 267.7 15 - 20% Ksp pervasive alter'n after fsp. some spotty fresh bio most bio → ser, chl fsp → Ksp & clay weak qtz, MoS_2 vning 267.7 - 268.5 Fresh bio., wk. Ksp alter'n → 5% oo Fr soaking		py ~ ½%	257.6 260.6 263.7 266.7 269.8	99.9 98 100 99.9 100	NQWL			48 28 18 15 25	0.05-.07 0.02-.038 .008-.02 .05-.015 .016-.034

257.4
260.4
263.9
266.4
269.4

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

PAGE NO.: 19 OF 31
CLAIM:
SCALE: 1cm : 1m
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

COMMENTS

AVE. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION: 270, 275, 280, 285

ALTERAT'N: chl/clay, quartz, sericite, ksp

FRACTURING: mod, str, mod, weak

MINERAL: MoS_2, py, py, MoS_2

GEOLOGY:

h/L chl, gyp Fr.
2mm qtz MoS_2
shear w/ .5cm gouge
1cm qtz MoS_2
Mostly w/ 5mm ksp halo
chl, ser, MoS_2 film
1cm qtz, py cut by chl, ser MoS_2 (film)
Str ser 2mm (shear)
4mm qtz, py, MoS_2
chl, calcite
qtz, MoS_2, py
gyp w/ MoS_2 dry
2mm qtz MoS_2
chl
4cm qtz, py
Shear @ 30°
dry MoS_2 – qtz, MoS_2
gyp
dry MoS_2 sheared
broken soft rock
chl, ser MoS_2 film
2cm qtz, py vn w/
7mm ksp halo MoS_2
3mm qtz py cuts 3mm qtz/py
py w/ 1cm ser halo
xenolith Fresh bio.
H/L ksp
2mm qtz MoS_2
wk. ksp h/L
1.1mm qtz, MoS_2
ksp h/L
Ep
qtz, MoS_2, ksp halo w/ disem MoS_2
4cm qtz, py ser
1mm qtz, MoS_2
6mm qtz MoS_2
chl, py
.5cm py, qtz w/
1cm. ser halo.
chl, ksp halo
4mm qtz w/
qtz, MoS_2 stk. w. wk MoS_2
wk ksp soaking
N.L.
5mm qtz cut H/L ksp
Fresh bio. broken
chl
4mm qtz, MoS_2
3mm qtz py
5mm qtz, py

Porphyritic Granodiorite Cont'd

268.5 – 274.8 Mod-str. alter'd intrusive
stronger ksp altern on shears w/ ser. 270.8 - shear
@ 274.0 str kool. of fsp

274.8 – 276.4 Shear Zone
str ksp altern → 50% pervasive
bio → ser., fsp → ksp.
Slips @ 50 – 30°

276.4 – 285.8 Fresh bio. coming in
Ksp altern weakens → 5% predomin.
as halos to quart vns and H/L soakings
quartz vning is mod. to wk. vns
do not carry a very high % of MoS_2
Rock is weakly alter'd wk fsp → clay.

SULPHIDES: ~ 1 %, ~ 1 %

DRILLING INTERVAL: 272.97, 276., 279.03, 282.09

% CORE RECOVERED: 95, 98, 94, 98

CORE SIZE: NQ WL

SAMPLE INTERVAL:

% REC'Y SAMP. INT.:

mineral'd struc. ESTIMATED % MoS_2:

22	.012 – .03
272.9	
23	.013 – .032
275.9	
30	.025 – .04
279.9	
13	.005 – .015
281.9	
17	.008 – .02
284.9	

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

CLAIM:
SCALE: 1cm : 1m
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N Chl/clay	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
285					Mod	MoS_2 Py		py, MoS_2 qtz; wk ksp; chl; py quartz; 2cm qtz vn, ksp, ser halo 1-2cm; str jt (slken) 2mm gouge; chl, ser dry MoS_2; qtz vn 5mm py MoS_2 w 1cm ksp halo; 6cm qtz, gyp; chl MoS_2; .5mm MoS_2 qtz; 1.3cm qtz wk ksp halo; gyp, py = bio→chl; chl perv. ksp; .5cm qtz, ksp halo	Porphyritic Granodiorite 285.8 – 288.0 Mod altered rock. str altered near large quartz vn at 285.5 and slip @ 285.6 (Ksp → 60%) Generally Ksp ~ 10%-15% bio → chl ± where more strongly altered bio → ser. fsp → clay ±	<1%	285.41	100	NOWL			10
											287.75	100				288.0
290					mod	Py		ser, py; silkd MoS_2, py; dry MoS_2; chl; gyp qtz, py MoS_2 bio→chl; qtz, MoS_2 & qtz; <1mm qtz, MoS_2; chl; qtz, MoS_2 py stkw; chl ksp; .5mm qtz, py MoS_2; chl; gyp cuts chl; str dry MoS_2; ksp; chl, gyp ser	288.0 - 290.6 wk Ksp ~ 10%, str ksp pervasive @ 289.7 caused by ksp halos from two closely spaced qtz veins. Str chl on Fr bio → chl & fresh		290.46	95				11
																291.0
					Weak.	MoS_2			290.6 - 291.6 Fresh bio., Ksp < 5% minor qtz-MoS_2 veins		293.83	100				26
																294.0
295					mod			chl; py qtz, MoS_2; dk xenolith; ksp 7mm qtz, py MoS_2; chl wk ksp halo; qtz w/ ksp halo; micro Fr. w/chl; .5mm qtz, py MoS_2; bio → ser pervasive ksp; micro Fr w/chl / qtz, mis	291.6 - 294.0 Section med stockwork with increase in ksp → 20% as halos on vns and H/L. Fr. bio → chl & ser. some fresh. Some dry Fr w/ MoS_2, fsp → clay & ksp	>1%		99				25
											296.08					297.0
					Strong			4mm qtz MoS_2 py; 3mm chl qtz; chl offset qtz w/ ksp halo; dry MoS_2	294.0 - 296.2 Gradual increase in fracturing & pervasive ksp alteration → 50% some xenoliths.							
300								chl Granophyre dikelet. 2cm. @ 50°; qtz, MoS_2 w/ ksp halo; chl, ser; 7mm qtz w/ 7cm ksp halo	296.2 – 300.0 Str ksp ~ 50% some dry MoS_2 Fr bio → ser. str. fracd. Sheared section		299.93	100				19
																300

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
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PROJECT: Porphyry Creek
DATE STARTED:
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TOTAL DEPTH:

PAGE NO.: 21 OF 31
CLAIM:
SCALE: 1cm = 1m
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

COMMENTS

AVE. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION	ALTERAT'N chl/clay	quartz	sericite	ksp	FRACTURING	MINERAL	GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED %	% MoS_2
300					mod - strong	py	str. Ksp; chl wisps; 3 mm qtz qtz, Ksphalo; irreg Fr fill Chl, cck.; 2mm qtz; qtz MoS_2 qtz; wk Ksp halos; str chl; 7mm qtz, MoS_2 py Ksp halo; dry MoS_2 slkds; chl granophyric irreg. cont.; 2cm qtz w/ wk ksphalo; 3mm qtz, MoS_2; chl	~ 5%	301.77	99	NQWL			17	0.008 - 0.08
									303.10	93				20	0.01 - .025
305					mod-strong	MoS_2	3mm qtz MoS_2 w/ wk Ksp halo; Ksp H/L; chl 1mm qtz, py w/ ksp; 1mm qtz. bio → b.o halo; 6mm qtz py Ksphalo; 4mm qtz MoS_2; 2mm qtz MoS_2 py; chl; str dry MoS_2; qtz w/ MoS_2; chl, 8yp; dry MoS_2; qtz, 8yp, dry MoS_2; on side Ksp; granophyr wk ksp; chl		306.60	115				25 + 4% 23/300	~ 0.2
					Strong	MoS_2 py	8yp chl alteri & dissem. MoS_2 & 8yp chl, MoS_2 sh.l. vnts.; dry MoS_2		308.60	95				27	.02 - .037
310					Strong	py	1.5cm qtz, py; chl Fr, splays; 4mm qtz Ksp halo; sheaus w/ dry MoS_2 @ 35° to C.A.	~ 1%	310.85	91				6	< 0.005
					mod	Elavite MoS_2	1cm qtz, 3mm Ksphalo; Fsp → clay (whitish.); shear 1cm bx; str dry MoS_2; chl; xenolith 3mm qtz py; sey 4mm qtz MoS_2; str MoS_2; str Ksp → 60% w/ qtz vns. Elavite		312.67	94					
315									314.25						

Porphyritic Granodiorite

300.0 - 306.6
weakening of Ksp alter'n, Ksp alter'n as weak Fr soaks & haloes to qtz vns (~20%) some Fresh biotite; Bio → chl. Fsp → clay (waxey green color)

306.6 - 307.8
Ksp alter'n decreases to < 5%
Fresh bio w/ some qtz vns

307.8 - 308
Str Ksp alter'n associated w/ halo to granophyre dikelet. MoS_2 dissem in Ksp halo. ~ 3-1% over 2.3cm

308.0 - 310.5
Moderate alteration, Ksp ~ 10%
Fsp → clay bio → chl.

310.5 - 312.0
Rock is sheared @ 35° to C.A. Str. Ksp alter'n → 40°

312.0 - 312.7
Fresh bio., wk Ksp as Fr & unhalos.
Fsp → Kaol (whitish)
@ 312.66 Shear w/ some bx.

312.7 - 315.0
Increase in Ksp alter'n between 314.8 - 315 → 60% & 2550C. qtz vining

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
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PROJECT: Porphyry Creek
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TOTAL DEPTH:

CLAIM:
SCALE: 1cm 1m
LOGGED BY: G.E. Norman

SEMA INDUSTRIES LTD.

SECTION	ALTERAT'N chl/clay	quartz	sericite	KSP	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
315					weak	MoS_2			*Porphyritic Granodioritic Cont'd*							
									315.0 - 317.0 Moderately fresh intrusive, fresh bio. <5% ksp altn, some fsp → kaol (whitish). Short sections with mod. stkw. but w/ low % of MoS_2.			100				
											316.00					
												99				12 / <0.05
															318.0	
					weak				317.0 - 319.0 Moderately altered, ksp → 10% fsp → kaol bio → chl. weak Fr.	~ 5%						
											319.13					
320					mod -	py - MoS_2										
									319.0 - 323.6 Moderately fresh, fsp → kaol whitish ksp weak <5%. Some barren qtz vns with wk. ksp halos, bio fresh			99				
											322.17					
															321.0	
																7 / <0.05
																14 / .05 - .015
									323.6 - 324.9 Moderate altn near wstkw at 324.1 also 6 cm of bx. ksp altn ~ 10%			100				
															324.0	
325					Strong											
									324.9 - 330.8 Moderately fresh intrusive <5% ksp altn, fresh bio. wk - mod qtz vning fsp → kaol. mod - wk.	~ 5%						
											325.22					
																16 / .06 - .016
												97				
					mod - weak	py - MoS_2									327.0	
																23 / .013 - .032
											328.37					
330															330.0	

Geology column (top to bright):
- qtz
- 94P
- xenolith
- 3mm qtz vns py MoS_2
- chl
- 3mm qtz vns MoS_2
- chl wk ksp halo
- 3mm qtz, py
- qtz w/ kaol halo
- shear minor gouge @ 60° to c.a.
- chl
- chl, 94P
- 1cm qtz, MoS_2
- 1mm qtz, 94P, py
- mind & disseminated py
- 2mm qtz
- 94P, chl
- Fr speckled w/ py
- 1mm qtz, py
- 3mm chl
- MoS_2, 94P
- 2mm qtz w/ wk MoS_2
- Fr w/ py ksp halo 1cm calc.
- ksp 2mm ser, chl
- ser, MoS_2
- bx 6cm — 2mm qtz, py, MoS_2
- tr MoS_2, 94P
- 1cm ksp halo
- 2mm qtz, py
- dry MoS_2
- chl, py
- 1.5cm qtz, py, MoS_2
- qtz, MoS_2 bio → ser.
- qtz, py MoS_2
- h/l ksp
- 4mm qtz ksp halo
- 3mm qtz py MoS_2
- qtz, MoS_2
- qtz, ksp - ksp bleaching
- 3mm qtz, py ksp halo
- cal dry MoS_2
- pink zeol.
- chl shear

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

PROJECT: Porphyry Creek
DATE STARTED:
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TOTAL DEPTH:

PAGE NO.: 23 OF 31
CLAIM:
SCALE: 1cm:1m
LOGGED BY: G. E Norman

SEMA INDUSTRIES LTD.

COMMENTS

AVE. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION	ALTERAT'N chl/clay	quartz	sericite	ksp	FRACTURING	MINERAL	GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
330					mod	Py MoS_2	qtz skw w/ MoS_2.	<1%	331.32	100	NQWL			20 .01-.025 333.0
					strong		chl, MoS_2 str. dry MoS_2 3mm qtz, py MoS_2 chl, ser. chl. 3mm qtz, py MoS_2 chl 6cm qtz w/ ksp halo			99				
					mod	Py	chl qtz, MoS_2. chl, ser 5mm qtz, MoS_2. MoS_2, qtz ser, MoS_2. chl 2mm qtz, py MoS_2		344.34					12 <0.005 336.0
335					strong	MoS_2	str shear zone @ 10°. some bx str MoS_2 along shear. mod-str ksp chl crackle frs. 2.5 cm qtz, py MoS_2 str MoS_2, qtz 1cm qtz w/ksp halo 3mm qtz MoS_2 chl, qtz w/ksp halo. 5mm qtz, 2cm ksp halo chl, py, somewhat sheared qtz MoS_2 3-7mm qtz py MoS_2 7mm qtz w/ MoS_2 clean core axis (mod FeOx coat) bio → chl fsp → clay 1cm qtz, MoS_2 @ 30° C.A. chl str dry MoS_2 & shear qtz MoS_2 4mm qtz MoS_2 2m ser, py ksp halo		332.91	100				39 .038-.055 337.0
340					mod				340.99	98				24 .015-.033 342.0
					strong	MoS_2			343.51	97				32 .036-.045 345.0
345														

Porphyritic Granodiorite Cont'd

330.8 - 331.3
section of str clay alteration. although fresh bio. some qtz vning. w/ ksp halos.

331.3 - 332.3
Increase in ksp altern > 5%.
bio → chl & fresh.
fsp → clay.

332.3 - 333.0
Shear @ 332.3 @ 18° w/ str chl on micro fractures Ksp ~15% bio → chl.

333.0 - 336.8
Mod. - wk. ksp altern ~10% - 15%
qtz vns w/ ksp halos
Some fresh bio. & bio. → chl
fsp → kaol & Ksp

336.8 - 339.0 Shear zone @ 10° to C.A.
str dry MoS_2 & qtz MoS_2 vns.
rock str. crackled.
Some brecciation. bio → ser
fsp → ksp & clay

339.0 - 342.3 Gradual decrease in chl altern from shearing, bio. becomes fresh @ 342.3 another small shear @ 341.0 has chl & ksp altern.

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

PROJECT: Porphyry Creek.
DATE STARTED:
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TOTAL DEPTH:

CLAIM:
SCALE: 1cm: 1m
LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N Chl/clay	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
345																
350					weak to moderate	MoS_2										
355					mod											
360					mod											

AVE. CORE REC'Y/HOLE

Comments:

fresh bio.
3cm dikelet B.&F.P. see descrip below
4mm qtz MoS_2 - 2mm Ksp halo
chl, ser
Shear chl, ser MoS_2.
7mm qtz vn w/ MoS_2 py @ 15UCA
str Ksp assoc. w/ qtz vn.
qtz, MoS_2
3mm qtz, w/ 1mm ksp halo.
wk Ksp fr halo.
2mm qtz py
2mm qtz, MoS_2.
1mm qtz, MoS_2, py
qtz, py MoS_2 Ksp halo
2cm qtz, ser, py
wk Ksp
4mm qtz
py
qtz py
qtz MoS_2 cuts dike
4mm qtz, MoS_2 down C.A.
slkd. MoS_2 ⊥ to slope direction
irreg qtz MoS_2 off side
chl ser bg clay ser Fr.
slkd py MoS_2
2mm qtz, MoS_2 w/ Ksp halo
2cm qtz, py w/ MoS_2 at edges.
Ksp ser fsp → Kaol
5-7mm qtz, py MoS_2 cuts
2mm qtz, Ksp py
1mm qtz, py Mt.
drg MoS_2, py ↓ Ksp
wBS fault 1.5cm crushed & cemented bough. str Ksp 70%
ser bio → ser
vvsdg qtz w/ str Ksp
qtz, py

Porphyritic Granodiorite Cont'd.

342.3-352.2 Moderately Fresh rock.
Fresh bio. coming in. fsp → Kaol"
Ksp < 5%.
Some 1cm qtz vns with good MoS_2 but small angle to core axis.

352.2-352.4 Grey Biotite Quartz Feldspar Porphyry
Grey siliceous dike w/ 10% 1-3mm quartz eyes, and 15% whitish 1-3mm anhedral feldspar grains and 1% 1mm biot. set in a grey siliceous ground mass.

352.4-355.7
Moderately Fresh intrusive, fresh bio.
Some qtz vns rundown C.A. ie one 352.65-354.
Some w/ weak Ksp halos, wk fsp → Kaol.

355.7-356.8
Moderate-str fsp → clay.
bio fresh

356.8-358.0
Moderately Fresh
bio fresh fsp → Kaol"

358.0-360.0 Str Ksp → 70% pervasive
bio → ser.

Drilling interval	% Core recovered
346.56	100
349.61	100
352.65	100
355.70	99
358.75	94

Sulphides: < ½ %

Core size: BQ

Estimated % MoS_2	Sample interval
22	0.012-.03
5	<0.05
28	.02-.038
16	.006-.016
8	<0.05

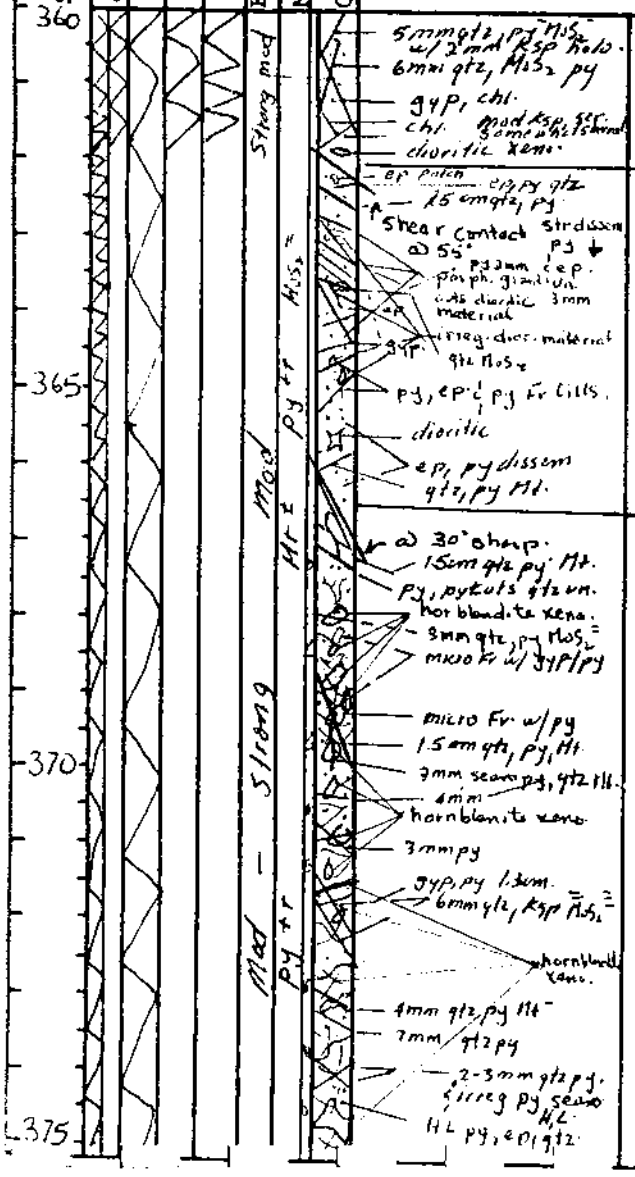
HOLE NO.: 82-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

CLAIM:
SCALE: 1cm : 1m
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

ALTERAT'N: Chl/clay, quartz, sericite, KSP
FRACTURING
MINERAL
GEOLOGY
SECTION
COMMENTS
AVE. CORE REC'Y/HOLE
DESCRIPTIVE GEOLOGY
SULPHIDES
DRILLING INTERVAL
% CORE RECOVERED
CORE SIZE
SAMPLE INTERVAL
% REC'Y SAMP. INT.
mineral'd struc. ESTIMATED % MoS_2



Porphyritic Granodiorite

360.0 – 362.1 Varing amounts of ksp alkim assoc. w/ qtz vns. & fr. Some fresh bio. fsp → kaol + ksp.

362.1 – 366.55 Hornblendite (Takla Volcanics)

Dark greyish green hornblend Takla Volcanic containing a dence interlocking grains of hornblend - augite. Contains ~ 10-15% of dissem. Fr py. Moderate - strongly magnetic with magnetite as dissem and as fracture fills w/ qtz, py. Epidote & chl is abund. as fracture fillings. Irregular wisp dioritic material is abundant and is cut by 1cm porphyritic granodiorite dikelets.

366.55 – Hybrid Zone of Hornblendite & Fine Grained Quartz Microporphyry.

- Quartz Porphyry - Whitish grey colored rock - fresh with 10% 1-2mm biotite flakes set in a f-g groundmass of quartz and feldspar. The intrusive material has invaded the Takla Volcanics near its contact with the volcanics as though it had a force full intrusive history of emplacement. Some sections appear to be a hybridization of intrusive and volcanic material.

Sulphides	Drilling interval	% Core recovered	Core size	Sample interval	% Rec'y samp. int.	Mineral'd struc. estimated % MoS_2
< 1%	361.60	90	NQWL	362.0		<0.005
10%	364.85	100		365.0		<0.005
	367.89	100		368.0		<0.005
	370.94	100		371.0		<0.005
5%	373.99	100		374.0		<0.005

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

PAGE NO.: 26 OF 31
CLAIM:
SCALE: 1cm: 1m
LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

COMMENTS

AVE. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION	ALTERAT'N chl/ep/clay	quartz	sericite	Ksp/bio	FRACTURING	MINERAL	GEOLOGY	COMMENTS	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % Mo S_2
375					Strong-mod	Py ++ Mt			10%		97				<0.005
								376.9 - 374.1 Grey Biotite Quartz Feldspar Porphyry. Grey dike w/ 15% whitish ovoid 4mm fsp phenos. 10% 1-6mm biotite, 5% 1-5mm qtz phenos in f-g siliceous grey groundmass.		377.04			3770		377.04
											95				<0.005
380					Mod	Cpy-Mt Py ++				380.09			3800		380.09
								378.55 - 379.7 Porphyritic Granodiorite Moderately Fresh - fresh biot. Some fsp → clay some qtz Mt, Vns. Short section Quartz Micro porphyry 378.85 - 378.95			100	NQ3L			5 <0.005
										383.23					383.23
								379.7 - 388.0 Hybrid Takla Volcanics / Quartz Micro porphyry. Section of hornfels and Microporphyry with hybrid sections. There is a gradational zone to more typical Quartz Micro porphyry @ 388. Small 6cm dikes of Porphyritic Granod. @ 380.6 - 380.67 & 380.8 - 380.86. Dikes appear to later than Q.P. as fractures are cut by the dikes cutting QP.	10%		98				1 0.005
										386.18					386.18
385					Strong - mod	Py ++					97				4 0.005
								388.0 - Quartz Micro porphyry		389.23					389.23
390															

- black second bio is consip, the fine bio in matrix is primary or secondary ??

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

CLAIM:
SCALE: 1cm:1m
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N Chl/clay	Quartz	Sericite	KSP/bio	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
390–405					Strong; Strong; Mod - Strong	Mt-; py tr; py tr; py tr; MoS2		xenolith; 1mm qtz, MoS2; micro Fr w/bio; 2mm qtz cut bio Fr; pinky ksp altern; qtz, py @ cont.; qtz ksp; 1.5cm py zone ep; hornfels xeno; 1mm py; qtz py blk fracs/ py cnt b.c.?; 2cm granophyre; 5mm qtz, py; 3mm py, qtz; py; ser bio; str second bio Micro Fr; wk KSpink tinge; qtz MoS2; hornfels xeno; py <1mm seams; qtz py ± py. vnlts.; qtz stkw. v wk MoS2; <1mm py seams; h/L py; str sec bio patches; @ 50° sharp; py ± ep. qtz; 4mm qtz, py; micro Fr @ 40° sharp; 2mm qtz MoS2 w/bio; 3mm qtz MoS2 stkw; 1cm qtz py bio; ksp halo	Quartz Microporphyry Cont'd. Grey Biotite Quartz Feldspar Porphyry dikes @ 391.26 – 391.7, 391.97 – 392.02, 392.2 – 392.48 and 392.92 – 393.15. Contact @ ~ 30% see prev. description dikes are fresh although cut by minor MoS2 py qtz vns. 393 – 397 Quartz Microporphyry with hornfels xenoliths. 397.5 – 398.4 – Quartz Microporphyry wk ksp altn, str bio/sec. some qtz MoS2 vns. 398.3 – 398.8 hornfels xenoliths 399.0 – 399.5 hornfels xenolith. 400 – 401.4 – Strong secondary bio. 401.4 – 403.23 Hornblendite Strong py as dissem ! Fr w/ ±ep ± quartz. 403.23 – 409.32 Quartz Microporphyry Mod- to wk ksp altern 10 – 15% from contact ! weaking to neglible @ 407.5. also some sections w/ mod qtz MoS2 stockwork.	10%	392.28; 393.33; 398.37; 401.42	100; 100; 100; 98	CORE SIZE: WL3	393.0		6; 3; 6; 4
										10-15%		100		403.0		11
										1%	404.97					404.97

COMMENTS

AVE. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SULPHIDES

DRILLING INTERVAL

% CORE RECOVERED

CORE SIZE

SAMPLE INTERVAL

% REC'Y SAMP. INT.

mineral'd struc. ESTIMATED % MoS_2

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

CLAIM:
SCALE: 1cm = 1m
LOGGED BY: G. E. Norman

BEMA INDUSTRIES LTD.

ALTERAT'N: chl/clay, quartz, sericite, ksp/bio
FRACTURING: mod-str; wk; mod; mod-str; mod-str; mod-str
MINERAL: MoS2, py; MoS2, py; MoS2, py; MoS2, py; MoS2, py; MoS2, py
GEOLOGY

COMMENTS

AVE. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION: 405, 410, 415, 420

2mm qtz MoS2
5mm qtz ksp halo.
chl ksp, MoS2.
qtz MoS2 stkw. patches sec. bio.
h/c qtz vns
5mm qtz bio. py
1mm qtz, MoS2.
py bio w/ wk irreg ksp.
qtp, MoS2 patch sec bio.
qtz MoS2
qtp
bio qtz MoS2 cuts bio bw
1.5 qtz, bio w/ patches sec bio
1mm qtz MoS2.
qtp
bio qtz, MoS2
1cm P.G. vnlt.
3mm qtz.
patchy sec. bio
qtp
2cm qtz MoS2 w cont.
20° sharp sec. bio w/ Fl.
2mm qtz wk wisp ks offset
2 mm qtz, MoS2 qtp
sec. qtp bio m qtz MoS2
sec. bio.
60° 1mm qtz py MoS2
h/c py wk streaky ksp.
1mm qtz py MoS2
bio clot.
qtz, bio, bio py
P.G. w 80° sharp
2cm qtz, py MoS2 w 85° sharp
stringy qtz py mon
py seams
py qtp
15cm qtz, py bio
qtz, py
irreg d.b. material (epi)
py seams h/c ksp
qtz, py 3-5 mm
py, qtp.
3cm qtz py
py vnlt. diagram
irreg d.b. material
1cm qtz, py MoS2 Mt
15cm Quart Microporp
qtz, MoS2, py

Quartz Microporphyry Contd

409.3 - 409.67 Porphyritic Granodiorite

Fresh intrusive rock - cuts quartz microporphyry as qtz vns cutting the latter ~~da~~ not cut porphyritic Granodior

phenos { bio - 15-20% 1-3m → py (~ 2-3%)
qtz - anhedral 2-7mm 10%
fsp - 5% ~ 5mm

ground mass 65% quartz, fsp.

409.67 - 410.85 Quartz Microporphyry

410.85 - 411.32 Grey Biotite Feldspar Quartz Porphyry.
Fresh, cut by P.G. vnlt. 15%
anhedral whitish fsp ~ 5mm - 7mm
1-2% 3mm qtz eyes, grey matrix of fine bio, qtz, fs.

411.32 - 413.43 Quartz Microporphyry

413.43 - 413.72 Porphyritic Granodiorite

413.72 - 415.17 Quartz Microporphyry

415.17 - 415.61 Porphyritic Granodiorite

SULPHIDES: 1-2%; 2-3; 1-2; 1%; 1%; 10%

DRILLING INTERVAL: 407.52; 410.67; 413.61; 416.46; 419.71

% CORE RECOVERED: 97; 100; 99; 99; 99

CORE SIZE: NQ

SAMPLE INTERVAL: 406.0; 409.0; 412.0; 415.0; 418.0

% REC'Y SAMP. INT.:

mineral'd struc. ESTIMATED % MoS_2: 27 .017-.037; 407.52; 14 .005-.015; 410.57; 14 .005-.015; 413.61; 12 .005; 416.46; 4 <.005; 419.71

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK
DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

PAGE NO.: 29 OF 31
CLAIM:
SCALE: 1cm 1m
LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N Chl/clay	Quartz	Sericite	Ksp/bio	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	AVE. CORE REC'Y/HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
420					Mod-Str.	py Mt		415.61 – 432.52 Hornblendite 3cm dikelet of Porphyritic Granodiorite @ 416.35 Hornblendite – strong disem & fills of py, Mt – wispy, irreg intrusive material sometimes ep same garnet ep. veins.	10%		100	NQWL			0
											422.76			421.0		422.76
425					Mod-Strong	Mt py						99				1 .005
											425.61					425.61
								429.0 – 430 Hornblendite somewhat brecciated with white intrusive material.				95				4 .005
										10%	428.66					428.66
430								432.52 – 433.10 whitish dike – quite siliceous white quartz matrix w/ high % of mafics becomes darker & wood lower contact.				100				2 .005
											431.90					431.90
					Mod-Strong	Mt py						98				0
435											434.95					434.95

GEOLOGY column (top to bottom):
1cm py, ep, qtz, Mt.
irreg. dio material + ep
py seam / disem
7mm py
irreg ep / garnet
py, qtz
ep - dioritic material
6mm py, qtz.
hlz py, ep
ep, py veins
dio material
py veins < 1mm
ep hlz.
ep, py hlz
2cm, py, qtz bio.
py hlz & disem
ep
py fr fills
dio material
2cm, qtz, py
ep
py 1cm py
ep py, qtz, Mt
1-2mm py, qtz.
hlz qtz - py
Mt, py irreg, ep'd intrs. mat
ep
disem py, Mt
irreg dike (intrusive material whitish)
py disem Mt
qtz
irreg whitish intrus material ep'd.
py
6cm qtz, py bio veins
wispy intrusive
ep veinlets
qtz py Mt
intrus material
hlz py disem
ep, garnet qtz py.
@ 40°
5mm qtz (c) cont.
py veins & disem
2.5 py, qtz
2cm qtz, MoS2 py.
5mm qtz

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

PAGE NO.: 30 OF 31
CLAIM:
SCALE: 1cm 1m
LOGGED BY: G.E. Norman

SEMA INDUSTRIES LTD.

COMMENTS

AVE. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION	ALTERAT'N ep/clay	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
435					mod.	cpy-py		2.5cm py qtz, Mt py & qtz py vns intrusive material ep. qtz, py, cpy - Mt. intrus material 2cm py. 3cm qtz, py - cpy Mt. calcite irreg. foled qtz, Mt. foliated hornbld. foln. @ 50° to CA. irreg seams py hbl. intrus. strongly dissem. py, Mt, qtz → ep garnet irreg py 1cm ep, garnet	10%	436.	100	NQ WL			1 / 0.005 / 438.10
440					mod -	py Mt		1cm ep, garnet 4mm py Mt. hbl py & irreg patches 2.5cm py qtz - Mt. py. hbl py seam & dissem. 2cm qtz, py - Mt. irreg dio → ep py Mt. ep, py. 1cm ep.	10%	441.05 441.05	97 100		440.0 445.0		0 0	441.05 444.10
445					mod	py Mt		5th hbl py ep py Mt irreg seams 4mm py Mt qtz or edge sep. strong dissem. py qtz & hbl p py ep. hbl py 5mm qtz, py Mt ep 2mm py. hbl ep, py py ep, garnet hbl 1mm py. 2mm py Mt 2mm py	10%	447.14	97				0	447.14
450															

Hornblendite Cont'd.

Strongly py hornblend. to py as dissem or hbl fracture fills on with qtz, ep Mt. rom qtz, py Mt common, ep garnet vns also common Mt finely dissem'd/qtz py.

437.5 - 438.4 Foliated section, quite limey - ?

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

PAGE NO.: 31 OF 31
CLAIM:
SCALE: 1cm: metre.
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N Chlor/clay	quartz	sericite	ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % Mo S_2
450					Mod.	Mt		gyp/lign/ten py/alger; 3mm ep, py qtz.	1/2 - 15 %	450.19		NQ WL			450.19
								2-3mm py; 1mm py; hil py; py vnlts & dissem.			100				0
								2mm gyp; 6cm qtz vn.							
								v.str py 15-20% dissem; blebs; skw py vnlts; irreg white intrusive w/ bio.; py, Mt; py gt.		453.24					453.24
455						py Mt		1cm qtz, py Mt.			95		454.2		0
								py Mt. intrusive material with 2cm dikelet w/ gl, ep; ep.							
								py, vnlt. str. dissem.		456.29					456.29
								457.2 end of hole.			100				0

PAGE NO.: 17 OF 32

CASING COLLAR ELEV.:

GROUND ELEV.: 1573 m

COORDINATES: 9+845 N. 9+726 E.

INCLINATION: 60° @ collar
-68 @ 242 m
-61.5 @ 350.5 m
62° @ 457.2 m

BEARING: 270°

PROJECT: Porphyry Creek

DATE STARTED: August 2 1982

DATE FINISHED: August 8 1982

TOTAL DEPTH: 457.2

HOLE NO.: 81-3 Extension

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MoS2	ASSAY			
240									
242.9	245.9	47301			.041				
245									
246.9	248.9	47302			.053				
248.9	251.9	47303			.036				
250									
251.9	254.4	47305			.024				
255									

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY			

PAGE NO.: 18 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 81-3

REF. TO CLAIM CORNER:

SCALE: 1 cm. 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MOS4	ASSAY			
255									
2549	2579	47305			.043				
2579	2609	47306			.040				
260									
2609	2639	47307			.030				
265	2639	2669	47308			.025			
2669	2699	47309			.036				
270									

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 19 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 81-3

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NEEMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% Mo	ASSAY			
269.9	272.9	47310			.024				
272.9	275.9	47311			.047				
275.9	279.9	47312			.054				
279.9	281.9	47313			.033				
281.9	284.9	47314			.023				

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

270

275

280

285

PAGE NO.: 20 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 81-3

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY % MoS2					DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
285																			
285	288	47315			.023														
288	291	47316			.015														
290																			
291	294	47317			.020														
295																			
294	297	47318			.038														
297	300	47319			.025														
300																			

PAGE NO.: 21 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 81-3

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MOS2	ASSAY				DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
300	303	47320			.033														
303	306	47321			.031														
306	309	47322			.077														
309	312	47323			.016														

300 305 310 315

PAGE NO.: 22 OF 31

PROJECT: PORPHYRY CREEK

HOLE NO.: 81-3

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED:

REF. TO CLAIM CORNER:

COORDINATES: N. E.

DATE FINISHED:

SCALE: 1cm : 1m

INCLINATION:

BEARING:

TOTAL DEPTH:

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MoS2	ASSAY			
327	330	47324			.060				

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 23 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 81-3

REF. TO CLAIM CORNER:

SCALE: 1 cm. 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MOS2	ASSAY			
330	333	47325			.033				
333	336	47326			.028				
336	339	47327			.066				
339	342	47328			.020				
342	345	47329			.071				

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

330 335 340 345

PAGE NO.: 24 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 81-3

REF. TO CLAIM CORNER:

SCALE: 1cm : 1m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MOS2	ASSAY			
345	348	47330			.069				
348	351	47331			.011				
351	354	47332			.055				
354	357	47333			.048				
357	360	47334			.025				

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

345

350

355

360

PAGE NO.: 25 OF 31

PROJECT: PORPHYRY CREEK

HOLE NO.: B1-3

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED:

REF. TO CLAIM CORNER:

COORDINATES: N. E.

DATE FINISHED:

SCALE: 1cm : 1m

INCLINATION:

BEARING:

TOTAL DEPTH:

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MoS2	oz/T Au	ASSAY		
360									
360	362	47335			.044	.003			
362	365	47336			.005	.003			
365									
365	368				.013	.003			
368	371				.020	.003			
371	374				.021	.003			
375									

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 26 OF 31

PROJECT: PORPHYRY CREEK

HOLE NO.: 81-3

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED:

REF. TO CLAIM CORNER:

COORDINATES: N. E.

DATE FINISHED:

SCALE:

INCLINATION:

BEARING:

TOTAL DEPTH:

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY o/o MOSE	ASSAY OZ/T AU			
374	377	97340			.015	.003			
377	380	97341			.010	.003			

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 27 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 81-3

REF. TO CLAIM CORNER:

SCALE: 1cm:1m

LOGGED BY: G.E NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MOS2	oz/T AU	ASSAY		
390	393	47551			.012	.033			

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

390

395

400

405

PAGE NO.: 28 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 81-3

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MoS2	oz/T AU	ASSAY		
405'									
403	406	47342			.033	.033			
406	409	47343			.026	.003			
410									
409	412	47344			.017	.003			
412	415	47345			.020	.003			
415'									
415	418	47346			.012	.003			
420									

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY			

PAGE NO.: 29 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 81-3

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MOS2	OZ/T ASSAY AU			
418	421	47347			.014	.003			

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

420

425

430

435

PAGE NO.: 30 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: E1-3

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY MoS_2				
435									
440									
440	443	47552			.005	.003			
445									
450									

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 31 OF 31

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: X. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 81-3

REF. TO CLAIM CORNER:

SCALE: 1cm: 1m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% ASSAY MOS2	OZ/T ASSAY AU			
450									
455									
454.2	457.2	47553			.006	.003			
	457.2				END	OF	HOLE		

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

HOLE NO.: 82-6
COLLAR ELEV.:
COORDINATES: 9+680 N. 10+120.5 E.
INCLINATION: -55° collar, -50° @ 614.8m
GROUND ELEV.: 1,390m
BEARING: 243°

PROJECT: Porphyry Creek
DATE STARTED: August 9, 1982
DATE FINISHED: August 31, 1982
TOTAL DEPTH: 777.71

PAGE NO.: 1 OF 52
CLAIM:
SCALE: 1cm : 1m
LOGGED BY: G. E. Norman

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	AVE. CORE REC'Y/HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
0						0-17.37 Over burden								
5														
10														

HOLE NO.: 82-06
COLLAR ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:
GROUND ELEV.:

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

PAGE NO.: 2 OF 52
CLAIM:
SCALE: 1cm: 1m
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

COMMENTS

AVE. CORE REC'Y/HOLE

SECTION	ALTERAT'N chlp/clay	quartz	sericite	ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS2
15									Overburden Contd							
								limonite. py one definite contact or alteration?	17.37-17.70 Fine & Medium Grained Diorite.		17.37					
								1mm qtz limonite chl Fr / chl mafics	17.70 - 18.80 Grey Feldspar Microporphyry Dike / Grey Rhyod. Grey colored rock. 30% microfeldspar phenocryst ~1mm max. odd euhedral lath to 3mm / anhedral grains to 4mm, fine chl mafics. 5-10% <1mm. Grey siliceous ground mass. Broken rock. also Grey Rhyodacite - f-g more siliceous.			38				
20								Hornblendite Fragment hornblende / porphyry dike.	18.80 - 19.4 Fine Grained Dark Andesite Dense f-g andesite, strongly broken rock		20.12					
					Strong			@ 45° ep. py. ep. limonite	19.4 - 20.1 Grey Feldspar Micro porphyry			78				
								6mm qtz, py, ksp	20.1 - 20.35 Hornblendite. 20.35 - 20.75 Hornblendite fragments / Feldspar Porphyry dike.		22.40					
											23.17	73				
								limonite wk chl / limonite.	20.75 - 23.62 - Andesite - Rhyodacite Feldspar Porphyry 30% whitish fsp phenocrysts → 1cm. oblong & rectangular (sub anhedral) grey greenish groundmass w/ quartz / fsp / fine chl mafics. / 1-3% hb laths. → 1cm (1mm wide) 1% sparse qtz grains. lower contact broken strong broken Fr.		23.62	66		24.0		
25					Strong	MoS2 py.		limonite/chl minor py.				32				
								broken qtz vn. limonite w/ py! Trace MoS2 1cm qtz trace MoS2 4cm qtz, chl = trace			26.57					
								chl minor py. MoS2	23.62 - 28.65 Grey Siliceous Rhyodacite / Grey Feldspar Por. Strongly broken rock. appears to be two rock types, one similar to above dike, second one more siliceous f-g / siliceous. definite contact @ 28.65.		27.43	39		27.0		
								chl			28.45	52				
								contact fined. Fault @ 85°. chl.	28.65 - Grey Feldspar Microporphyry							
30																

HOLE NO.: 82-6
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

PAGE NO.: 3 OF 52
CLAIM:
SCALE:
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

COMMENTS

AVE. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

SECTION	ALTERAT'N (Calcite, Chlorite, Quartz, Sericite, Kspar)	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
30					~ highly broken 5-1 cm fragments	Contin – 31.80 Grey silicious rhyodacite/grey micro feldspar porphyry. - highly broken.		30.46	79				
					~ 5 cm chl sh. bx w/ 3 2cm bands py.	30.45 vague contact rhyodacite/grey feldspar porphyry		31.07	46				
					~ chl sh.	Kspar alter. 31.40 → 32.40 20-30% Kspar flood. → strong shear zone 32.35 – 33.40		32.61	76				
					~ chl gouge (40cm)	chl gouge 32.80 – 33.22, 33.30 – 33.40		33.22	79				
					~ chl gouge. (40cm)	33.75 Kspar - qtz - sm (1cm) @ 40°, 34.05 Kspar qtz - 5mm @ 20°							
					Kspar, qtz (2cm)	33.40 – 34.40 heat zone 1cm spaced							
					qtz	34.45 – 55 sh zone chl gouge.			68				
35		5-1mm			~ chl gouge sh 10cm.	Dioritized volcanics contin							
					~ chl, ep.	35.30 – 35.40 feldspar microporphyry, 20% .5-1mm plag, biot 10% (0.2mm), frag hbl+k. groundm – M gy silic.		35.66					35.66
		m			~ ep, py.								
		s			~ ep, py				88				
		m								NQWL			
		5/2			~ ep, py, MoS_2			38.71					38.71
40									60				
					~ ep, py.			39.93					
		8/0							92				
					~ ep, py			41.76					41.76
					~ ep. py.	clay altered. 44.30 – 44.81 f.gr. white granitic rock vague .5mm clay alter plag 10%, .5mm biot 10%, frag hbl, tr 80% - related to feld. microporphyry			89				
45								44.81					44.81

HOLE NO.: 82-6
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

PAGE NO.: 4 OF 52
CLAIM:
SCALE: 1cm : 1m
LOGGED BY: P. Romard

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N (Ep Chl, Clay, Quartz, Sericite, Ksp)	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
45–50		3, mod, 5, mod-Stron, 5-7 cm, Moderate – Strong		ep, ep, ep, ep, ep, ~qtz, py (1cm), cal, py (1%) 80°, rhyodacite dike strength 50°, cal, py (2%) 85°, ep, py, calcite, amph/pyroxene alteration, py (2mm x 2mm), ep, py, MoS_2, py, ep, py (1mm), fault gauge zone, ep, qtz, ep, chl, sample contact, 57-58 cm, calcite veins, py, py (6mm x 4mm), ep, py, 57-58 very poor recovery, ep, py, 70° & 50°, py 2mm, calcite vein with ep. halo 10 mm wide at 50°, ep		47.85	90, 88	NQWL	50.0		47.85
50–60								50.29, 98, 51.51, 86, 53.36, 83, 55.13, 92, 56.51, 28, 60.05		53.0		

45 – 50.68 Dioritized Volcanics
Contin. – dk green – light green, hornblende-chl (1mm) 40% – 50% – 60% mixture feldspar – epidote flooding 5%

feldspar microporphyry – irregular veins + masses. 1+ – m.qz, 20% 1mm felt, chilled s/h ground. (probably related to granitic clasts altered mass with stopping texture low in hole @ 300 m)
@ 45.90 – 46.25° @ 20°-70°, 47.65 1cm @ 40°, 48.0 (cm) @ 70°, 48.07 (1cm) @ 90°, 48.40 – 60 @ 70°, 48.05 (1cm) @ 80°, 48.90 – 48.95 @ 70°, 49.0 – 49.0

SULPHIDES: <1% ; 2% ; .5-1% ; 1%

50.40 – 50.68 Rhyodacite dike
- grey
- fine grained with 2mm x 3mm plagioclase phenos
- small traces of dike visible to 51.3
- dike cuts at 30 – 60°

SULPHIDES: ½-1%

50.68 – 60.00 Dioritized Volcanic or Sub diorite
- medium grained mottled grey green
- 50% green amphiboles or pyroxenes set into a grey white ground mass of plagioclase (50%)
- epidote alteration is pervasive, replacing plagioclase as ground mass, also present on fractures
- patches of amphibole and pyroxene alteration 75cm x 50 cm
- py is disseminated throughout and present in larger quantities (up to 10%) on fractures and as complete fracture filling (up to 3mm wide)

SULPHIDES: 1 – 2%

HOLE NO.: 82-6
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

CLAIM:
SCALE: 1cm. 1m
LOGGED BY: P. Romard

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N: Sep. / clay	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % Mo S_2
60								py, ep; cal, ep; ep, py; ep 3mm, 40°; py 5mm, 70°; cal, py, 2mm, 15°; amphibole/pyroxene alteration patches; Shear Zone - massive py (2mm X's) - zones up to 1½ cm wide; Feldspar qtz micro porphyry dike - 60°; cal, py to 30% on fracture surface; cal, py, 5mm 60°; cal, ep; ep, py 75° some 2mm amph. x's on fracture; amph/pyroxene alt. patches; cal, py, MoS2 <1% - 2cm wide sharp at 55° - py - massive - mostly calcite; fractures at 70° barren; ep, py 65°; Fsp, Qtz Micro Porphyry Dike; ep 75°; Fsp, Qtz, Micro Porphyry Dike - 60°; cal, py 75° - zeroliths 3cm x 4cm amp/pyrox, ep; py 85°; cal, py; Fsp, Qtz Micro Porphyry Dike	60.0 -63.1 Dioritized Volcanic or Sub Diorite cont - epidote alteration still pervasive but not as frequent blotching as previous 3 meters - around some fractures there seems to be a leaching of mafics leaving a leucocratic halo of plagioclase varying from 1-2mm in width - py still diss. throughout, concentrating in and around fractures	1-2%		60.05; 93; 94; 63.09; 85	NQWL			
					Strong Mod				63.1 - 64.0 Shear Zone - py dissemination to 3% - amphibole/pyroxene alteration increased across zone dropping back to 30% at either end	2-3%	64.41					
65									64.60 - 64.92 Feldspar Quartz Micro Porphyry Dike - fine grain grey to grey white - feldspar (plagioclase) phenos to 1mm, 25% - quartz phenos not as common but 1mm, 10% - sharp contact with Sub-Diorite at 60° - disseminated py throughout - moderately fractured with increase Py on fractures	.05 - 1%	66.K					
70					Moderate				64.92-70.32 - Dioritized Volcanic or Sub Diorite Cont 70.32 - 70.71 - Feldspar Quartz Micro Porphyry Dike 70.71 - 71.80 - Dioritized Volcanic or Sub Diorite 71.80 - 72.00 - Feldspar Quartz Micro Porphyry Dike - some Ksp alteration 72.00 - 72.60 - Dioritized Volcanic or Sub Diorite 72.60 - 72.85 - Feldspar Quartz Micro Porphyry Dike 72.85 - 74.52 - Dioritized Volcanic or Sub Diorite - epidote alteration and amp/pyrox alteration increasing to where rock is nearly a hornblendite - still some plagioclase remaining 30-50% 74.52 - 74.57 - Feldspar Quartz Micro Porphyry Dike - vague contact angle - small 2-6mm zeroliths of amph/pyrox	1-2%	70.71; 72.85	92; 85; 85; 74.52				
75																

HOLE NO.: 82-6
COLLAR ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:
GROUND ELEV.:

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

PAGE NO.: 6 OF 52
CLAIM:
SCALE: 1cm:1m
LOGGED BY: P. Romard

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N: Clay / Quartz / Sericite / Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
75		Mod → Strong		py 1mm 45°; amp/pyrox patches; cal. 80°; hbl - 60°; ep; ep, py, 3mm, 75°; band of fine grain amph/pyrox 80° - py at outside contact 1-2mm	75.00 - 78.25 Dioritize Volcanic or Sub Diorite - more frequent patches of amp/pyrox alteration 77.2 - 77.6 - heavy alteration (amph/pyrox) to a 78.90-80.1 dark green, fine grained Hornblendite or andesite - sharp contact at 80° maybe a dike	1-2%		84 76.81	NQWL			
				py; grey fsp. micro porphyry	78.25 - 79.00 Feldspar Micro Porphyry Dike - grey fine grained - plagioclase phen's 1mm - some minor Ksp alteration - disseminated py and py on fractures	<1%		79 79.10				
80		Mod		amp/pyrox alter. patches; py/cal - 5mm (py x's 2mm wide); band of fine grain amph/pyrox 80° - py at outside contact 2mm wide band; py, trace MoS_2, 55° 2mm; cal, py - 70°, 2mm - 5mm	79.00 - 90.00 Dioritized Volcanic or Sub Diorite 88.0 - 88.15 - dark green, fine grain andesite or hornblendite - sharp contact at 70°			97 81.36		80.0		
				patches of heavy amph/pyrox alteration - cut by py strings > 1mm; ep, py, cal, 85°; amph/pyrox patch; py, 59°; py, cal, ep			82.41	87		83.0		
				py, ep, cal, 2-3mm wide, 30°; py, ep, 30°; py, ep, cal, 60°, 2-3mm		1-2%	83.61	86 90 85.45 76 87.33				
85		Moderate		ep, cal; fine grain andesite/hornblendite - 70°; barren 70°; 1mm, 70°; py, ep, 70°				85 88.24				
90								90.07				

HOLE NO.: 82-6
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK
DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

PAGE NO.: 7 OF 52
CLAIM:
SCALE: 1cm:1m
LOGGED BY: P. Romard

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N ep / chl / clay	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
90					Strong		py, ep, chl qtz, py, 3-4 cm, no contact Andesite/Hblide dike py, cal, 35° cal, py, ep, trace MoS_2 70° → small shear zone from 92.0-93.2 cal, ep, py, 70° (oxidized py) py 70° interval fracture of ep ~6mm wide ep, py, cal, hbl 3-5mm py, 45°, 3mm wide cal, py, 65° ep, py and some garnet, 35° ~4mm wide cal, 4mm, 30°, some garnet ep 80° py 35° ep, py, cal, 60°, 4mm ep, py, 80°, 3mm edge of andesite/hbl'te dike	90.00-91.00 - Dioritized Volcanic or Sub Diorite con't	1%		90.87 71	NQWL			
									91.00-92.00 - Fine grained, dark grey green Andesite or Hornblendite Dike - no sharp contact - py disem. and on fractures with calcite	<1%		90.98 64 92.05				
					Moderate				92.00-96.25 Dioritized Volcanic or Sub Diorite - patch work of ep and amph/py ± ore 93.72 - misfitch in core barrel	1-2%		61 92.97 57 93.72				
95									96.25-96.45 Fine garain, dark green Andesite or Hornblendite Dike - sharp contact at 40° - epidote halo of alteration for 3-4 cm on either side	<1%		33				
				S					96.45-105.00 Dioritized Volcanic or Sub Diorite - appears more uniformed grained and textured - very few areas of heavy alteration	1-2%		96.71 68 97.38 62 99.67 63 100.6 58 104.30				
100																
105																

HOLE NO.: 82-6
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

CLAIM:
SCALE: 1cm : 1m
LOGGED BY: P. Romard

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N (clay, Quartz, Sericite, Ksp)	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % Mo S_2
105					small fault, 55°, gouge py, ep, cal py massive 1-2 mm thick ep, cal, 87° garnet garnet, ep, py, 50° ep, cal, garnet, py, 50° ep, 80° vug, ep x's (3mm x 5mm)	105.00 - 112.30 Dioritized Volcanic or Sub Diorite - epidote alteration pervasive and on fractures - py disseminated and on fractures massive and crystalline - garnet on fractures (105.7 m & 106.2, 107.3) associated with fractures with ep & py	1-2%	106.38	50				
								107.29	56				
110		Moderate			cal, py, 80° ep x's, cal, py, 55° cal, 40° py, ep, garnet, 110° py, cal, 3mm, 60° py, cal, ep, 65-15° py, cal, 30° py ep, 55°	112.30 - 112.57 Feldspar, Quartz Micro Porphyry Dike - no sharp contacts visible - strong fracturing (fault) - some minor Ksp alteration in Dike - py associated with fractures <1% disseminated py - plag. phenos 1mm, 15%	<1%		77			110.0		
						112.57 - 114.8 Dioritized Volcanic or Sub Diorite cont	1%	110.34	90				
	S	str			fault, gouge gone, 4cm dike with py, ep (Fsp, Qtz Micro Porphy) py, ep, cal garnet	114.8 - 115.66 Feldspar, Quartz Micro Porphyry Dike - no sharp contact - strong fracturing (fault) - py disseminated and on fractures - some epidote on fractures but not pervasive - plagioclase phenos 1mm 15% - quartz phenos 1mm 20%	<1%	113.75	67	WQN		113.0		
								114.0					
115	3	str			fault, Fsp, Qtz Micro Porphyry Dike	115.66 - 116.00 Dioritized Volcanic or Sub Diorite - no sharp contact	<1%		88				
					ep, cal py, cal ep, cal, 85°	116.00 - 117.35 Feldspar Quartz Micro Porphyry Dike - no sharp contact at lower end, upper end 55° - moderate to strong fracturing - most fractures are epidote and calcite filled, very little py	<1%	115.06	73				
	3							115.83			116.0		
								117.35	77		117.35		
					py, 75° py, 60° py, ep, 70° py, 20° py, ep, 65° cal, py 45°	117.35 - 119.30 - Dioritized Volcanic or Sub Diorite - epidote alteration pervasively uniform no patches very little epidote on fractures			96				
		Moderate				119.30 - 120.00 Feldspar Quartz Micro Porphyry Dike - contact at 55° - in and out of Dike for .7 meters - Ksp alteration along contact		118.72					
120	3												

HOLE NO.: 82-6
COLLAR ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:
GROUND ELEV.:

PROJECT: Porcupine Creek
DATE STARTED:
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TOTAL DEPTH:

CLAIM:
SCALE: 1cm: 1m
LOGGED BY: P. Romard

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N: ser/chl/clay	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
120					Moderate		py, 80°, 1-2mm py, massive, x's py, 2.5cm, 55° Ksp py, cal, 2mm, 60° cal, py, 75°, 2mm ep, py, 25° py, 85° py, cal, 5mm, 65° qtz, py, 4-6mm, 55°	120.00 - 135.00 Dioritized Volcanic or Sub Diorite · uniform texture, medium grained · amph/pyroxene alteration at 121 m just above py vein/lett · epidote alteration patches at 122.80 - 122.00 132.28 - 133.07 - qtz, MoS_2, py vein, 80° (varies) · MoS_2 disseminated, but concentrating on contacts to 2mm · py disseminated · epidote forming halo along outside contact 1-2mm · minor Ksp alteration along contact 134.16 - 133.30 - qtz, MoS_2, py, vein (runs down core axis), 85° · larger than previous, more MoS_2, more py · MoS_2 disseminated and concentrated along contacts from 1-5 mm wide · py disseminated · six small stringers of mostly qtz with minor MoS_2 shooting off at roughly 80° to vein (1-2 cm wide)	1-2%	120.86 123.60 124.66 125.58 127.10 130.15 133.2 135.5	80 84 100 97 100 98 97 100	NQWL	132.0		>.01%
125							cal, 65° cal, Ksp, MoS_2, py, ep 2cm, 60° cal, py, trace MoS_2, Ksp 5°, 3-4mm qtz, 35°, 4mm py, qtz 60°, 3mm	py cal Ksp ep, MoS_2 cal Ksp MoS_2 diss. in Ksp and cal								
130					Weak		cal, 75° cal, ep, py, 50° qtz, py, ep (halo) 55°, 7mm ep, 80°, 2mm qtz, MoS_2, py, 80°, 2-4cm ep halo qtz, 5mm, 40° qtz, MoS_2, py, 85°, 2-4cm 6 small qtz stringers									
135							qtz, py, Ksp 40°, 3mm									

HOLE NO.: 82-6
COLLAR ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:
GROUND ELEV.:

PROJECT: Portwury Creek.
DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

CLAIM:
SCALE: 1cm:1m
LOGGED BY: P. Romard

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N ep, chl / clay	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
135–150						Moderate		py, 5°, 2cm; cal; ep, Ksp, cal, py, 60°, 2mm; py, 5°, 20m; hbl/pyrox; ep, py, 60°, 2mm; ep, cal, 5°; hbl/pyrox; ep; cal, py, trace MoS_2, 60°, 1½cm (145°); ep; qtz, py, 85°, trace MoS_2, 2-5cm, 70°; py fractures at 80°; 85° 1mm; granodiorite dikes, 65°, 1cm; qtz, py, MoS_2 - pocket; qtz, py, 3cm, 45°; garnet, ep, py, 25°, 1cm; py, cal, 65°; ep, 5°; cal, ep, py, 40° 1cm; granodiorite dikelets; qtz, MoS_2, cal, 3mm 40°; ep, py, cal, 55°, 2-4mm; qtz, py, trace MoS_2, hbl 50° 5mm, ep (two epidote); ep, py, 65°; ep, py, garnet, cal, 55°, 1½cm	135.00 - 143.50 Dioritized Volcanic or Sub Diorite con't 141.38-141.70 - strong secondary qtz. with strong epidote alteration at both ends for 4-6cm Patches of ep and hbl/pyrox alteration throughout (135-143.5)	1-2%	139.30	99	NOWL	140.0		
									143.50 - 144.00 Andesite Dike - fine grain (almost aphanitic), dark green, uniform texture - cut by 2 (two) granodiorite type dikelets (1cm wide) both cuts at 65° with a .75cm offset on the same 2mm py vienlet - dike has sharp contact with diorite at 50° - py disseminated and on fractures	<1%	142.34	98		143.0		
									144.00 - 146.50 Dioritized Volcanic or Sub Diorite 144.5-145 - mostly mafic, amph/pyrox alteration fine to medium grained		145.39	98				
									146.50 - 147.00 Andesite Dike - fine grain (almost aphanitic), dark green, uniform texture - sharp contact at 65° - py disseminated and on fractures - dike is cut by 2 similar granodiorite type dikelets 1-2cm wide at 55°	<1%		99				
									147.00 - 150.00 Dioritized Volcanic or Sub Diorite - more patchy with zones being leached of mafics to leave a quartz diorite type rock (148.44)	1%	148.44	100				

HOLE NO.: 82-6
COLLAR ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:
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BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N: ser / clay	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
150–165		2			Moderate			150.00 – 154.70 Dioritized Volcanic or Sub Diorite con't - some patches of secondary qtz with mafics leached out - patch work of hbl/pyrox alteration - mostly pervasive epidote alteration and fracture filling very little in epidote patch work	1%	151.49	100	NQ3L			
								154.70 – 155.20 Andesite Dike - fine grain (almost aphanitic), uniform texture, dark green	<1%	154.64					
								155.20 – 165.00 Dioritized Volcanic or Sub Diorite - 158 – 159 patch work of epidote alteration - other than above uniform texture with pervasive ep alteration - 162.50 – 162.75 – angular patch work of amph/pyrox and epidote	1%	157.88	99				
										160.63	99				
		2								165.18	98				

Legend (GEOLOGY):
- hbl/pyrox
- qtz, py, ep, trace MoS_2, 80°, 1cm
- qtz, py, ep
- hbl, pyrox
- qtz, py, 5mm, 65°
- qtz, py, trace MoS_2, 85°, 2cm
- qtz, cal, py, trace MoS_2, 60°, 4mm
- cal, py, ep, trace MoS_2
- small shear zone, qtz, py, cal ep, 10cm, 40°
- py, 10°, 3mm
- ep, py, garnet, 55°, 2-3cm
- py, ep, qtz 3mm, 80°
- ep
- ep
- py, 1mm, 85°
- qtz, ep, 2mm, 70°
- qtz, ep, py, hbl
- ep, hbl/pyrox
- cal, py, 2cm, 40°
- cal, 80°
- qtz, py, 2mm, 85°
- qtz, py, 40°

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BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N ep/chl/clay	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % Mo S_2
165		Σ			Moderate		cal, py, 70°, 3mm; ep, 90, py; gyp, py, 40m; cal, ep, 65°, 3mm; py, 40°; py, 75°, 3mm; cal, ep; ep; shear zone, 50°, 3m; py, plagio, cal, ep, diorite; ep, py, 40°; py, 72°; magnetite; gyp, 3mm, 80°; cal, 2mm, 65°; hornblendite section; hblite; py, 2mm, 85°; hornblendite 30%; ep, 2mm, 85° minor garnet; hornblendite; hornblendite 70%; ep, cal, py, 1cm, 60° (minor garnet); garnet, ep, 3mm; hornblendite, 30%; 2mm calcite, garnet; cal, qtz, 8mm; calcite, minor gnt, 70°; cal, 3mm, 55°; hornblende; cal, feld, 3mm, and irreg. patches, 5mm; 1/3: 1cm, 55° (trace py); gyp, 2-4mm, 65°; hornblendite; epidote, 2mm; hornblendite, 70%	168.00 - 180.00 Dioritized Volcanic or Sub Diorite con't 165.67-166 - amph/pyrox alteration almost complete to form a grained hornblendite 169.90-170.10 - amph/pyroxene alteration almost complete to form a grained hornblendite 172.68-173.12 - amph/pyrox alteration almost complete to form a coarse grain hornblendite - irreg. ragged contacts. 173.25-173.35 - 2cm patchs hornblendite cr.gr. - 40% irregular contacts. 174.90-175.10 - 2cm patchs cr.gr. hornblendite. - 30% with discem ep. patchs 20% 175.54-176.56 - two 1cm hornblendite patchs 176.05-176.32 - 70% hornblendite, cr.gr. patchs. 176.85-176.95 - 50% hornblendite. 178.10-178.13 - irregular. hornblendite patch. 178.28-178.31 hornblendite. 179.24-179.26 - irreg. hornblendite patch. 179.75-180.0 - irregular patchs hornblendite. 70%		166.73 169.78 172.82 175.87 178.93	85 100 99 100 98	NQWL	170.0 173.0		
170															
175															
180															

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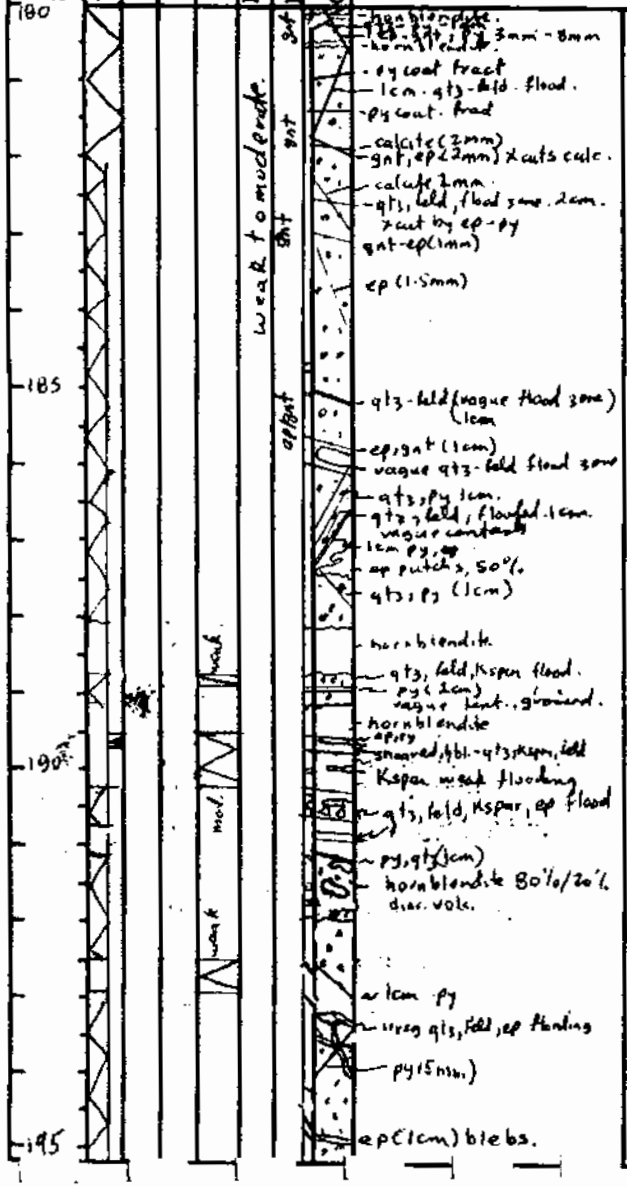
BEMA INDUSTRIES LTD.

COMMENTS

AVE. CORE REC'Y/HOLE

DESCRIPTIVE GEOLOGY

ALTERAT'N: ep-chl/clay, Quartz, Sericite, Ksp. | FRACTURING | MINERAL | GEOLOGY | SULPHIDES | DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SAMPLE INTERVAL | % REC'Y SAMP. INT. | mineral'd struc. ESTIMATED % MoS_2



180.00 – 182.00 dioritized Volcanics w/ patchs hornblende/hornblendite.
- m. gr. 2mm hbl subh. Xals in gr and mass micro Xal epidote-feldspar.
- irregular patchs hornblendite and poikilitic hornblende Xals suggest hornfels replacement near granodiorite.
180.10 – 180.15 hornblendite 70%
180.25 – 180.48 hornblendite patch 80%
180.55 – 180.60 hornblendite 80%

182 – 185.80 dioritized Volcanics as above with irregular zones feldspar-quartz flooding and fine grained granodiorite dykes.
- weak py on hairline fract 2%

185.80 – 193.00 hornblendite / dioritized Volcanics 60-40 w/ irregular qtz feldspar flooded patchs and fine grained granodiorite. (Kspar alteration)

188.20 – 188.85 hornblendite.

189.50 – 189.65 hornblendite
189.95 – 190.00 hornblendite.
190.00 – 190.30 f.gr. granodiorite. / Kspar alter envelopes on fract
191.85 – 191.92 f.gr. granodiorite. / freq. flooding
192.62 – 192.90 f.gr. granodiorite / weak Kspar alter.

193.00 – 19[illegible] dioritized Volcanics / <10% hornblendite
- several small f.gr granodiorite and ~~[illegible]~~ dykes

194.22 – 194.65 f.gr. granodiorite.
194.75 – 195.30 f.gr. granodiorite.

DRILLING INTERVAL	% CORE RECOVERED
	90
181.97	
	100
185.02	
	96
188.85	
	99
191.11	
	100
194.16	

CORE SIZE: NQWL

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SCALE: 1 cm = 1 m
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BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N: Carbonate, Clay, Quartz, Sericite, Kspar	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	AVE. CORE REC'Y/HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
195					194.00 – 207.07 Dioritized Volcanics w <10% patches hornblendite. several narrow f.gr. granod and andesite dyke.			196					
					195.25, 195.40, 195.55 – irreg. 1-2cm patchs hornblendite.								
					196.0 – 196.05 f.gr. granodiorite.								
					196.35 – 196.53 hornblendite (70%)								
					198.60 – 198.75 hornblendite.				96				
200	weak/mod.				199.48								
					200.60 f.gr. granodiorite (2cm)						200.0		
					200.80 – 201.20 porp. andesite dyke (hgly alter qtz-ep)								
					201.4 – 201.60 porp. andesite dyke (as above)								
					201.90 – 202.20 porp. andesite, aphanitic ground, dk grn. (ep, qtz alter patchs)				100				
	weak/mod.	weak.	weak.	gnt						NGVL	203.0		
								203.54					
205									98				
		mod.						205.97					
					207.07 – 208.10 Feldspar microporphyry. lt gy, tan tpgm, kspar alter flooding, lots of ing clay alter feldsp. outward from tight fract. -207.07 – 207.60 lt pink x cutting fract (cm specimens) becoming less fract later 207.00 → 208; fresh 208 – 208.10				99		207.07		
											208.1		
					208.10 – 208.64 DIORITIZED VOLCANICS			208.64					
					208.64 – 209.42 Feldspar microporphyry.								
210			gnt		209.42 – Hornblendite, minor sections, feldspar quartz flooding and f.g. [illegible]								

ep (2cm)
ep (1cm)
– 5mm feld, qtz
py, chl (2mm)
qtz, feld
5mm qtz, py
qtz, py (2-3mm)
py (2mm)
qtz, py (2mm)
ep.
ep, qtz, feld (2cm)
ep, qtz flooded.
ep, qtz patchs (40%)
ep, qtz (2cm) (35%)
ep, qtz
py (1mm)
ep
chl, cal, slip w/ep
chl, sh. (5mm)
ep.
chl, cal, sh (2cm) kspar
ep (5mm) minor gnt.
(1cm) py, chl.
ep.
kspar
kspar. flooding outward from low ∠ fract
ksp.
calcite.
py (1cm)
gnt, ep.
(10cm) chl alt. minor fract
chl sh (10cm) bx

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BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N (epidote, chl, clay, Quartz, Sericite, Kspar)	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
210					AVE. CORE REC'Y/HOLE								
215		Weak					1 - 2%	211.94 / 214.84 / 217.93 / 220.98 / 224.03	97 / 100 / 100 / 99 / 98	NQ WL			
220		Moderate-Strong	Band, MoS_2, Py										
225													

- calcite (1mm)
- calcite (1mm.
- Kspar (2cm)
- ep, py (5cm)
- calc, py (5mm)
- ep.
- fine grain granodiorite py, MoS_2, ep, chl, 60°, 5cm
- py, 50°, 3mm
- py, 2mm, 60°
- ep, garnet, 4mm, 70°
- cal, py, 2mm 40°
- fine grain granodiorite 60°, py, ep
- py, qtz, 1-2cm, 70°
- ep, garnet, py, chl, 85°, 2cm
- 85°, cal, 2mm
- qtz, 65°, 2mm
- py, 65°, 2mm
- qtz, disseminated py, MoS_2
- qtz, py, 2-3cm, 30°

209.42 - 222.50 · Hornblendite

211.02 - 211.04 f.gr. granodiorite (Kspar alta)
211.84 - f.gr. granodiorite. (1cm)
211.88 - f.gr. granodiorite (1cm)
212.10 - 212.25 f.gr. granodiorite., vague chilled contact
212.65 - 212.90 dioritized volcanics invaded by f.gr. granodiorite.
213.10 - 213.20 f.gr. porphyritic granodiorite, white clay after 2-4mm feldspar.
213.22 - (1cm) f.gr granodiorite.
213.42 - (2 cm) f.gr granodiorite.
213.85 - 214 irregular patch f.gr. granodiorite minor Kspar.
214.07 - 214.20 irregular invasion f.gr. granodiorite. (1cm - 2cm)
214.45 - (1cm) f.gr. granodior
214.80 - 214.80 Dioritized volcanics.
215.30 - (1cm) f.gr. granodiorite.
220.65 - 2-3cm F.gr. granodiorite pyritized to 3% zone minor epidote
217.0 - 5cm f.gr granodiorite internal fracture at 60° containing MoS_2, py, chl, ep

222.50 - 225.0 - Fine Grained Black Hornfels
- strongly sheared from 223.70m to 225m with numerous stringers of qtz, py, cal, qtz
222.4 - 222.6 · dioritized volcanic or sub diorite

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BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N (ser / chl, clay, Quartz, Sericite, Ksp)	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
225	M, M M	strong to moderate			-qtz, py, MoS_2, gyp -py, 1cm, 87° -gyp -gyp, py, 2mm, 35° -cp, py, 2mm, 50° -shear zone -py -cp, 50°, 3mm -shear zone -fault, 5°, 1-2cm	225.00 - 226.10 Fined Grained Black Hornfels - py disseminated and fracture filling - cross cut by gypsum, qtz fractures and veins 225.1 - 225.40 - quartz, py, trace MoS_2 vein some gypsum mixed in - py disseminated and in long thin patches (5cm x 5cm) - MoS_2 disseminated around pyrite - sharp contact at 50° at both ends	1-2%	227.08	100	NQWL			
						226.10 - 226.90 Dioritized Volcanic or Sub Diorite - epidote alteration pervasive and on fractures not total replacement 15-20% plagioclase remaining			95				
230					-Andesite dike contact sharp at 10° -py, polished by shearing -py, 5°, 2mm -py, cp, garnet, 5mm @ 30° -Andesite dike, contact at 25° ± 10° -py, gypsum	226.90 - 227.5 - Fine Grained Black Hornfels 227.5 - 228 - Shear zone /35-40° - interlayering? of dark black green chloritic shists gypsum, qtz, calcite, py - some minor MoS_2 fracture filling 228.65-229.1 - shear zone /35-40° - interlayering? of dark black green chloritic shists quartz, gypsum, calcite - some swirling to form pockets - 228.8 - py x's 3-5 mm², MoS_2 on fractures and finally diseem. to a width of almost 1cm 229.1 - Fault - calcite, chlorite on fault at 10°		230.13	88		230.0		
235					-py, 70° -py, cp, cal, 4mm @ 45° -F.gr. granodiorite ± cp -py, gyp, cp, 55°, 7cm			233.17	100		233.0		
		weak			-F.gr. granodiorite, 3cm, 45° -calc, cp, 60° -py, cp, 60° -py, chl, 75° -gyp, py, 2mm, 45° -cp, gyp, py 3cm @ 20° -cp, py, garnet, 4mm @ 70°	230.13 - 230.90 - Fine Grain Green Andesite Dike 230.90 - 232.25 - Dioritized Volcanic or Sub Diorite 230.25 - 232.70 - Fine Grain Green Andesite Dike 232.70 - 240.00 - Dioritized Volcanic or Sub Diorite - alteration to Hornblendite nearly complete - pbl x's to 2mm some inclusions of diorite		236.22 239.20	98				
240													

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AVE. CORE REC'Y/HOLE

COMMENTS

DESCRIPTIVE GEOLOGY

SECTION | ALTERAT'N (ep chl clay, Quartz, Sericite, Ksp) | FRACTURING | MINERAL | GEOLOGY

240 245 250 255

Weak
Weak

- py, 2mm, 60°
- py, 80°, 1mm
- py, 2mm @ 55°
- garnet, 1½cm x 1cm
- ep, 1mm, 50°
- Fine grain granodiorite 2cm 5°, diss py
- py, qtz, trace MoS_2
- py, ep, 3mm, 65°
- py, qtz, 4mm, 80°, (slight brecciation)
- ep, py, 9mm, 50°
- py, MoS_2, 1cm, 50° (two)
- zeolite, 3mm, 85°
- 3-5 py, 1mm, 40°
- ep
- py, trace MoS_2, ep, 50°
- py, 1mm, 70°
- py, ep, garnet, 3mm @ 45°
- ep, 3mm, 45°
- py, 2mm, 70°
- small fault 2cm, 50°
- py, qtz, MoS_2, 4mm, 60°
- ep, garnet, 6mm, 35°
- garnet

240.00 - 252.40 Diorite Volcanic or Sub Diorite cont

- medium grained to fine grained
- alteration to hornblendite nearly complete
- hbl x's to 2mm
- epidote alteration pervasive throughout

252.40 - 255 Black Green Hornblendite

- fine to medium grained
- interlocking hbl x's
- some minor epidote and chlorite alteration
- contact sharp at 30°
- py disseminated to 3% and on fractures
- numerous chl / ep fractures (<1mm)

SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
1-2%		100	NQWL			
	242.32					
2-3%		100				
	245.37					
		83				
	248.42	100				
	248.72					
		96				
	251.72			252.0		
		90				
	254.77			255.0		

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BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N ep chl sley	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % Mo S_2
25		M			Weak			small fault, 5cm, orientation vague; py, 2mm, 70°; py, 4mm, 80°; qtz, py, MoS_2, 6mm, 50°; py, 80°; py, 75°; qtz, py, 40°, 3mm; py, MoS_2, 85°; py, MoS_2, 40°; qtz, py, 4mm, 40°; ep, py, wollastonite; py, 1mm; Mbiotite; ep, py; qtz, py, MoS_2; ep, garnet; py, qtz; py, MoS_2; ep, garnet; Mbiotite; garnet, ep; 2cm py, ep, garnet, qtz; qtz, py	255.0 - 257.40 Hornblendite con't							
									257.40 - 262.25 Grey Biotite Feldspar Porphyry (See page 19 for I.D.) - plagioclase pheno's - 15-20% up to 1cm² mostly small 1-2 mm - biotite - 30-40% - 1-2mm - ground mass, fine grained, grey, 50-60% - py, stringers and disseminated throughout ground mass - contact with hornblendite vague - contact with Sub Diorite 30°	< 1%	258.17	87	NQWL	258.0		~.01
260					Moderate				262.25 - 269.82 Dioritize Volcanic or Sub Diorite - 15cm section from 262.7 - 262.85 m alteration complete to hornblendite - 20cm section from 266.9 - 267.1 m alteration complete to hornblendite	1%	264.23	97		261.0		
265					Weak				269.82 - 287.96. Grey Biotite Feldspar Porphyry (See page 19 for full description)	< 1%	266.26 267.51	99 100				
270														270.00		

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LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N Chl-epidote	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % Mo S_2
270										270.36	98				
											99		273.0		
										273.41					
275									<1%		100				
										276.41					
											97	NQWL	278.0		
										279.57					
280													281.0		
											93				
										282.55					
											79				
										283.44					
285															

Grey Biotite Feldspar Porphyry Cont'd

Grey colored f-med grained dike containing 40% anhedral - euhedral whitish fsp phenos. euhedral xt'ls are tetangular or show glomeroporphyritic texture. Size range from <1mm to 6mm; 1-2% 1-2mm biotite phenocrysts. Grey aphanitic groundmass. Mod fractured. wk-mod chloritic. bio → chl. fsp → kaol

281.45 - 281.57 Porphyritic Granodiorite Dike

20% whitish anhedral to euhedral <1mm - 6mm xtls (serate text.)
5-7% biot - specks to 5mm.
5% 2mm - 3mm ave → 7mm qtz phenos.
Grindmass of f-qtz, fsp contacts sharp but have qtz uns right at contact.

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DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

PAGE NO.: 20 OF 51
CLAIM:
SCALE: 1cm:1m
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N Chl-ep/clay	Quartz	Sericite	Ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
285					Mod.	Mt - Py		ep 1mm qtz py; <1mm qtz py ep; 1cm py/4mm ksp halo; platy py chl ksp qtz; chl; 3mm qtz, py Mt	Grey Biotite Feldspar Porphyry	<1%	28660	93	NQWL			
											28657	85				
											28658	83				
								not visible brecc.; garnet ep; irreg whitish intrusive hb xtls; whitish material w/ hb. frag; ep; Q.M.P.; rem. Q.M.P.; dissem py, Mt	287.96 Hornblendite: Dense interlocking grains of angite or hornblendite - chloritized. With 1-5% dissem. py, 1% dissem Mt. Fingers of whitish intrusive material (source?) Recrystallized possible Q.M.P.	1-5%		94				
											28656					
290					Strong	Py + Mt						81		2900		
								Q.M.P.; Shear ω 30-50° st sheared chl; dry MoS_2 shear chl; sheared chl.	2908-292 Shear Zone - Strong Chl.		29063					
						MoS_2						98		2930		
					Mod.			shear ω 35-55 str sheared chl; Granophyre; 3mm qtz, py & MoS_2 branching; irreg whitish intrus. specks MoS_2 (blog → kogll); wk dry MoS_2								
295											29383					
						MoS_2		4cm gouge small fault; spotty dissem of MoS_2; 2cm qtz vn, w/ MoS_2; py ep; dissem Mt; 6mm qtz, py; irreg whit intrusive material; dissem Mt; Kaol, ep, MoS_2, kam. chl				98				
											28657					
								ep; Kaol, ep-chl; dissem Mt; Kaol white intrusive material; ep; dissem py; shear w/ ep, py; 2mm py				99				
300											29469					

HOLE NO.: B2-6
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK
DATE STARTED:
DATE FINISHED:
TOTAL DEPTH:

CLAIM:
SCALE: 1cm : 1m
LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
300						Continue → Hornblendite. dk. green, 2-5mm hbl. w chl alter shears; note: irregular patchs. ksper-qtz-qtz, xcut by f.gr. but granodiorite (clay alt.) with stopping nature and xcut by fld. microporphyritic granodiorite both of which are xcut by chilled → m.gr. granophyre.		300.64	154				
						300.0-300.40 f.gr. but granodiorite @10° clay alter white-ltgy. xcut by granophyre 300.33 @ 70°	1%	300.69	100				
305						301.40-302 feldspar microporphyritic granodiorite. - 10% but 1/4mm chlor. - 10% 2mm feldspar cub clay alter - groundmass qtz-feld chilled - flow texture @60°		305.91	102				
						chilled granophyres @30-70° @ intervals 302.15 (1cm) 30%, 302.25 (2cm @30°), 302.45 (2cm @40°), 302.83 (2cm @40°), 303.05 (2cm @60°), 303.13 (6mm @70°), 303.35 (2cm @65°), 303.45 (1cm @60°), 303.60 (6mm @60°), 304.20 (5mm @70°), 307.45 (1cm @60°), 307.63 (2cm @60°), 307.75 (5mm @60°, 307.70 (1cm @60°)	1%	306.93	46				
						308.80-308.95 f.gr. but granodiorite. irregular contact @20° 40°	2%	309.90	98				
						309.67 - granophyre 1cm @ 90° granophyre 309.75-310.20 @ 50°, 311.30 (8mm) @60°, 312.23 @40°	3%		100		312.8		
						irreg. granitic veins and floodings 310.73-.82, 310.95 (1cm), 311.35-.50	2%	313.60			313.23		
						311.90 qtz-feldspar-but porphyritic zone 1cm qtz-heavy MoS_2 xcut by qtz-py	3%				314.0		
315													

- 2cm chl, sh. qtz-py
- 2cm qtz. sericite @30°
- chl frag.
- qtz-MoS_2
- ksper (1mm)
- sericite-chl sh.
- 1cm qtz, py, musc heavy
- granophyre
- chl sh 1cm quartz/py
- granophyre
- ep
- granophyre.
- chl sh
- chl sh. w/hem. str.
- granophyre (1cm) chill
- granophyre (6mm) chill
- granophyre (5mm) chill
- ep-qtz-feld.
- chl sh.
- granophyre. chill
- py
- qtz-musc (1cm)
- qtz-musc, qtz stock(?)
- granophyre.
- py
- py (1cm) w/ py vein
- qtz-py vein
- 1cm qtz MoS_2 (heavy)
- py (7mm)
- qtz-py
- ksper-ep-feld flood.
- qnt-ep-feld flood.
- qtz-py vein

HOLE NO.: 81-3
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

PAGE NO.: 22 OF 31
CLAIM:
SCALE: 1cm 1m
LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N chl/clay	quartz	sericite	ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS	DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
315					weak	py - MoS_2				~ 1/2 %		100	NQWL			12 / <0.05
320					mod - weak						316.00	99				318.0
											319.13	99				7 / <0.05
												99				321.0
					strong						323.17					14 / .05-.015
												100				324.0
325					mod - weak	MoS_2 py				~ 1/2 %	325.22					16 / .06-.016
												97				327.0
											328.77					23 / .013-.032
330																330.0

GEOLOGY: qtz. gyp. xenolith 3mm qtz uns py MoS_2 chl 3mm qtz ms MoS_2 chl wk ksp halo 3mm qtz, py qtz w/ksp halo chlor min gouge @ 60° a CA. chl chl, gyp 1cm qtz, MoS_2 1cm qtz, gyp, py rlind, disseim py 2mm qtz. gyp, chl fr speckled py. 1mm qtz, py 3mm chl MoS_2, gyp 2mm qtz w/ wk MoS_2 Fr w/ py ksp halo 1cm calc. 2mm ser, chl ser, MoS_2 bx 4cm 2mm qtz, py, MoS_2 tr MoS_2, gyp 1cm ksp halo 8mm qtz, py, dry MoS_2 chl, py 1.5cm qtz, py, MoS_2 qtz, MoS_2 bio → ser qtz, py MoS_2 h/l ksp 4mm qtz ksp halo 3mm qtz py MoS_2 qtz, MoS_2 qtz, ksp - ksp lleading 3mm qtz, py ksp halo dry MoS_2 cal pink zeol. chl shear

Porphyritic Granodioritic Cont'd

315.0 - 317.0
Moderately fresh intrusive, fresh bio. <5% ksp alt'n, some fsp → kaol (whitish). Short sections with mod. stkw. but w/ low % of MoS_2.

317.0 - 319.0
Moderately alter'd, ksp → 10% fsp → kaol bio → chl. weak Fr.

319.0 - 323.6
Moderately fresh, fsp → kaol w hitish ksp weak <5% some barren qtz uns with wk. ksp halos, bio fresh

323.6 - 324.9
Moderate alt'n near w stkw at 324.1 also 6cm of bx. ksp alt'n ~10%

324.9 - 330.8
Moderately fresh intrusive <5% ksp alt'n, fresh bio. wk - mod qtz uning fsp → kaol mod - wk.

HOLE NO.:
COLLAR ELEV.: GROUND ELEV.:
COORDINATES: N. E.
INCLINATION: BEARING:

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

CLAIM:
SCALE: 1 cm : 1 m
LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

SECTION	ALTERAT'N Chl/clay	quartz	sericite	ksp	FRACTURING	MINERAL	GEOLOGY	COMMENTS / DESCRIPTIVE GEOLOGY	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	mineral'd struc. ESTIMATED % MoS_2
330					Strong	Py - MoS_2			1-2%	334.10	76	NQWL			
								Quartz Microporphyry Very fine grained siliceous rock, greenish w/ some whitish sections (→ kaol.) Micro Fractured. Some sections w/ fine biot. Cut by Granophyre & qtz, MoS_2 vns. bio → chl & chl/Fr							
								333.0 - 338.46 Grey Biotite Quartz Feldspar Porphyry Greyish colored rock w/ 15-20% whitish 2-5mm Euhed fsp grains some → kaol. 15-20% biot. up to 3mm (probably where dk color originates 5-10% 3mm qtz eyes. - Appears to be some alignment w/ biotite & fsp. Cut by Granophyre dikes & qtz MoS_2 py vns.	1%	334.37	87				
335					Mod - Strong	MoS_2				337.42	97				
						MoS_2 - Py		338.46 - 339.7 Porphyritic Granodiorite Dike	< 1/2%		85				
340								339.7 - 341.18 Hornblendite		340.93					
								341.18 - 341.42 Porphyritic Granodiorite Dike	3%						
					Mod.			341.42 342.7 Grey Biotite Quartz Feldspar Porphyry Dark green grey dike. v-f grained near upper cont. becomes coarser w/ visible biotite and 15-20% fsp phenos Fresh	~ 1% - 1/2%		88				
								342.7 - 343.4 Hornblendite		343.51					
345								343.4 - 344.75 Grey Biotite Quartz Feldspar Porphyry section 343.85 - 344.27 f-grained w/ some fsp phenos							

Geology legend: h/c MoS_2, qtz. · py · qtz, MoS_2 cuts Granophyre · str Fr w/ ankerd. MoS_2 · upper cont @ 45° qtz. · qtz, py 3mm · Granophyre · lower cont. sharp @ 50° clrg MoS_2 str · Granophyre · 8mm qtz py MoS_2 · 1cm qtz, py MoS_2 · 3mm qtz, py MoS_2 · 2.5cm qtz · 1cm · 3mm qtz MoS_2 · 3cm · Granophyre · 5mm qtz, py MoS_2 · py 1cm Granophyre · gyp · py MoS_2 · clrg MoS_2 · hornfels hornblendite · qtz, MoS_2 · some Granophyre @ cont. · Shear cont @ 30° · Granophyre · ep. · disseminated py · chl material · qtz, MoS_2 // core axis · py · 1.5cm qtz, py MoS_2 · Shear @ 45° · P.G. · 5cm Granophyre · 2mm qtz, MoS_2 · 1mm py · clrg MoS_2 · chl

PAGE NO.: 1 OF 52

CASING COLLAR ELEV.:

COORDINATES: 9+680 N. 10+120.5 E.

INCLINATION: -55°

GROUND ELEV.: 1,390 m

BEARING: 243° azimuth

PROJECT: PORPHYRY CREEK

DATE STARTED: Aug 9, 1982

DATE FINISHED: Aug 31, 1982

TOTAL DEPTH: 777.71

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	CORE INCHES REC.	CORE % REC.	CORE ASSAY MoS_2					DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	SLUDGE LBS. REC.	SLUDGE % REC.	SLUDGE ASSAY				
0	OVERBURDEN																		
5																			
10																			
15																			

PAGE NO.: 2 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1cm : 1 m

LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MoS2	ASSAY			
24	27	47554			.002				

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 3 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: Pokuxary Creek

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1cm:1m

LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
					mo52														
24	27	47584			.002														

25

30

35

40

PAGE NO.: 4 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: 82-6

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1cm : 1m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY oz/ton				
50	53	47348			.003				

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 5 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORCUPINE CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
FROM	TO	SAMPLE NO.	INCHES REC.	% REC.	ASSAY					FROM	TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
					MOS2														

60

65

70

75

NO SAMPLES ASSAYED

PAGE NO.: 6 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY MoS_2				
80	83	47349			.008				

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 7 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1 cm. 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY MoS2					DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
110	113	47356			.003														

PAGE NO.: 8 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY Mo%				
115									
116	117.35	47555			.004				
120									
125									
130									

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 9 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY MOS2					DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
130																			
132	135	47556			.580														
135																			
140																			
140	143	47550			.016														
145																			

PAGE NO.: 10 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: B2-6

REF. TO CLAIM CORNER:

SCALE: 1cm : 1m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE							
FROM	TO	SAMPLE NO.	INCHES REC.	% REC.	ASSAY					FROM	TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
145					MOS2														
					NO SAMPLES ASSAYED														
150																			
155																			
160																			

PAGE NO.: 11 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1cm: 1m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY Mo%					DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
170	173	47448			.028														

PAGE NO.: 12 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY MOS2					DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.					
175					NO SAMPLES ASSAYED														
180																			
185																			

PAGE NO.: 13 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: B2-6

REF. TO CLAIM CORNER:

SCALE: 1cm : 1m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	CORE INCHES REC.	CORE % REC.	CORE ASSAY MOS2					DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	SLUDGE LBS. REC.	SLUDGE % REC.	SLUDGE ASSAY				
190																			
195																			
200																			
200	203	47449			.008														
205																			

PAGE NO.: 14 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: B2-6

REF. TO CLAIM CORNER:

SCALE: 1cm : 1m

LOGGED BY: G.E NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY MoS2				
207.7	208.7	47557			.007				

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

205

210

215

220

PAGE NO.: 15 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1 cm: 1 m

LOGGED BY: G.E. Norman

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	% MOSZ	ASSAY			
230	233	47558		.003					

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 16 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	CORE INCHES REC.	CORE % REC.	CORE ASSAY MOS2	CORE ASSAY	CORE ASSAY	CORE ASSAY	CORE ASSAY
235									
					NO SAMPLES ASSAYED				
240									
245									
250									

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	SLUDGE LBS. REC.	SLUDGE % REC.	SLUDGE ASSAY	SLUDGE ASSAY	SLUDGE ASSAY	SLUDGE ASSAY

PAGE NO.: 17 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY MoS2				
250									
252	255	47559			.013				
255									
258	261	47560			.017				
260									
265									

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 18 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1cm: 1m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY MOS2				
265									
270									
270	273	47561			.040				
275									
280									

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

PAGE NO.: 19 OF 32

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORCUPINE CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: B2-6

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY MDS2					DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
280																			
285																			
290																			
290	293	47563			.014														
295																			

PAGE NO.: 20 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1 cm : 1 m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY mo oz					DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				
295																			
300																			
305																			
310																			

NO SAMPLES ASSAYED

PAGE NO.: 21 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1cm : 1m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

	CORE										SLUDGE								
	DEPTH INTERVAL		SAMPLE NO.	INCHES REC.	% REC.	ASSAY					DEPTH INTERVAL		SAMPLE NO.	LBS. REC.	% REC.	ASSAY			
	FROM	TO				MoS2					FROM	TO							
310																			
	312.8	313.23	47564			.028													
315	314	317	47565			.038													
320																			
325																			

PAGE NO.: 22 OF 52

CASING COLLAR ELEV.: GROUND ELEV.:

COORDINATES: N. E.

INCLINATION: BEARING:

PROJECT: PORPHYRY CREEK

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 82-6

REF. TO CLAIM CORNER:

SCALE: 1cm : 1m

LOGGED BY: G.E. NORMAN

BEMA INDUSTRIES LTD.

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	CORE SAMPLE NO.	INCHES REC.	% REC.	ASSAY MoS2				
325									
330									
	329.8	333.0	47351		.067				
335	333.0	336.0	47352		.039				
	336.0	339.0	47353		.048				
340									

DEPTH INTERVAL FROM	DEPTH INTERVAL TO	SLUDGE SAMPLE NO.	LBS. REC.	% REC.	ASSAY				

KLIYUL
(1581)

LADY DIANA IV
(4002)

LADY DIANA VI FR
(4003)

LADY DIANA I
(3999)

BEAR
(1997)

KAREN CREEK

DAVIE CREEK

PORPHYRY CREEK

BEAR CREEK

KLUTZE CREEK

TIE LINE 9+300 E

BASE LINE 10+000 E

L 10+600 N

L 9+500 N

L 9+000 N

L 8+600 N

10+500 N

10+000 N

9+500 N

9+200 N

9+000 N

8+500 N

P-1 -75° 82.3m.

P-2 -45° 104.2

79-2 -60° 236.5

81-3 Extension -65°, 242.9 - 457.2

81-3 -60° 242.9

81-5 -60° 470.9

82-06 -55° 777.7

81-4 -60° 546.2

79-1 -51° 261.2

Scale 0 50 100 150 200 Metres

LEGEND

DDH & NUMBER, INCLINATION, DEPTH (metres)

- Collar location
- Surface projection
- P-1, RIO CANEX DDH (1964)
- TECK DDH (1979)
- GETTY DDH (1981)
- GETTY DDH (1982)

CLAIM POSTS

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

CLAIM BOUNDARY

CLAIM NAME, RECORD NUMBER

LADY DIANA I
(3999)

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

1650

GEOLOGICAL BRANCH
ASSESSMENT REPORT

10,730

Figure 4

PORPHYRY CREEK JOINT VENTURE

DAVIE CREEK Mo PROSPECT
DIAMOND DRILL PLAN

DRAWN BY: KRL/AWD	DATE: OCTOBER 1982
CHECKED BY: G. NORMAN, P.Eng.	DRAW'G NO:
N.T.S.: 94 G/14 D	SCALE: 1:2,500

GETTY CANADIAN METALS, LTD.

BEMA DRAFTING