84-1167-13124

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

DIAMOND DRILLING REPORT

VULCAN 5, 6, 7 CLAIMS

Fort Steele Mining Division

Dewar Creek Area

N.T.S. 82F/9 & 82F/16

Lat: 490 44' 30"

Long: 116° 22' 30"

OWNER

Cominco Ltd.

Kootenay Exploration 1051 Industrial Road #2 Cranbrook, B.C. V1C 4K7

Work Performed during June to July, 19€42

Report By:

P. Klewchuk Geologist

Under the Supervision of:

D. Anderson Project Geologist LOGICAL BRANCESSMENT REPOR

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LOCA	TION MAP								In Pocket

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

DIAMOND DRILLING REPORT VULCAN 5, 6 & 7 MINERAL CLAIMS

Fort Steele Mining Division

1.00 GENERAL STATEMENT

This report outlines the results of a diamond drill hole program consisting of 2 holes on the Vulcan 5 mineral claim, 1 hole on the Vulcan 6 mineral claim and 1 hole on the Vulcan 7 mineral claim.

The work was performed between June 13, 1984 and July 14, 1984.

Total expenditures related to the diamond drilling program amounted to \$66,857.36.

It is requested that \$66,600. be applied as follows:

Vulcan	4	(18	units)	at	\$100/unit	-	1	year	-	\$ 1,800
		200		at	\$200/unit	-	4	years	-	14,400
Vulcan.	5	(12	units)	at	\$100/unit	-	1	year	-	1,200
				at	\$200/unit	-	4	years	-	9,600
Vulcan	6	(18	units)	at	\$100/unit	-	1	year	-	1,800
				at	\$200/unit	-	4	years	7	14,400
Vulcan	7	(6	units)	at	\$100/unit	-	1	year	-	600
				at	\$200/unit	-	4	years	-	4,800
Vulcan	8	(20	units)	at	\$100/unit	-	3	years	-	6,000
				at	\$200/unit	-	3	years	-	12,000
										\$66,600

It is requested that \$257.36 be credited to Cominco P.A.C. account.

2.00 INTRODUCTION

2.10 Status of Ownership

The Vulcan 5, 6 and 7 mineral claims are 100% Cominco owned.

2.20 Location and Access

The Vulcan 5, 6 and 7 mineral claims are located 30 km north-west of Kimberley, B.C. Access to the drilling sites is via the St. Mary logging road, the Dewar Creek logging road, and short bulldozer roads.

The area of the 4 drill holes is centered approximately at latitude 49° 44′ 30″ and longtitude 116° 22′ 30″. Elevation of the drill hole collars ranges from 1,140m to 1,530m.

2.30 General Character of the Area

The topography on the Vulcan claims in the area of the drilling program is moderate to steep. Elevation ranges from 1,100m in the St. Mary River valley bottom to over 2,500m at some mountain peaks. Parts of the area have been logged; timber consists primarily of larch, fir, pine and cedar.

3.00 DIAMOND DRILLING

Four holes were drilled from surface to test electromagnetic conductors. Vu-84-1 was drilled to a depth of 123.3m, Vu-84-2 to 122.3m, Vu-84-3 to 117.1m and Vu-84-4 to 147.0m. Core size in all holes is NQ. Rocks intersected by drilling are fine grained siliceous metasediments of the Helikian Aldridge Formation and intrusive gabbroic masses interpreted to be sills. Aldridge Formation lithologies present in the core are quartzitic wacke, wacke and subwacke. The sediments range in thickness from laminated to medium bedded. A metamorphic alteration is evident throughout much of the core and is manifested by development of biotite and silicification. Very narrow zones of graphite are present in the core. Minor sulfides, commonly pyrrhotite and pyrite but also arsenopyrite, sphalerite and galena occur locally. Intervals analyzed in one hole, Vu-84-4, are included with the drill log. No sulphides of economic grade were intersected.

The drill program was under the direction of P. Klewchuk and supervised by D. Anderson.

Three Sperry Sun Single Shot orientation survey tests were taken. Details are included in the drill logs. The core is stored at the Kootenay Exploration office in Cranbrook.

4.00 CONCLUSIONS

Four diamond drill holes, Vu-84-1, 2, 3 and 4, drilled on the Vulcan 5 - 7 mineral claims, intersected metasedimentary rocks of the Aldridge Formation as well as intrusive gabbro. No sulfide of economic grade/thickness was cored.

EXHIBIT "A"

STATEMENT OF EXPENDITURES

DIAMOND DRILLING - VULCAN 5,6,7 CLAIMS

Fort Steele Mining Division

Diamond Drilling - Indirect	
Salaries (Field)	
P. Klewchuk - Geologist - 20 days @ \$229/day	\$ 4,580.00
Salaries (Office)	
P. Klewchuk - Geologist - 2 days @ \$229/day	458.00
Mobilization - Demobilization	
Hendersons Heavy Hauling (1973) Ltd.	2,811.89
Road Access and Drill Move	
Cominco Ltd Kimberley - Bulldozer	840.00
Bearcat Contracting Ltd Fort Steele, B.C.	12,079.00
Bear Lumber Ltd Cranbrook, B.C.	385.00
FOSTER, Red - Kimberley, B.C.	210.00
<u>Other</u>	
Supplies - Core boxes, mud, explosives etc.	1,289.23
Transportation - 4x4 Truck 15 days @ \$40/day	600.00
Sandor Rental - Compressor	160.50
Geochem Analyses	539.60
Diamond Drilling - Direct	\$23,953.22
Longyear Canada Inc., 721 Aldford Avenue Annacis Industrial Estate, New Westminster, B.C. V3M 5P5	\$42,904.14

Total Expenditures - Indirect - \$23,953.22
Total Expenditures - Direct - \$42,904.14
\$66,857.36

P. KLEWCHUK, Geologist

IN THE MATTER OF THE B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAMME

CARRIED OUT ON THE VULCAN 5,6,7 MINERAL CLAIMS

DEWAR CREEK AREA

in the Fort Steele Mining Division of the Province of British Columbia

More Particularly N.T.S. 82F/9 & 82F/16

AFFIDAVIT

- I, P. Klewchuk, of the City of Kimberley, in the Province of British Columbia, make Oath and say:
- That I am employed as a Geologist by Cominco Ltd. and as such, have a personal knowledge of the facts to which I hereinafter depose:
- That annexed hereto and marked as Exhibit "A" to this
 my Affidavit is a true copy of expenditures incurred
 on a Diamond Drill programme, on the Vulcan 5,6,7
 Mineral Claims.
- That the said expenditures were incurred between the 13th day of June, 1984 and the 14th day of July, 1984, for the purpose of mineral exploration on the above noted claims.

P. KLEWCHUK Geologist

P. Klevehal

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

AUTHOR'S QUALIFICATIONS

As author of this report I, Peter Klewchuk certify that:

I am employed by Cominco Ltd. as a geologist active in minerals exploration.

I am a graduate of the University of British Columbia with a degree of Bachelor of Science and a graduate of the University of Calgary with a degree of Master of Science.

I have been continuously engaged in geolgy and mineral exploration for 13 years.

I am a member of the Geological Association of Canada.

P. KLEWCHUK Geologist

P. Klevolul

Report by: P. Klerchul

P. KLEWCHUK Geologist

Endorsed by:

D. ANDERSON, P.Eng. Project Geologist

Approved by:

J.M. HAMILTON Assistant Manager Western District

Approved for Release by:/

G. MARDEN, Manager

Exploration Western District

Vancouver

Mining Recorder (2 copies) Western District, Exploration Kootenay Exploration xc:

Drill Hole F		District	Hole No.	Vu-84-1	Comine						*		
	ne 14, 1984	Location Line 3000N	Tests at		rior. Cor	ma.			5	8	-420	8	123 m
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							- 11.0		-	-			-
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	23.40m - 24.80m												
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	24.8 - 27.5m	Med. gray-green color; amphibo	oles annear to	be altered to ve	ery light gree	nish							
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commenced completed co-ordinates objective	Osscription GASBRO - Con't 27.5 - 35.9m	At 34.25 m a 1 cm wide quartz Fault zone - strongly sheared,	Hole No. Tests at Corr. Dip True Brg. % Recov. a medium blue-ge veinlets are the does not loo ly altered. To s narrow, often	Vu-84-1 Yu-84-1 ray-green. Fine present and a we k much like a ty urmaline is diss somewhat irregulations at 55° to core	Gomino Hor. Co Vart. Co Logged Date s-med. grained. eak calcareous expical gabbro seminated throughar, veinlets. axis.	ally Page mp. by ship	ample	Langth	Anal		Collar Dip		
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roperty VULCA commenced completed co-ordinates	Osscription GASBRO - Con't 27.5 - 35.9m	At 34.25 m a 1 cm wide quartz Fault zone - strongly sheared, zone are chloritic. Hineralog	Hole No. Tests at Corr. Dip True Brg. % Recov. a medium blue-ge t veinlets are ne does not loo ly altered. To a narrow, often -po vein occurs gy of the zone	Vu-84-1 ray-green. Fine present and a we k much like a ty urmaline is dissisted to core axis. is predominantly General characteristics.	domino Hor. Co Vart. Co Logged Date Dele Permed. grained. Bak calcareous Aprical gabbro seminated throughout the color of the gal ter of the gal	on Page	ample	Length	Anal		Collar Dip		
roperty VULCA commenced completed co-ordinates	Osscription GASBRO - Con't 27.5 - 35.9m	At 34.25 m a 1 cm wide quartz Fault zone - strongly sheared, zone are chloritic. Mineralog	Hole No. Tests at Corr. Dip True Brg. % Recov. a medium blue-ge veinlets are ne does not loo ly altered. To s narrow, often -po vein occurs foliated at 2 gy of the zone	Vu-84-1 Yu-84-1 ray-green. Fine present and a we k much like a ty urmaline is dississmewhat irregulations at 55° to core axis. Is predominantly General charachange is a gradal charachange is a gra	from 27.2 to gabbro is loc Commind Hor. Co Vart. Co Logged Date Description Back calcareous spical gabbro seminated throughan, veinlets. Axis. Hargins of the gal actional one who	ally Page mp. by ship the tee- bbro fich	ample	Length	Anal		Collar Dip		
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Property VULCA	N	District	Hole No. Vu-84-1						
Commenced		Location	Tests at	Hor, Comp				1	1
Completed		Core Size	Corr. Dip	Vert. Comp	۸.	1	1 1	10	
Co-ordinates			True Brg.	Logged by		_	- L	8	
Objective			% Recov.	Date			E S	oller	
					Sample	Langth	Analys	- 10	
Footage From To	Description				No.	-		7	
1	GABBRO - Con't							_	
	36.30 - 55.40m	Dark gray-green; mediu	m-coarse grained. Dark green as	mphibole. Light gray-		-	1	+	
		white feldspar and gra-	y quartz predominate, with minor	r biotite and pyrrho-		-	-	+	-
		tite.				-	-	-	_
		Foliation is locally p	resent but there is no pervasive	e foliation present.		-	1	+	_
				•	-	-	-	+	_
		At 52.0 m a quartz-cal	cite vein 1-3 cm wide, occurs a	t 25-30° to core axis	_	-	+	+	_
		with included pyrrhoti			-	-	+	+	_
						+	++	+	_
		A+ 52 7 m a 5 cm wide	quartz wein at 85-90° to core a	xis contains a po vein					
1		up to 3 cm wide.	quartz vein at 05-50 to core a						
-		up to 3 cm wide.						-	
55,40 - 80,40	STRONGLY ALTER	ED METASEDIMENTS							
331.10		Contact at 55.4 m 1s g	gradational over ~2 cm, at a hi	gh angle to the core		-	-		_
		axis - about 80°. Ove	erall character is massive, with	a variably mottled		-	1	-	_
		character common. Qua	artz, feldspar and biotite are t	he predominant mineral	5	-	-	-	_
		with fine-grained tour	rmaline a common constituent in	minor amounts. Pyrrho	tite	-	-	-	_
		is common as small irr	regular blebs throughout averagi	ng 1-2%. Aggregates		-	+	-	_
		of pink garnets are pr	resent locally. Overall color i	s a whitish-bluish		-	-	-	_
		gray, texture is predo	ominantly fine-grained, granular	with a weak foliation		-	-	-	_
		at ~600 to core axis	being common. Some composition	nal layering is apparer	it				_

Property VULCA	N District	Hole No. VIJ-84-1	•			1 1		1
Commenced	Location	Tests at	Hor. Comp.					
Completed	Core Size	Corr. Dip	Vert. Comp.					
Co-ordinates		True Brg.	Logged by				8	
Objective		% Recov.	Date			E S	1	
					_	Analy	- 3	_
From - To	Description			Sample No.	Length	Analy	-	
	STRONGLY ALTERED METASEDIMENTS : 0	Con't						
55.40 - 80.40m		these zones are gradational	over 0.5-1.0 cm and					
(con't)		ue to diffusion processes dur						
	At about 72.1 the	color becomes somewhat darker - mo	ore medium to dark blue-					
	gray colored, refi	ecting an increased mafic content.					-	
			The second second		_			
7.4	At 67.5 m - 67.9 m	n quartz-fp veining at $\sim 30^{\circ}$ to core	e axis contains irregular		-		-	_
	appearing veins of	f po.	Control of the Contro				-	
							-	_
					+	-	-	_
	At 72.5 m a 3 cm v	wide quartz-fp wein at 45° to core a	axis contains minor po		+	-	-	_
				-	+-	-	-+-	-
				-	+	\vdash	+	-
		de quartz-fp-minor calcite vein is p leling the quartz-fp vein are 2-3 m		_	+	+	+	
		ite and fine-grained pyrrhotite and		-	-	+	-	-
-		(0.5-1mm) veinlets occur immediate			1	1	-	-
		-fp vein, with irregular attitudes i		1				
	to the core axis.	The state of the s	initing them to to to					

Property VULC/ Commenced	Location Tests at Hor. Comp.						
Completed	Care Size Corr. Dip Vert. Comp.		-	-		0	
Co-ordinates	True Brg. Logged by		-	-		di di	
Objective	% Recov. Date			- 1	8.0	Solle.	leve.
	Description	Sample	Length	Ana	yala	1	_
rom To	STRONGLY ALTERED MFTASEDIMENTS - Con't			\top			t
55.40 - 80.40m							t
(con't)	11 777 310 3010 417 40 401 40 70 100 100 100 100 100 100 100 100 100						T
	Contact at 80.4 m is gradational over 1 or 2 cm and occurs at about 80° to		-	-	-	-	+
	core axis.	-	-	+	-	-	+
	24202	-	+	+	+	+	+
80.40 - 123.20m	GABBRO Dark-med, gray, gray-green. Light-med, green amphiboles and white to light			+	\vdash	+	+
	gray subhedral to anhedral feldspars characterize the gabbro. Gray quartz						†
	and biotite are also present. Texturally the gabbro is fine to med. grained,						1
	locally coarse grained and with a moderate to strong foliation at about 500						I
5-7	to core axis throughout the cored interval. Locally the foliation is quite			1	F	F	1
	strong and the rock has a gneissic character.			-	-	-	+
			+	+	-	+	+
	At 90.4 m a 1-3 cm wide po vein occurs at 35° to core axis,	-	+	+	+	+	+
				1	1	-	+
	At 90.75 m a 3 cm wide quartz vein at 70° to core axis has carbonate (calcite		1	T			1
	and dolomite) alteration associated with it for 10-15 cm above and below						I
	the quartz vein.						1
		_	_	+-	-	_	_
					L		Ι
L Usta D					I	ı	I
Property VULC	Record . Cominco AN District Hole No. Yu-84-1	Page 6					
Drill Hole R	Record AN District Hole No. Vy-84-1 Location Tests at Hor. Comp.		-				
Property YULC Commenced Completed	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp.		-			9	
Property VULCA Commenced Completed Co-ordinates	Core Size Corr. Dip Vert. Comp. True Brg. Logged by		-	-	į.	ar Dip	
Property YULC Commenced Completed	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp.		-	Claim	T Brg.	Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	Core Size Corr. Dip Vert. Comp. True Brg. Logged by		Length	Claim		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vy-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by N. Recov. Date	Sample		S Claim		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by N. Recov. Date	Sample		Claim		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vy-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. logged by Recov. Date GABBRO - Con't	Sample		Ana Claim		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by N. Recov. Date GABBRO - Con't 91.2 - 91.45 m - Irregular quartz veining to 6 cm wide with course blebs	Sample		CCaim		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by N. Recov. Date Description GABBRO - Con't 91.2 - 91.45 m - Irregular quartz veining to 6 cm wide with course blebs of po to 3x7 cm across. Disseminated-appearing po is present for ~15 cm	Sample		Ana		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by N. Recov. Date GABBRO - Con't 91.2 - 91.45 m - Irregular quartz veining to 6 cm wide with course blebs	Sample		Ana Casim		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by N. Recov. Date Description GABBRO - Con't 91.2 - 91.45 m - Irregular quartz veining to 6 cm wide with course blebs of po to 3x7 cm across. Disseminated-appearing po is present for ~15 cm	Sample		an Ana		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by N. Recov. Date Description GABBRO - Con't 91.2 - 91.45 m - Irregular quartz veining to 6 cm wide with course blebs of po to 3x7 cm across. Disseminated-appearing po is present for ~15 cm	Sample		E G		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by N. Recov. Date Description GABBRO - Con't 91.2 - 91.45 m - Irregular quartz veining to 6 cm wide with course blebs of po to 3x7 cm across. Disseminated-appearing po is present for ~15 cm	Sample		ACGELLE		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by N. Recov. Date 91.2 - 91.45 m - irregular quartz veining to 6 cm wide with course blebs of po to 3x7 cm across. Disseminated-appearing po is present for ~15 cm both above and below the quartz veining.	Sample		Ana		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	AN District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by No. Recov. Date Description GABBRO - Con*t 91.2 - 91.45 m - irregular quartz veining to 6 cm wide with course blebs of po to 3x7 cm across. Disseminated-appearing po is present for ~15 cm both above and below the quartz veining. At 92.4 m, 3 narrow po veinlets (0.5-1 mm wide) occur within a bleached,	Sample		and Arian		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	Description GABSRO - Con't 91.2 - 91.45 m - irregular quartz veining to 6 cm wide with course blebs of po to 3x7 cm across. Disseminated-appearing po is present for ~15 cm both above and below the quartz veining. At 92.4 m, 3 narrow po veinlets (0.5-1 mm wide) occur within a bleached, altered zone 4 cm wide.	Sample No.		E G G G		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	Description GABSRO - Con't At 92.4 m, 3 narrow po veinlets (0.5-1 mm wide) occur within a bleached, altered zone 4 cm wide. A few other narrow (~0.5-1.0 cm) quartz veins with po occur within the rest	Sample No.		ACG CORRES		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	District Location Core Size Corr. Dip True Brg. N Recov. Date Description GABBRO - Con't 91.2 - 91.45 m - irregular quartz veining to 6 cm wide with course blebs of po to 3x7 cm across. Disseminated appearing po is present for ~15 cm both above and below the quartz veining. At 92.4 m, 3 narrow po veinlets (0.5-1 mm wide) occur within a bleached, altered zone 4 cm wide. A few other narrow (~0.5-1.0 cm) quartz veins with po occur within the rest of the gabbro. These are usually at 45° to 80° to core axis. Po occurs within the rest of the gabbro. These are usually at 45° to 80° to core axis. Po occurs within the rest of the gabbro. These are usually at 45° to 80° to core axis. Po occurs within the rest of the gabbro. These are usually at 45° to 80° to core axis. Po occurs within the rest of the gabbro. These are usually at 45° to 80° to core axis. Po occurs within the rest of the gabbro. These are usually at 45° to 80° to core axis. Po occurs within the rest of the gabbro. These are usually at 45° to 80° to core axis. Po occurs within the rest of the gabbro. These are usually at 45° to 80° to core axis. Po occurs within the rest of the gabbro. These are usually at 45° to 80° to core axis. Po occurs within the rest of the gabbro.	Sample No.		Ana		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	Description GABSRO - Con't At 92.4 m, 3 narrow po veinlets (0.5-1 mm wide) occur within a bleached, altered zone 4 cm wide. A few other narrow (~0.5-1.0 cm) quartz veins with po occur within the rest	Sample No.		and Company		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective Contage and Form To 80.4 - 123.20m	Description Sabara - Con't District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. 'ogged by N. Recov. Date Description GABBRO - Con't S1.2 - 91.45 m - irregular quartz verining to 6 cm wide with course blebs of po to 3x7 cm across. Disseminated-appearing po is present for ~15 cm both above and below the quartz verining. At 92.4 m, 3 narrow po verinlets (0.5-1 mm wide) occur within a bleached, altered zone 4 cm wide. A few other narrow (~0.5-1.0 cm) quartz verins with po occur within the rest of the gabbro. These are usually at 45° to 80° to core axis. Fo occurs with the quartz verins as verinlets 8 blebs.	Sample No.		E P P P P P P P P P P P P P P P P P P P		Collar Dip	
Property YULC. Commenced Completed Co-ordinates Objective	Description GABBRO - Con't Description GABBRO - Con't At 92.4 m, 3 narrow po veinlets (0.5-1 mm wide) occur within a bleached, altered zone 4 cm wide. A few other narrow (~0.5-1.0 cm) quartz veins with po occur within the rest of the gabbro. These are usually at 45° to 80° to core axis. Po occurs with the quartz veins as veinlets & blebs.	Sample No.		A Casim		Collar Dip	
Property VULC. Commenced Completed Co-ordinates Objective Contage and Form To 80.4 - 123.20m	Description Sabara - Con't District Hole No. Vu-84-1 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. 'ogged by N. Recov. Date Description GABBRO - Con't S1.2 - 91.45 m - irregular quartz verining to 6 cm wide with course blebs of po to 3x7 cm across. Disseminated-appearing po is present for ~15 cm both above and below the quartz verining. At 92.4 m, 3 narrow po verinlets (0.5-1 mm wide) occur within a bleached, altered zone 4 cm wide. A few other narrow (~0.5-1.0 cm) quartz verins with po occur within the rest of the gabbro. These are usually at 45° to 80° to core axis. Fo occurs with the quartz verins as verinlets 8 blebs.	Sample No.		Ana		Collar Dip	

Property VIII CAN	e 17, 1984	District Location Line 2400N	Hole No. Vu-84-2 Tests at 122m	Hor. Comp.	86.5m		7 11	Az 1300	-450
	e 18, 1984	Core Size NQ	Corr. Dip -45 ⁰	Vert. Comp.	86.5m		1 5	7	
Co-ordinates			True Brg. AZ 130 ⁰	Logged by	PK				음
Objective Tes	t EM Conductor	f	% Recov. >99%	Date July	11, 19	84	E	910	*
					-	_	100		8
Footage To	Description			Contract Set Contract	Sample No.	Length	Anan	618	
	Overburden;	casing; no core							
20 1 - 42 2m	ALDRIDGE FOR	MATION METASEDIMENTS							
	THE PART I SHI		th a few medium thick beds. Me	ed-dark blue-gray		200			
			light blue-gray. Wacke, quart						
			esent; a moderate alteration ha						
			tion has occurred. Small (& -						
			throughout. Bedding planes an				_		
			Ithough a few examples of lens:				1	_	
		layers are present.			-		+	⊢	_
					-	_	-	_	-
		Pyrrhotite occurs within 2.	10 cm long zones, associated w	ith an increased		_	-	_	
		biotite content at 28.5 m and	d 40.9 m, as apparently dissem	inated grains, Po	-		_	_	_
		content is about 10 or 15% w	ithin these narrow zones. A fe	ew narrow, irregular	-	-	-	-;	
		qtz veins are present. One	at 35.5 m is 1-1.5 cm wide and	contains minor	-	-	+	-	-
		Pbs.			-	-	+	-	-
		0			_	+	+	\vdash	\vdash
		Bedding angle: 20.3 m - 75°	; 31.5 m - 65°; 36.5 m - 65°; 4	40.2 m - 70°	+-	-	+	\vdash	\vdash
						_	+	-	-
-		Contact with underlying cabb	ro is in broken core but looks	conformable with		-	+	\vdash	\vdash
			To 13 III DI OKEII COTE DEC 100KS	COMPONIENTE WICH	-	+-	+	-	
		bedding,			_	_	+	-	-

Property YULC		Hole No. Vu-84-2	••							
Commenced	Location	Tests at	Hor. Comp.			1 1				
Completed	Core Size	Corr. Dip	Vert. Comp.				1			
Co-ordinates		True Brg.	Logged by	1116				음		
Objective		% Recov.	Date			E	Bro	1	*	
						0	-	3	Ele	
Footage From To	Description			Sample	Langua	Analy	als	_		
23000				-	1				-	
				-	-	\vdash	\vdash	-	-	
					+-	\vdash		-	-	
				_	+	\vdash			-	_
42.2 - 68.8m	GABBRO At contact with o	overlying seds, gabbro is med-dark green	· ·	\vdash	-				_	
12.12 00.00		to core axis, essentially parellel to	tine-grained and	-	+-	\vdash			-	
	CONTRACT CONTRACT	to core axis, essentially parellel to	pedding, 6 ain size	-	-	\vdash		\vdash	_	
-		through med; grained to coarse grained		-	-		. "	-	_	
		y, probably a sill. Hineralogy is green		-	-					
		r and gray quartz. Biotite is common th		_	-	-			_	
		cally abundant in narrow zones. Qtz vei			_	-				
	veins from 1 mm t	to 10 cm wide are scattered through the	gabbro, at attitudes		-					
	from 30° to 70° t	to core axis. Irregular blebs and veinl	ets of po are associated							
		ins. Zones within the gabbro are weakly								
	calcareous - loca	ally associated with qtz-calcite veins,	locally biotite-rich			-	•			
	zones.									1
					12					۰
	A moderate foliat	tion is present through most of the core	but is not ubiquitous.							٠
		s med-coarse grained down to the underl			1					ě
				- 30						۰
68.8 - 95.4m	STRONGLY ALTERED METASEDIMENTS									
	Contact at 68.8 m	is not distinct, but is somewhat grada	tional over 1 nr 2					\vdash		1
		the contact appears to be about 60° or			_	-				4

	ecord	Page 3			1	1
Property VUL	CAN District Hole No. VU-84-2					
Commenced	Location · Tests at Hor. Comp.		-	4	1	1
Completed	Core Size Corr. Dip Vert. Comp.					1
Co-ordinates	True Brg. Logged by			7	1	8
	% Recov. Date			75	ø	12
Objective	A nevot.			18	Brg	Collar Dip
cotage	Description	Sample No.	Length	Ana	lysie	
rom To		No.	-	-	+	+
68.8 - 95.4m	STRONGLY ALTERED METASEDIMENTS - Con't	-	-	-	+	+
	Overall color is med. blue-gray, typically med. grained & foliated to a	-	-	+-	+	+
	variable degree of intensity. Prominent attitude of foliation is about 60°	-	-	-	+	+-
	to core axis.		-	+	+	+
		-	+	-	+	+
	Qtz, feldspar and biotite predominate with chlorite present locally. Pyrrhotit	e	-	-	+	-
	occurs as irregular blebs disseminated through the core and within veinlets			_	-	1
	of quartz and qtz-calcite which are fairly common. Hinor chalcopyrite is			1		1
	locally associated with the po. Arsenopyrite is present at a few localities;					
	as small (1-3 mm) grain aggregates scattered through the core near 87.6 m and		1			
	as larger grain aggregates (to -6 mm across) along and associated with a					
Victoria V	small shear at 94.0 m. Minor cpy is associated with the aspy at a few spots.					
-		1				
	Pink garnets occur as irregular grain aggregates to ~1 cm diam. scattered				_	
	through the metasedments At 71.8 m a 3 cm wide shear zone at 30° to core axis					
-	contains graphite as very narrow (<0.5 mm) veinlets which appear discontinuous				1	1
	but interconnected.			1		
	DUC INCERCUMENCES.	1		1		+
		-		-	+	+
		-	_	+	+	+
		-	+	+	+	+
	At 73,3 m a 30 cm length of core contains abundant pyrrhotite and graphite	+	-	+	+	+
	as an interconnected network of blotchy patches within the metasediments.	1				- 1
Drill Hole R		ne 4	_	1		
roperty VULCA	ecord District Hole No. Vu-84-2	ne 4				
Property VIII CAI	ecord District Hole No. V _{II} -84-2 Location Tests at Hor. Comp.	ge 4				
Property VIII CAI Commenced Completed	District	ne 4				
Property VIII CAI	ecord District Hole No. V _{II} -84-2 Location Tests at Hor. Comp.	ge 4				Dip
Property VIII CAI Commenced Completed	District	ge 4		mie	Bro.	
Property VIII CAI Commenced Completed Co-ordinates	District			17	T 8rp.	Collar Dip
Property VIII CAI Commenced Completed Co-ordinates	District	Semple	Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective	Becord District Hole No. VII-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by K Recov. Dete		Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective	District		Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	Becord District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Verl. Comp. True Brg. Logged by % Recov. Date Description STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces		Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	Becord District Hole No. V _{II} -84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by No. Recov. Date		Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	Becord District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Verl. Comp. True Brg. Logged by % Recov. Date Description STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces		Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by **Recov.** Dete STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine-grained dark brown needles, typically proximal to narrow po-bearing qtz veins.		Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Hole No. V _{II} -84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by **Recov. Deta STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine-grained dark brown needles, typically proximal to narrow po-bearing qtz veins. At 91.2 m a 30 cm wide qtz vein with minor calcite contains irregular blotchy		Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Hole No. Viu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by M. Recov. Date STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine-grained dark brown needles, typically proximal to narrow po-bearing qtz veins. At 91.2 m a 30 cm wide qtz vein with minor calcite contains irregular blotchy masses of fine-grained black or very dark brown tournaline crystals.		Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Location Tests at Hor. Comp. Core Size Corr. Dip True Brg. Logged by Recov. Dete STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine- grained dark brown needles, typically proximal to narrow po-bearing qtz veins. At 91.2 m a 30 cm wide qtz vein with minor calcite contains irregular blotchy masses of fine-grained black or very dark brown tournaline crystals. Immediately below the qtz vein at 91.5m is a 10cm zone of med. blur-gray		Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by **Recov.** Date Description STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine-grained dark brown needles, typically proximal to narrow po-bearing qtz veins. At 91.2 m a 30 cm wide qtz vein with minor calcite contains irregular blotchy masses of fine-grained black or very dark brown tournaline crystals. Inmediately below the qtz vein at 91.5m is a 10cm zone of med. blue-gray material containing coarse blebs of pyrrhotite (to 2 cm across).	Sample	Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Location Tests at Hor. Comp. Core Size Corr. Dip True Brg. Logged by Recov. Dete STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine- grained dark brown needles, typically proximal to narrow po-bearing qtz veins. At 91.2 m a 30 cm wide qtz vein with minor calcite contains irregular blotchy masses of fine-grained black or very dark brown tournaline crystals. Immediately below the qtz vein at 91.5m is a 10cm zone of med. blur-gray	Sample	Length	17		
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Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Hole No. Vij-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by **Recov. Date Description STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine-grained dark brown needles, typically proximal to narrow po-bearing qtz veins. At 91.2 m a 30 cm wide qtz vein with minor calcite contains irregular blotchy masses of fine-grained black or very dark brown tournaline crystals. Immediately below the qtz vein at 91.5m is a 10cm zone of med. blur-gray material containing coarse blebs of pyrrhotite (to 2 cm across). At cm wide calcite vein at 60° to core axis underlies this po-rich	Sample	Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Hole No. Vij-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by **Recov. Date Description STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine-grained dark brown needles, typically proximal to narrow po-bearing qtz veins. At 91.2 m a 30 cm wide qtz vein with minor calcite contains irregular blotchy masses of fine-grained black or very dark brown tournaline crystals. Immediately below the qtz vein at 91.5m is a 10cm zone of med. blur-gray material containing coarse blebs of pyrrhotite (to 2 cm across). At cm wide calcite vein at 60° to core axis underlies this po-rich zone. The calcite vein contains an irregular veinlet of fine	Sample	Length	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Hole No. Vyu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by % Recov. Date Description STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine-grained dark brown needles, typically proximal to narrow po-bearing qtz veins. At 91.2 m a 30 cm wide qtz vein with minor calcite contains irregular blotchy masses of fine-grained black or very dark brown tournaline crystals. Immediately below the qtz vein at 91.5m is a 10cm zone of med. blur-gray material containing coarse blebs of pyrrhotite (to 2 cm across). 'A 1 cm wide calcite vein at 60° to core axis underlies this po-rich zone. The calcite vein contains an irregular veinlet of fine grain black tournaline. "Disseminated" po with blebs to 2 mm	Sample	Langth	17		
Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Hole No. Vyu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by % Recov. Date Description STRONGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine-grained dark brown needles, typically proximal to narrow po-bearing qtz veins. At 91.2 m a 30 cm wide qtz vein with minor calcite contains irregular blotchy masses of fine-grained black or very dark brown tournaline crystals. Immediately below the qtz vein at 91.5m is a 10cm zone of med. blur-gray material containing coarse blebs of pyrrhotite (to 2 cm across). 'A 1 cm wide calcite vein at 60° to core axis underlies this po-rich zone. The calcite vein contains an irregular veinlet of fine grain black tournaline. "Disseminated" po with blebs to 2 mm	Sample	Length	17		
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Property VIII CAI Commenced Completed Co-ordinates Objective cotage	District Location Core Size Corr. Dip True Brg. Located by Secov. Description STRUNGLY ALTERED METASEDIMENTS - Con't One fracture which cuts the zone contains graphite on slicken sided surfaces as well as fine-grained pyrite. Hinor tournaline occurs here also as fine-grained dark brown needles, typically proximal to narrow po-bearing qtz veins. At 91.2 m a 30 cm wide qtz vein with minor calcite contains irregular blotchy masses of fine-grained black or very dark brown tournaline crystals. Immediately below the qtz vein at 91.5m is a 10cm zone of med. blur-gray material containing coarse blebs of pyrrhotite (to 2 cm across). 'A1 cm wide calcite vein at 60° to core axis underlies this po-rich zone. The calcite vein at 60° to core axis underlies this po-rich zone. The calcite vein contains an irregular veinlet of fine grain black tournaline. "Disseminated" po with blebs to 2 mm across occurs below the calcite vein. At 91.8 m a 6 mm wide vein of pyrrhotite occurs within a narrow calcaréous zone within the metasediments.	Sample	Length	17		
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roperty VULC	District			-			
o-ordinates	True Brg. Logged by				L	함	1
Objective	% Recov. Date			1	Brg.	offer	ž
oriege D	escription	Sample	Lengt	n Ana		10	14
95.4 - 122.3n	GABBRO	No.	+	-	-	+	+
20,1	Somewhat variable in character; fine, med & coarse grained. Color varies from	_	1	+	+	+	+
	a pale , dull gray-green to a dark green-black color.					+	+
	WI WE A		-	-	-	-	1
	95.4 - 107.3m Dark green to blackish green. Hedcoarse grained, contains biotite as well as amphibole, feldspar and qtz. A weak foliation is locally present at 55°-		+	+-	+	-	+
	60° to core axis. A few marrow qtz-calcite veinlets are present. Occassional		+	-	+	+	+
	sheared qtz veins at ~35° to core axis, 1-3 cm wide, occur with minor po, very		-	+	+	+	+
	minor cpy and aspy. Minor po & very minor aspy & cpy are also found dissen-						1
	inated through the core. The po & cpy occur as small grain aggregates of						T
	usually <1 mm diam. whereas aspy is typically 1-2 mm diam.		-		-	1	1
			-	-	-	-	+
	107.3 - 108.3m Fault contact at 107.3 m; coarse-grained gabbro above is in contact with		-	-	-	+	+
	fine-grained med. green colored strongly foliated gabbro below. Contact is			-	-	+	+
	at 60° to core axis, flattens to 30° within a few cm. Marrow, discontinuous	Name.					1
	en echelon qtz-calcite veins are present in the foliated gabbro. Fine grain						T
	size gradually coarsens toward 108.3 m.		-	-	-	1	1
		-	-	-	-	+	+
				1		1	1
Drill Hole F	4-4	Pone 6					1
Property VII CAN	District Hole No. Vu-84-2 Location Tests at Hor. Comp.	Pone 6					1
Property VUCAN Commenced Completed	District	Pone 6					9
Property VILCAN Commenced Completed Co-ordinates	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by	Pone 6				io.	lar Dip
Property VUCAN Commenced Completed	District Hole No. Vu-84-2 Lecation Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by % Recov. Date				_	T Brg.	Collar Dip
Property VILCAN Commenced Completed Co-ordinates	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Secov. Date	Pone 6	- Le	ingo. A	unaly	T Brg.	Collar Dip
Property VILCAY Commenced Completed Co-ordinates Objective	District Hole No. Vu-84-2 Lecation Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by % Recov. Date		- Le	ingth A	_	T Brg.	Collar Dip
Property VLCAY Commenced Completed Co-ordinates Objective Footage	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Secov. Date		- Le	ingo, A	_	T Brg.	Collar Dip
Property VLCAY Commenced Completed Co-ordinates Objective Footage	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by % Recov. Date Description GABBRO - Con't		h La	ingo. A	_	T Brg.	Collar Dip
Property VLCAY Commenced Completed Co-ordinates Objective Footage	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Secov. Date		in the	mark A	_	T Brg.	Collar Dip
Property VLCAY Commenced Completed Co-ordinates Objective Footage	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by % Recov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weakly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present.	Sampli No.	4 14	Sirings A	_	T Brg.	Collar Dip
Property VLCAY Commenced Completed Co-ordinates Objective Footage	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by % Recov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weakly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present. 110.3 - 113.7m Med. grained, pale gray-green colored. Weak foliation locally at ~50° to core	Sampli No.	* Le	E E E E E E E E E E E E E E E E E E E	_	T Brg.	Collar Dip
Property VLCAY Commenced Completed Co-ordinates Objective Footage	District Hole No. Vij-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Recov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weakly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present. 110.3 - 113.7m Med. grained, pale gray-green colored. Weak foliation locally at ~50° to core axis. A few calcite-qtz veinlets present. At 112.2 m a 4 cm wide calcite-qt.	Sampli No.	h La	and the second s	_	T Brg.	Collar Dip
Property VLCAY Commenced Completed Co-ordinates Objective Footage	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by % Recov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weakly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present. 110.3 - 113.7m Med. grained, pale gray-green colored. Weak foliation locally at ~50° to core	Sampli No.	* Le	Elizabeth A	_	T Brg.	Coller Die
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Property VLCAY Commenced Completed Co-ordinates Objective Footage	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Recov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weakly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present. 110.3 - 113.7m Med. grained, pale gray-green colored. Weak foliation locally at ~50° to core axis. A few calcite-qtz veinlets present. At 112.2 m a 4 cm wide calcite-qtz vein contains minor fine grain black tourmaline.	Sample No.	h La	mark A	_	T Brg.	Collar Dip
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Property VLCAY Commenced Completed Co-ordinates Objective Footage From To 95.4 - 122.3m	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by ** Recov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weakly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present. 110.3 - 113.7m Med. grained, pale gray-green colored. Weak foliation locally at ~50° to core axis. A few calcite-qtz veinlets present. At 112.2 m a 4 cm wide calcite-qtz vein contains minor fine grain black tournaline. 113.7 - 122.3m Med-coarse grained, med-dark gray-green color. No obvious foliation present. Very few calcite-qtz veinlets are present. Hole ends in med-coarse grained gabbro.	Sample No.	# L4	S S S S S S S S S S S S S S S S S S S	_	0.0	88
Property VLCAY Commenced Completed Co-ordinates Objective Footage	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Stecov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weakly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present. 110.3 - 113.7m Med. grained, pale gray-green colored. Weak foliation locally at ~50° to core axis. A few calcite-qtz veinlets present. At 112.2 m a 4 cm wide calcite-qtz vein contains minor fine grain black tournaline. 113.7 - 122.3m Med-coarse grained, med-dark gray-green color. No obvious foliation present. Very few calcite-qtz veinlets are present. Hole ends in med-coarse grained gabbro.	Sample No.	La	united (_	0.0	Coller Dip
Property VLCAY Commenced Completed Co-ordinates Objective Footage From To 95.4 - 122.3m	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by ** Recov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weakly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present. 110.3 - 113.7m Med. grained, pale gray-green colored. Weak foliation locally at ~50° to core axis. A few calcite-qtz veinlets present. At 112.2 m a 4 cm wide calcite-qtz vein contains minor fine grain black tournaline. 113.7 - 122.3m Med-coarse grained, med-dark gray-green color. No obvious foliation present. Very few calcite-qtz veinlets are present. Hole ends in med-coarse grained gabbro.	Sample No.	* 6	E C C C C C C C C C C C C C C C C C C C	_	0.0	88
Property VLCAY Commenced Completed Co-ordinates Objective Footage From To 95.4 - 122.3m	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Recov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weekly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present. 110.3 - 113.7m Med. grained, pale gray-green colored. Weak foliation locally at ~50° to core axis. A few calcite-qtz veinlets present. At 112.2 m a 4 cm wide calcite-qtz vein contains minor fine grain black tourmaline. 113.7 - 122.3m Med-coarse grained, med-dark gray-green color. No obvious foliation present. Very few calcite-qtz veinlets are present. Hole ends in med-coarse grained gabbro.	Sample No.	# L4	S S S S S S S S S S S S S S S S S S S	_	0.0	88
Property VLCAY Commenced Completed Co-ordinates Objective Footage From To 95.4 - 122.3m	District Hole No. Vu-84-2 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Recov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weekly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present. 110.3 - 113.7m Med. grained, pale gray-green colored. Weak foliation locally at ~50° to core axis. A few calcite-qtz veinlets present. At 112.2 m a 4 cm wide calcite-qtz vein contains minor fine grain black tourmaline. 113.7 - 122.3m Med-coarse grained, med-dark gray-green color. No obvious foliation present. Very few calcite-qtz veinlets are present. Hole ends in med-coarse grained gabbro.	Sample No.	Land Land	united A	_	0.0	88
Property VLCAY Commenced Completed Co-ordinates Objective Footage From To 95.4 - 122.3m	District Location Tests at Hor. Comp. Core Size Corr. Dip True Brg. Logged by Recov. Date Description GABBRO - Con't 108.3 - 110.3m Med. grained, dark to med. gray-green colored, weakly foliated at 55°-60° to core axis. A few qtz-calcite veinlets are present. 110.3 - 113.7m Med. grained, pale gray-green colored. Weak foliation locally at ~50° to core axis. A few calcite-qtz veinlets present. At 112.2 m a 4 cm wide calcite-qt: vein contains minor fine grain black tournaline. 113.7 - 122.3m Med-coarse grained, med-dark gray-green color. No obvious foliation present. Very few calcite-qtz veinlets are present. Hole ends in med-coarse grained gabbro. END OF HOLE Survey at 122m Az 124° Dip -44°	Sample No.	* Le	E C C	_	0.0	88

Property VULCA	ill June 19, 1984	District	Line 2000N	Hole No.	Vu-84-3				9 1	00	20	8
Commences	une 20, 1984	Location	NQ	Tools at	-45 ⁰	Hor. Comp.	_		Vulcan	1200	-450	1140m
- Compilered	une 20, 1304	Core Size	114	Corr. Dip	Az 120 ⁰	Vert. Comp.	PK		3	K	Dip	-
Co-ordinates	est EM Conductor			True Brg.	>99%	Date Oct			1	4.1	ar D	
Objective 1	est Ell collegetor			A HILLON					iO.	T Brg	3	3
oolage rom To	Description						Sample No.	Length	Anal	yala		
0 - 12.5m	Casing - no core											
								-	_			
	GABBRO						-	-	-	-	-	-
12.5 - 31.5m	Variably fine & m						-	-	-		\vdash	\vdash
	thick because o/ homogeneous granu							1			-	
	tourmaline needle											
	contact at 31.5m											
						most im of gabbro.						
100	At 15.0 a very na	rrow foliate	d zone about 0.5c	m wide at 55°	to core axis o	contains minor						
	graphite.											
										_		
31.5 - 35.5m	METASEDIMENTS								-		-	
						laminated to massiv	e.	-	_	_	-	-
	silicious, mottle	d. Original	lithology was pr	robably QcW &	W.		_	-	-	-	-	-
						day 14-bt11	-	+-	-	-	-	-
	A few qtz veins a					narrow central band	-	+	\vdash	1	\vdash	
	of black tourmali								-			
	32.3m. Hinor red							+-			$\overline{}$	
						are disseminated		1				
	through much of t						7		\vdash	$\overline{}$		
Drill Hole F						Comineo	Poge 2					
Property VUL	Record .can	District Location		Hole No.	Vu-84-3	Comp.	Page 2					
Property VUL					Vu-84-3	**	Poge 2					
Property VUL Commenced Completed Co-ordinates		Location		Tests at Corr. Dip True Brg.		Hor. Comp. Vert. Comp. Logged by	Poge 2				r Dip	
Property VUL Commenced Completed		Location		Testa at Corr. Dip		Hor. Comp. Varl. Comp.	Poge 2		Jaim	Brg.	Sollar Dip	ler.
Property VUL Commenced Completed Co-ordinates Objective		Location		Tests at Corr. Dip True Brg.		Hor. Comp. Vert. Comp. Logged by		Langth	Claim	-	Collar Dip	Elerv.
Property VUL Commenced Completed Co-ordinates Objective	CAN Description	Location		Tests at Corr. Dip True Brg.		Hor. Comp. Vert. Comp. Logged by	Page 2	Langth	11.3	-	Collar Dip	Elerv.
Property VUL Commenced Completed Co-ordinates Objective	Description GABBRO	Location Core Size		Tests at Corr. Dip True Brg. % Recov.		Hor. Comp. Vert. Comp. Logged by Date		Langth	11.3	-	Collar Dip	Elerv.
Property VUL Commenced Completed Co-ordinates Objective	CAN Description GABBRO Fine-grained, dar	Location Core Size		Tests at Corr. Dip True Brg. % Recov.	e is present th	Hor. Comp. Vert. Comp. Logged by Date		Langth	11.3	-	Collar Dip	Elen.
Property VUL Commenced Completed Co-ordinates Objective	CAN Description GABBRO Fine-grained, dar narrow calcite ve	Location Core Size k green. mor	resent. Otherwis	Tests at Corr. Dip True Brg. % Recov. tacts - highlitese, texture is	e is present th	Hor. Comp. Vert. Comp. Logged by Date Dere. A few very rous. Core is		Langth	11.3	-	Collar Dip	C Elev.
Property VUL Commenced Completed Co-ordinates Objective	CAN Description GABBRO Fine-grained, dar	Location Core Size k green. mor	resent. Otherwis	Tests at Corr. Dip True Brg. % Recov. tacts - highlitese, texture is	e is present th	Hor. Comp. Vert. Comp. Logged by Date Dere. A few very rous. Core is		Langth	11.3	-	Cellar Dip	Dien.
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, dar narrow calcite ve	Location Core Size k green. mor	resent. Otherwis	Tests at Corr. Dip True Brg. % Recov. tacts - highlitese, texture is	e is present th	Hor. Comp. Vert. Comp. Logged by Date Dere. A few very rous. Core is		Langth	11.3	-	Collar Dip	2
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained. dar narrow calcite ve broken at 38.2m b	Location Core Size k green. mor inlets are p	resent. Otherwis	Tests at Corr. Dip True Brg. % Recov. tacts - biotiti se, texture is etaseds appears	e is present th quite homogens s to be at 65-7	Hor. Comp. Vert. Comp. Logged by Date Dere. A few very rous. Core is	Semple No.	Langth	11.3	-	Collar Dip) in the contract of the contr
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, dar narrow calcite ve broken at 38.2m b	k green, mor	resent. Otherwis ith underlying me laminated, thin more massive char	Tests at Corr. Dip True Brg. % Recov. tacts - bintiti se, texture is etaseds appear:	e is present the quite homogenes to be at 65-7 The thicker, sition waries to	Hor. Comp. Vert. Comp. Logged by Date Date A few very rous. Core is Of to core axis.	Sample No.	Langth	11.3	-	Cottar Dip	Eler.
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, darnarrow calcite ve broken at 38.2m b METASEDIMENTS Light-med, blue-care typically mot beds and laminati	k green. mor inlets are p ut contact w	resent. Otherwis ith underlying me laminated, thin more massive char r QW in some of t	Tests at Corr. Dip True Brg. % Recov. tacts - hightite se, texture is staseds appear: A med, hedded, cather composite med, thick	e is present the quite homogeners to be at 65-1 The thicker, sition varies to beds. Hetamore	Hor. Comp. Vert. Comp. Logged by Date Date A few very cous. Core is 10° to core axis. more qtz cich heds from argillite in th	Sample No.	Langth	11.3	-	Collar Dip	2
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, dar narrow calcite ve broken at 38.2m b METASEDIMENTS Light-med, blue-c are typically mot beds and laminati strong: chlorite	k green. mor inlets are p ut contect w ray colored, tled with a ons to Oct o	resent. Otherwis ith underlying me laminated, thin more massive char r QW in some of t are common as al	Tests at Corr. Dip True Brg. % Recov. tacts - hightite se, texture is staseds appear: A med, hedded racter. Composite med, thick iteration mine	o is present the quite homogenes to be at 65-1 The thicker, sition waries no beds. Hetamorrals. Qtz & co	Hor. Comp. Vert. Comp. Logged by Date Date A few very rous. Core is 100 to core axis. more qtx rich heds from argillite in the riphic effects quite.	Sample No.	Langth	11.3	-	Collar Dip	2
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, dar narrow calcite ve broken at 38.2m b METASEDIMENTS Light-med, blue-c are typically mot beds and laminati strong: chlorite scattered through	k green. mor inlets are p ut contact w ray colored, tled with a ons to Ock o and biotite the interva	resent. Otherwis ith underlying me laminated, thin more massive char r QW in some of t are common as al 1; Q.V. range up	Tests at Corr. Dip True Brg. % Recov. tacts - hightite se, texture is staseds appear: A med, hedded racter. Composite med, thick iteration mines to 5cm wide, s	o is present the quite homogenes to be at 65-1 The thicker, sitions a Hetamoreals. Qtz & co	Hor. Comp. Vert. Comp. Logged by Date Date A few very cous. Core is 10° to core axis. more qtz cich heds from argillite in th tphic effects quite ulcite veining are are a few m max.	Sample No.	Langth	11.3	-	Collar Dip	C C C C C C C C C C C C C C C C C C C
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, dar narrow calcite ve broken at 38.2m b MEJASEDIMENTS Light-med, blue-c are typically mot beds and laminati strong: chlorite scattered through thickness. Po 8	k green. mor inlets are put contact work to Oct o and biotite. the intervaless common!	resent. Otherwis ith underlying me laminated, thin more massive char r QN in some of t are common as al l: Q.Y. range up y Py are associat	Tests at Corr. Dip True Brg. % Recov. tacts - hightitise, texture is etaseds appear: A med. hedded racter. Composite med. thick iteration mines to 5cm wide. s ted with some s	o is present the quite homogenes to be at 65-1 The thicker, sitions a Hetamoreals. Qtz & co	Hor. Comp. Vert. Comp. Logged by Date Date A few very cous. Core is 10° to core axis. more qtz cich heds from argillite in th tphic effects quite ulcite veining are are a few m max.	Sample No.	Langth	11.3	-	Coltar Dip	2
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, dar narrow calcite ve broken at 38.2m b METASEDIMENTS Light-med, blue-c are typically mot beds and laminati strong: chlorite scattered through	k green. mor inlets are put contact work to Oct o and biotite. the intervaless common!	resent. Otherwis ith underlying me laminated, thin more massive char r QN in some of t are common as al l: Q.Y. range up y Py are associat	Tests at Corr. Dip True Brg. % Recov. tacts - hightitise, texture is etaseds appear: A med. hedded racter. Composite med. thick iteration mines to 5cm wide. s ted with some s	o is present the quite homogenes to be at 65-1 The thicker, sitions a Hetamoreals. Qtz & co	Hor. Comp. Vert. Comp. Logged by Date Date A few very cous. Core is 10° to core axis. more qtz cich heds from argillite in th tphic effects quite ulcite veining are are a few m max.	Sample No.	Langth	11.3	-	Coller Dip	2
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, dar narrow calcite ve broken at 38.2m b MEJASEDIMENTS Light-med, blue-c are typically mot beds and laminati strong; chlorite scattered through thickness. Po & graphite are pres	k green, mor inlets are p ut contact w ray colored, tled with a ons to Ock o and bintite the interva less commonlisent at a num	resent. Otherwis ith underlying me laminated, thin more massive char r QW in some of t are common as al l: Q.V. range up y Py are associat ber of localities	Tests at Corr. Dip True Brg. % Recov. **Recov. **Aned. hedded racter. Comporthe med. thick Iteration mines to 5cm wide. s ted with some s s.	The thicker, sition varies in the description varies in the descriptio	Hor. Comp. Vert. Comp. Logged by Dele Dele Dele There. A few very cous. Core is 100 to core axis. more qtz cich heds from argillite in the rephic affects quite alcite veining are are a few m max. Inor amounts of	Sample No.	Langth	11.3	-	Collar Dip	2
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, dar narrow calcite ve broken at 38.2m b METASEDIMENTS Light-med, blue-c are typically mot beds and laminati strong: chlorite scattered through thickness. Po 8 graphite are pres	k green, mor inlets are p ut contact w ray colored, tled with a ons to Ock o and bintite the interva less commonlisent at a num	resent. Otherwis ith underlying me laminated, thin more massive char r QN in some of t are common as al l: Q.Y. range up y Py are associat wher of localities et occurs at 15° t	Tests at Corr. Dip True Brg. % Recov. **Recov. **Aned. hedded racter. Comporthe med. thick Iteration mines to 5cm wide. s ted with some s s.	The thicker, sition varies in the description varies in the descriptio	Hor. Comp. Vert. Comp. Logged by Dele Dele Dele There. A few very cous. Core is 100 to core axis. more qtz cich heds from argillite in the rephic affects quite alcite veining are are a few m max. Inor amounts of	Sample No.	Langth	11.3	-	Collect	See.
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, dar narrow calcite ve broken at 38.2m b METASERIMENTS Light-med, blue-c are typically mot beds and laminati strong: chlorite scattered through thickness. Po & graphite are press At 46.2m a lmm wi narrow of	k green. more inlets are put contact war colored. the with a ons to QcW of and biotite. the intervaless commonly the put contact was commonly the intervaless commonly the put at a number of the put contact with the intervaless commonly the put contact and the put contact and the put contact at a number of the	resent. Otherwis ith underlying me laminated, thin more massive char r QW in some of t are common as al l: Q.Y. range up y Py are associat ber of localities et occurs at 15° t 5mm wide).	Tests at Corr. Dip True Brg. % Recov. tacts - hintiti se, texture is. etaseds appear: the med, hedded, racter. Composite med, thick literation mines to 5cm wide, s ted with some of	The thicker, sition wardes to be at 65-1 The thicker, sition wardes to beds. Hetamorrals. Qtz & creating the Q.V. Mi	Hor. Comp. Vart. Comp. Logged by Date Dat	Sample No.	Langth	11.3	-	Collect	2
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, darnarrow calcite ve broken at 38.2m b METASEDIMENTS Light-med, blue-care typically mot beds and laminatistics strong; chlorite scattered through thickness. Po 8 graphite are press	k green. more inlets are put contect we ray colored, then intervaless commonlisent at a number of the py veinled to the intervaless commonlisent at a number of the py veinled to the intervaless commonlisent at a number of the py veinled to the intervaless commonlisent at a number of the py veinled to the intervaled to the py veinled t	resent. Otherwis ith underlying me laminated, thin more massive char r QW in some of t are common as al l: Q.Y. range up y PY are associat ber of localities et occurs at 15° t 5mm wide).	Tests at Corr. Dip True Brg. % Recov. tacts - hightite se, texture is staseds appear: the med, hedded, state med, thick literation mines to 5cm mide, s ted with some s to bedding, as:	The thicker, sition varies for the Q.V. Mi	Hor. Comp. Vert. Comp. Logged by Date	Sample No.	Langth	11.3	-	Collect	2
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, darnarrow calcite ve broken at 38.2m b METASEDIMENTS Light-med, blue-care typically motheds and laminatistic strongs chlorite scattered through thickness. Po 8 graphite are press At 46.2m a lmm with narrow of AT 42.9m a dark are occurring	k green. more inlets are put contact we ray colored, then to 0c of and biotite, the intervaless commonlisent at a number of the colored of th	resent. Otherwis ith underlying me laminated, thin more massive char r QW in some of t are common as al l: Q.Y. range up y Py are associat ber of localities et occurs at 15° t 5mm wide). last is present; lick QcW bed. Sma	Tests at Corr. Dip True Brg. % Recov. tacts - hightite se, texture is staseds appear: the med, hedded, state med, thick literation mines to 5cm mide, s ted with some s to bedding, as:	The thicker, sition varies for the Q.V. Mi	Hor. Comp. Vert. Comp. Logged by Date	Sample No.	Langth	11.3	-	Collect	2
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, darnarrow calcite ve broken at 38.2m b METASEDIMENTS Light-med, blue-care typically motheds and laminatistic strongs chlorite scattered through thickness. Po 8 graphite are press At 46.2m a lmm with narrow of AT 42.9m a dark are occurring	k green. more inlets are put contact we ray colored, then to 0c of and biotite, the intervaless commonlisent at a number of the colored of th	resent. Otherwis ith underlying me laminated, thin more massive char r QW in some of t are common as al l: Q.Y. range up y PY are associat ber of localities et occurs at 15° t 5mm wide).	Tests at Corr. Dip True Brg. % Recov. tacts - hightite se, texture is staseds appear: the med, hedded, state med, thick literation mines to 5cm mide, s ted with some s to bedding, as:	The thicker, sition varies for the Q.V. Mi	Hor. Comp. Vert. Comp. Logged by Date	Sample No.	Langth	11.3	-	Collect	2
Property VUL Commenced Completed Co-ordinates Objective Foctage Foctage Ton To 35,5 = 38,2m	CAN Description GABBRO Fine-grained, darnarrow calcite ve broken at 38.2m b METASEDIMENTS Light-med, blue-care typically motheds and laminatistic strongs chlorite scattered through thickness. Po 8 graphite are press At 46.2m a lmm with narrow of AT 42.9m a dark are occurring	k green. more inlets are put contact we ray colored, then to 0c of and biotite, the intervaless commonlisent at a number of the py veinle of the color of the desire of the color of	resent. Otherwis ith underlying me laminated, thin more massive char r QW in some of t are common as al l: Q.Y. range up y Py are associat ber of localities et occurs at 15° t 5mm wide). last is present; lick QcW bed. Sma	Tests at Corr. Dip True Brg. % Recov. tacts - hightite se, texture is staseds appear: the med, hedded, state med, thick literation mines to 5cm mide, s ted with some s to bedding, as:	The thicker, sition varies for the Q.V. Mi	Hor. Comp. Vert. Comp. Logged by Date	Sample No.	Langth	11.3	-		Oolia

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Property VIII	.CAN	District	Hole No. Yu-84-3	Cominco 8	106 3						
Commenced		Location	Tosts at	Hor. Comp.							
Completed		Core Size	Corr. Dip	Vert, Comp.							
Co-ordinates	nates True Brg. Logged by						1		8		
Objective			% Recov.	Date			E	Brg.	sella	×	
Poolage	Description				Sample No.	Length	13	-	18_	<u> </u>	
38.2 - 103.0m	METASEDIMENTS - Co	-1+			- Ind.	-					
38.2 - 103.00			s at about 80° to core axis, ab	out 250 to hedding. 7nS	1	+-	-		1		-
			. Minor fine grained po is als								
	12 160012	n-brown, nea. grainea	. This time grantes po 12 are	o presenti							-
	From 86.0m to 88.1	much of the bedding	is slightly disrupted; wavy bed	ding, lensey							-
			parent isoclinal folds are evid								
	From 100.3m - 103.0	m contact effect of t	he underlying gabbro is evident	by brownish oxidation,							
		yellowish bleaching a	long fractures. Core is slight	ly more broken in this							
		interval.									
	Contact at 103.0m	is at 750to core axis	, indicating the underlying gab	bro is probably a sill.							
	Bedding within the	interval varies from	65° to 80° to core axis.		-		_				_
					_	-	-		1		_
103.0 - 117.1m	GABBRO				_	-	-	<u></u>	-	_	
	THE RESERVE OF THE PARTY OF THE	Name and Address of the Owner, where the Party of the Owner, where the Party of the Owner, where the Owner, which is the Own	mphibòle appears largely altere		-	-		_	-	_	_
-			bluish-gray qtz are evident. N		-	-	-	_	-	-	-
	present, varying f	rom 45° to 10° to cor	e axis with flatter attitudés m	ost common.	+	+	\vdash	-	+	-	-
	A few qtz veins ar	e also present; mear	104.3m, at 10-20 ⁰ to core axis,	2cm wide, and at							_
			g, at 35° to core axis.	The state of the s	-	-	-		-	-	
					-	-	-	-	-	-	-

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Drill Hole Re						CON	minoa P	Page 1				
Property VULCAN		District		Hole No.	The second secon	5713					1	
Commenced June		Location	Line 3800N	Tests at		Ho	r. Comp.		+ 1	1		
Completed July	1, 1984	Core Size	NQ	Corr. Dip		Ver	rt. Comp.	1 - C - T.				
Co-ordinates				True Brg	Az 1150	Lor	gged by	PK		-		o D
Objective	TEST HLEM CONE	DUCTOR		% Recov	. ∿99%	Da	te Sept.1	1984		E	Bro	Ila.
	1-1-2							To a	1	ō	-	8
From To	Description							Sample No.	Length	-	1	
0 - 2.13m	Casing: no core	recovered	- Land Control									
2.13- 30.90m	WACKE AND QUART	ZITIC WACKE										
	Thin and med. b	edded to lamir	nated generally m	med. gray colo	red; numerous	fractures are	rusty-					
	exidized from s	urface weather	ring. Local roun	nded, elongate	rip-up clasts	s and small-sc	ale ripple					
			ome current activ							0		
			soft sediment de							-		
	Near 28.7 m a 1	ew elongsted	clasts occur orie	ented at low a	ngles to bedd	ing i.e. not p	arallel.	1	-	+-	+	
		A 27. 1.22 14 4 2 7 CT. 17										
	Hoderate metano	rphic effects	are evident thro	aughout; small	biotite grain	ns are present	and					
		and the same of the same of the same of	exture may be due									
		Andrew or other service										
	A few qtz vein	are present.	up to 5cm wide,	, most 2cm wi	de; typically	at high angle	s to the					
			bedding, a few p									
			te & galena occur									
	core axis.											
				THE COLUMN	-5-1-200	S VICE TO 1	25-met.95.3		1.			
30,90- 43,30m	GABBRO		A THE STREET OF THE			200						
	30.9 - 40.0m /	aray-green col	ored, med. graine	ed, moderately	foliated at	60° to core a	xis.					
			ibole and biotite									
			d thoughout. Qtz						4	100		

Drill Hole Re	ecord		Cominco	oge 2					
Property VULCAN		Hole No. VU-84-4							
Commenced	Location	Tests at	Hor. Comp.			1			
Completed	Core Size	Corr. Dip	Vert, Comp.			1			
Co-ordinates		True Brg.	Logged by			-		8	
Objective		% Recov.	Date			E	Brg.	le le	2
				I.	I	Anal	-	8	ű
Footage From To	escription			Sample No.	Length		-		-
30.90- 43.30m	GABBRO - Con't		121313000						Ī
	30.9 - 40.0m-present in the upper meter of this :	zone. Minor Aspy is loca	11y present.				773		Ī
	(con't)								
	At 33.5m a 10cm long zone of metased	diments occurs, laminated,	with bedding at						Ī
	30° to core axis.								Ī
	40.0 - 43.3m-Biotite-rich zone. "Contact" near 4	0.0m is gradational with	hornblende decreasing						
	downward & biotite increasing. Fol								
	of the different mineralogy, Minor	po & aspy are locally pr	esent. The entire						
	zone is moderately calcareous. Qtz-	-calcite veins near 41.9m	are about 1cm wide,						
	somewhat irregular, have minor brec	ciation associated with t	hem. This biotite-			1			
100000	rich zone may be a meta sediment bu	t the gradational change	from overlying						
	amphibole-bearing gabbro & local ph	ases of more granular tex	ture with feldspars						
	& amphibole present indicate that t	his is a biotitic phase o	f the gabbro.						
43.30- 81.00m	WACKE AND SUBWACKE - minor ARGILLITE and QUARTZI	TIC HACKE							
	Thin bedded to laminated, gray to blue-gray in c	olor. Most beds, laminat	ions have sharp planar						
	bedding contacts but many are irregular on a sma	11 scale, showing evidence	e of current activity.						
	Locally ripple cross laminations, small rip-up c	lasts and small-scale way	y bedding are evident.						
1	Po & py are common as very minor constituents, o	ccurring locally as v. sr	all irregular veinlets.						
7 70	Near 46.3m one such irregular po veinlet carries								ĺ

	u		Hole No. VU-84-	Cominoo				+	T	
Property VULCA	N District		Tests at	Hor. Comp				1		
Commenced	Core 5		Corr. Dip	Vert. Comp			1	100		
Completed Co-ordinates	Core o		True Brg.	Logged by			1	31	8	
Objective			% Recov.	Date			E	Bro	1	
yupening.							_	-	8	
cotage To	Description				Sample No.	Length	knaly	1		
43.30-81.00m	WACKE AND SUBWACKE - mino	r ARGILLITE and (QUARTZITIC WACKE - Con't							
45.55-51.65			nlets, occur throughout the	interval, usually at				3		
			to bedding. A few thicke				10	1	Г	
	the bedding at 145°. The							П		
	the security of the t									
	At 53 5m Pv. PhS and v. m	inor cov occur a	long an apparent unconforma	ble contact - an elongat	e		2			Ì
			over the mineralized horiz				1		Г	
	Clase of Tripple Class-Tell	111111111111111111111111111111111111111	Office and annual annua							
							1	.+.	\vdash	Ī
000	At 67 Sm s 2cm wide boddl	inn-narallel hand	/bed is dark gray in color.	blotchy in texture.						
		CONTRACTOR DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS		Total In Control of					1	
	comprised of graphite, py	rice, dez piens a	T. MINOR CENCINE.	120	- 75					
									1	
		-				1	-		_	-
			ran and restricted to the second second		_	1	94-7			
	and the first contract of the		ken core, contains graphite	and the same the same and the s	-		1		1	-
		The state of the s	of metamorphism is not grea			1	1	1		T
			red. Y. small (fine-grains				+	1	-	
-	biotite are present local	lly. Minor foldir	ng, usually restricted to r	arrow zones within the		1	+	1: 1	+	-
	bedding, may be tectonic	or soft sediment	deformation. Core angle i	s about 70°-80° throught	ut-	+	+	Н	+	-
							+	H	-	
						1 1	. 1	1 1		
							11			ī
Drill Hole R	ecord		7	Cominco	Page 4		† - 		1	
Drill Hole R		ci	Hole No. Vu-8	6-4	Page 4	-	7.			
1000	***		Hole No. VU-8	6-4		-	7.			
Property VUL	CAN Distrib	tion		4-4	0.	-	7.			
Property VUL	CAN Distric	tion	Tests at	4-4 Hor. Com	p.	-	7.		Dip	
Property VUL Commenced Completed	CAN Distric	tion	Tests at Corr. Dip	4-4 Hor. Com Vart. Com	p.	-	ile min		Nar Dip	
Property VUL Commenced Completed Co-ordinates Objective	CAN Distric	tion	Tests at Corr. Dip True Brg.	4-4 Hor. Com Vert. Com Logged b	р. У	-	Claim	T Brg.	Collar	
Property VUL Commenced Completed Co-ordinates	CAN Distric	tion	Tests at Corr. Dip True Brg.	4-4 Hor. Com Vert. Com Logged b	p.	Langth	anA	T Brg.	Collar	
Property VUL Commenced Completed Co-ordinates Objective	CAN District Locat Core Core Core Core Core Core Core Core	Size	Tests at Corr. Dip True Brg. % Recov.	Hor. Com Vert. Com Logged b Date	р. У	Length	Claim	T Brg.	Collar	
Property VUL Commenced Completed Co-ordinates Objective Feetage From Te	CAN District Locat Core : Description GABBRO Moderately foliated asse	size	Tests at Corr. Dip True Brg. % Recov.	Hor. Com Vert. Com Logged b Date	р. У	Langth	Claim	T Brg.	Collar	
Property VUL Commenced Completed Co-ordinates Objective Feetage From Te	CAN District Locat Core : Description GABBRO Moderately foliated asse	size	Tests at Corr. Dip True Brg. % Recov.	Hor. Com Vert. Com Logged b Date	р. У	Length	Claim	T Brg.	Collar	
Property VUL Commenced Completed Co-ordinates Objective Featage From Te 81.00- 82.70ri	CAN District Locat Core Core Core Core Core Core Core Core	size	Tests at Corr. Dip True Brg. % Recov.	Hor. Com Vert. Com Logged b Date	р. У	Length	Claim	T Brg.	Collar	
Property VUL Commenced Completed Co-ordinates Objective Feetage From Te	CAN District Locat Core : Description GABBRO Moderately foliated asse	size	Tests at Corr. Dip True Brg. % Recov.	Hor. Com Vert. Com Logged b Date	р. У	Langth	Claim	T Brg.	Collar	
Property VUL Commenced Completed Co-ordinates Objective Featage From Te 81.00- 82.70ri	CAN District Local Core Core Core Core Core Core Core Core	mblage of chlorit	Tests at Corr. Dip True Brg. % Recov.	Hor. Com VerL Com Logged to Date & minor calcite. Dark to core axis.	p. y Sample No.	Length	Claim	T Brg.	Collar	
Property VUL Commenced Completed Co-ordinates Objective Featage From Te 81.00- 82.70ri	CAN District Local Core Core Core Core Core Core Core Core	mblage of chlorit coliated texture.	Tests at Corr. Dip True Brg. % Recov. te, qtz, biotite, feldspar Foliation occurs at 165°	Hor. Com VerL Com Logged to Date & minor calcite. Dark to core axis.	p. y Sample No.	Langth	Claim	T Brg.	Collar	
Property VUL Commenced Completed Co-ordinates Objective Featage From Te 81.00- 82.70ri	CAN District Locat Core: Core: Description GABBRO Moderately foliated asse green color, speckled, f	mblage of chlorit coliated texture.	Tests at Corr. Dip True Brg. % Recov. te, qtz, biotite, feldspar Foliation occurs at 165°	Hor. Com VerL Com Logged to Date & minor calcite. Dark to core axis.	p. y Sample No.	Langth	Claim	T Brg.	Collar	
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92.70- 93.00m MACES AND SUBMECT - Con't Bedding is distored in this sectionically disturbed zone from 84.5m to 88.0m. A few physpatic (12 verins 2-5m wide, occur near 85.0m. At 86.6m a 1 cm wide trregular quar-calcite verin cuts across the core at 40° to core axis and also cuts a series of em-chelon habited fractures. At 91.6m a 5cm leopth of core is dark blue-gray, hand & dense; probably a siliceous zone. Base of this interval, at 92.0m, is a 6m zone of contorted, finely laminated submacts with included verinities of pyrise, Bedding attitude is at 65-70° to core axis. 93.00-93.40m Altered, silicified MCASCOPHRITS Med-dark blue-gray colored, fine-grained, hard, presumably silicified. Bleaching is common included verinities of pyrise, Bedding attitude is at 65-70° to core axis. 94.40-95.90m SIDITIC MCINSCOPHRITS 100mmono Popper 100mmono P		Description	54	mple	Length	Ana	yala	10	160
Bedding is distorted in this sectonically disturbed zone from 84.0e to 88.0e. A few plyspatic qtz veins 2-6em wide, occur mare 85.0e. At 66.6e a 1 cm wide irregular qtz-ctalctie win cuts across the core at 40° to core axis and also cuts a series of en-echelon healed fractures. At 91.45e a 5cm length of core is dark blue-gray, hard & dense; probably a siliceous zone. Base of this interval, at 19.0e. is a 4cm zone of contorted, infelly laminated submacks with included veinlets or pyrite. Bedding attitude is at 65.70° to core axis. 93.00-93.40m Altered, silicified METASIDINETS 93.00-93.40m Red-dark blue-gray colored, fine-grained, hard, presumably silicified. Bleaching is common in the lower 50cm with gray and pale green coloration along healed fracture zones. Very sarrow qut weinlets are scattered through the interval, holdly with minor pyrite. 94.40-95.90e 8100THIC METASIDINETS Samples for escchenical analysis Foliated dull brown-green color, fine-grained, Predesinantly blottle (locally chloritic), quartz, feldspar, amon pyrinotic, very sinor exercised. Quartz a biotite are the main minor calcite. Testure is fine-grained, moderately foliated. Quartz a biotite are the main sinors of the color of the second sinor pyrite. Drill Hole Record Description Namese Description Similar to instead around the qtg grains. The entire zone is weatly calcardous. Similar so instead and pyrinolise in a reticulate network around elocoate sussess of quartz Activities are surfaced by the core axis. Similar to instead event winded for geochemical analysis Similar to instead event similar to instead around the pyrhotite are quite strongly foliated around the of the core axis. Similar to instead event probable of of structuring analysis Similar to instead event probable of of structuring around a loc		WACKE AND SUBWACKE - Con't	- M		_	-	+	+	+
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Med-dark blue-gray colored, fine-grained, hard, presumably silicified. Bleaching is common in the lower Soca with gray and pale green coloration along healed fracture zones. Very narrow qtz verinists are scattered through the interval. locally with minor pyrite. 94.40-96.90m BIOTITIC METASEDIMENTS Sampled for geochemical analysis			-	-				F	-
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Foliated dull brown-green color, fine-grained. Predominantly blootite (locally chloritic), quartz, feldspar, almor pyrhotite, very minor arsenopyrite as fine-grained crystals and minor calcite. Testure is fine-grained, moderately foliated. Quartz blootite are the main minorals & the qtz appears to be sedimentary grains; blotite, feldspar & pyrrhotite form a Drill Hole Record Diamico Pioper								T	T
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minor calcite. Texture is fine-grained, moderately foliated. Quartz & blotte are the main minerals & the qtz appears to be sedimentary grains; blotte, feldspar & pyrrhotite form a Drill Hole Record Property VIII CAN District Hole No. Yu-84-4 Commenced Location Tests at Hor. Comp. Commissed Corr. Olp Vert. Comp. Completed Opicative N. Recov. Date Continuates Description Shottitic METASEDIMENTS - Con't matrix which is foliated around the qtz grains. The entire zone is weakly calcaréous. 96.90-97.25e 0.35e QUARTZ VEIN sampled for geochemical analysis Foliated white qtz vein with abundant pyrrhotite. v. minor cov. and pink and v. pale greenish feldspars (7) common in the lower 10cm. Signifiar to interval 94.4 - 96.9m but with a central 10cm zone of massive.foliated pyrrhotite containing irregular rounded pods of qtz-calcite & v. minor cov. The biotitic metasediments adjacent to the pyrrhotite are quite strongly foliated a pyrrhotite core axis. 197.25-99.80m SILICEOUS METASEDIMENTS 2 ampled for geochemical analysis Light to med. gray colors. foliated, nottlod, very siliceous.							1	1	1
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Drill Hole Record Property VIII CAN District Hole No. Vu-84-4 Commenced Location Tests at Hor. Comp. Corrolled Completed Corrolled Corrolled Corrolled True Brg. Logged by Corrolled True Brg. Logged by Corrolled True Brg. Logged by Sample To Description To BIOITITIC METASEDIMENTS - Con't matrix which is foliated around the qtr grains. The entire zone is weakly calcardous. 96.90-97.25m O.35m QUARTZ VEIN sampled for geochemical analysis Foliated white qtr vain with abundant purrhotite, v, minor cov, and pink and v, pale greenish feldspars (7) common in the lower 10cm. 81otite occurs as v, narrow veinlets in a reticulate network around elongate masses of quartz \$ d. qtr-feldspar. 97.25-97.55m BIOITITIC METASEDIMENTS Sampled for geochemical analysis Similar to interval 94.4 - 96.9m but with a central 10cm zone of massive, foliated purrhotite containing irregular rounded cods of str-calcite \$ v, minor cov. The biotitic metasediments adiacent to the pyrrhotite are quite strongly foliated at 160° to the core axis. 97.25-99.80m SILICEOUS METASEDIMENTS Sampled for geochemical analysis Light to med. gray color. foliated, motified, very siliceous.			n		-	-	1	+	+
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Co-ordinales True Brg. Logged by N. Racov. Dale Semple Fectage Form To 94.40- 96.90m BIOTITIC METASEDIMENTS - Con't matrix which is foliated around the qtr grains. The entire zone is weakly calcareous. 96.90- 97.25m O.35m QUARTZ VEIN sampled for geochemical analysis Foliated white qtr vein with abundant pyrrhotite, v. minor cov. and pink and v. pale greenish feldspars (7) common in the lower 10cm. Biotite occurs as v. narrow veinlets in a reticulate network around elongate masses of quartz å atz-feldspar. 97.25- 97.55m BIOTITIC METASEDIMENTS sampled for geochemical analysis Similar to interval 94.4 - 96.9m but with a central 10cm zone of massive.foliated pyrrhotite containing irregular rounded pods of qtz-calcite å v. minor cpv. The biotitic metasediments adiacent to the pyrrhotite are quite strongly foliated at ^60° to the core axis. 97.55- 99.80m SILICEOUS METASEDIMENTS sampled for geochemical analysis Light to med, gray colors, foliated, motilod, very siliceous.	Property VIII	ecord CAN District Hole No. Vu-84-4		e 6					
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Containing irregular rounded pods of qtz-calcite & v. minor cpv. The biotitic metasediments adjacent to the pyrrhotite are quite strongly foliated at ~60° to the core axis. 97.55- 99.80m SILICEOUS METASEDIMENTS sampled for geochemical analysis Light to med, gray color, foliated, mottled, very siliceous.	Property VIII Commenced Completed Co-ordinates Objective Footage From To 94,40-96,90m	CAN District Hole No. Vu-84-4 Location Tests at Hor. Comp Core Size Corr. Dip Vert. Com True Brg. Logged b Recov. Date Description BIOTITIC METASEDIMENTS - Con't matrix which is foliated around the qtz grains. The entire zone is weakly calcaréous. 0.35m QUARTZ VEIN sampled for geochemical analysis Foliated white qtz vein with abundant pyrrhotite, v. minor cpv. and pink and v. pale greeni feldspars (7) common in the lower 10cm. Biotite occurs as v. narrow veinlets in a reticulate network around elongate masses of quar	p		Langth	0	the .	Collar	Ebe.
The biotitic metasediments adjacent to the pyrrhotite are quite strongly foliated at ~60° to the core axis. 97.55- 99.80m SILICEOUS METASEDIMENTS sampled for geochemical analysis Light to med. gray color. foliated, mottled, very siliceous.	Property VIII Commenced Completed Co-ordinates Objective Foetage Foetage Foetage 94, 40- 96, 90m 96, 90- 97, 25m	CAN District Hole No. Vu-84-4 Location Tests at Hor. Comp Core Size Corr. Dip Vert. Com True Brg. Logged by Recov. Date Description BIOTITIC METASEDIMENTS - Con't matrix which is foliated around the qtz grains. The entire zone is weakly calcaréous. 0.35m QUARTZ VEIN sampled for geochemical analysis Foliated white qtz vein with abundant pyrrhotite, v. minor cpy, and pink and v. pale greenifeldspars (7) common in the lower 10cm. Biotite occurs as v. narrow veinlets in a reticulate network around elongate masses of quarts qtz-feldspar. BIOTITIC METASEDIMENTS sampled for geochemical analysis	p		Langth	0	the .	Collar	Bev.
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Light to med, gray color, foliated, mottled, very siliceous.	Property VIII Commenced Completed Co-ordinates Objective Foetage Foetage Foetage 94, 40- 96, 90m 96, 90- 97, 25m	CAN District Hole No. Vu-84-4 Location Tests at Hor. Comp Core Size Corr. Dip Vert. Comp True Brg. Logged by Recov. Date BIOTITIC METASEDIMENTS - Con't matrix which is foliated around the qtz grains. The entire zone is weakly calcareous. 0.35m QUARTZ VEIN sampled for geochemical analysis Foliated white qtz vein with abundant pyrrhotite, v. minor cpv. and pink and v. pale greenifeldspars (?) common in the lower 10cm. Biotite occurs as v. narrow veinlets in a reticulate network around elongate masses of quarts qtz-feldspar. BioTITIC METASEDIMENTS sampled for geochemical analysis Similar to interval 94.4 - 96.9m but with a central 10cm zone of massive, foliated pyrrhotis containing irregular rounded pods of qtz-calcite & v. minor cpv.	p. p. y		Langth	0	the .	Collar	Elev.
Light to med, gray color, foliated, mottled, very siliceous.	Property VIII Commenced Completed Co-ordinates Objective Foetage Foetage Foetage 94, 40- 96, 90m 96, 90- 97, 25m	CAN District Hole No. Vu-84-4 Location Tests at Hor. Comp Core Size Corr. Dip Vert. Comp True Brg. Logged by M. Recov. Date BIOTITIC METASEDIMENTS - Con't matrix which is foliated around the qtz grains. The entire zone is weakly calcaréous. 0.35m QUARTZ VEIN sampled for geochemical analysis Foliated white qtz vein with abundant pyrrhotite. v. minor cpv. and pink and v. pale greenifeldspars (7) common in the lower 10cm. Biotite occurs as v. narrow veinlets in a reticulate network around elongate masses of quarts at a qtz-feldspar. BIOTITIC METASEDIMENTS sampled for geochemical analysis Similar to interval 94.4 - 96.9m but with a central 10cm zone of massive foliated pyrrhotitic containing irregular rounded pods of qtz-calcite & v. minor cpv.	p. p. y		Langth	0	the .	Collar	
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THE REPORT OF THE PROPERTY OF	Property VIII Commenced Completed Co-ordinales Objective Footage From To 94.40- 96.90m 96.90- 97.25m	CAN District Hole No. Vu-84-4 Location Tests at Hor. Comp Core Size Corr. Dip Vert. Com True Brg. Logged b Recov. Date Description BIOTITIC METASEDIMENTS - Con't matrix which is foliated around the qtg grains. The entire zone is weakly calcardous. 0.35m QUARTZ VEIN sampled for geochemical analysis Foliated white qtx vein with abundant pyrrhotite, v. minor cpv. and pink and v. pale greenifeldspars (7) common in the lower 10cm. Biotite occurs as v. narrow veinlets in a reticulate network around elongate masses of quarts at a ct-feldspar. BIOTITIC METASEDIMENTS sampled for geochemical analysis Similar to interval 94.4 - 96.9m but with a central 10cm zone of massive, foliated pyrrhotist containing irregular rounded pods of gtz-calcite & v. minor cpv. The biotitic metasediments adjacent to the pyrrhotite are quite strongly foliated at ~60° to the core axis. SILICEOUS METASEDIMENTS sampled for geochemical analysis	p. p. y		Langth	0	the .	Collar	Clev.

	11. On 1.	oge 7					1
Property VUL	District Hole No.						
Commenced	Location Tests at Hor. Comp.	-		-	1		1
Completed	Core Size Corr. Dip Vert. Comp.			1		0	1
Co-ordinates	True Brg. Logged by		-	-	4	ga	
Objective	% Recov. Date			Claim	Bro	Collar	
Footage	Description	Sample No.	Longth	Ana	yala	-	
97.55- 99.80m	SILICEOUS METASEDIMENTS - Con't	100			1		
37.30- 33.000	as veinlet-like boundaries to modular white masses of qtz & possible feldspar	$\overline{}$			T		
-	Irregular veinlets of po & minor cpy occur locally, as do small concentrations of arsenopyrite				\top		
	crystals.						
			-	-	-	-	
99.80-101.30m	BIOTITIC METASEDIMENTS sampled for geochemical analysis	-	-	⊢	+	+	-
	Fine-grained, brown colored, foliated, weakly calcareous.	-	-	+	+	+	
	Biotite is finer grained than in previous biotitic intervals and the foliation is less uniform				1	1	T
-	here, with irregular qtz-rich lensey bands parallel to foliation common. Minor calcite occurs			П			1
	with the qtz. PbS, ZmS, pò & Aspy occur in minor amounts. PbS & ZmS occur as narrow irregular						
	veinlets & as fine grains associated with lensey qtz bands & very fine ZnS is locally dissem-						
	inated in the biotitic metaseds. Po occurs as v. small irreg. veinlets & Aspy occurs as						
	discrete fine-grained crystals. A gmyish white metamorphic mineral with stubby elongate			L			
	crystals is common; growing at random orientations across the foliation.						
				-	+	-	_
101.30-107.30m	MACKE AND SUBMACKE, minor QUARTZITIC WACKE	-	-	-	+	+	_
	Primarily thin bedded, some laminations. Meddark blue-gray colored. Evidence of tectonic	-	+	\vdash	+	+	-
	disturbance is present through most of this interval with near-ubiquitous closely spaced healed fractures cutting and slightly offsetting the bedding. Locally thin beds & lams are	-	+	+	+	+	-
	folded by this shearing. Much of the interval is moderately to strongly altered with light	-	-	-	+	+	-
	folded by this shearing. Much of the interval is moderatily to strongly elected with right	-	+	+	+	+	_
Orill Hole B	gray bleaching & probable silicification occurring adjacent to narrow healed fractures. A few	_		1	_	1	
Drill Hole R	ecord & •	age 8					**
Drill Hole R	ecord Conninco	oge 8			_		
	ecord Conninco	Page 8					
Property VULC	ecord No platrict Male No. Vu-84-4	rage 8					-
Property VULC	ecord No. Vu-84-4 Location Tests at Hor. Comp.	Page 8				dig	
Property VULC Commenced Completed	ecord NI District Hole No. VU-84-4 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp.	dage 8		lein.	Brg.	ollar Dip	
Property VULC. Commenced Completed Co-ordinates Objective	Consince Part Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by		Length	- Andrew	o a	Collar	
Property VULC. Commenced Completed Co-ordinates Objective Footage	Consider Part Comp. Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Water. Recov. Date	Page 8	Length	E.SO Ana	-	Collar	
Property VULC. Commenced Completed Co-ordinates Objective	Consider Postrict Project No. VU-84-4 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Ward Recov. Description MACKE AND SUBMACKE, minor QUARTZITIC WACKE - Con't		Length	E S D Ana	-	Collar	
Property VULC. Commenced Completed Co-ordinates Objective Footage	Connince No. Vu-84-4 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by **Recov. Date Description MACKE AND SUBMACKE, minor QUARTZITIC WACKE - Con't qtz veins are present, varying from 1-2mm to 6cm wide; locally they carry irregular pods &		Length	Cieria	-	Collar	
Property VULC. Commenced Completed Co-ordinates Objective Footage	Consider Postrict Project No. VU-84-4 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by Ward Recov. Description MACKE AND SUBMACKE, minor QUARTZITIC WACKE - Con't		Length	E S D	-	Collar	
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Property VULC Commenced Completed Co-ordinates Objective Footage 101.30-107.30m	Corollario District Hole No. VU-84-4 Location Tests at Hor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by M. Racov. Date Description MACKE AND SUBMACKE, minor QUARTZITIC NACKE - Con't qtz veins are present, varying from 1-2mm to 6cm wide; locally they carry irregular pods & veinlets of pyrrhotite. At 103m very minor PbS occurs in a qtz vein. Narrow irregular veinlets & bedding-parallel disseminations of pyrrhotite are fairly common through the interval. Occassional discrete crystals of arsenopyrite occur locally. 106.55-107.3m Scattered bedding-parallel "veinlets" & disseminations of fine grained PbS & ZnS are present, along with irregular, cross-cutting veinlets. Bedding attitude, where not disturbed by shearing, is at 75-80° to core axis. Sampled for geochemical analysis from 106.2 to 107.3m. BIOTITIC METASEDIMENTS (65%) and MACKE (35%) sampled for geochemical analysis. Biotitic metaseds are med-dark brown, foliated with lenses & layers of granular qtz distributed through the zone. Very minor ZnS & Aspy are locally present. Macke is med. blue-gray, predominantly laminated. WACKE, minor SUBMACKE sampled to 111.9m for geochemical analysis Med, blue-gray colored. Thin-bedded and laminated although bedding is generally indistinct.		Length	E BO Ana	-	Collar	
Property VULC Commenced Completed Co-ordinates Objective Footage 101.30-107.30m	Consider those No. Vu-84-4 Location Tests at Mor. Comp. Core Size Corr. Dip Vert. Comp. True Brg. Logged by K. Racov. Date Description MACKE AND SUBMACKE, minor QUARTZITIC NACKE - Con't qtz veins are present, varying from 1-2mm to 6cm wide; locally they carry irregular pods & veinlets of pyrrhotite. At 103m very minor PbS occurs in a qtz vein. Narrow irregular veinlets & bedding-parallel disseminations of pyrrhotite are fairly common through the interval. Occassional discrete crystals of arsenopyrite occur locally. 106.55-107.3m Scattered bedding-parallel "veinlets" & disseminations of fine grained PbS & 2ns are present, along with irregular, cross-cutting veinlets. Bedding attitude, where not disturbed by shearing, is at 75-89° to core axis. Sampled for geochemical analysis from 106.2 to 107.3m. BIOTITIC METASEDIMENTS (65%) and MACKE (35%) sampled for geochemical analysis. Biotitic metaseds are med-dark brown, foliated with lenses & layers of granular qtz distributed through the zone. Very minor ZnS & Aspy are locally present. Macke is med. blue-gray, predominantly laminated. MACKE, minor SUBNACKE sampled to 111.9m for geochemical analysis		Length	E S O Ana	-	Collar	

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Foolage	Description		Sample	Length	Anal	ysis	10	W
From To			No.	-	+	-	\vdash	+
107.90-114.50m	MACKE, minor SUBMACKE - Con't	Adding	-	+	+	\vdash	+	+
	Po is fairly common as very small veinlets, usually quite irregular & cross-cutting be ZnS & PbS occur as fine grained bedding-parallel bands & lenses & in veinlets which cr	ross-cut		-	1	\vdash	+	+
-	bedding. ZnS is more abundant than PbS, both are fairly minor but are concentrated in		1		+			
	Below 112.9m the intensity of foliation/shearing and associated alteration is increase	ed.						
	Moderate foliation at 1450 to core axis occurs with pale gray-green bleaching. Minor	qtz						
	weining occurs, along with narrow, irregular po veinlets. Bedding planes occur at %70	0-80 ⁰						
	to core axis within this entire interval.							
						_		
114.50-120.70m	WACKE, minor SUBWACKE and QUARTZITIC MACKE sampled from 115.9 to 117.8m for geochem.	. analysis						
77.112	Bedding is generally more indistinct in this interval; locally the sediments have a ma	assive			-			1
	character. Med-dark blue-gray color. Some bedding/lamination planes are sharp but mo	ost are			-	_	-	-
1 2009	somewhat indistinct although an obvious banding is present through most of the interva	al. Where		-	-	-	-	-
- ×	the seds are more massive, usually a fabric of elongate blebs of biotite grain aggrega		_	-	-	-	-	-
	with minor po is present, roughly parallel to the bedding/banding.		-	+	+	+	-	-
		-	-	+	+	+	+	+
-	Minor ZnS & v. minor PbS are present as fine-grained irregular veinlets & as lamination	ons &	-	+	+	+	+	+
	discontinuous laminations parallel to bedding.		-	+	+	+	+	+
			-	-	-	+	+	+
			-	-	+	-	+	+
Drill Hole Re	ecord	minco Po	ge 10		<u> </u>			1
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Property WLCA Commenced Completed Co-ordinates Objective	District Hole No. Vu-84-4 Location Tests at Hor Core Size Corr. Dip Ver True Brg. Log X Recov. Dail MACKE and QUARTZITIC WACKE, minor SUBMACKE Predominantly thin bedded & laminated; a few zones are more massive-looking & beds item be of med, thickness. Light to dark gray, commonly color-banded. Evidence of tectonsis deformation is common with numerous healed fractures slightly offsetting beds or lamin crenulated laminations & minor qtz & qtz-calcite veins. Fine-grained black tourmaline are present in minor amounts through much of the interval. Minor ZnS on locally, eg. within a 5mm wide qtz véin at 120.7m. Pyrrhotite & less comparite, occur as small veinlets - po typically in association with small veins & py typically along fracture surfaces. Alteration is common in the interval, with more qtz-rich beds most strongly affected. are bleached & appear to be silicified. Near 130.4m a 30cm zone is biotitic, chloritic, & calcareous - may be a mafic sill, sul altered, or a mafic-rich metasediment (other biotitic argillites are not altered in timenner).	r. Comp. rr. Comp. rr. Comp. rr. Comp. rgged by site re may lc netions. e needles ccurs commonly 1 qtz These	Sample No.	Length		lysia .	Collar	Elev.
Property WLCA Commenced Completed Co-ordinates Objective	District Hole No. Vu-84-4 Location Tests at Hor Core Size Corr. Dip Ver True Brg. Log Recov. Date MACKE and QUARTZITIC WACKE, minor SUBMACKE Predominantly thin bedded & laminated; a few zones are more massive-looking & beds increbe of med, thickness. Light to dark gray, commonly color-banded. Evidence of tectonic deformation is common with numerous healed fractures slightly offsetting beds or lamina crenulated laminations & minor qtz & qtz-calcite veins. Fine-grained black tourmaline are present in minor amounts through much of the interval. Minor ZnS or locally, eg. within a Smm wide qtz vein at 120.7m. Pyrrhotite & less compyrite, occur as small veinlets - po typically in association with small veins & py typically along fracture surfaces. Alteration is common in the interval, with more qtz-rich beds most strongly affected. are bleached & appear to be silicified. Near 130.4m a 30cm zone is biotitic, chloritic, & calcareous - may be a mafic sill, sur altered, or a mafic-rich metasediment (other biotitic argillites are not altered in the strong of the stro	r. Comp. rr. Comp. rr. Comp. rr. Comp. rgged by site re may lc netions. e needles ccurs commonly 1 qtz These	Sample No.	Lange		lysia .	Collar	Elev.
Property WLCA Commenced Completed Co-ordinates Objective	District Hole No. Vy-84-4 Location Tests at Hor Core Size Corr. Dip Ver True Brg. Log X Recov. Dail MACKE and QUARTZITIC WACKE, minor SUBMACKE Predominantly thin bedded & laminated; a few zones are more massive-looking & beds item be of med, thickness. Light to dark gray, commonly color-banded. Evidence of tectonsis deformation is common with numerous healed fractures slightly offsetting beds or laminic remulated laminations & minor qtz & qtz-calcite veins. Fine-grained black tourmaline are present in minor amounts through much of the interval. Minor ZnS or locally, eg. within a 5mm wide qtz vein at 120.7m. Pyrrhotite & less compyrite, occur as small veinlets - po typically in association with small veins & py typically along fracture surfaces. Alteration is common in the interval, with more qtz-rich beds most strongly affected. are bleached & appear to be silicified. Near 130.4m a 30cm zone is biotitic, chloritic, & calcareous - may be a mafic sill, sur altered, or a mafic-rich metasediment (other biotitic argillites are not altered in timenner). At 137.7m a 10cm zone is quite strongly contorted. Bedding anale is commonly at 75-8:	r. Comp. rr. Comp. rr. Comp. rr. Comp. rgged by re may re	Sample No.	Lange		lysia .	Collar	Elev.

Property VULO	AN	Die	itrict			Hole No	o. Vu-	84-4									
Commenced		Lo	cation			Tests a	4		-	Hor. Comp.			1				
Completed		Co	re Size			Corr. D	ip			Vert. Comp.			1		-		
Co-ordinates				-		True Br	rg.		-	Logged by			-	10	o o		E
Objective		CENTRE				% Reco	OV.			Date			Claim	Brg	Collar	Elev.	ength.
octage	Description		IICAL ANALYSE	Cu	Pb	Zn	Fe	Ag	Hg	As	Sample	Length	IO.	ilyais	0	Ψ.	2
rom To	Description	From	To(meters)	1	ĭ	1	1	PPH	PPB	x	No.	-					
	1 11 11 11	94.4	95.7	.01	.00	.02	12.2	4,4	<10	.02			1	_			
		95.7	96.9	,01	.00	.03	11.9	c, 4	<10	.02	-	-	-	-	-		-
		96.9	97.2	.07	.00	.00	9.9	4,4	<10	.02	-	-	-	-	-		
		97.2	97.5	.03	.00	.03	18.5	4.4	<10	.01	-	-	-	-			-
		97.5	98,6	.01	.00	.01	2.79	4.4	<10	.00	-	+-	-	+	-		
		98.6	99.8	.00	,00	,02	2.17	5.4	<10	.01	-	-	-	-	-		-
		99.8	100.2	.00	.00	.05	11.1	5.A	<10	.03	-	-	-	-		-	-
		100.2	100.7	,00	.48	.23	10.5	12.9	<10	.06	-	-	⊢	+	-	-	-
		100.7	101.3	.00	.04	06	_9.3	. 9	<10	.05	+	-	╁	+	-	-	-
No. of the		106.2	106.6	.01	.05	.04	3.73	5.4	<10	.00							
		106.6	107.3	.00	. 36	.43	2.96	2.2	<10	.00							
		107.3	107.9	.00	. 05	.08	8.9		<10	.03							
		107.9	108.4	.00	.15	.44	3.96	2	<10	.01							
		108.4	109.3	.00	.12	. 17	3.21	. 5	<10	.00				1.			
		109.3	109.6	.00	.02	.07	3.5	5.4	<10	.00							
		109.6	110.6	.01	.04	.05	3.48	4.4	410	.00			_	_	_		_
		110.6	111,4	.01	.18	.01	2.37	2.7	40	.01			1_	-	1		
		111.4	111.9	.00	.02	.02	2.51	-5.4	10	.01	-	-	-	-	-	-	-
		115.9	116.5	.00	.04	.17	2.08	-4	40	.00		-					
		116.5	117.2	.00	.18	.53	2.4	1.2	<10	.00	1 75 15						

