GEOLOGICAL BRANCH

15,784

DIAMOND DRILL REPORT

ON THE

MAG GROUP

Cariboo Mining Division

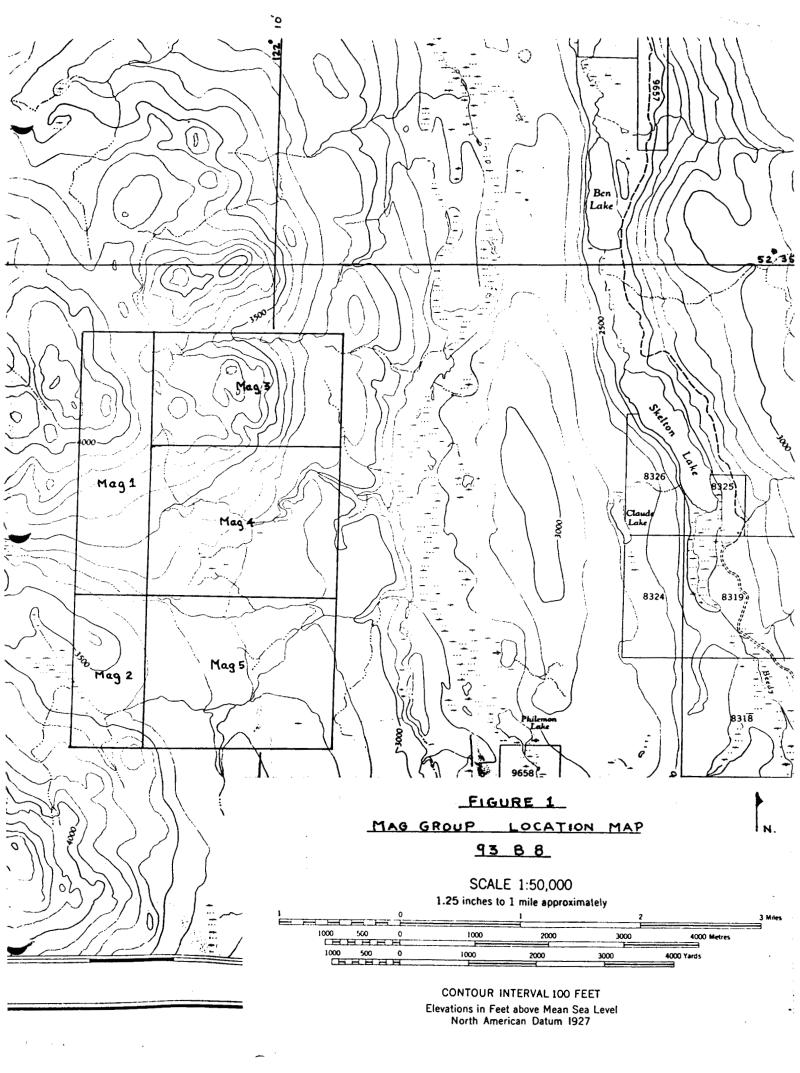
93 B/8

(Latitude 52 33', Longitude 122 10')

OWNER AND OPERATOR
GIBRALTAR MINES LIMITED
McLEESE LAKE, B.C.

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1.0 INTRODUCTION, PHYSIOGRAPHY AND ACCESS

The Mag Group is a copper-gold prospect located in Cariboo District, approximately 4 miles (6.4 km) northeast of the Gibraltar Mines concentrator and about 10 miles (16.0 km) northeast of McLeese lake.

The claims cover a predominately easterly sloping terrain which drains into the valley of Beaver Creek. Relief varies from 3000- to 4200-feet. The area is poorly drained and covered by thick stands of spruce, douglas fir and jackpine.

Access is via a 4-wheel drive-type road which links up the Gibraltar tailings pond road near the eastern end of the pond. General location of the claim group is shown in Figure 1.

This report covers a diamond drill program conducted during the period May 15 to June 6 1985. Two vertical N.Q. diamond drill holes were completed for a total footage of 730 feet (222.65 m). The contractor was Double G Diamond Drilling Ltd. of Williams Lake, B.C. Core is stored at the Gibraltar Mines plant site.

2.0 GEOLOGY

The Mag Group appears to be underlain by a sequence of dark green volcanic flows and associated breccias which form prominent outcrops above the 3400-foot level. These rocks are considred to be mainly of andesitic or basaltic composition and are likely of Jurassic age. Most specimens examined were dense, dark-green, fine grain rocks which often displayed tiny chloritic phenocrysts. In several places epidote-garnet-magnetite scarns were noted interbedded with the volcanics. Below the 3400-foot level very little rock exposure has been found. Resistivity data suggests this area may be underlain by predominately sedimentary units.

3.0 PROPERTY DESCRIPTION

The mineral claims of the Mag Group were staked in 1980 to cover a large aeromagnetic anomaly and several zones of magnetite-scarn. The mineral claims are shown in Figure 2. Information on these claims is tabulated below.

CLAIM NAME	RECORD NO.	NO. OF UNITS	ANNIVERSARY DATE
Mag 1	1660	14	June 10
Mag 2	1661	8	June 10
Mag 3	1662	15	June 10
Mag 4	1663	20	June 10
Mag 5	1664	20	June 10

All of these claims are owned by Gibraltar Mines Ltd. The drilling was located on the Mag 4 claim.

4.0 PREVIOUS WORK

During October and November of 1981 an induced polarization survey was carried out over the property by Peter E. Walcott and Associates Limited for Gibraltar Mines. Approximately 28.4 miles (45.5 km) of I.P. line was run and at least five definite anomalies were discovered. This work was submitted for assessment work in March 1982.

5.0 DRILL PROGRAM

5.1 OBJECTIVE

Two vertical N.Q. holes were drilled to test a narrow but extensive I.P. anomaly near rock exposures of magnetite-epidote-garnet scarn.

5.2 RESULTS

Drill hole locations are shown in Figure 2. In both holes, oxide and supergene effects appear negligible. Drill recoveries were over 90% in hole 85-23 except in a few faults and shatter zones. Recoveries were very poor in hole 85-24, averaging about 75%. Both holes appeared essentially barren and were not assayed. The pyrite and copper concentrations reported in the log are visual estimates. Hole 85-23 was drilled to 500-feet. Hole 85-24 was drilled to 230 feet.

Hole 85-23 intersected a sequence of volcanic flows, volcanic breccias, tuffaceous sediments and volcanic greywacke. The hole was cased to 58-feet. From 58-feet to 295-feet a dark green to dark grey fine grain rock was intersected which has been interpreted to represent a series of volcanic flows and associated breccias, all of From 295-feet to the end of andesitic composition. the hole at 500-feet, a predominately sedimentary unit was encountered having the coloration and appearance as the overlying volcanic rocks but composed mainly of alternating beds of fine tuffaceous material and coarse greywacke. The beds range between six inches and seven-feet in apparent thickness and in places include conformeable bands of Commonly, the tuff appears quite siliceous and may grade to an impure chert. Both the volcanic and sedimentary units contain enough finely disseminated magnetite to stongly attract a magnet. Both units also appear to be extremely hard and are probably much more siliceous than would be expected for the rock types involved. zone of sulfide significant was intersected, although finely disseminated pyrite and sparse chalcopyrite were noted sedimentary unit. Throughout the hole, the core appears to be cut by veinlets containing various combinations of quartz, carbonate, epidote Most of these appear cut the bedding at a large angle. and chlorite. In general, the vein pyrite appears strongly associated with the epidote but the chalcopyrite appears confined to quartz-carbonate veins which in one case clearly cuts and displaces some epidote-pyrite veins. In both sedimentary and volcanic units, the prevailing bedding dip seems to be about 45 deg.

Hole 85-24 intersected a similiar sequence of rocks. From the casing at 18-feet to 85-feet a volcanic unit was enountered consisting mainly of green feldspar porphyry. From 85-feet to the bottom of the hole at 230-feet a sedimentary unit was intersected which appeared almost identical to that of hole 85-23, except for a smaller proportion of tuffaceous material. This unit also possessed the same hard cherty character and contained the same finely disseminated magnetite. No significant zone of sulfide was intersected. Sparse pyrite and chalcopyrite were noted in a breccia zone associated the quartz, epidote, chlorite and carbonate deposited between the fragments. Throughout the hole the prevailing bedding dip was 45 deg.

5.3 DISCUSSION

Although no significant mineralization was encountered, the two holes did reveal some information which may have a bearing on future exploration. First of all, the very hard compact nature of all the anomalous for rock types involved. Pervasive appears one possibility. Secondly, fine disseminated silicification is magnetite occurs throughout both holes regardless of rock type. Epigenetic magnetite mineralization is an obvious possibility and provides added interest to the sparse chalcopyrite mineralization also present.

5.4 CONCLUSION

More exploration work is required. All geophysical targets should be tested by drilling. Some thin section work should also be done.

Submitted by,

G. D. Bysouth

Senior Geologist

Gibraltar Mines Limited

4.0 STATEMENT OF EXPENDITURES

May 1985 Diamond Drilling, Mag Group

(a) Drilling costs

500' @ \$14.00/ft. \$7,000.00 85-23 85-24 230' @ \$14.00/ft. \$3,220.00

\$10,220.00

(b) Site Preparation

Cat time:

Pushing Roads and Developing Sites (1) 39 hrs @ \$41.00 per hours

\$ 1,599.00

(c) Supplies

\$ 25.50 Drilling Mud 292.50 Core Boxes - 50 boxes @ 5.85/box 25.00 Tags, bags, miscelleneous -----

343.00

(d) Vehicle

Rental 4X4 1985 pickup, May 15-17

May 23, 27, 28, 30, 31 June 3

8 days @ 36.00/day \$288.00 Fuel 100.00

388.00

(e) Personnel Costs

(1) Core Logging and Supervision

G. Bysouth 3 May-8hrs.

28 May-4hrs.

30 May-4hrs.

3 Jun-8hrs.

4 Jun-8hrs.

5 Jun-8hrs.

6 Jun-8hrs.

\$1,488.00 48 hrs @ 31.00/hr

(2) Field Work and Sample Preparation

E. Oliver 15 May- 8hrs.

16 May- 4hrs.

17 May-11hrs.

23 May- 4hrs.

27 May- 4hrs.

28 May- 4hrs. 30 May- 4hrs.

31 May- 8hrs.

3 Jun- 6hrs.

\$1,040.92 53 hrs @ \$19.64

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(3) Field Work and Sample Preparation
                      16 May- 4hrs.
5 Jun- 4hrs.
         T. Bains
                                                     133.36
         8 hrs @ $16.67/hr
     (4) Field Work and Sample Preparation
         D. Exshaw 17 May-11hrs.
                      23 May- 4hrs.
27 May- 4hrs.
                      28 May- 4hrs.
30 May- 4hrs.
                      31 May- 8hrs.
3 Jun- 6hrs.
                        5 Jun- 4hrs.
         45 hrs. @ $14.29/hr
                                                 $ 643.05
                                                           $3,305,33
                                                           $15,855.33
Total Drilling Costs
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LOB

APPENDIX I

STATEMENT OF QUALIFICATIONS

- I, Garry D. Bysouth, of Gibraltar Mines Limited, McLeese Lake, British Columbia, do certify that:
 - 1. I am a geologist.
 - 2. I am a graduate of the University of British Columbia, with a B.Sc. degree in geology in 1966.
 - From 1966 to the present I have been engaged in mining and 3. exploration geology in British Columbia.
 - I personally supervised this drill program, logged the core 4. and assessed the results.

APPENDIX II

ABBREVIATIONS USED IN DRILL LOGS

calcalcite
carbcarbonate
chlchlorite
cpchalcopyrite
crencrenulated
dissemdisseminated
epepidote
folnfoliation
grngrained
limlimonite
malmalachite
magmagnetite
pypyrite
QSPquartz-sericite-py

GEOLOGICAL BRANCH ASSESSMENT REPORT

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GIBRALTAR MINES LTD. SHEET No. _2__ of _4 GRAPHIC ROCK TYPES & ALTERATION BOTTOM DEPTHS FRACTURE ASSAY RESULTS LOG Commerce LEACH CAP ANGLE TO ROD | Sample Core CORE AXIS LIM. ZONE Calinate Rocovery S4 PERGENE Number -FREQUENCY-Cu Mo Crede 7. REMARKS 4'? 3 one of soft white (non carbonate) material 5٥ (alunite?) (gypsum?) 01 12" massive ep (clay?)
+ soft white
material 50 zone of bleaching and patches of ep + 85 soft white material 0 (as above 75 fas above blk prismatic mineral (schrol?) 9t3-chl-ep 01 40 10" ٥ massive ep 90 20 30 40 50 80 80 massive ep 55 massive ep SEDIMENTARY 97 UNIT. (95-230) Similiar to that X 46+35K3 hle + lim-Mnozx 4 of hole 85-23. 60 a dark grey, hard - 50 dense, compact tx. consisting of ... **E**. 110 bands of cherty 992 tuffaceous? sed. - the greywacke consists of rounded to subary, fregs of vel. and feldspathic material up to he dia 80 ep

HOLE No. 85-24 SHEET No. _3__ of _4 GRID___ GIBRALTAR MINES LTD. GRAPHIC ROCK TYPES & ALTERATION BOTTOM DEPTHS ASSAY RESULTS FRACTURE LEACH CAP ANGLE TO C... ROD Sample Width Vola LIM. ZONE CORE AXIS Calinetel Recovery Number S4 PERGENE Cu Croic -FREQUENCY-3 % Mo REMARKS - the tuffaceous 122 bands appear as dk grey cherty material usually less Than 2' in apparent width. hlexs lim - carb x 3 145×3 01 .01 80 - all the core appears very hard (H 6-7) ots-ep and contains enough vug. qtz-carb finely dissem . magnetite to strongly attract a magnet. bx some healed with .10 ٥ 9ts-ep (py)+qts-chi ond carb(cp) 50 90 bx-ep-carb zone similar 701 to above lim x4 hlex4 10 4 4 142 1+2" 9tz-ep 3012 90 01 147 70+60 13 1/20 ×3+1/10 EP ×4 20 30 50 50 50 85 ep sone 156 light green and. porphyry (chl. pheno: up to Youdia) 85 ep -9t3 dk green porphyry .50 165 with plag pheno's 01 up to Ko" dia massive at 95 9588888888 9tz-ep zone (mal) 175 50 01 ٥ 90 973-612

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GEOLOGICAL BRANCH ASSESSMENT REPORT

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GIBRALTAR MINES LTD. SHEET No. _3 of _8 GRAPHIC ROCK TYPES & ALTERATION BOTTOM DEPTHS ASSAY RESULTS FRACTURE C.1.-41.4 LEACH CAP ANGLE TO ROD Core Sample LIM. ZONE CORE AXIS Calinete Rocovery Number Crois Cu -FREQUENCY-S4 PERGENE Mo 3 % REMARKS finer grained and generally greenish - grading in places to epidote green. 162 carb-qq-lim 01 95 168 - this unit may be Ohl-lim a coarse volcano-90 clastic seguence 01 rather than a flow breecia 178 1410. 420 x6 | aa-lim x 180 - 11 =x6 98 184 01 40 0 100 4.05 01 finely dies. 11 Missing 70 footage block ? <.05 Smely 208 18-20-6 20- hlex6 Chl-99-(CPM) ANDESITE 1/20-1/10 98 UNIT (213- 26+')

HOLE No. 85-23 NO. 18 OF

ROCK	TYPE	S & ALTERATION	1	GRAP	нс	•			FRACTURE	9.	BOTTOM DEPTHS	丁一	I	1			AY RES		
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	•	· ·	L to Corr	LOC	Volta Volta Volta Volta Volta	Widin	Lin.		CORE AXIS -FREQUENCY-	# \$ P. P.	SUPERGENE REMARS		7.		Number	Cu	Mo		Coste
		dense dark green rock of likely						[0 1 0 20 30	-	·	223							
•	•	andesitic or basaltic composition - fine grain tex. In place brecciated (ang. fragi) -cut by numerous	1 5	230	30.14	1/10 = 2	epx2	•	50 50 60 70 80	•	·	229	98			•			01
		carbonate veins and occassional ep stringersi	45		4 4 4 10+15	1/8+ Y10	Fe-carb.xz				*	235	70						ا ۾
		estado la	75		4 5	y 4	ep (lim) his	ghly g	0 10 20 30 10 10 80 90 90	٥		239	40				•	- 	
				240			/ 3	one G	2		Approximately and the second s	241	55			48			
			40		7	•	99 core		0			244	15		4	*			01
				250	40	Ye	m vie	90				250	50						
		3' some of graywacke	50		is		99-hem) 9ts-cp	0 20 30	2			254	60			en iku ni Pilipan			∴ ₍ 01
·		below fault. (250-253)		260				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		٥			90					10 T	
		264	15	1	50-80×4 50	Nox4	ep carb = 4 (13 - ep ((py))	20 20 20				264				· (3)			٥١
- 1 July 1		ANDESITE PORPHYRY (264 - 295)		210				50 60 70 80			a principaliti		90	Sign .					
	Ь	imiliar to above st contains 20.60%	5		10		ep orb-ep	98890				274	, .						. A)
	in	dark green phanitic matrix phanitic matrix		280	60+50 ×2 X	s - Y10 x2 e	arb x 3	848 8 8 8 8 8 8											.01

HOUE NO. 35-23

	is part, in	a the same and the same to the same	4.00			.,			AIT MINES	<u> </u>			יום ביי	NO	01	D	AN ALTERNATION	A Marie Co	
RO	X TYP	ES & ALTERATION		GRAPHIC LOG			.]	<u> </u>	FRACTURE	9	BOTTOM DEPTHS		C+++++			ASS	AY RES	ULTS ·	
	T .		ءَ وَ ا		30 2] .		ANGLE TO	PYRIT	LEACH CAP	┥	Core	ROD	Sample	7.	%		Cationstal
	ľ		L to Con	Allection: Follogi	Volni Aut	widin Alah			-FREQUENCY-	2 2	SU PEROENE		Recovery	1	Number	Cu	Mo		Crois
		<u> </u>	7 -	22 2.5	-	-		<u> </u>	1	2 %	REMARKS	3 5	7.						
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	İ								0 ((0) 20 50			284	13						
	1		45?		10	<i>Y</i> ₅	ep-carb		50	o						•			۱۵,
	1		(4m)		2 4	2,4	ĊР		70			1							
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	 	295	40	 - 		700-778	ep-py		50 50	.5					-				
1		SEDIMENTARY		11 11	ĺ	j			50 60 70 80				6						·
20 To 1		UNIT (295-395')		300					ادمة			1	90						
		dense; hard, dk.	,		+0	2	ep. sone	(scarn?)	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -		· · · · · · · · · · · · · · · · · · ·		·					. 17	.
1		green to de grey	40		fo	2.	cp.zone		30			303		ļ	j				.10
		alternating bands of greywacke and tuffaceous? sed. The	ا "	1 H:	1		9ts-cp		50	.5			.	- 1	. 1	ŀ	.	f	.,,
		tuffaceous? sed. The		1 17			cp. P1	(Poss.	701	j		1 1	100		i			1	
		toffaceous material		310 7		110	Py-cp	> chect	00			310							
		appears siliceous (N=7) and may be		si-is 4	ю		ep-9t3	elots of a specific property of the specific p	0				- 1	1	İ	į	· . [S 244	
		an impure chert	.				• •	ep(PY)	0		,].					- 04
•		The greywacker are	T"	40	2	• •	p some		0	• 5			95	- 1					0.5
		typical - consisting	- 11			1.		2	0	ł			- 1		٠.	1		1	
		of subangular vol.	-H	320								320							
1 .		frags up to 45" dia	- 111		1'	('	t3-ep (py) ;	1.7 2.7 3.4 3.4 3.6 3.6 3.7 7.7		1		: [1		l	1			
		but also appear hard (H6-7) and	,.	40	×2 // //		tz(py)xz xvb-cp	2				ı	l	1		- 1	1	. 1	05
		ZILICEOUS .		17				डिस	1	5			95	.		4		. 1	***
		The bands range from 6" to 7. The		刻作。			e Santas	77.		.				.,	147. 12. 142. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15				
1				330		at in our extreme		90 90 0				330	· 漢(を	ATTENT OF	100 mg/s	. <u>१८</u> का । जन्म स्मार		5 A- A-	Company of the Company
		veins of ep and of s		11.			3. ep	20 20 30 40 50 60 70											
	1	right angles to the bedding. The ep. A	•	· 1 40	x 5 //.	v-/20 x 5 9	13-epxs	30 40				1.					7	3	.08
	1	zones however, are conformeable. (scarn?)		40	6"	e	P 3one	50 60	<	.5		[·]	98	ļ	- 1	•			
	1	CONTOT WEADLE. (SCATA.)	- ,	40 /140	410		rb-py-cp	70 80 90	2.2		1.			- 1	j				
				77.1.1			11.00					340						Street grant and section	245 C. 85

ROCK	TYP	GRID S & ALTERATION		GRA	\sim $^{\prime}$				FRACTURE	LTD.	BOTTOM DEPTHS				1.11	ASS	AY RES	ULTS://	· 4
:	•		7 to Corri	Vallenille All Coults	Streetyne	72 Velas 2. Le Core	Width of	Winer officests	ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	LEACH CAP LIM. ZONE SUPERGENE REMARS		Coro Rocoy	ROD	Semple	% Cu	% Mo		Estia Cre
			40	3:		45 60 30 x2 70 x2	Ys Yz Ysx2 Y10×2	9tz-chi 9tz-chi 9tz-epxz epxz	0 i 10 · 20 · 50 · 60 · 70 · 80 ·	0		350	100			•			.0
:			40	36	72	45 Lo 40	1/10×3 1/4 3'	qtz-chl(py))x3 qtz-chl-ep(mag) zene dk Sherty mount is zone	20 20 30 40 50 50 60	ь		. 360	9.8						٥
			40	370		4 • 1	7'	with (py) dark siliceous bx-healed with ep- fine grn mag (py)	0	.5	magnetite is very fine — not visible without magnification	1	95						o
			40	24.	4000000	07	s'	dk oiliceous bx as above - finely cliss. mag in chert	0 0 0 0 0 0 0 0 0 0	٠.5		380	98						•
	ing New York			390	4:	yı 3' X10	10 -Yozio 9	olk chort-mag(pv) chl-ep(py) gt3-chl ts x10		.5		396	100						.01
-	*	345			X You	ε ²	I	ts + ep Res k chert-mag(pr) 300 600		0			100					2.0	Cio

HOLE No. 285-23

			الوجه الغارقين أهيأة فأستمد والعموم حدالية	42			· ·		0.0,	AN MINES	L, D.	· ·		SHEET	No	of _	<u>'8</u> *	Section of the second		•••
RO	CK	TYPE	S & ALTERATION	<u> </u>	G	RAPH LOG	ıq			FRACTURE	9	BOTTOM DEPTHS	7	C-11-4			AS	SAY RES	ULTS	
	Т	•		7 10 600		LOG	년 출하고 -	÷	<u>.</u>	ANGLE TO	PYRITE	LEACH CAP			ROD	Sample	1%	1%		
	. [=			70100 70100 70100 7010	Widin		-FREQUENCY-	1 5	LIM. ZONE SUPERGENE		Rocovery	1	Number		Mo		Croic
		•		17		ξ <u>ξ.</u>	7		i i	-PREDUENCY-	2 %	REMARKS	┥ ፥ ፥	7.			Cu	~~		
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			ANDESITE	- }	Ш		20 +3	Y20K3.	epx3	20	1		1		i.		1].		
			PORPHYRY (395- 410)	?	Ш					40	<∶5		1	95						.01
1			med green 120" dia		- 11		1			60 70	1 .		1				l	• 3		
· ·			med green 120" dia spara chl. phenos in seriate matrix.	$oldsymbol{\perp}$		410	40?	6"	qts-ep-chl ((p))) zone	80 90	1	1)	410			· ·				
	\sqcap			ŀ	\prod		4012	6.40.	9t3-chl-ep-carb ((pri) 3 one	0		Complex sheared or				, , , , , ,	3.0			
		j	SEDIMENTARY	1	Ш		45	<i>y</i> ~		<i>20</i>		bx zone healed b	'	'	ļ					
1	1		UNIT (410 - 458)	50	Ш		1 -	/*	113.00. 01	40 50	۷۰۶			95				•	,	۱٥,
	1		Same as 295-395	1	Ш			·		90			1		- 1					
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			of tuffaceous rx	1	Ш	- 11					-	the state of				77E				
	1	- 1		1	Ш	- 1/1	20	Y8	qts-chl-ep	0				1		Jacobs		·		
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			458	-11	Ar.	1		1	70		-				ĺ				1.	
L					1460	W **			thlep ((py)) some				460	ل_						

HOLE No. 85-23 GIBRALTAR MINES LTD. SHEET No. _ 8 of _ 8 GRAPHIC ROCK TYPES & ALTERATION BOTTOM DEPTHS Log FRACTURE ESTIMATED % PYRITE ASSAY RESULTS C LEACH CAP ANGLE TO % ROD C . . . Sample CORE AXIS LIM. ZONE Catinolei Recovery Number S4 PERGENE -FREQUENCY-Cu Croic Mo 7. REMARKS CHLORITE - EPIDOTE 14+45 . 9t3-carb x2 CARBONATE ZONE (458'- 476') 45? 9tz-ep-ch ((cp)) 05 . 5 95 a dark green swirled mixture of and andesite qt3-ch1-carbx2 9t3-chl-cp-carb (Fr)) (chil. phenos) cut by numerous qtz and qtz-carb. Veinlets. 5 + 70 Kz 9+3-carb-cp + 9+3-chl-py # 1413 "the cp veins clearly cut and displace the 913-carb (cp)
913-carb - ep
913-ch1-py
913-ch1-py
913-carb (cp))
913-carb x3 45 Py Veins -incr py-cp. .10 1.0 90 70 SEDIMENTARY 90 480 9t3-carb UNIT (476- 495') 9tz-carb 45 . 05 .5 finely 85 diss. py. 490 20: 30 40 70 80 90 45 .01 ٥ 1/4 9t3-carb EOH SOO'

