EGEIVE AUG 16 1985 SUB-RECORDER WILLIAMS LAKE, B.C.

85-767-13950

DIAMOND DRILL REPORT

ON THE

ZE 1 GROUP

CARIBOO MINING DIVISION

93 B 9 (Latitude 52 deg 35', Longitude 122 deg 17')

> OWNER AND OPERATOR GIBRALTAR MINES LTD. MCLEESE LAKE, B.C.

Author: G. D. Bysouth

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GEOLOGOICAL BURNATNCH985 ASSESSMENT REPORT

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1.0 INTRODUCTION

The Ze Group lies about 6.5 km north of the Gibraltar Mines plantsite at an elevation of 3300 to 4400 feet. The claims cover a series of low rocky hills separated by broad tracts of poorly drained ground. Access is via a network of logging and exploration roads which link up with the Gibraltar Mines tailings pond road just north of the pond. General location of the claims is shown in Figure 1.

Available evidence indicates the Ze Group is underlain by a sequence of green volcanic rocks, consisting mainly of andesitic flows and associated pyroclastics, and a series of sedimentary rocks, consisting of various greywackes, calcareous siltstones, and graphitic schist. The graphitic rocks were discovered during the drilling of several I.P. target in 1978 and 1981.*

This report covers a minor drill program designed to test several gold anomalies outlined in soils overlying the sedimentary sequence. Two vertical N.Q. wireline diamond drill holes totalling 1003 feet (305.7m) were drilled during the period June 19, to July 6, 1985 by Double G Diamond Drilling Ltd. of Williams Lake B.C. The core was assayed for gold and silver. It was not split but sent in whole for analysis in order to reduce error. However, for each ten foot section, a segment of core was retained and stored at Gibraltar Mines for future reference.

2.0 MINERAL CLAIMS

The Ze 1 Group mineral claims are shown in Figure 2. Further information is provided below:

CLAIM	NAME	RECORD NO.	NO. OF UNITS	ANNIVERSARY DATE
Ze	1	458	15	July 22
Ze	2	6621	20	Nov. Ol
Ze	3	3927	20	Aug. 17
Ze	4	6620	10	Nov. 01
Ze	5	N / A	6	Aug.
Ze	6	N/A	10	Aug.
Ze	7	N / A	2	Aug.

* Assessment Reports by G.D. Bysouth

1. Percussion Drilling Report, Ze Mineral Claims, July 1978

2. Diamond Drill Report, Ze Group, July, 1981



3.0 DRILL PROGRAM

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3.1 OBJECTIVE

The purpose of this program was to test for precious metal concentrations in rocks suspected of causing scattered gold anomalies in nearby soils. Hole 85-33 was located over a surface showing of black pyrite-bearing argillite. Hole 85-34 was located over an I.P. anomaly assumed to be caused by graphitic schist. Hole locations are shown in Figure 2.

3.2 RESULTS

Hole 85-33 was cased to 23-feet. From 23- to 169-feet a black dense argillite was intersected which contained up to 10% pyrite. This rock grades from massive black argilite to a banded argillite, consisting of alternating black and grey bands or laminae. The pyrite appears disseminated throughout the rock, but is most concentrated within the grey bands and in places forms massive lenses. The bands and laminae are considered to be primary bedding structures which now show a considerable amount of deformation and dislocation. Prevailing dip appears to be about 45-degrees but abrupt changes to much steeper and flatter angles suggest a complex structure, possibly containing numerous small-scale folds and crenulations. At 169- to 180-feet, the argillite grades into a grey pyrite-bearing cherty rock. From 180- to 286-feet, a soft talcose grey rock was encountered which has been tentatively identified as an altered augite andesite. Its chief characteristics appear to be an abundance of corroded euhedral augite phenocrysts enclosed in feldspathic matrix containing abundant red Below this rock, from 180- to 500-feet the biotite. same black argillite was encountered which at 358- to 428-feet included a strongly banded zone, inclined about 60-degrees to the core axis. Near the bottom of the hole the argillite appeared to become more graphitic but still contained abundant pyrite. Cross cutting all units were numerous carbonate and quartz-carbonate veinlets, often carrying sparse pyrite. It should be noted that most of the sulfide appears to be controlled by the bedding within the argillite and no sulfide was noted in the andesite. Throughout the hole the rock appeared to possess a weak slaty cleavage lying at about 70-degrees to the core axis.

Hole 85-34 was cased to 17-feet. From 17- to 30-feet a light green fine grained rock of possible andesitic composition was intersected. From 30- to 244-feet a black argillite unit was encountered which was very similiar to that of hole 85-33 but appeared to contain more graphite and less sulfides. From 244- to 266-feet a grey cherty rock was encountered followed by an altered augite andesite from 266- to 309-feet. Both of these rocks are similiar to the chert and augite andesite of hole 85-33. A mixed assemblage of greywacke, banded argillite and graphitic argillite was intersected at 309-feet to the bottom of the hole at 501-feet. The sequence was predominately greywacke down to 413-feet then abruptly changed to a banded argillite which was the main phase to the bottom of the hole. As in hole 85-33, pyrite occurred throughout most of the sedimentary unit as disseminations, cross cutting veinlets and concordant laminae. Massive cross cutting pyrite was noted at 490- to 501-feet.

Both holes were assayed at ten-foot intervals for gold and silver. These were all fire assays done by Vangeochem Lab Limited of North Vancouver, using a one assay ton, gravimetric finish technique. Detection limit for silver was .01 oz per ton and for gold .005 oz per ton. As shown in the logs, no significant precious metal concentrations were found.

3.3 INTERPRETATION

Both drill holes have intersected a similiar sequence of rocks which are interpreted to belong to the same marine assemblage. Both holes show an upper black argillite unit which overlies an altered bed of augite andesite. In both cases also, a thin grey chert layer occurs at the contact. Below the andesite bed, a thick sequence of sedimentary rocks was again intersected but was found in hole 85-34 to include a large proportion of greywacke, some of which was very coarse and angular. Hole 85-34 also was found to contain less sulfide and particularly, less sulfide confined to bedding planes. In contrast, hole 85-33 intersected a thick sequence of fine, uniformly banded sediments which contained abundant strataform sulfide. Very likely this represents a deeper and less active part of the marine In both holes, the disseminated pyrite, cross-cutting pyrite basin. and quartz-carbonate veinlets were interpreted to represent material and recrystallized during low grade dynamothermal remobilized metamorphism.

4.0 STATEMENT OF EXPENDITURES

DIAMOND DRILL PROGRAM, Ze CLAIMS

1. Drilling Costs Hole 85-33 501-feet @ \$14.00/foot \$7014.00 12 cat hrs @ \$41.00/hr. \$ 492.00 Hole 85-34 502-feet @ \$14.00/foot \$7028.00 8 cat hrs @ \$41.00/hr. \$ 328.00 \$14,862.00 2. Supplies \$ 292.50 Core boxes - 50 boxes @ 5.85 per box Tags, bags etc. 25.50 \$ Ś 318.00 3. Vehicle Costs Rental 4x4 1985 pickup, June 12,17,24,25,26 and July 8-6 @ \$36.00/day Ś 216.00 4. Personnel Costs (1)Core logging and supervision G.D. Bysouth June 12 - 8hrs June 27 - 8hrs June 28 - 8hrs July 3 - 8hrs July 10 - 8hrs July 15 - 8hrs 48 hrs @ 31.00/hr \$1488.00 (2)Report Preparation G.D. Bysouth Aug 12-15 \$ 496.00 16 hours @ \$31.00/hr Field Work and Sample Preparation (3) June 12 - 8hrs E. Oliver June 17 - 8hrs June 24-26 24hrs June 28 - 8hrs July 3 - 4hrs July 8 - 2hrs July 10 - 8hrs July 15 - 4hrs 66 hrs. @ \$19.64 \$1296.24 \$3280.24 5. Assay Costs (1) Sample Preparation 88 samples @ \$3.00/sample 264.00 Ś Gold-silver Fire Assay (2)88 samples @ \$11.00/sample Ś 968.00 \$ 1232.00 TOTAL DRILLING COSTS \$19908.24

5.0 CONCLUSIONS

Although significant economic mineralization was neither seen in core nor determined in assay, the abundance of pyrite in hole 85-33 and its possible syngenetic origin warrants further investigation which should include multi-element assaying of existing core, as well as geochemical and geophysical field work.

b. D. Bysouth

G.D. Bysouth Senior Geologist Gibraltar Mines Limited

APPENDIX I

STATEMENT OF QUALIFICATION

I, Garry D. Bysouth, of Gibraltar Mines Limited, McLeese Lake, B.C., do certify that:

- i. I am a geologist
- 2. I am a graduate of the University of B.C., with a B.Sc. degree in geology in 1966.
- 3. From 1966 to the present I have been engaged in mining and exploration geology in B.C.
- 4. I personally supervised this soil sampling program and interpreted the results.

Garry D. Bysduth

APPENDIX II

ABBI	REVIATIONS	USED	IN	DRILL	LOGS
alt	t'd	alt	ere	d	
cal	L.	cal	cia	ate	
car	rb.	car	bor	nate	
chl	ι.	chl	ori	te	
ср	•	cha	lco	pyrite	e
cre	en.	cre	nul	ated	
dis	ssem.	dis	ser	ninatee	ed
fol	ln.	fol	iat	ion	
gri	1.	gra	aine	d	
h		har	dne	ess	
ру		pyr	rite)	
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rx	•	roc	:k		
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VANGEOCHEM LAB LIMITED

MAIN OFFICE 1521 PEMBERTON AVE. NORTH VANCOUVER, B.C. V7P 2S3 (604) 986-5211 TELEX: 04-352578 BRANCH OFFICE 1630 PANDORA ST. VANCOUVER, B.C. V5L 1L6 (604) 251-5656 Ł

REPORT NUMBER: 85-49-001	JOB NUMBER: 85171	GIBRALTAR MINES LTD.		PAGE	1	DF	1
SAMPLE #	Ag	Au					
	oz/st	oz/st					
81626	.02	<.005 /					
81627	(.01	(. 005 [/]					
81628	. 01	(.005 /				×.	
81629	<.01	(.005 ×					
81630	<.01	<.005					
81631	<.01	<. 005 /					
81632	<.01	(.00 5 [^]					
81633	<.01	K. 005					
81634	<.01	(. 005 /					
81635	<.01	(.005 -					
			•				
81636	<.01	(.005 -					
81637	<.01	(.005 ⁻					
81638	(.01	(.005-					
81639	<.01	(.005-					
81640	<.01	(.005 -					
81641	<.Ø1	(.005 -					
81642	<.01	(.005 1					
81643	<.01	< . 005 ⁻					
81644	(.Ø1	(.0051					
81645	(.Ø1	(.005 /					

DETECTION LIMIT 1 Troy oz/short ton = 34.28 ppm

.01 .005 1 ppm = 0.00011 .000 = nart

ppp = parts per million

(= less than



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MAIN OFFICE 1521 PEMBERTON AVE. NORTH VANCOUVER, B.C. V7P 2S3 (604) 986-5211 TELEX: 04-352578

BRANCH OFFICE 1630 PANDORA ST. VANCOUVER, B.C. V5L 1L6 (604) 251-5656

REPORT NUMBER: 85-40-002	JOB NUMBER: 85194	GIBRALTAR MINES LTD.	PAGE 1	0F	1
SAMPLE #	Ag oz/st	Au oz/st			
80805/	. 18	. 449			
BOBOE	. 49	. 407			
80807		. 402			
81646	<. Ø1	(.005 -			
81647	<.01	(.005 -	\sim		
81648	<.01	(.005 -			
81649	(.01	(.ØØ5 1			
81650	〈. 21	<.005-			
81651	く。 21	<.005-			
81652	<.01	(.005-			
81653	<. 01	(.005-			

81654	<.01	1.005 -
81655	.02	(.005 -
81656	(.Ø1	(.005 ⁻
81657	<.01	<.005 [_]
81658	<.01	(.005 /
81659	.06	(.005 /
81660	<.01	(.005 -
81661	<.01	(.005
81662	.02	(.005

DETECTION LIMIT 1 Troy oz/short ton = 34.28 pom

. Ø1 1 ppm = 8.0001% pp# = parts per million

.005

l = less than

signed:



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MAIN OFFICE 1521 PEMBERTON AVE. NORTH VANCOUVER, B.C. V7P 2S3 (604) 986-5211 TELEX: 04-352578

BRANCH OFFICE 1630 PANDORA ST. VANCOUVER, B.C. V5L 1L6 (604) 251-5656

REPORT NUMBER: 85-40-003	JOB NUMBER: 85202	GIBRALTAR MINES LTD.	PAGE 1 OF 2
SAMFLE #	Hg oz/st	Au oz/st	
80809	<.01	1.005	
80810	(.01	(205	
80811	(.01	(.005	
80812	<. Ø1	(.005	
80826	5, 61	(.005	
,	U		
80827	(.01	(. 005	
80878	(. Ø1	1,005	
BOBES	〈. ②1	(. 005	
80830	(. Q)	<.005	
81501	\$ 01	(.005	
81502 /	(.01	(. 205	
8150Z	(.01	(005	
81504	<.01	1.005	
8/505	<. 01	(.005	
81506	1.30	. 026	
a1677 LOB			
81627	<. @1	(.005 -	
81663	<. Ø1	(. 005 ⁻	
81664	۲. 10	(.005 r	
81665	(.01	<. 005 -	
81666	<.01	(.005 -	

DETECTION LIMIT 1 Troy oz/short ton = 34.28 ppm

signed:

.005 ppmy= parts per million

n (= less than



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1.005 /

MAIN OFFICE 1521 PEMBERTON AVE. NORTH VANCOUVER, B.C. V7P 2S3 (604) 986-5211 TELEX: 04-352578

BRANCH OFFICE 1630 PANDORA ST. VANCOUVER, B.C. V5L 1L6 (604) 251-5656

REPO	RT NUMBER: 85-48-003	JOB NUMBER: 85202	GIBRALTAR MINES LTD.	F	AGE	2	DF	2
SAM	1PLE #	Ag oz/st	Au az/st					
816	67	<.01	(. 005					
816	68	<.Ø1	(.005 /					
816	69	. 03	(.005					
816	70	<.01	(.005					
816	71	.02	(.005 -					

.03

81673

(= less than



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MAIN OFFICE 1521 PEMBERTON AVE. NORTH VANCOUVER, B.C. V7P 2S3 (604) 986-5211 TELEX: 04-352578 BRANCH OFFICE 1630 PANDORA ST. VANCOLVER, B.C. V5L 1L6 (604) 251-5656

KEPUKI NUNDEKI KO-46-664	JUB NUMBER: 82538	SIBRETHK MINES LID.	PHOE I UP 2
SAMPLE #	Ag	Au	
	oz/st	oz/st	
80876	<.01	<.005 /	
80877	<.01	(. 005 [/]	
80878	<.01	<.005 /	
80879	<.01	<.005 [~]	
80880	<.01	<.005	
80881	<.01	K.005 (
80882	<.01	<.005 /	
80883	<.01	<.005 ⁻	
80884	<.01	<.005 [/]	
80885	<. 01	<. 005 ⁻	
		•	
80886	<.01	<.005 /	
80887	<. Ø1	<. 005 -	
80888	<.01	<.005 ⁻	
80889	<. @1	<.005 /	
80890	<.01	<.005 / ·	
80891	<.01	< . 005 /	
80892	(.01	(.005	
80893	<.01	(.005 -	
80894	. 02	<.005 [_]	
80895	<.01	<.005 [_]	

DETECTION LIMIT 1 Troy oz/short ton = 34.28 ppm

signed:

. ⊘1 1 ppm = 0.0001≭ (

parts per million

.005

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(= less than



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BRANCH OFFICE 1630 PANDORA ST. VANCOUVER, B.C. V5L 1L6 (604) 251-5656

SAMPLE #	Ag	Au	
	oz/st	oz/st	
80896	.02	<.005 /	
80897	<.Ø1	<. 005 -	
80838	. Ø1	(.005 -	
80899	<. 01	(.005	
80900	.03	(. 005 /	
81726	.03	(.005 /	
81727	.05	(.005 🗇	
81728	<.101	(.005 -	
81729	. 09	<.005 /	
81730	. 29	(.005 /	
81731	٢. 01	<.005 /	
81732	(.01	<. 005 -	
81733	<.Ø1	<.005 /	
81734	<. Ø1	(.005 /	
81735	<.01	<.005	
81736	.02	<. 005 (
81737	.05	<.005 /	
81738	<.01	<.005 <	
81739	<.01	<.005 /	
81740	<.01	<.005 /	

DETECTION LIMIT 1 Troy oz/short ton = 34.28 ppm

signed:

. Ø1 1 ppm = 0.0001% ppm = parts per million

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			7 10 61					ANGLE TO CORE AXIS -FREQUENCY-	ESTIMAT Prairi	LIM ZONE SUPERGENE REMARS		Coro Aocovery 70	ROD	Sample	Z. Cu	16 - Mo	Ag Ag Au	Cationeda Crade
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		gra to aphanitic Prob. contains	e I				Soltide	80 90]			95					2.005	
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		Severe - poss Fault Fault		12.9	10	81436			<.005
		200 PC 200 PC 20	numerous massive		45				2.01
		T		140		81637			<:005
	10 50		clots of sulfide ar		90	81438			<.01
	150	healed with earb.	20 above	150					<.005
	30-	0 0 20 1 30 40	recry. Py often accomp by white fibrous mineral			0.720			<.01
	160	2' sheared this zone go named by cal (ry) go		60	40 	61657		-	200.>
	20 × 1 × 5	X Cal 20	200 10	5	85	0.74			<.01
	170 à 170 à	12* bx -healed by py-tark)* 50		10	80	01010			4.005 -
MED GREY CHERT / 149-	<u>-180)</u>	// (Grb)	metallic mineral arsenopyrite :						\$-01

GIBRALTAR MINES LTD HOLE No. 55-33 SHEET NO. 4 01 9 a start and a start

GRID____

and the second second

RO	X TY	PES & ALTERATION		GRA			· · · · · ·	FRACTURE		BOTTOM PORPTHS		C.101+4			AS	SAY	ULTS	
] ; ; ;					ANGLE TO		LIM, ZONE			ROD	Somple	1.5	6	<u>3/ton</u>	Cilint
			2				nin.	-FREQUENCY		SUPEROENE REMARKS	f and	7.		Miniber .	Cus	Ma	<u></u> ₩Au	
		AUGITE ANDESITE			6. 6. 80 A 50	14 14×2	Pl-carb .tem ? Carb .te	0 • · · · · · · · · · · · · · · · · · ·				85					2:01	
•		(190'-286')	H.D		- 60	4	çarb	40 50 60 70	3.0 		187			81642		×	2 005	
	·	- a med grey soft Dorous-looking +x		عدال	4 10 + 10	1/4 + 1/10		80 90 0				70					~	
		having a slight reddish hue-			1 L			10 20 30			192	106					01	
		- only minerals recog. without magnification - cuhedral avaite phenois up to 14" dia - aug.	NO		45x2	Y10 + 2 Y=	talc == talc	40 50 60 70 80			198	80		81643			<i><</i> .005	
		- gry, size ~ 120° dia - in places has a bx. texture - cut by numerous	N.D.	200	45	10	talc talc	90 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	- 2			85		21/44			<.0I	
		talcoce shears - texture generally indisting - prob.		210	4			50 60 70 80 90			206	60		01011			∢.∞5	
		an altered (carb.) rv. - under the binucular microscope:	₩-D.		1042	Y8 4 2	talc xz	0 10 20 30 10	0			80		81645			< 01	
		0.0 - red-brown		220	5	X	tale				220						<.005	
		Zinterstitud plag (+ qts?) augita ~ 40 % bio ~ 15 %	J.D	ţ	45 5 K 2	45 44 x x	talc talc.tremolite	0 0 0 0 2 0	0			80		81646			2.0I	
	n Nevîsta	- very likely an		30	5 .		₹ • • •	0 0 0 0			2.29						<.005	
		altered rx (carb -talc altin?)				٧.	talc-trenolite					90					<.01	
		N.	D .	÷	t• ×2+ 15	Y10+2+Y8	talc×3		6		: >9	85	8	31647				
				40 K	5	4	tale treme lite			1	39						<,005 .	

		GRID				₽ ¥-€	b a eta	GIBRAL	TAR MINES	E LTD			HOLE	No.: 85	- <u>33</u>				
		CC A ALTERATION	T	GR	APHIC	Chipment & Contract	- <u>1</u> 2004	an a	CRACTURE		BOTTOM DEPTHS			250		ASS	AYRES	ULTS	
- KO			L 10 Certe	Velleries V	() ()	1114 1117 1117			ANGLE TO CORE APIS FREQUENCY	ALT AND A	LEACH CAP LIM, ZONE SU PERGENE REMARS		T Core Roccorry 70	ROD	Sample Nomber	-7. Cu	- <u>%</u> Mo	<u>•3/ton</u> <u>Ag</u> Au	Estinated Crade
•	•		MD			20 30 x 12	X5 Y10 × 2	talc-tremolite talcxs	0 1 10 20 30 40 50 60 70 70			211	50		81648			2.01	
			- 	2	50	<u> </u>			80 90 0 10 20 30			253	50					2.01	
			ND	24		fo	Ул	talc-tremolite	40 50 50 70 70 90	•		258	60		81644			<.005	
•			ND		+ 4 4				2 10 20 30 40 30 50	•			55		81650			<.01	
				27	0 1 10		/s	talc	60 70 20 90	1		2.68						2.005	
					15	·	Ys	talc-trem.	0 10 20			273	85					2.01	
			σιν		· · · · · · · · · · · · · · · · · · ·	*2	Y4 #2 Y2	tak-trom. tak-trom	30 1 40 50 60 70	• •		277	85		81651			<.005	
				280	1 30	+4+ 20	10-18+5	talc-trenxs talc-carb	80 90 10 20				20					4.01	
		2.RC							30 40 50	3.0	Poss Foult centast	284	50		81652				
	e Statues is	BLACK ARGULITE (286'- 358)		290		<u>.</u>			70 80 90			290	25					<.005	
		Same as (23-169')	5-70	300	60			Ca+b	Image: Constraint of the second sec	10.0		294 296 .298	80 70 85 60		81653			<.005	

	TYPE	S B ALTERATION	1	GRAF	нс	<u>.</u>		FRACTURE		BOTTOM DEPTHS					ASS	AYRES	ULTS	
•			L to con		Atheneses			ANGLE TO CORE ANIS -FREQUENCY	estimate Verencia	LEACH CAP LIMSZONES SUPERCENE REMARKS		Caro Records 70	R 0.0	Sample semiler	- 7. 38 Cu-	- %	*3/ton EAS 1 Au	-Lotlinder Grade
•	•	in general, corc- appears aonse, very black and massive - sulfides are mainly as fine dissem's -	45		70+522	14 - Y10 + 2	Carb*3	0 / /	12.0		305 307	75		81624			2.01 	
		Almost Microscopic	•					20 10 20 20 20 20 20 20 20 20 20 2	10.0		<u>314</u> <u>318</u>	70		ξι 6 <i>5</i> 5			·02 <.005	
		2' zone of hbe { porphyry with ~ 3 % dissem py.	20- 30	1 320	30 70 30	2" Yio Yo	Carb (Py) Pi-carb Carb	90 0 10 20 30 50 60 10 20 20	6-0	· ` 11 - 24	321 323 326	50 50		81656			<.01	
			20	330	15 * 2	Y10+ Y5	carb*1	90 0 0 0 20 30 40 50 60 70 80 50 60 50 60 50 60 50 60 50 60 50 60 50 60 50 50 50 50 50 50 50 50 50 5	5-0	Milling Duck	339	85		81657			<.01 	
		•	80	340	4. 24	*	Conh		4.0		346	95		81658			<.01 	
		368'			45 60 40	4. 2. 1.	carb carb carb		6.0		357	70		81659			<.006 <005	

ROCK TYP	PES & ALTERATION		CRAPH			1	FRACTURE ANGLE TO	ITE O	LEACH CAP		(ROO	Samele	1.1.	-16*	03/ton	
		L 10 Cor		1999-1999-1999-1999-1999-1999-1999-199	- I I I I I I I I I I I I I I I I I I I		CORE ANS	11. 17 V	LIM ZONB SUPERGENE REMARS		N.T		- Minberi Minberi	Cu	Mais	Ag Au	Crai
	GREY BANDED						0 · . 10 20			361						×.01	
	ARGILLITE (358'- 428') - a distinctly banded	60- 70					30 40 50 70 80	15-0			90		81660			2:005	
	laminac of black graphite rich material		370	1 10KZ 7 807 60	10×2 15+110	Py (carb) × z corb × z	90 0 10 20 30		several ~6" sec's of massive sulfide with "and" sed tature	310						2.0 1	
	rich material - bands generally range from No-1" in width - has	60					40 50 50 70 80	20.0	W 1804	380	85		81661			<.005	
	-		380				20 0 10 20 30		"slump" texis common : ie				81469			.02	
		70	20.0				50 60 70 80 90	20.0	Daed.		85	- 				< 005	
		70		E 0	3*	Carb	0 10 20 30 40		fine textures - bands Ks - Kg * thick but grey bands are	<u>391</u> 395	80		81663			<.01	
			400				50 60 70 80 90	20.0	<u>60-80</u> % PY		80					<.005	
			Į.	20 2 3	Y10 × 3	carb De(ceeb)	0 9 20 20			104			91/14			2.01	
		70			78	LI COLLA	50 60 70 80	15.0		407	60 40		01491			<.005	
		- P	416 .	的历史的自己的			30			411			Contraction Francisco		s and the state	1985	

		GRID		1			GIBRALT	AR MINES	t LTD.	e Zorraz – Me ri 1990 - Angelander		HOLE SHEET	No. 85-1	33 - Sol -	<u>9</u>	
RO	x tře	ES B ALTERATION	L 10 eur	GRAF		wian, dr		FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED	BOTTOM DEPTHS LEACH CAP LIM. ZONE SUPERGENE REMARS		Coro Coro Rocorry 70	ROD	-Sample Mimber	AS 7 	solts <u>*3/ton</u> <u>Ag</u> could Ru
			10-60					Q / Q : 20 20 20 20 20 20 20 20 20 20	20.0		422	70		81666		K-01
		BLACK ARGIULITE (428-500') Same as 23-169' except more graphity component	5. 80	430	30 86	6 * 12 *	ribbon - carb-qtz Cherty bx-healed with atz-carb-py	80 90 0 10 20 30 30 40 50 50 50	12.0		430	85		81667		
		which appears to increase towards the bottom of the hole. Bonds of massive sulfides are still present butwidely solfed and humily	50 ?	440	3 30 + 45 45		Tibbon _ carb - qt3((py))*2	Ø0 Ø0	8.0		444	95 85 98		81668		<.04 <.065
		less than Vs' wide	30-	150	4512	Yn +Ys	Carb + 1	20 30 20 30 30 40 50 50 50 50 50 50 50 50 50 5	8.0		453	95 100		81669		~03 <.005
			10-	460					6.0		400	98		81670		<. 01 <. 005
			20?	470			broken core		6.0		471	90 60	6	31671		,02 <.ous

NOCK	TYPE	S & ALTERATION		GRAPH	«q		1	FRACTURE	1E 0.	BOTTOM DEPTHS		C	200		A55	AY TRES	os/tran	1
			Z.16 con					CORE AXIS	CELIMA % PYRI	LIM. ZONE SUPERGENE REMARS		R.c		Number	Çu ;	Mo	Ag A	
					40-43×3	7 4-Y2×3	tibben georts-carb(ry)	0 7 10 20 50	3.0		485	30		81679			≤.oi 	
			45 ?					50 60 70 80 90			487	60 8D		0			<.005	
			• 5 -		130	Y10	- Ca+b-	0 12 22 30 40	5.0		492	80		81673			.03 	
			40	500				50 60 70 90			498	85					<.003	
		<u>F.O.H.</u> 501					1. A. Remouth	0 10 20 30 40			-50							
							\$DI19.		1									
								0 0 0 2					4					
		<u> </u>			\$			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									and the second s	

GEOLOGICAL BRANCH ASSESSMENT REPORT GIBRALTAR MINES_LTD.

HOLE No. 85-34

	DCATION	Ze Claims		- /	avio terr		AFY	750		COAC 212C	N. Q.	W.		LO		<u>G.P</u>	S.B.	
14	ATE 000	100 <u>27 June 198</u> 100 <u>6 July 198</u>	5 5	_ ''	-TN5/		UTD.	тилес	and the second s		Ver	= 10 1 - Poo	r rec	<u></u>				
		• • • • • • • • • • • • • • • • • • •	T	GRAPH	9					BOTTOM		1	<u> </u>	T	ASS	SAY RE!	SULTS	
ROC	K TYPE	S & ALTERATION		U				ANGLE TO	176	LEACH CAP 0		Core	ROP	Samele	1%	1%	03/ton	T
•			7 10 10		1141)114 1141 1141	WIGIN Vola	lln=r=ti:	CORE AXIS -FREQUENCY-	1 MI 15 3	LIM. ZONE 0 SUPERGENE		R.c		Number	Cu	Mo	AQ AU	Calina Cra
					7	-		0	<u>↓</u> ↓	AEMARS			1					
•		at 12' but						20 30 40 50							•			
		cased to 17'						60 70 80										
		(bedrock @ surface) 12		}}-	·····		······································	0			12						2.01	
		ANDESITE			20	- \."	qt3- carb - chl	30 40 50	0			20		80876				
		a light green five arn to aphanitic	• *		20	1/10	ats.	60 70 60			_18						2.005	
		Aense rx - poss. a. volcano-clastic rx of chiefly				1		0 10 20				5.					<.01	
		andesitic composition - contacts not evident	7					30 A0 S0	0					8 0877		-		
		lost core						60 70 80			28						<.005	ļ
				- <u>20</u>	· · · · · · · · · · · · · · · · · · ·		extremely	0 0 10 20		ang tao	33	5					<.01	
		ARGILLITE	?	6			and Lost	30 40 50	2.0		35	20		80878				
-		(30-244)					Poss fault	60 70 80 90				5			. *.		<.005	
•		banded rx consist of med light grey		4				Q 10 20			44						≺.01	
-		laminae alternating with black graphitic	?	4				30 40 50 60	2.0			5	1	80879	-			
		bands - wiaths very between 1/20 - 1/2"		50 5				70 80 90		•	49					·	<.005	<u> </u>

•		GRID.			And the state of the state		GIBRA	LTAR MINES	-LTD.		an second base	HOLE I	No. <u>85-</u> No. 2	<u>34</u> 0[. <u>9</u>	and the second secon		
	TYP	CC A ALTERATION	1000	GRA	Рніс			FRACTURE		BOTTOM DEPTHS	_		Γ		ASS	AY RES	ULTS	
			4.10 0.11		0G			ANGLE TO CORE ANIS -FREQUENCY-	ESTIMATE ", PYRITE	LEACH CAP LIM. ZONE SUPERGENE REMARKS		Coro Rocovery 7.	ROD	Sample Number	Cu	% Mo =	⁹³ /ton Au	Catiantal Crate
•	-	figures in the folg column refer to the dips of the bands which is interpreted to be primary sed bedding A weak	7				black mud (gg?)	0 10 20 30 40 50 50 60 70 80	3.0		52	40 40		80880	•		<.01 <.005	
		cleavage is cyident which generally parallels the bedding or lies at a small angle to it. Bedding angles appear simple t uniform except in areas of arenulation						% 0 10 20 30 40 50 60 701 702			67	25		80881			<.01 <.005	
		- a pass interpretation			0 0 4 4		highly broken and los core	90 0 10 20 20 20 20 20 20 20 20 20 2	7		. 73	20 15 0		80882		-	<.01 	
		in general, blk graphitic bands are thicker than the grey laminae	7 7 •	80	(6 6 6			30 0 0 0 20 30 40 50 40 50 60 70 80	7		80	10		80883			<.01 <.005	
			60	90	40 x 3	Yiox 3	Carb × 3 Carb	90 0 10 20 30 40 50 60 70 80 60	4.0		93 99	75	e	088 4 .			<.01 <.005	•
			5- to	110	70 70 70 × 3	2'. 8 Y4• Y5 × 2	greenish grey band 9t3-carb-graphite-clay carb x 3	Ø Ø 10 70 50 60 70 Ø0 S0	3.0		106	85	8	088 5			<.01 <.005	

GRID	GIBRALTA	R MINES LTD.	HOLE NO. BS	-31 3o(9
ROCX TYPES & ALTERATION	Vern Vern Midth er Vern Vern	FRACTURE ANGLE TO CORE AXIS FREQUENCY-	Correst R.Q.D. Recovery 7.	ASSAY RESULTS semple 76 % 3/ton cutate makes a Gus move Ha cutate Au
5- 70	60 3" qt3.carb-graphite 50 60 3" qt3.carb-graphite 50 70	4.0	85 <u>118</u>	80886
5- 45	60+ to+ 10 3/4+1"+ 2" 9t2-carb 90 10 10 10 10 10 10 10 10 10 10	2.0	<u>123</u> 10	80887
138 - 150 - grey bands become thicker (up to 3") and	70 80 90 90 90 10 20 90 90 90 90 90 90 90 90 90 90 90 90 90		80 135	<.005 <.01 B0888
graphitic bands are subordinate, usually than 35° thick [140]	50 60 70 90 90 0 80 0 80 0 80 0 80 80 80 80 80 80 80		80	<.005
5. 150	30 401 30 60 70 80 90 90	I.O	143 147 40 150 20	80889 <.005 <.01
60 4 1 1	in 1/5 at 3 several 10 clots of 60 massive py 70 (up to Y's) 100	4.0	<u>153</u> 25 70 157	30890
7 b b b b b b b b b b b b b b b b b b b	473- carb) Cor 7/cdingo 10 473- carb) Cor 7/cdingo 10 10 10 10 10 10 10 10 10 10		20 162 20 167 167	<.01 <.00 <.005

		GRID						GIBRALT	AR MINES	LTD.			HOLE SHEET	No. 85 No.	<u>-34</u> 4ol	<u>9</u>			
ROC	X TYPE	S & ALTERATION		GRAPH					FRACTURE ANGLE TO COME AXIS -FREQUENCY-	ESTIMATED % PYAITE	BOFTOM DEPTHS LEACH CAP LIM. ZONE SUPERDENE REMARKS		(R.O.C	Sample Mumber	A55 7. Cu	Mo	27/ton Ha Au	C.11
		From 160 to 244 Corc appears much darker - almost jet-black and shows less banding - prob						highly broken core	0 10 20 30 40 50 60 70 80 80	30-		174	15		80892.			<:0] 	
		Dimaterial		1180	60 5x2 60-8014	2' 1/5 x 2 1/10 - 1/5 x 4	greenish (cal.s qt3.carb qt3.carb	orey band sandstone?) o(sphal-Mo)*	70 0 10 20 30 40 50 50 60 70	2.0	* sphal is a resmood yellow Wo could be rex. grophite	181 185 188	90 50		80893			<.01 	
			70	091					00	2.0		190	20		80894		•	.02	
			70-11	200					10 20 90 0 20 30 10 50	1.0		202	50 20 40		80895			<.005 <.01	
				210	ż	3'	be sone f	healed by				208	90		Rober			<.005 .02	
				220	70	2 "	qt3-carb	Veinlets 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				219	85					<.005 <.01	
			•	30		-	413-0010	88 10 10 10 10 10 10 10 10 10 10 10 10 10		1.0		229	то		80897			<.005	

.

GRID_	GIBRALT	AR_MINES_LTD	an a		HOLE SHEFT	No. <u>85</u>	<u>-3+</u>	9		
ROCK TYPES & ALTERATION		FRACTURE Q	BOTTOM DEPTHS		T.	T		ASSA	Y RES	ULTS
		ANGLE TO CORE AXIS	LEACH CAP		C	ROD	Somple	7.	~%	03/ton
		-FREQUENCY-	SUPERGENE AEMARAS		Rocorry 7.		Nomber	Cu	Mo	Ag Au
	Jone of broken and	0 / / / / / / / / / / / / / / / / / / /		235	15		80898			<.0I
240	lest Core	60 70 80 90		_239_	20					<.005
₽ 80×1 2*A	2 Carb x2	Q 10		242	50					<.01
244 7	Carb-graphite.bx zone	20 30 40		245	50		D . 0.00			
GREY CHERT		50 60 70		248	80		20844			
		90 90		250	40			l.		<.005
chert but has a 180 14	cal-chi 2				60					.03
and H S-7 - it prob.		0.5		255		8	30900			
contains Tuffaceous material and in place grades to a fine 260 "				260	80					<.005
arn clastic - rx.	0 10			262	90					.03
9t3-cul-graphite-py 70 40 1/4 shears (0-10°) 70 40 1/4	913-ckl-cavb-py 50	0.5		267	95	8	1726			• • • • • • • • • • • • • • • • • • •
$\begin{array}{c c} \hline HUGITE & ANDESITE \\ \hline (266-309') & \hline 270 \end{array}$	Carb 70 80 90		· · · · · ·						<	.005
a med to dk grey porows-looking tx	0 10 20				9<					.05
-has augite phenois 7 145 15 up to 1/4" dia	carb - chi 30 40 50 60	o		277		81	727		-	
- Cut by numerous talcase shears 280	70 80 90				0	1.			<	.005 .
- generally soft, 25 1" prob. alt.d	Carb 0			<u>~00 </u>					<	01
- under Dinocular microscope : microstud ? 70x2 Yex2	carb x2 30				-	0.7				· · · · · · · · · · · · · · · · · · ·
red-brown () () augite in () () () augite in () () () () () () () () () () () () ()	Carb 60 70 80	0	2	90	5	017	28		<,	005.

									· · · ·										
•	ر وسور و د	al e la com	GRID				i Altalaita		GIRRAI [*]	TAR MINES	ITD.			HOLE	No. 85	- 34	4	17 I. Floridad	
			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and the second s	IGRAP	на					1.	BOTTOM DEPTHS		T.	T		ASS	AY RES	ULTS
RO	CK TY	PES	B ALTERATION	::	LO	G		•		ANGLE TO	ALE	LEACH CAP	┥.	Core	ROD	Sample	1.	-16	03/ton c
										-FREQUENCY-	M112	SUPERGENE		Recovery 70		Number	Cu	Mo	H9 Au
					23 S		- - - - - - - - - - - - - - - - - - -	1 1	carb	011		AEMARKS			<u> </u>				.09
						- 10	1		Carb	10 20 30				100]	01774			
	•		291 - 296 - an aphanitic rx similiar to the	7						40 50	°		297			01721		-	
			grey chert-also no sciences	•		• ?	24	¢ "	99-bx	70 80	1			90					<.005
					1300		··· 2		gte-carb	90 0 10			301	1					·09
1					<u> </u> ·				L carb	20 30						PITO A			
				.60		1 20-30 X	+ Yi	0-/3 ×4	913 - Caro	40 50 60	0			90		61730			
			509				-		ata-carb	701 - 021			310					<u>.</u>	<.005
	1		GORYWACYE			5	6'	,	9t3. carb - graphite	Q 10				3-					2.01
			(309'- 413')			•				20 30	0 ?	greywacke contains	315	35		81731			
		6	a ak grey clastic	3		0			Core plus heavy	50		angular frags of blk argulite up to z"dia		10				· .	
		0	of volcanic fragments		320	4	1/2) 913-carb veining	10 20 90		ie,	319						<.065
	1	۲ (۲	ounded to subang.							0 10		2.30	323	1 5					2.01
		0	f blk argillite -	~			1/2		giz-Cato hisphi	30 ; 40]	0 7	101				81732			
		-	9t3 frags appear	·					broken	50 60 70	v			50					
		r -	are rx appears mod.		330) Core	80 90		· · · · · · · · · · · · · · · · · · ·	330		· · · · · · · · · · · · · · · · · · ·				<.01
		C	alcareous in places, contains			7	24'	• [•	graphitic zone	10 20				35					;• - •
		gr m	rades to a blk	?						30 40 50	0		534	55		81733			
		191	aprilie arguine		•					60 70			338			·			<.005 ·
	<u> </u>	+		-#	340	<u>;</u>	112"		prophitic sone	90 0			341	50		<u> </u>			<.01
						•			sott be sone - ang. Frags of banded argillite	20 20						19 - A.			
				?	- 4			}	in greywacke matrix all of which has been		0			75		81734			
		.			L				broken and "healed" by carb-also several	0			350					<u> </u> .	<.005

1: A		GI	RID					GIBRALT	AR MINES	LTD.	an a	5	HOLE	No. <u>85</u> . No7	34 <u>-</u> of	9			
ROCK	TYPES	B ALTERATIO	N	te cer	GRAPH		altri i		FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	STATES	BOTTOM DEPTHS LEACH CAP LIM. ZONE SUPERGENE		E	R O D	Sample Mumber	455 7. 1 ¹ Cu	Mo	<u>e3/ton</u> Ag	I.
				2	E E	5	8	gg-bx Small steep foult	0 10 20 50 50 50 50 50 50 50 50 50 5	0	REMARS	360	70		81735			<.005	
		<u> </u>	•	2	340	15x2 60?	3' ''+ ½ 8" 3'	graphite -qt3 carb 30nc qt3 - carb x2 qt3 - carb graphite 30nc	% Ø 10 20 30 40 50 50 60 70 70 70	0?		365	85 80		81736			.02 <.005	
				70	370	5-80	<u> 4</u> -У5 с"	30ne of qtz. carb stockwork graphitic zone	90 0 10 20 50 40 50 10 20 20 50 50 50 50 50 50 50 50 50 5	0?		<u> </u>	85		81737			.05	· · · · · · · · · · · · · · · · · · ·
		greywacke grade to banded lk grey arg: []ite	s) 7		380				90 0 0 0 0 0 0 0 0 0 0 0 0 0	1.0?	_	382 389	80 85 90		81738			<. 01	
			70		510	7042	4". 6"	graphitic zone xz	0 10 20 30 40 50 60 70 80	0		400	90		81739			<.005	
			80		400	70 20 X S	6" Ys-Y10 75	graphitic carb zone carb x 5	%2 0 10 20 20 20 20 20 20 20 20 20 2	0		4.08	90	· · · · · · · ·	81740			<.01	

				CRAP	410	an di se se si i Mili se si se se si s				BOTTOM DEPTHS			and the second		ASS	SAY RES	SULTS	_
ROCK	TYPES	B-ALTERATION		LOG				ANGLE TO	110	LEACH CAP		Core	ROD	Sample	1.	%	1º3/tor	Ţ
	•				1		1	CORE AXIS	12 2	LIM. ZONE	1 👬	Recovery		MARCE	3		Ag	T
					1 × 1			-FREQUENCY-	5 %	SUPERGENE	133	7.					Au	
	·			द ् दः गा	, m		에 관리가 가갑갑자 특별상의 이 이었다. 이 아이지 않는 것이 아이지 않는 것이 같았다.	01.		# Anoular 1-2"dia blk	1							
		grey wacke becomes						10	1	argillite frags in		85						
		@ contact. # 413						- 1 20	1	greywacke matrix	+							
•								50	.5		416	1	1			1	1	
		BLACK ARGILLITE	70		4			70	1			90					· · · ·	
• .		grades from blk		420	80	1"	atz-carb	90	ļ		421	1					1	Ī
		graphitic argillite	·	1	80+10	2"+1"	gt3-carbx2	0			-	45						
	ľ	to grey and blk]]			20 30			424							
	6	and to fine any	2		5+ 60	2"+ 1/2	qt3-earbx2	40 50	.5						Į.			
		greywacke. No	· ' +		H			701				80						
	5	eem to grade from	f	420	-			90			430			· · · · · · · · · · · · · · · · · · ·			1	t
		sith Thicknesses of	é		80	2.	gtz.carh)	0										
	2	ire calcareous. In						20				75			1			
	9	eneral, the avgillite	Bo 4				L tanalom	40	1.0							ŀ		
	P	redominates over	1				Massive Dr	60 · · · · · · · · · · · · · · · · · · ·			490							
	a	reywacke phases.			1) and at 3. carb	<u>ec</u>			151						+	\dagger
				1940	1	1		0										
			E.			5."	ata-carb)a strongly	20:				80						
			80		7012	1 * 2 2	9tz-carbx2 (graphitic	401	.5							1		
			i.				Jone - Jone	60			448							
)	80		•								+
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			7		·			40	1.0						м			
			Ť [4]					60				90						I
			5		?	6'	a 9t3-carb-graphite				460					ļ	<u></u>	ł
				460 [4			crushed graphitic matrix	0 10										I
· · · · ·) most	20				85						
			2	1			PY appears as		1.5		466							
		some shears	·	4			> rounded 1/20-Yio dia	50 10		-			İ					
	C	ited with maladhite.			1		Ciais in time	0				85						L

HOLE NO. 85-34 SHEET NO. 19 9

ROCH	(TYPE	S B ALTERATIO	N 1	GRAPH	uq			FRACTURE	<u> </u>	BOTTOM DEPTHS		Con-01+0			ASS	AY RES	ULTS	
•								ANGLE TO CORE ANIS -FREQUENCY-	11 2 2 2 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1	LEMEN CAP LIM ZONE SUPERCENE REMARS		Core Accorry 70	ROD	Sample Number	7. Cu	% Mo	^{os} /ton Ag Au	
				I				0			473							T
	•		80	•	4			40 50 60 70 80	2.0		478	1 0						
	• .			<u> </u>	•			90 0 10 20 30			184	50						ŀ
:				490			> mainly grey wakke with round clots of pr up to Yio'dia	40 50 60 70 60	2.0 		488	50				-		
			70		°0°	8-	massive py which appears to replace frags in a fine peoble conglomerate	0 10 20 50 10 10 10 10 10 10 10 10 10 1	6.0		496	50				-		
		EOH 501		- 		10"	stringers, clots and veinlets of massive py x-culting 9 bedaing of banded arguilite				501	80			r			
						l.	Byrouth 17											
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