

24624

**DIAMOND DRILL REPORT**

on the

**ZE CLAIM GROUP**

Cariboo Mining Division

93B/9W

(Latitude 52°35', Longitude 122°17')

OWNER and OPERATOR  
Gibraltar Mines Limited  
P. O. Box 130 McLeese Lake, B. C.  
VOL 1P0

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GEOLOGICAL SURVEY BRANCH  
ASSESSMENT PROGRAM  
EXPLORE B.C. PROGRAM  
MEMPR

Authors: G. E. Barker  
G. G. Grubisa

Submitted: February 1995

24,624

PART 1 of 5

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## 1. INTRODUCTION

The ZE Mineral Claim Group is located in the Cariboo Mining Division approximately 6.5 kilometres west of the Gibraltar Mines Concentrator (see Figure 1). Access is via the Moffat Lake logging road which links the property to Highway 97 about 35 kilometres north of McLeese Lake, B.C..

The original claims of the ZE Group were staked in 1977 to cover a large IP anomaly. Drilling programs were carried out in 1978, 1981, 1985 and 1986 and are reported in the following Assessment Reports by G. D. Bysouth. A geochemical soil survey report written by G. E. Barker in 1993 is the most recent assessment of work done on the ZE Claim Group.

1. Percussion Drilling Report, ZE Mineral Claims, July 1978
2. Diamond Drill Report, ZE Group, 1981
3. Diamond Drill Report, ZE Group, 1985
4. Diamond Drill Report, ZE Group, 1986
5. Diamond Drill Report, ZE Group, 1987
6. Geochemical Soil Survey Report, ZE Group, 1993

In 1989-90, mineral claims ZE2, ZE4 and ZE8 were dropped. Subsequently, three new mineral claims, ZE9, ZE10 and Zell were staked in June 1993 and the ZE claims were regrouped.

This report deals with a 1994 diamond drill program conducted on the ZE11 mineral claim to evaluate the geochemical anomalies that were identified in the previous field season. Five vertical NQ diamond drill holes (94-1 to 94-5) totalling 847.0 metres were completed. Drilling was undertaken by L.D.S. Diamond Drilling Ltd. of Kamloops, B.C. during the period May 4 to May 12, 1994. The whole core was assayed per ten foot interval with the exception of a four inch lithologically representative sample kept for each ten foot interval. These representative samples are currently stored at Gibraltar Mines.

## 2. MINERAL CLAIMS

The mineral claims of the ZE Group are shown in Figure 1 and claim information is tabulated below:

<i>MINERAL CLAIM</i>	<i>TENURE NO.</i>	<i>NO. OF UNITS</i>	<i>DATE OF RECORD</i>
ZE1	204015	20	July 22, 1977
ZE3	204539	20	August 17, 1981
ZE5	204975	6	August 16, 1985
ZE6	204974	10	August 16, 1985
ZE7	204975	2	August 16, 1985
ZE9	318165	15	June 14, 1993
ZE10	318168	10	June 8, 1993
ZE11	318169	14	June 16, 1993

All claims are owned by Gibraltar Mines Limited.

### 3. TOPOGRAPHY AND GEOLOGY

The ZE claims cover a series of low rocky hills separated by tracts of poorly drained ground at elevations between 1100 to 1500 metres. Previous work has revealed the area is underlain mainly by Jurassic volcanics and pyritiferous graphitic argillite. Rocks of the Cache Creek Group have been observed along the south and west margins of the claim block. Zones of zinc enrichment have been found to be associated with the pyrite and pervasive quartz-ankerite veining developed in the argillite and adjacent rocks. Recent work has revealed the presence of tonalite in contact with the Cache Creek Group and copper mineralization has been observed in the contact area. This discovery initiated the 1993 claim staking and subsequent geochemical soil survey.

### 4. DRILL PROGRAM

#### 4.1 Objective

The purpose of the drill program was to test for copper mineralization by drilling previously identified geochemical targets and to delineate the lithological contact between the Cache Creek metasediments and the Granite Mountain Batholith.

#### 4.2 Results

The drill hole locations are shown in Figure 2. Drill logs can be found in Appendix B.

**94-1** - Drill hole 94-1 was drilled at the northern end of ZE11. It was cased to 36.6 metres and drilled to 169.8 metres.

Pyritiferous graphitic argillite was encountered throughout the hole. The graphitic argillite unit is characterized by its well defined bedding/foliation and by the pervasive nature of the quartz-carbonate veins that inundate this unit. No economic mineralization was intersected in 94-1.

**94-2** - Drill hole 94-2 was also drilled at the northern end of ZE11, and west of 94-1. It was cased to 22.6 metres and drilled to 167.9 metres.

Varying thicknesses of interbanded black argillite and grey/green siltstone were intersected throughout most of the hole. However, the most noticeable unit in the hole was the occurrence of a hornblende rich mafic/ultramafic intrusion occurring from 39.6 - 79.7 metres. No economic mineralization was intersected in 94-2.

**94-3** - Drill hole 94-3 is located at the southern portion of ZE11, just east of the west side of the ZE11 claim boundary. It was cased to 39.3 metres and drilled to 169.8 metres.

This hole intersected a wide variety of metasediments including calcareous siltstone, calcareous chert, siliceous grey siltstone, grey siltstone, and dark grey argillite. The Granite Mountain Phase Quartz Diorite, which is one of the phases of the Granite Mountain Batholith, was intersected at 134.4 metres and continued to the end of the hole. No economic mineralization was intersected in 94-3.

**94-4** - Drill hole 94-4 is located east of 94-3 in the southern area of the ZE11 claim. It was cased to 32.9 metres and cored to 169.8 metres.

A wide variety of lithologies were once again encountered. An altered epidote-chlorite Mine Phase Quartz Diorite was intersected at surface to 61.0 metres. Typical interbanded metasediments underlie the mine phase which are in turn intruded by the hornblende-bearing mafic/ultramafic intrusive occurring from 73.5 to 77.7 metres. The Granite Mountain Phase Quartz Diorite is intersected at 91.1 metres and continues to the end of the hole. Heavy clay alteration is present in the Granite Mountain Phase intervals resulting in the core having a vuggy, friable appearance with associated low RQD's. No economic mineralization was intersected in 94-4.

**94-5** - Drill hole 94-5, which is also located at the southern end of ZE11, was the last hole to be drilled on the ZE claims for the 1994 season. It was cased to 24.7 metres and drilled to 169.8 metres.

Intersections of the mafic/ultramafic phase and the Granite Mountain Phase were again encountered. There appears to be a gradational zoning in the mafic/ultramafic phase whereby the upper sequences (mafic phase) contain more plagioclase feldspar than the underlying hornblende-biotite rich ultramafic phase. There is also a slight difference in shading of the two sub-units; with the upper plagioclase feldspar rich unit having the lighter shade of the two. The Granite Mountain Phase Quartz Diorite is intersected at 128.0 metres and continues to the end of the hole. It displays the general characteristics as the same unit does in drill hole 94-4. Clay alteration accompanied with hematite staining is very common throughout the zone. Talcose shears are common as well. No economic mineralization was intersected in 94-5.

#### 4.3 Interpretation

Diamond drill holes 94-3, 94-4, and 94-5 all intersected the contact between the Granite Mountain Pluton and the Cache Creek Group of rocks. Although drill holes 94-1 and 94-2 did not cross the contact, these holes provided an understanding of the association of various metasediments found within the Cache Creek Group of rocks.

Economic sulfide mineralization was absent in all of the drill holes. Pyrite mineralization, hosted by graphitic argillite, was encountered in drill hole 94-1. The well defined nature of the bedding and the presence of pyrite indicate that environment of formation was non-turbulent and reducing.

#### 4.4 Assay Procedures

##### Total Copper and Zinc

Total copper and zinc analysis were carried out on 2 gram samples dissolved in 15 millilitres of  $\text{HNO}_3$  and digested until fumes were expelled. 20 millilitres of HCl was then added and the sample digested for a further 5 minutes. This solution was then bulked to 200 millilitres with  $\text{H}_2\text{O}$ . A portion of filtered solution was then assayed using standard atomic adsorption techniques.

Silver

Low grade silver analysis was carried out on 30 gram samples dissolved in 50 millilitres of HNO<sub>3</sub>, then brought to a boil. 100 millilitres of HCl was then added and dissolved at room temperature for 4 hours, agitating regularly. The remaining solution was then bulked to 200 millilitres with H<sub>2</sub>O. A portion of filtered solution was then assayed using standard atomic adsorption techniques.

Molybdenum Sulfide

MoS<sub>2</sub> analysis was carried out on 2 gram samples dissolved in 15 millilitres of a KClO<sub>3</sub> saturated HNO<sub>3</sub> solution and boiled until fuming was complete. 20 millilitres of HCl was then added and digesting occurred for 5 minutes. AlCl<sub>3</sub> was added to bring the final solution to excess of 1000 ppm Al. The remaining solution was then bulked to 200 millilitres with H<sub>2</sub>O. A portion of filtered solution was then assayed using standard atomic adsorption techniques.

**5. STATEMENT OF EXPENDITURES**1994 Drilling on the ZE Mineral Claim Group

## 1) Diamond Drilling Costs

L.D.S. Diamond Drilling Ltd. of Kamloops, B.C.

Contracted cost = \$29,731.11

**\$29,731.11**

## 2) Supplies

Core Boxes - 148 @ \$7.65/box = \$1,132.20

Sample Bags - 270 @ \$0.23/bag = \$62.10

Miscellaneous (flagging tape, topo thread, etc.) \$50.00

Total Supplies \$1,244.30

**\$1,244.30**

## 3) Vehicle Costs

4X4 Truck Rental - 12 days @ \$31.89/day = \$382.68

**\$382.68**

## 4) Sample Preparation and Assay Costs

228 @ \$10.00/sample = \$2,280.00

(samples assayed for Total Cu, MoS<sub>2</sub>, Zn, and Ag)**\$2,280.00**

## 5) Personnel Costs

G. Barker - Supervision and Field Work -

24 hours @ \$33.77/hour = \$810.48

G. Grubisa - Supervision, Field Work and Core Logging -

86 hours @ \$29.13/hour = \$2,505.18

D. Poon - Core Logging -

57 hours @ \$20.91/hour = \$1,191.87

Total Personnel

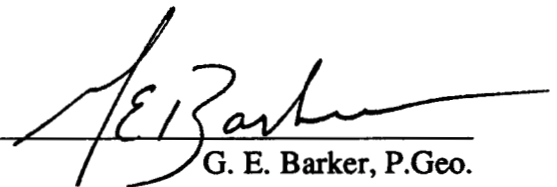
**\$4,507.53**

## 6) Total Costs

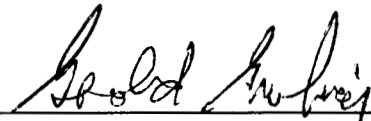
**\$38,145.62**

## 6. CONCLUSION

Although drilling results were discouraging, the contact between the Granite Mountain Pluton and the Cache Creek Group of rocks was encountered. Future work should focus on defining the depth and extent of the rocks in the Granite Mountain Pluton. This work should involve claim staking to the west of the ZE mineral claim group, followed by an IP geophysical survey.



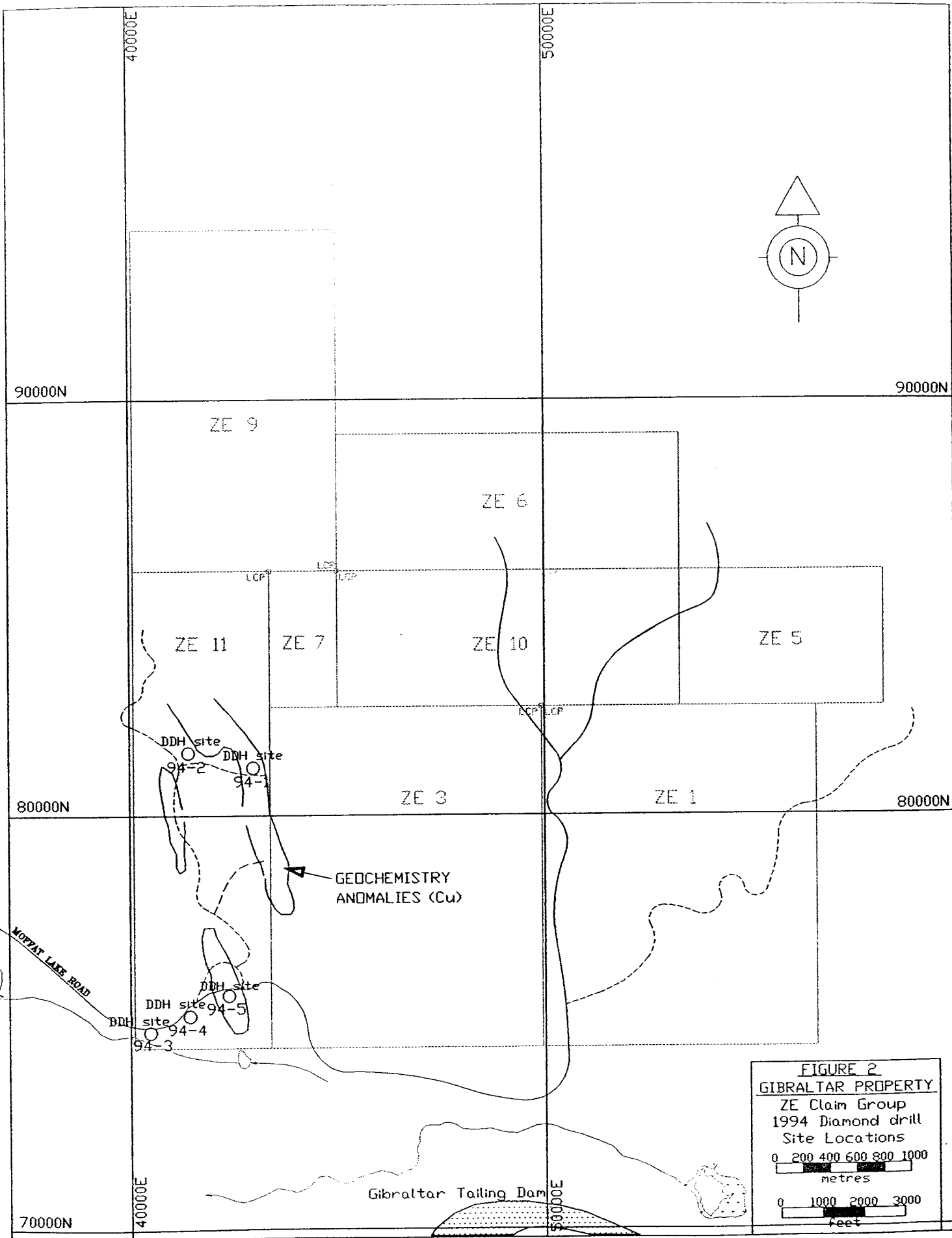
G. E. Barker, P. Geo.  
Senior Geologist  
GIBRALTAR MINES LIMITED



G. G. Grubisa  
Mine Geologist  
GIBRALTAR MINES LIMITED





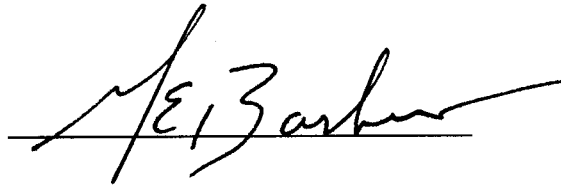


**FIGURE 2**  
**GIBRALTAR PROPERTY**  
 ZE Claim Group  
 1994 Diamond drill  
 Site Locations  
 0 200 400 600 800 1000  
 metres  
 0 1000 2000 3000  
 feet

**APPENDIX A. Statement of Qualifications - George E. Barker**

I, George E. Barker, of Gibraltar Mines Limited, McLeese Lake, British Columbia, do certify that:

- I am a Professional Geoscientist.
- I am a registered member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, registration number 19697.
- From 1978 to the present I have been engaged in mining and exploration geology in British Columbia.
- I personally supervised the exploration program, interpreted the results, and co-authored the report.



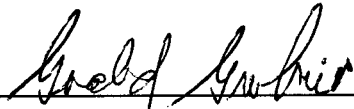
George E. Barker, P.Geol.



**APPENDIX A. Statement of Qualifications - Gerald G. Grubisa**

I, Gerald G. Grubisa, of Gibraltar Mines Limited, McLeese Lake, British Columbia, do certify that:

- I am a geologist.
- I am a graduate of the University of Alberta, with a Bachelor of Science with Specialization in Geology, dated 1992.
- From 1992 to the present I have been engaged in mining and exploration geology in British Columbia.
- I personally participated in the field work, logged the core of two of the diamond drill holes, assisted in the interpretation of the results and co-authored the report.



\_\_\_\_\_

Gerald G. Grubisa, B.Sc.

**APPENDIX A. Statement of Qualifications - Dick Poon**

I, Dick Poon, of Gibraltar Mines Limited, McLeese Lake, British Columbia, do certify that:

- I am a geologist.
- I am a graduate of the University of Alberta, with a Bachelor of Science with Honours in Geology, dated 1994.
- From May 1994 to the present I have been engaged in mining and exploration geology in British Columbia.
- I personally logged the core of three of the diamond drill holes.

  
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Dick Poon, B.Sc.

**APPENDIX B. Diamond Drill Hole Logs**



GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-1 Page 2 of 8

ROCK TYPES and ALTERATION	Foliation angle and tenacity	GRAPHIC LOG Rc type & Alt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	ppm % Cu	ppm % MoS2	ppm % Zn	ppm % Ag	ppb Au	Estimated Cu Grade	
							Remarks														
	ND	160	30 30-50	1/8 x 10 1/20 x 20	qtz-carb folded qtz-carb vns w diss py throat	<.5						100	40	52604	79 .01	20 .002	166 .02	2			.01
	ND	170	? ? 30-70 80	1' 2' 1/2 x 2 1/4"	brk rx brk rx qtz-carb (py) qtz-carb	<.5						97	20	52605	69 .01	30 .003	184 .02	2			.01
	ND	180	? 70 80	4' 1/4" 1/8"	brk rx qtz-carb-py qtz-carb-py	<.5						85	23	52606	72 .01	34 .003	222 .02	1			.01
	ND	190	20 30 60	1/2" 1/4" 3/8 x 2	brk rx granitic gneiss brk rx qtz-carb (py) qtz-carb-py	<.5						75	10	52607	73 .01	38 .004	205 .02	1			.01
185-187 → zone of intense high density py veinlets	ND	200	70 60-70 80	1/2 x 6 1/2 x 20 1/8"	qtz-carb py veinlets qtz-carb	.5						85	27	52608	71 .01	27 .003	235 .02	1			.01
	60-70 good	210	60-70 40	1/2 x 10 1/8"	qtz-carb (py) qtz-carb	<.5						98	70	52609	75 .01	34 .003	187 .02	1			.01

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-1 Page 3 of 8

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rt Type & Alt. Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS		Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS						
							Leach Cap					Sample Number	ppm %	ppm %	ppm %	ppm %	ppb	Estimated Cu Grade
							Leachable Ox.						g/t	g/t	g/t	g/t		
							Lim. Zone						Cu	MoS2	Zn	Ag		
Supergene		Au																
Remarks																		
	50-70 mod	220	70 9	4" 6"	gfa-carb-py h&k FX	<.5			217	95	43	52610	74	26	270	1		.01
	50-70 mod-str	230	60-70	3/8"x2"	gfa-carb-py	<.5			227	100	73	52611	73	26	287	1		.01
	50-70 mod	250	40 10-10 10-10	4" 4-8"x5" 4-8"x12"	carb gfa-carb-ash gfa-carb-py network	<.5	well defined bedding		237	92	60	52612	70	25	201	1		.01
	50-50 mod-str	250	5 70 5-70 70	4" 1" 4-8" 4"	py gfa-carb gfa-carb-py py	<.5			247	100	90	52613	70	26	246	1		.01
	60-80 str	260	70 70x6 70	4" 4x6 2 1/2"	gfa-carb gfa-carb h&k FX	<.5	well defined bedding		257	90	33	52614	75	28	282	1		.01
	50-70 str	270	60 70 80 80x3	4-8"x3" 5" 1" 4-8"x3"	gfa-carb py gfa-carb gfa-carb	<.5	well defined bedding		267	92	57	52615	70	31	193	1		.01



GIBALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-1 Page 4 of 8

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Str type & Alt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS			Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS						
							Leach Cap	Leachable Oz.	Lim. Zone				Sample Number	ppm %/t	ppm %/t	ppm %/t	ppm lb/ton	ppb	Estimated Cu Grade
							Supergene	Remarks	Cu					MoS2	Zn	Ag	Au		
272'-286.5' → high density py veins semi-parallel to bedding structure	50-90 str	286	70	1/2" x 5'	py-(carb)	.5				277	85	25	52616	69	23	170	1		.01
			30	1/2" x 5'	py														
			?	3'	brk rx														
	50-60 str	290	40-50	1/2" x 10'	py	<.5				287	65	17	52617	72	21	189	2		.01
			?	3 1/2'	gg bx														
			?	1'	brk rx py-carb														
	70-80 med	290	?	3"	brk rx	<.5				277	100	10	52618	70	28	290	2		.01
			60	1/2" x 3'	py-carb														
			40-50	1/2" x 4'	vuggy py-carb														
	70-80 med	310	?	1'	brk rx/agg w brecciated texture	<.5				327	75	30	52619	68	27	203	2		.01
			30	1"	py-carb carb-(py)														
			30-33	1/2" x 5'	carb-(py)														
310'-337' → Possible fault - characterized by a zone carbonaceous content. - slickensides evident on brecciated semi-consolidated zone.	ND	320	?	1'	gg → w shalesides	<.5				317	90	7	52620	67	30	159	1		.01
			30	1"	py-carb														
			30	1/2"	dis py vein														
- high breccia zone. - bedding not determinable. - low Cu concentrations of dis. py.	ND	330	20-30	1/2" x 5'	py-carb-(py)	<.5				327	80	3	52621	66	52	225	1		.01
			?	7'	brk rx/agg														
			70-73	1/2" x 3'	carb-(py)														



GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-1 Page 6 of 8

ROCK TYPES and ALTERATION	Foliation angle and linearity	GRAPHIC LOG Rt type & Alt. Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone	Saprophyte				Sample Number	ppm %	ppm %	ppm %	ppm oz/ton	ppb	Estimated Cr Grade	
							Remarks								Cu	MoS2	Zn	Ag	Au		
↑ in gtz-carb vein density cont'd	60-70 med-str	400	30 50-70 50 70	1/4" 1/8"-1/4"x200 1/4"x2 1/8"x3	gtz-carb gtz-carb cutting gtz-carb gtz-carb-py	<.5						100 377	52	52628	68 .01	42 .004	193 .02	1			.01
	60-70 med	410	60-80 90	1/8"-1/4"x40 2/8"	gtz-carb (py) gtz-carb	<.5						100 407	53	52629	.01 .01	.002 .004	.02 .02	1			.01
	40-70 wk-med	420	30 10-90 50 30-70	8" 1/4" 1/8"-1/4"x30 1/2" 1/8"-1/4"x3	brk rx gtz-carb mottled gtz-carb veins gtz-carb gtz-carb (py)	<.5						90 417	27	52630	.01 .01	.006 .006	.02 .02	1			.01
	80 str-ND	430	60-70 5-90 ?	1/2"x2 1/8"-1/4"x50 1 1/2"	gtz-carb (py) mottled gtz-carb veins brk rx	<.5						85 427	50	52631	.01 .01	.002 .002	.02 .02	1			.01
428.5' - 451' <b>FAULT</b> - characterized by semi-consolidated brecciated core, flt ag, and brk rx. - gtz-carb veining in varying random orientations - shearsides largely unaltered on fractures	ND	440	? ? ?	2' 5'	semi-consolidated brecciated core w/ gtz-carb veins brk rx	<.5						85 427	0	52632	.01 .01	.002 .002	.02 .02	1			.01
	70-80 med-str	450	? 30-60 ?	5' 1/2"x12 3"	brk rx gtz-carb brk rx	<.5						75 447	3	52633	.01 .01	.002 .002	.02 .02	1			.01

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-1 Page 7 of 8

ROCK TYPES and ALTERATION	Foliation angle and linearity	GRAPHIC LOG Rt type & Alt. Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS		Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS						
							Leach Cap	Leachable Ox.				Sample Number	%	%	%	oz/ton	ppb	Estimated Cu Grade
							Lim. Zone	Supergene					Cu	MoS2	Zn	Ag	Au	
							Remarks											
	70 N16- str	460	40-50	1/2" x 1/2"	brk rx matrix of carb veins	<.5			100	57	52337	.01	.003	.02	1		.01	
	60-80 str	470	70	1/2" - 5/8"	py-carb py-carb-(py) py-carb-(py)	<.5	fine-course diss py	100	467	67	52335	.01	.002	.02	1		.01	
	70 str	480	?	1/2"	brk rx	<.5		90	477	33	52333	.01	.002	.02	1		.01	
	30-30 mod str	490	?	1"	brk rx - fine bedding	<.5		85	487	23	52337	.01	.005	.02	1		.01	
491' - 530' => FAULT - bedding undisturbed - general alteration mass of brk rx + py - thicker quartz veins are evident in the fault zone. See also mineralogical notes.	ND	500	40-50	1/2" x 1/2"	py-carb py matrix	<.5	highly graphitic slickensides	90	497	13	52333	.01	.003	.04	1		.01	
observed as 15' thick veins. - general alteration on fractures and interveins.	NL	510	?	10"	brk rx py-carb	<.5		60	507	0	52333	.01	.007	.03	1		.01	

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-1 Page 8 of 8

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS						
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	% Cu	% MoS2	% Zn	oz/ton Ag	ppb Au	Estimated Cu Grade
							Remarks													
FRANK CONTOID	ND	520	?	3'	brktx	<.5					70	0	52640	.01	.007	.07	1			.01
	70-80 str	530	?	7'	brktx	<.5					95	47	52641	.01	.004	.006	1			.01
	70-80 mod str	540	?	30'	brktx gr-corb	<.5					100	23	52642	.01	.006	.17	1			.01
545'-557' Extensive zone, core is fairly competent fractured zone	70-80 str	550	?	1'	brktx	<.5					90	23	52643	.01	.007	.04	1			.01
		557	?	5'	brecciated zone.	<.5					100	-	52644	.01	.002	.02	1			.01
					557' EOH															



GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Scale type at depth Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS						
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	g/T 62/100	ppb	Endward Cu Grade
							Remarks								Cu	MoS2	Zn	Ag	Au	
GREY-GREEN SLTSTONE META-SEDIMENTARY UNIT 110' to 130'	50° to 60° WK	120	60°	1/8" x 10	qtz-carb	4.5	- diss py throughout unit - fine grained, yellow, soft mineral (possibly epidote) in a few thin layers throughout unit				117	99	43	52355	.01	.003	<.01			.01
			10-20"	3/4" x 5	qtz-carb															
			60°	1/8" x 1	qtz-carb		- veins are cross cutting each other - dark green, blks very soft 'stringers' of chlorite													
DIORITE / GABBRO 130' to 141.5'	ND	130	60°	1/8" x 1	qtz-carb	4.5	- Some of the hornblende grains are euhedral and have a diamond shape in cross-section. - unit has a varying percentage of hornblende				137	99	53	52357	.01	.001	.01	2		.01
			10-70"	1/8" x 1/16" x 1/16" x 1/16"	qtz-carb															
			80°	1/4" x 1	qtz-carb															
This unit is highly mafic. A dark grey unit with large, dark green blebs of chlorite (altered from hornblende). Matrix is composed chiefly of Qtz + biotite + minor plagioclase. The core appears to break along possible - calcite / chlorite / quartz. The luster of the shears resembles a phyllite and has a "soapy" feel. The unit is calcareous with minor number of veinlets throughout unit. The contact between this unit and the previous unit is quite sharp.	ND	150	40°	1/4" x 1	qtz-carb	4.5	blebs to matrix relationship remains constant. - hornblende crystals are stubby and have no preferred directions. - the biotite grains have				147	98	43	52359	.01	.002	.01	2		.01
			60°	1/4" x 1	qtz-carb															
			80°	1/4" x 1	qtz-carb															
	ND	160	0°	1/4" x 1	qtz-carb	4.5	a random orientation - this unit does not have any large brittle zones like the Banded Metasedimentary unit. - diss py throughout unit				157	99	50	52359	.01	.002	.01			.01
			10°	1/4" x 1	qtz-carb															
			10°	1/4" x 1	qtz-carb															
	ND	170	5°	1/4" x 1	qtz-carb	4.5					167	100	77	52360	.01	.001	.01			.01

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ROCK TYPES and ALTERATION	Foliation angle and locosity	GRAPHIC LOG Ex. Dpt. of Ash Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS		Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.				Sample Number	%	%	%	g/T	ppb	Estimated Cu Grade	
							Lim. Zone	Supergene					Cu	MoS2	Zn	Ag	Au		
							Remarks												
	ND	180	5°	1/2" x 1	qtz-carb	<.5			177	100	67	52661	.02	.001	.01	1			.01
	ND	193	0°	1/2" x 1	qtz-carb	<.5	some light colored felsic bands (possible dyke) incorporating hornblende blebs		187	99	63	52662	.01	.001	.01	1			.01
	ND	203	30°	1/2" x 1	qtz-carb	<.5			197	100	80	52663	.01	<.001	.08	1			.01
	ND	210	35 to 60°	1/2" x 1	qtz-carb	<.5			207	100	80	52664	.01	.001	.08	1			.01
	ND	220	0 to 30°	1/2" x 1	qtz-carb	<.5			217	100	83	52665	.01	.001	.11	1			.01
	NS	230	5°	1/2" x 1	qtz-carb	<.5			227	100	87	52666	.01	.002	.09	1			.01
			0°	1/16" x 1	qtz-carb	<.5			237										



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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS								
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	g/t or/ton	ppb	Estimated Cu Grade		
							Remarks								Cu	MoS2	Zn	Ag	Au			
	ND	240	45° 70°	1/4" x 1 1/8" x 1	gtz-carb gtz-carb-chl?	<.5						227	100	50	52667	.01	.002	.06	1			.01
	ND	250	45°	1/2" x 1	gtz-carb - chl?	<.5						247	100	43	52668	.02	.002	.05	1			.01
	ND	260	20° 70°	1/2" x 1 1/2" x 1	chl? chl?	<.5						257	100	53	52669	.01	.001	.06	1			.01
GREY-GREEN SILTSTONE META-SEDIMENTARY UNIT: 261 to 281 This unit is similar to the previously described Grey-Green Siltstone Unit. Within this unit there are several examples of the Border-Phase.	ND	270	10° 30°	1/4" x 1 1/5" x 1	gtz-carb gtz-carb-chl	<.5						267	100	70	52670	.02	.001	.09	1			.01
Diorite interfingering throughout. Therefore, within about a 15' interval there is an alternating sequence of the Grey-Green Siltstone unit and the Border-Phase diorite unit. The contact between this unit and the Border-Phase diorite unit is fairly sharp.	20° to 30° wk	280	50° 80°	1/2" x 1 1/8" x 5	gtz-carb gtz-carb	<.5						277	100	73	52671	.01	.001	.06	1			.01
		290	50° 60° to 90°	1/2" x 5 1/4" x 3	gtz-carb	<.5						287	100	70	52672	.01	.001	.05	1			.01

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	% Cu	% MoS2	% Zn	g/T oz/ton Ag	ppb Au	Estimated Cu Grade	
							Remarks														
				1/16" to 1/8"		<.5						100	70	52673	.02	.002	.05	1			.01
	30° to 35° WK		20° 5°	1/8" x 1 1/16" x 1	qtz-carb qtz-carb	<.5						100	80	52674	.01	.001	.05	1			.01
			20° 10°	1/16" to 1/8" x 1 1/8" x 1	qtz-carb qtz-carb	<.5						100	67	52675	.01	.001	.05	1			.01
				1/16" to 1/8"		<.5						100	67	52676	.01	.001	.05	1			.01
						<.5						100	73	52677	.01	.001	.08	1			.01
						<.5						100	67	52678	.01	.002	.06	1			.01



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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rz type & Alm. Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS			Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone				Sample Number	%	%	%	3/T oz/ton	ppb	Estimated Cu Grade	
							Supergene	Remarks	Cu					MoS2	Zn	Ag	Au			
			20°	1/8" x 1'	gtz-carb	1.5				417	99	23	52685	.01	.002	.07	1			.01
			20°	1/8" x 1'	gtz-carb															
			5°	1/4" x 1'	gtz-carb	1.5				427	100	70	52686	.01	.003	.01	1			.01
			0°	1/4" x 1'	gtz-carb															
<b>BANDED METASEDIMENTARY UNIT!</b> 431' to 499'	30° to 70° str		40°	1/8" x 1'	gtz-carb	1.5				437	100	53	52687	.01	.003	.01	1			.01
This unit is similar to the previously described Banded Metasedimentary Unit. The contact between this unit and the Green siltstone unit is faintly sharp.			50°	1/8" x 1'	gtz-carb															
			70°	1/8" x 1'	gtz-carb	1.5				447	96	13	52688	.02	.003	.02	1			.01
						1.5				457	95	17	52689	.02	.003	.01	1			.01
			60°	1/8" x 1'	gtz-carb															
			75°	1/8" x 1'	gtz-carb	1.5				467	91	20	52690	.01	.003	.01	1			.01

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ROCK TYPES and ALTERATION	Foliation angle and linearity	GRAPHIC LOG Rt type & Alt. Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS			Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS						
							Leach Cap	Leachable Ox.	Lim. Zone				Sample Number	% Cu	% MoS2	% Zn	% Ag	ppb Au	Estimated Cu Grade
							Supergene	Remarks	oz/ton										
			50°	1" x 1"	qtz. (carb)	<.5				100	30	52691	.01	.003	.01	2			
		480	50°	1/2" x 1"	qtz. (carb)	<.5			477	100	30	52691	.01	.003	.01	2			
			0°	1/4" x 1"	qtz. (carb)	<.5	minor parts of the unit are interfingered by a yellow, soft mineral (gypsum?)		97	487	27	52692	.01	.003	.02	1			
		490																	
			30°	2" x 1"	qtz. (carb)	<.5			99	497	40	52693	.01	.002	.01	1			
			70°	1/4" x 1"	qtz. (carb)	<.5													
		500																	
GREY-GREEN SILTSTONE META-SEDIMENTARY UNIT: 499' to 502'			10°	1/8" x 1"	qtz. (carb)	<.5			100	507	43	52694	.01	.002	.01	2		.01	
Similar to the previously described Green-Green Siltstone units, with the only exception being this particular section is full of soft yellow "stringers" (gypsum?). There is a gradational contact between this unit and the Banded Metasedimentary unit.	30° wk		30°	1/8" x 1"	qtz. (carb)	<.5													
		510																	
			0°	1/5" x 1"	qtz. (carb)	<.5	zones neighboring fault are highly fractured		94	517	17	52695	.02	.002	.01	1		.01	
			0°	1/4" x 1"	qtz. (carb)	<.5													
		520																	
BANDED META-SEDIMENTARY UNIT: 507' to 511'			30°-50°	1/4" x 1"	qtz. (carb)	<.5	fault gouge from 526' to 530'		95	527	10	52696	.02	.002	.01	2		.01	
This unit resembles the other Banded Metasedimentary units but this particular unit is more brecciated.	0° to 60° str					<.5	qtz. and veins are cross-cutting one another												
		530																	

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rt. type & Alt. Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS						
							Leach Cap	Leachable Ox.	Lm. Zone	Supergene				Sample Number	%	%	%	g/T oz/ton	ppb	Estimated Cu Grade
							Remarks								Cu	MoS2	Zn	Ag	Au	
		540	90°	1/16" v.	gtz. (carb)	2.5	- bedding is strong except in articulated areas				537	70	3	52657	.10	.002	.01	2		
		550	65° 10°	1/4" v. 1/8" v.	gtz. (carb) ftz. (carb)	2.5					542	90	20	52698	.01	.003	.01	2		
							EOH. 551' Queb Perm				551									



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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG R.Q.D. type & depth Footage	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS								
							Leach Cap	Leachable Ox.	Llm. Zone	Supergene				Sample Number	% Cu	% MoS2	% Zn	g/t Ag	ppb Au	Estimated Cr Grade		
							Remarks								%	%	%	g/t	ppb			
														Cu	MoS2	Zn	Ag	Au				
158'-186' Green Metasediments (calcareous siltstone) a fine grained to pervasive carb. siltstone vein siltstone. This zone appears to be heavily altered by chlorite. Fractures display some sort of micaceous sheen suggesting the presence of chlorite. The carb vein siltstone is so intense in some areas that the rock has a brecciated appearance, although the core is relatively competent. The upper contact to the granite is undistinguishable and probably records towards the lower part of the fault.	ND		10-30 30 90 10-30	1/2" x 30 1/4" 3/8" 1"	carb. siltstone altered argonite? ← glu-carb. lim zone w carb siltstone	<.5						95	43	52704	.01	.001	.07	1			.01	
	ND		10-30	3/8"	lim zone w carb siltstone + intense lim zone possible arg? but may be too soft!	<.5						55	3	52705	.01	.001	.06	1			.01	
There are also several limonite zones separated by "clean" zones within this unit. Py is observed in these zones.	ND		10-30 ?	1/8" 5/8"	carb siltstone brk rx → lim.	<.5						90	30	52706	.01	.005	.02	7			.01	
186'-188' Calcareous gray siltstone			10-30	3"	± carb siltstone	<.5						187										
188'-231' Calcareous Green Siltstone This unit is identical in appearance to the green siltstone unit. Carb siltstone is evident but carb has been dissolved leaving fractures only 1/2" deep. The core is hard (5-6) as opposed to the soft siltstone component. Fractures are conchoidal. Arenaceous sandstone clasts 1/2" in dia are observed from 125'-133'	ND		10-30	10"	± carb siltstone	<.5						100	93	52707	.01	.004	.01	1			.01	
	ND		10-30 ?	10" 3"	± carb siltstone brk rx → lim	<.5						70	20	52708	.02	.004	<.01	1			.01	
	ND		10-30	10"	brk rx → lim ± carb siltstone	<.5						35	3	52709	.01	.003	<.01	1			.01	



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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS								
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	g/t or/ton	ppb	Estimated Cu Grade		
							Remarks								Cu	MoS2	Zn	Ag	Au			
Green Chert Cont'd	ND		10-90	6' 4'	brk FX → Lim I carb struk I carb struk	<.5						70	33	5000	.01	.002	<.01	1			.01	
231-231' → Leucocratic Intrusive Light grey colored rock. Extensively cherted Qtz veins scattered 5-8 inches apart yellowish brown. Some small silty veins dist. by bluish, ser. silty veins	30-40 331- str		?	1'	foliated	<.5						35	37	5000	.03	.002	.01	5			.01	
233'-257' interbedded grey siliceous siltstone/grey siltstone / dark grey argillite	ND		10-90	11"	brk FX	<.5						30	30	5000	.05	.006	.01	5			.01	
grey siliceous siltstone → v. fine grained silty matrix crosscut by numerous qtz-veins veins, 2-4 in some 3/4 veins. Gypsum occurring in filled bandings. Fine grained appearance of a felsic chert	ND		70	7"	qz-veins	<.5						40	0	5000	.01	.001	.01	2			.01	
grey siltstone → some no silty bit of siliceous siltstone. Gypsum still present (py) reduced.	ND		?	7"	brk FX	<.5						257	0	5000 from 250'-257'	.01	.001	.01	2			.01	
			TAICONE FROM 257-271										0									
dark grey mudstone/siltstone → moderately bedded becoming increasingly thin bedded dist py filling present & pyroclastic	?			No	CORE RECOVERED							257	0	5000 NO SAMPLE								?
												257	0	5000 from 271'-280'	.01	.002	.01	2				.01

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	g/T	ppb	Estimated Cu Grade	
							Remarks								Cu	MoS2	Zn	Ag			Au
Interbedded grey siliceous siltstone / grey siltstone / dark grey argillite / siltstone cont'd	MD		?	10'	brk rx / ss	<.5						50	0	52716	.04	.001	.02	4			.01
	50-70			2'	brk rx	<.5						20	3	52717	.01	.002	.01	2			.01
	50-70		10	3'	gla (vuggy)	<.5						85	13	52718	.01	.001	<.01	1			.01
	50-70		50-70	1 1/2 - 2 1/2	crinoidal grey bands.	<.5						327									
	40-70		?	3'	brk rx / ss	<.5						80	0	52719	.01	.001	.01	2			.01
	20-70		?	10'	gla - carb	<.5						80	13	52720	.01	.001	.01	1			.01
	20-70		?	10'	brk rx	<.5						327									
	20-70		?	10'	gla - carb	<.5						80	17	52721	.01	.002	.01	2			.01

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ROCK TYPES and ALTERATION	Foliation angle and locosity	GRAPHIC LOG Rat Type & Alt Footage Success	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	g/T	ppb	Estimated Cu Grade	
							Remarks								Cu	MoS2	Zn	Ag			Au
Interbedded grey siltstone/dark grey argillite/siltstone cont'd	ND-40-50° wfr	350	?	7'	gg → ↑ false shear	<.5					50	3	52722	.01	.001	.01	1			.01	
	10-70° mid-STR	360	90	4 1/2'	gls-zyp-gyl	<.5					70	3	52723	.01	.001	.01	1			.01	
<u>357'-438'</u>		360	?	3'	brktx/sg		<u>357'-438' MASS FRUIT</u>														
Dark grey-black siltstone/argillite. This unit is extremely broken up with only a few localized areas having competent core. Bedding angles are prominent for the most part. Associated unconformity by sloughing remains are common as well. The presence of pyrite and arsenic, particularly at fault is thought to completely encase this zone.	10-70° mid-STR	370	?	4'	brktx/sg	<.5					70	0	52724	.01	.001	<.01	2			.01	
	ND	380	?	9'	gg	<.5					40	0	52725	.01	.002	.01	2			.01	
	10-70° mid	390	15-70	3'	sg	<.5					45	0	52726	.01	.001	<.01	1			.01	
	ND	400	05-70	3'	gg/brk tx	<.5					70	10	52727	.01	.001	<.01	2			.01	

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rck Type & Alt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS								
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	% Cu	% MoS2	% Zn	% Ag	ppb Au	Estimated Cu Grade		
							Remarks								g/t							
Dark grey-black siltstone/argillite cont'd	ND	410		7'	ss	<.5							45	3	52728	.01	.001	<.01	2			.01
	ND	420		3'	brk X	<.5							80	0	52729	.01	.001	<.01	2			.01
	ND	430		15'	ss	<.5							70	7	52730	.01	.002	<.01	1			.01
	ND	440	40-50	3 1/2'	ss → argillite	<.5	481'-495'						80	7	52731	.01	.002	.02	1			.01
430-440' → greenish grey siltstone fossiliferous	ND	450		1/2-4"x4"	gr-coar stnck	<.5	brecciated semi-congl core of gr-coar vein stnck zone is alt darker due to the higher gneiss content						100	40	52732	.01	.001	.01	1			.01
440-450' → greenish grey siltstone fossiliferous	ND	460		3'	ss → argillite	<.5							100	43	52733	.01	.001	.01	<1			.01
450-460' → greenish grey siltstone fossiliferous	ND	470		6'	ss → argillite	<.5							100									
460-470' → greenish grey siltstone fossiliferous	ND	480		3'	ss → argillite	<.5							100									
470-480' → greenish grey siltstone fossiliferous	ND	490		3'	ss → argillite	<.5							100									
480-490' → greenish grey siltstone fossiliferous	ND	500		3'	ss → argillite	<.5							100									
490-500' → greenish grey siltstone fossiliferous	ND	510		3'	ss → argillite	<.5							100									
500-510' → greenish grey siltstone fossiliferous	ND	520		3'	ss → argillite	<.5							100									
510-520' → greenish grey siltstone fossiliferous	ND	530		3'	ss → argillite	<.5							100									
520-530' → greenish grey siltstone fossiliferous	ND	540		3'	ss → argillite	<.5							100									
530-540' → greenish grey siltstone fossiliferous	ND	550		3'	ss → argillite	<.5							100									
540-550' → greenish grey siltstone fossiliferous	ND	560		3'	ss → argillite	<.5							100									
550-560' → greenish grey siltstone fossiliferous	ND	570		3'	ss → argillite	<.5							100									
560-570' → greenish grey siltstone fossiliferous	ND	580		3'	ss → argillite	<.5							100									
570-580' → greenish grey siltstone fossiliferous	ND	590		3'	ss → argillite	<.5							100									
580-590' → greenish grey siltstone fossiliferous	ND	600		3'	ss → argillite	<.5							100									
590-600' → greenish grey siltstone fossiliferous	ND	610		3'	ss → argillite	<.5							100									
600-610' → greenish grey siltstone fossiliferous	ND	620		3'	ss → argillite	<.5							100									
610-620' → greenish grey siltstone fossiliferous	ND	630		3'	ss → argillite	<.5							100									
620-630' → greenish grey siltstone fossiliferous	ND	640		3'	ss → argillite	<.5							100									
630-640' → greenish grey siltstone fossiliferous	ND	650		3'	ss → argillite	<.5							100									
640-650' → greenish grey siltstone fossiliferous	ND	660		3'	ss → argillite	<.5							100									
650-660' → greenish grey siltstone fossiliferous	ND	670		3'	ss → argillite	<.5							100									
660-670' → greenish grey siltstone fossiliferous	ND	680		3'	ss → argillite	<.5							100									
670-680' → greenish grey siltstone fossiliferous	ND	690		3'	ss → argillite	<.5							100									
680-690' → greenish grey siltstone fossiliferous	ND	700		3'	ss → argillite	<.5							100									
690-700' → greenish grey siltstone fossiliferous	ND	710		3'	ss → argillite	<.5							100									
700-710' → greenish grey siltstone fossiliferous	ND	720		3'	ss → argillite	<.5							100									
710-720' → greenish grey siltstone fossiliferous	ND	730		3'	ss → argillite	<.5							100									
720-730' → greenish grey siltstone fossiliferous	ND	740		3'	ss → argillite	<.5							100									
730-740' → greenish grey siltstone fossiliferous	ND	750		3'	ss → argillite	<.5							100									
740-750' → greenish grey siltstone fossiliferous	ND	760		3'	ss → argillite	<.5							100									
750-760' → greenish grey siltstone fossiliferous	ND	770		3'	ss → argillite	<.5							100									
760-770' → greenish grey siltstone fossiliferous	ND	780		3'	ss → argillite	<.5							100									
770-780' → greenish grey siltstone fossiliferous	ND	790		3'	ss → argillite	<.5							100									
780-790' → greenish grey siltstone fossiliferous	ND	800		3'	ss → argillite	<.5							100									
790-800' → greenish grey siltstone fossiliferous	ND	810		3'	ss → argillite	<.5							100									
800-810' → greenish grey siltstone fossiliferous	ND	820		3'	ss → argillite	<.5							100									
810-820' → greenish grey siltstone fossiliferous	ND	830		3'	ss → argillite	<.5							100									
820-830' → greenish grey siltstone fossiliferous	ND	840		3'	ss → argillite	<.5							100									
830-840' → greenish grey siltstone fossiliferous	ND	850		3'	ss → argillite	<.5							100									
840-850' → greenish grey siltstone fossiliferous	ND	860		3'	ss → argillite	<.5							100									
850-860' → greenish grey siltstone fossiliferous	ND	870		3'	ss → argillite	<.5							100									
860-870' → greenish grey siltstone fossiliferous	ND	880		3'	ss → argillite	<.5							100									
870-880' → greenish grey siltstone fossiliferous	ND	890		3'	ss → argillite	<.5							100									
880-890' → greenish grey siltstone fossiliferous	ND	900		3'	ss → argillite	<.5							100									
890-900' → greenish grey siltstone fossiliferous	ND	910		3'	ss → argillite	<.5							100									
900-910' → greenish grey siltstone fossiliferous	ND	920		3'	ss → argillite	<.5							100									
910-920' → greenish grey siltstone fossiliferous	ND	930		3'	ss → argillite	<.5							100									
920-930' → greenish grey siltstone fossiliferous	ND	940		3'	ss → argillite	<.5							100									
930-940' → greenish grey siltstone fossiliferous	ND	950		3'	ss → argillite	<.5							100									
940-950' → greenish grey siltstone fossiliferous	ND	960		3'	ss → argillite	<.5							100									
950-960' → greenish grey siltstone fossiliferous	ND	970		3'	ss → argillite	<.5							100									
960-970' → greenish grey siltstone fossiliferous	ND	980		3'	ss → argillite	<.5							100									
970-980' → greenish grey siltstone fossiliferous	ND	990		3'	ss → argillite	<.5							100									
980-990' → greenish grey siltstone fossiliferous	ND	1000		3'	ss → argillite	<.5							100									

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-3 Page 7 of 8

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rt type of Alteration Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS			Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS																																													
							Leach Cap	Leachable Ox.	Lim. Zone				Sample Number	%	%	%	g/T	ppb	Estimated Cu Grade																																							
							Supergene	Remarks	Cu					MoS2	Zn	Ag	Au																																									
A very noticeable fault zone occurs 170' in the sequence. All fractures are coated by some type of clay or siliceous material. The zone is very friable and probably is in a transition before returning to gneiss.	ND	470	50'	1"	32	4.5	461' →			100	23	52734	<.01	.001	<.01	<.01		.01																																								
							467'			50									30	52735	2.01	.001	<.01	1		.01																																
							477'			60																	0	52736	<.01	.001	<.01	<.01		.01																								
							481'	479'-513' →		65																									0	52737	<.01	.001	<.01	<.01		.01																
							487'	FAULT increase gg & only gte grains left intact		80																																	20	52738	<.01	.002	<.01	<.01		.01								
							522'			80																																									17	52739	.01	.002	<.01	<.01		.01
							527'			100																																																
527'																																																										

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-3 Page 8 of 8

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rt type & Alt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS						
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	% Cu	% MoS2	% Zn	g/T Ag	ppb Au	Estimated Cu Grade
							Remarks													
	ND	520				<.5				90		17	52740	.01	.002	<.01	1			.01
	ND	549				<.5			100			13	52741	.01	.001	<.01	<1			.01
	ND	550				<.5			100			30	52742	<.01	.002	<.01	1			.01
	ND	557				<.5			100			-	52743	<.01	.001	<.01	<1			.01
					557' EOH															
					557' EOH															



## GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-4 Page 2 of 8

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rt type & Alt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS								
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	g/T	ppb	Estimated Cr Grade		
															Cu	MoS2	Zn	Ag	Au			
							Remarks															
ALTERED EPIDOTE-CHLORITE MINE PHASE QUARTZ DIORITE UNIT: 132' to 200'			5'	1/16" x 1'	qtz																	
This unit is similar to the other Tonalite unit (first described). The	35' w/k	150	0°	1/8" x 1'	qtz	<.5	- from 140' to 144' is an unaltered interval of Tonalite with some pyritization (seen for the first time in this hole)				147	99	33	52205	.02	.002	<.01	1			.01	
Contact between this unit and the Green Siltstone unit is sharp.	ND	160	20°	1/8" x 1'	qtz	0						97	27	52206	.01	.001	<.01	1			.01	
	ND	170	30°	1/8" x 5'	qtz	0						157										
	ND	180	50°	1/16" x 1'	qtz	0	- from 150' to 200' the unit appears increasingly oxidized				167	99	23	52207	.01	.006	<.01	1			.01	
	ND	190	75°	1/16" x 1'	qtz	0						65	0	52208	.01	.001	<.01	<1			.01	
	ND	200	90°	1/4" x 1'	qtz-carb	0	- from 150' to 200' the unit is heavily oxidized and the altered unit is orange-brown throughout. The unit remains carbonaceous though.				187	85	10	52209	<.01	.002	<.01	1			.01	
	ND	200	mottled	1/8"	qtz-carb	0																
	ND	200	30°	1/2" x 1'	qtz-carb	0	- limonite and oxidation has severely weakened the unit thereby generating lots of fragmented core.				197	90	0	52210	.01	.002	.01	1			.01	



GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-4 Page 3 of 8

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rc type & Alt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS			Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone				Sample Number	%	%	%	g/T	ppb	Estimated Cu Grade	
							Supergene	Remarks	Cu					MoS2	Zn	Ag	Au			
BANDED METASEDIMENTARY UNIT: 201' to 236'	0° to 50° str		scw	1/2" - 1/4"	gtz-carb	0				94		20	52811	.01	.001	.01	1			.01
There are alternating sections from this unit and the altered Epidote-Chlorite Mine Phase Quartz Diorite (altered) transition unit. The banded metametamorphic unit is carbonaceous. The contact between this unit and the altered transition unit is sharp.			40° 50°	1/2" x 1" 1/3"	gtz-carb gtz-carb	0				85		3	52812	.01	.001	.01	1			.01
			60°	1/2" x 1"	gtz-carb	0				30		3	52813	.01	.002	.01	2			.01
TRANSITION ZONE: 236' to 241'	ND		5°	1/2" x 1"	gtz-carb	<.5				60		7	52814	.01	.002	.01	1			.01
Border Phase Diorite - The contact between this zone and the previous unit is sharp.	ND		scattered	1/2" x 1"	gtz-carb	0				20		7	52815	.01	.001	.01	1			.01
DIORITE/GABBRO? (Ultrabasic?) 241' to 250'	ND		20° 30°	1/2" x 1" 1/2" x 1"	gtz-carb gtz-carb	0				30		13	52816	.01	.002	.01	1			.01

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-4 Page 4 of 8

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Scale type & Alt. Footage	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	3/T oz/ton	ppb	Estimated Cu Grade	
							Remarks								Cu	MoS2	Zn	Ag	Au		
This unit and the Transition Zone is gradational. This unit is calcareous also.	ND	270	80°	1/2"	glz. carb qtz. carb	<.5						80	3	52817	.01	.002	.08	1			.01
<b>BANDED METASEDIMENTARY UNITS 276' to 284'</b> Less banding in this unit as compared with the other banded metasedimentary units. This particular unit is an argillite and is very fragile (fissile). The unit is nearly all black and is very, very carbonaceous and graphitic rich, even more so than the other banded metasedimentary units.	ND	280	85°	1"	glz. carb	<.5						55	0	52818	.01	.004	.06	1			.01
	ND	290	70°	3/8" to 1/2"	glz. carb	0						85	50	52819	.01	.002	.02	1			.01
<b>TRANSITION ZONE: 284' to 294'</b> Another zone separating two argillaceous units. This latter, pale green unit has undergone extensive alteration and is heavily chloritized. Again there is interfingering of argillaceous layers throughout the zone.	ND	290	25°	1/2"	glz. carb	0						80	17	52820	.01	.002	.01	1			.01
<b>GRANITE MOUNTAIN PHASE QUARTZ BIORITE: 294' to 330'</b> Segregated qtz gives the unit a "lumpy" or pitted external appearance. Light green bleas of chlorite throughout the unit. The unit generally breaks along talc-chloritized shaws. This unit is fairly carbonaceous.	ND	310	80°	1/2"	glz. carb	0						27	47	52821	<.01	.001	<.01	<1			.01
	ND	320	No evident veins			0						90	43	52822	<.01	.001	<.01	<1			.01

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-4 Page 5 of 8

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rt type & Amt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS									
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	% Cu	% MoS2	% Zn	g/T Ag	ppb Au	Estimated Cr Grade			
							Remarks								%	%	%	g/T	ppb				
	ND	337m	No evident veins			0						327	93	20	52823	<.01	.001	<.01	<1			.01	
LEUCOCRATIC PHASE: 330' to 367'	ND	340m	No evident veins			0	- no py. visible throughout the unit. - this leucocratic unit is not very calcareous - tiny clear disks of muscovite throughout the unit.						327	97	43	52824	.01	.002	<.01	<1			.01
The contact between this unit and the Granite Mountain unit is sharp. Overall, the lithology for this unit can be described as an intercrystalline Qtz porphyry. There is a very minor component of chlorite throughout the unit. This unit is not carbonaceous.	ND	350m	50'	5"	Qtz	0						247	99	33	52825	<.01	.002	<.01	<1			.01	
	ND	367m	No evident veins			0						357	95	17	52826	<.01	.002	<.01	<1			.01	
GRANITE MOUNTAIN PHASE QUARTZ LIORITE: 367' to 380'	ND	370m	20'	4"	Qtz ch	<.5	- gradational contact between the leucocratic phase and the Granite Mountain phase unit. - unit breaks along chloritized talcose shales - see below						257	75	13	52827	<.01	.001	.01	<1			.01
darker green than 367' section. The second being the Qtz unit as well segregated all the crystals are visible. Although this unit is a chlorite + Qtz porphyry. This unit is slightly carbonaceous.	ND	380m	No evident veins			<.5	- minor disc py in 380' unit						277	92	30	52828	<.01	.001	<.01	1			.01

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS								
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	% Cu	% MoS2	% Zn	g/T Ag	ppb Au	Enhanced Cu Grade		
							Remarks								%	%	%	g/T	ppb			
														oz/ton	Ag	Au						
	ND	390	no evident veins			<.5						70	30	52229	<.01	.001	<.01	1				
		400				<.5						85	10	52230	.01	.001	<.01	1				
		410				<.5						90	20	52231	<.01	.002	<.01	<1				
		420				<.5						90	10	52232	<.01	.001	<.01	<1				
		430				<.5						95	20	52233	.01	.001	<.01	1				
		440				<.5						90	20	52234	<.01	.001	<.01	<1				

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-4 Page 7 of 8

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Est. type & Alt. Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Ore Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	g/t	ppb	Estimated Cu Grade	
															Cu	MoS2	Zn	Ag			Au
							Remarks														
	ND	450	No evident veins			<.5						96	30	52835	.01	.001	<.01	1			.01
		460				<.5						93	13	52836	.01	.001	<.01	1			.01
		470				<.5						95	30	52837	<.01	.001	<.01	1			.01
		480				<.5						97	30	52838	.01	.001	<.01	1			.01
		490				<.5						97	7	52839	.01	.001	<.01	1			.01
		500				<.5						99	37	52840	<.01	.001	<.01	1			.01

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG For type & dip Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Ore Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	g/T oz/ton	ppb	Estimated Cu Grade	
							Remarks								Cu	MoS2	Zn	Ag	Au		
	NE	510	No evident veins			< 5	- from 500' to 520' are alternating layers of segregated gtz and gtz porphyry but both layers will be in the Granite Mountain unit.				507	93	20	52841	<.01	.001	<.01	<1			.01
		520				< 5				517	80	7	52842	<.01	.001	<.01	<1			.01	
		530				< 5				527	94	3	52843	<.01	.001	<.01	<1			.01	
		540				< 5	- unit breaks along intense hematite and chloritized shears. the increased content of hematite results in an almost light purplish tint to some sections of the unit.				537	90	7	52844	<.01	.001	<.01	1			.01
		550				< 5				547	97	23	52845	<.01	.001	<.01	1			.01	
						< 5				557	98	27	52846	<.01	.001	<.01	<1			.01	
							557' EOH														

Dick Barr

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-5 Page No. 1 of 9

LOCATION: ZE CLAIMS BEARING: - LATITUDE (N) ≈ 75.675 N ) not CORE SIZE: NR LOGGED BY: G. Grubisa/Nick Pano  
 DATE COLLARED: May 11, 1994 LENGTH: 557 LONGITUDE (E) ≈ 42.370 E ) surveyed SCALE OF LOG: 1" = 10' DATE: May 20, 1994  
 DATE COMPLETED: May 12, 1994 DIP: -90' ELEVATION: ≈ 3190 feet ) REMARKS:

ROCK TYPES and ALTERATION SYMBOLS

☒ BORDER PHASE DIORITE/GABBRO ☒ DARK SILTSTONE UNIT ☐  
 ☒ GREY-GREEN SILTSTONE UNIT ☐  
 ☒ GRANITE MIN PHASE ☐  
 ☒ QTZ DIORITE ☐

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

☐ badly broken rock alm = alteration diss = disseminated MnO2 = pyrolusite ser = sericite  
 ☐ fault gouge az = azurite ep = epidote Mo = molybdenite sph = sphalerite  
 ↑ increase bo = boritic gg = gouge mod = moderate str = strong  
 ↓ decrease br = breccia gr = garnet ND = non directional StWk = stockwork  
 ( ) minor amount carb = carbonate hcm = hematite py = pyrite tet = tetrahedrite  
 (( )) very minor amount chl = chlorite lim = limonite qtz = quartz wk = weak  
 mal = malachite znoc = zincite

ROCK TYPES and ALTERATION	Foliation angle and linearity	GRAPHIC LOG Ex type & Alt. Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS										
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	% Cu	% MoS2	% Zn	g/T Ag	ppb Au	Estimated Cu Grade				
CASING TO 81'																								
DARK METASEDIMENTARY UNITS 29' to 95'				1'	sericite breccias (mine phase etc.)	<.5					81													
A dark siltstone unit, with some slight banding, with medium grey layers. The unit is slightly calcareous. The overall matrix is fine grained.	0° to 50° mod		0° to 50° SWK	1/4" to 1"	qtz gtz	<.5					87	100	0	50751	.01	.001	.02	1						.01
											97	100	10	50752	.01	.002	.01	2						.01
MAFIC DIORITE UNIT (104' to 110')	ND		30° to 90°	1/4" to 5/16"	qtz gtz carb	<.5					107	100	17	50753	.01	.001	.03	2						.01

## GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-5 Page 2 of 9

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rt type & Amt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	g/T	ppb	Estimated Cu Grade	
															Cu	MoS2	Zn	Ag	Au		
							Remarks														
contains phenocrysts of chlorite (alteration product of hornblende). This unit has a calcareous matrix. The phenocrysts have a subhedral to euhedral and are stubby shaped.	11E	110	70°	1/4" x 1'	gtz - carb	<.5						100	23	52754	.01	.001	<.01	2			.01
			15°	1/8" x 1'	gtz - carb										117						
DIORITE UNIT: 120' to 141' This unit is a light grey and has a lighter overall color than the mafic diorite because this unit contains more plagioclase. But		130	90°	1/8" x 1'	gtz - carb	<.5						100	40	52755	.01	.001	<.01	2			.01
			80°	1/8" x 1'	gtz - carb							127									
phenocrysts of chlorite still "float" in a calcareous matrix. Laths of biotite are now distinctly visible. The contact between this unit and the mafic diorite unit is gradational.		140	70°	1/8" x 1'	gtz - carb	<.5						100	37	52756	.01	.001	<.01	1			.01
		150	20°	1" x 1'	gtz - carb	<.5						100	17	52757	.01	.001	.01	1			.01
			70°	1/8" x 1'	gtz - carb							157									
		160	20°	1/16" x 1'	gtz - carb	<.5						100	10	52758	.01	.001	<.01	1			.01
		170	70°	1/4" x 1'	gtz - carb	<.5						100	13	52759	.01	.002	<.01	1			.01



GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-5 Page 3 of 9

ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Foliation type & Alt. Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS		Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.				Sample Number	%	%	%	g/T	ppb	Estimated Cu Grade	
							Lim. Zone	Supergene					Cu	MoS2	Zn	Ag	Au		
							Remarks												
	ND		90° 80°	1/16" x 1/4"	gtz-carb gtz-carb	<.5			100 177		33	50760	.01	.002	<.01	1			.01
			5° 10°	1/16" x 1/8"	gtz-carb gtz-carb	<.5			100 187		47	52761	.01	.001	<.01	1			.01
			70°	1/16" x 1/8"	gtz-carb	<.5			95 147		17	50762	.01	.001	<.01	2			.01
			No evident veins			<.5			100 207		70	50763	.01	.001	<.01	2			.01
			No evident veins						98 217		27	50764	.01	.001	<.01	2			
			70°	1/16" x 1/8"	gtz-carb				99 227		53	50765	.01	.002	<.01	2			

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rc type at Alt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS				Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS						
							Leach Cap	Leachable Ox.	Lim. Zone	Supergene				Sample Number	%	%	%	g/T	ppb	Estimated Cu Grade
							Remarks								Cu	MoS2	Zn	Ag	Au	
	ND		70°	1 1/2"	carb	<.5					95		47	52756	.01	.001	<.01	2		.01
DIORITE / GABBRO? : 241' to 247'			No evident vein(s)			<.5					97		17	52757	.01	.001	<.01	1		.01
Similar to Diorite / Gabbro unit in Hole 94-2. Flag content has dropped considerably, making the overall color of this unit a darker grey than the overlying Diorite unit. The contact between this unit and the Diorite unit is gradational. The laths of biotite are larger in this unit than in the 94-2 unit(s). Crystal outlines and shapes are nearly indistinguishable.						<.5					95		20	52758	.01	.001	<.01	1		.01
						<.5					93		53	52759	.01	.001	<.01	1		.01
						<.5					97		37	52760	.01	.001	<.01	1		.01
						<.5					96		37	52761	.01	.001	<.01	1		.01

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS		Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap					Sample Number	%	%	%	g/T	ppb	Estimated Cu Grade	
							Leachable Ox.						Cu	MoS2	Zn	Ag			Au
							Lim. Zone												
Supergene		Remarks																	
		110	no evident veins			<.5			99		41	52772	.01	.001	<.01	1		.01	
		200				<.5			98		40	52773	.01	.001	<.01	1		.01	
		210				<.5			99		42	52774	.01	.001	<.01	1		.01	
		220				<.5			97		33	52775	.01	.001	<.01	1		.01	
		230	NO EVIDENT VEINS			<.5			100		53	52776	.01	.001	<.01	1		.01	
		240				<.5			100		57	52777	.01	.001	<.01	1		.01	

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rt Type & Alt. Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS			Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS								
							Leach Cap	Leachable Ox.	Lim. Zone				Sample Number	%	%	%	3/T on/ton	ppb	Estimated Cu Grade		
							Supergene	Remarks	Cu					MoS2	Zn	Ag	Au				
	ND		No evident veins			<.5				100		73	52778	.01	.001						.21
		360				<.5				100		63	52777	.01	.001						.01
		370				<.5				97		37	52780	.01	.001						.01
		380				<.5				94		30	52781	.01	.002						.01
MAFIC DIORITE UNIT 381-385 Similar to another described mafic diorite unit. The chlorite phenocrysts are readily visible again.	40° wk		60°	1/8" x 1/8"	qtz-carb	<.5				92		60	52782	.01	.002						.01
GREY-GREEN SILTSTONE UNITS 386 to 418 This unit appears a bit dark at the top of the unit but becomes a lighter shade of grey-green near the bottom. This unit			70°	1/2" x 1/2"	qtz-carb	<.5				90		47	52783	.01	.002	.01	2				.01
Is similar to the grey-green siltstone unit described in Hole 94-2. Both units are fairly pyritiferous with medium grained chunks of pyrite easily visible.			80°	1/4" x 1/4"	qtz-carb	<.5				90		47	52783	.01	.002	.01	2				.01

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ROCK TYPES and ALTERATION	Foliation angle and linearity	GRAPHIC LOG Rt type & Alt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS			Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS							
							Leach Cap	Leachable Ox.	Lim. Zone				Sample Number	%	%	%	3/T oz/ton	ppb	Estimated Cu Grade	
							Supergene	Remarks	Cu					MoS2	Zn	Ag	Au			
There is poor bedding in this unit. The contact between this unit and the Diorite/Gabbro unit is sharp.	40° wk	430	20° mottled	1/8" x 1/8" 1/8" x 20"	gt z-carb gt z-carb	< 5				417	99	43	52784	.01	.002	.01	1			.01
TRANSITION ZONE 418' to 422' This is a highly graphitic zone (almost coal) that is slightly argillaceous. Within this carbonaceous unit are layers and lenses of Granite Mountain Phase Quartz Diorite.	ND	430	90°	1/4" x 1/4"	gt z-carb	0				427	98	50	52785	.01	.001	<.01	1			.01
		440	No evident veins			0				431	98	40	52786	.01	.001	<.01	<1			.01
GRANITE MOUNTAIN PHASE QUARTZ DIORITE UNIT 424' The main feature of this unit is the segregated gt z which gives this unit a rough or pitted appearance. Some of the gt z is loosely cemented and can be picked away from the core. This unit generally is "egg white" color but depending on the amount of chlorite or hematite content, can appear light green or pink respectively.		450				0	- the gt z has been completely segregated in some spots leaving not much core intact or whole.			447	97	37	52787	<.01	.001	<.01	<1			.01
		460				0	- the unit breaks along chloritized hematite infillings - core is quite fragile in a few spots due to the chlorite/talc content.			457	92	27	52788	<.01	.001	<.01	1			.01
		470				0				467	95	10	52789	<.01	.001	<.01	<1			.01

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Rt type & Alt Footage Structure	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS			Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS									
							Leach Cap	Leachable Oz.	Lim. Zone				Sample Number	%	%	%	g/T	ppb	Estimated Cu Grade			
							Supergene	Remarks	Cu					MoS2	Zn	Ag	Au					
	ND		no visible veins			0						93	3	52790	<.01	.001	<.01	<1			.01	
		450				0						96	7	52791	<.01	.001	<.01	<1			.01	
		470				0						96	30	52792	.01	.001	<.01	1			.01	
		500				0						99	7	52793	<.01	.001	<.01	<1			.01	
		510				0						97	0	52794	<.01	.001	<.01	<1			.01	
		530				0						95	3	52795	<.01	<.001	<.01	<1			.01	
		530				0																

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ROCK TYPES and ALTERATION	Foliation angle and intensity	GRAPHIC LOG Strat. type & Alt. Footage	Structure (veins) < to core axis	Width of Structure (veins)	Mineralization	Est. % Py	BOTTOM DEPTHS			Footage Blocks	Estimated Ore Recovery	R.Q.D.	ASSAY RESULTS						
							Leach Cap	Leachable Ox.	Lim. Zone				Sample Number	% Cu	% MoS <sub>2</sub>	% Zn	g/T Ag	ppb Au	Estimated Cu Grade
							Supergene	Remarks						%	%	%	g/T	ppb	
	NE	540	35 veins			0			537	96	10	52796	.01	.001	<.01	<1			.01
		550	A A			0			544	98	13	52797	.01	.001	<.01	<1			.01
		557	A A			0			557	90	10	52798	.01	.001	<.01	<1			.01
					557' EOH Disc Pgm														