## 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

A SEXELONE BOO PROGRAM T MEMPR

Authors: G. E. Barker

G. G. Grubisa

Submitted: February 1995

24,024

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## TABLE OF CONTENTS

1. INTRODUCTION	1
2. MINERAL CLAIMS	1
3. TOPOGRAPHY AND GEOLOGY	2
4. DRILL PROGRAM	
4.1 Objective	
4.2 Results       4.3 Interpretation	
4.4 Assay Procedures	
5. STATEMENT OF EXPENDITURES	1
5. STATEMENT OF EATERDITORES	•
6. CONCLUSION	5
LIST OF FIGURES	
Figure 1. Location and Claim Map	
APPENDICES	
APPENDIX A. Statement of Qualifications - G. E. Barker Statement of Qualifications - G. G. Grubisa Statement of Qualifications - D. Poon	
APPENDIX B. Diamond Drill Hole Logs	

#### 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:

MINERAL CLAIM	TENURE NO.	NO. OF UNITS	DATE OF RECORD
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
<b>ZE</b> 10	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 HNO<sub>3</sub> 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 H<sub>2</sub>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 furning 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.)

opo 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, MoS2, 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. 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

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G. E. Barker, P.Geo.

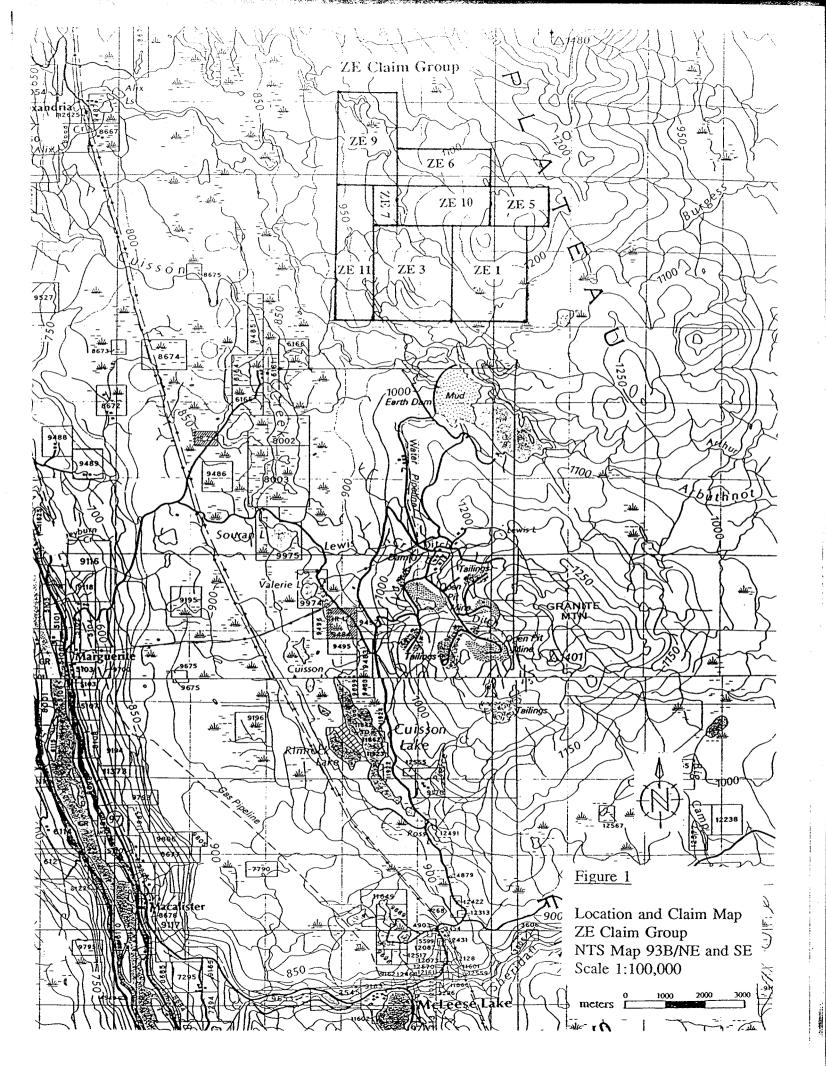
Senior Geologist

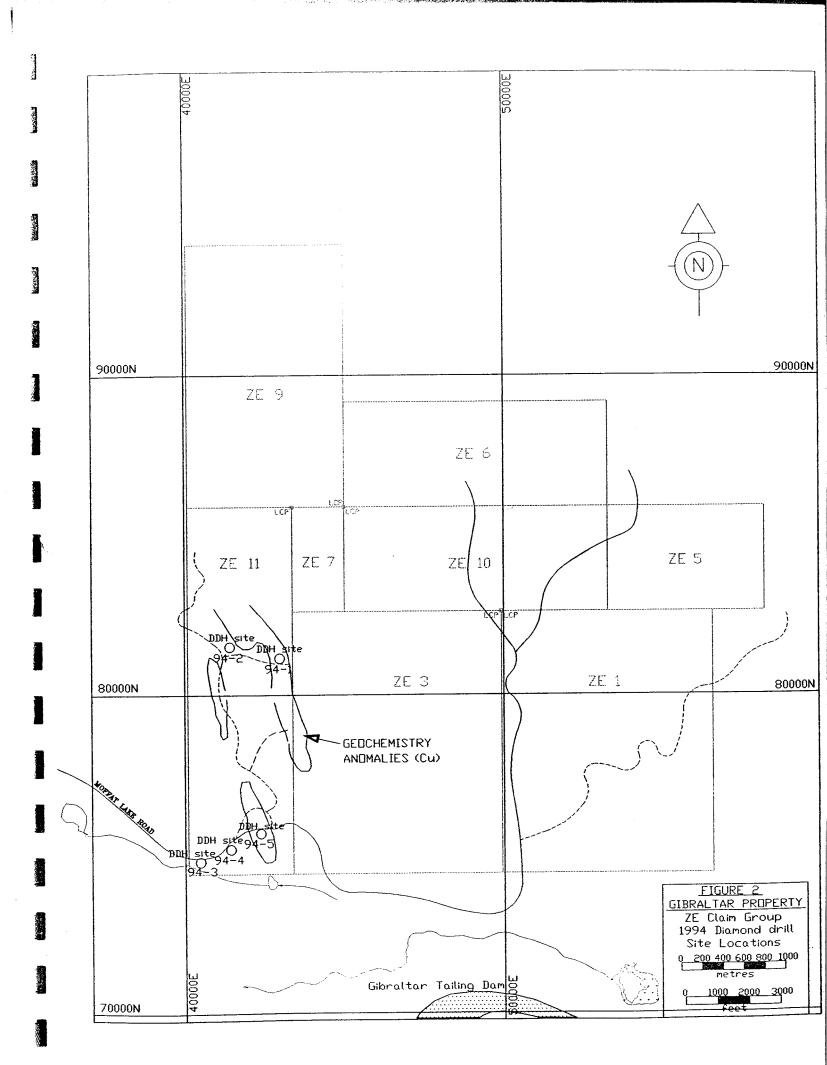
**GIBRALTAR MINES LIMITED** 

G. G. Grubisa

Mine Geologist

**GIBRALTAR MINES LIMITED** 





## 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.

G. E. BARKER

George E. Barker, P.Geo.

## 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.

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## 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.

Dick Poon, B.Sc.

# APPENDIX B. Diamond Drill Hole Logs

Hole No. 94-1 Page No. 1' of S GIBRALTAR MINES LIMITED DIAMOND DRILL LOG LOGGED BY\_ CLAIMS 81.150 N 7 chain mi CORE SIZE LOCATION . LATITUDE (N) BEARING 42,980E) compress May 4. SCALE OF LOG 1" = /0'. 1994 55.7 DATE COLLARED LONGITUDE (E) LENGTH Topo map REMARKS pritiferous arophitic araillite througt hole. 1994 - 90° 3320 May 6 ELEVATION DATE COMPLETED DIP ROCK TYPES and ALTERATION SYMBOLS MISCELLANEOUS SYMBOLS and ABBREVIATIONS MnO2 = pyrolusite alto w alteration PYRITIFEROUS badly broken rock sph = sphalerite GRAPHITIC ARGILLITE str = strong bo = bomite mod = moderate gg = gouge fault gouge brx = broken rock ND = non directional StWk = stockwork bx = breccia pied = piedmontite tet = tetrahedrite = gypsum increase carb = carbonate py = pyrite decrease cc = chalcociae qtz = quartz chl = chlorite cp = chalcopyrise mal = malachite sanc = sancerite BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cup -LOG ppm Structure Width Est. Footage Leachable Ox. Core R,Q.D. Ca Ca Grade (veins) % Mineralization Sample Blocks ROCK TYPES and ALTERATION 135 angle and Lim. Zooc < to core Structure Py Number Supergene (veins) Cu MoS2 Zn Ag Remarks CASING TO 120' Mine these Tombits, Argillite, t metassicinents? (135'-557') brkrx-glosial bulders Pyritiferous graphitic orgillite. Beldin: 93 124-135 -> liminite stained, 52601 1121 is well defined in most areas. Magnety of 20 93-6x-> lim. .01 greenish metesed-wents, v. soft hedding angles are in the 10-70' range. Numerous. 2.3 hardness), can scratch & .01 .002 .01 Faults are intersected which are characterized . brkix > lim fingernail, Possible foult. from 124-129', him present by lightly graphitic garne and graphitic brkix > him in 39. 90 shekansoles. QTz - carb tipyl veins invadite 79 25 156 the core throat the hole. There are also zones -0 52602 01 ND-10 135'- black argillite w 137 of high density attracted relains. The overall isolated pyrite reinlets, grabrkrx etz-carb uns. .003 .02 18-12×7 care veining, diss py in XQD it generally law Economic mineralization hikrx . Atz-carb un. isolated areas as well. is spicat Finely 80 Jiss. Py. 52603 68 4.5 27 20 130 10 WF-150 atz-cork 10. 002 .01

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG Hole No ... BOTTOM DEPTHS ASSÄY RESULTS GRAPHIC Leach Cap . LOG Structure Width Est. Foliation angle and intensity (veins) Leachable Ox. % RQD. Mineralization i ppb Blocks ROCK TYPES and ALTERATION Sample Lim. Zong < to core Structure Py Number axis (veins) Supergeno MoS2 Zn Ag Remarks diss. py thougut otz-carb NO 52604 4.5 20 166 \$50 \$ 20 folded at 2-corn uns in disspy. .01 157 30-50 .002 .02 pekex 97 brKrx 52605 69 4.5 184 30 10. gtz-co-b-(py) gtz-co-b 30-70 .003 .01 .02 bokex 85 14." ofz-caro-py 52606 34 222 1.5 ND 177 3 3,2-6,16-34 10. .003 .02 .01 Pr CN P HON 75 4.5 etz-carb-py 38 ND 52607 205 187 .01 .004 425×6 gla-Carb 85 195-197' → zone of intense high deposits by verniets 15,4 80 60-70 ey windets 27 235 .5 .01 13" stz-carb .003 .01 80 x 15 12-0xch -(2x) 98 60-10 4.5 75 187 52609 34 16 giz carb .003

Hole No. 94-1 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Structure Width Est. 0/0 rpm of Leachable Ox. (veins) % Py Core Foliation angle and intensity of. R.Q.D. Mineralization ROCK TYPES and ALTERATION Blocks Sample Estiman Cu Grade Lim. Zono < to core Structure Number axis (veins) Supergene Cu MoS2 Zn Remarks Pak LX Pak LX diss py throut 50-70 95 4.5 74 26 52610 270 01 mod 9 2-corp- 2y) 16 x 25 60-70 217 .01 .003 .03 care Ewell defined bedding 100 ส์นาวเก๋ กรโบชรั 60-70 14-515 4.5 73 52611 . 73 26 287 .01 mod-227 str oter carb-(py) network 10. .003 .03 120 1171 50-10 Share 4.5 70 25 201 60 .01 .01 .003 .02 100 70 26 246 1 52513 4.5 912-6014 90 01 Freshorty .003 10. .02 sizecalo. Swell defined bedding. 60-80 12-12-6 8.86 45 501.4 70x6 75 282 28 .01 好" 212-ca, b hekex .003 .03 10, etz-cere Prontosi 10 . 92 well defined bearing. 50-10 57 6365. 510 4.5 fighter time (mise out ?) 70 31 193 80 1" .01 1,5 ×3 \$12-00-6 02 003

Hole No. 94-1 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC LOG Leach Cap . Structure Width Est. Leachable Ox. Foliation angle and intentity (veins) of R.Q.D. Mineralization' % ppb ROCK TYPES and ALTERATION Blocks Sample Lim. Zong < to core Structure Py Number (veins) Supergene MoS2 Remarks Py-(carb) 16×5 Diss. py thevart 272- 236.5 → high density by veining Kir5 some parallel to bedding structure 50-90 52616 23 170 str 3' bektx. well defined besting. 01 377 Kx7 .002 .02 10. Vix 10 282.5'- 287' → 99; approx. 35' missing sold (missed stray) 65 55-60 35 39 bx 17 | 52617. 72 21 str 1189 4.5 10 brKtX .01 .002 .02 70-80 8 brkrx. 100 42-02.50 mod Kx3 70 28 290 525/8 4.5 10 01 vvggy starcato 40-50 10 .003 .03 bok ox/gg w brecoisted feature. 75 70-50 entired benitive lians 4.5 52519 68 27 203 etz-carb noa 1" 0 5.4×5 cert-litz) .01 ,003 .02 gg - W slevensides 310-337' > Possible Full 90 - characterized by a more continues out ND 53520 content. 4.5 30 159 67 - stickensistic evident on breccipted gametingstations core 612-216 4. dies by win .01 005 - Might broken zone. atz-carb-(24) X: -4 x 5 -bottons not differentially.
- bootton contential of districts. 9. (4K1X/35 4.5 din 66 52 225 .01 75-35 2. 18 cars -(3:2) .02 005

Mar.1992

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG Hole No .. BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Width Structure Est. Stron PPA Leachable Ox. (veins) Core % R.Q.D. ppb Mineralization ' ROCK TYPES and ALTERATION Blocks Sample angle and Lim. Zone < to core Cs Grade Structure Py Number axis (vcins) Supergene Ag MoS2 Zn Remarks Possible fit conta v. Fine diss py throught bikrx/gg) 80 ND 4.5 246 68 30 52622 .03 337 ofz-carb. 10. .003 .02 343'- 373.25' PIKLX folded agen. Hercarety 100 30-45 10-30 4.5 50623. 64 26 249 .01 347 4, 42 712. Cz20 folded stance win .01 .003 .02 -yein is assistently affect in numerous locations very small scale strike-stip 100 57-50 it care. Bults occur on or parallel to the Buly 43 71 52624 25 259 horizontal besides places, officets every from 18 to 4 of net inevented. 4.5 maa 3" follow area 1, 3 carb .003 .03 k, +2 01 distant. 95 75-33 365 - 418' 4.5 62625 70 31 261 - very nationally increase in we'n Apiz-care vaining 357 35" 2/2- 35.00 01 30 density. Attended beining is more provincent 1. 1×30 targiet .003 .03 01 stervioled, folded + filted attacks. than previously. Most reliance govern K-1-15 parallel or some parallel to believe sloves 100 15" 5" V 40 giz-caro. 60-50 60-30 Bone localized areas have cremulated t 52506 75 34 228 mis-Trans wining 60 tabled attreats verns that have a similar Price of the care. str k, x 12 strike-the stocker to that wentones 12-0114 10. .003 .02 TT THE 90 4,5 53 62527 35 bikrx/ga 71 252 30 1 atz-come veining. .01 17:29 15-4× 80 giz-carb .03

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*	ste	1 400	70	8, V 9	str-corp-ba		- high density, very masters . relatively thin		m2**			,01	.004	.02				
	40-50 (25d	Mark Colored A	60-30	%°°° ₹×40	3 tz-coob - (771)	4.5	2) 3nd phase a cross extrag bedding phase the phase. - localized accuracions to anoth tenes in another - their two phase 1.	<u>403</u>	00	\$ 53	52629 ·	;01	.002	.02	. !			.0
<b>+</b>	40-70 WK- mod	420	30 10-90 50 50 50-70	8" %" %"- V"x30 52" \$"- 5 x 3	Bikrx 172-corb Antilled-giz-corb veins giz-corb giz-corb-(py)	<.5		417	90	27	52630	.01	.006	.02	1			.0
	80 str - ND	A Part of the Assessment of th	60-70	1577 15-5*x50	sta-cort flyth  mottled sta-cort veins  belinx	5	425'-408.5'-> competent breconted zone of mottled giz-contractions	<del>1</del> 227	35 ——	50 	52337	.01	.002	.02	1			.0
28.5 - 451' FAULT  - characterized by semi-concelleted  brecciated core, fit gay one beker.  412-corb versing a varying random  orientations  shekentings (bijet anaphitis) on fractives	. 20.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	?	2' 5*	semi-consolitated hreceisted core \$\tilde{\pi} \forall \forall \text{tent} \text{vein} z	4,5	sliekensides on foretures Chiefic readinises	427	85	0	52/33	.01	.002	.02	1			.0
	70.90 ,nua*	7-	30-80	5'	best ex sterarb	4,5	10000 300000	447	75	S	5233	.01	.002	.02	3			.0

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

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	100	GRAPHIC	4			1	BOTTOM DEPTHS	4		1			ASS	ÂY RE	SULTS		
ROCK TYPES and ALTERATION	Foliation angle and intensity	100	(veins) < to core	Width of Structure	Mineralization	Est.	Leach Cap Leachable Ox. Lim. Zone	Footage Blocks	Estimated Core Recovery	R.Q.D.	Sample	%	<b>%</b>	%	oz/ton	ppb	Bein
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GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-/ Page 8 of 8 BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Structure Width Estimate Corp Rocovery Leachable Ox. (veins) of-% R.Q.D. % oz/ton ppb Mineralization ' Sample angle and Blocks Estimato Cu Grado ROCK TYPES and ALTERATION Lim. Zone < to core Structure Py Number axis (veins) Supergene MoS2 Zn Ag Remarks FAULT COUT'D 0 52646 .007 ,07 .01 NO 0170 17.2 95 70-30 4.0.4 1.5 .004 .006 .01 157 530 te-corb 100 70-50 ateronal-lipyll. 1.5 52642 .01 . 606 ,17 1 .01 most-537 str 540 545-557 23 52643 70-50 brkix 4.5 .01 .007 .04 1 01 Executated wome, core is fairly connectent sto bresstates tione. their were bellen 100 4.5 brecomità zone. 52644 .01 .002 .02 557 557 station of astalling marks 557' 50H

Hole No. 94-2 Page No. 1 of 9 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG LOGGED BY Dick Poon LATTIUDE (N) = 81,505 N) not CORE SIZE LOCATION. ZE CLAIMS BEARING DATE \_ MAY 11, 1994 LONGITUDE (E) \$41,410 EF SURVEYED SCALE OF LOG /" = 10'. May 6, 1994 551 feet DATE COLLARED LENGTH May 7, 1994 -90° ELEVATION \$3190 feet REMARKS DATE COMPLETED MISCELLANEOUS SYMBOLS and ABBREVIATIONS ROCK TYPES and ALTERATION SYMBOLS diss = disseminated MnO2 = pyrolusite scr = scricite badly broken rock BANDED META -SEVINENTARY UNIT az = azurite cp = cpidote Mo = molybdenite sph = sphalerite bo = bornite gg = gouge mod = moderate str = strong fault gouge StWk = stockwork brx = broken rock gr = garnet ND = pon directional EGREY-GREEN SILTSTONE META-SEDIMENTARY ON! tet = tetrahedrite bx = breccia pied = piedmontite gyp = gypsum † increase carb = carbonate hem = hematite wk = weak py = pyrite O.D = Quarty Diovite L'decrease ec = chalcocite lim = limonite qtz = quartz ( ) minor amount BORDER- PHASE DIORITE chl = chlorite mag = magnetite rx = rock (( )) very minor amount cp = chalcopyrite mal = malachite sauc = sauccrite BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG 9/1 REDONA Width Est. Structure Core Footage Leachable Ox. ppb R.Q.D. 07/100 Foliation angle and intentity Cu Grade (veins) of % Mineralization Blocks Sample ROCK TYPES and ALTERATION Lim. Zooc < to core Structure Py Number axis (vcins) Supergene Cu MoS2 Zn Ag Remarks Z Footage CHSING TO 74' 74 first 6" of core syptems to be Mine Phase QD. probably a till errate. BANDED METH-SEDIMENTIRY 93 10 77 .01 65 52651 .01 .003 .01 An interpreted block str Etz-(rarb) argillite and gray-green 80 silt stone Rais cutby mildly shloritized core 93 numerous earb. veinlets dies by throughout care atar rors. YILXIS 45? our is fairly onleaveous. . - well defined hedding .01 4.5 Thereis at least 2 generation veins are cross corning 003 .01 52652 01 mothed (atz)-corb or on & winters. Rx also kedding please 16710 Py . Re displays soft section glarcarb 800 5" x 1 determention. - Struckly stail fit 94 minor rones of gla blobs (sta)-carb 4" v 1 70 descripted of stightle .01 carbonaceous with relatively .003 .03 52653 .01 4.5 larger around of pry in the sta-blebs than argitlike host (sta)-carb 50 2, x15 AL leave 415" × 70 again some it is view 98 4 milauchous 101 52654 .01 .003 .01 4.5 07 16 ×5 40" (+Z -lears)

Hole No. 94-2 Page 2 of 9 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSÄY RESULTS GRAPHIC Leach Cap . LOG Width Structure Est. 9/T Footage Leachable Ox. Core (veins) R.Q.D. of-% % ppb Mineralization ' Sample Blocks ROCK TYPES and ALTERATION Lim. Zooc < to core Structure Py Number (veins) Supergene Cu MoS2 Zn Ag Remarks - diss by throughout unit GREY-GREEN SILT STONE META-SEDIMENTARY - fine grained, wellow, with UNIT 110'40 130' A proprie bedded and, with relatively fewer 60° in a few thin leyer drawing . 1" x 10 43 52355 .01 4.5 .01 veintely than the Burded Michaelmentory .003 <.01 WK 10-20" 3"×5 2 - learb) throughout unit 117 unit. This unit is generally lighter in overall color than the Banked Metasedmentary unit Naturally this situation unit is coarse 120 grained than the argillite in the Bonded gfz-carb veins are cross cultim, determinant unit toft sedment determination is still well displayed in this 100 each other dark green block very soft unit. The contact between this unit, 9-2 - 5555 V15 52656 :01 .002 .01 "stringers" of chlorite .01. and the previous unit is somewhat 127 o radational. 1-12-5016 80" DIORITE / GABBRO: 130' to 361.5' some of the hornblende. str-corb This unit is highly mafic. A dark grey unit with large dork grains are euhodral and have a diamond shape NO 52557 .01 green blebs of chloritetallered from 100. .01 4 + 7 . cato .0: in cross-section. harmblender. Matrix is composed chiefly unit has a varying of atz + biolite + miner playsoclase. The percentage of hornblate blebs to marrix bur cure appears to break along possible gtz-correlationship Compani rateonel/ enteritional shoots. The laster 98 constant. at the shears resembles a phyllife and ] - normalende cryslals are 5265 5 .01 has a "soon" feel. The unit is 4.5 study and have no preferred directions. .01 0" ata cons calcareous with minor number of Veinlets throughout unit. The contact the biolife grains have a random necession between this unit and the previous atz carlo unit is quite sharp. the unit does not have 99 one large brille zones. like the Bonded Mela-ND et : · carb 50457 .01 .002 .01 .0 4:5 157 sedmentory unit. diss py throughout unit 100 .01 ND 2-1- carb 4.5 10. 100. 52560 .01 167

Leach Cap . Footage Estimated Core Rocovery R.Q.D. Est. g/T ez/ten Leachable Ox. % ppb Mineralization Sample Lim. Zone Py Number Supergene Cu MoS2 Zn Ag Remarks some augregates of fine grainful py in the form of py blebs in 10. 100. 100 67 52661 .02 a minor part of the 177 unit

Hole No. 94-2

ASSAY RESULTS

ROCK TYPES and ALTERATION < to core Structure Cu Grade axis (veins) gla corb NO .01 - some light colored felse 99 bands(possible dyte) incorporating bornblende-50662 .01 10. 100. NO blebs gtz-carb 157 100 gdy-rarb 1.5 80 52663 .01 4.001 .08 :01 NO: 197 35'10'0" gir cars 100 4.5 110 .001 .08 127-rors 10. gly rare 0'10 55 100 113 4.5 ND .001 .11 52665 .01 :01 gty-carb 100 :16 .002 .09 4.5 5 3666 .01 9-12-14/6

GRAPHIC

Structure

(veins)

Width

of

LOG

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS

Hole No. 94-2 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSÄY RESULTS GRAPHIC Leach Cap '-LOG Width Structure Est. Leachable Ox. R.Q.D. (veins) of Mineralization % oz/ton ppb Blocks Sample ROCK TYPES and ALTERATION Lim. Zone < to core Structure Cu Orade Py Number axis (veins) Supergene Cu MoS2 Zn Ag Remarks - some soft black veins (possibly chi) +" x1 gtz-carb associated with ote-100 50 52667 ,01 .002 .06 corp veins DIM ·CI 100 water circ 100 UV 4.5 43 52668 .02 .002 .05 small amount of partie, 100 in the form of 1,411e 4.5 scales, found in some ND 53 5269 . 01 .01 100 of the fractures .06 some mod py GREY. GREEN SILTST ONE PETA-SEDIMENTARY 4-2- (orb) 100 discontinous veintets UNit; 261 40 421' This one is seen a to the perception. within tray Green 70 | 52670 .02 .001 .09 gtz-carb-chi 4.5 described Gray-Green Sulstone Unit. Sillistone Melasadimentary] Within this unit there are several. Dail. examples of the Border - Phase horn Dende crystal in Diorite interfingering throughout. Border Phony Wingers - herefore, within about a 15" ore again stubby, so 100 interval there is an alternating no preferred printations 73 52671 .01 begueres of the frequencies without 4.5 .001 .06 . 0 unit and the Roller - How Distre gdz-carlo 15 15 unit. The confact between this unit and the dorder what Bearite with number of attention it - carb 3 7 verse how previoually is fairly sharp increased 70 |53 573 .01 .001 .05 4.5

Hole No. 94-2 Page 5 of 9 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSÄY RESULTS GRAPHIC Leach Cap . 9/T oz/ton LOG Structure Width Est. (veins) Leachable Ox. Cope Foliation angle and intensity R.Q.D. of-Mineralization % ppb Blocks Sample Estimated Cu Grade ROCK TYPES and ALTERATION Lim, Zono < to core Structure Py Number (veins) axis Supergene Cu MoS2 Zn Ag Remarks micro faulting of sediment laminations ... 16 20 3" 100 - SLWK of glu-carb 70 52673 .02 .002 .05 13 297 105 4.5 52674 .01 .001 .05 . ). 307 100 52575 .01 .001 .05 gtz-carb 4.5 .01 - stuk of strend veins from 322' to 100 小十分 3551 4.5 53576 .01 .001 .05 .07 227 diss Ai throughout 100 .01 4:5 ,001 ,08 52677 .01 237 100 4.5 67 52178 .01 .002 .06 .01 347

Hole No. 94-2 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Structure Width Est. 9/T oz/ton Footage Core Core Leachable Ox. Foliation angle and intensity (veins) of-R.Q.D. % % Mineralization ppb ROCK TYPES and ALTERATION Blocks Estimati Ce Grade Sample Lim. Zone < to core Structure Py Number axis (vcins) Supergene Cu MoS2 Zn Remarks some mottled gt & gtz-carb 5-1,000 minor "fatches" of pricrystals and 100 20 52679 .002 .67 10. ,01 400 diss by throughout atz=carb 357 gtz-carb veins are cross culting one another 100 900 1 "x1 atz-carb 67 1.5 10 52680 .01 .001 .06 367 200-10500 gtz.corò - much of the pry can etz.corb 100 found as wishedral olebs forming an 01 .001 .07 52681 .01 aggingate 277 Stricaro bands of green gray. 2-7-10-6 Tight strengton be soon contrasting the legaler 100 unit but otherwise .6 57 5 358 looks quite similar. .02 .001 .08 351 gdz rearb These lighter bands however have a more gtz rorb From 290' 10 400' - hare 100 degree of fracturings along with give ratio gtr-carb .01 43 50653 102 100. 100. than compared to the test of the duit. The core 17.55 Severally breaks along 100 chlorifized and .01 .001 .09 1.5 graphitic fractures 52684 1.01 glz lears 1107

	4	GRAPHIC				1- 20-	BOTTOM DEPTHS		1			ASS	Y RE	age 7		.80	ASSÄY RESULTS						
ROCK TYPES and ALTERATION	Foliation angle and intensity	LOG	Structure (veins) < to core	Width of Structure	Mineralization	Est.	Leachable Ox. Blocks p		R.Q.D.	Sample	%	%	%	9/T 02/100	ррь		Pada Ca						
		Footage &	axis	(veins)		Py	Supergene Remarks	1		Number	Cu	MoS2	Zn	Ag	Au		Gra						
				į. ".	giz-carb	۷.5	$u_1$	99	а3	52685	.01	.002	.07		•	-							
		420	20"	\$"x1	glz-(carb)	-			_								$\perp$						
		430	5° 0°	t"x!	gtz-(carb)	4.5	49	100	70	52686	.01	.003	.01	1	٠								
DED METASEDIMENTARY UNIT:	201	3 3	ug"	4 Tax is	ctz-corb			100						70			$\dagger$						
is unit is similar to the eviously described Banded to the school work. The contact ween this unit and the Grey-	3° 10' 10'' 5 <del>1</del> c	440	5°1403°	\$	5 2 1 (corb)	1.5	rent direct		53	52687 -	.01	.003	.01										
gen substance until to Edictor		450	50°	; ″×1 5 ″×1	(24-100E)	۷.۶	-foult gover from 442' to 452' -the arginate fractures was are again highly graphitics	96	13	52682	,02	.003	.02	1									
		100	27/4	1	giza sessi	4.5	- Sive grained diss for the construction of th	95	17	52589	.02	.003	.01	1									
		1400	60'	£"."	iętu-Sarb)			9-7						亥									
			7/5*	T'V	etz-(carb)	₹.5	1/35	, .	30	58690	.01	.003	.01	1			1.2						

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG Hole No. 94-2 Page 8 of 9 BOTTOM DEPTHS GRAPHIC ASSAY RESULTS LOG Leach Cap . Structure Width Est. Estimates Core Recovery 3/7 Leachable Ox. (veins) ROCK TYPES and ALTERATION Mineralization i % R.Q.D. angle an Blocks Sample ppb < to core Lim. Zonc Estimas Cu Grade Structure Py axis (veins) Number Supergene Cu MoS2 Zn Ag Remarks 100 4.5 30 52691 300 .01 .003 .01 477 minter parts of the unit are interfingered 97 ion a yellow, soll 4.5 mineral ( suprum ?) 12 52692 10. .003 .02 487 99 40 4.5 52693 .01. .002 .01 497 GREY-GREEN SILTSTONE META-SEDIMENTARY 100 gly. (car) JUIT: 499' to 507' 100 Similar to the previously described 30" 4.5 100 52694 1.01 Grey- Green Sillistone units, with wk 1.002 .00 507 the only exception being this particular section is full of ...soft yellow "stringers" (gypsum?). - zones neighboring fout are highly drawfired at a - lears GH There is a gradational contact 4.5 17 hetween this unit and the 52695 .02 .0 .002 .01 517 Gandod Matasadimentary unit. BANDEL META-SEDIMENTARY UNIT: - fault goog from 05 t - 0 507' 40 5511 12-6-1 525 - 5 536 This and resembles the other tomber 0°40 4.5 Metacedimentary units but this porticular unit is more breciated to 50696 .00 10. 600 Mar.1992

Hole No 94-2 Page 9 of 9 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . Blocks Recovery 9/T oz/ton LOG Width Est. Structure Leachable Ox. (veins) of R.Q.D. ppb Mineralization ' Sample ROCK TYPES and ALTERATION Estimated Cu Grade Lim. Zone < to core Structure Py Number (veins) axis Supergene Cu MoS2 Zn Ag Au Remarks - bedding is strong everything breaking 70 1.5 52197 3 10, 600, 2 .10 81 -1 -(cars) 90 543 glz. (carb) 20 52698 4.5 .01 ,003 .01 98 55% EOH. 551' Duch Rom

Hole No. 97-3 Page No. 1 of 8 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG LOGGED BY G. Gruhisa = 74.780N) not CORE SIZE LOCATION. ZE CLAIMS LATITUDE (N) BEARING DATE \_\_ May 14, 1994 SCALE OF LOG May 7 1994 55.7 LONGITUDE (E) \$40,470 ET SURVEYED DATE COLLARED LENGTH 257'-277' HAN TO TRICONE CORE FROM May 9. \$ 3090 feet 1994 -90. REMARKS NO ELEVATION DIP DATE COMPLETED MISCELLANEOUS SYMBOLS and ABBREVIATIONS ROCK TYPES and ALTERATION SYMBOLS ser = sericite diss = disseminated MnO2 = pyrolusite badly broken rock BORDER PHASE sph = sphalerite az = azurito ср = cpidote Mo = molybdenite LEUCOCPATIC INTRUSTIE QTZ DIORITE bo = bornito mod = moderate str = strong = gouge fault gouge StWk = stockwork bex = broken rock ND = non directional = garnet METASERMENTS Increases
Josienteous silts fone, colenteous GRAVITE MIN PHASE pied = piedmontite tet = tetrahedrite bx = breccia gyp = gypsum † increase QTA DISSITE Chent, grey sittsfore, grey argillite carb = carbonate py = pyrite wk = weak L'decrease cc = chalcocite lim su limonite qtz = quartz ( ) minor amount chl = chlorite mag = magnetite rx = rock (( )) very minor amount cp = chalcopyrite mal w malachite saucerite BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Core Width Est. Structure COOKAGE Leachable Ox. -: oz/ton ppb R.Q.D. % (veins) of Sample Mineralization Blocks ROCK TYPES and ALTERATION angle and intensity C Lim. Zooc 225 < to core Py Structure Number Supergene axis (veins) Cu MoS2 Zn Ag Remarks CASING TO 129' 123 133 130'-155 212 1, Imon This hold ansoyntains a wind reason of mela-Border Phase Gitz Dierric? 20.50 7.25 Can- bear fine seatments. Siese moderio colourenes suttiture, 712-Corp 100 30 15-20% 172 55% plag calcoreous shert, siliceous grey silisting, grey 37 52701 10. 01 601 .01 35% 64 5 bokox > lim - hem siltationet dark mayor dilite. Grain size is implied than 14.2 tiz-carb The cremil ADD is very poor as that of the usual Normal . Mine this Q.O. Working ranging 82-4 in diameter. Augerras faults oie infersectes. V. 85 lim-hem 65 The Grant Min Photo With Month is lim present in fractices. The intersected at 1991's continues to EOH, It I n bak ex -> tim- hem, -35 lost core 10 21 rock is also dooks than the 52700 .01 002 01 deate bet ex is intensely attended and stated of clan usual chi akned Mins large Q.D. ] able tile this booms predominant. Retrograde citate ella is nervasing thrush the care Tripping was initiated from 257-77 146'-158' FAULT 39 3 1 lin. as esso received which conventions. 20 thrust fit. .001 .04 NI 52703 .01 21 158'-186' Green Metasediments Ki- 5"x 20 mottled early veining. (coloreous siltstone)

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG Hole No ... BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap -LOG Structure Width Est. Leachable Ox. Core (vcins) of-% R.Q.D. ppb Mineralization ' Blocks Sample ROCK TYPES and ALTERATION Lim. Zono < to core Structure Cs Grade Py Number axis Supergene (veins) MoS2 Zn Ag Remarks 158-1861 Green Metasadiments (colcareous sitistions) 1-5 × 30 10-90 cosh-(otz) struk v. fine ground to pervasive carb -(gta) .001 .07 43 30 01 allered arogenite? 6-- fizzy & ACL acrevlar 52704 ND vein Sturs. This zone appears to be 01 green stals. 'V," heavily aftered by ellerite Proctores display etz-corb. same for of microscopic charge supporting im zone w-early struk 10-70 the stepenie of chlorite. The corb vein struck intens manne of carb stynk + 55 isolated py veinlets
passible as 7 but may be 15 so intende in some areas that the past intense stank to almost Zone a becomed appearage. has a brecriated agreemence although the 1.5 52705 :01 ,001 .06 tee sett! .01 core is relatively consistent. The waver confuct I core is very countly: 177 the divisite is undistinguishable and probably occurs towards the lower port of the fault. carb clkwk 10.90 There are also several limanite remes. 90 separates by "elean" zone; within this unit " 7 5% billing > ha. 186-188 -> Calsacens aray Zong NO 30 52706 :01 .005 .02 Py is observed in these zones. .01 sittstone Otercarb struk is 1187 186-185' Catalogy & arey siltatine still reporting to the soil. 188- 231' Carn struk Colemans Green Chest I care tires 15-90 100 This unit is identical in appearance To the green vitations unit, Carb stikuli is NO 4.5 52707 .01 .004 .01 .0/ evident but carb has been dissolved touring 137 Freetuces only No deep. The care is hard (5-6) (as opposed to the soft sillstone) a emposion. Fractures are concentral. Arenseeus sandstene electe & & in dia one I carb struk 4.5 20 52708 10-70 observed from 195'- 199' 1004 4.01 .01 NO .02 201 brecx -> lim 35 tion 10-00 bit ix white Zone 4.5 101 1.003 4.01 .01 teach stank Mar. 1992

Hole No. 94-3 Page 3 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Structure Width Est. 3/T Pootage Leachable Ox. (veins) of-% Core R.Q.D. Mineralization ppb ROCK TYPES and ALTERATION angle and intensity Blocks Sample Lim. Zong < to core Structure Ca Grade Py Number axis (veins) Supergene MoS2 Zn Ag Au Remarks Green Chart Cont's 19-95 brktx->lin 219-231 · tearb stank interbanded gray chart zone 7,000 5.7 DIG (2-6" bands) and calments .01 .002 4.01 .01 227 green cheft. I carb stkwk. 231-23: " -> Leverocratic Introduce 85 Light gray primal trek. Sylvently shered 35-90 Qto xstd: notes 5 & who die a 4.5 01 mai-str Followier. 03 .002 .01 237 yelladish access the first street ping? diss by through ser eith an fine. britex 338/\_ 257 / Estexbooks gray silicens stitution/grey bekey 30 sitts tract dark over atallite 4-1"x35 NO 2 7-55% 4.5 10-90 .05 .006 .01 grey siliseous silisting -> v. Fing grained .01 248-218' EAULT! gifty mother crosseut by numerous pla-both) voins, it in sive stavens. Gussum
occurring in filled bandstables fore giving b:Ktx -intense goode thekex no sore 30m 257-277 74" Ministr's experience of a tribes street tolore" life shows are 40 are sillatone of some on whose but of 10 akert wi bik ry 0! .01 sintence of the recipies. Gyptom still proximate .001 .01 Tox Preferred. EROM 1 CONE 250-257 doctorer or teleptotage - moderately NO 0023 the died securous in teleforeign thin bonde, distry, follow previous a grandwises. ABLOVEABL NO SAMPLE 0 Tion 3 .01 .01 1.002 .01 277'-230 33 → brecognited Traypavan.

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . 3/T LOG Width Structure Est. Estimator Curo Recovery Footage Leachable Ox. (veins) Foliation angle and intensity R.Q.D. of-% ppb Mineralization ' Blocks Sample ROCK TYPES and ALTERATION Lim. Zone < to core Structure Py Number axis (veins) Supergene Cu MoS2 Zn Ag Z Footage Remarks Intertacked acry silicens sillstone/gory fault sillstone / look grey orgillite/siltitume. contid bekerx/ge 527/6 ND 4.5 .04 4 0 .001 20 bekex 6.5 5.2717 : 101 10. 200. 01 dark grey and life is glamant veins glalvosgyl 3 - Folded + executated attractives 4.5 .01 1 10.1 100. 1. Waso consisted by binds. .01 be872/10 80 40.70 5277 4.5 10. 100. .01 3" gia-cark 8 52720 .01 327-338 - uniform dank ) grey sillstame Vgyp, vgt. Combustains 1.001 cremitted gry bonds. 25 giz: cach 20 " destable 4.5 1.01 ,002 .01 21

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Hole No. 94-3 BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . Blocks Recovery LOG Structure Width Est. Leachable Ox. (veins) of-R.Q.D. % ppb Mineralization ' ROCK TYPES and ALTERATION Sample Lim. Zone < to core Structure Py Number axis (veins) Supergene MoS2 Zn Ag Au Remarks Interbooked grey siltstone/dark grey acquilite/siltitione contid gg - T'talcose sheen" . ". ND-50 140.00 4.5 52722 10. 100. 10. .oi 317 wit atz-94? 44 atz-oxp-671 70 5' folded boker -> Paye bunds. 4,5 52723 .01 100 .01 01 357'-436' 357'-438' MASIZ FAUL brktx/39 Back new-block siltstone famillate intense of should librar hikexizz common. There are a few moneys of singularitisms out for the work partial this money 1966 is need poor, Foult execut to This unit is extremely broken up in only on few Implications areas having computent ears .01 52724 .001 4.01 0! Belling angles are produced for themest part 357 Receisted veresingulat by Margark coming ate cure he contest of water rice was ate common as well. The presence of ground as a present 45 to completely encourage of this make MA .01 10. 600. 377 45 15 52726 1.01 001 4.01 150.50 Folder Stancara 39/6:KIX NE 3.5 52727 .01 .001 4.01 25-10 fin terra atz-carb Mar. 1992

	1	GRAPHIC		7.		,	BOTTOM DEPTHS		-:	100			ASSAY RESULTS				
ROCK TYPES and ALTERATION	Polistica angle and inscurity	LOG	Structure (veins) < to core	Width of Structure	Mineralization	Est.	Leach Cap  Leachable Ox.  Lim. Zone	Footage Blocks	Estimated Cues Recovery	RQD.	Sample	%	% 9	9/7	ррь		Estimate Ca
	1.5	P. Footage	axis	(veins)		Py	Supergene Remarks				Number	Cu N	foS2 Z	n Ag	Au		Grada
Dank grey-Wark siltstone forgillite.	μů	410	7	7' . 3'	99 80 X 2 X 2	z.5	MAJOR FAVLT CONT'D  Beecelated some	.427	45	57	52728	.01 .0	001 <.0	1 2			.01
	-NB	1 120	23	%*** 3%	giz-coni bokov	4.5		417	80	0	527231	b. 10.	x)   4.0	2			.01
	NÓ	100	40-50	3 ½ "	gtoresis struk	4.5	421'-436' breceialed some-samplifications is glassically very stammar to the total decided the total than the t	427	70	7	52730	.01 .0	002 4.0	1 1			.01
36-11" -> greenin provintificis. W	NO.	1.20	92	6' - 2,-{\sqrt{y30}	ga in glander som allend	4.5		<u>932</u>	80	7	5771	.01 .0	02 .0	2 1			.01
<u>W-557, 505.</u> Greek alterature tusselbran is with Was oth oute? hs is at esteral arread wat an after	14.	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				:5	Ace thousand	<i>::11.</i>	100	40	57732	.01 .0	0. 100	(			.01
nd Shentang have tousleftly channed the proposed of the proposed of the conf. Barbarian is reliant to the proposed of the conf. I have been a superior of the conf. I have bee	1.0	1 4 4 5 1 4 5 1 4 5 1 5 1 5 1 5 1 5 1 5				ــ د.خ	Persona.	137	100	43	5313C.	.01 .0	101.0	41			,01

Hole No. 94-3 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Width Structure Est. Footage Parliment Core
Blocks Recovery Leachable Ox. (veins) % R.Q.D. of ppb Mineralization ' Sample ROCK TYPES and ALTERATION Lim. Zong Cu Grade < to core Structure Py Number axis (veins) Supergene MoS2 Zn Remarks A very noticeable foot name orders liter in the sequence. All Fractures we content 461-> eta grains became visible by some type of allow or adjusted That entirely 100 23 52734 4.01 ,001 4.01 41 definitely Granite Mita NO .0! ate numerous. Hem. occurs at reason 457 Phone oth binite! intervals Brook. The Core atthron intest for the most port, is very frighte and prohibly is in a transition before turning to gauge. 50 30 52735 2.01 .001 4.01 MA 477 479'-513' FAULT intense gg & only glagories. 60 10 teft intast 14 52736 4.01 .001 4.01 41 10. 481 65 0 52737 4.01 .001 4.01 41 115 4.5 51 502 20 27 20 52733 ND 4.5 (.01 | .002 | (.01 | 4 50") 100 52733 .01 .002 4.01 41 517

Hole No. 94-3 Page 8 of 8 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG 9/T Structure Width Est. Footage Estimated
Core
Recovery Leachable Ox. (veins) of % Py R.Q.D. Mineralization ppb Sample ROCK TYPES and ALTERATION Estima. Ca Grade Lim. Zone < to core Structure Number (vcins) axis Supergene Cu MoS2 Zn Ag Remarks ND 4.5 17 52740 .01 .002 4.01 .01 527 100 JN. 43 5274/ 4.5 :01 .001 4.01 4 10. then zone. 100 4.5 110 01 30 52742 4.01 .002 4.01 241 100 52773 4.01 .001 4.01 41 ,01 557 557' EOH

Hole No. 94 - 4 Page No. 1 of 8 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG LOGGED BY Dick LOCATION. ZF CLAIMS LATTTUDE (N) ≈ 75,180 N > not CORE SIZE NQ BEARING May 9, 1994 LONGITUDE (E) = 41,420 E CONVEYED SCALE OF LOG 1" = 10'. DATE May 17, 1994 LENGTH 557 feet DATE COLLARED ELEVATION = 3/60 feet May 11, 1994 -900 REMARKS DATE COMPLETED ' ROCK TYPES and ALTERATION SYMBOLS MISCELLANEOUS SYMBOLS and ABBREVIATIONS MALTERED EPIDOTE-CHLORITE QUARTZITE MnO2 = pyrolusite a badly broken rock ep = epidote Mo = molybdenite sph = sphalcrite bo = bornite = gouge mod = moderate str = strong fault gouge gr = garnet StWk = stockwork ND = non directional BRANDED METASED IMENTARY FITRANSITION ZONE (between Border Phose Diorite and Border I Metased Imentary) pied = piedmontise bx = breccia let = tetrahedrite gyp = gypsum † increase carb = carbonate bem = bematite py = pyrite L'decrease cc = chalcocite qtz = quartz BORDER PHASE DIORITE GRANTE MOUNTAIN PHASE QUARTE DIORITE ( ) minor amount chl = chlorite mag = magnetite rx = rock (( )) very minor amount cp = chalcopyrite mal = malachite sanc = sancerite BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Width Est. Structure Leachable Ox. 201 Corp oz/toa R.Q.D (veins) of % Mineralization Blocks Sample ROCK TYPES and ALTERATION angle and intentity Cu Grade Lim. Zonc 2121 < to core Structure Py Number Supergene axis (veins) Zn Ag MoS2 Au Remarks CASING TO 1081 .001 4.01 .01 10862 · some broken fragments. ALTERED EPIDOTE-CHLORITE 112- carb T 42 50 of quartizites within MINE PHASE QUARTE DIGRITE 91 unit so parts of the UNIT 1081 to 129 110 0 Unit may have been 52802 -01. etr-caro recilled ,01 002 4.01 separated from the Overall dark to medium green, bedrak and were suspents highly altered, interlocking oggregates of juz-chi of This in the over burden 20 - limonite and magazese unit is also highly oxidized, more staining seen in the so in some sections than others, 0 -01 04 Fractures 50000 .01 100 .01 with limenite and managaness - no py grains of oil staining quite evident and appears. 1073-carb massive with no bodding and totalines GREEN SILISTONE UNITEDS'46 BJ from 130' la 110' a relatively unditted 92 Dark error , fine grained, massive cection of Mice Prese unit. The unit is fairly soit to W 10 10,2 500 CI 5.47.4 01 Quartz Digrita ( resalited 0 large chlorite content there are Colcoreous epifractures running throughout unit

Hole No. 94-4 Page 2 of 8 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap '-LOG Width 9/T Structure Est. Footage Leachable Ox. (veins) R.Q.D. of-% Mineralization Blocks Sample ROCK TYPES and ALTERATION Lim. Zone < to core Structure Py Number axis (veins) Supergene Cu MoS2 Zn Z Footage Remarks - from 140' to 144 is an ALTERED EPIDOTE - CULORITE unaltered interval of MINE PHASE QUARTE DIORITE Tonalife with some 11 VIT: 134' -0 200' 33 52205 ,002 4.01 paritization seen for .02 .01 This unit is similar to the other ] the first time in this Tonolite unit (first described). The hole) contact between this unit and the Green Siltstone und is 97 Shorp-NO 942 .01 27 52806. 0 .01 10.2 100. 157 -from 150' to 200' the unit appears increasingly oxidized 50807 .01 .001 4.01 NO .01 :57 17 8 50203 .01 12 10.2 100. . ) from 183' to 200' the gt 2-cars uni- 15 he auth predized and the present of the is orange - crown throughout . The unit ramins consonorsous -52509 (.01 .002 100 10. 187 mothled 1 2- cm. Haranite and oxidation, has severely weakened the which thereby gerend-52310. ing tots of frequented core. 10. 1197 002 01

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG Hole No. 94-4 Page 3 of 8

BOTTOM DEPTHS ASSÄY RESULTS

Leach Cap .

ROCK TYPES and ALTERATION	Polistica angle and intensity	GRAPHIC LOG				Est. % Py	BOTTOM DEPTHS	1	Estimated Core Recovery	R.Q.D.	ASSÄY RESULTS							
			Structure (veins) < to core axis	of	Mineralization		Leachable Ox. Lini, Zone	Footage Blocks			Sample	%	%	96	9/T	ррь		Estima
							Supergene Remarks				Number	Cu	MoS2	Zn	Ag	Au		Grad
SAUDED METASEDIMENTARY UNITED AND THE BOOK OF THE BOOK	0°45 90°	X X X X X X X X X X X X X X X X X X X	stiuk	15"24 1"	districtory .	0		307	প্র	:0	53811	.01	,001	.01	1.	,		1.0
there are alternating sections.  From this unit and the sinered Epidote-Chloride Mine Fraze Guertz Diorite fallered.  The landed sectoral fallered and sectoral fail. The landed sectoral fail of the landed sectoral fallered fallered.		10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	90°	\$"e1	giv. corp	0	-fault gauge through the section from 212' to 225'	217	85	3	53813	iol i	.001	.01	1			. (
accous. The condect between this that and the alteral Tonalise.		300	co <sup>6</sup>	J''81	gtz-carb	. 0		297	30	3	57813	.01	.00Q	١٥,	2			
RANSITION ZONE F 236 to ault thinly commoded, pole yellow-sommoder have common thing black layers under throughout it. This is a commoder when the Borded to the continuation, that and the	NO	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	5°	1 t'√1	git-raib	<.5	- further examination of the soft yellow- green layers, indicate it may be gypsum.  - fine ground diss by throughout yone	,257	60	7	57814	.01	.002	.01	١			,
Border Pulate Bioristitus Socied beingen Hus gone and The pievious months should	E	2000	mal24e)	,	ştr./c.d)	Ω	- no py seen at all throughout the Border Priose Cionise Unit.	2 <u>u-1</u>	?> -	7	52815	.01	.001	.01	1			
STORITE/GABBRO ? (Ultrabasic?)		0.00	523. 152 <sup>7</sup>	4. A.	gtalan	4.0	-small transition zone from 2001 to 2005' that resembles the other transition rece	257	3%	13	50515+	.01	002	.01	1			60

Hole No. 94-4 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSÄY RESULTS GRAPHIC Leach Cap '-LOG Structure Width Est. COCCAGO Leachable Ox. (veins) of Mineralization % R.Q.D. oz/ton ppb ROCK TYPES and ALTERATION angle and intensity Blocks Sample Lim. Zone < to core Structure Cu Grade Py Number axis (veins) Supergene Cu MoS2 Zn Ag Au Remarks cly. (sorb) this unit and the transition Zard diss by throughout the is gradational. This unit is calcultions 3+2-(1016) Tronsition Zone. the hornblende crystal NO 53217 10. 80. 500. 131 4.5 shapes are hard to distinguish exactly BANDED METASEDIMENTARY UNITS in . Banded Metased mentary 253 atz cara 1136 of 916 55 unit is shaley and resembles cool in a four Loss banding in this unit as spots, with the odd 1.5 0 52818 10 1.004 .06 compared with the other Conded ND .7 I'm enclosurin cultury. metaledimentary units. This particular unit is an argitlife and through. is very fragile (lissue). The From 275' to 522' unit is meetly all black and is is foul gouge very, very carbonaceous and ND E 50 52819 graphate richteven more so then 0 .01 .002 .02 287 the other banded Metandomentoni gradational contact between TRANSITION ZONG: 224' to 294': this Transition Zone and the 80 Another your separating time. previous Randed Metasdimenting argillateous units. This Tost , pole 3 11 250 giz- carb unit. creen unit has undergone evidencine IND 52820 .01 1.002 .01 .ot 0 -foultgouge from 300° alteration and is heavily chloritized. Again there is interfingering of again. 'see 0-. oceans layers in roughout the zore. GRADITE MOUNTAIN PHASE from 2001. to 312' is QUARTE BIORITE; 2991 to 330 a more altered and 47 52821 4.01 .001 4.01 41 9/2- carb Sourceated stagions the unit . chloritized version of the Granile Mountain appearance. Light green Elecason please. Alone with Chlorite throughout the unit. The extensive hamatile unit generally breaks may intout chloritical security. This unit is Staining , making parts 90 of the unit o raily fairly carbonaceous. 12D e videni red opposionic. 43 52328 4.01 10.1 100. 317 01 veinis no py seen at all

Hole No. 94-4 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Width Structure Est. 9/1 Footage Leachable Ox. Core (veins) of % R.Q.D. ppb Mineralization Blocks ROCK TYPES and ALTERATION angle and inscessing Sample Lim. Zong < to core Structure Cu Grade Py Number axis (veins) Supergene Cu MoS2 Zn Ag Footage Remarks evido ... UN 20 52825 4.01 .001 4.01 41 0 10.015 307 LEUCOCRATIC PHASE: 330'4037 - no py visite throughou A very hard, Ex rich, and light the unit. colored unit. The unit dar to its -this Leocarratic unit: ND evident 43 53824 :01 1.002 4.01 41 Of hardness and texture, has a smooth. is not user estaments 42:17/5) external feature, in direct contrast - timy clear liskes of to the Granie Mountain Phase unit. mucoulta throughout The contact between this unit and. the unit the Granier Mountain unit is sharp. Overall, and hithology for this unit con her described as an 33 57835 4.01 .002 4.01 4 Du 101 intercrystaline at 2 porphyry. 500 There is a very minor component of chlorise throughout the unit 95 This unit is not careonacrous 17 | 52836 | 4.01 | .002 | 4.01 | 41 211 0 evidens VELACO GRANITE MOUNTAIN PHASE anadaminen contact Extracon the Lementic QUARTY CLORITE: 367 to FOH 25 9 . 2 . ch 2 11 Hope and and the Gramm This unit is similar to the other 19 12 1 (01 .00) Mountain Phase unit .01 -21 Granite Mountain Mase, with UU 2,1.1 a few differences. The first uni- breaks along being this unit has more chlarte which makes this unit a politively chloritized taloge shows; durker green than then before the minor dissing . second being, the give interest of the second being, the give interest of the registers of the second being in the second being in a coloring of xupus trise porphysy. This was its slightly 98 Alex district 1.5 50000 401 c. der .01 10.3 100 weigh Carbonaceous

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG Hole No ... BOTTOM DEPTHS ASSÄY RESULTS GRAPHIC Leach Cap . Width Structure g/T oz/ton Est. cotage Leachable Ox. (veins) of R.Q.D. % Mineralization' % ppb Blocks ROCK TYPES and ALTERATION Sample angle and inscusity Estimated Lim. Zong < to core Structure Py Cu Grade Number (veins) Supergene MoS2 Zn Ag Z Footage Remarks unit has been completel broken apart in some areas due to feldigar 70 10.2 100, 10.1 2656 20 NI enden alteration. In other 401013 pitted, not due to segregated. gtz, but because chlorife 85 has been gulled out. The gte grains are much larger 50830- 101 .001 4.01 in this Granite Mountain 15 unit than in the other Granite Mountain unit. 20 20 5223 4.01 .002 4.01 4 1.5 90 6.5 50 830 401 .001 4.01 417 k the 1st Granite Mauricinaria? from 420' to 422 12 an interval of low 95 chloride content glast 1 10.2 100 10. like the usual of z 1127 porphy of the leverenty & note: because of the well secundary detended of the previously, detended Granie Mountain unit 90 is naturally less resistant 1127, than this gtz forphyry 401 t. DO 528 2 5,01 .001 4,01 .3

Hole No. 94-4 Page 7 of 8 GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Structure Width Est. Core Recover Footage Leachable Ox. (veins) of-% R.Q.D. Foliation angle and intensity ppb Mineralization Blocks Sample Estimated Cu Grade ROCK TYPES and ALTERATION Lim. Zong < to core Structure Py Number axis (veins) Supergene Cu MoS2 Zn Ag Au Remarks o few small blelos of hamatite (red-brown) 96 can be seen. NO 50835 from uus' 10 453' the 30 UN 10.001 < 01 evident 1.5 .5 1017 gez is well segregated veinter 93 52836 01 .001 4.01 . 0 457 1.5 95 5 2837 4.01 .001 4.01 4.5 .01 115-1 from 479' to 45 07 the sty is well segregisted and there are from layers of 52838 .01 .001 4.01 4.5 20 97 50839 1.5 10. .01 1 10.> 100. 451 99 1.5 50240 (.01 .001 4.01 .01 497

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG

Leach Cap .

Leachable Ox.

Lim. Zonc

Supergene

Est.

%

Py

4.5

4.5

4.5

1.5

Mineralization i

GRAPHIC

Structure

(veins)

< to core

axis

No

Buident. veins

Width

of-

Structure

(veins)

LOG

ND

ROCK TYPES and ALTERATION

Mar.1992

BOTTOM DEPTHS ASSAY RESULTS Core Recover Footage R.Q.D. ppb Blocks Sample Cu Cu Grado Number Cu MoS2 Zn Ag Au Remarks from 500' to 520' ore afternating layers of segregated gla and gtz porphyry but both layers sill land in the Grand Moratain 93 52841 <.01 .001 <.01 <1 20 .01 80 50840 (.01 .001 c.01 4 . 01 517 94 52843 4.01 .001 4.01 41 . 3! 527 - unil branks along, interest beaming and chlorified sheers. The increased constant of herealth results. 90 52844 4.01 .001 4.01 1 ,01 in on olonest tight some sections of 97 the unit: .01 50845 4.01 .001 4.01 1 547 98 5 3846 <.01 .001 4.01 ,01 4

Hole No. 94-4 Page 8 of 8

Dick Por

55/ E OH

LOCATION. ZE CLAIMS	DE (N)	INES LIMITED DIAMOND DRILL LOG Hole No. 94-5 Page No. 1 of 9  (N) = 75,675 N ) not CORE SIZE NO LOGGED BY G. Grubisa/Nick Pa																
DATE COLLARED May 11, 1991		E	NGTH	55	7 LONGII	UDE (	(E) ≈ 42,370 E & survey				1"= 10'	•	DATE	M	ay 20	, 1995	,	-
DATE COMPLETED May 12, 199		DI	RATION ST	-90	ELEVA	поп_	= 3190 feet ) '		MARKS					_			_	=
B GREY-GREEN SILTSTONE UNIT COMMITTE MEN PHASE OF A DIRECT						ははませせい	badly broken rock  fault gouge  fault gouge  increase  decrease  minor amount  wery minor amount  ax = azurite be = bernite bx = broken carb = carbon chl = chlorite bx = chalcon chl = chlorite	rock g	iss = diss  p = epic g = gou r = garn yp = gyp cm = ber m = lime ag = ma al = mal	cminated lote ge et esum natite mite gnetite	MnO2 = 1 MnO2 = 1 MnO2 = 1 MnO3 = mnO4 = mnO5 = mnO	pyrolusite olybdenite oderate on direction dmontite ite ite	te spi str onal St' tet wk	r = serie h = spha = stron; Wk = sto = tetrah = wea	derite g ckwork edrite k			_
ROCK TYPES and ALTERATION		GRAPHIC LOG	Structure (veins)	of		Est. % Py	Leach Cap · · ·	-	Own	RQD.	ASSÄY RESULTS							Г
	Foliation of V				Mineralization		Leachable Ox.	Footage Blocks			Sample	%	% MoS2	% 02	oz/ton	ppb		Está Ca Gra
		2 Footage	< to core				Supergene	-			Number	Cu		. Zn	Ag	Λu		
CASING TO SI																		
ARK METASEDIMENTARY UNITS of to 95' I dark sitistone unit, with some light bonding, with medium sey layers the unit is slightly.		5	0	1'	errotis hoviscris(mine phase atai)	₹.5		81	100	0	52151	.01	.00[	.02	1			A CONTRACTOR OF THE PERSON OF
alcareous. The overall matrix . Fine grained.	O°tu So° med	95	0°4.50°	t,",1	at e	4.5	- diss by shroughout unit - some only layering serving ports of the section therefore, unit breaks along gyptom shears in some areas - postable foult going 951	.]	100	10	ς:752	.01	,00J	.01	2			
AFIC LIDE TE UNITEROLOGICO DO COMPOSITIO CONTROL DISTRICT MATERIALS AND MATERIALS AND A CONTROL CONTRO	ND	2 100	30°	17. 17. 17. 17. 17. 17. 17. 17. 17. 17.	etx-chi? etx-carb	۷.5	in 100° - make Diorine unit has callingly less its in	187	100	17	57775	.01	.001	.03	2			

Hole No. 94-5 Page 2 of GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Structure Width Est. Escionac Coro 9/1 Footage Leachable Ox. Foliation angle and intensity (veins) R.Q.D. % ppb Mineralization ' Blocks Recovery Sample ROCK TYPES and ALTERATION Lim. Zone < to core Structure Py Cu Number Grado axis (veins) Supergene Cu MoS2 Zn Ag Remarks contains phenouses of chlorite (altertion aroduct of homblerde). This wort has the unit is fairly soft ste-corb due to the high chi a calcareous matrix. The phenocryst content. 100 have a sushedral to euledral and weathy chloritized and 23 52754 .001 4.01 .01 .01 corbonaceous shears. are slubby shaped. 117 - hematite staining is quite evident in DIORITE UNIT: 1201 +0841' gtz - carb 100 900 This unit is a light grey and has the shears. a lighter overall color than the 40 4.5 52755 .01 1001 4.01 .01 Mafic Diorite because this unit] 127 contains more planicclose. But pherocryst of chlorite still "float" in a calcareous matrix. Laths - phenocrysts are stubby shope with 100 no preferred orientaling of biotite are now distinctly visible. The contact between 37 50756 1001 (.01 .01 1.5 .01 700 et 200 ist this unit and the Mark Diorile : unit is gradational. From 147 10 148 16 9tz.(car4) is alightly aftered band 100 or biorde. One can 52757 on well developed should 10. 4.5 001 .01 01 gl7 - lears note: this Diorite unit. has the highest selse 100 1 "11 gtz - (cars) component, so that the Diorite/Gabbio unit in Hole 94-2 is the 52758 10.2 100 10. .01 most masic and the Mofre Diarite unit this hole) is somewhere 100 of 7- comb intelucen. i 11 52759 ...01 .002 4.01 4.5 10.

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap · LOG Structure Width Est. Footage Leachable Ox. Polistion angle and intensity (veins) of-Core Recovery R.Q.D. % ppb Mineralization ROCK TYPES and ALTERATION Blocks Sample Lim. Zooq < to core Structure Cu Grado Py Number axis (veins) Supergene Cu MoS2 Zn Ag Remarks - diss py in small atz-carb quantities throughout 800 gtiz -carb The Unit. 100 ND 4.5 33 1.002 4.01 52760 .01 10. 177 from 1791 to 1921 there are fine grained : gt 2 -carb 76 4 100 and altered layers, 47 52/8/ 4.5 alternating with the Diorife unit. This alterd .01 10.2 100. layer is significantly. Chlorifized and breaks. well along chlorite shears. But nevertheless 95 these allered layers ... 10,1 100 10. 0 texture and can be inversepted of allered zones within the 100 Diorile uni 1 .. 70 52753 01 1001 4.01 evident .0 4.5 -fine lamelee of · leine) hematité con le seen in parts of the unit 98 felsic component in this unit. But all parts No eviden ,01 10.1 100. of this unit are st. Son Beauty mare Flore 217 110/2 than the other wherle units. 1,147,41 70° 99 5: 1.3 .01 .002 4.01

Mar.1992

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS GRAPHIC ASSAY RESULTS LOG Leach Cap . Structure Width Est. Leachable Ox. Footage (veins) Core of-% R.Q.D. Mineralization ' ррь ROCK TYPES and ALTERATION Blocks Sample Lim. Zong Ca Grade < to core Structure Py Number axis (veins) Supergene MoS2 Zn Ag Z Footage Remarks 70° tta -rarb 95 4.5 47 52755 10. 10.1 100. .01 ND 237 DIORITE/GABBRO ?: 241 +0384 hematite staining Similar to Diorite/Gabbo unit in the shear is in Hole 94-2, Flag content has: still evident in this esident dropped considerabley, making the overall color of this unit (ultra mafic ?) Diorite/ , ot 17 52767 .01 10,2 100. veints) 247 Gabbro unit. a darker grey than the overlying this unit and the Diorite unit. The contact between this unit and the Diorite unit the shears remain well chloritized therefore feel "Scapy" smooth and . 95 is gradational. The laths of have a shiny sheen. biotite are larger in this unit . 20 52768 .01 the core breaks 10.1 100. 401 than in the 94-2 unites. Crystal along chloritized hemotite graphitic outlines and shapes are nearly indisting a shuable. 93 10. × 100 1 10. .01 4.5 257 .01 .01 4.5 1001 4.01 37 6277 4.5 .01 1.001 1001 .01

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG Hole No. BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Width Structure Est. Footage Estimated Coro Leachable Ox. (veins) of % Py R.Q.D. % Mineralization ppb ROCK TYPES and ALTERATION Blocks Sample Cu Cu Grade Lim. Zone < to core Structure Number axis (veins) Supergene Cu MoS2 Zn Ag Remarks evident veints) .01 .001 4.01 17/52772 4.5 .01 IN 98 10. 1001 1001 .01 99 .01 10.4 100. 10. 4.5 gtz - carb 97 6-7-1000 beltter 33 52775 .01 4.5 10.2 100. .0 NO - some glz-carb filled fractures but Eviden 100 VEINE 63 52716 4.5 10.> 100. 10. .01 SENTERLY MISSIFF 100 1001 001 101 1.5 · CI Mar.1992

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GIBRALTAR MINES LIMITED DIAMOND DRILL LOG Hole No .. BOTTOM DEPTHS ASSAY RESULTS GRAPHIC Leach Cap . LOG Structure Width Est. 3/T Coso R.Q.D. Foliation angle and intensity Leachable Ox. (veins) of-Mineralization ' % % ppb ROCK TYPES and ALTERATION Blocks Sample Lim. Zono < to core Structure Py Ce Grado Number axis (veins) Supergene Ag Cu MoS2 Zn 2 Footage Remarks No evident JEING 100 NC 4.5 73 527/8 1001 .01 .31 357 100 4.5 52779 .01 100. .01 52736 .oi ,001 4.5 .0 MAFIC LIEDITE ON TERRETHER 94 Similar is dauties described rafic Library unit. The chlorite-400 €0" 4.5 5773/ phenoxing one readily Visible: 002 10. GREY- GREEN SILTSTONE HUMS. - the shoors of this Grey-Green sillstone etz. carb This unit appears a bid dock of the injury of the unit but becomes a lighter shade of armagican area by bottom. This unit unit are graphitic .002 .01 and are not heavily chlorifized like in gty. cort the Clorite/Kallula is Similar to the error green sills due and described in Hole Oling. Both units are unit. 124. 1000 20,76106 fairly pyritiferous with medium strained chanks of pyrite easily visible. 800 1 "x1 atz-corb. 52783 4.5 10, 600 2 10. 101 Mar.1992

Hole No. 94-5 Page 7 of GIBRALTAR MINES LIMITED DIAMOND DRILL LOG BOTTOM DEPTHS GRAPHIC ASSAY RESULTS LOG Leach Cap . Structure Width Est. oz/toa Leachable Ox. Footage Foliation angle and intensity (veins) Care of-% R.Q.D. Mineralization ppb ROCK TYPES and ALTERATION Blocks Sample Lim. Zong < to core Structure Py Number axis (veins) Supergene Cu MoS2 Zn Ag Z Footage Remarks there is poor bedding in this unit. . The contest between this unit and 400 atz-carb the Diorili/Gabbro unit is sharp 99 wk 4.5 43 motile) 52784 .01 10. 600. gt z. cars -01 417 TRANSITION ZONE \$4181 to 422! This is a highly graphite vone Du 771 gtz corb 92 (almost coal) that is slightly 0 50 57/35 10,>1100, argillacrous. Within this carbonacrus unit are layers and lenses of Grande Moudain 10. 427 Phose Guartz Diorite. 98 Cuident Winter 40 52734 1) 10, 100, 10, 10. 0 427 GRANITE MOUNTAIN PHASE - the gir has been 97 QUARTE CIORITE OUIT SONY, completely segregated In some spots leaving The main feature of this 27 52751 2.01 .001 <.01 41 not much core intact. unit is the segregated glz publish-44.1 or whole. gives this unit a rough or pitted : appearance fome of the at + is loosely comented and can the unit breaks along be picked away from the core. eldoridized benefits This unit generally on "ess while" April Cose Shapert 27 52783 4.01 .001 4.01 1 color but depending on the .01 - core is guile = rogin = 157 amount of chlorite or benefite in a sew upols due to content can appear light green the chlorite/tale or pink respectively. content. 95 52731 4.01 ,001 4.01 41 :01 0

: Mar.1992

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG Hole No. BOTTOM DEPTHS GRAPHIC ASSAY RESULTS Leach Cap '-LOG Structure Width Est. 9/T ez/ton Foliation angle and intensity Leachable Ox. (veins) of. Ctore % % R.Q.D. Mineralization ppb ROCK TYPES and ALTERATION Blocks Sample Estimat Ca Grade Lim, Zong < to core Structure Py axis Number (veins) Supergene Cu MoS2 Zn Ag Remarks - no diss py seen st all in this unit. 93 eviler. du <.01 .001 4.01 41 0 52790 yeins .01 96 0 52791 4.01 .001 4.01 41 -Qi 457 96 .01 .01 .001 (.01 0 427 90 0 .0: 4.01 12 10.2 100. 557 97 0 527 0 13 10.3 100. 10.2 .01 from 506' to 531' is a heavily be madile 25 core from this inform. Is an informe purple. 4,01 4,001 4,01 41 .01 red color.

GIBRALTAR MINES LIMITED DIAMOND DRILL LOG Hole No. BOTTOM DEPTHS ASSAY RESULTS GRAPHIC LOG Leach Cap . Width Structure Est. 9/T Corp Footage Leachable Ox. (veins) of % Mineralization ' % R.Q.D. % ppb ROCK TYPES and ALTERATION Blocks Sample Estimas Ca Grade Lim, Zone < to core | Structure Py Number axis (veins) Supergene Cu MoS2 Zn Ag & Footage Remarks - from 550 to 557' is a high resistant version of the Granite Mountain 96 Ob Jundani Phase. It is composed of interlocking large grains of at 2.450 this interval is digitive sausserfized. 12 10.2 100. NE 10 62796 10. -12 wire! 98 544 13 52797 :01 1001 4.01 41 0 ·O. 90 10 52798 0 12 10.2 100. 10. 557 557 557' EOH .