## ARIS SUMMARY SHEET

Off Confidential: 92.08.20 District Geologist, Prince George ASSESSMENT REPORT 21761 MINING DIVISION: Cariboo **PROPERTY:** ΤK LONG 122 20 00 LOCATION: LAT 52 32 30 UTM 10 5821277 545213 NTS 093B09W CAMP: 037 Gibraltar Area CLAIM(S): TK 1-2 Gibraltar Mines OPERATOR(S): Barker, G.E. 1991, 52 Pages AUTHOR(S): **REPORT YEAR:** COMMODITIES SEARCHED FOR: Zinc, Copper **KEYWORDS:** Triassic, Granite Mountain Pluton, Quartz diorites Mine phase quartz diorite, Chalcopyrite, Sphalerite WORK DONE: Drilling, Geochemical 546.8 m 2 hole(s);NQ DIAD SAMP 176 sample(s) ;CU,MO,ZN,AG 093B

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# DIAMOND DRILL REPORT

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# TK CLAIM GROUP

Cariboo Mining Division

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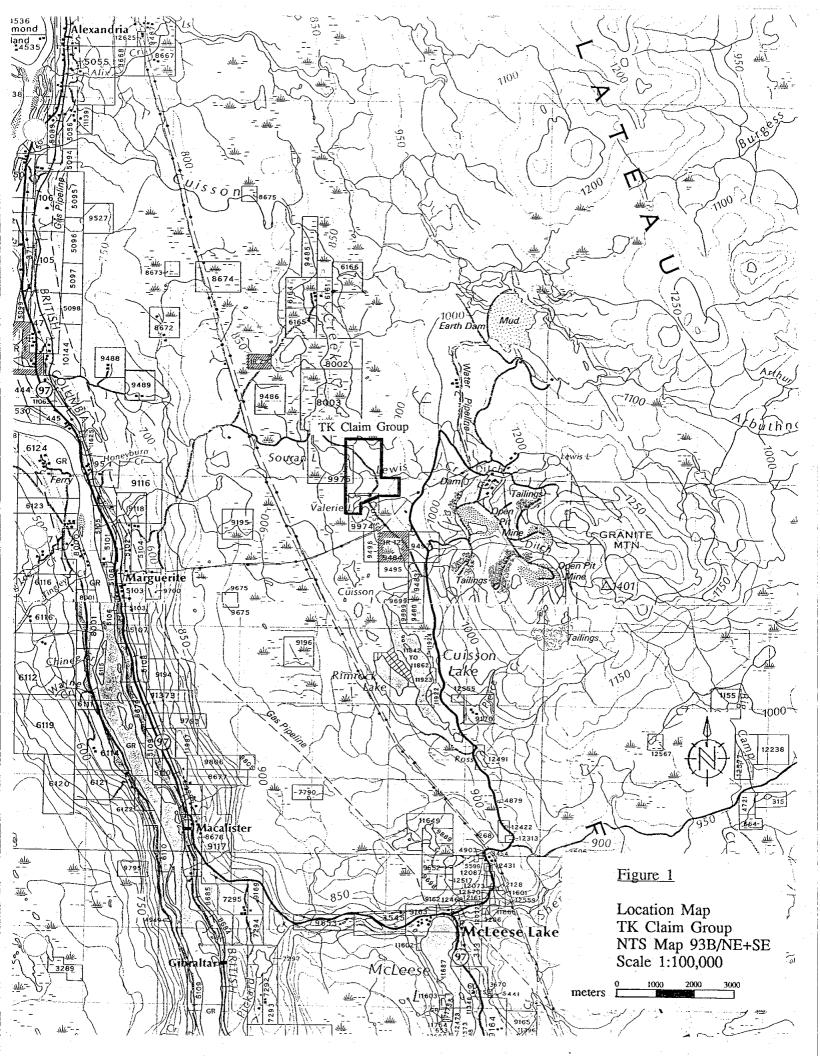
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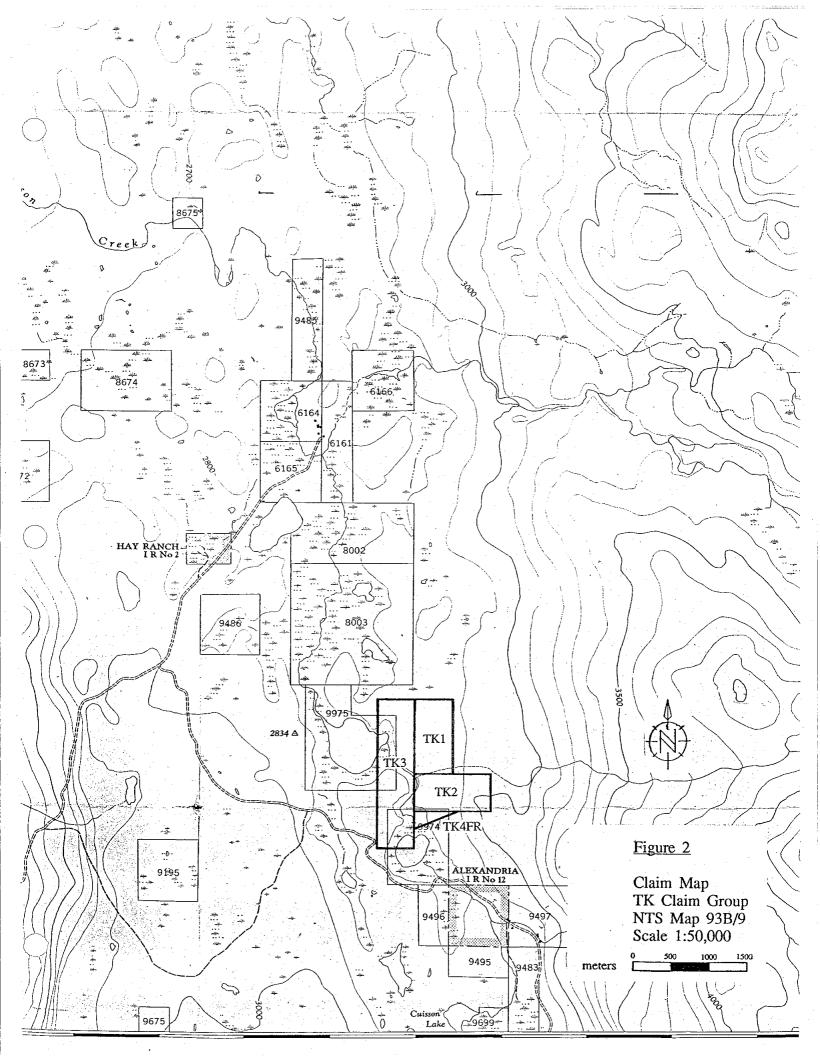
OWNER and OPERATOR Gibraltar Mines Limited P. O. Box 130 McLeese Lake, B. C. VOL 1P0

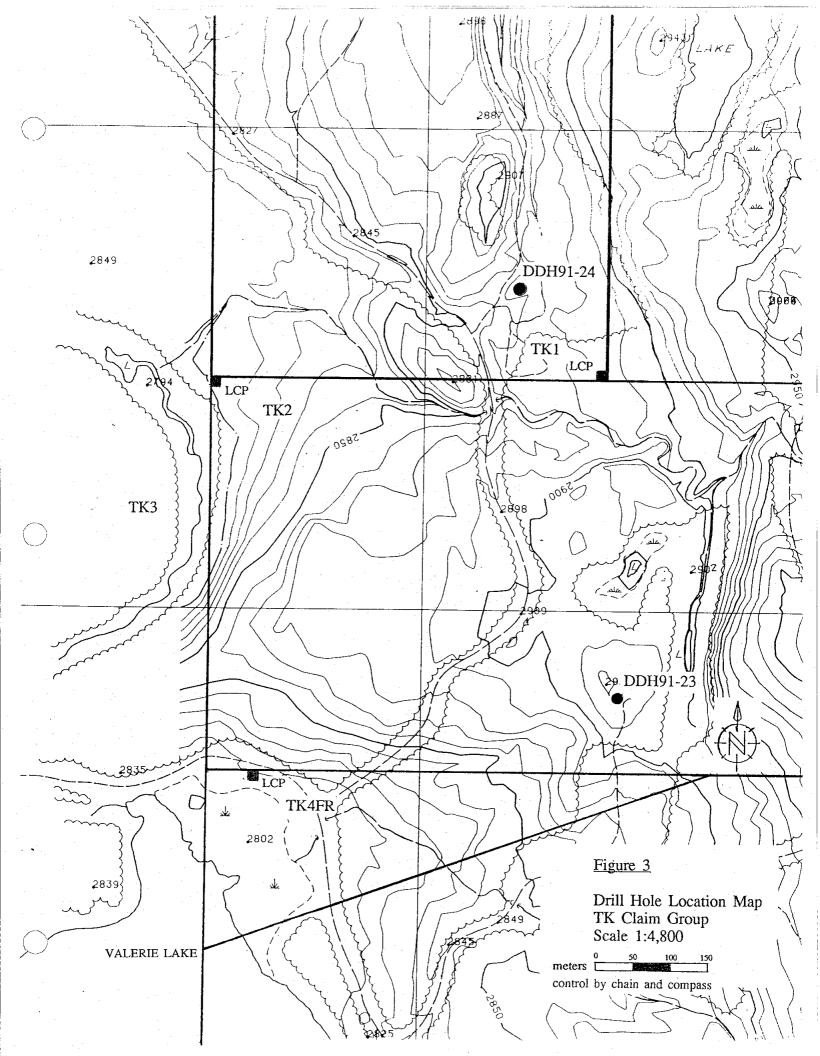
Author: G. E. Barker GEOLOGICAL BRANCH ASSESSMENT REPORT

# TABLE OF CONTENTS

1. INTRODUCTION	• • • • •	1
2. MINERAL CLAIMS	• • • • •	1
3. GENERAL GEOLOGY	• • • •	1
<ul><li>4.1 Objective</li></ul>	• • •	2 2 2 2
		2
6. CONCLUSIONS	• • • • •	3
LIST OF FIGURES		
Figure 1.TK Claim Group Location MapFigure 2.TK Claim Group Claim MapFigure 3.Drill Hole Location Map	(In Tex (In Tex (In Tex	kt)
APPENDICES		
APPENDIX A. Statement of Qualifications - G. E. Barker	• • • • •	4
APPENDIX C. Assay Sheets		6
	<ol> <li>MINERAL CLAIMS</li> <li>GENERAL GEOLOGY</li> <li>DRILL PROGRAM         <ul> <li>4.1 Objective</li> <li>4.2 Results</li> <li>4.3 Interpretation</li> </ul> </li> <li>STATEMENT OF EXPENDITURES</li> <li>CONCLUSIONS</li> <li>CONCLUSIONS</li> <li>LIST OF FIGURES</li> <li>Figure 1. TK Claim Group Location Map</li> <li>Figure 2. TK Claim Group Location Map</li> <li>Figure 3. Drill Hole Location Map</li> <li>APPENDICES</li> <li>APPENDIX A. Statement of Qualifications - G. E. Barker</li> <li>APPENDIX B. Drill Logs</li> </ol>	<ul> <li>MINERAL CLAIMS</li> <li>GENERAL GEOLOGY</li> <li>DRILL PROGRAM <ul> <li>4.1 Objective</li> <li>4.2 Results</li> <li>4.3 Interpretation</li> </ul> </li> <li>5. STATEMENT OF EXPENDITURES</li> <li>6. CONCLUSIONS</li> <li>LIST OF FIGURES</li> <li>Figure 1. TK Claim Group Location Map</li> <li>(In Texpretation Texperimentation of the provided o</li></ul>







# 1. INTRODUCTION

The TK Mineral Claim Group is located in the Cariboo Mining Division approximately 3.4 km. west of the Gibraltar Mines Concentrator (see Figure 1). The claims lie along the northwest flank of Granite Mountain at elevations between 850 and 935 meters. Access is via logging roads which link the property to the Gibraltar Mines paved access road.

All the claims of the TK Group were staked in 1990 to cover ground adjacent to the northwest side of the Gibraltar Mines Property.

This report covers a diamond drill program conducted in 1991 on the TK Claim Group. Two vertical NQ diamond drill holes (91-23 and 91-24) totaling 546.8 meters were completed. Drilling was done by L.D.S. Diamond Drilling Ltd. of Kamloops B.C. during the period June 2 to June 5, 1991. The whole core was assayed except for a three-inch segment per ten-foot section which was retained and stored at Gibraltar Mines.

## 2. MINERAL CLAIMS

The mineral claims of the TK Group are shown in Figure 2 and claim information is tabulated below.

MINERAL CLAIM	RECORD NO.	NO. OF UNITS	DATE OF RECORD
TK1	10790	2	August 23, 1990
TK2	10791	2	August 24, 1990
TK3	10845	4	September 12, 1990
TK4FR	10846	1	September 12, 1990

All claims are owned by Gibraltar Mines Limited.

### 3. GENERAL GEOLOGY

The TK Claims are located on the northwest flank of Granite Mountain. This area of moderate relief is a part of the Upper Triassic Granite Mountain Pluton. The pluton is divisible into at least three major phases. The first, refered to as the Granite Mountain Phase Quartz Diorite, forms the main body of the pluton and is readily recognized by a high quartz content (about 45%) and a fairly coarse grained texture. The second, called the Mine Phase Quartz Diorite, appears to form a shell about the Granite Mountain Phase and is characterized by normal quartz diorite composition with about 30% quartz. The third, refered to as the Border Phase Diorite, appears as a complex assimilative-type contact rock formed between the Mine Phase Quartz Diorite and the intruded Cache Creek Group rocks. All of these rocks have undergone pervasive saussuritization and chloritization.

The TK Claims are underlain by the Mine Phase Quartz Diorite of the Granite Mountain Pluton. This rock has undergone pronounced shearing deformation which has produced large shear zones, small shears, veins and various other dilatant structures. Sulfide and alteration mineralization correlates well with the deformation features and sulfide minerals such as pyrite, chalcopyrite, sphalerite and molybdenite are invariably associated with various combinations of quartz, chlorite, sericite, epidote and carbonate.

## 2. DRILL PROGRAM

### 4.1 Objective

The purpose of the drilling was to test for copper mineralization along the logical strike projection of the Gibraltar Mines ore zones.

# 4.2 Results

The drill hole locations are shown in Figure 3. Drill logs can be found in Appendix B and assay sheets in Appendix C.

Drill hole 91-23 was cased to 9.1 meters and drilled to 246 meters. The host rock throughout the hole was Mine Phase Quartz Diorite. No significant copper mineralization was encountered in this hole, however, a 76.2 meter zone of 0.59% zinc was intersected between 39.6 and 115.8 meters. The zinc mineralization (sphalerite) was associated with quartz-chlorite-sericite alteration.

Drill hole 91-24 was cased to 3 meters and drilled to 300.8 meters. The host rock throughout the hole was Mine Phase Quartz Diorite. Two small zones of copper mineralization, associated with quartz-chlorite-sericite-pyrite alteration, were encountered. The first was 9.2 meters of 0.45% copper between 237.7 and 246.9 meters. The second was 6.1 meters of 0.57% copper between 292.6 and 298.7 meters. A 61 meter zone of 0.68% zinc was intersected between 73.1 and 134.1 meters. This zone was very similar to the sphalerite mineralization encountered in drill hole 91-23.

### 4.3 Interpretation

Both drill holes encountered significant sulfide mineralization (pyrite, sphalerite and chalcopyrite) suggesting that the mineralized system containing the Gibraltar Mines ore zones extends to the TK claim group. Of particular interest are the large zinc zones found in both holes. These zones appear to support a sulfide zoning concept in which zinc mineralization tends to be concentrated in the outer and more cooler portions of the hydrothermal system. It would seem likely, therefore, that the TK claims over lie the outer fringes of the Gibraltar copper ore system.

## 5. STATEMENT OF EXPENDITURES

1991 Diamond Drill Program - TK Claim Group

1. Diamond Drilling Costs for Drill Holes 91-23 and 91-24 Drilled by L.D.S. Diamond Drilling of Kamloops B.C.

546.8 meters X \$35.97 per meter = \$19,668.00

TOTAL \$19,668.00

# 6. CONCLUSIONS

Futher work (geophysical and diamond drilling) is recommended within the general area around both drill sites.

artes 1 3

G. E. Barker Exploration 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:

- 1. I am a graduate of the University of Waterloo, Waterloo, Ontario, with a B.Sc. degree in General Science, 1985.
- 2. From 1978 to the present I have been engaged in mining and exploration geology in British Columbia.
- 3. I personally participated in the field work, logged the core and interpreted the results.

Leorge E Barker

George E. Barker

APPENDIX B. Drill logs

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LOCATIONGibraltar North	BEARING		LATITUI	DE .	= 53625 N	CC	RE SI	ZE _	NQ	LOG	GED E	3Y _G.	. E. Bar	ker
DATE COLLARED June 2, 1991	_ LENGTH	807	ft. LONGIT	UDE .	≈ 38820 E	_ SC	ALE (	DF LO	G <u>1" = 10</u>	L DAT	E	PTEM	BER 9,	1991
DATE COMPLETED June 3, 1991	DIP	-90	ELEVAT	ION .	≈ 2918 ft.	RE	MARK	S_G	od Zn	301	1e8	0'+0	400'	1997 - 19
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AND	CLUG F: I	of		%	LEACH LAP LIM. ZONE 40' SUPERGENE	Footage	Estimated Core	R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimated
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30% guart3 - mod Rx is wk to moderately sauceritized. Narious alt'n zones are noted on - ND graphic log . Wk. to Str sulphide to >	80? 6		99-brx 813-(carb). br-(hem)	¢0.5	ND= non directional - we = weak - mod = moderate str = strong - () = minor amount -	47	97		6177	•01	•002	·02	•02.6	•01
mineralization "py (sph) is found 40.60 ( mainly in alth. sones. The we ?	50 70-80 Z	н	8+3		(( )) = very minor amount									
hole appears to have been - drilled near a large fault. ND zones of increased gtz - > 30% are also noted 60-70 <			epi hem "staining"		a badly broken rock gg = gouge brx = broken rock hem = hemitite gtz = guartz	57	99	57	6178	·10	·003	•01	· 055	•01
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HOLE NO. <u>91-23</u> SHEET NO. <u>2</u> OF <u>14</u>

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HOLE NO. 91-23 SHEET NO. 7 OF 1

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ALTERATION		to B	Axis	Vein	Miner Unzu uori	Ру		6% ocks	Recovery	1.1.1.1.1	NUMBER	Cu	Мо	Zn	Ag	Cu
	• œ	α L				1.7	Remarks					Cu	MU		Au.	Grada
	wk	×	70	18	Py-sph	1		1			1997 (B. 1997) 1997 - 1997 (B. 1997)			1 . 1	.033	
·	60-70	k l							99			a sy R				
	+0	x 1				10:5		377		50-	6210	.03	1001	.56		101
[ ] = = = = = = = = = = = = = = = = = =	ND	8	2		stringy" epi		=					din di second				1
		K 380	. <u> </u>					1							[	<b></b>
	witz		i.					1	97						1030	
	60-70 70		M.		carb-brx (99)											
	str			ŀ. ·	1 is fair me	015		387		3	6211	101	001	-24		.01
	60-80	445 . E	40-8	2' 300 °	gtz-chl-Ger)-Py									an a		
		390		1011	99-brx.										1	
	wtz 60-80	<b>`</b>		18 Jone	99- <b>D</b> TX				99						.029	
	+0	<												100 A.		,01
	po	< R			stringy" epi	20.5	-	397		47	6212	.02	1001	•17		
		\$ 400							1							
	mod															
	60-80		60-80	2' zone	gtz-chl-(ser)-py-(sph)		이 이 가지 않는 것이 물		.98						.021	
	40	И				0.5.				13					5 - Sept.	
	NO	<b>)</b>				<i>.</i> .	-	407		13	6213	02	<u> &lt;.001</u>	·08		101
		2410													ta de la composición de la com	
		<u>, , , , , , , , , , , , , , , , , , , </u>							ł							
	ND	`,							99						.026	
1	+0 :				stringy epi	<0.5	_			53				.13		
	mod	1						417	]	55	6214	.02	2.001			10)
	50-60	420						e las		· · ·						
												···			~	
	mod			· .				1	99			. 1		· ·	1013	
in the second second second	40-50					20.5				23	6215		.001	.12		101
	1 <b>.</b>	l a k	40	, <b>.</b> .			이 있는 말한 부	427				·01				
<u>- ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ </u> - ^ ^ ^ ^		430			9's tearn											
				بالبرجي جريد	······································	سهمت مستعم		. <u>í</u>	L,		I			<u> </u>	f	

an a										·							
				an an an An Anna An An Anna An An Anna An									· ·		( , , , ,		
					G	IBRALTAR	MI	NES LIMITE	D				·			<u>91-23</u> D. <u>8</u>	
	ROCK TYPES	К Ц Ц	GRAPHIC	Veins	Width		Est	BOTTOM DEPTHS	_	Estimated			. A	SSAY	RESUL	TS	
in an Maria References de la composition References de la composition	AND	< TO CORE FOLIATION	RY type & Alth BY type & Alth Footogo Structure	1	of	Mineralization	%		Footoge	Core	R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimated
	ALTERATION	P P P	Rx fyp Foot Struc	Axis	Vein	Millerunzution	Ру	Remarks :	- Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	C u Grade
		17.0d 30-50		30	2"	9tz-(arb)	20.5		437	94	50	6216	.01	.001	.04	021	.01
			( 440 1										n Line and the second	-			
		mod				](hem) on fractures		-		98						1017	
		5+4 0 - 40		<u>.</u>		(FY)-chl-(ser)	0.5		447		27	6217	.01	.012	·02		101
			450		0 <b>0</b>			=								A Lord	· .
		mod 30-50				} hem on fractures				99						·022	a seren A seren
		+o	> - - -			epi "patches"	20.5		457		23	62 /8	.01	1001	,01		.01
	slight t in gt 3 {=	סא	460		·	er r											
	이 가슴이 있는 것이 가슴이 있었다. 이 가슴이 나는 것이 가슴 성상이 가슴	лл +0	7			ep;``pstches''				98				ur un ann. F		·023	
	실험은 가장에 있다는 것이다. 사람은 것이 가지 않는 것이 가지 않는 것이 가지 않는 것이다.	mod	<b>'</b>			(hem) on fractures	20.5		467		80	6219	101	.002	01		·0]
		30-40	470		3″ 3 <i>0</i> ne	gg - br.x (hom)											
	u filming an unit of the <u>-</u>	mod 40-50K	2		+"3one	gg-brx				97						023	
	vuggy core =	to mod					0,5		477		20	6220	<:01	.001	.01		101
		70-80	480	/	z" sone	gt3-chl-ser.carb-(py)											
012	ared and crenulated ] - chl - ser - (carb) alt'n, ] e is very soft and	str 11	String String		0'zone	gtz-chl-ser-carb-(Py)		core has a str. crenulated pattern of alternating dr. green		80		(				.034	• 0]
bre dol	ats easily into "silver- lar" like pieces		4-90		2	y , ,	0'5		487		3	6221	• 03 •	002	02		

 $O_{i}$ 

HOLE NO <u>91-23</u> SHEET NO <u>9</u> OF 14

ROCK TYPES	N N N	GRAPHI	d <sub>Veins</sub>	Width		Est	BOTTOM DEPTHS		Estimated			1	SSAY			_0F_ <u>14</u>
AND	< TO CORE FOLIATION	otage DOT	g < to Core	of	Mineralization	%	LIM. ZONE SUPERGENE	Footage	<b>I</b>	R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimote
ALTERATION	v G	Ritipe & , Footag	Axis	Vein		Ру	Remarks :	Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Grada
	str	2175	25-3448280											1.1	.026	
	80-90	125555	11.21.21.21.21.21.21.21.21.21.21.21.21.2	10'30ne	(gt3)- ch1 - ser - carb (p)	0.5		<u>-</u> - <u>497</u>	70	0	6222	1011 .	.001	.02		10]
		2 500			2 99 - brx			]								
	5H+ 80,90	1771							70						.026	
		25125 25222	ž	10' 30ne	(6+3)-chl-ser -carb (174)	0.5		507		7	6223	-01	· 001	·01		•0].
	str	2510														11 A.
	B0-90	1222		7' 30ne	otz-chl-ser-carb-(Py)				98						1026	
mod. vuqq y ness {-	+0 mod 60-80	12122				20.5		517		<i>11</i>	6224	<:01	·003	·02		•0]
	ND	520					•	]	ł						1019	
minor clay -	+0	) (		and the second second	otz-chl gg-brx + hem	<i>د</i> ه، ح		527	99	40	6225	•01	·001	.07		·01 .
	wkz 40-60	530						- 7 - 1								
	WR . 40-60	7			epi "streaks"				98						02/	
E	+• •	> 540 4		4 3one	gg-brx -ser - ((py))	20.5		537		17	6226	.01	.002	.05		•0]
	wk	>							98						·021	
	40-60	550	40-60	2'3one	gtz- chl-(ser) ((PY))-(sph)	0.5		547		27	6227	.02	• 00 1	•11		•02

HOLE NO. 91-23 SHEET NO. /0 OF 14

MIEL	)			
PTHS				
	Fordana	Estimated	SAMDIE	Ē

T		1	- <b>-</b>	·									SHE	EL NO	0. <u>/0</u> _	_OF_ <u>14</u>
ROCK TYPES	< TO CORE FOLIATION	GRAPH	IC Veins	Widt		Est	BOTTOM DEPTHS			]			ASSAY	RESUL	TS	
AND	NE	e LOG	e < to	1		1%	LIM ZONE	Footoge	Estimated		SAMPLE	%	70	%	oz/ton	Estimatod
	<u></u> <u></u>	type & Al	Core		Mineralization		SUPERGENE	Blocks	Core	R.Q.D.		I	^		<u> </u>	Cu
ALTERATION	VĽ	P.O.H.	Axis	Vein		Py	Remarks	Diocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Grade
	ND	k i i	*	8"3me	gg-brx-hem		-								1018	·
	+0	k .					-	1	94							
1 in epi 550' to 585' -	mod	<u>ه</u>	11/10			0.5		557	27	3	6228	.01	.004	101		101
	60-80		60-80	5'zone	gtz-chl-ser.epi (174)											
		<u>(</u> 560		2' 30ne	J 99-brx-hem											
[14] - 김 씨가 감독 영화 가지 않고 두 두	med	8			gt 3-chl - ser-epi (PY))			1	98						.019	
	60-80	1	A .	8.30m	Q: 3-Citi 2-	20.5		1		3	6229	.01	.002	.02		101
		ě,	4			1.1		567	· · ·	J		.0,			19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -	14 1
		<u>&lt; 570</u>	4				• • • • • • • • • • • • • • • • • • •					1			- 1	<u> 19 19 1</u>
		2	AL AL	10" 30ne	33-prx				99						.014	
minor vuggyness _ 556'to 619' -	mod to str					0.5										101
	70-80		70-80	9 300 6	gtz-chl-ser-pi-(PY))		-	577		33	6230	101	.003	+01		
		580													n te de la	
Extra Dark (vuqay) chl rich zone-							_								.020	
mineralized with py-sph -(cp) = from 571 to 617'	mod +0 \$t+				LIN -LI Gov an Jow				99							
	70-80		70-80	10 3 one	(8+3)-chl-(8er)-epi-(PY) ((6ph))-(ep)	1.0		587		33	6231	102	.001	-02		.05
									·							
		590							ł			· · · · · ·				
이 옷을 가 있는 것이 있는 것이 같이 많이 없다.	mod to						<b></b>		99						1034	
	str		70-80	10'zone	(ata)-chl-(ser)-py-sph	1.5				40	6232	.04	1002	.79		.08
	70-80				(CP)			597			· · · ·				1997) 1997)	
	See.	\$600							ļ							
	*								100						.031	
	mod		70-80	10' 0	1) 11 (and average	1.5					(					.12
	544	0.11		in zone	(0t3)-ch1-(Ser)-py-sph 6pl			607		80	6233	·03	2:001	.21		•14 1. (14)
	10-80	610			C. C. Statistical and the second s							1.00				

										•						
	· · ·		 	G	IBRALTAR	MII	NES LIMITE	D		·		· • .			<u>91-23</u> 0. <u>//</u>	
ROCK TYPES	R N N N	GRAPH	<sup>IC</sup> Veins	Width		Est	BOTTOM DEPTHS		Estimater				ASSAY			
AND	< TO CORE FOLIATION	Footoge DO	e < to	of	Mineralization	%		Foologe	Core	R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimated
 ALTERATION	V L U	Ri typ Foot	Axis	Vein		Ру		Błocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Cu Grade
	mod		11110					-						1	.039	
	10-80		10-80	9'30ne	gtz-chl-py-sph-cp	1.5		- 617	100	63_	6234	.07	.001	.10		.20
		620	11111													
	mod								100						.024	
	60-70		<b>1</b>	8'30ne	epi "patch" gtz-chl - (py) - (sph))	0.5		627	,	70	6235	. 01	4.001	.02		.05
		630	ŝ					<u> </u>								
	mod	ζ,	60	<b>1<sup>14</sup> - 12</b> 121 - 122	chl (massiur)			Ę	94						. 018	
	50-60	· · · · · · · · · · · · · · · · · · ·				20.5		]		3	6236	•01	.001	101		+01
wk to mod clay {= alt'in.		>640		7"3me	99- brx			<u>637</u>								
	ωĸ	~		-			-	1	89			•			·012	
	+0 mod 60-70	< >				2005				3	6237	·01	.001	2.01		•0j .
(=		650		10" Zorne	(qq) - brx -(hem)			647				0.				
	whe			5" zone	gg-brx-hem			1	94						.014	
같은 가는 것이 없어요. 25 전 가지 않는 	mod	, ,			epi "patch"	20.5			17	43	6238	.01	1002	4.01		-01
	60-70 (	660						657						<u>`                                    </u>		
(	wk +0						sph and py are in _	-	99	-					.026	
minor vuqqyness	mod 50-70	11 CUMP	50-70	6'zone	gtz-chl- py-sph-((cp))	jio.	vuqqy viens			37	6239	03	.005	.20		·15
	50-1	670			hem "staining"			667					.005	·38		

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HOLE NO. <u>91-23</u> SHEET NO. /2 OF

<b>b</b>	· · · · ·			<u> </u>			NES LIMITEL	ر 	· .						). 12	
ROCK TYPES	N N N N N	GRAPH	Veins	Width		Est	BOTTOM DEPTHS LEACH CAP		Estimated			A	SSAY	RESUL	TS	
AND	< TO CORE FOLIATION	Rx type & Alla Footoge OC	er < to Core Axis	of	Mineralization	%	LIM. ZONE SUPERGENE	Footage	1.1.1.1.1	R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimoted
ALTERATION	, О К	Rx ty Foo	Axis	Vein		Ру	Remarks :	Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Cu Grode
	WR 60-70 +0 ND		65	1"	8 <i>†</i> 3	20.5		677	99	53	6240	.01	.003	-01	,014	·0)
	WZ 60-70 +0 NO	> <u>680</u> < >	110.	3'3one	σtз-chl-(εрі)-((рч))	2015		687	100	63	6241	•01	·001	•0]	•014	,0]
	WR 60-70 +8 ND	> <u>690</u> < ; ; ;				20.5		697	100	63	6242	,0]	·003	<u>ر، ہ</u> ا	•015	+0]
	40 40 40 40	> 700 < < < 7/0		)	}(hern) on fractures 8t3-chl-(3er)-((PY))	2:0:5		<u>707</u>	100	57	6243	. 0)	.006	< 10]	·017	•0]
	60-70 WZ 50-70	<pre>&gt; 770 </pre>	113111111	уz"		20.5		7/7	100	70	6244	·03	,003	< '01	·021	,01
	wkz +0 mod 40-60	< < < > 730			epi "potch" them:"staining"	2015		727	<b>99</b>	60	6245	.01	1001	· [	·015	• 0)

	×			G	IBRALTAR	MIN	IES LIMITE	D	-						<u>91-23</u>	OF_14_
ROCK TYPES	ш К И	GRAPHI	Veins	Width		Est	BOTTOM DEPTHS		1				ASSAY			
AND	< TO CORE FOLIATION	Do to se Alfa	e < to	of		%	LEACH CAP LIM. ZONE SUPERGENE	Footogo	Estimated	R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimated
ALTERATION	F0 F0 F	Rx type & Al Footoge	Core Axis	Vein	Mineralization	Ру	Remarks :	- Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Cu
	wiz +0 mod 50-70	< < 740	70	4" 4' zone	massiu <del>a</del> gtz-chi gtz-chi-py-(sph)-(cp))	0.5		737	99	47	6246	102	. 00/	.03	.025	•04
minor vuqqyhess -	włz to mod	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				20.5		- - - - 7 <u>4</u> 7	98	27	6247	•01	,002	.01	•014	-02
↑ in epi {	60-70	750	60-70	} 4 1/2' zone	gt3-chl-epi ((py))			1							$\frac{1}{2} \frac{1}{2} \frac{1}$	
	wk 60-70			J		<0.2		757	99	40	6248	•01	.003	•04	·017	-01
		¢ 760	70 ?	7"	gtz-epi-(chi)			1								
	wtz mod 50-70	> < > 770	50-70	2°3071e	@t3-cht-(ру)-(sph)-(sp) epi - pie"patch"	0.5.		767	100	83	6249	•03	• 00]	÷ō	·024	•08
fine grained "dikelike" {- 30ne - grain size = 116"	٩ų	780			massive gtz-chl-epi 8tz-chl-carb -(cp)	2015		777	/00	87	6250	101	+∞2	• 03	·020	•03
	ND 40 WZ 70-80	> 110401 · 1790		/2". 2' 30n e	873 873-ch1-((py))	(0.5		787	100	57	6251	<:01	1001	<b>۲</b> ,01	.015	•01

HOLE NO. 91-23

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SHEET NO. 14 OF 14 Rx type & Allin. Footogs OOT Structure < TO CORE FOLIATION BOTTOM DEPTHS ASSAY RESULTS Est ROCK TYPES Veins Width LEACH CAP Estimat < to % AND LIM. ZONE SAMPLE % % % Foologo OZ/ton Estimated of R.Q.D. Core Core Mineralization SUPERGENE Cu ALTERATION Blocks Ag Axis Ру NUMBER Zn Vein Remarks : Cu Мо Recovery Grade Au small "patch" pie 014 ND 99 +0 8+3 20.5 80 Y2: :01 6252 57 2:01 002 11:01 ωŻ 797 50-70 800 otz ((carb)) 015 70 72 ND 100 +0 20.5 33 101 ·003 <·01 6253 -01 WE . 60-80 807 END; OF HOLE 807

				(	SIBR	ALTAR MIN	ES		AITED t surveyed				• •				91-24 1 OF	
	LOCATIONGibraltar Nor	th	B	EARING		LATITU	DE		55330 N	CC	RE S	IZE _	NQ	1.00	GFD	RY G	. E. Bar	rker
	DATE COLLARED June 3,	1991		ENGTH_	987	ft. LONGIT	UDE	≈ ;	38380 E	50	ALE		)G $1'' = 1$					
	DATE COMPLETED	5, 1991	D	IP	-90			·	2871 ft.		MARK	e - 199	, <u> </u>	- DA		<i>F                                  </i>	<u>···</u> , ··	
ł		ιω			1		Est		ottom depths			<u> </u>				· · · · · · · · · · · · · · · · · · ·		
	ROCK TYPES	CORE	SLOG	veins	s Width			LEAC	H CAP		Estimato	<b>1</b>		<u> </u>	ASSAY	RESUL	TS	
	AND	NO	type & All otogo	e < to	of	. Mineralization	%		ZONE ZO'	Footage.	Core	R.Q.D.	SAMPLE	. %	%	%	oz/ton	Estimoted
	ALTERATION	<ul><li>TO</li><li>FOLIA</li></ul>	Rx type Foot	t Core	Vein	Mineralization	Ру		Remarks :	Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Cu Grodo
	이 같은 일이는 것은 같은 같은 것	4								1							1	
	CASING TO 10'								, i i i i i i i i i i i i i i i i i i i					· · ·				
										]		l ·						
L			10						·	10			<b>.</b>					
	MINE PHASE QUARTZ DIORITE		K,	1		minor limonite + mnoz down to zo'							1.1				012	
	50 % plagio clase Feldspar	wk	k i	<u>î la san san san san san san san san san sa</u>					성장에서 가격 프 1987년 - 1987년 프		85							
	20% matics "chlorite"	40-50	2				20.5		weak =	17	Ų,	27.	6254	101	.002	105		.01
	30% guartz	-	20						dly broken rock =									
	Rock is moderately		k C				-	alt'n =	alteration -	1								<b>—</b> ——]
	sauceritized. With various alt'n. zones noted	- WR +0	<b>k</b> 1 - 1						epidote =		99						'036	
	on the graphic log.	mod	7	2			60.5	CD =	chalcopyrite -			73	6255	103	<.001	106		.01
	on the graphic log. Sulphide minerali sation	50-70	K I	50	78"	ері		ALL Z	quarts	27								
$\left  \right $	is found mainly in the - altin zones and consists -		/ <u>30</u> (					PY =	garnets -									21 - 21 - 21 - 21 - 21 - 21 - 21 - 21 -
	of py-sph-(op)	mod	2					97 -	garners -		100						.021	
	grain size 132 - 18" ave = 110" -	50-70	ζ.	\$ 50-70	7" 30ne	8+3-chl-py-sph-gf	0.5					63	6256	+01	1002	12		.02
	normal Mine Phase Q.D (generally barren)		٤	\$ 60-70	6"30ne	8+3-ch1-(pv)-(sph)		() = 15	ninor amount	37			0236	1.07	.002	•/3		.02
ľ			40								ļ							
	Chlorite darkened Mine - Phase Q. D.	mod	>	N .						· .	99						022	
4	Dark chlorite-sericite		<				1				11		6257					.01
	ast two zones generally -	60-80	2				20.5		4	47		60	6257	:02	.001	·02		
	mineralized.		> 50				1.25.1											

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				G	IBRALTAR	MIN	NES LIMITER	)	* *		· · ·	•			<u>91-2</u>	4 0F17
ROCK TYPES	N N	GRAPH	Veins	Width		Est	BOTTOM DEPTHS		Estimated				ASSAY	1		
AND	< TO CORE FOLIATION	type & Alln.	e < to Core	of	Mineralization	%	LIM. ZONE SUPERGENE	Footope		R.Q.D.	SAMPLE	. %	%	%	oz/ton	Estimated
ALTERATION	₽	RX tyr	Axis	Vein		Py	Remarks :	Blocks	Recovery		NUMBER	Cu	Mo	Zn	Ag Au	Cu Grada
	mod 60-80	· · · · · · · · · · · · · · · · · · ·	1000-80 70	5'3 <i>o</i> ne V4"	gtz-chl-ser-py-sph pie	1.5	Ser = sericite pie = piedmontite	57	98	50	6258	.03	.001	·38	,046	.02
	wk to mod		60-80	10'zone	gt3-chl-ser(py) (sph)-epi	110	99= 9°"9¢		90	10	6259	.02	.001	.04	.013	
	60-80	70		1/2' 30ne	9g -		brx = broken rock -	67			<u> </u>					_
	mod 70-80			8"3me 10'3one	9g-brx gfg-chl-ser-(py)-(sph)	1.0		77	97	7	6260	•03	.002	,20	·03Z	•01
		80											- 			
miñor vuggyness	mod 70-80		70-80	711' zone	gt3-ch1-ser-py-(sph)	1.5		87	92	10	6261	•02	.001	129	·033	•0]
		90											si 		.026	
	wk mod 70-80	× 1				1.0		97	7.7	60	62.62	•01	1001	•14		.01
		100	70-80	5'zone	g+3-ch1-(ser)-(py)-(sph)-pie											
	wtz to	×				0.5	carb- carbonate		100	60	12/7	01	1001	•15	.025	.01
E	mod 70-80	, , , , , , , , , , , , , , , , , , , ,	80 1 70-80 1	Sec. 16	otz-chl-carb otz-chl-(ser)-py-sph			107		50	62.63					

			•											•			
. 1			· · ·			BRALTAR	MII	VES LIMITE	D							. <u>91-2</u> 0. <u>3</u>	
	ROCK TYPES	КZ Ш	GRAPH	Id Veins	Widt		Est	BOTTOM DEPTHS	1 🖓	Estimated				ASSAY	RESUL	.TS	
	AND	< TO CORE FOLIATION	Rx type & Alla Footoge DO	1 .		Mineralization	%		Footage		R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimated
-	ALTERATION	v۲ ۲	Froot	e < to Core Axis	Vein	a da anti-arresta da seria de la composición de la composición de la composición de la composición de la compo Este de la composición	Ру	Remarks	Blocks	Recovery		NUMBER	Си	Мо	Zn	Ag Au	C u. Grodo
		ωż	>	2 70-80	1' 3one	sta-chi- py - sph - pie		1 = increase		100						.018	
	Q.D has a "fresher" look; chl - often looks black, possible tin -	70-80 +0	K 				20.5	ND= non directional -	117	100	100	6264	.01	2.001	.03		, 101
	8tz., grain size slightly larger- 111' to. 166'	WD WZ	> 120	<b>4</b> ?	2"	et3										1023	
		70-80 +0	) (	370	¥2×5	gtz-chl-py-sph	0.5			100	73	6265					
		ND .	( ) 130						127		/3	6260	•01	(100)	104		•01
		NĐ	$\langle \rangle$	£.	μ.	"coarse" SW gt3+chl-carb		Sw= stock work -		100						.032	
		to Wz		60-80	11/2 30ne	8t3-ch1- py-sph-((cp))	0:5	(( )) = very minor amount	137	,	83	6266	102	.004	.15		105
	<u> </u>	to mod 60-80	7 140	= 75 60	Y2"×2 Yz	8+3 epi			<u> </u>								
		wk		60-70	3" 307 e	gt3-chl-(ser)-py-sph				100			-			1019	
		60-80	/ / /				<0'5		<i>j</i> 47		67	6267	101	·002	.06		•01
			> 150		2"" "patch"	epi				ļ		en de . Nord				.015	
		םא א	,	?	172"		2015			95	77	1210				013	•01
		e e e	> 7 160		3" patch"	g <sup>†</sup> 3 epi	~0'0		157			6268	<·01	·002	2.01		-,
		NDK	×					-		100						.023	
		+0 50-70			4" zone	qtz-ch) -(ser) (py)-sph-po	0.5		167		87	6269	• <b>0,1</b> 	1001	.12		• 01

Shideses.

		2.4		G	IBRALIAR	MIN	VES LIMITE	D	· ·	•				LE NO. EET NO		
ROCK TYPES	N N N	GRAPHI	IC Veins	Width		Est	BOTTOM DEPTHS		Estimoted			Ā		RESUL		<u> </u>
AND	< TO CORE FOLIATION	GRAPHI LOG	e < to	of	Mineralization	%	LIM. ZONE SUPERGENE	Footage		R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimated
ALTERATION	∧ <sub>G</sub>	RX IN	Axis	Vein	minerolization	Ру	Remarks	Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	C u Grade
	wE 60-80	<pre></pre>		5" zone 3' 3/4"	8ts-ch1-(94)-59h 9ts-epi 8t3	20:5		177	99	90	6270	+01	1001	•13	·02.7	
	włz 60-8°		10-80	2 3010	gt3-chi-py-sph-pie	0.5		187	100	100	627/	( اەن ک	2.00j	.01	020	· 0j
	wiz 60-80			3" 3me 2"	(99) - brx -hem massive chl +8tz	<0·5	hem = hemitite	197	100	70	6272	•01	.002	·02	i026	•01
leucocratic zone (-	ND +0 60 70	> 200		6'30ne	8 <sup>4</sup> 3- corb - (epi) ((chi)) ((pri)	<0·5		207	100	57	6273	2.01	.001	107	•020	•01
	wtz <	> 220	1	Y4"×4 3" 30ne	epi - pi Gtz-chl-(pu) -((=ph))	2015		217	100	50	6274	•01	·∞1	•01	,023	•0)
	wtz +0 +0 ND	, 230	7 <b>0-8</b> 0  4	4" zone (	gtz-chl-py (sph)-pie	<b>6</b> .5		227	100	67	6275	.01	.001	.08	017	•0)

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CIDDAL TAD MINICO I HATTE HOLE NO 01\_24

SHEET NO. 5 OF 17 < TO CORE FOLIATION Rx type & Alfin Footoge OTH Structure BOTTOM DEPTHS ROCK TYPES Est ASSAY RESULTS Veins ÷. Width LEACH CAP -ctim < to % AND LIM. ZONE SAMPLE % % Footage % of OZ/ton Estimated R.Q.D. Core Core Mineralization SUPERGENE ALTERATION Cu 6locks Ag Au Axis Vein Py NUMBER Zn Cu Remarks : Recovery Mo Grade ND 021 3" 873 +0 99 0.5 83 101 6276 101 1001 .18 chl 237 mod 60-80 gtz-chl-(ser) - py-(sph) 60-80 1-4 3me sar :023 100 wite +0. 93 1.5 6277 02 .003 mod :01 27 61/2 zone gtz-chl-py-(sph)-pie 247 50-70 50-70 . . 250 034 100 wk Thod \_ 10'zone gtz-chl-py-sph-(pie) 1.5 83 50-70 6278 02 .002 .03 ·30 50-70 2<u>57</u> 260 040 mod 100 77 80-70 30-70 10'some gtz-chl-py-sph-(ser) 2.0 6279 .03 .98 003 .oz 267 270 036 wtz. 100 40 10' 3one gt3-chl-py-(sph)-pie mod 70-80 1.5 90 6280 .01 ,02 1001 .32 2.77 70-80 280 str = strong 1023 mod to str. 100 10. 1.0 80 .002 .18 6281 .02 5' zone mod. crenulation 287 gtzchl -py-sph-pe 20-70 20-70

287 to 292'

HOLE NO. 91-24

1.28

		LIMITED
		1 11/11 11:13
0.0.0.0		

HOLE NO. <u>91-24</u> SHEET NO. <u>6 OF 17</u>

	ш Ш	GRAPHI	d	1	1	Est	BOTTOM DEPTHS		1 1 1	1	1		ASSAY			<u>0+_1/</u>
ROCK TYPES	< TO CORE FOLIATION	I = 1 OG	venis	Width		( · . · ·	LEACH CAP		Estimated	ı		· · ·	13341	RESUL	15	<b>T</b>
AND	N 10	Frantage	e < to	of		%	LIM. ZONE	Footogo	Core	R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimated
ALTERATION	F J	type	g Core		Mineralization		SUPERGENE	Blocks			NUMBER			· · · ·	Ag	Cu
	՝ Կ և,	Å H	Axis	Vein		Py	Remarks :		Recovery		NONDER	Cu	Mo	Zn	Au	Grade
1							-								.040	
	mod		20-70	612 zone	gtz-chl-py-sph				.99				1.1.1.	1.1		le se la
. 이번 이 아이는 것 같아요. 말하는 것 같아요.	20-70					2.5		297		73	6282	103	1001	1.30		8
		300		3 312 zone	massive at 3-ch/ (corb)-sph (PY)-((CP))								a at a			
				9	<u>(PY) - ((CP))</u>											<u> </u>
에는 소설을 가려면 사람이 있는 것이다.									99				le a l'hange		.030	a de la composición de la comp
	WR to		40-60	10'zone	gt3-chl- py-sph-pie-	2.0	-		11	77	6283	.02	.002	.60		.05
1 1	mod			5	(CP))		-	307			0203	102	002	1.90		
	40-60	310							н	$f_{\rm eff} = 1.5$						
				)		199	E Contraction of the second								.044	
	mod			1			_		99							
minor vuqqyness { ]	60-80		60-80	11 zone	gt3-chl-(ser)-py-sph-	15		317		43	6284	,03	1001	·79		.20
.E. (* 1997) - E. (* 1997) - E								511								
	k	320		<u> </u>		<u> </u>	]							1947 - 19 19		
	WRK	1 -							99			• • • •			<i>•036</i>	1997 - 1997 - 1997 - 1997 1997 -
eucocratic 37		<u>'</u>	60-90	7'zone	gt3-carb-(sph)-pie((py)) ((chi))	1.0				67	6285	.03	.001	.72		.10
30ne	60-80 K	1			([cni)			327	·		0200		1001	/-		-70
	1	330	60-70 7	2'zone	8+3-ch1-sph-py-(cp)	an di				- 1						
							-		Ī	N					070	
	wh	/			A diff only one loop				100			1.1.1.1			- · -	
[상태의 19] - 김희 영화의 영화 - 북동	to mod		40-70 4	ozone	gtz-chl. sph-py-(cp)	2.5	-	337		80	6286	,04	.003	1.41		.18
	to - 70 💡			in est		18 - La C	<b>-</b> +									
	—	340							- F	· · · · ·			[			
	wrk	′  - -				.			100				· · ·		046	
	b	/								~	(202		00	1.27		
E and the second se	60-7°					1.0		347		93	62.87	04		1.71		.05
	k	350	60-78 4	t'zone	gtz-chl-(sph)-py ((cp))		<u> </u>									

		···· /2															
															( <sup></sup> )		
		1			<u> </u>	BRALTAR		NES LIMITE	D	· · ·		<b>.</b>		SHE	ET N	0. <u>91-2</u> 0. <u>7</u>	
	ROCK TYPES AND	< TO CORE FOLIATION		<sup>IC</sup> Veins ខ្ល< to	Width of		Es	LEACH CAP	Footage	Estimated		SAMPLE	1	ASSAY	RESUL	1	Estimated
	ALTERATION	<ul><li>FoLIZ</li></ul>	Rx type & Alth. Footoge DOT	Axis	Vein	Mineralization	Ру	SUPERGENE Remorks :		Core Recovery	R.Q.D.	NUMBER	Cu	Мо	Zn	Ag Au	C u. Grade
		Fried 50-70		20-70	51/2 zone	qf3-chl-(ser)- py-sph	1.5		357	100	80	6288	10 10 10 10	.002	1.11	·088	,02
			360 X	60-70	2' 3one	gt3-ch)-(ser)-py-(sph) gt3										.028	
		ND +0 WZ 60-80	( ) () ()				20.5		367	100	90	6289	102	<i>.0</i> 02	•32	020	101
		mod 60-80 +0 ND	370	60-80	5'3me	gt3-chi-(s=r)-P4-sph- pie	1.0		377	100	83	6290	•02	,002	,52	·028	•02
•			<u>\$ 380</u>													+ 20	
		ND to mod 50 = 79		50-70	4' zone	ət3-chl-(ser)-py (sph)	110		387	100	70	6291	•04	·002	83	·038	·02
		mod 60-80	390				1.5			100					***	·026	
	minor vugayness	<b>p</b>	400						397		53	6292	.02	.002	•64		•01
	core is fairly soft and _		10000000000000000000000000000000000000	60-80	10'zone	8+z-ch1-ser-(corb)-(py) ((sph))	1.0	Crenulated core has a pattern of alternating dark green, creamy while and light yellowy orange bans	407	100 	87	6293	103 	1.001	.83	·033	,01

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GIBRALTAR	MINES	LIMITED

				G	IBRALTAR	MIN	NES LIMITED	)	•			•			91-2 0. <u> </u>	
ROCK TYPES	Ш Ш Ш	GRAPHI	d Veins	Width		Est	BOTTOM DEPTHS	· -					SSAY			<u> </u>
AND	< TO CORE FOLIATION	Rx type & Alla Footoge DOT	e < to Core	of	Mineralization	%	LEACH CAP LIM. ZONE SUPERGENE	Footage	Estimated Core	R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimotod
ALTERATION	v۳ ۲	4 KK 1/2	Axis	Vein		Ру	Remarks	Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Cu Grado
	mod -to 51-80		50-80	10' zone	8 <sup>1</sup> 3-chl-ser-(corb)-(pu) (sph)	1.0		417	100	77	6294	102	.001	,29	·029	. 0] .
	trod to str io-80	ALLONIA CLAINE MULLI	60-80	6'zone	99 - brx 973 -chl-ser-(carb)-(Pu) (sph) 973 -chl-(ser) - py-sph	1.0		427	100	77	6295	•02	.002	•67	•022	·02
	rnod stf 60-70	430 430 430 430 430 430 430 430			gtz-ch-(sen-py-sph- (EP))	0.5		137	100	43	6 2 9 6	•09	.001	,29	064	·08
	wte to str 35-70	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	35-70	2° 3074	gtz-chl-ser-karb)-(py)	2015		·47	100	63	6297	,01	001	·03	·016	•02
	mod +0 5tr 40-80	511111	40- <i>8</i> 0	0'zone	g t3-ch]-ser-kavb)-((pr))	0.5	f 1' zone with small tension gashes around cove	57	98	23	6298	<·01	,001	01	023	.01
	mad +0 ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++	1220000		2' zone 1/2' zone q	t3-chl-ser-(carb)-((py))	1:0	46		93	17 6	6299	.03	002		io34-	.02

-(ser) - Py

ch

nt 3.

60-80

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470

70-80

2'zone

HOLE NO. 91-24 SHEET NO. 9 OF 17

	L w	PO A DUIZ	1		<u> </u>	1-1	1		1		1				_	_OF_1/
ROCK TYPES	N N N	GRAPHIC	venis	Width		Est	BOTTOM DEPTHS		Estimated			A	SSAY	RESUL	TS	
AND	< TO CORE FOLIATION	Ra type & Allin. Footoge DT	< to Core Axis	of	Mineralization	%	LIM. ZONE SUPERGENE	Footage	- 11 A.	R.Q.D.	SAMPLE	%	%	%	oz/ton	l Estimate
ALTERATION	vײ ₽	RX 1 Fro	Axis	Vein		Ру	Remarks :	Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Cu
			60-80	5' zone	qfg-chl-(ser)-py-sph										021	1
la se a service se se la contra de la service de la se La service de la service de	10-80 40					0.5		4 7 7 7	94	7	6300	.01	1001	.41		.01
	AN	480		6" zone	39 - br×			477								
		< 7													1009	
	mod 60-80	<pre>K</pre>				(0.5			99		-		0.07	101		
		7		an Francisco Sector Sector				487		37	6301	·0]	,002	.07		10
		×490 ≀		2" 30ne	gg-prx	<u>.</u> 										
	mod to WE				1	205			100						<i>1</i> 007	
	co-80	<b>2</b> 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1						497		80	6302	(101	,003	,04	e e La constante La constante	101
		< 500														
	whe to mod	(]							99					et en set	710	
	60-80	( ) 				1.0		507		37	6303	.01	1001	.19		.01
		510	60-80	2 1/2 30ne	at 3-sec - (chi) - py - sph	h	Similar to the gts-	<u> </u>								
	ND						in GibN. except		100						031	
, 4, 1999 (1997) - 1999 <b>- 1</b>	to					<0·5	-This zone contains a 2" zone of massive			63	6304	.03	006			.01
	w 12 mod 30-70	7520	30-70 3	"zone 4	itz-chl-(py)		py-sph.	517			00-1		006	(0)		
-	wiz K								-						027	
	to k med								98			-				<u>.</u>
	30-70	1				0.5		527		57	6305 .	01	006	09		्•01 यहेव <i>्</i> वे
		530	30-70 12	l"zone (	8t3-ch1-(PY)											1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

<b></b>		and the second
GIBRALTAR	MANEC	
GIDRAL LAK	MUNES	

HOLE NO. 91-24

		ιw	-	und	1	1	1										_OF_17
	ROCK TYPES	< TO CORE FOLIATION	GRAP	S I venu			Est	BOTTOM DEPTHS	_	Estimated			· • •	SSAY	RESUL	TS	an de
	AND		Rx type & All Footoge	e < to Core كين Axis	of		1%	LIM. ZONE	Footage	1	1	SAMPLE	%	%	%	oz/ton	1 Estimated
	ALTERATION	6 H	Rx type & , Footoge	Gore	1	Mineralization		SUPERGENE	Blocks	Core	R.Q.D.			ļ	~		
		VE	ě ř	Axis	Vein		Ру	Remarks :		Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Grodo
	vuqqy } =			50-70	4' 300 e	ots-chl-(ser) - py-sph										.016	1
		wtz to				103 (Jer) [7 -)-1				100		an An Anna an An				016	
		mod 50-70	K				1.5		537		87	6306	.01	1001	.10		. 02
		50-10	× 540	70	2"	gt3-((carb))											
			and a state	100													
A Land Ma	$\sim$ -planet and the first state $\pm$	wł		70 - 80	51/2' 2000	Bt3-chl-((ser))-py-(sph)			]	100						.050	
		to mod	6			03 0 711 (17	2.0		547		77	6307	102	1003	.28		102
		70-80	Ž,	1	1/12"	.L. (. 1)											
			< 350	80		<u>19</u> 73-(carb)			1						[		
		mod		70-80	z +•3" x 4	massive gtz + chl-(carb)			]	100						'020	
	Ε,	70-80. +0	B)	- 10-90	10" zone	otz-chl-(py) massive ofz + chl+(corb)	10.5	-	1		97	6308					.01
	1 in epi { -	ND	>	Π	3	massive giz + chitleard			557			0.00	.01	100	2.01		
·			> 560														
	EV STATES	wk	K S	010	," •"	gtz-carb										018	
		+0	>	70-80	8"3000	gtz-chl- py -(sph)	0.5		1	99							l de la
	- 1999 - 1999 - 1999 - 199 <b>2</b>	10-80		70-80	6"3me		0'3		567		57	6309	101	1001	'OZ		. 01
	-		> 570		5 30%	gtz-chl -(ser) - py- sph											
		we	<pre></pre>				3.8 1			f						017	
		to,	ć							100						.017	
		70-80		2 70-80	8" zone	gtz-chl-ser-py-(sph)	0.5		577		70	6310 4	(10)	002	104		.01
		-+• ND	> 580	-		and a second			5//								
	-			-										[			
		wtz ,	2				•			99						023	
		to mod k	4	60-70	10" zone	8tz-chl-(ser)-py-6ph)	0.5	3			70	6311	01	002	.05		.0)
		50-70 (	590	70		carb - ((0tz))			587				-/				
. L			1240	1 1		caro = ((0,3))											

HOLE NO. <u>91-24</u> SHEET NO. <u>// OF 17</u>

	1 1.1	have			1	T	1	- <u>,                                     </u>	<u>.</u>		· · · · · · · · · · · · · · · · · · ·	·····				_OF_17
ROCK TYPES	l R Z	GRAPI	Vein	s   Widtl	<b>h</b>	Est	BOTTOM DEPTHS		Estimated			<u> </u>	ASSAY	RESUL	TS	+
AND	< TO CORE FOLIATION	LOG	e < to Core Axis	of		%	LIM. ZONE	Footage		R.Q.D.	SAMPLE	%	7.	%	oz/ton	Estimated
ALTERATION	F J	Rx type & Al Footage		Vein	Mineralization	Ру	SUPERGENE	- Blocks		11.0.0.	NUMBER				Ag	Cu
		Å F	6 AXIS	Veni	5	F y	Remarks		Recovery			Cu	Мо	Zn	Au .	Grade
	ωŁ		<b>^</b>		} (hem) on fractures			1							016	
	to	5	60	Y2" X Z	carb-(gtz)	20.5		]	: 99	67	6312			1.5.1		101
	50-70	× .						597		01.	0012	101	.002	102		1
	<u> </u>	600	<u>.</u>													
1월 25일 22일 22일 23일 24일 24일	wlz		60-80	31/2 3000	gtz-chl-(Py)-((sph))				100						.015	
	to	躑	70	Yz."	gtz-carb	0.5			,	e et e						.01
	60-80	5	Ar	16	epi "patch"			607		90	6313	101	.003	.12		
		2610					-									
		2 V					-								.013	
	wk 60-80	2 ·	270	Y2" X Z			=		100							
	ot en	ζ, ····		12 X Z	stz-carb-(sph)	<0.2	-	617		87	6314	·01	·001	4.01		•0)
	עק	× 620		. <mark>E</mark> n de la se			-									
		\$		1 2											·0/2	
		2	*		epi - pie "patches"				100							
6 26 to 683	ΝÞ	2				2.05		627		97	6315	101	1001	2.01		• 0)
Vingrain Size ave Yo" - core is very uniformin		630					¥ = decrease									
texture - quite barren - mafics are Fresh looking-			20	1907 - 1 <sup>12</sup>	8+3-carb- Py				- +							
no alth zones.	ND	2			913- Laro - FY				100						012	
	to WR					2015	-	637		97	6316	101	1001	2.01		.01
	70-80	640	T	78"	ep'		3			- 						
-			80	," ·	9t3	-+			F						011	
	WZ 20-80						-	e e t	100						011	
	+0 4					60.5		647		87	6317	01	001	(101		,01
	ND	\$650					1				지역					
· · · · · · · · · · · · · · · · · · ·	ľ	100-1	1	اا							<u> </u>					<u> </u>

HOLE NO. <u>91-24</u>

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HOLE NO. <u>91-24</u>

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ROCK TYPES	< TO CORE FOLIATION	GRAPH	Veins	Width		Est	BOTTOM DEPTHS					1. T.	ASSAY	RESUL	TS	
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mineral grains are	60-80					0.5				77	6329 .					101
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less distinct, epi and chl blend together togwe core a fairly uniform lightgreen cobr	;	770					1997 - 1997 - 199 <b>7</b> -									
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GIBRALTAR	MINES	LIMITED

HOLE NO. <u>91-24</u>

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	ROCK TYPES	R Z	GRAPI	<sup>IIC</sup> Vein	s Widtl		Est	BOTTOM DEPTHS					A	SSAY	RESUL	TS	a sur p
	AND	SE	ELUG	<u> १</u> < to			1%	LIM. ZONE	Footogo	Estimated	- <b>1</b> .	SAMPLE	or	1			1
		2₹	8 0 8 0	Core		Mineralization		SUPERGENE	-	Core	R.Q.D.	SAMPLE	%	.%	%	OZ/ton	Estimated
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			\$ 780	80	3 ''	8+3			4								
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	e tage a state de la set 🖬	50-70		50-70	9' 30ne	ot3-ch1-(ser)-py- (sph)-(gp)	1.5				17	6331	.16	.002	:06		.10
				in the second		(SPh)-(4P)			787								
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		otr						-			(1,1)					.065	
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		60-70	ζ					-	797								
		DA DA	800							1							
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	· 승규는 이 것 이 문화 문화 사람	mod to					7.0	그는 눈 성원이 같을	807		40	6333	.10	,006	.05		· 25
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			810						1	ļ				[			[
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m	Soft chlorite - clay -		1020	⊼  ▶	s"zone	99+ byx		FAULT ZONE -	] [	╞	<u> </u>			[			
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	a grey-green background	K			° 0°				827				101	002	•13		1.20
		50-60 L	830														
K		L	1	1	L				Lui L	<u> </u>			L		•		

HOLE NO. 91-24

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	ROCK TYPES	ВХ	GRAPH	IQ Veins	Width		Est	BOTTOM DEPTHS	1	Estimated	]		/	ASSAY	RESUL	TS	
	AND	85	Ę LOG	1			%	LIM. ZONE	Footage		1	SAMPLE	. 07	07	07		1.0
		2 <u>4</u>	40.56	Core	of	Mineralization		SUPERGENE	-	Core	R.Q.D.	SAMPLE	%	7%	%	oz/ton	1 Estimote
	ALTERATION	< TO CORE FOLIATION	Rx type & All Footoge	Core Axis	Vein		Рy	Remarks :	Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Grado
i da terr			4 ) }	40	1 <sup>11</sup>	st3			1	1.1.1.			[				+
- · ·		mod 'to		50-70	212 7000	gt3-chi-ser-py-sph-		1	1					1.	1. 1.	1034	
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HOLE NO. <u>91-24</u> SHEET NO. /6 OF 17

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ROCK TYPES	R Z	GRAPH	Veins	Width		Est	BOTTOM DEPTHS	<b>1</b>				1	ASSAY	RESUL	TS .	
AND	ŏ₽	ELUG	e < to			%	LIM. ZONE		Estimated	4	GUUDLE			T		T
1 Second States in the seco	2₹	°3 0° 9 0	Core	of	Mineralization	2.0	SUPERGENE	Footoge	Core	R.Q.D.	SAMPLE	%	%	%	Oz/ton	Estimated
ALTERATION	< TO CORE FOLIATION	Rx type & Alla Footoge OCT	Axis	Vein		Ру	Remarks :	Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Cer Grado
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	n pe	<b>X</b>	A)	4"30ne	99-6+x-hem	· · ·									1	
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		4 910	A											<b>.</b>		
•		>	<b>^</b>											-		<u> </u>
	wk	<	4	8" 30ne	99 - brx -(hem)		and a second		97	gati e e 🛔					.014	
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		>				20.5	_	917			6344	101	2.001	102		.01
		1920	70		gtz-(carb)		-	1. Tu								1. L
		>	1	4" 3001 E	gg-brx-(hem)				ł	<u> </u>						
1	wz								/98						.014	
	80-90	í l	<b>^</b>			20.5			- 1 a - [							.01
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		\$ 930		and a fair of		. E										
-	k						]									
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HOLE NO. <u>91-24</u> SHEET NO. <u>/7</u> OF <u>17</u>

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ROCK TYPES	RS 2	GRAPH	d Veins	Width		Est	BOTTOM DEPTHS		Estimated			A	SSAY	RESUL	TS	
AND	< TO CORE FOLIATION	Re type & Alla Footoge DOT	e < to	of	Mineralization	%	LIM. ZONE SUPERGENE	Footage		R.Q.D.	SAMPLE	%	%	%	oz/ton	Estimoted
ALTERATION	V L	Rx D	Axis	Vein		Ру	Remarks :	Blocks	Recovery		NUMBER	Cu	Мо	Zn	Ag Au	Cu. Grado
· 이미 · · · · · · · · · · · · · · · · · ·			70-80	2' 30ne	gtz-chi-py-(sph)-(ser)										1020	
	mod +0 WE 70-80	< ^ < ^ < ^			(hem) on fractures	0.5		957	99	53	6 348	.0Z	1001	. 01		.02
		1960	<u>^</u>													
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	to str 70-80	970	70-80	క'3రాండ	gt <sub>3</sub> -chl-ser-py-cp	2.0		967		50	6 349	• 32	. 001	:03		•20
	mad to Stt			II's me	gt3-chl-ser-py-cp	410			99.	23	6350				•137	. 45
	514 70-80	980			<b>b</b> .3 <b>cb</b> . <b>f</b> .7 <b>f</b> .	710		977		23	6330	·82	,002	•09		• • •
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## APPENDIX C. Assay Sheets

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### GIBRALTAR MINES LIMITED

### ASSAY CERTIFICATE

Lole 23 Exploration

Date ...

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Sample No.	% Ox. Cu.	Total Cu.	% MoS <sub>2</sub>	%Zn	Ag oz/ron	
6176 DD	H 91-23	.01	.002	,02	<b>, 023</b>	
77		, 61	.002	102	1026	
78		,10	-003	. 01	055	
19		<.01	.003	010	,028	
80		<.01	,003	,07	1022	
81		.01	.001	21	,033	на страница и страница При страница и страница При страница и страница
82		<b>, 0 (</b>	1002	.29	. 032	
83		101	100/	40	,031	
84-		1012	1002	12	. 033	
8,5		,01	,002	112	,035	
86		,02	200-	、57	.046	
80		(03	.001	(.80	1049	
<u>88</u>		<u>`0 </u>	.002	. 36	1024	
8)		101	.001	-31	.026	
0 90	Yan oo ahaa	,03	-601	.27	·6(12	
91.00		,06	.06)	1133	050	
92		.02	_061	. 30	. 132	
93	- Andrew	.07	1002	.52	1040	
Q4	the effect of the second	,02	. 60	. 64	.045	· · · · · · · · · · · · · · · · · · ·
6 S		<.01	001	.0.6	, 623	
96	le v	.03	. 60 /	-20	1034	
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	69.		and the second sec	· · · · · ·		
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Sample No.	% Ox. Cu.	Total Cu.	% MoS <sub>2</sub>	202n	Ag 3700	
6197 DDH	91-23	(03	,001	112	.030	
<u> </u>	1	,08	. 00	1.07	, 055	
99		102	- 001	.24	1027	
6200		.03	<.001		1024	
01	e de service de la construcción de	103	1002	+10	·027	
02		× 01	.002-	.05	.017	
03		101	.002	.03	1013	
04		.0[	.002	. 21	1025	
05		115	<.001	.47	1087	
06		. 19	.004	1.74	-110	
07		105	, 001	1,05	. 060	
08		101	. 00 (	.42	.02.7	
09		:02	. 007.	-24	.020	
10		.03	001	•56-	,033	
11		10	. 001	124	:030	
2		1025	. 001	17	,029	
13		102	2.001	08	. 021	
, L		. 02	1001	.13	.026	
15		. 01	,001	.12	.013	
16		.01	.001	, Ó¥	. 02/	
17		. 01	.012	.02	. 017	
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	1	1	· ·			
Sample No.	% Ox. Cu.	Total Cu.	% MoS <sub>2</sub>	% Zn	ez./T. Ag	
DPH	91-23					
6218			(eel		. 0 22	· · · · ·
-19		.01	002	.01	. 0 23	2
20		< <u>_</u> 01		. 91	.023	
21		.03		.02	.0.34	· · · · · ·
22		.01	. @6	.02	. 026	
23		.01		.01	. 026	
24		<-01			.026	
25		61			.019	de le ferre de Les
26		01	. 002	.05	.021	
27		.02			. 021	
28		. 01	_004	.01	.018	
29		اه.	.002	. 02	.019	· · ·
	470-14 W. / We	-01	.003	.01	.014	
31		.02		.02	. 020	
32	constant the second	. 04		. 79	.034	
33		.03	<u> </u>	.21	.031	
34		07		. 10	. 0 39	· · · · · · · · · · · · · · · · · · ·
- 35		.01	<-001	.02	.024	· · · · · · · · · · · · · · · · · · ·
36		.01	001	. 01	018	
37		.01	00	<.01	.012	
<u>3</u> 8		<u></u> 01	+ 002	<-01	. 0 14	
		.03	.005	. 38	.026	· · · ·
40		01	.003		. 014	<u>.</u>
41	a sa ang ang ang ang ang ang ang ang ang an	.01	<u></u> 00	, 01	. 014	
42		. 01	<u> </u>	<.01	.015	
43		. 01		<-01	.017	
<i>4</i> 4		.03	. 003	<.01	.021	· 
45	i v	.01	.601	<-01	.015	
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Sample No.	% Ox. Cu.	Total Cu.	% MoS <sub>2</sub>	do Zn	oz/T Ag	
DPH	91-23					
6246	· · · · · · · · · · · · · · · · · · ·	.02		.03	.025	
47		. 61	.002		.014	
48		.01	.003		.017	
49				,01	. 024	Notice constructions of the second
50		.01			. 020	
51		<.01		< . 01	. 015	
52		<.01	.002	د.0۱	.014	
53		۰٥١	.003	<.01	.015	
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Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	% Zn	02/tm Ag 1012	
62 54 DDH	91-24	.01	.002	1646	1012	
55		.03	< 1001	,06	. 036	
56		. 01	.002	.13	021	
57		, o Z	_001	.02	:022	
58		.03	1001	. 38	,046	
59		, oź	001	.04	1013	
60		.03	_002	.20	. 032	
61		201	_00	.29	033	
62		8	001		1026	
63		, 01	( OD )	15	,025	
64		. 61	C ,001	.03	.018	
65	:	,0(	(00)	,04	, 023	
66		.02	,004	,15	, 032	
67	مرد المرد المر المرد المرد الم	.01	,002	106	. 019	
0 68	uconte (1271)	<.01	_002	C.01	1015	
69	The manage	_ 01	1001	,12	023	
10	· · · · · · · · · · · · · · · · · · ·	<u>_01</u>	_001	.13	.027	
7.		c. 01	<.001		. 020	
72	la de la constante de la consta	्०।	,002	201	026	
73 74		<.01	.001	107	1020	
74	$\checkmark$	. 01	,00 (	.0(	. 023	
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Sample No.	% Ox. Cu.	Total Cu.	% MoS2	9.2n	02/TmAg	
6275 DDH	91-24	.01	, 001	,08	~017°	
76		.01	,00(	. 18	્દ્રો	
77		-01	.003	.27	1023	
18		.62	2002	.30	,034	
79		.03	.603	.98	.020	
éo		-01	,00 /	.32	.036	n an tha she an tha she an tha she an tha she and that she
81		. 01	1002	18	<i>1</i> 23	
62		103	.00(	1.30	<b>,04</b> 0	
83		.02	,002	,60	_030	
84		-03	, 50/	.79	.044	•
85	1	.03	,001	.72	. 036	
86		.04	1003	1.41	,670	
8) 88		104	001	1.27	1046	· · · · · · · · · · · · · · · · · · ·
88		.11	,002	1.11	. 688	
89		102	. 502	.32	.028	
20		.02	.002	.52	. 62.8	
91		.04	,002	. 63	+038	
92		102	,002	.64	.016	
58		.03	. 00(	.83	.033	
		.02	. 561	-29	. 029	
94 95		102	, 002	.67	.02	
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Sample No.	% Ox. Cu.	Total Cu.	% MoS <sub>2</sub>	% Zn	OZTIMAQ	
6296 DDI		.09	.001	- 29	.064	
79	)	.01	.001	.03	,016	
98		C.01	,001	,01	, 023	
99		.03	,002	.48	,034	the stage of the second
300		.01	,00(	.41	1021	
01		. 01	,002	,0(	,009	
62		<.01	.003	.04	1007	
63		, 01	1001	.19	.017	
04-		. 03	,006	١٥، ٢	1031	
65		. 01	.066	109	.027	
06		. 01	,061	.(0	.016	
0)		.02	,003	.28	,050	
ಂತ್ರಿ		. 0	, 601	2.01	,020	
09		. 01	100	.02	,018	
10		<.01	. 61 2	,04	,017	
<b>)</b>		. 01	.062	.05	.023	
12		, 01	.002	.02	,016	
13		, 01	603	.12	1015	
νý		. 01	· < 601	<.01	1013	
15		.01	.001	C.01	,012	
16		,01	_ 001	(. 61	1012	
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Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	Yozn	02/Ton Ag	А
6317	DDH 91-24	(61	1001	4.01	011	
18		102	,002	5,01	.011	
19		. 02	.004	2,01	01/	
20		. 01	. 001	6.01	1010	
2-1		, OZ	. 003	6,01	,020	
22		- 01	. 003	1.01	,016	
23		01	. 601	6.01	- 812	
24		<.01	1002	6,01	.017	
25		(01	(001	.14	.023	
26		. 01	1011	. 01	1022	
27		, 01	.003	٢,01	.017	
28		.01	1002	<.01	.018	
29		,01	1002	5,01 .02	L 01 [	
		. 01	.002	.02	.019	
30		. 16	, 002	106	.026	· · · · · ·
32		1.11	1002	.07	.065	_
33		. 10	,006	.05	.027	· · · · · · · · · · · · · · · · · · ·
34		, 07	.001	, 05	,051	
35		101	,002	113	-026	
36	Sector Sector	· 03	1001	. 22	.034	· · · · · · · · · · · · · · · · · · ·
37		104	,004	, 37	.036	
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Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	% Zn	02/Ton Ag	
6338	DDH 91-24	.12	,002	、07	, 692	
39	1	161	,002	.04	1020	
40		, 01	,001	.02	.027	
41		,01	(.001	6 ( <b>6</b>   6 (	1016	
42		-01	<.001	.01	.016	
43		, 0	5.601	.01	1007	
44		.01	2.001	102	1004	
45 4(	ribuas (m	.61	001	.02	. 604	
46		, 01	.007		.008	
4)		-01	.002	,05	. 026	
4-8		.02	.001	(01	1020	
49		.32	00/	,03	· 0 56	
49 50		· 82	502	.09	. 137	
5		,02	1001	110	.030	
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#### APPENDIX D. Analytical Methods

The core samples were analyzed at the Gibraltar Mines Assay Laboratory for molybdenum disulphide, copper, zinc, and silver. The following procedure was followed:

- 1. Samples were crushed and pulverized to -80 mesh, mixed and bagged.
- 2. 1 g. of sample was weighed out and placed in a beaker.
- 3. 30 ml. of concentrated nitric acid containing 5% potassium chlorate was added.
- 4. The sample was digested under heat until all brown fumes disappeared.
- 5. 20 ml. of concentrated hydrochloric acid was then added and the sample further digested under heat for three minutes.
- 6. 25 ml. of 1% aluminum chloride was added and the solution made up to 200 ml. with water, then filtered.
- 7. A 50 ml. sample was taken and the elements were determined using a Perkin-Elmer 3030 atomic absorption spectrometer.