[ARIS11A] *ARIS Summary Report*

Regional Geologist, Kamloops **Date Approved:** 1998.08.14 **Off Confidential:** 1999.06.0

ASSESSMENT REPORT: 25542 **Mining Division(s):** Cariboo

Property Name: GM

Location:

NAD 27	**Latitude:** 52 30 42	**Longitude:** 122 13 28	**UTM:**	10	5818015	552635
NAD 83	**Latitude:** 52 30 42	**Longitude:** 122 13 33	**UTM:**	10	5818231	552538
NTS:	093B09E 093B09W					

Camp: 036 Cariboo - Quesnel Belt

Claim(s): GM 50, GM 59, GM 61

Operator(s): Boliden Westmin Ltd., Boliden Westmin Ltd.
Author(s): Rydman, Murray O.

Report Year: 1998

No. of Pages: 101 Pages

Commodities Searched For: Copper, Molybdenum/Molybdenite

General Work Categories: DRIL, GEOC

Work Done:
Drilling
DIAD Diamond surface (5 hole(s);NQ) (982.6 m)
Geochemical
SAMP Sampling/assaying (314 sample(s);)
Elements Analyzed For : Copper, Molybdenum/Molybdenite, Iron

Keywords: Chalcopyrite, Granite Mountain Batholith, Molybdenite, Pyrite, Tonalites, Triassic, Trondhhjemites

Statement Nos.: 3119951, 3119953, 3120064

MINFILE Nos.: 093B 002

Related Reports: 23601, 24624, 25333, 25352

DIAMOND DRILL REPORT

on the

GM MINERAL CLAIM GROUP

Cariboo Mining Division

93B/9E and 9W

(Latitude 52°30', Longitude 122° 15')

boliden

OWNER and OPERATOR
Boliden Westmin Limited
Gibraltar Mine
P.O. Box 130
McLeese Lake, B.C.
V0L 1P0

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,542

Author: Murray Rydman

Date: June 1998

TABLE OF CONTENTS

1. INTRODUCTION

The GM Mineral Claim Group is located in the Cariboo Mining Division approximately twelve kilometres northeast of McLeese Lake, B.C. (see Figure 1). The claim group, which covers a significant portion of Granite Mountain, lies approximately three kilometres to the east of the Boliden Westmin Limited Gibraltar Mine plant site.

Access is via the Gibraltar Mine paved access road and a series of private mine haul roads which terminate near the western edge of the GM Mineral Claim Group. Old exploration roads give access to the drilling area.

Boliden Westmin Limited (formally Gibraltar Mines Limited) acquired the GM claims from Teck Corporation in the spring of 1994. The GUY 1 and GUY 2 mineral claims, located on the eastern edge of the GM claims, were then grouped with the GM claims to constitute the GM Mineral Claim Group. In June 1997 the claims GM 64, GM 75, GM 106 and GM 107 were formed into a mining lease for the Pollyanna Stage 4 Pit. During the summer of 1997 the GUY 3 claim was staked due to an induced polarization survey in the area. The mining lease and the GUY 3 claim were subsequently added to form the current GM Mineral Claim Group (see Figure 2).

Earlier work carried out on the property by the Keevil Mining Group in the late 1960's is covered in the following reports:

- *Geochemical Survey of a Portion of the GM Claim Mineral Group*; Chapman, Wood, and Griswold; November, 1965.
- *Geophysical Report of the GM Claim Mineral Group*; Chapman, Wood, and Griswold; March, 1967.
- *Geological Survey of a Portion of the GM Claim Mineral Group*; Chapman, Wood, and Griswold; November, 1967.
- *Granite Mountain Report on Diamond Drilling*; November, 1967.

Since 1967, minimal work has been applied by Teck Corporation to keep the claims in good standing.

This report covers a diamond drill program conducted between April 22 and April 28, 1998. Five vertical diamond drill holes totaling 982.6 metres (3224 feet) were completed by L.D.S. Diamond Drilling Ltd. of Kamloops, B.C. The whole core was asssayed except for a representative four inch segment taken every ten feet which was retained and stored at Gibraltar Mine. Holes were drilled on the GM 50, GM 59 and GM 61 mineral claims (see Figure 3).

2. MINERAL CLAIMS

The mineral claims and mining lease of the GM Mineral Claim Group are shown in Figure 2. All of the claims and the mining lease belong to Boliden Westmin Limited, except for GUY 1 which is under the Cuisson Lake Mines agreement. Information on the

mineral claims and mining lease included in the GM Mineral Claim Group is shown in Table 1.

NAME	TENURE #	UNITS	NAME	TENURE #	UNITS
GM 29	207610	1	GM 62	207629	1
GM 30	207611	1	GM 63	207630	1
GM 31	207612	1	GM 65	207632	1
GM 32	207613	1	GM 66	207633	1
GM 33	207614	1	GM 67	207634	1
GM 34	207615	1	GM 68	207635	1
GM 35	207616	1	GM 69	207636	1
GM 36	207617	1	GM 70	207637	1
GM 37	207618	1	GM 71	207638	1
GM 38	207619	1	GM 72	207639	1
GM 39	207320	1	GM 73	207640	1
GM 40	207621	1	GM 83	207642	1
GM 48	207748	1	GM 85	207643	1
GM 49	207622	1	GM 103	207660	1
GM 50	207623	1	GM 104	207661	1
GM 51	207624	1	GM 105	207662	1
GM 52	207625	1	GUY 1	205678	18
GM 59	207626	1	GUY 2	320893	20
GM 60	207627	1	GUY 3	358114	4
GM 61	207628	1	Lot 12991	352646	1
TOTAL NUMBER OF UNITS = 79					

Table 1
MINERAL CLAIMS AND MINING LEASE

3. TOPOGRAPHY AND GEOLOGY

The GM Mineral Claim Group covers the northern and eastern flank of Granite Mountain and extends just west of Pot Hole Lake. Relief is relatively gentle, with elevations ranging from 1250 to 1370 metres above sea level. Forest cover is generally moderate and outcrop exposure is moderate to excellent. The area also has a good network of drainage systems.

The geology of the Gibraltar porphyry copper deposit is thoroughly described in the following paper:

- *Porphyry Deposits of the Northwestern Cordillera of North America*; C.I.M. Special Volume 46, Paper No. 10; Bysouth, Campbell, Barker, Gagnier; 1995.

The claim group is underlain mainly by the Upper Triassic Granite Mountain Batholith. The Granite Mountain Batholith is a zoned, peraluminous, subalkaline body and can be subdivided into at least four phases. These phases are:

1. *Border Phase Diorite*

   This phase consists of a broad zone of assimilated and recrystallized rock formed between the mafic rich Cache Creek Group and the intrusive batholith. This hybrid zone incorporates a baffling array of intermediate rock types and rapid textural variations which closely reflect the country rock composition at its outer edge and that of the parent magma at its inner edge. Typical Border Phase Diorite consists of saussuritized plagioclase (45-50%), chloritized hornblende (35%) and fine grained quartz (≤15%). Textures are variable, with grain sizes of 1 to 5 mm. Mafic rich quartz diorites are also present and these are most prevalent near contacts with the Mine Phase Tonalite.

2. *Mine Phase Tonalite*

   Mine Phase Tonalite is the major host rock for the Gibraltar ore deposits. It has a relatively uniform mineralogical composition of saussuritized andesine plagioclase (50%), chlorite (20%) and quartz (30%). The chlorite appears to be derived from biotite and minor hornblende. Accessory minerals may include magnetite and rutile. Plagioclase is variously altered to albite-epidote-zoisite and muscovite. The rock is generally equigranular with a grain size of 2 to 4 mm. Rock fabrics range from isotropic to intensely schistose. In most cases the unmineralized rock is only weakly foliated and the degree of penetrative deformation increases proportionally with alteration.

3. *Granite Mountain Phase Trondhjemite*

   The trondhjemite consists of saussuritized plagioclase (45%), chloritized biotite (10%) and quartz (≥45%). Grain size is about 2 to 4 mm near contacts with the Mine Phase Tonalite but reaches 8 to 10 mm away from the contacts. The quartz commonly occurs as large grains or grain aggregates set in a finer grained, inequigranular matrix of quartz, plagioclase and minor chlorite. Foliation throughout the trondhjemite body tends to be weak or absent except along contacts with the Mine Phase or Leucocratic Phase.

4. *Leucocratic Phase*

   Associated with all ore grade mineralization are minor zones of fine grained rock classified as Leucocratic Phase due to a prevailing quartz-plagioclase composition and general lack of mafic minerals. The term is used to describe leucocratic, porphyritic quartz diorite as well as quartz porphyry and quartz plagioclase porphyry. In thin section, the quartz plagioclase porphyry has a fresh appearance with coarse quartz phenocrysts up to 8 mm in diameter and oligoclase phenocrysts up to 5 mm in diameter. The phenocrysts, which make up 50 to 60% of the rock are set in a fine grained quartz-plagioclase-sericite groundmass with a felsophyric texture that shows little sign of recrystallization.

4. DIAMOND DRILL PROGRAM

4.1 Objective

The purpose of the diamond drill program on the GM Claims was to test for copper mineralization in an area identified by strong geochemical and induced polarization anomalies.

4.2 Discussion

Rock and soil geochemical surveys were conducted throughout the GM Mineral Claim Group during the summers of 1995 and 1997. These programs were followed up, during the fall of 1997, with an induced polarization survey over an area lacking in historic geophysics data and showing a strong soil geochemical anomaly.

Whole rock analyses were performed on the rock samples to determine rock type and the ratio between Na_2O and K_2O. The rock type is a good indicator for potential copper mineralization. Tonalite is known to be the host rock for Gibraltar ore deposits and trondhjemite is typically barren. The ratio between Na_2O and K_2O is used to outline areas of potential ore grade mineralization. Ore assemblages are characterized by low Na_2O and high K_2O and waste material shows an inverse relationship. The majority of the rock samples tested were determined to be trondhjemite with a low potential for ore grade mineralization.

The data obtained from the soil geochemical survey indicated a large strongly anomalous Cu and MoS_2 zone located southeast of Pot Hole Lake. This area can be interpreted as a drainage basin with a source at a higher elevation further to the southeast. The anomaly reflects Cu and MoS_2 mobilized from its source and becoming concentrated in the swampy low-lying ground southeast of Pot Hole Lake. This is due to Cu and MoS_2 becoming immobile in organic-rich, waterlogged soils (a reducing environment).

The geophysics survey, conducted in the area of the high soil geochemical values, revealed two strong induced polarization anomalies. One anomaly is located to the east of Pothole Lake and the other is further to the southeast at a higher elevation. The southeast anomaly enforces the evidence given by the geochemical soil survey that there may be copper mineralization located to the southeast of Pot Hole Lake at a higher elevation.

After compiling and analyzing the data collected since 1995 a target area was determined. Accordingly, five vertical NQ diamond drill holes, totaling 982.6 metres (3224 feet), were drilled to test for copper mineralization.

4.3 Results

Granite Mountain Phase Trondhjemite was intersected by all of the drill holes. Drill hole 98-5 intersected several narrow intervals of the Leucocratic Phase. The

trondhjemite was observed to be variously altered with chlorite, sericite, epidote and carbonate. An oxide zone was encountered by drill holes 98-1 and 98-5 with significant amounts of malachite, azurite, cuprite, tenorite and limonite. A near surface supergene enrichment zone, consisting of chalcocite, was observed in drill holes 98-1, 98-4 and 98-5. All of the holes contain varying degrees of sulphide mineralization (pyrite, chalcopyrite, molybdenite) associated with quartz veins.

Four of the five drill holes encountered intersections of ore grade mineralization with a cutoff of 0.20 % TCu. A summary of drill hole results is given in Table 2. Detailed data can be found in Appendix B – Diamond Drill Logs.

			MINERALIZED INTERSECTIONS (cutoff 0.20 % TCu)						
DRILL HOLE	TOTAL DEPTH	OVB DEPTH	FROM (m)	TO (m)	LENGTH (m)	%TCu	%ASCu	%MoS_2	MINERALIZATION TYPE
98-1	215.5 m	0.0 m	12.2	57.9	45.7	0.33	0.04	0.031	mal-az-cup-(cc)-cp-py-mo
			106.7	128.0	21.3	0.31	0.01	0.026	cp-py-mo
			179.8	192.0	12.2	0.25	0.01	0.006	py-cp-(mo)
98-2	214.3 m	0.0 m	4.6	18.3	13.7	0.23	0.06	0.010	cup-cp-py-(mo)
			109.7	125.0	15.3	0.25	0.01	0.015	py-cp-mo
			149.3	173.7	24.4	0.22	0.01	0.017	py-cp-mo
98-3	185.0 m	2.4 m	—	—	—	—	—	—	—
98-4	139.3 m	8.5 m	8.2	30.5	22.3	0.25	0.04	0.009	py-cc-(cp)-(mo)
98-5	225.5 m	2.1 m	6.1	24.4	18.3	0.69	0.36	0.015	mal-az-cup-py-cc-mo

az - azurite
mal - malachite
mo - molybdenite
ASCu - acid soluble copper
cp - chalcopyrite
cup - cuprite
( ) - minor amount
TCu - total copper
py - pyrite
cc - chalcocite
OVB - overburden
m - metres

Table 2
SUMMARY OF DRILL HOLE RESULTS

4.4 Interpretation

Drill holes 98-1, 98-2, 98-4 and 98-5 confirmed the presence of a copper-molybdenum mineralized zone located in the GM Mineral Claim Group.

The trend of the induced polarization anomaly in the drilling area was used to determine the strike of the mineralized system. The dip was determined by producing a 45° azimuth compressed section showing all of the drill holes. This section was modeled using cutoff grades of 0.10 % Cu and 0.010 % MoS_2 (see Figure 4). The mineralized zone was determined to consist of three parallel structures with steep dips of 65° to 70° to the southwest and a strike with an azimuth of 315°. The true width of the structure intersected at the top of 98-4, through most of 98-1, and at the bottom of 98-2 is approximately 45 metres (150 feet). The structure intersected at the top of 98-2 and at the bottom of 98-5 has an approximate true width of 37 metres (120 feet). The width of the structure encountered at the top of 98-5 is undetermined since there are no drill holes which intersect it completely.

The mineralized structures, defined by the 0.10 % Cu contours, consist of supergene copper enrichment near surface with primary material below. The primary mineralization averages 0.16 % Cu and 0.013 % MoS_2 and the supergene enrichment averages 0.35 % Cu and 0.017 % MoS_2. There does not seem to be a corresponding near surface enrichment of molybdenum. In general, MoS_2 grades greater than 0.010 % coincide with copper mineralization greater than 0.10 %. Molybdenum concentrations were used effectively to assist in defining the narrow steeply dipping structures in the drilling area.

The area outlined by the drilling is interpreted to be a mineralized system consisting of three parallel structures formed by hydrothermal solutions depositing weak copper and significant molybdenum. The background copper grades that occur in the Gibraltar ore bodies are not evident in this area. There is no porphyry-type disseminated copper mineralization associated with the trondhjemite. The sulphide mineralization is only associated with quartz veining. The high grade near surface copper enrichment is formed by the mobilization of copper in an acidic environment (ie. occurrence of pyrite).

5. STATEMENT OF COSTS

1998 Diamond Drilling on the GM Mineral Claim Group

Diamond Drilling Costs		
L.D.S. Diamond Drilling Ltd. of Kamloops, B.C.		
Contracted Cost = $41,753.20		**$41,753.20**
Supplies		
Sample Bags 350 @ $0.28/bag =	98.00	
Misc. (flagging, topo thread, etc.) =	20.00	
Total Supplies	$118.00	**$ 118.00**
Vehicle Costs		
3/4 ton 4×4 truck rented from		
Ron Ridley Rentals Ltd. of Williams Lake, B.C.		
2 weeks @ $390.00/week = $780.00		**$ 780.00**
Sample Preparation and Assay Costs		
Gibraltar Mine Laboratory (4 assays per sample)		
314 samples @ $20.00/sample = $6,280.00		**$ 6,280.00**
Personnel Costs		
Supervision, Core Logging		
G. Barker 25 hrs. @ $43.00/hr. = $1,075.00		
Field Work, Core Logging, Report Preparation		
M. Rydman 130 hrs. @ $33.00/hr. = $4,290.00		
Core Logging		
G. Grubisa 30 hrs. @ $35.00/hr. = $1,050.00		
Core Logging		
D. Poon 22 hrs. @ $30.00/hr. = $ 660.00		
Total Personnel Costs	$7,075.00	**$ 7,075.00**
Total Costs		**$56,006.20**

6. CONCLUSION

The diamond drill program was successful in discovering copper-molybdenum mineralization within the GM Mineral Claim Group. A geological model was developed from the five drill holes, but due to poor economic conditions further testing of this model was temporarily discontinued.

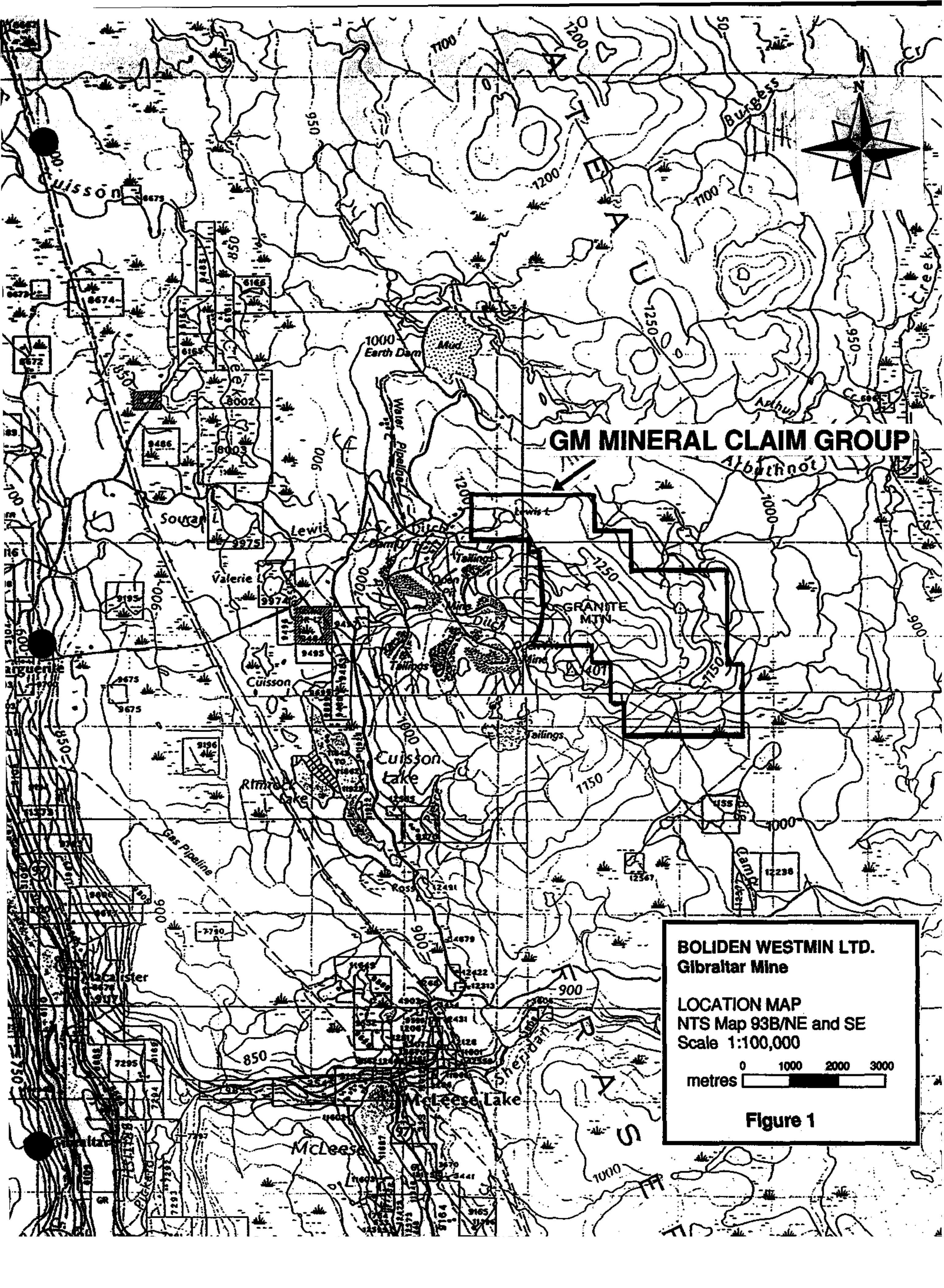
The possibility of finding more mineralization in this area is very strong. The drilled mineralized structures are open along strike and additional parallel structures may exist further to the southwest. The width of the structure intersected at the top of hole 98-5 is unknown and should be delineated. It is very probable that the supergene enrichment occurs well beyond the current drilling.

Further diamond drilling on the GM Claims is required to properly determine the extent and economic viability of this mineralized area. Angle holes drilled across the structures would be effective in verifying widths and any interior high grade mineralization. The supergene enrichment zone could be further defined with short holes drilled on a tighter grid.

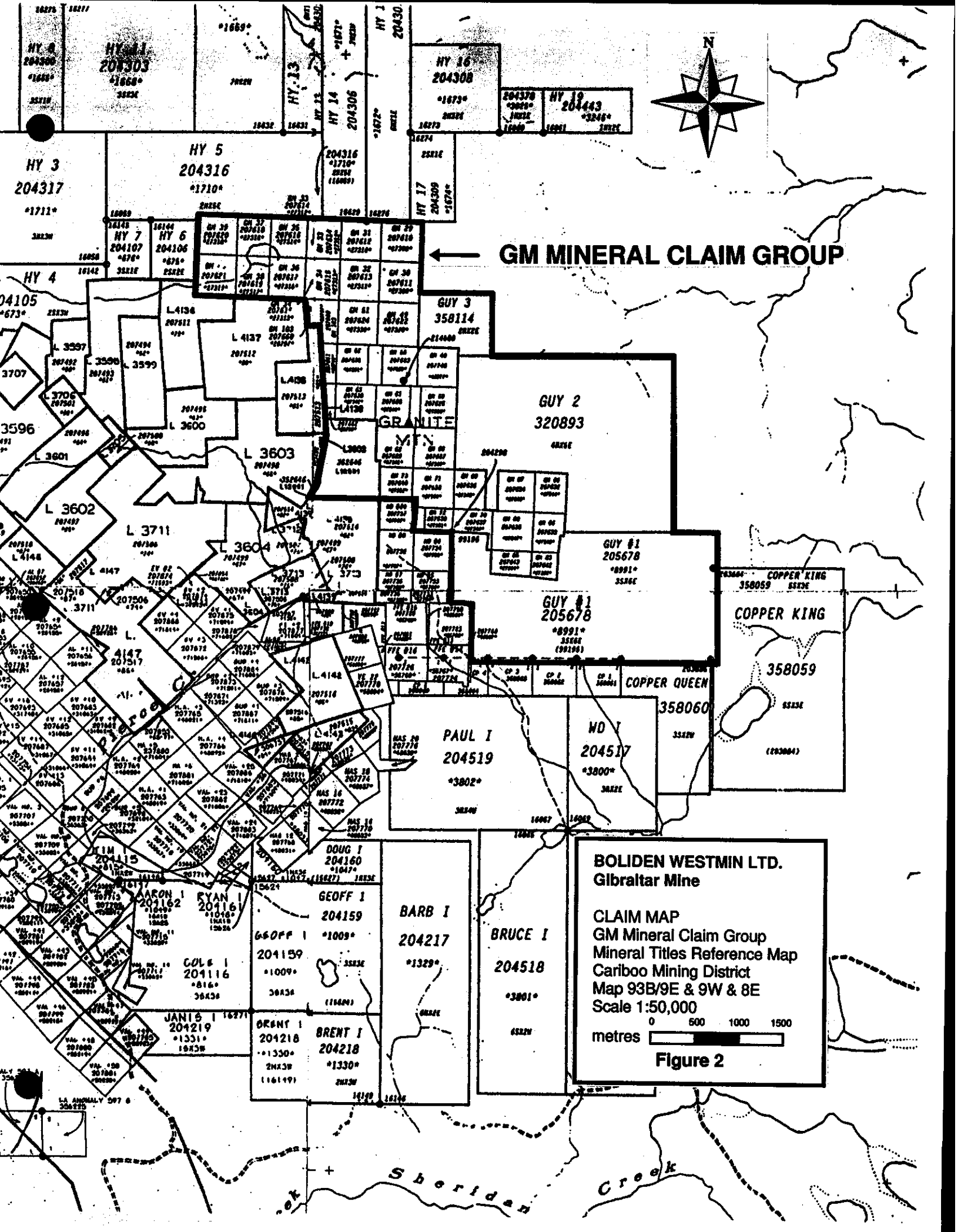
Murray Rydman

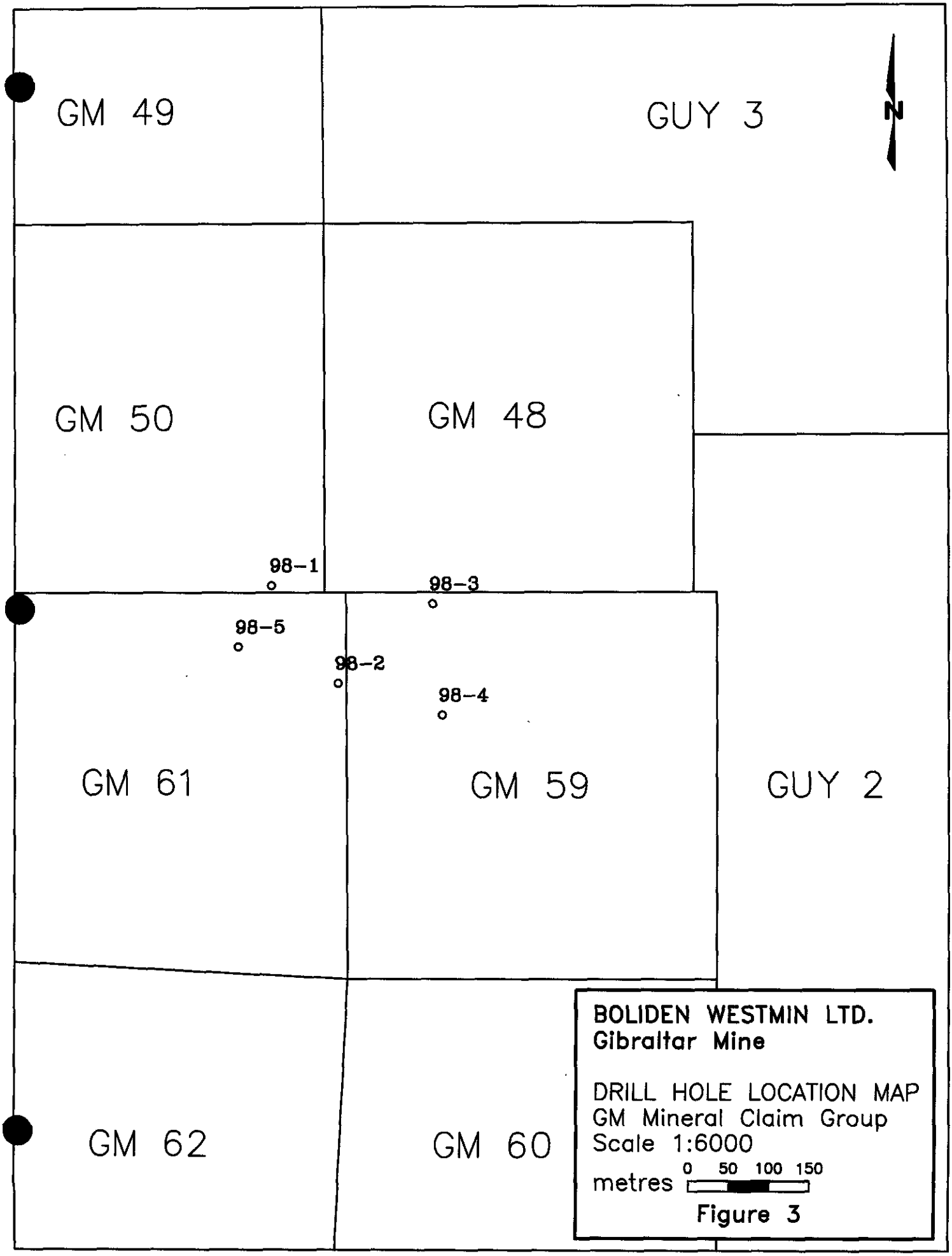
Murray Rydman
Exploration Geologist
GIBRALTAR MINE

7. LIST OF FIGURES



GM MINERAL CLAIM GROUP
BOLIDEN WESTMIN LTD.
Gibraltar Mine
LOCATION MAP
NTS Map 93B/NE and SE
Scale 1:100,000
0 1000 2000 3000
metres
Figure 1
N
GRANITE MTN
Cuisson Lake
McLeese Lake
Lewis L
Valerie L
Rimrock Lake
Earth Dam
Mud
Tailings
Open Pit Mine
Ditch
Water Pipeline
Gas Pipeline
Burgess
Arthur
Arbuthnot
Sheridan
Macalister
Cuisson
Creek
Lewis
Ross
Camp


GM MINERAL CLAIM GROUP
HY 3
204317
HY 4
HY 5
204316
HY 6
204106
HY 7
204107
HY 10
204443
HY 11
204303
HY 13
HY 14
204306
HY 16
204308
HY 17
204309
GUY 3
358114
GUY 2
320893
GUY #1
205678
GUY #1
205678
COPPER KING
358059
COPPER KING
358059
COPPER QUEEN
358060
PAUL I
204519
WD I
204517
DOUG I
204160
GEOFF I
204159
BARB I
204217
BRUCE I
204518
BRENT I
204218
ORENT I
204218
JANIS I
204219
COLE I
204116
AARON I
201162
RYAN I
201161
KIM
204115
GRANITE MTN.
L 3596
L 3597
L 3598
L 3599
L 3600
L 3601
L 3602
L 3603
L 3604
L 3706
L 3707
L 3711
L 4134
L 4135
L 4136
L 4137
L 4147
L 4148
N
Sheridan Creek
BOLIDEN WESTMIN LTD.
Gibraltar Mine
CLAIM MAP
GM Mineral Claim Group
Mineral Titles Reference Map
Cariboo Mining District
Map 93B/9E & 9W & 8E
Scale 1:50,000
0 500 1000 1500
metres
Figure 2



BOLIDEN WESTMIN LTD.
Gibraltar Mine

DRILL HOLE LOCATION MAP
GM Mineral Claim Group
Scale 1:6000
metres 0 50 100 150

Figure 3

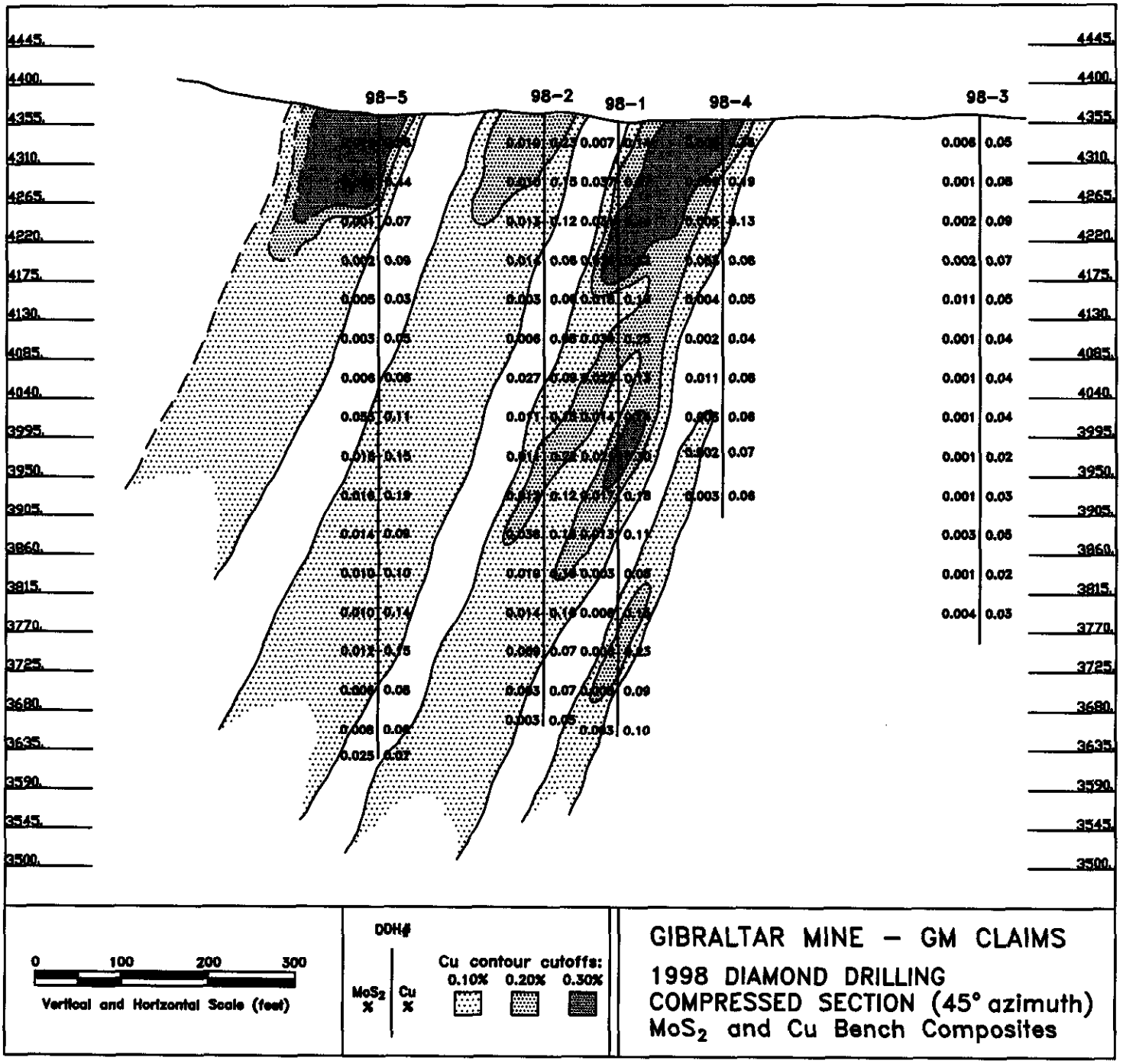

98-5
98-2
98-1
98-4
98-3
4445.
4400.
4355.
4310.
4265.
4220.
4175.
4130.
4085.
4040.
3995.
3950.
3905.
3860.
3815.
3770.
3725.
3680.
3635.
3590.
3545.
3500.
0 100 200 300
Vertical and Horizontal Scale (feet)
DDH#
MoS2 % | Cu %
Cu contour cutoffs:
0.10% 0.20% 0.30%
GIBRALTAR MINE – GM CLAIMS
1998 DIAMOND DRILLING
COMPRESSED SECTION (45° azimuth)
MoS2 and Cu Bench Composites

Figure 4

APPENDIX A : STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS - Murray Rydman

I, Murray Rydman, of Boliden Westmin Limited Gibraltar Mine, McLeese Lake, British Columbia, do certify that:

- 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 conducted the field work and aided in the interpretation of the results.
- I personally logged the core of two of the diamond drill holes.

Murray Rydman

Murray Rydman, B.Sc.

APPENDIX B : DIAMOND DRILL LOGS

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-1 Page No. 1 of 12

LOCATION GM CLAIMS AREA BEARING — LATITUDE (N) 51770 hip chain and compass CORE SIZE NQ LOGGED BY Murray Rydman
DATE COLLARED April 22, 1998 LENGTH 707' LONGITUDE (E) 59355 SCALE OF LOG 1" = 10' DATE April 23, 1998
DATE COMPLETED April 23, 1998 DIP -90° ELEVATION 4358 REMARKS collared on bedrock, slightly artesian

ROCK TYPES and ALTERATION SYMBOLS

GRANITE MTN. TRONDJHEMITE

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock; fault gouge; ↑ increase; ↓ decrease; ( ) minor amount; (( )) very minor amount

altn = alteration; az = azurite; bo = bornite; brx = broken rock; bx = breccia; carb = carbonate; cc = chalcocite; chl = chlorite; chry = chrysocolla; cp = chalcopyrite; cup = cuprite; diss = disseminated; ep = epidote; gg = gouge; gr = garnet; gyp = gypsum; hem = hematite; lim = limonite; mag = magnetite; mal = malachite; MnO_2 = pyrolusite; Mo = molybdenite; mod = moderate; nat Cu = native copper; ND = non directional; pied = piedmontite; py = pyrite; qtz = quartz; rx = rock; sous = saussurite; ser = sericite; sph = sphalerite; str = strong; stWk = stockwork; ten = tenorite; wk = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	0	0
LEACH CAP	—	—
OXIDE	62	100
SUPERGENE	86	140

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Min	Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
								CASING TO 13'		collared on bedrock	13										
GRANITE MTN. TRONDJHEMITE or possibly a transition between Trondjhemite and Mine Phase Tonalite (13' - 707' E.O.H.)	ND			20		?	9"	brx-lim-gg-ten ← mal-nat Cu on fracture ← mal on fracture ← bleb/veinlet cp	<0.5	lim-ten-(mal) on fractures throughout interval	17	85	47	70657	.09	.07		1.06	.003		.12
• 35% - 50% qtz • 10% - 20% chl • ~45% plag • wk-mod saussuritization • qtz typically occurs as med	ND			30		30 30 60 35	1/3" 1/8" 1/4" 1/2"	← mal vuggy qtz w/ str ten halo py-cp-ten qtz-cp-(mal) ← str cup-(mal) on fracture vuggy qtz-chl-ten-lim	<0.5	str lim-ten on fractures throughout interval ← ep alt'n	27	95	63	70658	.15	.06		1.37	.009		.10
sized isolated grains approaching LEUCOCRATIC PHASE (31-41)	ND			40		50+80 20-30 20	1/2"+1/3" hrln-1/10 1"	qtz-(chl) w/ str ten numerous irregular veinlets and diss py-Mo-(cp) qtz-(carb)-py-(cp)	0.5	str lim-ten on fractures throughout interval └ str cup	37	90	60	70659	.09	.02		1.31	.006		.05
	ND			50				numerous irregular veinlets and diss py-cp throughout interval	0.5	str lim-ten on fractures throughout interval blebs of az-mal within rx throughout interval	47	95	43	70660	.22	.11		1.44	.010		.18

4310

/home/rydman/eagle/log_sheet.dwg

WESTMIN

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt Type & Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL)	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	
	ND	60	30 30+40 40 ~40	1" ⅛"×2 ⅛" 2'	qtz-lim-Mo-az veinlets and diss (py)(cp) throughout interval carb-chl-qtz carb-py qtz-Mo-((py))-((cp))	0.6	OVERBURDEN / LEACH CAP / OXIDE / SUPERGENE REMARKS: str az lim on fractures throughout interval	57	95	47	7
	ND	70	← (mal)(cup) 20 30	½" hrln-1/10"	qtz-cp-(cc) numerous chl-qtz-carb-(cp)-(py) veinlets	0.5	lim on fractures throughout interval ← str cup	67	90	53	7
↑ ser	ND 40 wk	80	40 40	1/10" 1"	chl-qtz-(cp)-(py) qtz-(carb)-(Mo)-(cp) minor veinlets and wk diss (py) (cp) throughout	<0.5	lim on fractures throughout interval ← str cup ((nat Cu))	77	95	33	7
QTZ-SER-CHL ALT'N PHASE (80-83)	40 str ND	90	30-40 40×3 30 ? 40-50	2' ½"+¼"+½" ½" 2' hrln-1/10"	qtz-ser-chl-(py) qtz-(carb)-Mo-(py)-(cp) qtz-(py)-(cc) brx → numerous qtz-Mo-(py) veins several qtz-chl-py-(cp) veinlets	<0.5	mod-wk lim on fractures throughout interval	87	95	27	7
↓ grain size	ND	100			str cup on fractures minor py stringers throughout ← cup on fractures ← cup on fractures	<0.5	← hem on fractures faint red stain on core throughout interval, possibly caused by cup or hem	97	90	40	7
	ND	110	30 ? 30 30 50	1/10" 2' ½" ½" ½"	py-((cp)) brx-str nat Cu-(lim) qtz-py-(lim) ← nat Cu qtz-Mo-(cp)-(py)	0.7	hem stain	107	95	50	7

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-1 Page 3 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt'n Type & Intensity	GRAPHIC LOG Footage	GRAPHIC LOG Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OTHER
				?	1"	brx → solid qtz-Mo-(cp)-(py)														
	ND			20x2	½" + i"	qtz-(Mo)-(cp)	0.6		117	90	20	70667	.62	.02		1.79	.066		.12
			120	?	6'	brx → several qtz-(Mo)-(cp) veins and qtz-py veinlets														
				30	½"	qtz-cp-Mo														
				20	⅛"	qtz-chl-py														
	ND			20-30	hrln-¼"	← Mo w/ qtz-cp vein numerous qtz-chl-py-(cp) veins	0.5		127	95	37	70668	.39	.01		1.05	.021		.10
			130																	
				(20-30)x6	⅛"x6	qtz-chl-py-cp														
				30	½"	mag-qtz														
	ND			30-40	hrln-⅓"	← nat Cu on fracture numerous qtz-chl-py-cp-(Mo) veins	0.5	wk lim on some fractures with nat Cu	137	98	50	70669	.39	.02		1.37	.020		.16
			140			← nat Cu on fracture														
				30	1"	mag-qtz														
	ND			30-40	hrln-½"	numerous qtz-py-cp-(Mo) veins ← str Mo w/ vein	1.2	cp & py are not completely mixed, cp seems to be segregated to the more qtz-rich veins and py occurs more as stringers	147	98	33	70670	.47	.01		2.12	.036		.20
saussurite alt'n increases at 147', rock now resembles			150																	
saussuritized tonalite but with larger qtz grains				40x10	(½"-¼")x10	qtz-(chl)-py-cp														
				50	1"	qtz														
	40 wk			40x2	½"+¼"	qtz-cp-py-Mo	0.7	← wk hem staining qtz	157	98	63	70671	.25	.01		0.95	.010		.16
			160	30x6	⅛"x6	qtz-(chl)-cp-py-Mo														
	40 wk			40-50	hrln-1"	numerous qtz-py-cp-Mo veins	0.8		167	98	57	70672	.33	.01		1.53	.026	-	.18
			170																	

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	180	(40-50)×10 30×4 30×3 30×2	1/4"×10 1/10"×4 1/10"×3 1/2"×2	qtz-chl-cp-(py)-(Mo) qtz-chl-py-(cp) qtz-(chl)-py-(cp) qtz-chl-cp-py-Mo	0.8		177	95	63	70673	.22	.01		1.25	.018		.20
	ND	190	60×2 40 30 30×2 30×6	1/2"×2 1/2" 1/2" 1/4"×2 (1/10"-1/3")×6	qtz-chl-carb-cp-py-Mo qtz-chl-(carb)-cp-py qtz-cp-py-Mo qtz-cp-(py)-(covellite?) qtz-cp-py-Mo	0.8	← lim on fractures covellite, or possibly tarnished chalcopyrite	187	95	40	70674	.35	.01		1.64	.056		.24
	ND	200	30×3 50 ? 40	1/8"×2 1/16" 6' 1"	qtz-chl-py-cp carb brx → rx frag w/(py) ← gg-hem qtz-(carb)-(py)-(Mo)	0.5		197	80	17	70675	.16	<.01		1.28	.014		.08
increase in ser around most qtz veins	ND	210	30 30	1/4" 1/10"-1/2"	qtz-(carb)-py-(cp) numerous qtz-chl-py-(cp) veins ← Mo with above vein	0.8		207	90	47	70676	.16	<.01		0.91	.012		.06
	ND	220	30-40	1/10"-1/2"	← (Mo) numerous qtz-py-(cp) veins ← Mo	1.4		217	98	50	70677	.15	<.01		1.14	.015		.18
	ND	230	30×3 40 40×3 30×2 30×3	1/8"×3 1/2" 1/2"+1/10"+1/2" 1/4"×2 1/8"×3	qtz-py-((cp)) qtz-cp-Mo qtz-chl-py-((cp)) qtz-chl-(carb)-cp qtz-chl-(carb)-cp-py	0.8		227	98	47	70678	.22	<.01		1.07	.011	-	.22

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS₂	oz/ton Ag	ESTIMATE % TOTAL SULPHIDE
increase in ser around most qtz veins	ND	240	? 30x4 ?	4½' ½"x4 3'	brx → numerous 30° qtz-py-(cp)-(Mo) veins of varying widths qtz-(chl)-cp-(py) brx → numerous 30° qtz-py-cp-(Mo) veins	1.6		237	80	17	70679	.40	.01		1.78	.049		.28
clay alt'n on fractures →	ND	250	30 30	½" 2"	qtz-chl-cp-py qtz-py	0.4		247	95	60	70680	.12	<.01		1.23	.013		.05
	ND	260	30x5 30x3 30x2 ?	⅓"x5 ½"+¼"+⅓" 1"+2" 1'	qtz-cp-py-(Mo) qtz-chl-cp-py qtz-(py)-(Mo) brx-(hem)-(py)-(cp)	0.4	← hem stain ← hem on fracture	257	98	63	70681	.26	.01		1.16	.018		.26
	ND	270	30x2 ? 30 ?	⅓"x2 2' ⅔" 5'	qtz-chl-cp-py brx-gg-str Mo vein qtz-cp-Mo-(py) brx-(gg) w/qtz-py-cp-(Mo) veins	1.0		267	90	27	70682	.27	.01		1.41	.070		.15
	ND	280	30x12 40 30x3	⅓"x12 ½" ⅓"x3	qtz-chl-cp-py-(Mo) qtz-cp-Mo qtz-chl-cp-py	0.5		277	95	67	70683	.19	<.01		1.02	.009		.28
increase in chl and ser giving rock a weakly crenulated appearance (280'–292')	30-40 mod (wkcren)	290	50x2 30-40 30x2	½"x2 1/10"–½" 2"+1"	qtz-((cp))-((py)) numerous qtz-chl-cp-py veins, including several with Mo qtz-(py)-(cp)-(Mo)	1.2		287	95	40	70684	.15	<.01		1.48	.028		.26

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alfa Type / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS: ZONE / ESTIMATE / ACTUAL — OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.
ep occurring as blebs & stringers	ND	300	30-50	½"-1"	stwk qtz-chl-(py)-(cp)-(Mo) includes one larger bleb cp	0.4		297	95	43
			?	1½"	brx → qtz-py-(cp)-(Mo) veins					
	ND	310	30	⅓"	qtz-py-cp	0.5		307	95	63
			30×2	¼"×2	qtz-py-(cp)					
			30×7	¼"×7	qtz-(chl)-cp-py-(Mo)					
			60×2	½"×2	qtz-carb-chl-(cp)					
qtz-carb-chl; qtz-py-Mo-(cp)	ND	320	30+40	¼"+¼"	qtz-cp-py-(Mo)	0.5	wk hem stain (311'-327'); str Mo in vein	317	98	66
			40	½"	qtz-Mo-py					
			40	½"	qtz-carb-chl-py					
			40+30	⅓"+¼"	qtz-(carb)-(chl)-py					
			30×2	½"×2	qtz-py-Mo-(cp) X-cut by barren qtz-carb-chl					
			50	¼" qtz-Mo						
	ND	330	20	½"	qtz-carb	0.6		327	95	23
			30+20	¼"+⅓"	qtz-chl-py-(cp)-(Mo)					
			70	2½"	qtz-(carb)					
			20	¼"	qtz-py					
			40×2	⅒"×2	qtz-cp-py-((Mo))					
	ND	340	40	⅓"	qtz-cp-py-Mo	0.7		337	98	67
			40×3	⅛"×3	qtz-chl-py-(cp)					
			30	⅒"	qtz-py					
			50×2	½"×2	qtz-py-Mo					
	Nd	350	60+30	2"+½"	qtz-chl-carb	0.8		347	95	53
			40	½"	qtz-py-cp					
			30	½"	qtz-py-cp					
			40×2	½"×2	qtz-py-cp					

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-1 Page 7 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alpha Type / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL): OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu (XRAY)
wk ep alt'n	ND	30×2	½"×2	qtz-py-cp	1.5		357	98	50	70691	.29	<.01		1.36	.027		.36
		30×4	½"×4	qtz-cp-py													
	40-50 wk	40-50	⅛in-1"	numerous qtz-chl-carb-py-Mo-cp veins													
increased chl (357'-365')	40-50 wk	40-50	⅛in-1"	numerous qtz-chl-carb-py-cp-Mo veins	2.5		367	98	40	70692	.27	<.01		2.15	.021		.30
		30	⅓"	qtz-chl-cp-py													
	ND	40	1/16"-⅓"	several qtz-chl-py-cp-(Mo) veins													
increased chl (371'-392')	ND	20	2"	qtz-(cp)-(Mo)	1.5		377	95	30	70693	.23	.01		1.58	.023		.30
		40-50	⅛in-½"	numerous qtz-chl-cp-py veins throughout interval													
		50	1½"	qtz-(carb)-cp-Mo-py													
	ND	40-50	⅛in-½"	numerous qtz-chl-cp-py-(Mo) veins throughout interval	2.2		387	90	33	70694	.30	.01		1.71	.020		.32
		40	1"	qtz-chl-(carb)-cp													
	ND	40×8	(⅛in-½")×8	qtz-chl-cp-(py)-(Mo)	1.0		397	90	33	70695	.54	.01		1.82	.033		.32
		40	½"	qtz-chl-mag-cp													
		40-50	¼"	stwk qtz-chl-(carb)													
		40×3	½"×3	qtz-cp-py-(Mo)													
		40	3"	qtz-py-cp-(Mo)													
		20	¼"	qtz-py-cp-(Mo)													
	ND	40	⅛in-¼"	numerous qtz-py-cp-(Mo) veins throughout interval	2.0		407	90	43	70696	.16	<.01		1.72	.007		.16

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-1 Page 8 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt'n Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % VISUAL Cu MINERAL
↑ chl and ↓ saus alt'n (409'–435')	ND		420		40 40 30	hrln-½" 1" ½"	numerous qtz-py-(cp) veins throughout interval qtz-py-cp-Mo qtz-py-cp-Mo	3.5	← 1" massive py (coarse grained)	417	95	43	70697	.37	<.01		4.43	.052		.20
	ND		430		30-40	hrln-½"	numerous qtz-py-(cp) veins throughout interval (less than previous interval) ← Mo included with vein	2.0		427	98	60	70698	.15	.01		2.18	.008		.18
	ND		440		30-40 20 30x2	hrln-½" ⅓" ½"+1"	several qtz-py-(cp) veins from 430'–435' qtz-py-(cp) qtz-py-(Mo)-(cp)	2.5		437	98	53	70699	.08	<.01		2.18	.009		.12
↑ chl and ↓ saus alt'n (440'–445') ↑ chl and ↓ saus alt'n (446'–453')	ND		450		30x8 30x2 30x15	¼"x8 ⅛"x2 (⅛"-⅓")x15	qtz-py-(cp) qtz-chl-py-cp qtz-chl-(carb)-py-(cp)	2.5		447	95	37	70700	.16	<.01		2.51	.004		.22
typical looking Granite Mountain Trondjhemite with mod to str saus alt'n and occasional qtz-py veining starts @ 453'	ND		460		(30-40)x10 20x2 ? 10x2 30x2	(hrln-½")x10 hrln x2 2' ⅛"x4	qtz-chl-py-(cp)-(Mo) qtz-chl-py-(cp) Stwk massive chl-qtz qtz-chl-py-(cp)	1.8	← pied alt'n	457	95	43	70701	.08	<.01		2.44	.007		.10
	ND		470		20 20 30 20x2 30x5	1/16" ⅛" ½" ¼"+⅛" ⅛"x5	qtz-chl-py-(cp) qtz-chl-py-(Mo)-(cp) qtz-chl-py-(cp)-(Mo) qtz-chl-py-(cp) qtz-chl-py-(cp)	1.2		467	95	80	70702	.06	<.01		1.25	.002		.07

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-1 Page 9 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt'n Type & Intensity	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu content
	ND		480	30	1/3"	qtz-(py)-(cp)	1.2	← cp stringers	477	98	73	70703	.07	<.01		1.93	.012		.08
				30	1/4"	qtz-py-cp													
				30x8	1/16"x8	qtz-chl-py													
				40	hrln-3/8"	numerous qtz-chl-(carb)-py-(cp) veins		← str Mo within one vein											
	ND		490	40	1"	qtz-(carb)-Mo-(py)	1.5		487	98	57	70704	.23	<.01		2.06	.011		.10
				50	1/2"	qtz-chl-carb-(py)													
				30-40	hrln-1/2"	qtz-chl-py-(cp)													
	ND		500	20	1 1/2"	qtz-cp	1.0	hem stain	497	95	50	70705	.08	<.01		2.33	.029		.15
				80	1/4"	qtz-carb													
				30	8"	qtz-py-cp-Mo													
				30	4"	qtz-py-cp-Mo													
				40	1"	qtz-chl-(carb)													
	ND		510	20	1/3"	qtz-py-Mo-cp	1.0		507	98	50	70706	.14	<.01		1.15	.010		.06
				20x4	1/16"x3 + 1/4"	qtz-py-(cp)-(Mo)													
	ND		520	20x2	1/16"x2	qtz-chl-py-(cp)	0.5		517	98	57	70707	.05	<.01		1.26	.001		.04
↑chl and ↓ sauss alt'n (517'–525')				20	1/3"	qtz-py-(cp)													
				20x2	1/16"x2	qtz-chl-py													
	40 wk		530	40	5'	qtz-chl-carb-py-(cp) alt'n	1.2	← Mo occurs with py	527	95	53	70708	.07	<.01		1.93	.003		.05
	NP			(20-40)x6	(1/16"-1/4")x6	qtz-chl-(carb)-py-Mo													
				40x3	1/2"x3	qtz-chl-(carb)													

WESTMIN

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alteration Type & Intensity	GRAPHIC LOG Footage	GRAPHIC LOG Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS Zone / Estimate / Actual	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	S M
↑chl and ↓saus alt'n wk carb between grains (532' – 707' E.O.H., except where noted)	ND		540		60 50×2 40 ? 30+20	2/3" 1/16"×2 1" 1/4"-1" 1/16"×2	qtz-chl-(carb) qtz-py qtz-py Stwk qtz-chl-carb qtz-py	1.0	Overburden Leach Cap Oxide Supergene REMARKS	537	100	67	
	ND		550		20-40	hrln-1/3"	several qtz-chl-py-(cp) veins throughout interval ← cp with py	0.7		547	100	70	
	ND		560		20-40	hrln-1/2"	numerous qtz-chl-py-((cp))-((Mo)) veins	2.2		557	98	40	
	40 wk		570		40 40 ?	2/3" hrln-1/2" 2'	qtz-(carb)-py-(cp) numerous qtz-chl-py-(cp) veins throughout interval brx-gg w/ 4" competent gg @ 569'	1.0		567	98	43	
	ND		580		? 30×4	6' 1/16"×4	← wk hem on fracture brx-(gg)-(carb) w/ qtz-chl-py veins qtz-chl-py ← wk hem on fract	0.7		577	90	17	
	ND		590		30×6 ? 30×2	1/16"×6 1' 1/16"×2	qtz-chl-py-(cp) brx-((hem)) qtz-chl-py-(cp)	0.5	hem stain	587	95	43	7(

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-1 Page 11 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alm Type / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL) & REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	600	30×6	1/20"×6	qtz-chl-py-(cp)	0.5	← hem stain	597	90	23	70715	.33	<.01		1.82	.005		.15
			?	4'	brx-(gg)-(carb)													
			30	1/4"	qtz-chl-carb-py-(cp)													
			?	1'	brx-(gg)-(carb)													
			30	1/2"	qtz-(carb)-cp-(py)													
	ND	610	30-40	hrln-1/2"	numerous qtz-chl-carb-py veins throughout interval	2.0		607	90	37	70716	.14	<.01		2.37	.002		.06
			?	1'	brx-gg-carb-py													
↓ chl alt'n	ND	620	40×5	1/4"×5	qtz-chl-carb-py-(cp)	0.7	hem stain; * 6" competent gg @ 620'	617	95	43	70717	.20	<.01		1.71	.005		.10
			20-40	1/4"-3/8"	stwk qtz-chl-carb-(cp)													
			?	2'	brx-gg-carb-hem *													
	ND	630	?	4"	competent gg-(carb)	0.7		627	80	33	70718	.32	<.01		2.02	.011		.12
			30	1/16"	qtz-chl-py-cp-Mo													
			?	3'	brx-(gg)-(carb)													
			20	1"	qtz-(carb)-cp-py													
	ND	640	30-40	hrln-1"	numerous qtz-py-(cp)-(Mo) veins throughout interval	2.8		637	90	27	70719	.10	<.01		3.77	.011		.15
			?	5'	brx-(gg)-(carb)													
			?	1'	competent gg-(carb)													
	ND	650	?	1'	competent gg-(carb)-(hem)	1.0	} hem stain	647	85	30	70720	.07	<.01		2.08	.006	-	.06
			?	4'	brx-(gg)-(carb)-(hem)													
			70×2	1/2"×2	qtz-chl-carb-(cp)													
			30	hrln-1/4"	several qtz-chl-py-(cp)-(Mo) veins													

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-1 Page 12 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE to AXIS	GRAPHIC LOG Alt'n Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu content
↓chl and ↑ saus alt'n (655'–677')	ND		660		30-40	1/10"-1"	qtz-(carb)-py-(cp)-(Mo) veins throughout interval	3.0			657	98	60	70721	.08	<.01		2.58	.013		.15
	ND		670		30-40	1/10"-1/4"	several qtz-py-((cp)) veins throughout interval	1.5			667	98	50	70722	.10	<.01		2.33	.002		.04
	ND		680		40 30-40	3/8" 1/10"-3/8"	qtz-chl numerous qtz-py-((cp)) veins throughout interval	3.0			677	98	57	70723	.09	<.01		2.85	.010		.05
	ND		690		40 30-40	2" 1/10"-1/2"	qtz-(py) numerous qtz-py-((cp)) veins	2.0			687	95	40	70724	.09	<.01		2.94	.002		.03
	ND		700		30-40	1/10"-1"	← str Mo with vein numerous qtz-py-(cp) veins	3.0			697	95	37	70725	.15	<.01		4.25	.003		.08
	ND		707		30-40 ?	1/10"-3/8" 5"	← Mo with vein numerous qtz-py-((cp)) veins competent gg-(carb)	1.8			707	98	33	70726	.07	<.01		2.47	.003		.03
							Murray Sydoran			E.O.H. @ 707'											

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

LOCATION: G.M. CLAIMS	BEARING: –	LATITUDE (N): 51370 (hip chain and compass)
DATE COLLARED: April 23, 1998	LENGTH: 703'	LONGITUDE (E): 59625 (hip chain and compass)
DATE COMPLETED: April 25, 1998	DIP: 90°	ELEVATION: 4372
CORE SIZE: NQ	LOGGED BY: G.E. BARKER	
SCALE OF LOG: 1" = 10'	DATE: APRIL 27, 1998	
REMARKS: collared on bedrock		

ROCK TYPES and ALTERATION SYMBOLS

- GRANITE MOUNTAIN TRONDJHEMITE
- CHLORITE DARKENED G. MT. TRONDJHEMITE
- QUARTZ - CARBONATE - (CHLORITE) ALTERATION

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock; fault gouge; ↑ increase; ↓ decrease; ( ) minor amount; (( )) very minor amount

altn = alteration; az = azurite; bo = bornite; brx = broken rock; bx = breccia; carb = carbonate; cc = chalcocite; chl = chlorite; chry = chrysocolla; cp = chalcopyrite; cup = cuprite; diss = disseminated; ep = epidote; gg = gouge; gr = garnet; gyp = gypsum; hem = hematite; lim = limonite; mag = magnetite; mal = malachite; MnO_2 = pyrolusite; Mo = molybdenite; mod = moderate; nat Cu = native copper; ND = non directional; pied = piedmontite; py = pyrite; qtz = quartz; rx = rock; saus = saussurite; ser = sericite; sph = sphalerite; str = strong; StWk = stockwork; ten = tenortite; wk = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	0	0
LEACH CAP	—	—
OXIDE	75	60
SUPERGENE	—	—

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDE
							ovb depth to 0 collared on bedrock CASING TO 15'											
GRANITE MTN. TRONDJHEMITE 40 to 50% qtz 10 to 20% chl	ND	20		2"	massive qtz - lim stained		mod lim to 45', wk lim to 62' Cup seen in lim	17	95									.10
45% ± 5% plag. feldspar wk to mod saussuritization qtz grains fairly distinct typically 1/8" to 1/4" in size Alteration variations of G.M.T. noted throughout log	ND	30	40-50° / 40	1/8"x3 / 1/8"x2	qtz - lim - ((py)) - (cup) / qtz - lim - ((py)) - (cup)	<.5	} ??	27	99	57	70729	.19	.07		1.28	.004		.12
NOTE: • quartz viens are common throughout the hole and sulphide mineralization (py, cp, MoS_2) is frequently associated with the qtz viens.	ND	40	40 / 45°	1/8"x2 / 1/16"x2	qtz - chl - (epi) - Lim - ((cup)) / qtz - cup - lim	<.5		37	90	23	70730	.25	.10		1.57	.011		.15
• Py is common throughout the hole. chl. darkened core 41' to 63'	45° wk	50	30-35° / ? / 30°	1/8"x5 / 2" / 1/8"x3	chl - ser - lim - (cup) / qtz - chl - MnO_2 - py - ((lim)) / qtz - epi - Lim / qtz - chl - py - ((lim))	.5	small ser shear / } vuggy	47	98	37	70731	.24	.04		1.73	.006	-	.08

4355

/home/rydman/.../log_sheet.dwg

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-2 Page 2 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt. Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	45° w/2		60		45°	⅛"x3	chl-epi-lim	.5			57	99	43	70732	.24	.04		2.41	.020		.03
					20°	¼"x2	chl-qtz-py-(lim)														
	45 wk		70		15°	¼"x2	qtz-chl-py-MnO_2-(mal)	<.5			67	98	57	70733	.12	.01		1.46	.002		.10
					15-20°	¼x3	(qtz)-chl-MnO_2-epi														
					70°	½"	qtz-epi														
	ND		80		15°	¼"x3	chl-epi-MnO_2-ten	.5			77	97	13	70734	.17	.01		2.13	.003		.15?
	45° wk		90		20°	2' ½"x2	massive qtz qtz-carb	<.5			87	97	27	70735	.14	.01		1.58	.022		.04
	?		100		30°	⅛"x2	chl-py	<.5		str "black" chl on fractures along with olive colored chl (epi?)	97	97	10	70736	.11	.01		1.46	.007		.05
	ND				35°	⅛"x2	qtz-chl-ep-(mo)	.5			107	97	37	70737	.24	<.01		1.49	.026		.15
					30-40°	½"x4	qtz-chl-py-(ep)														

4310

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-2 Page 3 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt'n Type & Int.	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE) REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Sulphides
Core transitional between trondjhemite and tonalite from 112' to 180'	40° w/c		120		30 30-45°	3" 1/16" to 1/8"	gt3-(mo) numerous viens gt3-chl-py-(cp)-mo	1.5	most viens from about 105' to 180' have chl darkened halos generally the chl halos indicate the presence of cp - associated with the py	117	98	23	70738	.13	<.01		1.58	.030		.25
	35° w/c		130		30-45	1/16" to 1/8"	numerous viens gt3-chl-py-(cp)-mo	1.5		127	90	20	70739	.10	<.01		1.71	.003		.20
	35° w/c		140		30-45	1/16" to 1/8"	numerous viens gt3-chl-py-(cp)-(mo)	1.0		137	92	10	70740	.09	<.01		1.62	.006		.20
	35° w/c		150		? 30-35	3" 1/8" x 4	gt3-chl-py-(cp)-(mo) epi-(carb) gt3-chl-py-(cp)-mo	1/2%	} core is crushed with (gg)	147	90	23	70741	.08	<.01		1.25	.007		.15
	35° w/c		160		25-35	1/16 to 1/8	numerous viens gt3-chl-py-(cp)-mo	1.5		157	96	27	70742	.10	<.01		1.45	.038		.15
	35° w/c		170		30-35 30	1/16" to 1/8" 3"	numerous viens gt3-chl-py-(cp)-mo gt3-mo-py-cp	1.0		167	94	43	70743	.06	<.01		1.87	.007	.	.20

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

Hole No. 98-2 Page 4 of 12

Zone	Estimate	Actual
Overburden		
Leach Cap		
Oxide		
Supergene		

ROCK TYPES and ALTERATION	Foliation Angle & Intensity	Graphic Log Footage	Structure (veins) Angle to Core Axis	Structure (veins) Width	Mineralization	Estimate % Pyrite	Remarks	Footage Blocks	Estimate % Core Recovery	R.Q.D.	Sample Number	% TCu	% ASCu	% CNSCu	% ASFe	% MoS$_2$	oz/ton Ag	Estimate % Total Sulphide
	40° wk	180	30-35 30-40	1/8x3 1/8x4	qtz-chl-py-(cp)-mo qtz-chl-py-(cp)-mo	1.0		177	98	47	70744	.07	<.01		1.57	.009		.22
	35° wk	190	35	1/8x4 3'	qtz-chl-py-(cp)-(mo) massive qtz + mo	.5		187	98	43	70745	.04	<.01		1.34	.007		.10
	ND	200	35-40 ? 45	1/8"x3 1" 1/8	qtz-chl-py-((cp))-(mo) "patchy" epi qtz-chl-py	<.5		197	99	70	70746	.04	<.01		.98	.002		.03
	ND	210	40 to ? 30° 35°	1/4" 1/8"	"stringy" epi qtz-chl-py qtz-chl-py	<.5		207	100	87	70747	.05	<.01		1.10	.005		.02
	ND	220	45 40	2" 5"	massive qtz massive qtz-(hem)-(py)	<.5		217	97	63	70748	.08	<.01		1.07	.003		.02
	ND	230	50° 10°	3" 2" 1/3"	massive qtz-(py) "patchy" epi } (hem) qtz-chl-py	<.5		227	95	63	70749	.07	<.01		1.36	.003	-	.02

WESTMIN

WESTMIN RESOURCES LIMITED **GIBRALTAR MINE** **DIAMOND DRILL LOG** Hole No. 98-2 Page 5 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt'n Type %	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDE
	ND		240		5°	Y_8 x 2	qtz - chl - py - (cp)	0.5			237	98	40	70750	.05	<.01		1.15	.001		.03
	ND		250		? 10-50 45	Y_2 x 2 Y_2	qtz - mag - (py) qtz - (chl) - py - cp	<0.5	} (hem) "stained"		247	99	57	70751	.06	<.01		1.18	.002		.05
	ND		260		40-45 45	Y_2 x 3 3"	} "patchy" epi qtz - epi - hem qtz - (ser) - py	<0.5			267	99	83	70752	.04	<.01		.94	.001		.02
	ND		270		30-35	Y_8 x 2	} "patchy" epi qtz - chl - py } qtz - ser - py - (cp)	<0.5			267	100	63	70753	.11	<.01		1.20	.004		.04
	ND		290		5-10	Y_8 x 2	} qtz - chl - (ser) - (py) - hem qtz - chl - epi - hem - (py)	<0.5			277	99	30	70754	.09	<.01		1.41	.019		.02
	ND		290		35 35 40	1" Y_{16} x 2 2"	qtz - (mag) - py - (cp) qtz - chl - py - cp qtz - py - cp	<0.5	peacock tarnish		287	99	80	70755	.08	<.01		1.00	.003		.08

WESTMIN RESOURCES LIMITED – GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-2 Page 6 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt & Type / Ft Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDES
	ND	300	50-55 60? 70-80 90	⅛×3 3" ½×4 ⅛×2	qt3-chl-py qt3-carb-chl qt3-(carb) qt3-(chl)-py	<0.5		297	99	30	70756	.08	<.01		1.23	.003		.02
	ND	310	35-40 45 90	⅛×2 3" ⅛×2	"patchy" epi qt3-chl-py qt3-py-mo qt3-chl-py-ser	0.5		307	98	47	70757	.08	<.01		1.23	.087		.08
	ND	320	40 10-15	½ ⅛×3	qt3-py-(cp)-(mo) qt3-chl-py-cp	0.5		317	99	43	70758	.13	<.01		1.10	.005		.12
	ND	330	30 70-80	⅛×2 ¼×4	massive qt3 and py-(cp) qt3-chl-py epi-(qt3) qt3-chl-cp-cc	1.0		327	97	50	70759	.09	<.01		2.22	.026		.18
	?	340	60-70	¼×3	qt3-epi qt3-epi-(pied)-(ser) str carb	<0.5	core is very vuggy. carb has been leached out leaving numerous small pits.	337	92	17	70760	.09	<.01		.90	.008		.02
	? ND				gg-hem	<0.5	small fault zone	347	90	7	70761	.06	<.01		1.22	.010		.03

WESTMIN

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

Hole No. 98-2 Page 7 of 12

BOTTOM DEPTHS	ESTIMATE	ACTUAL
ZONE		
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG (Type of Altn, Footage, Structure)	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	? ND	360	30	1/8x2	} str epi - carb qtz-chl-py-(cp)	<0.5		357	90	23	70762	.09	<.01		.65	.002		.05
	40 wk	370	25-35 30-40	1/8x5 1/3x2, 1/4	qtz-chl-py-cp-(mo) qtz-chl-(py)-cp-(cc?)	0.5		367	98	53	70763	.32	<.01		1.36	.022		.23
	ND	380	30 40 30	1/3x2 2" 1/8x2	qtz-chl-(py)-(cp)-mag qtz-py-(cp) qtz-chl-(ser)-(py)	0.5	} str hem on fractures	377	97	40	70764	.21	<.01		2.84	.011		.10
	35 wk	390	10-20 20-40	1/8x3 1/8x2, 1/4	qtz-chl-epi-(py) } py-(cp) qtz-chl-py-(cp)	1.0		387	97	30	70765	.19	<.01		2.19	.012		.10
	30 wk	400	5-20 35 30-40	1/3x4 1" 1/8x5	qtz-chl-py qtz-mag-(py) qtz-(chl)-mag-py-(cp)	1.0	} py crystalline	397	98	37	70766	.34	<.01		2.60	.012		.07
	40 mod	410	40 35	2" 1/8x3	qtz-py-(mo)-(cp)-(ser) qtz-(chl)-(ser)-py-(cp)	0.5		407	98	20	70767	.21	<.01		3.56	.018	-	.20

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-2 Page 8 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alta Type Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE. REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDE
	45 mod to XD	420	30-50	1/8 to 1/4	Numerous viens qtz-chl-(ser)-py-cp-(mo)	1.0		417	98	67	70768	.15	<.01		1.88	.004		.25
	XD to 45 str	430	35 45 50	1/8 x 3 2" 1/2	qtz-chl-ser-py-(cp) qtz-py-cp-mo qtz-py-(cp)-(mo)	1.0		427	98	63	70769	.16	<.01		2.30	.007		.18
	45 mod to XD	440	30-40 ? '	1/16 to 1/8 2' 1'	numerous viens qtz-chl-ser-py-(cp) massive qtz-carb-(py)-(mo) massive qtz-carb-(ser)-(chl)-py	0.5	mod crenulation	437	99	53	70770	.06	<.01		1.51	.002		.15
	45 mod	450	30-40	1/8 to 1/4	numerous viens of qtz-chl-py-(cp)-(mo)	1.5		447	98	30	70771	.17	<.01		2.04	.015		.20
	45 mod	460	50	1"	qtz-(carb) numerous viens qtz-chl-py-(cp)-(mo)	1.0		457	98	57	70772	.15	<.01		1.63	.010		.18
qtz-carb-(chl) altn. 461 to 477 core is crenulated and leucocratic. chl is fine green-black lines between "eyes" of qtz-carb.	30 to 45 str	470	45 ? ?	1/2 2.5' 1"	qtz-carb-py-(cp) massive qtz-carb-((py)) qtz-py-(cp)-mo	<0.5	vuggy core - leached carb forms small "pits"	467	99	60	70773	.03	<.01		1.34	.039	-	.10

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-2 Page 9 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Vein & Alt. Type / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ESTIMATE / ACTUAL): OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE — REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	40 str ?	480	40-50	½x2	qtz-carb-(epi)	? 0.5	FAULT ZONE 474 to 499	477	95	40	70774	.10	<.01		1.25	.102		? .10
	?	490			Some py-(cp)-(mo) observed in qg and Brx	?	Brx + qg str qg 477 to 482	487	25	3	70775	.09	<.01		1.49	.007		? .20
	?	500				?		497	45	7	70776	.41	<.01		1.92	.010		? .20
	40 mod	510	10-40	⅛+½	numerous viens qtz-chl-py-(cp)-(mo) (ser)	1.5		507	97	57	70777	.21	<.01		1.33	.022		.24
	35 wk	520	25-30	½x2	qtz-chl-py-(cp))	0.5	(hem)-brx-(qg)	517	98	67	70778	.14	<.01		1.79	.012		.07
leucocratic zone	ND	530	50 / 10-20	1" / ½x3	qtz-(chl)-cp-(py)-mo / qtz-(chl)-py-cp	0.5		527	99	83	70779	.28	<.01		1.80	.043		.15

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-2 Page 10 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt. Type Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL) & REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	40 wk	540	30	1/8x2	qtz-chl-py brx with - py-(cp)	<0.5	wk to mod hem "staining" penetrates core giving it a pink tint. 537 to 607'	537	99	43	70780	.11	<.01		1.40	.010		.05
	35 wk	550	5-10	1/8x3	qtz-chl-py-cp py-cp in brx	0.5	brx-(gg)-(hem)	547	98	23	70781	.22	<.01		1.41	.015		.20
	35 wk to mod	560	15 15 45	1/8x2 1/2 1/4	qtz-chl-cp-(py) qtz-(py) qtz-chl-py-cp	1.0	brx-(gg)-(hem)	557	97	67	70782	.17	<.01		1.87	.008		.25
wk to mod carb attn. from 565 to EOH	40 str to 35 wk	570	40 25-35	1.5' numerous veins	qtz-chl-ser-py-(cp) qtz-chl-(ser)-py-cp	1.0	small 1.5' ser-chl shear with crenulation brx-(gg)-(hem)	567	98	40	70783	.20	<.01		2.22	.015		.26
	45 mod	580	45 45 ?	3" 1/8x5 1'	qtz-mo qtz-chl-py-(cp)-(mo) qtz-py-(cp)-mo	1.0		577	98	37	70784	.19	<.01		1.88	.029		.22
	40 wk to ND		35-40	1/4x2	qtz "patchy" epi	<0.5		587	98	57	70785	.08	<.01		1.40	.004		.05

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-2 Page 11 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alln & Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% AsFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu
	40 wk		600	?	1.5"	qtz - py - cp - (hem) - mo cp - py - in brx	0.5			597	98	47	70786	.16	<.01		1.60	.009		.17
	? ND		610	40		qtz - ser - py py - cp ingg	0.5	str gg - brx		607	96	33	70787	.05	<.01		1.35	.002		.15
	10 wk		620	35 ? ?	Y8 x 3 3" 3"	qtz - chl - carb - py - cp qtz - cp - mo - (py) qtz - (ser) - chl - (carb) - cp - mo - py	1.0			617	97	23	70788	.13	<.01		2.63	.015		.21
	ND		630	40 45 45 50	Y8 x 2 Y2 2" Y2 x 2	qtz - chl - py - (cp) qtz - py - (cp) qtz - epi - (py) qtz - (carb)	0.5	(hem) "staining"		627	95	73	70789	.06	<.01		1.11	.001		.07
	ND to 40 wk		640	60 45 40	2" Y2 x 2 3"	massive qtz and chl qtz - (carb) qtz - ser - py - (cp)	0.5	brx = gg		637	98	47	70790	.05	<.01		1.84	.013		.12
	ND		650	40 45 35	Y8 x 3 2" Y8 x 3	qtz - chl - py - (cp) qtz - mo - py - (cp) qtz - chl - py - (cp)	0.5	hem "stained" core some hem on fractures.		647	99	77	70791	.05	<.01		1.37	.016		.10

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

Bottom Depths: Zone	Estimate	Actual
Overburden		
Leach Cap		
Oxide		
Supergene		

Rock Types and Alteration	Foliation Angle & Intensity	Graphic Log Footage	Structure (veins) Angle to Core Axis	Structure (veins) Width	Mineralization	Estimate % Pyrite	Remarks	Footage Blocks	Estimate % Core Recovery	R.Q.D.	Sample Number	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	Estimate % Total Cu Grade
	ND	660	30?	3/4"	qt3-(carb); py-(cp) in brx and gg	0.5	str hem on fractures; brx + gg	657	98	50	70792	.04	<.01		1.32	.002		.08
	35 wR	670	60; 50	1/2x2; 1"-1/2	qt3-py; qt3-py-(cp)	? 0.5	hem on fractures and "staining" core; mod to str hem 665 to EOH	667	98	20	70793	.09	<.01		2.14	.002		? .10
	?	680			Py-(cp) seen in places within fault zone	? 0.5	MAJOR FAULT ZONE 668 to EOH; str gg - brx; all brx has a crushed look	677	92	7	70794	.08	<.01		1.50	.002		? .09
	?	690				? 0.5		687	90	10	70795	.08	<.01		1.11	.001		? .08
	?	700				? 0.5	str gg - str hem; gg fairly competent	697	93	7	70796	.05	<.01		1.82	.003		? .07
	?	703					END OF HOLE	703	95									

M.E. Barker

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

LOCATION GM CLAIMS	BEARING –	LATITUDE (N) 51695	hip chain and compass	CORE SIZE NQ	LOGGED BY G. Grubisa
DATE COLLARED April 25, 1998	LENGTH 607'	LONGITUDE (E) 60010		SCALE OF LOG 1" = 10'	DATE April 28, 1998
DATE COMPLETED April 26, 1998	DIP -90	ELEVATION 4365		REMARKS	

ROCK TYPES and ALTERATION SYMBOLS

- GRANITE MTN. TRONDJHEMITE
- CHL DARKENED GRANITE MTN. TRONDJHEMITE

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock; fault gouge; ↑ increase; ↓ decrease; ( ) minor amount; (( )) very minor amount

altn = alteration, az = azurite, bo = bornite, brx = broken rock, bx = breccia, carb = carbonate, cc = chalcocite, chl = chlorite, chry = chrysocolla, cp = chalcopyrite, cup = cuprite, diss = disseminated, ep = epidote, gg = gouge, gr = garnet, gyp = gypsum, hem = hematite, lim = limonite, mag = magnetite, mal = malachite, MnO_2 = pyrolusite, Mo = molybdenite, mod = moderate, nat Cu = native copper, ND = non directional, pied = piedmontite, py = pyrite, qtz = quartz, rx = rock, saus = saussurite, ser = sericite, sph = sphalerite, str = strong, StWk = stockwork, ten = tenorite, wk = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	8	8
LEACH CAP	—	—
OXIDE	—	—
SUPERGENE	62	70

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
					CASING TO 13'													
(13-607') GRANITE MTN. TRONDJHEMITE 40-50% QTZ → occurring as very	ND	20	50 5	¼" ⅛"	qtz-lim-(py) lim-(py) mod-str lim stainings in fractures	<.5	13-21' → vuggy, limonitic core w/ traces of py. core almost appears leached but there is traces of py.	17	85	40	68801	.01	.01		1.92	.023		.05
distinct grains. Sizes range from 1/16-¼" in diameter. 40-50% PLAG FSP → also occurring as distinct grains, esp. euhedral laths floating in the qtz rich matrix.	ND	30	30 70 5+30x3 60 30	¼+⅛" 1/16"x5 ⅛"+⅛"x3 ⅛" 1/16"x3+⅛"	lim-(py) lim-(py)-((ten?)) chl-py-(qtz) lim-ser lim-((py))	<.5	19-21' → ↑ in qtz content lim on fractures thruout most of interval. ↑ intense lim staining	27	100	63	68802	.06	.02		1.39	.002		.05
10-20% CHLORITE * Sulfide mineralization in hole consists of py-cc near surface grading to py-(cp) at depth. The cp almost exclusively occurs w/ pyrite.	ND	40	60 50	1/16-⅛"x3 ⅛"x3	(chl)-py-((cc)) qtz-ser-py-((cc))-((cp)) minor lim on fractures	.5		37	98	90	68803	.03	.01		.90	.001		.05
* The Granite Mtn. Trondj. is moderately saussuritized throughout the hole. Small zones of Chl darkening exist	ND	50	20-40 60 5-60	¼"x3 1' ¼" 1/16-⅛"x6	chl-py-(qtz) qtz-ep-chl mottled zone intense lim-vuggy lim-(py)	<.5	minor lim on frac.	47	100	73	68804	.06	.01		1.06	.001		.03

4355

/home/rydman/explor/log_sheet.dwg

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG H

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG (Type, Alt, Footage, Structure)	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER
	ND	60	 10 45 30-60 70+30	8" ¼" ½" ⅛-¼"x4 ⅜"+⅛"	brKrx→lim lim-qtz qtz-ser-py-cc qtz-py-cc-((cp)) qtz-py-cc-(chl)	.6	*cc occurs as coatings on py + as a solitary mineral. ←abundant cc	57	100	67	688
	ND	70	30 70	⅛"x3 ½"	qtz-chl-py-cc-((cp)) qtz-chl-py-cp	.5		67	100	83	688
76-83' → slight ↑ in chl content 81-83' → grain boundaries become less distinct as chl inundates area + foliation (70°) becomes prevalent.	ND	80	60 50	⅜" ⅛"x3	qtz-chl vn qtz-chl-py } lim on fractures	<.5		77	100	77	688
	70 mod to ND	90	20 60	½" hrln 8"	qtz-chl-py } intense chl altn lim on Frac brKrx	<.5		87	100	53	688
	ND	100	50 0-10	2' ⅜"x2 ⅜"	brKrx qtz-chl-py-((cp)) chl-ep-qtz	<.5		97	100	70	688
103-06' → Fe staining? of qtz xtals producing an orange tint of the qtz grains.	ND	110	5-30	⅛-⅜"x6	qtz-chl-py-cc-(cp)	.5	←Trace lim on fractures	107	100	93	688

WESTMIN RESOURCES LIMITED — GIBRALTAR MINE — DIAMOND DRILL LOG — Hole No. 98-3 — Page 3 of 11

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Altn Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu MINERAL
					40	⅛"	qtz-(chl)-py-(cc)														
	ND				80	¼"	chl-qtz (cc) on fractures	<.5			117	95	57	68811	.08	.01		.73	.001		.07
119-20' → ↑ in ep-chl altn resulting in a more pronounced foliation			120																		
	ND				30-60	⅜"x3	chl-tim-py-cc		← cc as coatings on py			95								
					5-70	⅛"x6	chl-(py)-((cc))	.5	← clay on fractures		127		53	68812	.14	.03		.80	.001		.10
128-31' → Fe staining of qtz grains producing an orange tint in the qtz-(as before)			130																		
	ND				30	¼"	qtz-(chl)-(py)					98									
					80	⅛"	cord vn.	<.5	slight ↑ ep altn in the form of stringers		137		73	68813	.05	.02		.90	.001		.05
			140		45	¼"	qtz-py-(cc)														
						1"	bxK rx → lim														
143-45' → Fe staining of qtz grains (as above)	ND				30	½"x3	qtz-chl-py-(cc)	.8	↑ in foliation → unaltered biotite found occurring along foliation planes.		147	95	63	68814	.10	.02		2.43	.011		.10
					20	16"	foliated zone w/ ↑ chl-py-relict biotite														
Py occurs @ HW + FW of vein but not in middle. →			150		30	9"	qtz-chl-py-(Mo) vn														
						2'	bxK rx → (cc) on frac-lin.														
	ND				brkd network		qtz-tim-chl-py-(cc)-(Mo) slightly vuggy	.5	151-81' → sporadic lim as staining + on fractures		157	100	40	68815	.12	.03		1.20	.001		.11
			160		30	brkd x3	qtz-chl-py-((Mo))					43"									
					70	6"	bxK qtz vn.														
					30	1"	qtz-cb vn														
	ND					1"x2	qtz-chl-py-(Mol-lim-((cc))	.6				100	47	68816	.07	.03		1.44	.001		.10
					30	⅛"x2	qtz-chl-py-(Mo)				167										
			170																		

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-3 Page 4 of 11

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Type & Attn / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FRACTURE FILLINGS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL SULPHIDE CONTENT
	ND	180	70	3"	brk rx → stringers on frac. 1"x2 qtz-chl vn	<.5		} biotite intermixed w/ dark chl along fracture planes	177	90	30	68817	.04	.02		1.29	.001		.05
	ND	190		8"	brk rx → hem } hem on frac.	<.5		↓ end of sporadic lia zone 184-90' → slight ↑ ep altn in form of ep stringers	187	85	53	68818	.02	.01		0.76	.001		.03
198.5'-202' → QTZ-SER-PY ALTN.	ND to 60 and	200	30 30	6' ⅛"x3 2"	brk rx/gg → py stringers qtz-ser-py massive py vn	3.0		196-98.5' → ↑ ser-py content	197	100	17	68819	.03	<.01		2.65	.009		.12
- altn has invaded the host rock replacing all granular fabric that is typical of the Granite Mtn Trans. - Zone is well foliated	60 and to ND	210	30	1" 1"	qtz-py-Mo brk qtz-py-Mo vn } diss py thruout	2.0		↑ Mo for interval	207	95	30	68820	.06	<.01		2.63	.019		.12
	ND	220	60 5-40 30 50	½" ⅛"x8 ⅛"x2 ¾"	qtz-chl-py qtz-chl-py-(cp) qtz-py-chl qtz-chl-py-(cp)	1.8			217	100	37	68821	.07	<.01		1.75	.002		.13
	ND	230	20-70 70 50	⅛-1"x15 1" ½"	qtz-ser-py-(cp)-(Mo) qtz-py-Mo vn qtz-ser-py	3.0		221-26' → ↑ ser-chl content numerous py stringers	227	100	67	68822	.04	.01		3.30	.020		.20

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-3 Page 5 of 11

ROCK TYPES and ALTERATION	POLARIZING ANGLE & INTENSITY	GRAPHIC LOG Alpha / Beta / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERED	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDE
	ND	240	50 40	3/8" 1/2"	qtz-ser-chl-py qtz-chl-py-(cp)	<.5		237	106" 100	17 97	68823	.02	<.01		0.78	.001		.05
	ND	250	50 50	3/8"x4 1/4"	qtz-chl-py-((cp)) qtz-chl-py	.8		247	100	87	68824	.03	<.01		0.92	.001		.07
	ND	260	 60	6" 1/8"x4	brxtrx→(hem) qtz-chl-py	<.5	} slight ↑ in chl content	257	95	57	68825	.03	<.01		0.84	.001		.03
	ND	270	20 20 30	1/8"x2 3/8" 1/16"x2	qtz-chl-py qtz-ser-chl-py-(cp) qtz-chl-py	<.5		267	100	83	68826	.04	<.01		0.90	.001		.05
	ND	280	20 40 0-10	1/16"x4 1/4" 1/16"x8	qtz-chl-py-((:p)) qtz-chl-py lim on frac.	<.5	275-78' → steeply dipping frac. w/ lim coatings.	277	100	57	68827	.09	<.01		0.87	.001		.05
	ND	290	70 60	1/16"x5 1/8"x3	cp stringers qtz-ser-(chl)-py-((cp))	<.5		287	100	73	68828	.03	<.01		0.79	.001		.05

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-3 Page 6 of 11

ROCK TYPES and ALTERATION	POLARIZED ANGLE & INTENSITY	GRAPHIC LOG Alt. Type % Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDE
	ND	300	60 5-20 60 50	⅛"x2 8" zone 5" zone ¼"x4	qtz-ser-chl)-py-((cp)) qtz-ser-chl-py-Mo qtz-ser-chl-py-Mo qtz-(chl)-py	1.0		297	100	67	68829	.05	<.01		1.37	.002		.06
	ND	310	70 5-30 70	2" hair 1"	qtz-chl vn py-((cp)) qtz-chl vn	<.5	305-23' → ep stringers @ varying orientations	307	100 2'	20 73	68830	.03	<.01		0.87	.001		.05
	ND	320	40 30-70	⅛"x6 ⅛-½"x10	qtz-chl-py-(ser) qtz-chl-py-(ser)	1.0		317	100	77	68831	.03	<.01		0.85	.001		.05
	ND	330	10 20-60 30	⅛" ⅛"-½"x6 2" zones x4	qtz-chl-py qtz-ser-chl)-py qtz-ser-chl-py	1.8		327	100	80	68832	.06	<.01		1.41	.001		.10
	ND	340	60 30-60	3" ⅛-1"x15	qtz-ser-(chl)-py vn qtz-ser-chl-py	2.0		337	100	63	68833	.05	<.01		1.33	.002		.11
	ND		15	36"	wispy qtz-(chl)-py	<.5		347	100	33	68834	.03	<.01		0.82	.001		.05

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-3 Page 7 of 11

BOTTOM DEPTHS: ZONE | ESTIMATE | ACTUAL; OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE; REMARKS

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt. Type Min. Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu oxide
353-58' → ↓ qtz content grading more towards a Mine Phase Tonalite	ND	360	30 30	¼" ⅛"x2	qtz-(chl)-py qtz-py-(tm	<.5	357	100	73	68835	.02	<.01		0.73	.001		.03
368-91' → soussentitization appears to be more prevalent. (ie. a clean Granite Mtn. Tronj.)	ND	370	30-60 30	¼-2"x7 2"x8	qtz-ser-(chl)-py-((cp)) qtz-ser-(chl)-py-((cp))	1.5	367	95	63	68836	.03	<.01		1.48	.001		.10
	ND	380	90 20	7" 1"	chl-(ep)-(py) qtz-ser-py	.6	377	100 60"	90	68837	.02	.01		0.96	<.001		.04
	ND	390	30	⅛"x4	qtz-chl-py	<.5	387	100	6 77	68838	.02	<.01		0.74	<.001		.03
391-95' → chl dkned Granite Mtn Tronj. w/ (ser) Zone is sparsely-mod mineralized w/ py	ND	400	80 20-60 60	⅛" ⅛"-1"x10 ⅛"x2	qtz-Mo vn qtz-ser-chl-py qtz-chl-py	.7	397	100	70	68839	.02	<.01		0.99	.001		.11
	ND	410	40-60 30	¼"x7 ⅛"	qtz-(ser)-chl-py-(cp) qtz-ser-py-(cp)	.5	407	100	70	68840	.02	<.01		0.91	.001		.10

Remarks: ⅛ hem stained core.

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

Hole No. 98-3 Page 8 of 11

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu
	ND	420	 60 60	6" zone ½"x2 1/16"	qtz-ser-chl-py-cp qtz-chl vn py-cp	.7		417	100	70	68841	.03	<.01		0.87	.001		.13
	ND	430	20 10	⅛"x3 hrln	qtz-chl-py-(ser) py-((cp))	<.5		427	100	80	68842	.02	<.01		0.66	.001		.05
	ND	440	70 50 50 50	⅛"x4 ½" ½" ½"	qtz-py-chl qtz-ser-py qtz-ser-py qtz-ser-py-cp	.7		437	100	57	68843	.03	<.01		1.00	<.001		.07
	ND	450	30	⅛-½"x4 4'	qtz-ser-chl-py brkrx + py frac within	.5	} slight ↑ chl content	447	98	33	68844	.03	<.01		1.39	.001		.06
	ND	460	30 30 20-60	⅛"x3 ½" ⅛"-1"x10	qtz-ser-py qtz-ser-py-cp (Mo) vn qtz-ser-py-chl-((cp))-(Mo))	.8 2.0		457	91" 95	10 67	68845	.05	<.01		1.09	.002		03 .14
	ND	470	90 50 0	¾" 1½" ¾"	qtz-ser-chl-py qtz-ser)-py-Mo vn gg w/py	.7		467	100	17	68846	.03	<.01		1.35	.005		.07

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-3 Page 9 of 11

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alfa Type & Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	% TOTAL Cu OXIDE
	ND	480	70 30-60	2" 2"x3	qtz-chl vn qtz-ser-chl-py	1.5		477	100	53	68847	.04	<.01		1.48	.002		.07
Sta. defined @ 70° foliation	ND	490	0-20 0-20	½-⅝"x15 16" zone 5" zone	qtz-chl-py qtz-ser-chl-py-(cp) qtz-ser-chl-py	2.5		487	100	27	68848	.08	<.01		1.95	.001		.18
	ND	500	40 60 70	½"x2 1"x2 2"	qtz-ser-chl-py qtz-(ser)-py-Mo vn qtz vn	<.5	↑ Mo-bar interval	497	100	47	68849	.03	<.01		.92	.004		.06
	ND	510	30 30-60 20	1" ½-1"x10 ½"	qtz-ser-py-((cp)) qtz-ser-chl-py-(cp) qtz-ser-chl-py	1.5		507	100	63	68850	.07	<.01		1.29	<.001		.18
	ND	520	70 30	¾" ½"	chl-(carb)-py qtz-chl-carb vn	<.5		517	100	80	68851	.01	<.01		.77	.001		.03
	ND		60	½"	qtz-ser-py	<.5	528-39' →	527	100	17 80	68852	<.01	<.01		.65	<.001		.03

WESTMIN RESOURCES LIMITED **GIBRALTAR MINE** **DIAMOND DRILL LOG**

Hole No. 98-3 Page 10 of 11

Bottom Depths (Zone / Estimate / Actual): Overburden; Leach Cap; Oxide; Supergene

ROCK TYPES and ALTERATION	Foliation Angle & Intensity	Graphic Log Footage	Structure (veins) Angle to Core Axis	Structure (veins) Width	Mineralization	Estimate % Pyrite	Remarks	Footage Blocks	Estimate % Core Recovery	R.Q.D.	Sample Number	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	Estimate % Total Cu Grade
-37' → FAULT ZONE …od hem @ FW+HW of zone but no …m w/in gg zone. Sericite common in …g zone.	ND	540		4'	flt zone → brx/ggw ↑ser-py	.7	hem staining of core cont'd	537	100	30	68853	.02	<.01		1.13	.001		.07
47' → Sauss. disappears + is replaced … chl altn.	ND	550	10 70 70 60	1/2" 1/2" 1/2" 1/8"x2	qtz-ser-chl-py qtz-chl-(carb) vn qtz vn chl-py	<.5		547	100	83	68854	.02	<.01		.66	.001		.03
	ND	560				<.5		557	100	90	68855	.02	<.01		.84	.001		.01
	ND	570	30 70	1/16"x2 1"	qtz-chl-py qtz vn	<.5		567	100	90	68856	.02	<.01		.91	.001		.03
	ND	580	30 5-20	1/16" 1/4"x4	py-cp qtz-chl-ser-py	.5		577	100	47	68857	.04	.01		1.44	.001		.06
	ND		60 [illegible]	1/8" [illegible]	qtz-chl-(py)-Mo [illegible]	.5	↑Mo for interval	[illegible]	100	57	68858	.04	<.01		1.19	.005	-	.06

WESTMIN

WESTMIN RESOURCES LIMITED   GIBRALTAR MINE   DIAMOND DRILL LOG

Hole No. 98-3   Page 11 of 11

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS$_2$	oz/ton Ag	ESTIMATE %
			70	1"x2	qtz-chl-(carb)-((cp)) vn													
	ND		70	3"	qtz-chl-carb vn	<.5		597	100	60	68859	.02	<.01		1.00	.001		.05
		600	20	1/5"	py-cp?				50"									
			70	1/4"x2	qtz-chl vn					4								
	ND	607				<.5		607	100	100	68860	<.01	<.01		.59	.001		.01
					607' EOH.													

BOTTOM DEPTHS ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

WESTMIN RESOURCES LIMITED — GIBRALTAR MINE — DIAMOND DRILL LOG

Hole No. 98-4 Page No. 1 of 8

LOCATION GM CLAIMS AREA	BEARING —	LATITUDE (N) 51240	CORE SIZE NQ
DATE COLLARED April 26, 1998	LENGTH 457'	LONGITUDE (E) 60050 (hip chain and compass)	SCALE OF LOG 1" = 10'
DATE COMPLETED April 27, 1998	DIP 90°	ELEVATION 4360	REMARKS

LOGGED BY Dick Poon DATE May 3, 1998

ROCK TYPES and ALTERATION SYMBOLS

☒ GRANITE MOUNTAIN TRONDJHEMITE

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock; fault gouge; ↑ increase; ↓ decrease; ( ) minor amount; (( )) very minor amount

altn = alteration, az = azurite, bo = bornite, brx = broken rock, bx = breccia, corb = carbonate, cc = chalcocite, chl = chlorite, chry = chrysocolla, cp = chalcopyrite, cup = cuprite, diss = disseminated, ep = epidote, gg = gouge, gr = garnet, gyp = gypsum, hem = hematite, lim = limonite, mag = magnetite, mal = malachite, MnO_2 = pyrolusite, Mo = molybdenite, mod = moderate, nat Cu = native copper, ND = non directional, pied = piedmontite, py = pyrite, qtz = quartz, rx = rock, saus = saussurite, ser = sericite, sph = sphalerite, str = strong, SWk = stockwork, ten = tenorite, wk. = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	28'	28
LEACH CAP	—	—
OXIDE	—	—
SUPERGENE	175'	

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS$_2$	oz/ton Ag	ESTIMATE % TOTAL Cu
							CASING TO 27'				↑							
GRANITE MOUNTAIN TRONDJHEMITE: Qtz 30 to 50%	ND	30	40°	hrln to ⅛" x 3	qtz-chl-py-cc-(cp)		- ovb down to 28' - plag rich (50 to 55%),			—								
Chl 5 to 15% Plag 40 to 50% Saussurite alteration is wk to mod throughout hole. Qtz content and grain size fluctuates throughout hole, but large (¼") qtz	ND to 60° wk	40	40°; 50°; 40°; 30° to 40°	hrln to ⅛" x 3; ⅛"; ⅛" x 2; hrln to ⅛" x 4	qtz-py-cc-cp-lim; qtz-chl-(cp)-(cc); qtz-chl-py-cp-cc; qtz-chl-py-lim-(cp)	1.0	chl (5-10%), qtz (40-45%) zone, at start of hole down to 35' where chl ↑↑ and wk foliation can be seen. - no cu-oxide minerals visible	37	95	37	68937	.43	.08		1.63	.005		.30 (0.20 666)
blebs typically visible. Low diss sulphide mineralization, with the majority of the sulphides restricted to qtz-rich veins. (27' to 457')	ND	50	brx+gg; 30°; 70° to 80°	¼" x 2; ½" x 2	plag-qtz-chl-lim-(py)-(cc); qtz-chl-py-((cc)); qtz-chl-lim-(py)-(cc)-(cp)	<.5	- hole starts in the supergene zone, with py grains coated by cc, in veins and fractures. - possible (nat Cu) + (cup) in fracture at 49'	47	85	33	68938	.28	.07		2.44	.006		.25 (9310)
	ND to 60° wk	60	70°; 40°; 30° to 40°	⅛"; ⅛" x 3; ½" x 2	qtz-ep-chl-lim-(py)-(cup)?; qtz-py-chl-(cc); qtz-chl-lim-py-((cc))	<.5		57	98	40	68939	.18	.04		2.20	.015	.	.15

/home/rydmon/autor/log_sheet.dwg

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-4 Page 2 of 8

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt. Type & Structure / Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu MINERAL
	ND to 80°wk	70	30°to40°	$\frac{1}{8}$"to$\frac{1}{4}$"x3	gtz-py-chl-(cc)	<.5	- Sharp increase in carb content	67	98	53	68940	.10	.03		1.74	.002		.15
			40°	hrlnx2	gtz-chl-py-(cc)													
			40°to 80°	$\frac{1}{2}$"to1"x3	gtz-carb-chl-lim													
				2"	gtz-carb-chl-((cpl)-(cc))													
	ND to 40°wk	80	80°	$\frac{1}{4}$"x2	gtz-chl-(cp)-(py)	0.5	- first visible of Mo, at 75', within a large (2") gtz-rich vein	77	98	60	68941	.20	.02		1.65	.010		.15
			20°	$\frac{1}{8}$"	gtz-chl-py-(cp)													
			20°	2"	gtz-carb-chl-(cp)-(Mo)													
			40°	$\frac{1}{4}$"x2	gtz-chl-py-((cpl)-((cc))													
	ND to 40°mod	90	40°	$\frac{1}{8}$"to$\frac{1}{4}$"x3	gtz-chl-py-cp-(cc)	0.5		87	97	60	68942	.21	.03		2.33	.003		.10
			40°	hrlnto$\frac{1}{2}$"x3	gtz-chl-py-lim													
			40°	hrlnx6	gtz-chl-py-lim													
	ND to 40°mod	100	20°	$\frac{1}{4}$"to$\frac{1}{2}$"x2	gtz-chl-lim-(py)	1.0		97	97	63	68943	.33	.01		2.26	.022		.20
			40°	$\frac{1}{8}$"to$\frac{1}{4}$"x3	gtz-chl-py-cc-(cp)													
			30°to40°	hrlnto$\frac{1}{4}$"x2	gtz-chl-py-Mo-cp-cc													
			40°	$\frac{1}{8}$"to1$\frac{1}{2}$"x2	gtz-carb-chl-(py)-(lim)													
	ND	110	40°	1$\frac{1}{4}$"	gtz-py-carb-lim-(cp)	0.8		107	100	63	68944	.13	.01		2.40	.002		.10
			40°	hrlnx3	gtz-chl-py-lim-(cp)													
			40°	$\frac{1}{2}$"	gtz-carb-chl-(py)-(cc)													
			30°to40°	hrlnto$\frac{1}{8}$"x3	gtz-py-chl-lim-((cc))													
	ND to 40°wk	120	40°	hrlnx2	gtz-chl-py-lim-(cp)-(cc)	0.7		117	100	77	68945	.07	.01		2.54	.001	-	.10
			40°	$\frac{1}{4}$"	gtz-chl-py-(cp)													
			30°	$\frac{1}{8}$"to1"x2	gtz-py-carb-Mo-((cc))													

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-4 Page 3 of 8

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alln Type Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDE
	ND to 40° wk	130	40°	$\frac{1}{8}$" to $\frac{1}{4}$" x3	gtz-carb-py-chl-lim	0.6		127	98	43	68946	.07	.01		1.53	.001		.12
			40°	hrln x3	gtz-chl-py-(cc)													
			40°	hrln x3	gtz-chl-py-lim													
			40°	2"	gtz-carb-(py)-(cp)-(lim)													
	ND to 40° str	140	40°	$\frac{1}{8}$" to $\frac{1}{4}$" x2	gtz-py-carb-lim-(cp)-(cc)	0.8	- chl content and foliation increases sharply at 137'	137	100	53	68947	.14	.01		2.05	.006		.24
			40°	1"	gtz-carb-chl													
			40°	$\frac{1}{4}$" x2	gtz-chl-py-cc-(cp)													
			30° to 40°	hrln x 6	gtz-py-chl-lim-cp													
	ND to 40°-50° str	150	40°	$\frac{1}{8}$" x3	gtz-chl-py-(cp)	1.0		147	98	57	68948	.13	.01		2.32	.007		.13
			70°	1½'	gtz-carb-chl-(py)-(cp)-(Mo)													
			40°	$\frac{1}{8}$" to $\frac{1}{4}$" x3	gtz carb-py-((cp))-((cc))													
	ND to 40° wk	160	30° to 40°	$\frac{1}{8}$" x2	gtz-py-chl-((cp))	0.7	- high py:cp ratio with small cp blebs occasionally visible.	157	99	73	68949	.10	.01		2.27	.003		.10
			40°	$\frac{1}{8}$"	gtz-py-chl-(cp)													
			40°	hrln to $\frac{1}{8}$" x3	gtz-chl-py-(cp)													
	ND	170	40°	hrln to $\frac{1}{8}$" x3	gtz-chl-py-(cp)-(cc)	0.8		167	100	80	68950	.06	<.01		2.00	.001		.17
			40°	$\frac{1}{4}$" x2	gtz-py-chl-lim-(cc)													
			20°	$\frac{1}{8}$"	gtz-py-carb-Mo-(cp)													
base chl ↑ altn from to 182'			40°	hrln x2	gtz-py-chl-cp													
	ND to			brx	1'	brx w/ (py)-((cc))	0.5		172	97	57	68951	.05	<.01		1.77	<.001		.10

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-4 Page 4 of 8

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

REMARKS

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt. Type & Intensity / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % SULPH. IN ORE
	ND	190	40° 48° 0°to10°	$\frac{1}{4}$" hrlnx2 $\frac{1}{8}$"	qtz-carb-chl-(py)-((cp)) qtz-chl-py-(cp) qtz-chl-py	0.5	187	98	60	68952	.06	<.01		1.78	<.001		.06
	ND	200	20°to30° 30°to40° 40°	$\frac{1}{4}$"x2 hrlnto$\frac{1}{2}$"x3 $\frac{1}{2}$"x3	qtz-chl-(py) qtz-chl-py-(cp) qtz-ep-chl	0.5	197	98	47	68953	.04	<.01		1.60	<.001		.05
-mod increase in ep↑ altn	ND	210	40° 70° 40°	hrlnx3 $\frac{1}{4}$" 10"	qtz-chl-py-((cp)) ep-qtz-chl qtz-py-(cp)-(M_o)	1.0	207	95	63	68954	.08	<.01		1.73	.007		.10
	ND	220	50° 30°to30° 30° 70°	$\frac{1}{4}$"x2 hrlnto$\frac{1}{2}$"x3 $\frac{1}{8}$"to$\frac{1}{4}$"x2 $\frac{1}{4}$"to1"x2	ep-qtz-chl qtz-chl-py-(M_o)-(cp) qtz-py-carb-chl qtz-carb-chl	0.7	217	99	83	68955	.02	<.01		1.81	.001		.04
	ND	230	50°to60° 30°to40° 40°	$\frac{1}{4}$"to$\frac{3}{4}$"x2 hrlnx2 2"	qtz-chl-carb qtz-py-chl-(cp) qtz-py-M_o-(cp)	0.5	227	98	67	68956	.04	<.01		1.66	.010		.08
	ND	247	40°to50° 40° 30°	$\frac{1}{2}$"to1"x2 hrlnx4 hrlnx2	qtz-chl-carb qtz-chl-py qtz-py-chl-cp	<.5	237	100	80	68957	.02	<.01		1.61	<.001		.05

- core is quite competent w/ few structures throughout (230' to 247')

- most of the intervals Cu comes from a large (10") qtz vein at 208'.

WESTMIN

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

Hole No. 98-4

BOTTOM DEPTHS		
ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS₂	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	250	30° 40° brx 40°	1/4"x2 hrlnx3 10" 1/8"	gtz-py-chl-((cp)) gtz-py-chl brx w/ gtz-chl-(py)-(Mo)-(cp) gtz-py-chl-Mo-((cp))	0.7		247	100	70	68958	.04	<.01		1.57	.003		.06
	ND	260	brx 10° to 20° 30°	9" 1/8"x2 hrln	brx w/ gtz-(py)-((cp)) gtz-chl-py-(cp) gtz-chl-py	0.5		257	94	67	68959	.08	<.01		2.07	.001		.04
-gradational contact w/ a ser-py rich zone (261' to 298'). Within this zone the chl ↓ (<5%), gtz (40-45%), plag (40-45%), ser (5-10%).	ND	270	40° 30° brx 10°	1/8" 4" 11" 1"	gtz-py-chl-(cp) gtz-py-ser brx w/ gtz-ser-(py)-(lim) gtz-py-ser-(cp)?	4.0	-small reocurrence of lim at 265'	267	93	73	68960	.03	<.01		1.78	.001		.07
	ND	280	10° 40° 40°	hrln to 1/4" x5 2" 1/4"	gtz-py-ser-((cp)) gtz-py-(Mo)-((cp))? gtz-py-ser-chl-Mo-(cp)	2.0		277	96	67	68961	.06	<.01		4.35	.004		.06
	ND	290	20° to 40° 40° 40° 30° to 40°	1/8" to 1/4" x 3 1/8"x3 hrlnx2 1/4"x2	gtz-py-carb-chl gtz-py-chl-(cp) gtz-py-chl-cp gtz-py-(carb)	1.0	-increase in cp:py ratio	287	98	63	68962	.11	<.01		2.32	.004		.09
ser+py↑ chl↑↑	ND	300	40° 30° brx	3/4" 6" 5'	gtz-carb-chl gtz-py-ser-Mo-(cp) brx+gg w/ gtz-chl-ser-py	7.0	-brx+gg correspond w/ the sharp increase in chl from 295' to 300'	297	95	27	68963	.11	<.01		2.11	.025		.15

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-4 Page 6 of 8

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alln / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDE
	ND	310	40° 40° 30°to40°	¼"x2 hrlnto½"x2 ⅛"x3	gtz-ser-py gtz-ser-py-(cp) gtz-py-Mo-(cp)	1.0		307	95	63	68964	.06	<.01		4.67	.013		.10
	ND to 40°wk	320	40° 40° 40°	hrlnx3 5" ⅛"x4	gtz-chl-py-cp gtz-py-Mo-(cp) gtz-chl-py-(Mo)-(cp)	2.5		317	99	73	68965	.07	<.01		1.42	.007		.07
	ND	330	80° 40° 40° brx 40°	¾" hrlnx4 1" 2' hrlnto¼"x5	ep-gtz-chl gtz-py-chl-(cp) gtz-carb-py-Mo-(cp) brx w/gtz-ser-py-(cp) gtz-py-chl-(Mo)-(cp)	3.0		327	97	50	68966	.08	<.01		1.47	.008		.14
ser+py↑↑	ND to 40°mod	340	40° 40° brx 30°	¼"x2 hrlnx4 1' ⅛"x2	gtz-ser-py-(cp) gtz-py-chl-(cp) brx w/gtz-ser-chl-py-(cp) gtz-chl-ser-py	2.5		337	96	67	68967	.07	<.01		2.38	.001		.16
	ND	350	30° 40° 40°	hrlnx6 ⅛"to¾"x4 3"	gtz-chl-py-(cp) gtz-carb-chl-(cp) gtz-carb-chl	0.7		347	100	77	68968	.07	<.01		2.21	.001		.09
	ND	360	40° 20° 40°	1½" hrlnx2 1¾'	gtz-carb-chl-(cp) gtz-chl-py-(cp) gtz	<.5	-large (2') barren gtz vein, from 358' to 360'	357	97	57	68969	.04	<.01		1.67	.002		.04

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-4 Page 7 of 8

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Ass. Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	PROBE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDE
	ND		370	40°	hrln x3		gtz-py-chl-(cp)	<.5			367	100	63	68970	.05	<.01		1.58	.001		.04
				70°	hrln x2		gtz-chl-carb														
				60°	hrln		gtz-chl-py-(cp)														
	ND		380	30°	hrln x2		gtz-py-chl-Mo-(cp)	1.0			377	98	47	68971	.07	<.01		1.97	.003		.10
				80°	¾"		gtz-py-carb-(cp)														
				40°	hrln to ⅛" x2		gtz-chl-carb-py-cp														
plagt, ser ↑				30°	¼"		gtz-carb-py-(Mo)-((cp))														
	ND		390	brx	1'		brx w/ gtz-ser-carb-(py)-((cp))	0.5			387	95	57	68972	.05	<.01		2.04	.004		.03
				40°	⅛" x 2		gtz-ser-py-(Mo)-((cp))														
				40°	2"		gtz-chl-carb														
	ND		400	40°	hrln		gtz-chl-py-((cp))	1.0			397	100	70	68973	.06	<.01		1.82	.001		.06
				30°	¼" x 2		gtz-py-ser-chl														
				40°	⅛" to ½" x 4		gtz-chl-ser-py-(cp)														
ep ↑	ND		410	20°	¼"		gtz-ser-py-chl-(cp)	0.7			407	99	77	68974	.09	<.01		1.52	.001		.05
				60°	¼" to 1" x 2		ep-gtz-chl														
				40°	⅛" to ¼" x 3		gtz-ser-chl-py-(Mo)-(cp)														
				40°	hrln x 6		gtz-chl-ser-py-((cp))														
	ND			40°	½"		gtz-py-ser-(Mo)-((cp))	1.0			417	98	67	68975	.06	<.01		2.30	.003		.06
				40°	¼"		gtz-ep-chl-(py)														
				40°	hrln x 3		gtz-py-chl-(Mo)-(cp)														

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-4 Page 8 of 8

ROCK TYPES and ALTERATION	FOLIATION ANGLE & DIVERSITY	GRAPHIC LOG Alfa Type / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL) OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDE
	NVB		40°	$\frac{1}{8}$" x 3	gtz-py-ser-(M_o)	1.5		427	100	67	68976	.05	<.01		2.49	.006		.08
			30°to40°	$\frac{1}{4}$"to$\frac{1}{2}$"x2	gtz-ser-py-chl-(M_o)-(cp)													
			40°	$\frac{1}{8}$"to$\frac{1}{2}$"x4	gtz-py-chl-ser-(M_o)-(cp)													
		430	40°	$\frac{1}{8}$" x 3	gtz-chl-py-Mo-(cp)													
ep↑	NVB		40°	hrlnto$\frac{1}{8}$"x2	gtz-py-chl-Mo(cp)	1.0		437	99	77	68977	.06	<.01		1.39	.001		.07
			50°	$\frac{1}{8}$"to$\frac{1}{4}$"x2	ep-gtz-chl													
			40°	$\frac{1}{8}$"to$\frac{1}{4}$"x3	gtz-py-(chl)-(cp)													
		440	40°	hrlnx4	gtz-py-chl-(cp)													
-strongly foliated section, from 448' to 452', contains ser↑ and most of the interval's py+cp. There appears to be a higher cp:py ratio within this foliated zone.	NVB to 40°str		30°	$\frac{1}{4}$"x2	gtz-chl-(cp)	1.0		447	97	60	68978	.07	<.01		1.48	.001		.10
			40°	hrlnx4	gtz-chl-py-(cp)													
			40°	$\frac{1}{8}$"to$\frac{1}{4}$"x2	gtz-py-chl-((cp))													
		450	30°	hrlnx4	gtz-chl-py-Mo-(cp)													
	NVB to 40°str		20°	5"	gtz-chl-((py))-((cp))	0.7	-at 452' there is a 2" band of gg w/ specks of hem, dipping at 30°.	457	99	70	68979	.07	<.01		1.24	.003		.12
			50°	$\frac{1}{8}$"	gtz-py-Mo-(cp)													
			30°to40°	hrlnx3	gtz-py-chl-(cp)													
					Rich Ross		457' E.O.H.											

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG

Hole No. 98-5

LOCATION: GM CLAIMS AREA	BEARING: —	LATITUDE (N): 51520 (hip chain and compass)	CORE SIZE: N.Q.	LOGGED BY: Murray Rydman	
DATE COLLARED: April 27, 1998	LENGTH: 740'	LONGITUDE (E): 59220 (hip chain and compass)	SCALE OF LOG: 1" = 10'	DATE: May 3, 1998	
DATE COMPLETED: April 28, 1998	DIP: -90°	ELEVATION: 4365 (hip chain and compass)	REMARKS:		

ROCK TYPES and ALTERATION SYMBOLS

- LEUCOCRATIC PHASE
- GRANITE MOUNTAIN TRONDJHEMITE
- LARGE VEIN

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock	altn = alteration	cp = chalcopyrite	mag = magnetite	qtz = quartz
fault gouge	az = azurite	cup = cuprite	mal = malachite	rx = rock
↑ increase	bo = bornite	diss = disseminated	MnO_2 = pyrolusite	saus = saussurite
↓ decrease	brx = broken rock	ep = epidote	Mo = molybdenite	ser = sericite
( ) minor amount	bx = breccia	gg = gouge	mod = moderate	sph = sphalerite
(( )) very minor amount	carb = carbonate	gr = garnet	nat Cu = native copper	str = strong
	cc = chalcocite	gyp = gypsum	ND = non directional	StWk = stockwork
	chl = chlorite	hem = hematite	pied = piedmontite	ten = tenorite
	chry = chrysocolla	lim = limonite	py = pyrite	wk. = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	7	7
LEACH CAP	—	—
OXIDE	100	110
SUPERGENE	195	180

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
		12			CASING TO 12'			12										
LEUCOCRATIC PHASE (12 - 47) • quartz-feldspar porphyry • 50 % plag	ND	20	20	hrln	qtz-chl-py	<0.3	lim-ten-Cu clay-mal on fractures throughout interval	17	80	27	68861	.06	.05		.86	.003		.25
40 % qtz <10 % chl • small to medium grain size • rock has grey appearance	ND	30	30×3	1/10"×3	qtz-py-(cc) ← mal on fracture	0.3	str lim-ten on fracture surfaces throughout interval	27	85	47	68862	.22	.15		1.16	.010		.08
	ND	40	20×2 20×3	1/8"+2/3" 1/10"×3	qtz-(py)-((cc)) ← mal within core qtz-(py)-((cc)) ← ((mal)) within core	0.3	lim-ten-Cu clay on fracture surfaces throughout interval	37	85	40	68863	.48	.37		1.11	.014		.15

4355

/home/rydman/autor/log_sheet.dwg

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-5 Page 2 of 13

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt. Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
GRANITE MTN. TRONDJHEMITE (47 – E.O.H.) • chl forming mod-str foliation (47–55)	ND			80	1"	qtz-py-Mo str mal-(cup) on fract	0.4		str lim on fractures throughout interval		85	13	68864	1.21	.45		2.15	.023		.28
	80-90 str		50	60	1"	qtz-py-lim-(cc) str cup on brx				47										
• 40 % qtz 45 % plag 15 % chl • varying degrees of saus alt'n	80-90 mod			60x2	⅛"x2	←ten on fracture qtz-chl-py-(cc)	<0.3		lim-cup on fractures throughout interval cup has various colours ranging between redish to yellowish (all turn white with HCl)		85	23	68865	1.14	.61		1.39	.017		.20
	ND		60			←az-mal within core				57										
• occassional intervals of Leucocratic Phase included (hole terminates in Leucocratic Phase)	ND			←az-mal within core			<0.3		lim-cup on fractures throughout interval		90	40	68866	.67	.39		1.17	.007		.22
				30x2	⅛"x2	qtz-py-(cc)				67										
			70	20	½"	qtz-(Mo)														
	ND			20x2	1½"+1"	qtz-py-(cc) ←(mal) within core	0.5		lim-(cup) on fractures throughout interval		90	27	68867	.40	.18		1.56	.021		.35
				?	3'	brx-py-cc-cup				77										
			80	20x2	⅛"x2	qtz-py-cc														
	ND			20	⅓"	qtz-(py)-(cc)	<0.3		lim-(cup) on fractures throughout interval		95	57	68868	.16	.05		.74	.001		.15
				70x2	⅛"x2	qtz-chl-py				87										
			90	80	½"	qtz-(lim)														
	ND			30x3	⅛"x3	qtz-py-cc	0.7		lim-cup on fractures throughout interval		95	30	68869	.19	.08		.94	.002		.30
				?	2'	brx w/str py & cc				97										

4310

WESTMIN RESOURCES LIMITED — GIBRALTAR MINE — DIAMOND DRILL LOG — Hole No. 98-5 Page 3 of 13

ROCK TYPES and ALTERATION	FOLIATION ANGLE & DIRECTION	GRAPHIC LOG Alt. Type Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL) OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE — REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERED	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MeS_2	oz/ton Ag	ESTIMATE % TOTAL Cu in core
↑ ser			?	2'	brx-(gg)-(lim) w/py-cc veins		lim on fractures		80									
	ND		20×3	1/16"×3	qtz-py-(cc)	0.4		107		33	68870	.17	.04		2.06	.002		.15
			20	1/8"	qtz-py													
		110	20×3	1/16"×3	qtz-py-(cc)													
			50×3	3/32"×3	qtz-(py)-(cp)-((cc))				90									
	ND		20	1/8"	qtz-py-cc	0.4		117		47	68871	.04	.01		.59	.001		.12
			50	3"	cp-(qtz)													
			20	1/8"	qtz-py-cc													
		120	40	1/2"	qtz-(chl)													
			30×3	1/16"×3	qtz-(py)				98									
	ND		30	1/16"	qtz-py-cc	0.3	← lim on fracture	127		63	68872	.03	.01		.48	.001		.05
		130	30×3	1/16"×3	qtz-py-cc		← lim on fracture											
			30	1/8"	qtz-py-cc		← lim on fracture		98									
			50	1/16"	qtz-py-(cc)		← lim on fracture											
	ND					0.3	← cup on fracture	137		67	68873	.06	.03		.74	.001		.10
							← lim on fracture											
		140			← mal-(cup) on fracture													
					← cup on fracture				98									
	ND		10	1/8"	qtz-chl-(py)	<0.3		147		53	68874	.04	.02		.73	.001		.05
		150																
			0-10	1/16"	qtz-py-(cc)				95									
			40	1 1/2"	qtz-py-cp-cc		← str cup on fracture											
	ND		20	1/8"	qtz-(py)	0.6		157		53	68875	.13	.01		1.83	.003		.15
			30	1/2"	qtz-py-(cc)													

WESTMIN RESOURCES LIMITED — GIBRALTAR MINE — DIAMOND DRILL LOG — Hole No. 98-5 — Page 4 of 13

ROCK TYPES and ALTERATION	POLARON ANGLE & INTENSITY	GRAPHIC LOG Axis as Type / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL) & REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu MINERAL
	ND	170	?	3½'	brx-(gg)-(lim)	0.3	← cup on fractures	167	75	10	68876	.14	.01		1.55	.002		.06
			?	2'	brx w/ py-cc vein													
	ND	180	0-10	⅓"	qtz-py-cc	0.4	← lim on fracture ← cup on fracture	177	90	37	68877	.09	.01		1.64	.004		.10
			?	2'	brx-(gg) w/ py-cc veins		← lim on fractures											
	ND	190	10x2	⅛"x2	qtz-chl-py } wk diss py assoc. w/chl	0.4	← lim on fractures	187	80	53	68878	.02	<.01		1.17	.001		<.03
	ND	200	50+60	¼"+⅓"	← wk py(cc) stringers qtz-chl	<0.3		197	95	63	68879	.01	<.01		.57	.001		.03
	ND	210	60	1"	qtz-py-(cc)	0.6		207	95	20	68880	.03	<.01		1.06	.001		.06
			20	⅔"	qtz-chl-((py))													
			?	1'	brx w/ qtz-chl-(py) vein													
	NP	220	80x6	¼"x6	qtz-(chl)-((py))	0.3		217	95	20	68881	.02	<.01		.64	<.001		<.03
			?	7'	brx w/ qtz-chl-((py)) veins													

WESTMIN

WESTMIN RESOURCES LIMITED **GIBRALTAR MINE** **DIAMOND DRILL LOG** Hole No. 98-5 Page 5 of 13

BOTTOM DEPTHS		
ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
first occurrence of cp →	ND	230	? 30 30	6' hrln 1/16"	brx w/ minor qtz-chl-(py) stringers ← 1' qtz-py-Mo vein qtz-chl-(cp) qtz-chl-py	0.4	← hem on fracture ← ep/pied alt'n	227	95	33	68882	.04	<.01		1.05	.020		<.03
	ND	240	? 50 ?	6" 8" 2'	brx-hem qtz-py-cp-(Mo) brx w/ 1" qtz-(py)-(cp) vein	0.6	} hem stain	237	90	40	68883	.07	<.01		1.21	.001		.08
	ND	250	30+40 40×6	1/2"×2 hrln×6	qtz-(py)-(Mo) chl-(py)	0.3	} hem stain	247	70	53	68884	.03	<.01		1.25	.001		.03
↑ ser }	ND	260	20-60 40	1/16"-1" hrln-1/16"	several qtz-py-(Mo) veins several qtz-chl-py stringers ←((cp)) with vein	1.8		257	85	20	68885	.08	<.01		3.17	.005		<.03
	ND	270	50 40×2 ?	1/16" 1/16"×2 2'	qtz-chl-(py) qtz-chl-(py) brx-bx-competent gg-carb ← hem on fractures	0.3	hem stain	267	90	33	68886	.03	<.01		1.35	.001		<.03
	ND	280	30 30×2 70 30×2	1/4" 1/16"×2 1/8" 1/16"×2	qtz-py-(cp)-(mag) qtz-chl-py qtz-Mo qtz-chl-py	0.4		277	95	40	68887	.03	<.01		.88	.005		.03

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-5 Page 6 of 13

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alfa Type Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu MINERAL
	ND	290	20-30 ?	1/16" 2'	several qtz-chl-py veins brx-(carb)-(gg)-((hem))	0.4			287	95	37	68888	.07	<.01		.83	.001		<.03
	ND	300	30 ?	2/3" 1'	qtz-(chl) brx-(gg)-(hem)-(carb)	<0.3		← wk hem stain ← hem on fractures	297	90	40	68889	.05	<.01		.85	.005		<.03
	ND	310	50 ? 60x4 ?	1/4" 3" 1/4"x2 1/4"+1/2" hrln	qtz gg-hem-carb qtz-(carb) stringers and blebs py	0.5			307	95	43	68890	.05	<.01		1.20	.006		<.03
	ND	320	?	3"	gg-carb wk diss and stringers py-(cp) assoc. w/ chl throughout interval	0.3		← hem on fractures	317	95	40	68891	.15	<.01		1.34	.009		.03
	ND	330			wk diss and stringers py-(cp) assoc. w/ chl throughout interval	<0.3			327	95	53	68892	.06	<.01		1.00	.011		<.03
	ND		0-20 ?	1/16"-1/2" 3 1/2"	flowing structure of qtz enriched core with chl-py-(cp) veins qtz-py-Mo-(cp) } wk diss and stringers py assoc. w/ chl	2.5			337	95	50	68893	.10	<.01		3.34	.160		.15

WESTMIN RESOURCES LIMITED — GIBRALTAR MINE — DIAMOND DRILL LOG — Hole No. 98-5 — Page 7 of 13

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt'n Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL) REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERED	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu MINERAL
↑ser	ND				20-40	hrln-¼"	numerous qtz-py-(cp) veins throughout interval	1.0		347	98	57	68894	.13	<.01		1.90	.014		.06
			350		10	½"	qtz-py-Mo-((cp))													
↑ser	40 mod				30	1½"	qtz-(carb)-py-Mo-(cp)	6.0	← massive py	357	98	40	68895	.10	<.01		6.14	.052		.08
					40	hrln-½"	numerous qtz-ser-py-(cp) veins throughout interval													
	ND to 40 wk		360																	
	ND																			
cremulated ↑ser ↑chl	60 mod				60	2½'	qtz-chl-ser-(carb)-py-(cp)	0.5		367	95	47	68896	.13	<.01		1.56	.016		.05
	30 str				30	2'	qtz-chl-ser-(carb)-py-(cp)													
	ND		370																	
chl alt'n ↑chl (370-390)							wk diss py-cp													
	ND				30×2	½"+⅓"	qtz-py	2.2		377	98	63	68897	.16	<.01		1.67	.025		.08
					80	8"	qtz-chl-(Mo)-(cp) } wk diss py-cp													
			380		40	1"	qtz-py-Mo-(cp) } wk diss py-cp													
							wk diss py-cp													
	ND				?	2'	brx-gg-carb-(lim)	0.3		387	95	53	68898	.18	<.01		2.28 mag?	.015		.10
					40	1"	qtz-mag-(cp)-(py)													
			390		30	1/10"	qtz-chl-cp													
↓chl and no sans alt'n giving rock grey colour, includes carb inclusions (390-439)					30	⅓"	qtz-chl-(carb)-(py)													
	ND				30	½"	qtz-chl-(carb)-mag-cp	0.3		397	100	63	68899	.19	<.01		1.44	.015		.06
					30	½"	qtz-chl-(carb)-cp													

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-5 Page 8 of 13

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type Alt'n Structure Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % SULFIDES IN CORE
	ND	410	? 70 30×5	1½' 6" ⅛"×5	brx-gg-carb qtz-carb-(cp) qtz-chl-py-((cp))	0.3			407	95	63	68900	.06	<.01		1.50	.007		.03
	ND	420	60 60	hrln-⅛" 1"	numerous qtz-chl-py-cp veins throughout interval qtz-(carb)-py	1.0			417	100	63	68901	.21	<.01		2.33	.020		.05
	ND	430	60 40×3 60-70	1/10" ⅛"×3 ⅛"-3"	qtz-chl-py qtz-chl-py-(cp) numerous veins of qtz-chl-py-(Mo)-(cp)	0.6			427	100	50	68902	.29	<.01		1.84	.028		.08
	ND	440	50 50 30	½" hrln-⅛" 1"	qtz-py-Mo-(cp) numerous qtz-chl-py-cp veins throughout interval qtz-carb-py	1.0			437	100	47	68903	.14	<.01		1.86	.016		.10
• typical trondjhemite with wk to mod sauss alt'n starts at 439'	ND	450	50×2 20 30	1"+½" ⅛" 1"	qtz-(chl)-(cp) qtz-chl-cp qtz-chl-(carb)	<0.3	wk hem stain		447	100	63	68904	.14	<.01		1.20	.009		.03
	ND		? 60 40	4" ½" hrln	brx-carb-(gg) qtz-chl-(carb) several qtz-chl-cp-py veins	<0.3	wk hem stain		457	98	70	68905	.18	<.01		1.16	.009		.05

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-5 Page 9 of 13

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt'n Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		470		50×2 40	3/8"+2" hrln-1/8"	qtz-cp-Mo several qtz-chl-cp-py veins	0.3		wk hem stain	467	98	63	68906	.13	<.01		1.27	.016		.06
	ND		480		40×2 40	1/8"×2 1/8"	qtz-chl-cp qtz-chl-(cp)	<0.3			477	98	47	68907	.11	<.01		1.40	.004		.03
	ND		490		40×2 30	1/2"×2 1/10"	qtz-py-(cp)-(Mo) qtz-chl-py	<0.3			487	100	73	68908	.10	<.01		1.45	.011		.05
	ND		500		0-40 60	1/4" 1/4"	qtz-Mo-(py) qtz-chl-(cp)-(Mo)	<0.3			497	100	73	68909	.04	<.01		1.30	.022		.03
	ND		510		30 50 40	1/2" 1/8" 1/2"	qtz-((py)) qtz-chl-(carb) qtz-cp	<0.3		hem stain	507	100	73	68910	.05	<.01		1.03	.017		.03
↑ chl alt'n (514-547)	ND				30 60 40 60	3" 1/8" 1/4" 1/4"	qtz-Mo-((py)) qtz-chl-(carb)-py-((cp)) qtz-cp-Mo qtz-chl-carb-cp	0.3			517	100	47	68911	.11	<.01		1.11	.012		.08
↑ ser	80 mod				80	hrln-1/4"	numerous qtz-chl-py-(cp) veins														

WESTMIN

WESTMIN RESOURCES LIMITED **GIBRALTAR MINE** **DIAMOND DRILL LOG** Hole No. 98-5 Page 10 of 13

ROCK TYPES and ALTERATION	FOLIATION ANGLE α / LINEATION	GRAPHIC LOG (Type, Alt'n, Footage, Structure)	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL) + REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERED	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu OXIDE
	ND	530	30×3 30×3 40×3	1/16"×3 1/16"+1/16"+1/4" 1/8"×3	qtz-chl-(carb)-py qtz-chl-(carb)-py qtz-chl-(carb)-cp-(py)	0.6	← wk hem stain py-(cp) stringers assoc. w/ chl	527	98	37	68912	.07	.01		1.54	.006		.10
	ND	540	20 ? 20	1/2" 7' 1/4"	qtz-(carb)-cp-(Mo) brx-gg-carb qtz-chl-carb-cp	0.3	py-(cp) stringers assoc. w/ chl } hem stain	537	90	30	68913	.16	<.01		1.45	.012		.12
	ND	550	40 60 50 40×2	6" 1/2" 1 1/2" 1/4"×2	qtz-(carb)-cp-py-(Mo) qtz-(carb)-cp qtz-(carb)-cp-py-(Mo) qtz-carb-chl-cp-py-Mo	0.4	hem stain	547	95	47	68914	.08	<.01		1.18	.005		.14
	ND	560	40 30×2 40 30×3 40	1/4" 1/8"×2 1/2" 1/2"+1/2"+1" 6"	qtz-(carb) qtz-chl-carb-cp-(py) qtz-(carb)-cp-py qtz-(carb)-cp-py-Mo qtz-(carb)-py	0.4		557	95	30	68915	.16	<.01		1.29	.010		.18
LEUCOCRATIC PHASE (557-575) • qtz-plag porphyry • large (1/16"-1/4") isolated qtz grains • < 5% chl	ND	570	40×3 50 50 50×3	1/16"×3 1/2" 1/4" 1/16"+1/4"+1/2"	qtz-(chl)-(py) qtz-yellow carb-(py)-(cp) qtz-(carb)-cp-py qtz-(carb)-py-(cp)-(Mo)	0.4		567	90	57	68916	.11	<.01		1.49	.007		.06
• carb between grains • grey colour	ND	con	? 40×2 ? 40×6 40	8" 1/4"+1/16" 8" 1/8"×6 1/2"	bx-gg-carb qtz-carb-cp bx-gg-carb qtz-chl-carb-py-cp-(Mo) qtz-chl-carb-py-cp	0.8	hem stain	577	95	47	68917	.16	<.01		1.45	.010		.22

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG H

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt. Type Int. Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE) REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAM NUM
	ND	590	~30 40×4 40	3" ¼"+2"+1"+⅓" ⅛"	gg-carb-hem qtz-(carb)-cp-py qtz-(carb)-cp	0.5	} hem stain	587	95	53	68
	ND	600	60 30×2 40×2 20×2 50	3" ⅛"×2 ½"×2 1/16"×2 ½"	qtz-Mo-((cp)) qtz-(carb)-cp-Mo qtz-chl-(carb)-(py)-(cp) qtz-chl-carb-py qtz-(carb)-(py)-(cp)	0.4	hem stain	597	95	43	68
	ND	610	50×2 30×2 50	½"×2 ⅓"×2 ½"	qtz-(carb)-py-cp-Mo qtz-chl-carb-(cp) qtz-(carb)-cp-Mo	<0.3	hem stain	607	100	70	68
	ND	620	50 50 50 50 30×3 40	¼" ½" ¼" ¼" ¼"×3 ½"	qtz-chl-carb-cp qtz-(carb)-cp-Mo qtz-chl-carb-cp-(Mo) qtz-carb-cp qtz-(carb)-cp qtz-(carb)-(py)-(cp)	<0.3		617	100	70	68
LEUCOCRATIC PHASE (617-647) • similar to previous Leucocratic Phase unit slight ↑ chl {	ND	630	40×4 40×3 40+50+60	¼"×3 + ⅜" ½"+¼"+2" ¼"+⅜"+¼"	qtz-(carb)-cp-py-Mo qtz-(carb)-cp-py-Mo qtz-(carb)-py-(cp)	0.5		627	98	63	68
	ND		20 40+50 40×2 40×3 80+40 40×2	1/16" ⅛"×2 2⅜"+1/16" 1/16"×3 2"×2 2"+2⅜"	qtz-(chl)-py qtz-carb-mag-(py)-(cp) qtz-(carb) X-cut by qtz-chl-cp qtz-(chl)-cp qtz-carb-Mo qtz-carb-cp-py-Mo	0.4		637	98	67	68

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-5 Page 12 of 13

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt. Type Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ESTIMATE / ACTUAL	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	650	0-50 50+50+40 40×2 30 30	½"-4" ⅛"+⅛"+½" ⅛"+2" ¼" ⅛"	stwk qtz-((carb)) qtz-(carb)-py-(Mo) qtz-carb-chl-cp qtz-(chl)-py-(cp) qtz-chl-cp	0.5	OVERBURDEN / LEACH CAP / OXIDE / SUPERGENE		647	98	67	68924	.22	.01		1.38	.003		.14
	ND	660	50 50 40×2 40×2 40×2	½" ⅛" ½"+1" 1/10"×2 ⅛"×2	qtz-(carb)-((py))-((cp))-((Mo)) qtz-(carb) qtz-(carb)-(py)-(cp) qtz-chl-py-cp qtz-(carb)-py-cp	0.5	hem stain	Note: drillers mislabelled block 657' as 667'. Reset blocks and hole is now 740' length instead of 750'	657	98	50	68925	.04	<.01		1.03	.004		.08
	ND	670	40×3 70 40 40×2	½"+¼"+⅜" ¼" ¼" ½"×2	qtz-(carb)-(cp) qtz-(carb)-(cp) qtz-ser-Mo qtz-(carb)-py-cp	0.4	hem stain		667	98	73	68926	.04	<.01		1.14	.013		.06
	ND	680	20 40×2	¼" ⅛"+¼"	qtz-(carb)-py qtz-(carb)-py	0.6			677	98	70	68927	.03	<.01		1.00	.004		<.03
	ND	690	20 30 60 60×2 60 60	¼" ½" 1" ¼" ⅛" 3"	qtz-(carb)-py qtz-(carb)-py-mag-(cp) qtz-(carb)-py-cp qtz-(carb) qtz-Mo-(cp) qtz-py-Mo	0.8	hem stain		687	98	47	68928	.08	<.01		1.52	.004		.05
	ND	700	10 40	½" 2"	qtz-(carb)-py-cp qtz-((Mo))-((py))	0.4			697	98	60	68929	.06	<.01		1.62	.012		.06

WESTMIN RESOURCES LIMITED GIBRALTAR MINE DIAMOND DRILL LOG Hole No. 98-5 Page 13 of 13

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt Type Alt Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FORMATIONS FROM	CORE RECOVERY %	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	% TOTAL Cu (CALC)
LEUCOCRATIC PHASE (702.5' - 709') • similar to previous Leucocratic Phase units	ND	710	20 40 30	1/16" 1" 1/4"	qtz-py-(cp) chl-qtz-carb qtz-(carb)	<0.3		707	100	73	68930	.07	<.01		1.63	.009		<.03
	ND	720	30 30 40	1/3" 1/4" 1/2"	qtz-chl-(carb) qtz-(chl)-(carb)-(py)-(cp) qtz-(carb)-py-(cp)	0.4	hem stain	717	98	57	68931	.06	<.01		1.40	.007		.03
LEUCOCRATIC PHASE (721.5' - 740') • similar to previous Leucocratic Phase units	ND	730	40 60 30 30 30	1/16" 1" 1/2" 1/2" 1/4"	qtz-chl-(py) qtz-((py)) qtz-((py))-((cp)) qtz-(carb)-py qtz-(carb)-cp	0.6		727	98	53	68932	.06	<.01		1.72	.005		.04
slight ↑ chl, but same general grey appearance	ND	740	20 0-20	1/8" 1/4"	qtz-(carb) qtz-carb-cp-py	0.3		737 740	95 98	60	68933	.07	<.01		1.52	.025		.06
							E.O.H. @ 740' Murray Pyhman											

APPENDIX C : ASSAY PROCEDURES

All core was bucked and assayed at the Gibraltar Mine laboratory facilities. The core was sampled in 3.05 metre (10 feet) sections (core was not split). Each sample was crushed and passed through a Jones Splitter to produce a small representative sample for pulverizing to 100 mesh. The pulverized material was used for assaying then stored as a "pulp" sample for an indefinite period of time. The splitter reject material was bagged and stored until assaying was completed then the "waste" rejects were discarded and the "high grade" rejects were stored at the mine for approximately one year.

The following assay procedures were applied to the samples:

Total Copper

Total copper analysis was carried out on 2 g samples dissolved in 15 ml of HNO_3 and digested until fumes were expelled. 20 ml of HCl was then added, with the sample digesting for a further five minutes. This solution was then bulked to 200 ml with H_2O. A portion of filtered solution was then assayed using standard atomic absorption techniques.

Acid Soluble Copper

Acid soluble copper analysis (oxide copper minerals) is carried out on 1 g samples dissolved in 50 ml of 30% H_2SO_4 for 90 minutes at room temperature, agitating regularly. The remaining solution was then bulked to 200 ml with H_2O. A portion of filtered solution was then assayed using standard atomic absorption techniques.

Acid Soluble Iron

Acid soluble iron analysis was done on 1 g samples dissolved in 15 ml of HNO_3. The sample was then boiled until fuming was finished, with an additional 20 ml of HCl being added and boiled until fuming was complete. The remaining solution was then bulked to 200 ml with H_2O. A portion of filtered solution was then assayed using standard atomic absorption techniques.

Molybdenum Sulphide

MoS_2 analysis was carried out on 2 g samples dissolved in 15 ml of a $KClO_3$ saturated HNO_3 and boiled until fuming was complete. 20 ml of HCl was then added, with digesting occurring for a further five minutes. $AlCl_3$ was added to bring the solution to excess of 1000 ppm Al. The remaining solution was then bulked to 200 ml with H_2O. A portion of filtered solution was then assayed using standard atomic absorption techniques.

APPENDIX D : ASSAY CERTIFICATES

Form. No. Mill - 1

98-1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

Date April 26 19 98

Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	As Fe		
70657	.07	.09	.003	1.06		
58	.06	.15	.009	1.37		
59	.02	.09	.006	1.31		
60	.11	.22	.010	1.42		
61	.11	.23	.065	1.07		
62	.06	.20	.009	1.40		

cc: Assay Lab.

98-1

orm. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

Date April 27 19 98

Sample No.	% Ox. Cu.	Total Cu.	% MoS2	As Fe		
70663	.08	.24	.022	1.23		
64	.03	.32	.066	1.16		
65	.07	.45	.010	1.01		
66	.02	.34	<.028	1.53		
67	.02	.62	.066	1.79		
68	.01	.39	.021	1.05		

cc: Assay Lab.

Form. No. Mill - 1

98-1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

Date April 29 19 91

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% As Fe		
70669	.02	.39	.020	1.37		
70	.01	.47	.036	2.12		
71	.01	.25	.010	.95		
72	.01	.33	.026	1.53		
73	.01	.22	.018	1.25		
74	.01	.35	.056	1.64		
75	<.01	.16	.014	1.28		
76	<.01	.16	.012	.91		
77	<.01	.15	.015	1.14		
78	<.01	.22	.011	1.07		
79	.01	.40	.049	1.78		
80	<.01	.12	.013	1.23		
81	.01	.26	.018	1.16		
82	.01	.27	.070	1.41		
83	<.01	.19	.009	1.02		
84	<.01	.15	.028	1.48		
85	<.01	.15	.031	1.24		
86	<.01	.12	.019	1.05		
87	<.01	.06	.026	1.16		
88	<.01	.06	.012	.76		
89	<.01	.06	.007	.94		
90	<.01	.09	.007	1.05		
91	<.01	.29	.027	1.36		
92	<.01	.27	.021	2.15		

cc: Assay Lab.

Assayer JJ

Form. No. Mill - 1

98-1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

Date 30 Apr 19 98

(98-1)

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	AS Fe		
70693	.01	.23	.023	1.58		
694	.01	.30	.020	1.71		
695	.01	.54	.033	1.82		
696	<.01	.16	.007	1.72		
697	<.01	.37	.052	4.43		
698	.01	.15	.008	2.18		
699	<.01	.08	.009	2.18		
700	<.01	.16	.004	2.51		
701	<.01	.08	.007	2.44		
702	<.01	.06	.002	1.25		
703	<.01	.07	.012	1.93		
704	<.01	.23	.011	2.06		

98-1

orm. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

98-1

Date 30 Apr 19 98

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% AS Fe		
70705	<.01	.08	.029	2.33		
" 706	<.01	.14	.010	1.15		
" 707	<.01	.05	.001	1.26		
" 708	<.01	.07	.003	1.93		
" 709	<.01	.04	.001	1.56		
" 710	.01	.08	.001	1.52		
" 711	<.01	.13	.004	2.39		
" 712	<.01	.13	.009	1.53		
" 713	<.01	.20	.010	2.02		
" 714	<.01	.08	.002	1.24		

cc: Assay Lab

Form. No. Mill - 1

98-1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

98-1

Date 1 May 19 98

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% As Fe		
70715	<.01	.33	.005	1.82		
" 716	<.01	.14	.002	2.37		
" 717	<.01	.20	.005	1.71		
" 718	<.01	.32	.011	2.02		
" 719	<.01	.10	.011	3.77		
" 720	<.01	.07	.006	2.08		
" 721	<.01	.08	.013	2.58		
" 722	<.01	.10	.002	2.33		
" 723	<.01	.09	.010	2.85		
" 724	<.01	.09	.002	2.94		
" 725	<.01	.15	.003	4.25		
" 726	<.01	.07	.003	2.47		

cc: Assay Lab.

Assayer D.A.W.

98-2

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration
98-2

Date 1 May, 19 98

Sample No.	% Cx. Cu.	Total Cu.	% MoS_2	% AS Fe		
70729	.07	.19	.004	1.28		
" 730	.10	.25	.011	1.57		
" 731	.04	.24	.006	1.73		
" 732	.04	.24	.020	2.41		
" 733	.01	.12	.002	1.46		
" 734	.01	.17	.003	2.13		
" 735	.01	.14	.022	1.58		
" 736	.01	.11	.007	1.46		
" 737	<.01	.24	.026	1.49		
" 738	<.01	.13	.030	1.58		
" 739	<.01	.10	.003	1.71		
" 740	<.01	.09	.006	1.62		

cc: Assay Lab.

Assayer D.A.W.

Form. No. Mill - 1

98-2

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration
98-2

Date 3 May 19 98

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% AS Fe		
70 741	<.01	.08	.007	1.25		
" 742	<.01	.10	.038	1.45		
" 743	<.01	.06	.007	1.87		
" 744	<.01	.07	.009	1.57		
" 745	<.01	.04	.007	1.34		
" 746	<.01	.04	.002	.98		
" 747	<.01	.05	.005	1.10		
" 748	<.01	.08	.003	1.07		
" 749	<.01	.07	.003	1.36		
" 750	<.01	.05	.001	1.15		
" 751	<.01	.06	.002	1.18		
" 752	<.01	.04	.001	.94		
" 753	<.01	.11	.004	1.20		
" 754	<.01	.09	.09	1.41		
" 755	<.01	.08	.003	1.00		
" 756	<.01	.08	.003	1.23		

2

98-2

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date MAY 07 1998, 19.....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% ASFe		
(98-2)	X	X	X	X		
70757	<.01	.08	.087	1.23		
" 758		.13	.005	1.10		
" 759		.09	.026	2.22		
" 760		.09	.008	0.90		
" 761		.06	.010	1.22		
" 762		.09	.002	0.65		
" 763		.32	.022	1.36		
" 764		.21	.011	2.8 X		
" 765		.19	.012	2.19		
" 766		.34	.012	2.60		

cc: Assay Lab.

TJ

Assayer .....

Form. No. Mill - 1

4

98-2

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date MAY 07 1998, 19.....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	%AS Fe		
(98-2)	X	X	X	X		
70767	2.01	.21	.018	3.56		
" 768	↓	.15	.004	1.88		
" 769		.16	.007	2.30		
" 770		.06	.002	1.51		
" 771		.17	.015	2.04		
" 772		.15	.010	1.63		
" 773		.03	.039	1.34		
" 774		.10	.102	1.25		
" 775		.09	.007	1.49		
" 776		.41	.010	1.92		
" 777		.21	.022	1.33		
" 778		.14	.012	1.79		
" 779		.28	.043	1.80		
" 780		.11	.010	1.40		
" 781		.22	.015	1.41		
" 782		.17	.008	1.87		
" 783		.20	.015	2.22		
" 784		.19	.029	1.88		
" 785		.08	.004	1.40		
" 786	✓	.16	.009	1.60		

cc: Assay Lab.

JJ

Assayer .....

Form. No. Mill - 1

3

98-2

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date MAY 07 1998, 19.....

Sample No.	% Cx. Cu.	Total Cu.	% MoS_2	% AS Fe		
(98-2)	~~~	~~~	~~~	~~~		
70787	C.01	.05	.002	1.35		
" 788		.13	.015	2.63		
" 789		.06	.001	1.11		
" 790		.05	.013	1.84		
" 791		.05	.016	1.37		
" 792		.04	.002	1.32		
" 793		.04	.002	2.14		
" 794		.08	.002	1.50		
" 795		.08	.001	1.11		
END HOLE " 796		.05	.003	1.82		

cc: Assay Lab.

JJ

Assayer

Form. No. Mill - 1

98-3

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

98-3

Date 3 May 19 98

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% As Fe		
68801	.01	.01	.023	1.92		
802	.02	.06	.002	1.39		
803	.01	.03	.001	.90		
804	.01	.06	.001	1.06		
805	.02	.13	.001	1.32		
806	.01	.11	.001	98		
807	.01	.07	.001	.81		
808	.01	.06	.001	.92		
809	.01	.07	.001	.63		
810	.01	.09	.001	.65		
811	.01	.08	.001	.73		
812	.03	.14	.001	.80		
813	.02	.05	.001	.90		
814	.02	.10	.011	2.43		
815	.03	.12	.001	1.20		

Form. No. Mill - 1

98-3

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

98-3

Date 3 May 19 98

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% AS Fe		
68816	.03	.07	.001	1.44		
817	.02	.04	.001	1.29		
818	.01	.02	.001	.76		
819	<.01	.03	.009	3.65		
820	<.01	.06	.019	2.63		
821	<.01	.07	.002	1.75		
822	.01	.04	.020	3.30		
823	<.01	.02	.001	.78		
824	<.01	.03	.001	.92		
825	<.01	.03	.001	.84		
826	<.01	.04	.001	.90		
827	<.01	.09	.001	.87		
828	<.01	.03	.001	.79		
829	<.01	.05	.002	1.37		
830	<.01	.03	.001	.87		
831	<.01	.03	.001	.85		

cc: Assay Lab.

Assayer P. A. W.

Form. No. Mill - 1

98-3

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

98-3

Date 4 May 19 98

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% As Fe		
68832	<.01	.06	.001	1.41		
833	<.01	.05	.002	1.33		
834	<.01	.03	.001	.82		
835	<.01	.02	.001	.73		
836	<.01	.03	.001	1.48		
837	.01	.02	<.001	.96		
838	<.01	.02	<.001	.74		
839	<.01	.02	.001	.99		
840	<.01	.02	.001	.91		
841	<.01	.03	.001	.87		
842	<.01	.02	.001	.66		
843	<.01	.03	<.001	1.00		
844	<.01	.03	.001	1.39		
845	<.01	.05	.002	1.09		
846	<.01	.03	.005	1.35		

cc: Assay Lab.

Assayer D. A. [illegible]

98-3

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

MAY 4 1998

Date ....., 19.....

98-3

Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	% AS Fe		
68847	<.01	.04	.002	1.48		
" 848	<.01	.08	.001	1.95		
" 849	<.01	.03	.004	.92		
" 850	<.01	.07	<.001	1.29		
" 851	<.01	.01	.001	.77		
" 852	<.01	<.01	<.001	.65		
" 853	<.01	.02	.001	1.13		
" 854	<.01	.02	.001	.66		
" 855	<.01	.02	.001	.84		
" 856	<.01	.02	.001	.91		

cc: Assay Lab.

Assayer

98-3

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

98-3

MAY 04 1998

Date ....., 19....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% AS Fe		
68857	.01	.04	.001	1.44		
858	<.01	.04	.005	1.19		
859	<.01	.02	.001	1.00		
860	<.01	<.01	.001	.59		
(END HOLE)	X	X	X	X		

Form. No. Mill - 1

98-4

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date MAY 05 1998, 19.....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% AS Fe		
(98-4)	X	X	X	X		
START HOLE 68937	.08	.43	.005	1.63		
" 938	.07	.28	.006	2.44		
" 939	.04	.18	.015	2.20		
" 940	.03	.10	.002	1.74		
" 941	.02	.20	.010	1.65		
" 942	.03	.21	.003	2.33		
" 943	.01	.33	.022	2.26		
" 944	.01	.13	.002	2.40		
" 945	.01	.07	.001	2.54		
" 946	.01	.07	.001	1.53		

cc: Assay Lab.

Assayer D.A.L.

98-4

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date MAY 05 1998 19.....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% AS Fe		
(98-41)	X	X	X	X		
68947	.01	.14	.006	2.05		
" 948	.01	.13	.007	2.32		
" 949	.01	.10	.003	2.27		
" 950	<.01	.06	.001	2.00		
" 951	<.01	.05	<.001	1.77		
" 952	<.01	.06	<.001	1.78		
" 953	<.01	.04	<.001	1.60		
" 954	<.01	.08	.007	1.73		

cc: Assay Lab.

Assayer

Form. No. Mill - 1

98-4

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

MAY 06 1998

Date ....., 19.....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% AS Fe		
(98-4)	<	<	<	<		
68955	<.01	.02	.001	1.81		
" 956	<.01	.04	.010	1.66		
" 957	<.01	.02	<.001	1.61		
" 958	<.01	.04	.003	1.57		
" 959	<.01	.08	.001	2.07		
" 960	<.01	.03	.001	1.78		
" 961	<.01	.06	.004	4.35		
" 962	<.01	.11	.004	2.32		
" 963	<.01	.11	.025	2.11		
" 964	<.01	.06	.013	4.67		

cc: Assay Lab.

JJ

Assayer

3

98-4

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

MAY 06 1998

Date ....., 19....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% As Fe		
(98-4)	X	X	X			
68965	<.01	.07	.007	1.42		
" 966		.08	.008	1.47		
" 967		.07	.001	2.38		
" 968		.07	.001	2.21		
" 969		.04	.002	1.67		
" 970		.05	.001	1.58		
" 971		.07	.003	1.97		
" 972		.05	.004	2.04		
" 973		.06	.001	1.82		
" 974		.09	.001	1.52		

Form. No. Mill - 1

98-4

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

Date MAY 12 19 98

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	As Fe	98-4
68975	<.01	.06	.003	2.30	
76		.05	.006	2.49	
77		.06	<.001	1.39	
78		.07	.001	1.48	
79		.07	.003	1.24	
68923	<.01	.13	.008	1.37	
24	.01	.22	.003	1.38	
25	<.01	.04	.004	1.03	
26		.04	.013	1.14	
27		.03	.004	1.00	
28		.08	.004	1.52	
29		.06	.012	1.62	
30		.07	.009	1.63	
31		.06	.007	1.40	
32		.06	.005	1.72	
33		.07	.025	1.52	

J J

98-5

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date MAY 05 1998

98-5

Sample No.	% Ox. Cu.	Total Cu.	% MoS2	% AS Fe		
(START HOLE)	X	X	X	X		
8861	.05	.06	.003	.86		
" 862	.15	.23	.010	1.16		
" 863	.37	.48	.014	1.11		
" 864	.45	1.21	.023	2.15		
" 865	.61	1.14	.017	1.39		
" 866	.39	.67	.007	1.17		
" 867	.18	.40	.021	1.56		
" 868	.05	.16	.001	.74		
" 869	.08	.19	.002	.97		
" 870	.04	.17	.002	2.06		

cc: Assay Lab.

Assayer

98-5

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

MAY 05 1998

Date ....., 19.....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% AS Fe		
68871	.01	.04	.001	.59		
" 872	.01	.03	.001	.48		
" 873	.03	.06	.001	.74		
" 874	.02	.04	.001	.73		
" 875	.01	.13	.003	1.83		
" 876	.01	.14	.002	1.55		
" 877	.01	.09	.004	1.64		
" 878	<.01	.02	.001	1.17		
" 879	<.01	.01	.001	.57		
" 880	<.01	.03	.001	1.06		

cc: Assay Lab.

Assayer D.A.G.

Form. No. Mill - 1

98-5

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date MAY 05 1998 19....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% As Fe		
(98-5)	X	X	X	X		
68881	<.01	.02	<.001	.64		
882	<.01	.04	.020	1.05		
883	<.01	.07	.001	1.21		
884	<.01	.03	.001	1.25		
885	<.01	.08	.005	3.17		
886	<.01	.03	.001	1.35		
887	<.01	.03	.005	.88		
888	<.01	.07	.001	.83		
889	<.01	.05	.005	.85		
890	<.01	.05	.006	1.20		

Form. No. Mill - 1

98-5

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date MAY 06 1998 19.....

Sample No.	% Ox. Cu.	Total Cu.	% MoS2	%AS Fe		
68891	<.01	.15	.009	1.34		
" 892		.06	.011	1.00		
" 893		.10	.160	3.34		
" 894		.13	.014	1.90		
" 895		.10	.052	6.14		
" 896		.13	.016	1.56		
" 897		.16	.025	1.67		
" 898		.18	.015	2.28		
" 899		.19	.015	1.44		
" 900		.06	.007	1.50		

cc: Assay Lab.

Assayer JJ

2

98-5

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

MAY 06 1998

Date ....., 19.....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	%AS Fe		
(98-5)	X	X	X			
68901	<.01	.21	.020	2.53		
" 902		.29	.028	1.84		
" 903		.14	.016	1.86		
" 904		.14	.009	1.20		
" 905		.18	.009	1.16		
" 906		.13	.016	1.27		
" 907		.11	.004	1.40		
" 908		.10	.011	1.45		
" 909		.04	.022	1.30		
" 910		.05	.017	1.03		
" 911		.11	.012	1.11		
" 912	.01	.07	.006	1.54		

cc: Assay Lab.

Assayer JJ

98-5

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date MAY 07 1998 19.....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% ASFe		
(98-5)	~~—~~	~~—~~	~~—~~	~~—~~		
68913	C.01	.16	.012	1.45		
" 914	↓	.08	.005	1.18		
" 915		.16	.010	1.29		
" 916		.11	<.007	1.49		
" 917		.16	.010	1.45		
" 918		.12	<.007	1.25		
" 919		.14	.019	1.00		
" 920		<.12	<.007	1.31		
" 921		.19	.004	1.30		
" 922		.16	.024	1.60		

cc: Assay Lab.

Assayer JJ

Form. No. Mill - 1

98-5

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

Date MAY 12 19 96

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	As Fe
68975	<.01	.06	.003	2.30
76		.05	.006	2.49
77		.06	<.001	1.39
78		.07	.001	1.48
79		.07	.003	1.24
68923	<.01	.13	.008	1.37
24	.01	.22	.003	1.38
25	<.01	.04	.004	1.03
26		.04	.013	1.14
27		.03	.004	1.00
28		.08	.004	1.52
29		.06	.012	1.62
30		.07	.009	1.63
31		.06	.007	1.40
32		.06	.005	1.72
33		.07	.025	1.52

98-5

J J