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**DIAMOND DRILL REPORT
on the DOR CLAIM GROUP
Cariboo Mining Division 93A/7W
(Latitude 52°17.5', Longitude 120°57')
OWNER: EUREKA RESOURCES, Vancouver, B.C.
OPERATOR: Gibraltar Mines Limited, McLeese Lake, B.C.
G. Barker, G.Bysouth January 4, 1990**

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

19,551

DIAMOND DRILL REPORT
on the
DOR CLAIM GROUP

Cariboo Mining Division
93A/7W
(Latitude 52°17.5', Longitude 120°57')

OWNER
Eureka Resources Inc.
837 East Cordova St.
Vancouver, B.C.
V6A 3R2

OPERATOR
Gibraltar Mines Limited
P.O. Box 130
McLeese Lake, B.C.
V0L 1P0

Authors: G. E. Barker
G. D. Bysouth

Submitted: January 4, 1990

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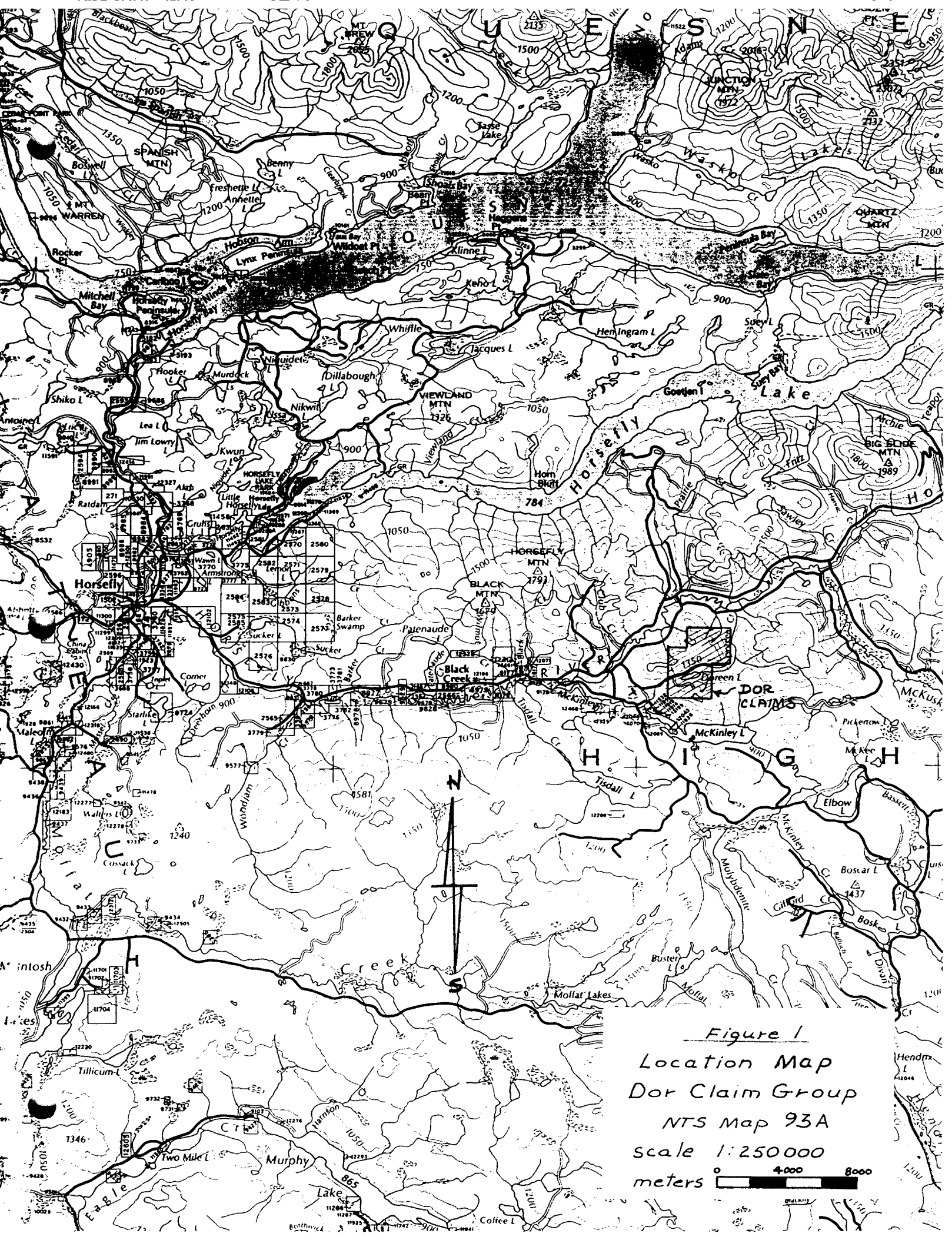
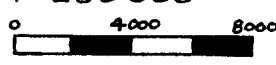


Figure 1
 Location Map
 Dor Claim Group
 NTS Map 93A
 scale 1:250 000
 meters



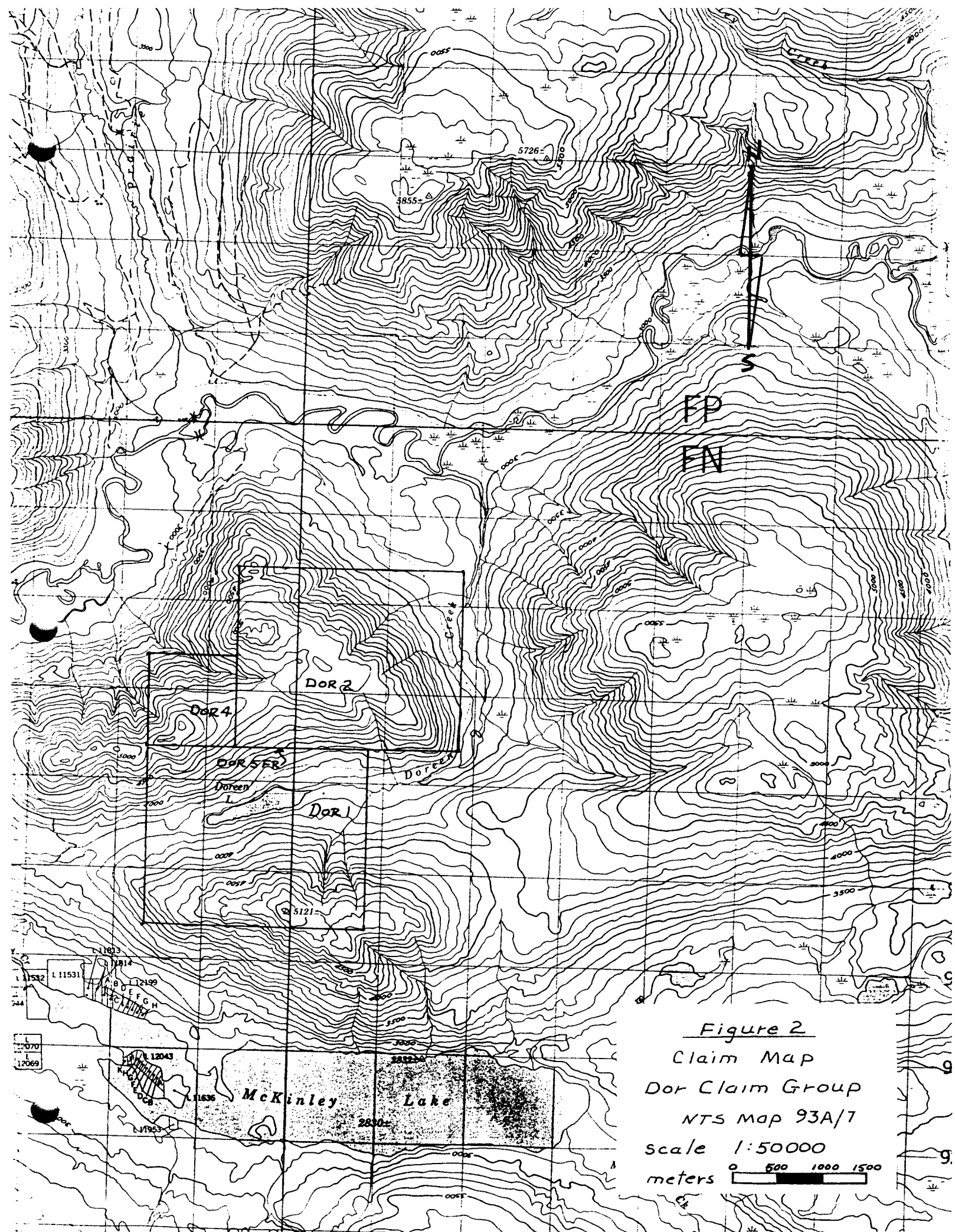



Figure 2
Claim Map
Dor Claim Group
NTS Map 93A/7
scale 1:50000
meters 

1. INTRODUCTION

The Dor Mineral Claim Group is located in the Cariboo Mining Division approximately 32 km. east of the settlement of Horsefly, B.C. (see Figure 1). The claims lie at elevations between 3700- and 5100-feet within an area of moderate to steep relief and generally poor drainage, typical for this part of the Cariboo District.

Access to the claims is provided by an all-weather logging road which extends easterly from Horsefly along the Horsefly River for about 35 km., to a branch road leading to a logging area east of Doreen Lake. (See Figure 2). The main area of work lies along a south-facing slope north of the east end of Doreen Lake, and can be reached by a four-wheel drive type of road which extends up the north side of Doreen Creek from the main logging road near the Doreen Creek bridge.

The first record of work in the Doreen Lake area is provided in the Minister of Mines G.E.M. Report for 1974, page 239, in which Dome Exploration Ltd. and Newmont Mining Corporation are described as doing reconnaissance geological mapping and geochemical soil sampling over an area of minor pyrite and chalcopyrite mineralization. In 1981, this approximate area was restaked as the Dor claims by Keron Holdings Ltd., and a subsequent soil survey revealed anomalous zones of gold and copper enrichment. The Dor claims were later acquired by Eureka Resources Inc. who undertook a program of soil sampling, geological mapping, rock chip sampling and VLF-EM surveys. By 1983, a large east trending gold soil anomaly had been outlined, and numerous zones of gold enrichment established in nearby hornfelsic rock. A significant east-trending E.M. anomaly was also delineated which was largely coincident with the geochemical anomaly. In 1984, the Dor claims were optioned to Noranda who confirmed the E.M. anomaly and tested it with two short drill holes. The holes encountered a narrow zone of massive pyrrhotite and several zones of gold enrichment. In 1989, the Dor property was optioned to Gibraltar Mines Ltd.

This report covers a diamond drill program conducted by Gibraltar Mines Limited during the period August 14 to August 30, 1989. Six holes were drilled totalling 1212.71 meters. The contractor was L.D.S. Diamond Drilling Ltd. of Kamloops, B.C. The drilling was confined to the Dor 2 mineral claim, but some drill road construction also extended to the Dor 1 claim. The core is currently stored at the Gibraltar Mines plant site.

2. MINERAL CLAIMS

The mineral claims of the Doreen Lake Property are shown in Figure 2 and claim information is tabulated below:

CLAIM NAME	RECORD NO.	NO. OF UNITS	DATE OF RECORD
DOR 1	3261	20	MARCH 27, 1981
DOR 2	4091	20	OCTOBER 15, 1981
DOR 4	10102	4	OCTOBER 4, 1989
DOR 5 FR	10103	1	OCTOBER 4, 1989

Dor 4 and Dor 5 Fr are currently owned by Gibraltar Mines Limited. Dor 1 and Dor 2 are owned by Eureka Resources Inc. but held under option by Gibraltar Mines Limited.

3. GENERAL GEOLOGY

The Dor claims lie within the Quesnel Trough, a linear North-Northwest trending belt of early Mesozoic volcanic and sedimentary rocks. The Dor claims are underlain by a series of sedimentary and volcanic units of Upper Triassic to Lower Jurassic age which includes a sequence of interbanded medium to dark green andesitic tuffs, flows and breccias, and green to black, aphanitic argillaceous units, some of which may have a volcanic origin. Banding and bedding is not easily observed due to metamorphism of the various units.

The above assemblage has been intruded by a stock of fine to medium grained diorite. Near the intrusive contact, the interbanded volcanic-sedimentary units have been thermally metamorphosed into hard dense light grey to black aphanitic hornfels. The hornfels commonly contains very fine grained disseminated pyrrhotite and pyrite, which in a few exposures appears to also be associated with disseminated chalcopyrite.

4. DRILL PROGRAM

4.1 Objective

The primary purpose of the 1989 drill program was to test the inferred bedrock source of the large east trending geochemical gold anomaly outlined by Eureka. A secondary purpose was to determine the geological nature of the sulfide mineralization found in rock exposures within and adjacent to the geochemical anomaly.

4.2 Results

Two vertical and four angle N.Q. diamond drill holes were completed. Some difficulty was encountered in drilling the hard, highly fractured hornfelsic rocks but recoveries generally remained above 95%. The location of the holes is shown in Figure 3 and copies of the logs are provided in the Appendices. Survey control was by compass, hip chain and topographic map. Assays of the core were unavailable at the time the Statement of Work was submitted.

Drill holes 89-1, 89-2, 89-3, 89-4 and 89-6 have encountered similar rock types. All holes for example, have intersected an alternating sequence of fine grained siliceous black argillite and fine to medium grained grey-green tuff. The tuff appears to be of andesitic or dacitic composition and generally lacks bedding structure. The argillite appears to be composed mainly of silica with minor and variable amounts of graphite and carbonate. Fine bedding structure is often shown by alternating grey and black laminae. Bedding angles, as indicated in vertical hole 89-3, suggest the sequence dips at 70- to 80-degrees. The thickness of the alternating tuff and argillite beds vary between one- and 40-meters. All the above holes also indicate the argillite-tuff sequence has been intruded by a series of grey seriate textured dacitic dykes. Heat metamorphic effects occur on most dyke contacts and some brecciation of the host rock was noted in holes 89-2 and 89-4. A steep dip can be inferred for most of the dykes, particularly in the case of drill hole 89-2 which suggests the dyke contact lies along the 65-degree axis of the hole. Another dyke rock was noted in holes 89-4 and 89-6; this is a grey-green fine grained seriate textured hornblende porphyry having conspicuous black prismatic hornblende phenocrysts. All the rock units contain very fine grained disseminated pyrrhotite and pyrite which generally averages between one- and two-percent, and may exceed seven-percent in some three- to six-meter sections. The relationship between pyrite

and pyrrhotite is not clear, but there is some suggestion that the proportion of pyrite increases towards the west. Massive brown pyrrhotite segregations occur in many of the holes, particularly in hole 89-1, in which several massive zones up to .5 meters thick have been intersected. Minor chalcopyrite often accompanies the massive pyrrhotite. All the rock units are cut by numerous quartz and quartz-carbonate veinlets which occasionally also contain sulfides.

Drill holes 89-3, 89-4 and 89-6 have encountered higher grades of contact metamorphism associated with zones of plutonic rock. In the case of 89-3, a biotite hornfels was intersected near the bottom of the hole at 201 m., followed by a zone of grey diorite and more biotite hornfels. Further to the west, hole 89-4 appears to be confined entirely to alternating zones of biotite hornfels, recrystallized tuff and dacitic dykes. A four meter zone of dioritic rock was also noted. Still further west, hole 89-6 has intersected a sequence of breccias, zones of biotite hornfels and recrystallized tuff, and a 17-meter wide zone of grey quartz-diorite. The breccias are of particular interest. One zone consists almost entirely of quartz-diorite fragments. Another is a mixture of various plutonic porphyry fragments, some of which appear felsic.

Drill hole 89-5, which was the most westerly hole of the program, was confined almost entirely to a dioritic rock type. The diorite appears mainly as a fine to medium grained, equigranular plutonic rock consisting essentially of plagioclase and mafic minerals. Various degrees of propylitic alteration were noted throughout the hole, mainly involving a saussuritization of plagioclase and chloritization of mafic minerals. Cutting the propylite were numerous zones of dark chlorite-green alteration assumed to be an assemblage of chlorite, silica and minor carbonate. This same alteration also occurs as halos and envelopes around certain quartz veins. Zones of massive epidote occur throughout the hole, as well as quartz veining accompanied by various combinations of chlorite, epidote and carbonate. Disseminated pyrite was noted in most of the rock in amounts averaging between one- and two-percent. Pyrite and pyrrhotite also occur in veins either alone or with the other vein minerals. One zone, at about 213-meters, contains massive pyrrhotite, pyrite and chalcopyrite in a quartz-carbonate-chlorite gangue over a width of about .6-meters. Of interest in this hole, was the occurrence of hornblende porphyry dykes similar to those of holes 89-4 and 89-6, which were clearly intrusive to the diorite.

4.3 Interpretation

The diamond drill program has indicated the geochemical anomaly is underlain in part, by a contact zone formed between a dioritic pluton and an argillite-tuff sequence. The diorite appears to have been altered by an early hydrothermal or deuteritic phase, which has caused pervasive propylitic alteration, and a later hydrothermal phase, which has caused localized chlorite-quartz-carbonate alteration. Sulfides, mainly pyrite and pyrrhotite with minor chalcopyrite and molybdenite appear to have accompanied the later alteration phase. The sulfide mineralization also appears to have been a relatively late event since it occurs in all rocks including the hornblende porphyry which is clearly younger than the diorite. The presence of a quartz diorite zone in hole 89-4 and felsic fragments in nearby breccias are of interest since it suggests the pluton is differentiated into more acidic phases. Narrow contact effects immediately next to the pluton, which involve the transformation of argillite to biotite hornfels and the recrystallization of tuff to granoblastic textured rock, suggests an epizonal level of emplacement. An irregular easterly dipping contact zone is also indicated by the distribution of biotite hornfels and

plutonic rock in drill holes 89-3, 89-4 and 89-6. The fact that the drill holes are distributed along a westerly axis, and each hole, with the exception of 89-5, has intersected the argillite-tuff sequence as well as numerous dacite dykes suggests that both the argillite-tuff sequence and the dykes strike close to a westerly direction. This appears even more likely when it is considered that both the dykes and host rock dip at 70- to 80-degrees, possibly to the north. If a westerly strike is correct, then this drill program has been confined to only a narrow horizon within the sedimentary-volcanic host rock formation. The drilling may, however, lie at a large angle to the thermal metamorphic gradient set up by the pluton; that is, the pluton at this point is considered to strike northerly.

5. STATEMENT OF EXPENDITURES

1989 Diamond Drill Program - DOR Claim Group

1. Site Preparation Costs

Gruh's Bulldozing Ltd.

D8H Cat Bulldozer, 42 hrs. x \$107.50 per hr. \$4,515.00

Rauch Lowbed Service 292.50

-----\$4,807.50

2. Diamond Drilling Costs

LDS Diamond Drilling Ltd.

All inclusive charge, 1213.71m. x \$56.89 per m. 69,049.44

3. Personnel Costs

3.1 Field Work and Core Splitting

C. Trudeau, Aug. 14 to Sept. 1, 1989

120 hrs. x \$17.33 per hr. 2,079.60

P. Baatz, Sept. 12 to Oct. 6, 1989

184 hrs. x \$11.53 per hr. 2,121.52

3.2 Supervision, Core Logging, Report Preparation

G. Barker, Aug. 1 to Oct. 6, 1989

48 hrs. x \$27.38 per hr. 1,314.24

G. Bysouth, Aug. 1 to Oct. 6, 1989

24 hrs. x \$38.54 per hr. 924.96

6,440.32

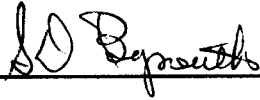
TOTAL

\$80,297.26

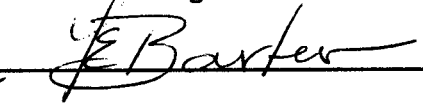
6. CONCLUSIONS

This diamond drill program has indicated a plutonic porphyry mineralizing system has been operative within the general area of the geochemical anomaly.

An I.P. survey is now required over most of the property and the resulting anomalies must be tested by diamond drilling.



G. D. Bysouth
Senior Geologist



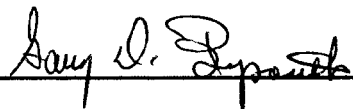
G. E. Barker
Exploration Geologist

GIBRALTAR MINES LIMITED

APPENDIX A. Statement of Qualifications - G. D. Bysouth

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

1. I am a geologist.
2. I am a graduate of the University of British Columbia, with a B.Sc. degree in Geology in 1966.
3. From 1966 to the present I have been engaged in mining and exploration geology in British Columbia.
4. I personally participated in the field work, supervised the program, logged about 50% of the core and interpreted the results.



Garry D. Bysouth

APPENDIX B. Statement of Qualifications - G. E. Barker

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

1. I am a graduate of the University of Waterloo, Waterloo, Ontario, with a B.Sc. degree in General Science, 1985.
2. From 1978 to the present I have been engaged in mining and exploration geology in British Columbia.
3. I personally participated in the field work, logged about 50% of the core and interpreted the results.

A handwritten signature in cursive script that reads "George E. Barker". The signature is written in black ink and is positioned above the printed name.

George E. Barker

APPENDIX C. Drill Logs

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD89-1 Page 2 of 7

GEOLOGY	FOLN.	m. DEPTH	MINERALIZATION	REMARKS	% BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES					
<p><u>ARGILLITE</u> 39.8m to 50.6m</p> <p>A dark green to black aphanitic rock interbedded with lighter grey-green bands. Bedding appears to be $\approx 45^\circ$ to core axis. Core is very angular and fragmented. The rx appears to be siliceous $H=6.5-7$, 1 to 3% sulphides (po+py) disseminated and in small veins + some small "patches" of brown po. Broken core surface has a dark chloritic look, minor qtz-carb veining.</p> <p><u>HORNFELS?</u> 50.6 to 62.9m</p> <p>Similar to 39.8m to 50.6m except rx is mainly grey to grey-green intermixed with dark green to black zones. Some gypsum noted on fractures.</p>		33	massive po (brownish) min epv-py (cp)	slump features? Core has a crushed look	32.31	96	6.0	85710						
		36	massive po (cp) chlorite qtz-carb. 3m X 2 70°		35.36	97	5.5	85711						
		39	massive po (cp) lacy qtz-carb stock work (carb-qtz healed crush zone?)	core is lighter color, increase in qtz-carb.	38.40	96	7.5	85712						
		42	massive po (cp)		41.45	95	5.0	85713						
		45	qtz-carb 5mm X 3	40-45° to core axis	44.50	93	1.5	85714						
		48	qtz-carb 3cm X 2 40°		47.55	91	1.0	85715						
		51	po (brown)		50.60	90	3.0	85716						
		54			53.64	87	1.5	85717						
		57	gypsum	core has a crushed look	56.69	92	1.0	85718						
		60			59.74	80	1.0	85719						
	63			62.71	45	1.0	85720							

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GYD89-1 Page 4 of 7

GEOLOGY	FOLN.	M. DEPTH	MINERALIZATION	REMARKS	% BLOCKS REC	% PY+	SAMPLE No.	ASSAY VALUES									
		99		large clasts up to 3mm	96.32	97	1.0	85732									
		102		BK Argillite	99.36	97	1.5	85733									
		105	Lacy Qtz-carb stoch work		102.41	98	0.5	85734									
		108	Qtz carb, 1cm 45°	sooty looking high magnesian? slump or flow features	105.46	91	1.0	85735									
		111	Qtz-carb-dtl, 3cm 50°	Bodily broken crite	108.51	93	1.0	85736									
		114	small Qtz carb veins	siliceous 3cm cherty looking	111.56	94	1.0	85737									
		117	wk Qtz-carb stoch work		114.60	95	1.0	85738									
		120	Qtz-carb, 5mm X 2 40-50°		117.65	80	1.0	85739									
		123			120.70	93	1.5	85740									
		126			123.75	97	1.0	85741									
		129			126.80	85	1.0	85742									

INTRUSIVE?

124.1 to 126.3m

Similar to Rx @ 62.9 to 67.3m

(may be coarse volcanic tuff)?

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD89-1 Page 6 of 7

GEOLOGY	FOLN.	m DEPTH	MINERALIZATION	REMARKS	BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES					
		165			163.37	97	11.5	85754						
		168	lacy qtz-carb qtz-carb 1cm 45°		166.42	97	21.5	85755						
		171	welded tuff? small intrusive zone?	grain size 1mm to 4 to 8mm	169.97	96	11.0	85756						
		174		bedding visible 45° to core axis	172.52	96	11.0	85757						
		177		fine grained siliceous zone H 6.5-7 slump and flow features, dark and light colored swirl pattern.	175.56	98	11.5	85758						
		180		large clasts up to 1cm brecciated appearance tuff - grey wacke? slumping, flow and swirl features	178.61	98	11.0	85759						
		183		intermixed coarse - fine material dk to light grey.	181.66	97	11.0	85760						
		186		qtz-carb 1cm 50°	184.71	96	11.5	85761						
		189		small fault? crushed zone with lacy carb	187.76	97	11.5	85762						
		192		crushed zone with lacy carb	190.80	95	11.5	85763						
		195			193.85	98	11.0	85764						
<p><u>INTRUSIVE (andesite)?</u> 188.5 to 191.0m grey green with qtz-carb stock work - Hornfels at contacts</p> <p><u>TUFF (andesite)</u> 192.0 to EOF Fine grained Rx interbedded with small zones of Black Argillite, min qtz carb veins. cherty looking from 196.5 to EOF</p>														

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD89-2 Page 1 of 7

LOCATION DOREEN LAKE BEARING 360° LATITUDE _____ CORE SIZE NQ
 DATE COLLARED 18 AUG 1989 LENGTH 198.12 m (650') DEPARTURE _____ DATE 19 OCT 1989
 DATE COMPLETED 20 AUG 1989 DIP 65° ELEVATION _____ LOGGED BY G.E. BARKER

GEOLOGY	FOLN.	m. DEPTH	MINERALIZATION	REMARKS	m. BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES							
<p><u>ANDESITIC TUFF - BLACK ARGILLITE UNIT</u> <u>3.05 m to 32.3 m</u></p> <p>Tuff = [] argillite = []</p> <p>An intermixed zone of black aphanitic argillite and fine to medium grained volcanic tuff. Tuff is light grey to grey green in color with fragments up to 5mm minor gtz-carb. stock work and vientes within zone. 1 to 2.5% fine grain sulphides (po py) are disseminated in core plus small viens and "smears". Core is fragmented in places. H:5-6</p>			broken and fragmented core = [] limonite to 6.7m	Casing to 3.05 m badly broken core possible fault	4.88	50	0	85766								
		6		small fault (min. gouge)	crushed zone healed with carb.	7.92	90	0.5	85767							
		9		gtz-carb-2cm-55° to core axis												
		12		carb 1cm 45° fine po+py viens 1mm stock work gtz-carb 2mm (off set)	Slumping and flow features	10.97	94	1.5	85768							
		15				14.02	96	1.0	85769							
		18		carb 6mm 50°		17.07	93	1.0	85770							
		21		po (brown) fine viens + small patches min gtz-carb viens	light grey zone grain size increase	20.11	95	1.5	85771							
		24		fracture surfaces smooth-platy dark chl min carb "stock work"	shistic - increase in phyllosilicates	23.16	98	1.0	85772							
		27		po (py) "stock work"		26.21	97	2.0	85773							
		30				29.26	96	1.0	85774							

GIBRALTAR MINES LTD
EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD89-2 Page 3 of 7

GEOLOGY	FOL.:	m DEPTH	MINERALIZATION	REMARKS	m BLOCK	% REC	% PY:	SAMPLE No.	ASSAY VALUES					
cherty looking zone		66	"smears" of po (PY)		65-84	98	1.0	85786						
		69	qtz-carb 5mm X 2 45°		68-88	98	0.5	85787						
		72	carb 1cm, 80°	Broken core - fragments sharp and angular	71-93	93	1.0	85788						
		75	qtz-carb-po 1cm X 2 50° fine "lacy" qtz-carb stockwork		74-98	95	1.5	85789						
		78			78-03	97	1.0	85790						
		81	qtz-carb 2mm X 3 60-70°		81-08	99	0.5	85791						
		84	carb 5mm 45°	slump features "crushed" look	84-12	99	1.0	85792						
		87	fine "lacy" qtz-carb SW.		87-17	98	1.0	85793						
		90	qtz-carb 4mm X 2 40° "lacy" fine blk. v. mag chl? mag		90-22	98	1.0	85794						
		93			93-27	97	0.5	85795						
	96	qtz stockwork po (PY) ((CP))			98	1.0	85796							

INTRUSIVE (Dacite?)
86.3m to 114.8

Rx. has seriate texture with conspicuous hornblend Laths from 86.3m to 93.2m. Remainder of Intrusive is similar to Rx. in zone from 32.3 to 56.3m

GIBRALTAR MINES LTD

EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 89-3 Page 1 of 8

LOCATION Doreen Option BEARING - LATITUDE - CORE SIZE N.O.W.
 DATE COLLARED 20 AUG 1989 LENGTH 233.78m (767') DEPARTURE - DATE Oct 24, 1989
 DATE COMPLETED 23 AUG 1989 DIP -90° ELEVATION - LOGGED BY G.D. Bysouth

GEOLOGY	FOLN.	m DEPTH	MINERALIZATION	REMARKS	m BLOCKS	% REC	% PYT	SAMPLE No.	ASSAY VALUES					
Casing To 4.88 m														
<u>Black Siliceous Argillite (4.88m-201. m)</u> mainly a black to dark grey aphanitic compact rx. with a hardness of 6-7. May be a hornfels. Most of the rx. lacks bedding structure except in short sections where alternating dark and light grey laminae impart a fine bedding - these angles are recorded in the foliation column. The rx. is "laced" by carb. veinlets in places but contain only a minor amount of carbonate - fizz in acid is wk or nil. Py and Pyr. occur throughout as microscopic dissem., segreg. along shears and slips, and as massive lenses and clots - sulfide concs occur up to 5.0% but estimates are diff. due to the fine gr. nature of the dissem. Fracture - rx. is mod. magnetic (pyr) - graphite content is prob not over 1% except in a few 1-2m sections	?	6.0 m	} poss. small fault.	broken rusty core	5.18	80	.5	86626						
	?	7.0 m			broken rusty core - lim. to 7.34 m. } mud seam	7.34	70	.5	86627					
	30	9.0 m	} 20° 5cm, qtz-carb bc-healed zone 40° 6cm, qtz-carb bc-healed 10.5mm - pyr. - carb.			8.23	0							
		12 m					11.28	95	1.0	86628				
	35	15 m	} numerous qtz-carb veinlets @ rt. L's to bedding				14.3	95	1.0	86629				
	45	18 m			} broken zone		17.37	80	1.0	86630				
	20-50	21 m	} 25cm-40° light grey bed with incr. pyr-py-(cp) 10-20° 9mm-qtz-carb-pyr.		} broken zone		20.42	98	2.5	86631				
	?	24 m			} dense blk massive section - cut by carb gash veinlets +- py		23.47	98	1.0	86632				
	45	27 m			} broken section - incr. graph.		26.52	95	1.0	86633				
	nd.	30 m		ragged, sharp 80° contact	Grey-green feldspar porp. - clay alt'd sper pheno's up to .5mm in. Crowded seriate matrix of qtz-feldspar-chl.		28.57	98	2.5	86634				

GIBRALTA MINES LTD
EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 89-3 Page 2 of 8

GEOLOGY	FOLN.	M DEPTH	MINERALIZATION	REMARKS	M BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES					
<p>From 44.8 to 52.5 m a dark grey bed of coarser sed. is intersected with grns up to .5mm dia - resembles a fine grn greywacke.</p> <p>* most of the core is magnetic - which may be due not only to pyr. but also finely dis. mag.</p>	30-80	33m	85° Sharp contact 30° bk zone healed by carb and clay. H. dyke material - 6 m.	incr dissem. pyr in dyke part of dyke contact ??	32.61	90	2.0	86635						
	5-10°	36m	5, 6cm - bc - pyr. carb. zone		35.66	90	1.5	86636						
	5°	39m	mottled grey and grey-green sect., H-T, and incr. pyr.	poss. complex fold str.	38.71	95	3.5	86637						
	60°	42m	qtz-carb-stkwks.	dense blk arg.	41.76	98	2.0	86638						
	5-15	45m		Folded sec. + dislocation of beds poss. non-diastrophic	44.81	85	2.0	86639						
	5	48m	80° 5mm - magnetite*	as above	47.86	95	2.5	86640						
	5	51m		dislocation of beds.	50.91	100	2.0	86641						
	5-90	54m	40, 30cm - zone of carb veins and venter's "healing" or zones.		53.96	99	2.0	86642						
	55	57m	carb stkwks 20° - 1m - carb. vein swarm		57.01	98	1.0	86643						
	5-50	60m		dislocation of beds	60.06	100	1.0	86644						
35	63m	50, 32 cm - "dirty" green bed - resembles scarn - massive - dense.		63.11	98	2.0	86645							

GIBRALTA MINES LTD
EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GKD 89-3 Page 3 of 8

GEOLOGY	FOLN.	m DEPTH	MINERALIZATION	REMARKS	m BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES					
- general incr. in the proportion of lighter gr laminae 66-96 m. - lighter grey material usually shows an incr. in disse. sulfides - the lighter bands are sl. coarser grn, in places resemble a fine greywack	35-45	66m	40° 20cm - soft carb. bed. 10-15cm - bx zone healed by carb.		66.16	95	2.0	86646						
	5-40	69m	40° 5m - olive grey dense zone (scarn?) 5° qtz-carb veinlets		69.21	95	1.0	86647						
	10-40	72m	5-10° qtz-carb veinlets	sparse dissem cp.	72.24	90	1.0	86648						
	5-10	75	5° 2cm - bx zone healed by massive pyr+qtz?	incr pyr.	75.28	90	3.5	86649						
	5-10	78		fine bx and dislocation healed by qtz-carb.	78.39	95	2.0	86650						
	5-10	81		incr. microscopic sulfides - conc. mainly in lighter grey bands	81.35	90	3.0	86651						
	20-30	84	25° 20cm - light grey bed with ~20% dissem. pyr. + sparse cp		84.39	90	3.0	86652						
	20-80	87	5-40°, <4mm, carb veining		87.43	95	2.0	86653						
	20-40	90		numerous hard green blotches and stringers (ep?) with incr. pyr. and sparse cp.	90.47	98	2.0	86654						
	20-40	93			93.57	100	2.0	86655						
	?	96		mottled grey and green zone - H.7 with incr. coarse pyr.		98	3.0	86656						

GIBRALTA MINES LTD
EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 89-3 Page 4 of 8

GEOLOGY	FOLW.	m DEPTH	MINERALIZATION	REMARKS	m BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES						
	?	99		hard dense blk zone with mottled green zones and	96.62										
	?	102	broken zone	incr. sulfides	99.67	95	3.0	86657							
	10	105		mainly brownish grey bed with subordin. blk laminae	102.72	80	3.0	86658							
	10-20	108	broken zone	hard dense blk zone	105.77	80	2.0	86659							
	10-60	111	60, 6cm - green zone (? tuff bed?) broken zone		108.82	85	1.5	86660							
	10-25	114			111.86	85	1.0	86661							
	?	117		med grey, sl. cherty zone - poss. a big hor. frac - decrease sulfides	114.92	65	2.0	86662							
	?	120	highly broken core		117.97	70	.5	86663							
	45-55	123	broken and lost core	hard dense black zone - minor lighter grey lamination	121.02	75	1.0	86664							
	?	126	remob. pf. along h/c frac to? 2m. - gg-bx	- small fault.	124.07	60	1.5	86665							
	5-35	129	broken zone		127.12	80	3.0	86666							
							2.0	86667							

GIBRALTA MINES LTD

EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 89-3 Page 5 of 8

GEOLOGY	FOLN.	M DEPTH	MINERALIZATION	REMARKS	M BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES					
	5-10	132.2		dense dirty green zone + minor dark grey laminae - resemble a scarn - aphanitic-	130.15		5	86668						
	5-15	135		well laminated zone - minor green beds and laminae	133.20		10	86669						
	5-10	138		" " "	136.24		10	86670						
	0-5°	141			129.29		10	86671						
	0-5°	144	dirty green zone - like scarn lies subparallel with bedding and in one place X-cuts bedding - bleached reaction rims 1-2 cm.	this green material which is reported above as scarn etc may be a dyke injected along this bedding	142.34		10	86672						
	0-5°	147			145.39		10	86673						
	0-5	150	finely frac. zone healed by tiny carb. gas veinlets with relict. py.		148.44		10	86674						
	0-5	153	5° 2cm - carb-gs zone	this dyke has green aphan. reaction rims @ contacts similar to the above green	151.49		30	86675						
		156	0-10 ~ 5m. dark grey hb. porph. dyke with disse. and gas-hk veinlets of pyr.	zones - dyke is char. by scattered subhed. blk hb. phenocrysts up to 2mm. long in a dense aphanitic ground	154.58		30	86676						
		156	broken zone - minor ss				10							
	0-5	159			157.58		15	86677						
	5-10	162			160.63		10	86678						

- From 141 to 201 m. a dyke or series of dykes have been intersected which appear to be approx. concordant with the steeper bedding angles, and therefore dip close to the core axis → repetitive dyke contact effects.

GIBRALTA MINES LTD

EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 89-3 Page 6 of 8

GEOLOGY	FOLN.	m DEPTH	MINERALIZATION	REMARKS	m BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES					
	5	165m	0-5, 1m, dirty green zone - poss dyke contact.		163.68m		1.0	86679						
	0-10	168m	0-8, .5m, dirty green zone. broken zone.		166.72m	95	1.0	86680						
	0-5	171m	5°, 2m - dyke with green contacts. ?, 4m - ss-lx-sand.	} small fault.	169.77	90	1.0	86681						
		174	broken zone with qtz-carb veins and dyke frags.		172.82	85	2.0	86682						
	5.	177	dark grey aphanitic dyke - incr. dissem. and segreg. sulfide.		175.87	95	2.0	86683						
	5-10	180	5° dark grey aphanitic dyke.		178.92	90	1.5	86684						
	5-10	183	5-10 5°		181.97	75	1.0	86685						
	-	186	dark grey aphanitic dyke - green contact.		185.01	90	1.0	86686						
	-	189			188.06	95	1.0	86687						
	-	192	? contact? } broken zone		191.11	85	.5	86688						
	-	195	5°, 20cm - green zone	} dense, dark grey aphanitic zone - no bedding str. dyke? hornfels?	194.16	80	1.5	86689						

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GD89-4 Page 1 of 6

LOCATION DOREEN LAKE BEARING 360° LATITUDE _____ CORE SIZE NG

DATE COLLARED 23 AUG 1989 LENGTH 175.87m (577') DEPARTURE _____ DATE 13 NOV 1989

DATE COMPLETED 25 AUG 1989 DIP 65° ELEVATION _____ LOGGED BY G.E. BARKER

GEOLOGY	FOLN.	m DEPTH	MINERALIZATION	REMARKS	m BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES						
				Casing to 4.88m	4.88										
<u>HORNBLEND PORPHYRY</u> 4.88m to 14.55m		6	x limonite to 8.9m	{ } = minor amount { } = very min.			0	85830							
Agrey-green colored Rx close to andesitic composition. Fine grain matrix of plagioclase, amphibole? - with small phenocrysts of hornblende. Rx is highly fractured with fractures filled with carb. and sulfides (po-py-(ep)) sulfides are also disseminated (microscopic to fine) in Rx. Rx may be a recrystallized sedimentary Rx (argillite)			x	[X] = Broken core (fragmented)		65									
		9	x		Badly broken core	8.23		0.5	85831						
			x	Drillers comment "badly broken ground S.W. = stock work"			40								
		12	x carb S.W. PY (po)(ep)		11.28		2.0	85832							
			x	feldspar phenocrysts up to 2mm		95									
	15	x	carb SW		14.33		1.5	85833							
		x	fine S.W. of po(py)			90									
	18	x			17.37		2.0	85834							
<u>HORN FELLS</u> 14.55m to 30.4m			x carb-po 3mm 45°	Bedding 25-40° to core axis "slump" features		96									
A hard (6-7) siliceous aphanitic meta sedimentary Rx. grey to black in color. Small veins of carb and qtz-carb. po + py are disseminated and in small veins and "smears". Rx is fairly fractured with fragment angular and sharp.		21	x Carb 1cm 20° to core axis		20.42		1.0	85835							
			x core is light brown color - microscopic biotite? epl. grad? po 3mm		96										
		24	x		23.47		1.5	85836							
			x	light yellow green patches epi?		97									
	27	x			26.52		1.5	85837							
Intrusive (igneous) Rx = <input checked="" type="checkbox"/>				argillite remnants in the zone		90									
Hornfels = <input type="checkbox"/>															
		30	x qtz-carb-py 2mm 25°	broken core	29.57		1.5	85838							

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD89-4 Page 6 of 6

GEOLOGY	FOLN.	DEPTH	MINERALIZATION	REMARKS	BLOCKS	% REC	% PY	SAMPLE No.	ASSAY VALUES					
Dark grey			qtz-carb Mo(py)(pc)	4cm X 3 30°-40°	163.68		1.5	85883						
		165	carb (pol) PY S.W.			98								
			py-po "smears" on fract.		166.73		2.0	85884						
		168	epi "patches"	light yellow-green color		99								
			qtz-carb 5mm 40°	slumping (view offset)	169.77		1.0	85885						
		171				99								
Breccia fragments up to 3cm			X qtz-carb - po(py) S.W.		172.82		1.0	85886						
		174	qtz-carb-mo, 0.5 to 1cm X	5, 40°-45°		99	1.5	85887						
				END OF HOLE	175.87									

MEB

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GKD 89-5 Page 4 of 7

GEOLOGY	FOLN.	m DEPTH	MINERALIZATION	REMARKS	m BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES					
	45 WK	108	15°, 5cm-ep 40°, 5cm-ep			98	<.5	86582						
	ND	111	50°, 3cm-ep		108.81	96	<.5	86583						
	50 WK	114	80°, 4cm, ep x 2 50°, 5cm-ep 50°, 20cm-ep ep stockwk	dark alth zone with abundant ep as zones and veins forming 2-3% of section - minor carb. as gash veins	111.86	95	.5	86584						
	50 WK	117	50°, 7cm-ep 20°, 3cm-ep		114.91	95	.5	86585						
	ND	120			117.96	95	<.5	86586						
	ND	123	60°, 5cm-ep	} dark alth	121.05	94	<.5	86587						
	ND	126			124.05	95	<.5	86588						
	ND	129	60°, 2cm-ep 70°, 3cm-ep 60°, 7cm-ep 70°, 10cm-ep x 2		127.10	95	<.5	86589						
	ND	132	80°, 3cm-ep 50°, 3cm-ep 60-70°, 3-6cm-ep x 5	} dark alth	130.15	96	<.5	86590						
	ND	135	70°, 20cm-ep		133.20	95	<.5	86591						
	ND	138	70°, 30cm-ep 25°, 6cm-ep		136.25	92	<.5	86592						

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GxD 89-5 Page 5 of 7

GEOLOGY	FOLN.	m DEPTH	MINERALIZATION	REMARKS	m BLOCKS	% REC	% PY+	SAMPLE No.	ASSAY VALUES					
dark grey aphanitic dyke - similar to the porph.	ND	141	40, 1cm, ep-py x 2 dissem py (cp)		139.29		.5	86593						
	ND	144	40 diffuse contact		142.37		93	86594						
	ND	147	40, 1cm - qtz-py 20, 2cm - qtz-carb-ep-py	dk alt'n + ep clots	145.39		94	86595						
	ND	150	25, 2cm - qtz-py		148.48		95	86596						
	ND	153	50, 6cm - ep 40, 2cm - qtz x 4	dark alt'n	151.44		95	86597						
	ND	156	10, 2cm - qtz-ep-py (cp)		154.53		96	86598						
	ND	159	5, 3cm - ep-py (cp) 5, 5cm - ep-py (cp)		157.58		95	86599						
	ND	162	5, 2cm - ep-py - qtz 20, 6cm - qtz-cl 40, 2cm - qtz-carb		160.63		94	86600						
	FINE GRN DIORITE (160 - 227.69m) this is a mixed unit of ~20% med-fine grn saus-diorite similar to the above diorite and ~80% finer grn dioritic rock types. - obvious dyke rx. will be noted - saus. alt'n appears to have lessened in this unit	ND	165	40, 50cm - ep-py (cp) broken zone - pass fault	massive ep-py greenish aphanitic zone (silicification)	163.68		93	86601					
		ND	168	5-20, 1.3m - qtz-carb-ep-py-pyr. clots of ep-py (cp) in broken zone		166.73		94	86602					
ND		171	80, .5m - ep-carb (py) iner. carb-qtz veinlets		169.77		94	86603						

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 89-5 Page 7 of 7

GEOLOGY	FOLN.	M DEPTH	GR. ST.	MINERALIZATION	REMARKS	M BLOCKS	% REC	% PYT	SAMPLE No.	ASSAY VALUES					
	ND	207	A	60? - 15cm - ep		206.35	95	1.0	86615						
	ND	210		60 - 12mm - ep-py 40 - 2.5cm - ep-py x2	} dissem + veinlet py. sample by J. Kerr	209.40	96	2.0	86616						
	ND	213		6cm, ep-py 5cm, ep-py 5-20, 30cm - chl- carb-qtz-py-ep + 30cm - chl-ep-py	} dissem. and veinlet py ~ 40% ep.†	212.45	96	3.5	86617						
	ND	216		40, 3cm - ep. 60? - 30cm - ep-qtz 60+70+20, 4-10cm, ep x3		215.49	100	.5	86618						
	ND	219		15+15+30, 10cm, ep x3 70+60, 5cm, ep x2 60, 4cm, ep x2 80, 30cm - ep	} py as fine dissem. and tiny veinlets	218.54	100	.5	86619						
		222		40, 15cm - ep 60, 20cm - ep 5, 2cm - ep		221.59	98	1.0	86620						
		225		80, 1cm, ep x3 50, 3cm - ep 45, 3cm - ep x2		224.67	96	<.5	86621						
				90, 1cm - qtz x3		227.69	95	<.5	86622						
F.O.H. 227.69 m															
<i>[Signature]</i>															

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 89-6 Page 2 of 6

GEOLOGY	FOLW.	M DEPTH	MINERALIZATION	REMARKS	M BLOCKS	% REC	% PYT	SAMPLE No.	ASSAY VALUES					
		42m	20, 3cm - qtz-carb-pyr 50, 2cm, ep-pyr coarse volcanoclastic sed.	} sharp 45° contacts	41.76	86	1.5	86735						
		45m	25°-1cm-ep-pyr x 3		44.81	85	1.0	86736						
	25?	48	50, 6cm-qtz-carb sharp 25° contact		47.85	98	1.0	86737						
<u>DARK GREY TUFF?</u> (48.60 - 60.0m)		51		no bedded structure - orientation of frags suggest a 10° incl. to core axis	50.90	90	1.0	86738						
- similar to the above tuff unit but becoming increasingly more fragmental towards the base @ 60m		54		fine dissem. pyr. + a few veinlets of massive pyr	53.95	95	1.0	86739						
- typically a fine grn granoblastic rx with prominent ovoid grains of plag. up to 1mm in a finer grn. seriate groundmass of plag., chl, bio and qtz? - recrystallized tuff or volcanoclastic sed.?		57	40-10cm - ep pyr. zone		57.0	90	1.5	86740						
	to	60		gradational contact	60.05	100	1.0	86741						
<u>POLYMIC TIC BRECCIA</u> (60.0 - 72.34m)		63		dissem pyr. and random mass. pyr. veinlets	63.09	98	1.5	86742						
- rounded to subangular frag.s of diorite, various spar porp.s., brown hb porp., pale grey felsic rx ... crowded in a dark grey granulated matrix - grades upwards into the dark grey tuff unit.		66	45 grey brown hb porph. - chilled contacts.		66.14	95	1.0	86743						
		69	15° shear - bx zone healed with dk grey carb., Pt, qtz-carb and ep. 3m. wide	} Proba a mineralized shear zone - also zones of F hb. porp.	69.19	95	4.0	86744						
		72		} zone of brown bio hornfels. finer grn + brown cherty zones		98	1.5	86745						

GEOCHEMICAL ANALYTICAL REPORT
=====

CLIENT: GIBRALTAR MINES LTD.
ADDRESS: P.O. Box 130
: McLeese Lake, BC
: VOL 1PO

DATE: NOV. 02 1989

REPORT#: 890800 GA
JOB#: 890800

PROJECT#: NONE GIVEN
SAMPLES ARRIVED: OCT. 30 1989
REPORT COMPLETED: NOV. 02 1989
ANALYSED FOR: Au (FA/AAS)

INVOICE#: 890800 NA
TOTAL SAMPLES: 105
SAMPLE TYPE: 105 SOIL
REJECTS: DISCARDED

SAMPLES FROM: MR. G. BARKER
COPY SENT TO: GIBRALTAR MINES LTD.

PREPARED FOR: MR. G. BARKER



ANALYSED BY: VGC Staff

SIGNED:

----- *Raymond* -----

GENERAL REMARK: None

REPORT NUMBER: 890800 GA

JOB NUMBER: 890800

GIBRALTAR MINES LTD.

PAGE 1 OF 3

SAMPLE #	Au ppb
85701	nd
85702	nd
85703	nd
85704	nd
85705	80
85706	40
85707	210
85708	60
85709	50
85710	200
85711	140
85712	440
85713	500
85714	40
85715	100
85716	120
85717	20
85718	30
85719	80
85720	30
85721	20
85722	40
85723	30
85724	30
85725	30
85726	20
85727	20
85728	100
85729	20
85730	nd
85731	nd
85732	nd
85733	30
85734	20
85735	20
85736	nd
85737	90
85738	20
85739	nd

DETECTION LIMIT 5
 nd = none detected -- = not analysed is = insufficient sample

REPORT NUMBER: 890800 GA

JOB NUMBER: 890800

GIBRALTAR MINES LTD.

PAGE 2 OF 3

SAMPLE #	Au ppb
85740	30
85741	140
85742	20
85743	30
85744	30
86551	40
86552	20
86553	30
86554	30
86555	100
86556	30
86557	20
86558	20
86559	30
86560	30
86561	50
86562	30
86563	50
86564	40
86565	60
86566	60
86567	40
86568	30
86569	50
86570	60
86571	130
86572	70
86573	80
86574	40
86575	20
86576	40
86577	70
86578	20
86579	20
86580	30
86581	80
86582	50
86583	90
86584	40

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 890800 GA

JOB NUMBER: 890800

GIBRALTAR MINES LTD.

PAGE 3 OF 3

SAMPLE #	Au ppb
86585	30
86586	30
86587	90
86588	90
86589	60
86590	30
86591	60
86592	80
86593	100
86594	30
86595	100
86596	110
86597	50
86598	80
86599	30
86600	100
86601	120
86602	140
86603	nd
86604	20
86605	30
86606	50
86607	50
86608	30
86609	140
86610	20
86611	30

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

DCR CORE COPY

VGC VANGEOCHEM LAB LIMITED

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BRANCH OFFICES
PASADENA, NFLD.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

GEOCHEMICAL ANALYTICAL REPORT

CLIENT: GIBRALTAR MINES LTD.
ADDRESS: P.O. Box 130
: McLeese Lake, BC
: VOL 1PO

DATE: NOV. 30 1989

REPORT#: 890836B GA
JOB#: 890836B

PROJECT#: NONE GIVEN
SAMPLES ARRIVED: NOV. 28 1989
REPORT COMPLETED: NOV. 30 1989
ANALYSED FOR: Mo Cu Pb Zn Ag Au (FA/AAS)

INVOICE#: 890836B NA
TOTAL SAMPLES: 1
SAMPLE TYPE: 1 CORE PULP
REJECTS: DISCARDED

SAMPLES FROM: MR. GEORGE E. BARKER
COPY SENT TO: GIBRALTAR MINES LTD.

PREPARED FOR: MR. GEORGE E. BARKER



ANALYSED BY: VGC Staff

SIGNED:

Jaime C. Wong

GENERAL REMARK: None

DORE CORE COPY

VGC VANGEOCHEM LAB LIMITED

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RENO, NEVADA, U.S.A.

REPORT NUMBER: 890836B 6A

JOB NUMBER: 890836B

GIBRALTAR MINES LTD.

PAGE 1 OF 1

SAMPLE #	Mo	Cu	Pb	Zn	Ag	Au
	ppm	ppm	ppm	ppm	ppm	ppb
84745	2	89	18	100	.2	20

DETECTION LIMIT 1 1 2 1 0.1 5
 nd = none detected -- = not analysed is = insufficient sample

72RCONF COPY

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
1988 TRIUMPH ST.
VANCOUVER, B.C. V5L 1K5
• (604) 251-5656
• FAX (604) 254-5717

BRANCH OFFICES
PASADENA, NFLD.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

GEOCHEMICAL ANALYTICAL REPORT
=====

CLIENT: GIBRALTAR MINES LTD.
ADDRESS: P.O. Box 130
: McLeese Lake, BC
: VOL 1PO

DATE: NOV. 30 1989

REPORT#: 890836 GA
JOB#: 890836

PROJECT#: NONE GIVEN
SAMPLES ARRIVED: NOV. 28 1989
REPORT COMPLETED: NOV. 30 1989
ANALYSED FOR: Au (FA/AAS)

INVOICE#: 890836 NA
TOTAL SAMPLES: 121
SAMPLE TYPE: 121 CORE PULPS
REJECTS: DISCARDED

SAMPLES FROM: MR. GEORGE E. BARKER
COPY SENT TO: GIBRALTAR MINES LTD.

PREPARED FOR: MR. GEORGE E. BARKER



ANALYSED BY: VGC Staff

SIGNED: _____
George E. Barker

GENERAL REMARK: None

LORE CORE COPY

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RENO, NEVADA, U.S.A.

REPORT NUMBER: 890836 6A

JOB NUMBER: 890836

GIBRALTAR MINES LTD.

PAGE 1 OF 4

SAMPLE #	Au
5	ppb
84746	nd
84747	nd
84748	nd
84749	nd
84750	nd
84751	230
84752	80
84753	20
84754	20
84755	nd
84756	nd
84757	nd
84758	nd
84759	nd
84760	10
84761	60
84762	nd
84763	30
84764	nd
85765	20
85766	nd
85767	30
85768	nd
85769	nd
85770	20
85771	20
85772	20
85773	20
85774	nd
85775	nd
85776	40
85777	20
85778	nd
85779	110
85780	nd
85781	nd
85782	30
85783	20
85784	nd

DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample

DOR CORE COPY

VGC VANGEOCHEM LAB LIMITED

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BRANCH OFFICES
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REPORT NUMBER: 890836 GA

JOB NUMBER: 890836

GIBRALTAR MINES LTD.

PAGE 2 OF 4

SAMPLE #	Au ppb
85785	nd
85786	40
85787	20
85788	30
85789	50
85790	nd
85791	nd
85792	nd
85793	nd
85794	30
85795	nd
85796	nd
85797	nd
85798	nd
85799	180
85800	60
85801	nd
85802	30
85803	nd
85804	nd
85805	nd
85806	nd
85807	nd
85808	nd
85809	nd
85810	nd
85811	nd
85812	nd
85813	nd
85814	nd
85815	nd
85816	nd
85817	nd
85818	nd
85819	30
85820	160
85821	nd
85822	20
85823	20

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

LOR CORE COPY

VGC VANGEOCHEM LAB LIMITED

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BRANCH OFFICES
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BATHURST, N.B.
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RENO, NEVADA, U.S.A.

REPORT NUMBER: 890836 6A JOB NUMBER: 890836 GIBRALTAR MINES LTD. PAGE 3 OF 4

SAMPLE #	Au ppb
85824	nd
85825	nd
85826	nd
85827	50
85828	nd
85829	230
86612	30
86613	20
86614	20
86615	nd
86616	nd
86617	310
86618	20
86619	30
86620	20
86621	20
86622	30
86626	10
86627	nd
86628	nd
86629	nd
86630	nd
86631	nd
86632	nd
86633	nd
86634	nd
86635	nd
86636	nd
86637	nd
86638	nd
86639	nd
86640	nd
86641	nd
86642	nd
86643	nd
86644	nd
86645	nd
86646	nd
86647	30

DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample

DCR CORE COPY

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BRANCH OFFICES
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RENO, NEVADA, U.S.A.

REPORT NUMBER: 890836 GA

JOB NUMBER: 890836

GIBRALTAR MINES LTD.

PAGE 4 OF 4

SAMPLE #	Au
86648	ppb 20
86649	100
86650	nd
86651	nd

DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample

GEOCHEMICAL ANALYTICAL REPORT
=====

CLIENT: GIBRALTAR MINES LTD.
ADDRESS: P.O. Box 130
: McLeese Lake, BC
: VOL 1PO

DATE: JAN 10 1990

REPORT#: 900002 GA
JOB#: 900002

PROJECT#: NONE GIVEN
SAMPLES ARRIVED: JAN 08 1990
REPORT COMPLETED: JAN 10 1990
ANALYSED FOR: Au (FA/AAS)

INVOICE#: 900002 NA
TOTAL SAMPLES: 165
SAMPLE TYPE: 165 CORE PULPS
REJECTS: DISCARDED

SAMPLES FROM: MR. G. E. BARKER
COPY SENT TO: GIBRALTAR MINES LTD.

PREPARED FOR: MR. G. E. BARKER



ANALYSED BY: VGC Staff

SIGNED: _____

[Handwritten signature]

GENERAL REMARK: None

REPORT NUMBER: 900002 6A

JOB NUMBER: 900002

GIBRALTAR MINES LTD.

PAGE 1 OF 5

SAMPLE #	Au ppb
85830	40
85831	20
85832	nd
85833	20
85834	nd
85835	10
85836	nd
85837	nd
85838	10
85839	20
85840	20
85841	30
85842	20
85843	nd
85844	nd
85845	nd
85846	nd
85847	nd
85848	nd
85849	nd
85850	nd
85851	nd
85852	nd
85853	nd
85854	20
85855	10
85856	10
85857	30
85858	nd
85859	10
85860	30
85861	nd
85862	nd
85863	10
85864	40
85865	20
85866	10
85867	nd
85868	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

VGC VANGEOCHEM LAB LIMITED

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 RENO, NEVADA, U.S.A.

REPORT NUMBER: 900002 GA

JOB NUMBER: 900002

GIBRALTAR MINES LTD.

PAGE 2 OF 5

SAMPLE #	Au ppb
85869	nd
85870	nd
85871	nd
85872	nd
85873	nd
85874	nd
85875	30
85876	nd
85877	30
85878	nd
85879	nd
85880	nd
85881	nd
85882	nd
85883	10
85884	nd
85885	nd
85886	nd
85887	nd
86652	10
86653	10
86654	nd
86655	nd
86656	nd
86657	10
86658	10
86659	10
86660	10
86661	20
86662	30
86663	30
86664	30
86665	30
86666	30
86667	20
86668	30
86669	30
86670	120
86671	20

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 900002 GA

JOB NUMBER: 900002

GIBRALTAR MINES LTD.

PAGE 3 OF 5

SAMPLE #	Au ppb
86672	30
86673	40
86674	30
86675	30
86676	40
86677	40
86678	10
86679	20
86680	40
86681	40
86682	30
86683	20
86684	20
86685	30
86686	40
86687	30
86688	30
86689	20
86690	90
86691	20
86692	30
86693	30
86694	40
86695	20
86696	20
86697	30
86698	20
86699	40
86700	10
86701	20
86702	40
86726	90
86727	10
86728	20
86729	10
86730	nd
86731	20
86732	10
86733	20

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 900002 GA

JOB NUMBER: 900002

GIBRALTAR MINES LTD.

PAGE 4 OF 5

SAMPLE #	Au ppb
86734	30
86735	10
86736	20
86737	nd
86738	nd
86739	nd
86740	60
86741	10
86742	10
86743	nd
86744	70
86745	10
86746	10
86747	10
86748	10
86749	30
86750	nd
86751	nd
86752	130
86753	nd
86754	nd
86755	nd
86756	10
86757	20
86758	30
86759	nd
86760	nd
86761	10
86762	nd
86763	nd
86764	nd
86765	10
86766	nd
86767	nd
86768	10
86769	20
86770	260
86771	130
86772	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 900002 GA

JOB NUMBER: 900002

GIBRALTAR MINES LTD.

PAGE 5 OF 5

SAMPLE #	Au ppb
86773	10
86774	nd
86775	nd
86776	nd
86777	10
86778	nd
86779	nd
86780	10
86781	10

DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample

Gibraltar Assay Procedures.

Core is sampled in 10-foot (3.048m.) sections, crushed and passed through a Jones Splitter. The product is pulverized to minus 100 mesh and rolled. A 1/2 gram sample is weighed out and digested in a mixture of Potassium Chlorate, Nitric Acid, and Sulphuric Acid for a period of 30 minutes. Following digestion, each sample is bulked to 10% HCl and assayed in a Perkin Elmer 3030 Atomic Absorption Spectrophotometer.

GIBRALTAR MINES LIMITED
ASSAY CERTIFICATE

Dor Cor

Exploration

Date Dec 20 19 82

PPM

GXD89-4

Reverse order

Sample No.	% Ox. Cu.	Total Cu.	MoS ₂	Zn	Pb	Ag
85864		402	10	314	8	1.7
65		188	8	57	13	1.0
66		151	10	92	22	1.0
67		123	10	41	11	.8
68		133	9	49	22	1.3
69		172	14	26	13	1.2
70		174	11	18	12	.6
71		188	10	36	20	.7
72		230	14	50	16	.7
73		155	6	55	17	.6
74		118	7	20	6	.5
75		301	11	119	15	1.3
76		173	14	18	10	.8
77		116	12	20	14	.7
78		157	14	39	8	.8
79		200	5	45	15	.9
80		169	8	29	11	.6
81		294	64	40	14	.9
82		228	40	66	17	.9
83		173	8	293	33	1.0
84		223	13	34	13	.6
85		200	10	26	18	.7
86		182	14	23	12	.6
87 ✓		228	17	19	11	.9

GIBRALTAR MINES LIMITED
ASSAY CERTIFICATE

DOR Cote 8

Exploration

Date Dec 19, 1930

GxD89-4

Reversed order

Sample No.	% Ox. Cu.	Total Cu.	% MoS ₂	Zn	Pb	Ag
85837		111	9	101	20	.6
38		202	7	70	27	1.0
39		125	5	164	29	1.1
40		127	6	491	34	1.7
41		91	5	440	17	1.6
42		119	8	151	20	1.1
43		139	17	142	20	1.1
44		356	7	440	24	.9
45		273	17	108	19	1.2
46		138	13	40	13	.9
47		119	7	37	17	.9
48		132	21	82	12	.8
49		182	9	31	20	1.0
50		132	15	37	16	1.2
51		132	14	34	8	1.2
52		80	17	26	20	1.0
53		194	9	68	17	.9
54		199	15	41	22	1.3
55		100	7	30	14	.8
56		110	7	32	22	.7
57		185	12	38	22	1.2
58		134	13	24	11	1.2
59		104	23	25	8	1.0
60		140	5	28	11	1.0
61		103	10	24	10	1.4
62		108	11	22	8	1.7
63		120	4	39	13	1.1

38

Dor Cote

GIBRALTAR MINES LIMITED
ASSAY CERTIFICATE

EXPLORATION

Date7..DEC....., 19.89..

Sample No.	% Ox. Cu.	ppm Total Cu.	ppm $\frac{3}{8}$ MoS ₂	ppm Pb	ppm Zn	ppm Ag
GXD-89-6						
86743		118	9	4	22	1.3
44		71	8	16	114	1.8
45		86	7	32	113	1.4
46		86	7	11	69	1.3
47		73	5	9	44	1.0
48		168	5	15	214	1.4
49		123	9	13	209	1.8
50		113	19	9	31	1.3
51		215	10	11	26	1.5
52		133	15	4	25	1.0
53		97	10	8	225	1.1
54		96	18	10	64	1.2
55		115	12	12	27	1.0
56		122	8	12	28	1.2
57		113	14	9	73	1.0
58		170	40	12	216	1.8
59		106	10	7	326	1.3
60		121	9	10	72	1.4
61		136	13	10	56	1.7
62		156	11	4	108	1.6
63		147	19	12	58	1.4
64		132	9	10	94	1.5
65		115	9	11	52	1.4
66		106	10	11	73	1.5
67		190	13	25	62	1.5
68		226	12	23	112	1.7
69		103	12	22	73	1.9
70		41	7	12	32	1.6

GIBRALTAR MINES LIMITED
ASSAY CERTIFICATE

Dor Core

Exploration

Date Dec 6, 1989

GXD89-3

Ppm

revised

Sample No.	% Ox. Cu.	Total Cu.	MoS ₂	Zn	Pb	Ag
86678		121	10	82	9	1.0
79		109	10	71	13	1.4
80		90	11	56	11	1.3
81		98	12	48	9	1.1
82		96	10	89	15	1.4
83		95	11	55	11	1.3
84		119	11	70	10	1.1
85		97	8	60	8	1.1
86		110	13	63	14	1.4
87		106	10	50	11	1.2
88		136	24	51	11	1.3
89		146	20	72	9	1.0
90		116	9	82	11	1.0
91		128	8	57	10	1.1
92		97	8	39	11	1.0
93		88	8	48	13	1.0
94		118	9	43	8	1.0
95		37	6	47	8	1.2
96		74	8	143	12	1.3
97		82	4	147	14	1.4
98		71	8	54	9	1.1
99		210	10	43	9	1.0
100		141	8	51	11	1.0
01		121	8	65	8	1.0
02		151	11	61	7	1.0

GIBRALTAR MINES LIMITED
ASSAY CERTIFICATE

Dor Cove

Exploration

Date Dec 6 1939

GXD89-6

~~revised~~

Sample No.	% Ox. Cu.	Total Cu.	* MoS ₂	Zn	Pb	Ag
86726		96	6	19	6	.5
27		113	7	17	9	.5
28		135	11	19	7	.8
29		101	7	16	10	1.0
30		143	13	24	7	1.1
31		102	13	32	8	1.2
32		177	22	35	12	1.0
33		132	12	25	7	.9
34		126	11	30	5	.8
35		117	12	33	11	1.0
36		106	8	46	10	1.0
37		163	25	35	13	1.0
38		93	9	17	12	.8
39		90	8	18	10	.7
40		75	8	17	10	.7
41		73	7	17	12	.7
42		92	13	21	10	.6
GXD89-4						
85830		85	3	24	9	.8
31		158	5	36	11	.9
32		218	6	19	15	1.4
33		254	18	61	14	1.3
34		155	5	25	11	1.2
35		111	7	22	11	.8
36		140	6	21	11	.8

DOR COVE
GIBRALTAR MINES LIMITED
ASSAY CERTIFICATE

Exploration

Date Nov 27, 1989

GXD 89-3

Sample No.	% Ox. Cu.	Total Cu.	MoS ₂	Pb	Zn	Ag
86652		167	103	10	73	1.2
53		140	27	11	97	1.3
54		125	23	9	65	1.4
55		128	21	17	114	1.1
56		71	10	10	104	1.0
57		96	14	10	103	1.3
58		97	17	11	70	1.1
59		81	16	12	83	1.2
60		97	5	14	147	1.1
61		126	30	10	103	1.1
62		115	12	14	104	1.1
63		102	9	7	65	1.0
64		146	8	10	110	1.1
65		123	15	12	100	1.0
66		152	17	12	102	1.0
67		135	32	12	91	1.2
68		103	45	17	117	1.4
69		124	14	10	73	0.3
70		117	14	20	142	1.1
71		119	16	17	85	1.0
72		113	13	6	72	1.0
73		111	15	20	81	1.2
74		100	14	14	66	1.0
75		144	15	16	40	1.0
76		160	16	14	62	1.8
77		142	16	14	47	1.0
26						

DOR CORE

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration

Date Nov 23 1989

GXD89-3

PPM

Sample No.	% Ox. Cu.	Total Cu.	MoS ₂	Pb	Zn	Ag
86626		119	164	17	300	1.0
27		240	50	15	255	1.5
28		192	18	14	435	1.5
29		135	16	22	127	1.5
30		140	14	12	95	1.4
31		161	14	15	157	1.7
32		135	14	23	175	1.6
33		152	14	20	170	1.9
34		120	8	10	65	1.4
35		133	11	17	141	1.7
36		134	16	24	340	1.4
37		95	11	10	141	1.3
38		115	26	18	249	1.5
39		116	46	20	213	1.7
40		98	17	18	241	1.3
41		131	22	16	140	1.4
42		166	23	10	200	1.3
43		133	20	17	85	1.8
44		147	18	14	51	1.5
45		158	11	13	66	1.6
46		111	21	10	125	1.8
47		111	10	17	111	1.5
48		140	13	13	290	1.3
49		90	26	13	61	1.4
50		131	16	8	94	1.6
51		154	16	11	90	1.7

(26)

Lot Core

GIBRALTAR MINES LIMITED
ASSAY CERTIFICATE

Exploration

Date Nov 14, 1989

GXD 89-5

Sample No.	% Ox. Cu.	Total Cu.	MoS ₂	Pb	Zn	Ag
86612		151	22	19	47	2.0
13		154	268	12	55	2.0
14		706	11	15	89	2.4
15		253	7	15	47	2.0
16		202	6	13	42	2.0
17		8120	14	27	668	6.1
18		565	7	12	71	2.2
19		251	6	15	51	1.7
20		171	8	15	55	1.7
21		196	7	16	51	1.7
22		195	6	13	55	1.6
GXD 89-2						
85766		277	5	15	780	1.5
67		215	10	15	282	1.6
68		117	6	17	94	1.6
69		156	10	15	78	1.7
70		134	12	15	73	1.6
71		92	11	15	47	1.6
72		120	7	12	63	1.8
73		107	15	17	99	1.5
74		102	12	21	99	1.8
75		161	22	18	680	1.9
76		88	17	18	275	1.7
77		99	14	16	268	2.1
78		84	11	13	58	1.7
79		144	9	14	45	1.8
80		140	11	15	70	1.8
81		86	8	17	390	2.8
82		140	8	17	101	1.8
83		117	6	20	87	1.7
84		195	7	17	159	1.6
85		179	11	12	63	1.6

Dor Core
GIBRALTAR MINES LIMITED
ASSAY CERTIFICATE

Exploration

Date Oct 19 1989

GXD 89-5

Sample No.	% Ox. Cu.	Total Cu.	% MoS ₂	Pb	Zn	Ag
86551		145	4	11	40	1.2
86562		186	6	12	36	1.0
63		228	5	9	33	1.0
64		135	6	6	30	1.2
65		407	5	11	37	1.3
66		250	39	12	34	1.5
67		397	15	12	34	1.7
68		64	7	6	21	1.8
69		268	7	10	21	1.0
70		236	6	11	22	1.2
71		149	4	12	22	1.8
72		171	5	10	24	1.0
73		106	5	9	26	1.1
74		441	7	10	46	1.4
75		143	7	9	31	1.0
76		334	8	10	31	1.2
77		195	46	10	33	1.4
78		150	5	9	42	1.3
79		186	4	5	49	1.1
80		148	7	9	42	1.1
81		126	5	7	47	1.1
82		152	6	8	55	1.2
83		75	3	11	54	1.2
84		99	8	7	60	1.5
85		129	15	10	52	1.2
86		190	2	8	67	1.1
87		125	7	7	47	1.2
88 ✓		208	31	7	44	1.3
(28)						

Dor Core
GIBRALTAR MINES LIMITED
ASSAY CERTIFICATE

Date Oct 18, 1989

Exploration

GXD89-1

Sample No.	% Ox. Cu.	Total Cu.	# MoS ₂	Pb	Zn	Ag
85731		144	13	19	65	1.5
32		197	21	23	52	1.5
33		145	25	23	52	1.4
34		141	20	22	207	1.8
35		174	15	20	80	1.6
36		130	16	28	68	1.5
37		53	37	21	48	1.3
38		66	14	19	62	1.6
39		98	17	18	39	1.6
40		88	16	14	61	1.7
41		100	15	13	36	1.6
42		99	12	14	41	1.7
43		88	13	20	49	1.4
44		104	11	14	68	1.4
GXD89-5						
86552		589	18	22	41	1.6
53		224	13	21	33	1.6
54		200	14	33	66	1.3
55		1765	31	23	56	2.1
56		562	13	20	41	1.4
57		558	12	22	49	1.4
58		332	11	17	48	1.3
59		164	9	22	43	1.0
60		316	25	13	39	1.4
61		288	7	16	36	1.5
24						
Checks						
85711		428	11	30	164	2.4
12		572	11	22	73	2.0
13		818	12	22	735	4.0
24		87	14	20	55	1.2

Lox Core

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Exploration ~~Reassay~~

Date Oct 18 1989

GXD 89-1 checks ppm

Sample No.	% Cu	Total Cu.	% MoS ₂		
85701	ppm Cu	150			
02		80			
03		86			
04		100			
05		202			
06		170			
07		555			
08		120			
09		111			
10		318			
11	428	450			
12	572	560			
13	818	747			
14		169			
15		166			
16		166			
17		137			
18		220			
19		205			
20		226			
21		82			
22		112			
23		133			
24	87	87			
25		110			
26		104			
27		98			
28		100			
29		154			
30		174			

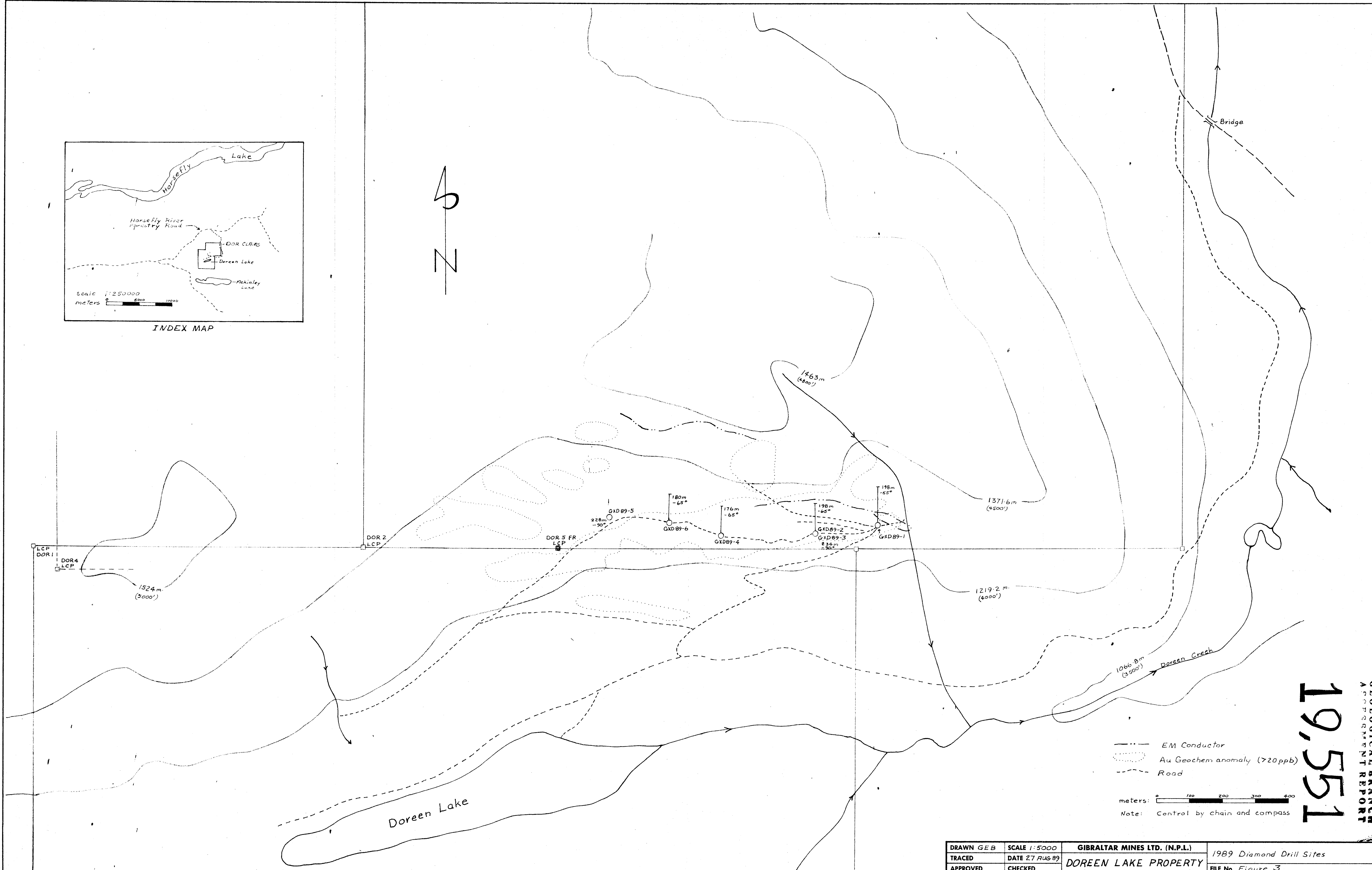
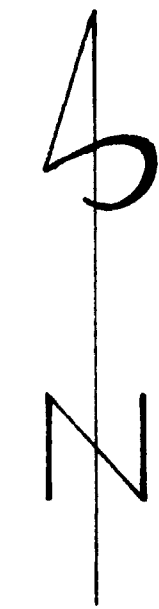
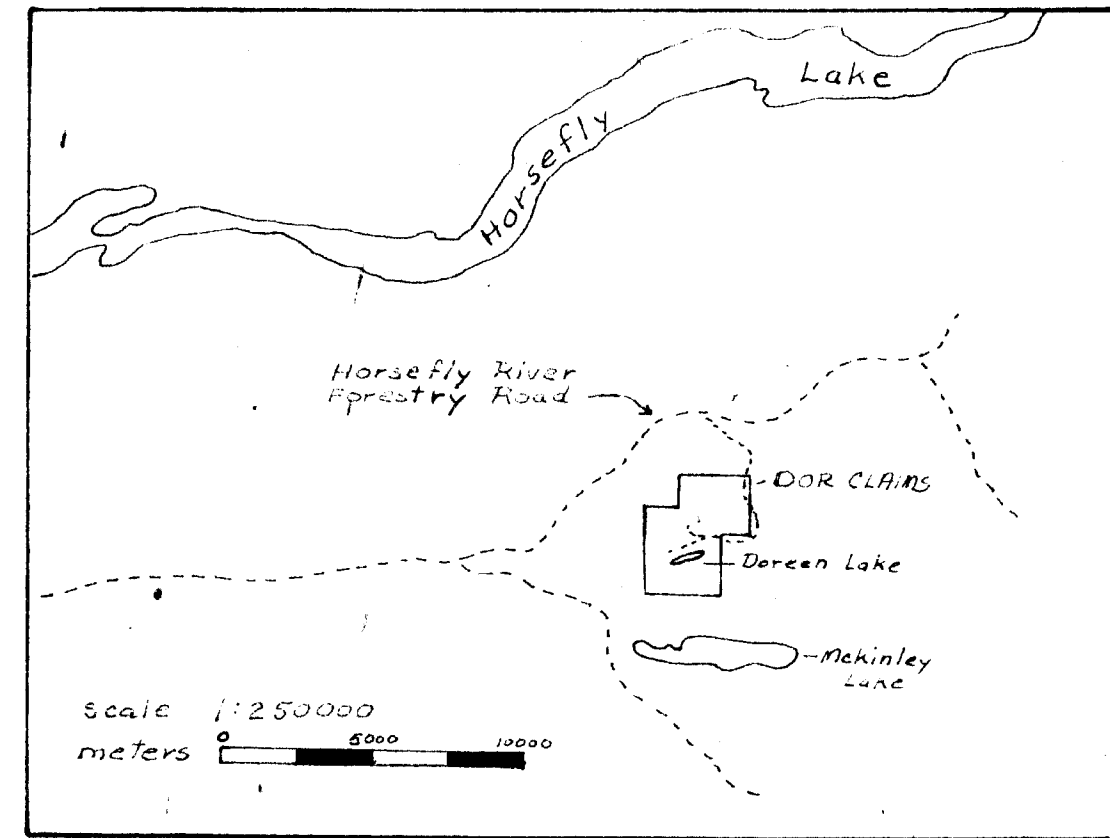
ASSAY CERTIFICATE

Exploration

Date 02/17/89

GXD89-1 PPM

Sample No.	% Gr. Cu.	% Total Cu.	% MoS ₂	Ppm Pb	Ppm Zn	Ppm Ag
85701	150	.12	20	21	35	2.0
02	80	.06	16	18	33	1.2
03	86	.07	19	20	31	1.4
04	100	.08	12	25	27	1.3
05	202	.15	18	22	97	2.4
06	170	.13	15	28	52	2.0
07	170	.37	11	33	41	3.0
08	120	.09	12	19	35	1.8
09	111	.08	10	11	27	1.2
10	cks ± 318	.24	17	21	45	2.0
11	(428) 439 450	.32	18	20	179	2.8
12	(572) 564 560	.39	20	20	73	2.2
13	(818) 787 747	.51	19	21	638	3.5
14	169	.13	19	15	145	1.8
15	166	.12	17	13	227	2.0
16	166	.14	14	20	80	2.0
17	137	.10	15	19	139	1.7
18	220	.15	20	16	63	1.4
19	205	.15	10	24	74	1.6
20	226	.17	8	20	58	2.1
21	82	.06	9	16	44	1.4
22	112	.09	10	20	42	1.3
23	133	.10	15	20	163	1.6
24	(81) 87	.65	20	17	52	1.2
25	110	.09	13	21	123	1.4
26	104	.08	16	20	161	1.2
27	99	.07	14	13	73	1.3
28	100	.09	19	14	75	1.5
29	154	.13	20	17	46	1.3
30 ✓	174	.13	11	18	60	1.7
30						



--- EM Conductor
 - - - Au Geochem anomaly (720 ppb)
 . . . Road
 meters: 0 100 200 300 400
 Note: Control by chain and compass

DRAWN GEB	SCALE 1:5000	GIBRALTAR MINES LTD. (N.P.L.)	1989 Diamond Drill Sites
TRACED	DATE 27 Aug 89	DOREEN LAKE PROPERTY	FILE No. Figure 3
APPROVED	CHECKED		

GEOLOGICAL BRANCH
 APPRAISAL REPORT
19,551