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.
VOL 1P0

Auther: G. E. Barker

Submitted: May 1991

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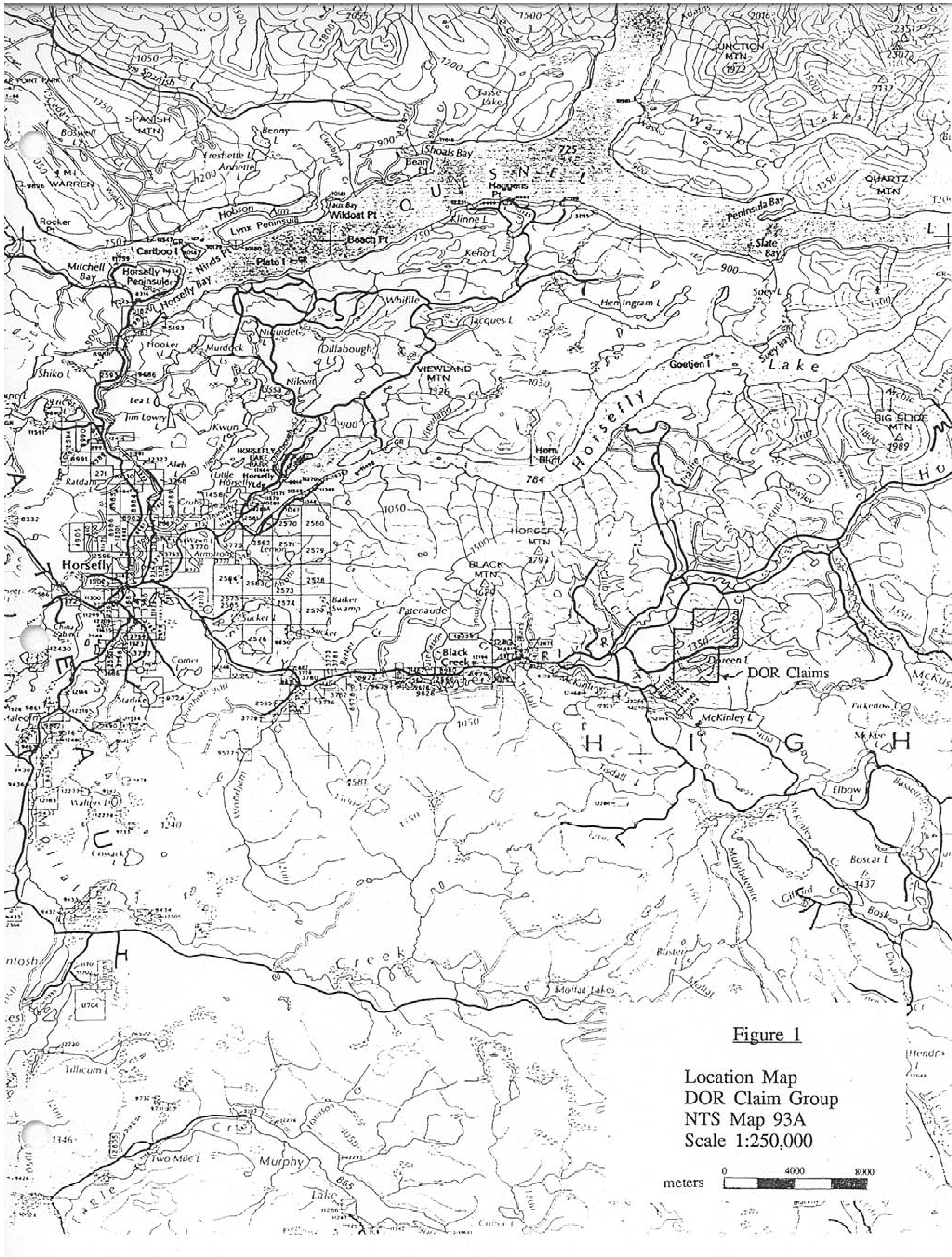

Figure 1

Location Map
DOR Claim Group
NTS Map 93A
Scale 1:250,000

meters 0 4000 8000

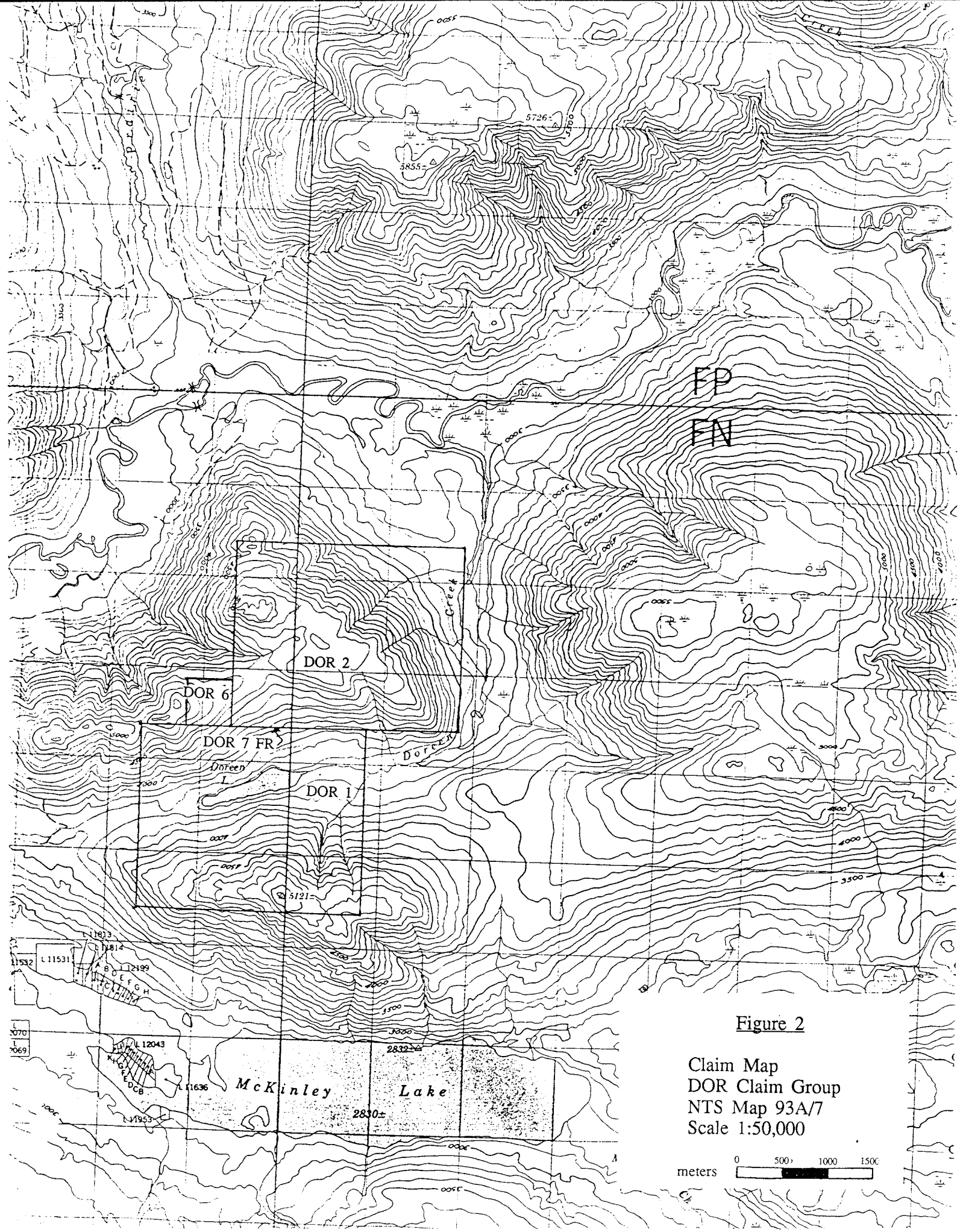

Figure 2

Claim Map
DOR Claim Group
NTS Map 93A/7
Scale 1:50,000

meters 0 500 1000 1500

BRIDGE

LOGGING ROAD

5000

CREEK

4000

4500

LCP
DOR 6

4800

4500

DOR 2
LCP

DOR 7 FR
LCP

LCP
DOR 1

5000

4000

CREEK

4500

CREEK

ROAD

3500

DOREEN CREEK

4000

Diamond Drill Hole
GXD905

DOREEN LAKE

CREEK

Control by chain and compass

Meters 0 100 200 300

Figure 3

GIBRALTAR MINES LTD.

Off Property Exploration
Doreen Lake Option

Diamond Drill Hole Location

Scale 1:10000 December 1990

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 EM anomaly was also delineated which was largely coincident with the geochemical anomaly. In 1984, the Dor claims were optioned to Noranda who confirmed the EM 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. During August 1989, Gibraltar carried out a 1,212 meter diamond drill program. Although results were encouraging no signifcant widths of ore grade material were encountered.

In 1990, Gibraltar Mines Ltd. completed a 12,000 meter IP survey and a follow-up 1,067 meter diamond drill program. This report covers one drill hole of the program, referred to as GXD905 which was completed during the period Sept. 23 to Sept. 29, 1991. The hole was located on the Dor 1 Mineral Claim. The core is currently stored at the Gibraltar Mines plantsite.

2. MINERAL CLAIMS

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

MINERAL CLAIMS	RECORD NO.	NO OF UNITS	DATE OF RECORD
DOR 1	3261	20	MARCH 27, 1981
DOR 2	4091	20	OCTOBER 15,1981
DOR 6	10885	1	SEPTEMBER 26, 1990
DOR 7 FR	10884	1	SEPTEMBER 26,1990

All claims are owned by Eureka Resources Inc. and were 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 purpose of drill hole GXD905 was to determine the cause of a moderate IP anomaly lying along the southwestern flank of the dioritic pluton.

4.2 Results

Drill hole GXD905 was drilled vertically to a depth of 213.65 meters. The location of the hole is shown in Figure 3. Copies of the drill log and assay sheets are provided in the Appendices of the report.

The hole was confined entirely within a black argillite formation which also contains very minor beds of tuff and irregular zones of breccia. The breccia zones appear less than

three meters in width and are characterized by angular argillite fragments in a grey-green fine grained matrix. The argillite lacks any well defined bedding structure except for a two meter wide finely laminated zone which clearly dips at 40 degrees. Disseminated fine grained pyrite and pyrrhotite occur throughout the hole in concentrations ranging between 0.5 and 1.5 percent. Graphite zones were also noted, and fine grained graphite appears to be a minor constituent of the black argillite. The argillite is cut by numerous quartz-carbonate veins and veinlets. Gypsum was also noted in several viens.

The core was assayed for copper, molybdenum disulphide, lead, zinc, silver amd gold. No ore grade values were encountered for any of the elements assayed. From a trace element perspective, only molybdenum disulphide appears to be significantly above background levels. Gold concentrations appear to be particularly low, compared with those occurring along the eastern flank of the pluton.

4.3 Interpretation

Drill hole GXD905 has encountered sufficient conductive material in the form of graphite and disseminated sulphides to account for the IP anomaly. The low metal concentrations intersected, particularly in gold, generally lower the probability of finding ore along the southwest edge of the pluton.

5. STATEMENT OF EXPENDITURES

1990 Diamond Drilling Program - DOR Claim Group.

1. Diamond Drilling Costs - Hole GXD905
   H. Allen Diamond Drilling Ltd.
   Cost per meter drilled: 213.66 m. X $39.14 per m. = $8,362.65

TOTAL	$8,362.65

6. CONCLUSIONS

No further work would be recommended within the general area around drill hole GXD905.

G. E. Barker
Exploration Geologist

GIBRALTAR MINES LIMITED

APPENDIX A. Statement of Qualifications - George E. Barker

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

1. I am a graduate of the University of Waterloo, Waterloo, Ontario, with a B.Sc. degree in General Science, 1985.

2. From 1978 to the present I have been engaged in mining and exploration geology in British Columbia.

3. I personally participated in the field work, logged the core and interpreted the results.

George E. Barker

APPENDIX B. Drill log

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD905 Page 1 of 7

LOCATION DOREEN OPTION BEARING — LATITUDE _____ CORE SIZE NQ

DATE COLLARED 23 SEPT 1990 LENGTH 213.65m (701') DEPARTURE _____ DATE 9 OCT 1990

DATE COMPLETED 29 SEPT 1990 DIP -90 ELEVATION _____ LOGGED BY G.E. BARKER

CASING TO 10.65m

BLACK ARGILLITE 10.65 to EOH

A fine grained grey-black rock with finely disseminated py (po) throughout (background values between 0.5 and 1.0 %) zones of breccia are noted on the graphic log. The breccia consists of angular and sub angular fragments of mainly dark and light grey argillite in a fine grain grey green (epidot) matrix. fragment size varies from 2mm up to about 3cm.

grey black argillite | Breccia

Quartz carbonate viening is wk. to mod. throughout. Graphite is str. in some zones and the increase is noted. Core hardness ave. about 5.5 to 6, harder (siliceous) zones are noted.

FOLN.	DEPTH	MINERALIZATION	REMARKS	BLOCKS	% REC	% SULF	SAMPLE No.	ASSAY VALUES Cu ppm	MoS_2 ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
				10.65									
ND	12	minor limonite to 28.6m	} core reduced to rounded pebbles	12.20	60	? 0.5	↑						
ND	15	qt3 carb	qt3 = quartz carb = carbonate py = pyrite	13.70	50	0.5	94403	164	15	17	107	1.3	5
				15.25	70		↓						
ND	18	fine qt3 carb sw	po = pyrrotite wk. = weak mod. = moderate str = strong	16.45	80	0.6	94404	107	13	16	132	1.2	nd
				17.35	75								
ND	21	qt3 carb 1/4" 25°	gyp = gypsum SW = stock work ( ) = minor amount (( )) = very minor amount	18.90	75	0.5	94405	108	17	17	181	1.4	nd
				19.50	50								
				20.40	65								
ND	24		: badly broken core ND = NON Directional	21.65	80	0.7	94406	96	24	15	186	1.6	nd
				24.05	85								
ND	27	qt3 carb gyp	↑ = increase ↓ = decrease ep = epidote	25.30	75	0.6	94407	130	15	14	225	1.5	nd
				27.45	85								
ND	30			28.65	80	0.7	94408	104	18	17	203	1.6	nd
					90								
ND	33	qt3 carb		31.70		0.5	94409	104	30	17	254	1.4	nd
				32.30	50								
				33.20	75								
				33.85	50								
ND	36	qt3 carb 1/8x2 45°	} core reduced to rounded pebbles	34.45	70	0.6 ?	94410	111	19	13	166	1.3	nd
				35.05	70								
					95								

nd = none detected

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 905 Page 2 of 7

GEOLOGY	FOLN.	DEPTH	MINERALIZATION	REMARKS	BLOCKS	% REC	% SULF	SAMPLE NO.	ASSAY VALUES Cu ppm	MoS_2 ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
	ND	39	fine qtz-carb sw	core reduced to rounded pebbles	36.55 38.40 39.00	98 60	0.5 ?	94411	110	13	15	205	1.2	nd
	ND	42	carb gypsum qtz carb ½" 45°		40.25 41.75	80 98	0.6	94412	98	13	13	154	1.3	5
	ND	45	qtz carb(py) ⅛"x4 40 to 50°		42.35 44.80	90 95	0.8	94413	80	11	14	120	1.1	nd
	ND	48	qtz carb qtz carb 1" 40°		46.65 48.45	85 90	0.7	94414	120	15	18	134	1.1	nd
	ND	51	qtz carb ⅛" 45°		50.60	100	0.5	94415	139	12	15	133	0.9	nd
	ND	54	qtz carb 1" 50°		52.75 53.95	90 75	0.5	94416	105	28	13	203	1.3	nd
	ND	57	qtz carb ⅛"x2 10°		55.15 56.40	95 95	0.6	94417	99	23	12	189	1.4	nd
	ND	60	qtz carb sw	↑ graphite	57.90 60.95	90 95	0.7	94418	118	17	14	193	1.5	nd
	ND	63	qtz carb		62.80	100	0.5	94419	118	42	12	289	1.5	nd
	ND	66		core reduced to rounded pebbles	63.70 64.90 66.15	75 75 90	0.4 ?	94420	131	24	17	181	1.0	nd
ep crystals in some fragments	ND	69	fine qtz carb sw	swirl pattern	68.25	90	0.5	94421	106	16	12	161	1.2	nd

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 905 Page 3 of 7

GEOLOGY	FOLN.	DEPTH	MINERALIZATION	REMARKS	BLOCKS	% REC	% SULF	SAMPLE NO.	ASSAY VALUES Cu ppm	MoS2 ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
	ND	72	qt3 carb 1/2" 45° qt3 carb 1/4" 55°		70·10 71·60	85 80	0·6	94422	104	15	15	175	1·2	nd
	ND	75	qt3 carb 1/2" 35°		72·85 75·90	75 95	0·6	94423	125	47	12	271	1·4	nd
	ND	78	qt3 carb 1/10"x3 35·45°		76·80	90	0·7	94424	111	42	12	254	1·5	nd
	ND	81	qt3 carb 1/8" 50° carb + gyp		78·65 81·05	96 95	0·8	94425	114	50	14	333	1·5	15
	ND	84	py "patches" qt3 carb	? graphite	83·50	95	1·2	94676	113	12	16	216	1·4	nd
	ND	87	carb gyp py "patches" organic	origin?	85·05 85·95 87·45	100 75 95	1·2	94677	104	11	13	163	1·1	nd
	ND	90	qt3 carb gyp py "patches"		88·70 89·30	85 90	1·3	94678	110	26	11	168	1·2	nd
	ND	93	qt3 carb 1/4" 45° qt3 carb 1/4" 50°		91·45 92·65	98 90	1·0	94679	136	20	17	192	1·3	nd
	ND	96	fine qt3 carb sw carb gyp		93·55 95·10 96·00	95 98 90	0·9	94680	106	14	12	149	1·0	nd
	ND	99	qt3 carb "streaky"		98·15 99·35	96 98	0·6	94681	112	27	13	167	1·0	nd
	ND	102	qt3 carb sw qt3 carb 3/4" 30°		101·20	100 90	0·7	94682	92	20	20	170	1·5	5

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 905 Page 4 of 7

GEOLOGY	FOLN.	DEPTH	MINERALIZATION	REMARKS	BLOCKS	% REC	% SULF	SAMPLE NO.	ASSAY VALUES Cu ppm	MoS_2 ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
distinct bands of black and grey sediment, black bands are aphenitic grey bands are a bit coarser – varve like bedding at about 40° to core axis.	ND	105	qt3 carb 1/8"xz 50° qt3 carb 1/8"x3 40-45°		102.10 103.30 103.65 105.15	96 100 98	0.6	94683	109	13	22	176	1.6	5
	ND	108	qt3 carb gyp qt3 carb 3/4" 45°		107.00 108.50	100 100	0.6	94684	128	5	19	123	1.3	nd
	ND	111	qt3 carb 1/2" 40° py "patch" qt3 carb 1" 45°		111.25	95	0.9	94685	78	43	22	183	2.3	10
	ND	114	carb gyp 1/8" 45°	↑ in carb	112.15 113.10	90 65	0.7	94686	73	25	25	124	2.1	nd
	ND	117	carb "patch" qt3 carb 1/4" 55°		115.20 117.95	100 90	0.5	94687	100	9	25	131	1.7	nd
	ND	120	qt3 carb sw		119.80	95	0.7	94688	111	6	21	136	1.5	nd
	ND	123	carb 1/4" 45°		120.70 121.90	95 90	0.5	94689	100	15	24	137	1.3	nd
	ND	126	qt3 carb (py) qt3 carb sw	↑ in carb	124.95	100	1.0	94690	99	22	23	137	1.6	nd
	ND	129	qt3 carb 3/4" 40° qt3 carb sw		128.00	100	0.7	94691	90	44	29	213	1.7	5
	ND	132	qt3 carb 1/4" 45° fine qt3 carb sw		129.55 132.30	98 90	0.8	94692	98	27	22	170	1.7	nd
	ND	135	qt3 carb 1/2" 45°		133.20	90	0.5	94693	102	24	24	158	1.7	nd

GIBRALTAR MINES LTD

EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 905 Page 5 of 7

GEOLOGY	FOLN.	DEPTH	MINERALIZATION	REMARKS	BLOCKS	% REC	% SULF	SAMPLE NO.	ASSAY VALUES Cu ppm	MoS_2 ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
Tuff ?	ND	138	qt3 carb sw		135.95	98								
					137.15	92	0.7	94694	107	22	23	146	1.8	nd
	ND	141	qt3 carb 1/4x2 45°		139.00	85								
					139.90	75	0.8	94695	110	10	23	148	1.7	nd
					141.10	75								
	ND	144	fine qt3 carb sw		142.05	96								
					143.85	92	0.8	94696	86	21	22	131	1.5	nd
	ND	147	qt3 carb 1/8"		145.70	90								
					146.30	50	0.7	94697	115	16	22	147	1.6	10
	ND	150	qt3 carb (py)		147.80	95								
					149.65	98	1.3	94698	101	20	27	149	1.7	nd
	ND	153	fine qt3 carb sw		151.20	90								
					152.40	90	0.9	94699	102	15	25	145	1.5	nd
					153.00	85								
					153.30	98								
	ND	156	qt3 carb(py) 1" 35° qt3 carb 1/2" 45°		154.20	85								
					155.45	75	1.2	94700	89	24	20	156	1.4	nd.
	ND	159	qt3 carb 1/2" 40° qt3 carb 1/8 x2		156.95	85								
					158.50	45	0.6	94701	92	20	26	164	1.6	nd
	ND	162		core reduced to small rounded pebbles	160.00	85								
					161.55	85	0.6 ?	94702	90	16	23	138	1.5	10
	ND	165	qt3 carb 1/2" 40°		163.05	80								
					164.90	90	0.7	94703	78	36	22	212	1.9	nd
	ND	168	qt3 carb sw qt3 carb (py) 1/2" 40°		167.35	90	1.0	94704	85	38	22	281	2.2	10

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EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 905 Page 6 of 7

GEOLOGY	FOLN.	DEPTH	MINERALIZATION	REMARKS	BLOCKS	% REC	% SULF	SAMPLE No.	ASSAY VALUES Cu ppm	MoS2 ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
	ND	171			169.75	90	0.7 ?	94705	98	18	23	165	1.7	nd
					170.40	90								
	ND	174	fine qt3 carb sw	slight ↑ in graphite	171.60	85	0.6	94706	99	22	22	138	1.6	nd
					172.50	70								
					174.05	65								
	ND	177	qt3 carb		175.85	95	0.5	94707	92	22	19	132	1.6	5
Tuff?					177.70	92								
	ND	180	qt3 carb 1/4" 40° qt3 carb (py)		179.50	96	0.9	94708	114	11	19	80	1.5	nd
	ND	183	qt3 carb 1/8 45°		180.75	90	0.6	94709	117	17	20	126	1.4	5
					182.25	80								
	ND	186	qt3 carb 1/8x2 40° qt3 carb (py)((cp))	cp = chalcopyrite	184.40	96	1.5	94710	159	15	20	116	1.8	nd
mixed zone tuff-Breccia? greywacky?														
	ND	189	qt3 carb 3/4" 35° qt3 carb "patch"		187.45	95	1.0	94711	126	19	21	134	1.8	nd.
					188.95	85								
	ND	192	qt3 carb sw qt3 carb (py) 1/8x3 40-45°		192.00	98	1.2	94712	115	22	26	127	2.0	10
	ND	195	fine qt3 carb sw		195.05	98	0.8	94713	107	24	14	152	2.3	nd
	ND	198	qt3 carb (py) 1/8 50° qt3 carb 1/8x2 45°		196.60	90	1.1	94714	99	25	18	200	1.6	nd
					198.70	98								
small light grey-green intrusive zone 200.2 to 201.1m	ND	201	qt3 carb chl 1" 45°	↑ in ep.	200.25	85	1.0	94715	113	25	18	199	1.9	nd

GIBRALTAR MINES LTD

EXPLORATION DIAMOND DRILL LOG

SCALE of LOG 1:200

HOLE NO GXD 905 Page 7 of 7

GEOLOGY	FOLN.	DEPTH	MINERALIZATION	REMARKS	BLOCKS	% REC	% SULF	SAMPLE No.	ASSAY VALUES Cu ppm	MoS2 ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
			qtz carb sw		201.75	90								
		204			203.30	85	1.0	94716	98	31	12	140	1.7	nd
Tuff + argillite					204.20	80								
			fine qtz carb sw		205.75	95								
		207			206.65	90	0.7	94717	130	10	17	138	2.2	nd
			qtz carb 1/4x2 40-50°		208.80	95								
		210				98	0.8	94718	87	42	17	220	2.2	nd
			fine qtz carb sw		210.60									
				↑ in graphite		98	0.6	94719	124	70	18	170	2.2	nd
		213			213.65									
END OF HOLE														

APPENDIX C. Assay Sheets

DRILL CORE 90

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
1630 PANDORA STREET
VANCOUVER, B.C.
V5L 1L6
TEL (604) 251-5656
FAX (604) 254-5717

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

REPORT NUMBER: 900717 GA JOB NUMBER: 900717 **GIBRALTAR MINES LTD.**

SAMPLE #	Au ppb
94371	5
94372	10
94373	15
94374	nd
94375	10
94376	10
94377	nd
94378	5
94379	10
94380	nd
94381	20
94382	nd
94383	5
94384	5
94385	20
94386	25
94387	nd
94388	5
94389	5
94390	10
94391	5
94392	nd
94393	5
94394	10
94395	10
94396	nd
94397	5
94398	5
94399	5
94400	15
94401	15
94403	5
94404	nd
94405	nd
94406	nd
94407	nd
94408	nd
94409	nd
94410	nd
DETECTION LIMIT	5

GXD905

nd = none detected -- = not analysed is = insufficient sample

DORE CORE 90

VGC VANGEOCHEM LAB LIMITED

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

REPORT NUMBER: 900717 GA JOB NUMBER: 900717 **GIBRALTAR MINES LTD.**

GXD905

SAMPLE #	Au ppb
94411	nd
94412	5
94413	nd
94414	nd
94415	nd
94416	nd
94417	nd
94418	nd
94419	nd
94420	nd
94421	nd
94422	nd
94423	nd
94424	nd
94425	15
94676	nd
94677	nd
94678	nd
94679	nd
94680	nd
94681	nd
94682	5
94683	5
94684	nd
94685	10
94686	nd
94687	nd
94688	nd
94689	nd
94690	nd
94691	5
94692	nd
94693	nd
94694	nd
94695	nd
94696	nd
94697	10
94698	nd
94699	nd
DETECTION LIMIT	5

nd = none detected -- = not analysed is = insufficient sample

DGR core '90

VGC VANGEOCHEM LAB LIMITED

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

REPORT NUMBER: 900717 GA JOB NUMBER: 900717 GIBRALTAR MINES LTD.

G-XD-905

SAMPLE #	Au ppb
94700	nd
94701	nd
94702	10
94703	nd
94704	10
94705	nd
94706	nd
94707	5
94708	nd
94709	5
94710	nd
94711	nd
94712	10
94713	nd
94714	nd
94715	nd
94716	nd
94717	nd
94718	nd
94719	nd

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

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

FLORATION

Date ..... 22...OCT...., 1990..

Sample No.	% Cx. Cu.	ppm Total Cu.	ppm % MoS_2	ppm Pb	ppm Zn	ppm Ag
94403	GXD 905	164	15	17	107	1.3
04		107	13	16	132	1.2
05		108	17	17	181	1.4
06		96	24	15	186	1.6
07		130	15	14	225	1.5
08		104	18	17	203	1.6
09		104	30	17	254	1.4
10		111	19	13	166	1.3
11		110	13	15	205	1.2
12		98	13	13	154	1.3
13		80	11	14	120	1.1
14		120	15	18	134	1.1
15		139	12	15	133	0.9
16		105	28	13	203	1.3
17		99	23	12	189	1.4
18		118	17	14	193	1.5
19		118	42	12	289	1.5
20		131	24	17	181	1.0
21		106	16	12	161	1.2
22		104	15	15	175	1.2
23		125	47	12	271	1.4
24		111	42	12	254	1.5
25	↓	114	50	14	333	1.5
94676	[illegible]	113	12	16	216	1.4
77		104	11	13	163	1.1
78		110	26	11	168	1.2
79		136	20	17	192	1.3
80		106	14	12	149	1.0
81	↓	112	27	13	167	1.0

cc: Assay Lab.

Assayer ....D.A.W.....

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

'LORATION

Date ..... 23 .... OCT. ..., 19. 94.

Sample No.	% Ox. Cu.	ppm Total Cu.	ppm % MoS_2	ppm Pb	ppm Zn	ppm Ag
94682		92	20	20	170	1.5
83		109	13	22	176	1.6
84		128	5	19	123	1.3
85		78	43	22	183	2.3
86		73	25	25	124	2.1
87		100	9	25	131	1.7
88		111	6	21	136	1.5
89		100	15	24	137	1.3
90		99	22	23	137	1.6
91		90	44	29	213	1.7
92		98	27	22	170	1.7
93		102	24	24	158	1.7
94		107	22	23	146	1.8
95		110	10	23	148	1.7
96		86	21	22	131	1.5
97		115	16	22	147	1.6
98		101	20	27	149	1.7
99		102	15	25	145	1.5
94700		89	24	20	156	1.4
01		92	20	26	164	1.6
02		90	16	23	138	1.8
03		78	36	22	212	1.9
04		85	38	22	281	2.2
05		95	18	23	165	1.7
06		99	22	22	138	1.6
07		92	22	19	132	1.6
08		114	11	19	80	1.5
09		117	17	20	126	1.4
10						
11						

cc: Assay Lab.

Assayer ..... D.A.W. .....

Form. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

XPLORATION

Date ..... 23 ..... OCT ..... , 19 90 ..

Sample No.	% Ox. Cu.	ppm Total Cu.	ppm % MoS_2	ppm Pb	ppm Zn	ppm Ag
94710	NOT	159	15	20	116	1.8
11		126	19	21	134	1.8
12		115	22	26	127	2.0
13		107	24	14	152	2.3
14		99	25	18	200	1.6
15		113	25	18	199	1.9
16		98	31	12	140	1.7
17		130	10	17	138	2.2
18		57	42	17	220	2.2
19		124	70	18	170	2.2

cc: Assay Lab.

Assayer ..... D.A.W. .....

APPENDIX D. Analytical Methods

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

1. Samples were crushed and pulverized to -80 mesh, mixed and bagged.

2. 1 g. of sample was weighed out and placed in a beaker.

3. 30 ml. of concentrated nitric acid containing 5% potassium chlorate was added.

4. The sample was digested under heat until all brown fumes disappeared.

5. 20 ml. of concentrated hydrochloric acid was then added and the sample further digested under heat for three minutes.

6. 25 ml. of 1% aluminum chloride was added and the solution made up to 200 ml. with water, then filtered.

7. A 50 ml. sample was taken and the elements were determined using a Perkin-Elmer 3030 atomic absorption spectrometer.

The core samples were analyzed at Vangeochem Laboratory in Vancouver, B.C. for gold. The following procedure was followed:

1. Samples were oven dried and sieved to -20 mesh.

2. 10 g. of sample was weighed out and digested in Aqua Regia.

3. The Aqua Regia solution was filtered.

4. Gold was extracted from the filtrate using a gold selective solvent.

5. Gold values in the solvent were determined using a Techtron AA5 atomic absorption spectrometer.