



ECHO BAY MINES LTD.

DIAMOND DRILLING - 1981

MAY MINERAL CLAIM
ECHO BAY 30 35 MINERAL CLAIMS
GORDON LAKE, NORTHWEST TERRITORIES

DOCUMENT
NUMBER

08 1383

THIS REPORT HAS BEEN EXAMINED AND
APPROVED AS TO TECHNICAL CONTENT UNDER
CERTIFICATE OF REGISTRATION OF THE
GEOLOGICAL SURVEY OF CANADA AND
VALID IN THE PROVINCE OF 49,268.64
DATE: 82-01-25 *[Signature]*
GEOLOGICAL SURVEY OF CANADA
YELLOWKIFE DIVISION

TRIGG, WOOLLETT CONSULTING LTD.

June, 1981

G.N. Woollett

ECHO BAY MINES LTD.

DIAMOND DRILLING - 1981

MAY MINERAL CLAIM

GORDON LAKE, NORTHWEST TERRITORIES

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ECHO BAY MINES LTD.

DIAMOND DRILLING - 1981

MAY MINERAL CLAIM

GORDON LAKE, NORTHWEST TERRITORIES

SUMMARY

Diamond drilling by previous owners of the MAY mineral claim indicated that gold values exist in a vein beneath Gordon Lake, N.W.T. Eleven diamond drill holes totalling 1,309 feet were drilled by Echo Bay Mines Ltd. to test this vein in April 1981. Four drill holes intersected a quartz vein containing visible gold over a strike length of 65 feet and to a depth of 90 feet below the surface of Gordon Lake. The vein is open at depth and to the south. Additional diamond drilling, totalling 500 feet is required to test the vein along strike to the south. Cost is estimated to be \$20,000.

INTRODUCTION

Location and Access

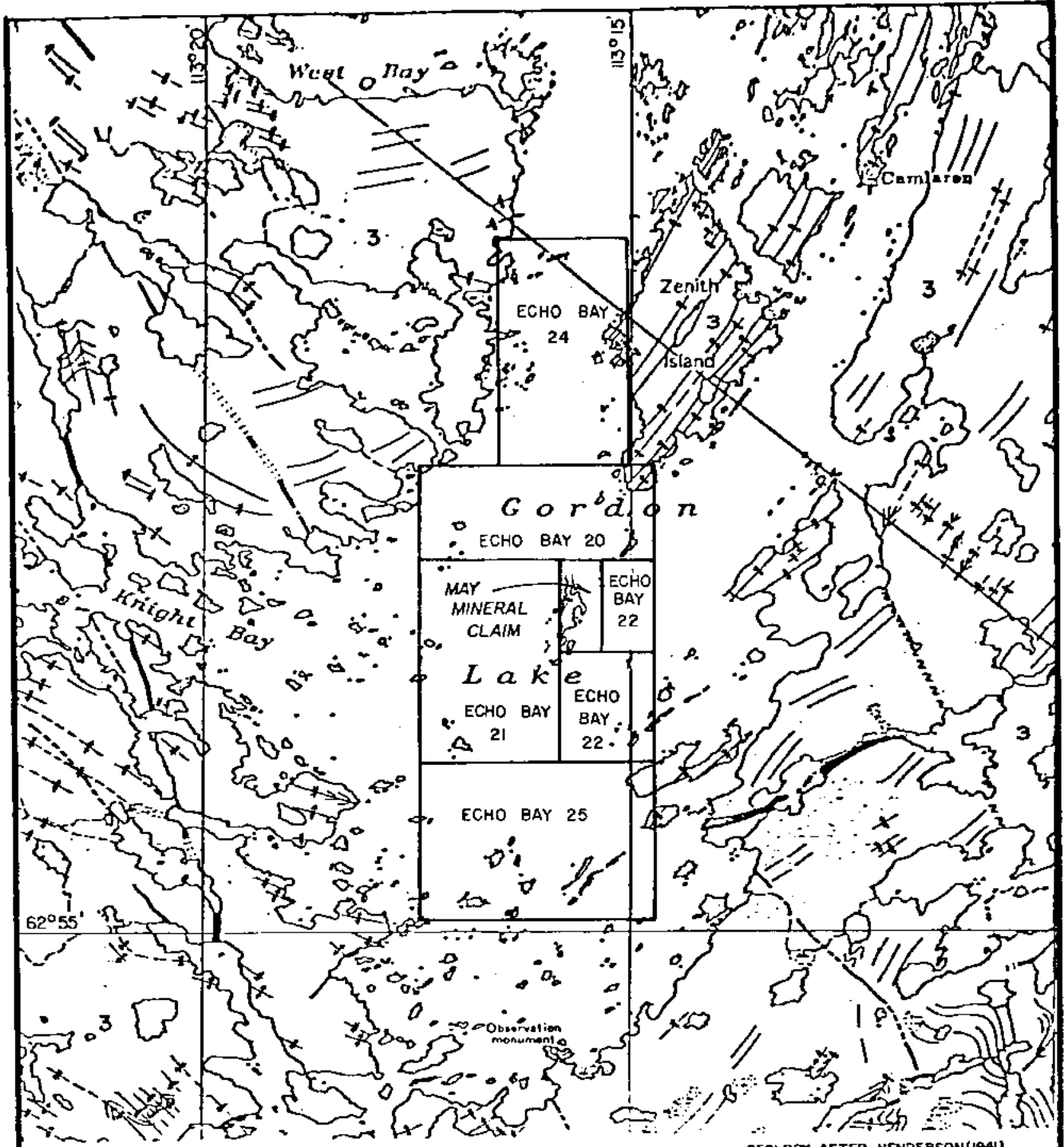
May mineral claim covers a small island in Gordon Lake, 48 miles northeast of Yellowknife, N.W.T. and 3 miles south-southwest of the Camlaren mine (Dwg 1615-1). The centre of the mineral claim is at 62°56'36" north latitude, 113°15'30" west longitude.

Access is by float- or ski-equipped aircraft or winter road. During the winter of 1980-81 a winter road connecting the Camlaren mine to the Ingraham Trail passed through the claim. Diamond drilling equipment was moved to the property and off the property by truck.

Property


The May mineral claim (N89415) consisting of 103.30 acres is owned by D. Nickerson of Yellowknife, N.W.T. The claim was recorded on March 1, 1978 and is in good standing until March 1, 1982. The May mineral claim is illustrated on mineral claim map 86I/14, Mackenzie Mining District.

Echo Bay Mines Ltd. is believed to hold an option to acquire the property from D. Nickerson.




GEOLOGY AFTER HENDERSON (1941)


LEGEND


 Echo Bay Mines claims


PROTEROZOIC
Diabase, Gabbro, Diorite


ARCHEAN
Greywacke, Slate, impure Arkose & Quartzite

 Trend of bedding (Beds are steeply inclined to vertical throughout the area and in many places are overturned)

 Bedding (upper side of lava flow faces as indicated, direction of dip unknown)

 Anticlinal axis (observed, inferred)

 Synclinal axis (observed, inferred)

 Fault, shear zone

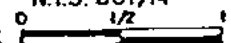
ECHO BAY MINES LTD.

GEOLOGY

MAY MINERAL CLAIM

GORDON LAKE N.W.T

N.T.S. B61/4

SCALE  MILE

TRIGG, WOOLLETT CONSULTING LTD. MAY, 1981

EDMONTON, ALBERTA

Six claims (Echo Bay 20, Echo Bay 21, Echo Bay 22, Echo Bay 23, Echo Bay 24, and Echo Bay 25) totalling 3,325 acres were staked by Echo Bay Mines Ltd. encompassing the May Claim.

HISTORY

Sovereign Yellowknife Mines Ltd. drilled 18 X-ray drill holes totalling 1619 feet from lake ice to test a quartz vein in 1947. Thirteen drill holes intersected visible gold (Nickerson). Location of drill holes is not known; assay values for only five holes is recorded on drill logs.

A hole drilled in 1958 is reported to have intersected minor copper mineralization; no record of this work is available (Ahuja 1975).

In 1975 the May 1 to May 4 claims were examined and veins sampled by S.P. Ahuja (Ahuja 1975).

Eleven holes were drilled by Echo Bay Mines Ltd. in 1981 to locate and test the gold bearing vein drilled by Sovereign Yellowknife Mines Ltd.

GEOLOGY

The May mineral claim is underlain by steeply dipping, isoclinally folded Archean greywacke and slate (Henderson 1941, Dwg 1615-1). Numerous parallel to sub-parallel narrow quartz veins are exposed on an island within the May mineral claim. Veins strike 350° - 010° and dip steeply to the east. Rock types, structure and quartz veining are similar to that at the Camlaren mine.

DIAMOND DRILLING

Eleven diamond drill holes totalling 1,309 feet were drilled on May mineral claim during April 1981. Drilling was performed by Carroll Exploration Ltd., of Yellowknife, N.W.T. A list of personnel together with dates on property is contained in Appendix I.

Holes were drilled from lake ice of Gordon Lake. IAWS size core was recovered and is stored in Yellowknife, N.W.T. Drill core containing veins was split; one-half sent for assay, one-half retained in core box for record.

Drill holes are plotted in plan (Dwg. 1615-2) and in vertical cross-sections (Dwgs 1615-3 to 1615-9); drill hole intersections are plotted on longitudinal projection (Dwg. 1615-10). Certificates of assay are contained in Appendix II, diamond drill logs are contained in Appendix III.

Drilling is summarized in Table I. Drilling indicates that gold exists in a quartz vein which occupies a graphitic shear zone trending 020 to 030°/70°E, within massive and fine-bedded greywacke. Visible gold was intersected in four drill holes over a strike length of 65 feet and to a depth of 90 feet below the surface of Gordon Lake. In addition, drill hole M81-3 intersected a quartz vein assaying 0.52 ounces gold per ton over 2.4 feet, 55 feet south along strike from the nearest drill hole containing visible gold.

Another quartz vein exists 15 to 40 feet in the footwall of the above vein. Although incompletely tested by diamond drilling, drill hole M81-8 intersected a fleck of visible gold and drill hole M81-3 intersected gold values assaying 0.700 ounces gold per ton over 2.8 feet in this vein.

CONCLUSION

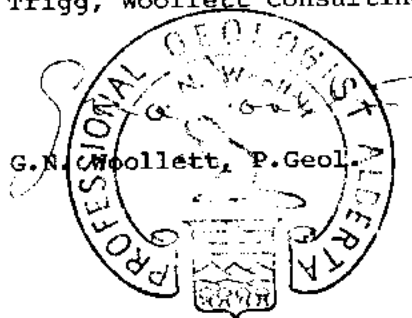
High gold values exist in a quartz vein on the May mineral claims. The gold bearing vein is open to the south and at depth. Additional drilling is required to test the vein south of drill hole M81-3.

Although high grade, insufficient tonnage exists to sustain a mining/milling facility unless additional gold values are discovered.

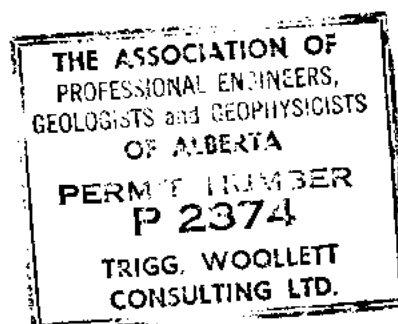
RECOMMENDATIONS

Additional diamond drilling totalling 500 feet in a minimum of three drill holes to test the gold bearing vein south of drill hole M81-3 is required. Cost is estimated to be \$20,000.

Trigg, Woollett Consulting Ltd.



June 25, 1981
Edmonton, Alberta



REFERENCES

- Ahuja, S.P. (1975) May 1 to 6 mineral claims, Gordon Lake, Northwest Territories, unpublished report prepared for Encore Resources by Trigg, Woollett & Associates Ltd.
- Henderson, J.F. (1941) Map 645A, Gordon Lake South, District of Mackenzie, Northwest Territories; Geological Survey of Canada.
- Nickerson, D. undated May Claims Gordon Lake, Northwest Territories, unpublished report.

CERTIFICATION

I, G. N. WOOLLETT OF 3531 - 112A STREET, EDMONTON, ALBERTA CERTIFY AND DECLARE THAT I AM A GRADUATE OF THE UNIVERSITY OF BRITISH COLUMBIA WITH A B.A. DEGREE IN GEOLOGY (1957). I AM REGISTERED AS A PROFESSIONAL ENGINEER IN THE PROVINCE OF BRITISH COLUMBIA AND AS A PROFESSIONAL GEOLOGIST IN THE PROVINCE OF ALBERTA.

MY EXPERIENCE INCLUDES SERVICE AS A GEOLOGIST WITH ELDORADO NUCLEAR LIMITED, PORT RADIUM, N.W.T.; ELDORADO NUCLEAR LIMITED, ELDORADO, SASKATCHEWAN; DENISON MINES LTD., VANCOUVER, BRITISH COLUMBIA; BRALORNE PIONEER MINES LTD., BRALORNE, BRITISH COLUMBIA AND CHIEF GEOLOGIST, J. FOSTER IRWIN ENGINEERING AND MANAGEMENT SERVICES LTD., EDMONTON, ALBERTA. I HAVE PRACTISED AS A CONSULTING GEOLOGIST WITH TRIGG, WOOLLETT & ASSOCIATES LTD. AND TRIGG, WOOLLETT CONSULTING LTD., SINCE 1968.

DIAMOND DRILLING CONDUCTED BY ECHO BAY MINES LTD. ON THE MAY MINERAL CLAIM WAS UNDER MY DIRECTION. I VISITED THE MAY MINERAL CLAIM ON MARCH 19, APRIL 8 AND APRIL 30, 1981.

I HAVE NO INTEREST DIRECT OR INDIRECT IN ECHO BAY MINES LTD. OR ANY OF THEIR PROPERTIES NOR DO I EXPECT ANY SUCH INTEREST EXCEPT FOR A RETAINED ROYALTY IN A MINERAL EXPLORATION PROGRAM IN BRITISH COLUMBIA.

JUNE 25, 1981

EDMONTON, ALBERTA

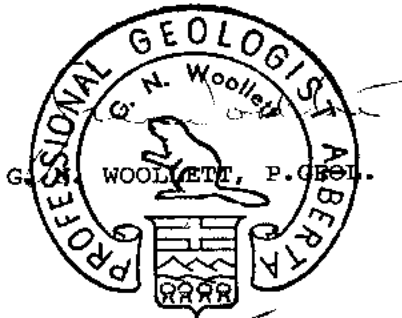


TABLE I
DIAMOND DRILLING SUMMARY

Hole No.	Location	Length (feet)	From	To	Width	Gold (oz/ton)	Comments	
M81-1	994.8N 1000.3E	153	117.9	119.5	1.6	0.940	Visible gold	0.67 over 7.3 feet
			119.5	121.0	1.5	0.190		
			121.0	123.0	2.0	1.200	Visible gold	
			123.0	125.2	2.2	0.330	Visible gold	
M81-2	970.7N 1030.1E	91	38.5	40.7	2.2	2.490	Visible gold	1.60 over 4.5 feet
			40.7	43.0	2.3	0.740		
M81-3	914.7N 1105.1E	152	78.5	80.9	2.4	0.520		
			117.8	120.6	2.8	0.700		
M81-4	1035.4N 1130.7E	94	50.2	52.2	2.0	0.330	Minor visible gold from 52.2 to 54.3	0.160 over 6.8 feet
			52.2	54.3	2.1	Tr		
			54.3	57.0	2.7	0.160		
M81-5	1035.4N 1131.9E	120	NV*					
M81-6	1059.9N 1131.2E	81	NV*					
M81-7	1015.1N 1113.1E	141	81.5	83.0	1.5	8.780	Visible gold	
			83.0	85.0	2.0	0.100		
M81-8	1015.3N 1111.6E	95	54.9	57.6	2.7	.095	Visible gold Minor visible gold	
			75.0	77.0	2.0	.015		
			77.0	78.6	1.6	Tr		
M81-9	970.7N 1123.4E	135	NV*					
M81-10	945.3N 1126.5E	136	NV*					
M81-11	945.3N 1124.8E	111	NV*					
TOTAL		1309						

*NV - No values greater than .05 oz gold per ton

APPENDIX I

PERSONNEL

APPENDIX I

PERSONNEL

Carroll Exploration Ltd.

Robert Carroll	-	driller	March 26 - April 24, 1981
Fred Sangris	-	helper	March 26 - April 11, 1981
Archie Sangris	-	cook/helper	March 26 - April 24, 1981
Richard Griffin	-	cook	April 16 - April 18, 1981
Paul Mackenzie	-	cook	April 18 - April 24, 1981

Echo Bay Mines Ltd.

Richard Moffett	-	geologist	March 26 - April 24, 1981
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APPENDIX II

CERTIFICATES OF ASSAY

To: TRIGG, WOOLLETT CONSULTING LTD.,
 10504 - 103rd Street,
 Edmonton, Alberta T5H 2V4



File No. 21394
 Date April 16, 1981
 Samples Core

ATTN: G.N. Woollett

Certificate of
 ASSAY of
LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	OZ./TON GOLD	GOLD GRAMS/TONNE
<u>"Core Samples"</u>		
83301	Trace	-
83302	Trace	-
83303	Trace	-
83304	Trace	-
83305	Trace	-
83306	Trace	-
83307	Trace	-
83308	Trace	-
83309	Trace	-
83310	Trace	-
83311	Trace	-
83312	Trace	-
83313	Trace	-
83314	Trace	-
83315	.940	32.23
83316	.190	6.51
83317	1.200	41.15
83318	.330	11.32
83319	Trace	-
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES		

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

D. Endrey

Assayer

To: TRIGG, WOOLLETT CONSULTING LTD.,
10504 - 103rd Street,
Edmonton, Alberta T5H 2V4



File No. 21394
Date April 16, 1981
Samples Core

ATTN: G.N. Woollett

Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	OZ./TON GOLD	GOLD GRAMS/TONNE
83320	Trace	-
83321	.005	.17
83322	.030	1.03
83323	Trace	-
83324	Trace	-
83325	Trace	-

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.

P. E. E. E.

Assayer

To: TRIGG, WOOLLETT CONSULTING LTD.,
 10504 - 103rd Street,
 Edmonton, Alberta T5H 2V4



File No. 21411
 Date April 23, 1981
 Samples Core

ATTN: G.N. Woollett

Certificate of
ASSAY of
LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	GRAMS/TONNE GOLD
<u>"Core Samples"</u>		
83326	Trace	-
83327	Trace	-
83328	Trace	-
83329	Trace	-
83330	Trace	-
83331	2.490	85.39
83332	.740	25.38

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

D. Enells

Assayer

To: TRIGG, WOOLLETT CONSULTING LTD.,
10504 - 103rd Street,
Edmonton, Alberta T5H 2V4

ATTN: G.N. Woollett



File No. 21452
Date May 29, 1981
Samples Core

Certificate of
ASSAY of
LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	Grams Per Tonne
"Core Samples"		
83333	.520	17.826
83334	Trace	-
83335	.700	24.996
83336	.330	11.312
83337	Trace	-
83338	.160	5.485
83339	.030	1.028
83340	.040	1.371
83341	Trace	-
83342	.010	.343
83343	.050	1.714

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.


Assayer

To: TRIGG, WOOLLETT CONSULTING LTD.,
10504 - 103rd Street,
Edmonton, Alberta T5H 2V4



File No. 21501
Date June 18, 1981
Samples Core

ATTN: G.N. Woollett

Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	OZ./TON GOLD	Grams Per Tonne
"Core Samples"		
83344	.005	.171
83345	Trace	-
83346	.010	.343
83347	Trace	-
83348	8.780	301.09
83349	.100	3.429
83350	.015	.514
83351	.025	.857
83352	.010	.343
83353	.010	.343
83354	.015	.514
83355	.010	.343
83356	Trace	-
83357	.010	.343
83358	.095	3.257
83359	.010	.343
83360	Trace	-
83361	Trace	-
83362	Trace	-

I *Hereby Certify* THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.

Assayer

To: TRIGG, WOOLLETT CONSULTING LTD.,
 10504 - 103rd Street,
 Edmonton, Alberta T5H 2V4



File No. 21501
 Date June 18, 1981
 Samples Core

ATTN: G.N. Woollett

Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	OZ./TON GOLD	Grams Per Tonne
83363	Trace	-
83364	Trace	-
83365	Trace	-
83366	Trace	-
83367	.015	.514
83368	Trace	-
83369	Trace	-

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

J. Enders

Assayer

To: TRIGG, WOOLLETT CONSULTING LTD.,
 10504 - 103rd Street,
 Edmonton, Alberta T5H 2V4



File No. 21551
 Date May 29, 1981
 Samples Core

ATTN: G.N. Woollett

Certificate of
ASSAY of
LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	Grams Per Tonne
<u>"Core Samples"</u>		
83370	.005	.174
83371	.010	.343
83372	.010	.343
83373	Trace	-
83374	Trace	-
83375	Trace	-
83376	Trace	-
83377	.010	.343

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

G.N. Woollett
 Assayer

APPENDIX III

DIAMOND DRILL LOGS

ECHO BAY MINES LTD.

DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT
Hole No. M81-1

LOCATION May Claim
SECTION _____
LATITUDE 994.8 N
DEPARTURE 1000.3
AZIMUTH 090.0°

ELEVATION Lake + 0.8'
LENGTH 153.0'
PURPOSE test vein
STARTED March 29, 1981
COMPLETED April 1, 1981

DIP TESTS		
FOOTAGE	TUBE	CORR.
150'	-48°	40°30'

INITIAL DIP -50°

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES				
			FROM	TO	WIDTH	Au oz/ton	
0.0- 2.4	CASING						
2.4- 5.8	OVERBURDEN						
5.8- 37.9	GREYWACKE Black, grey, fine-grained, strong schistosity, bedding is 25° to core axis, some frequent white quartz stringers 2 - 4 mm wide, some pyrite is present. (7.2- 8.6) Strong graphite rich zone with fragments of white quartz, core is broken, no visible mineralization (32.3-32.5) Small white quartz veinlet, barren.	83301	36.5	37.9	1.4	Tr	
37.9- 38.7	VEIN ZONE White quartz vein, coarse-grained, contacts at 35° to core axis, no mineralization, contacts not same as bedding	83302	37.9	38.7	0.8	Tr	
38.7- 49.0	GREYWACKE As above.	83303 83304	38.7 47.5	40.0 49.0	1.3 1.5	Tr Tr	
49.0- 49.7	VEIN ZONE White quartz vein, coarse-grained, some pyrite mineralization vein contacts at 35° to core axis.	83305	49.0	49.7	0.7	Tr	
49.7-104.3	GREYWACKE As above. There are more small quartz stringers in this section some are conformable to the bedding, others can be seen to be folded. There are a few pink carbonate fracture in fillings.	83306 83307	49.7 102.0	51.0 104.3	1.3 2.3	Tr Tr	

ECHO BAY MINES LTD.

DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT
Hole No. M81-2

LOCATION May Claim
SECTION
LATITUDE 970.7 N
DEPARTURE 1030.1 E
AZIMUTH 094.4°

ELEVATION Lake + 0.8' ...
LENGTH 91.0'
PURPOSE test vein
STARTED April 3, 1981
COMPLETED April 6, 1981

DIP TESTS		
FOOTAGE	TUBE	CORR.
90.0'	49.5°	42°
INITIAL DIP. <u>-50°</u>		

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES				
			FROM	TO	WIDTH	Au	
0.0-5.2	CASING					oz/ton	
5.2-13.4	GREYWACKE Black, grey, fine-grained, well-bedded; pyrite mineralization. Some small erratic quartz stringers. Bedding is at 20 degrees to core axis.	83320	12.5	14.5	2.0	Tr	
13.4-13.9	VEIN ZONE White, grey, coarse-grained quartz vein, pyrite mineralization, contacts 45 degrees to core axis.						
13.9-19.6	GREYWACKE As above.	83321	18.0	19.6	1.6	.005	
19.6-41.2	VEIN ZONE White, grey, coarse-grained quartz vein, pyrite mineralization, contact 45 degrees to core axis. (25.0-26.0) Strong graphitic zone. (27.5-27.9) Strong graphitic zone. (30.1-30.3) Graphitic with pyrite. (38.5-40.7) Much pyrite, sphalerite, galena, specks of visible gold throughout.	83322	19.6	21.5	1.9	.030	
		83323	21.5	23.5	2.0	Tr	
		83324	23.5	25.5	2.0	Tr	
		83325	25.5	28.1	2.6	Tr	
		83326	28.1	30.0	1.9	Tr	
		83327	30.0	32.0	2.0	Tr	
		83328	32.0	34.0	2.0	Tr	
41.2-91.0	GREYWACKE Grey, black, homogenous, no erratic stringers, good bedding at 35 to 45 degrees to core axis, poor cleavage.	83329	34.0	36.0	2.0	Tr	
		83330	36.0	38.5	2.5	Tr	
		83331	38.5	40.7	2.2	2.490	1.600 over
91.0	END OF HOLE.	83332	40.7	43.0	2.3	.740	4.5'

R. Moffett

ECHO BAY MINES LTD.

DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT
Hole No. M81-3

Page 1 of 1

LOCATION May Claim.....

SECTION

LATITUDE 914.7 N.....

DEPARTURE 1105.1 E.....

AZIMUTH 271.1°.....

ELEVATION Lake + 0.6'....

LENGTH 152.0'.....

PURPOSE test vein.....

STARTED April 7, 1981

COMPLETED April 9, 1981

DIP TESTS

FOOTAGE	TUBE	CORR.
150	-43°	36°

INITIAL DIP.....-48°.....

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES			
			FROM	TO	WIDTH	Au oz/ton
0.0- 17.0	CASING					
17.0- 79.1	GREYWACKE Grey-black, homogenous, very few erratic quartz stringers, some pyrite.					
79.1- 79.6	VEIN ZONE White quartz vein, coarse-grained, no mineralization.	83333	78.5	80.9	2.4	.520
		83334	80.9	83.6	2.7	Tr
79.6- 80.3	GREYWACKE As above					
80.3- 80.9	VEIN ZONE White quartz vein, coarse-grained, no mineralization.					
80.9- 81.6	GREYWACKE As above					
81.6- 81.9	VEIN ZONE White quartz, coarse-grained, no mineralization.					
81.9-118.6	GREYWACKE As above					
		83335	117.8	120.6	2.8	.700
118.6-119.8	VEIN ZONE White quartz vein, pyrite mineralization					
119.8-152.0	GREYWACKE As above.					
152.0	END OF HOLE.					

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ECHO BAY MINES LTD.

DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT
 Hole No. M81-4
 Page 1 of 1

LOCATION May Claim ELEVATION Lake + 0.6'
 SECTION ----- LENGTH 94.0'
 LATITUDE 1035.4 N PURPOSE test vein
 DEPARTURE 1130.7 E STARTED April 10, 1981
 AZIMUTH 270.9° COMPLETED April 13, 1981

DIP TESTS		
FOOTAGE	TUBE	CORR.
90.0'	-47°	39°30'

INITIAL DIP -----45°-----

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES			
			FROM	TO	WIDTH	Au oz/ton
0.0- 7.0	CASING					
7.0-52.2	GREYWACKE Black, grey, fine-grained, good schistocity, cleavage at 40° to core axis. Good bedding evident 15° to core axis. No erratic stringers, very homogenous rock unit, pyrite found throughout.	83336	50.2	52.2	2.0	.330
52.2-54.3	VEIN ZONE Coarse-grained white quartz vein, contacts are 45° to core axis. Quartz is darkened by black graphitic inclusions. Pyrite throughout. (53.6) Small spot of visible gold.	83337	52.2	54.3	2.1	Tr
54.3-94.0	GREYWACKE Black, grey, fine-grained, good schistocity, good cleavage. Rock alternates between, dark unit and lighter units which define the bedding, bedding is from 10 - 25° to core axis. Frequent small quartz lenses are present, some strong graphitic zones.	83338	54.3	57.0	2.7	.160
94.0	END OF HOLE.					

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DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT

Hole No. M81-5

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LOCATION May Claim

SECTION

LATITUDE 1035.4 N

DEPARTURE 1131.9 E

AZIMUTH 270.9°

ELEVATION Lake + 0.7'

LENGTH 120.5'

PURPOSE test vein

STARTED April 14, 1981

COMPLETED April 15, 1981

DIP TESTS

FOOTAGE	TUBE	CORR.
120.0	-69°	63°30'

INITIAL DIP -70

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES			
			FROM	TO	WIDTH	Au oz/ton
0.0- 7.0	CASING					
7.0- 76.7	GREYWACKE Black, grey, fine-grained, homogenous texture, no erratic quartz stringers, pyrite mineralization.	83339	75.0	76.7	1.7	.030
76.7- 77.1	VEIN ZONE Coarse-grained white quartz vein, pyrite mineralization, contacts 35° to core axis.					
77.1- 89.0	GREYWACKE Black, grey, fine-grained, alternating dark and light zones, bedding at 10° to core axis, cleavage is parallel to bedding. (80.0-81.5) Strong graphite rich zone.	83340	76.7	77.7	1.0	.040
		83341	77.7	79.4	1.5	Tr
89.0- 90.4	VEIN ZONE Strong graphitic shear with white quartz material, much pyrite mineralization.	83342	88.5	91.0	2.5	.010
90.4-105.0	GREYWACKE As above.					
105.0-106.3	VEIN ZONE Series of erratic white quartz stringers, pyrite mineralization.	83343	104.5	106.5	2.0	.050
106.3-120.5	GREYWACKE As above.					
120.5	END OF HOLE					

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DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT
 Hole No. M81-6
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LOCATION May Claim
 SECTION _____
 LATITUDE 1059.9 N
 DEPARTURE 1131.2 E
 AZIMUTH 270.4°

ELEVATION Lake + 0.5'
 LENGTH 81.0'
 PURPOSE test vein
 STARTED April 16, 1981
 COMPLETED April 17, 1981

DIP TESTS

FOOTAGE	TUBE	CORR.
81.0	66°30'	60°30'

INITIAL DIP -70

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES			
			FROM	TO	WIDTH	AU oz/ton
0.0- 5.0	CASING					
5.0-46.0	GREYWACKE Black, grey, fine-grained, homogenous, no erratic quartz stringers, good bedding 10-15° to core axis, foliation is along the bedding.					
46.0- 46.9	VEIN ZONE Small series of white quartz veinlets, pyrite mineralization.	83344	45.0	47.0	2.0	.005
46.9-50.1	GREYWACKE Black, grey, fine-grained, small erratic quartz stringers throughout, some graphitic lenses.	83345	47.0	49.0	2.0	Tr
50.1- 51.2	VEIN ZONE Dark graphitic material with a series of small quartz stringers, much pyrite.	83346	49.0	52.0	3.0	.010
51.2-81.0	GREYWACKE As above. (54.4-55.0) Small white quartz veinlet, no mineralization, sub parallel to core axis.					
81.0	END OF HOLE					

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DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT
 Hole No. M81-7
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LOCATION May Claim.....
 SECTION
 LATITUDE 1015.1 N.....
 DEPARTURE 1113.1 E.....
 AZIMUTH 271.0°.....

ELEVATION Lake ± 0.9'.....
 LENGTH 141.0'.....
 PURPOSE test vein.....
 STARTED April 18, 1981
 COMPLETED April 19, 1981

DIP TESTS

FOOTAGE	TUBE	CORR.
125.0	-69.0	63°30'

INITIAL DIP -70.....

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES			
			FROM	TO	WIDTH	Au oz/ton
0.0- 5.0	CASING					
5.0- 81.6	GREYWACKE Black, grey, fine-grained, very massive and homogenous, no erratic veinlets.	83347	79.5	81.5	2.0	Tr
		83348	81.5	83.0	1.5	8.780
81.6- 82.9	VEIN ZONE White coarse-grained quartz vein with pink carbonate stringers, chalcopryrite, much visible gold.					
82.9- 83.7	GREYWACKE Black, grey, fine-grained, bedding is well defined by alternating layers of dark and light rock, small erratic quartz stringers throughout, some graphitic layers.	83349	83.0	85.0	2.0	.100
83.7- 84.0	VEIN ZONE Small, dark coarse-grained quartz vein with chalcopryrite.					
84.0- 96.1	GREYWACKE As above.	83350	94.0	96.0	2.0	.015
		83351	96.0	98.0	2.0	.025
		83352	98.0	100.0	2.0	.010
96.1-102.6	VEIN ZONE White, grey, coarse-grained quartz vein, many graphitic stringers and darker wallrock inclusions, pyrite.	83353	100.0	102.0	2.0	.010
		83354	102.0	104.0	2.0	.015
102.6-126.6	GREYWACKE As above.	83355	126.0	128.0	2.0	.010

ECHO BAY MINES LTD.

DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT

Hole No. M81-7

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LOCATION

SECTION

LATITUDE

DEPARTURE

AZIMUTH

ELEVATION

LENGTH

PURPOSE

STARTED

COMPLETED

DIP TESTS

FOOTAGE	TUBE	CORR.

INITIAL DIP.....

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES				
			FROM	TO	WIDTH	Au oz/ton	
126.6-127.5	VEIN ZONE Weak, coarse-grained quartz vein, some pyrite.						
127.5-132.3	GREYWACKE As above.						
132.3-133.0	VEIN ZONE White coarse-grained vein, pyrite and pyrrhotite.						
133.0-141.0	GREYWACKE As above.	83356	131.0	134.0	2.0	Tr	
141.0	END OF HOLE						

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DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT

Hole No. M81-8

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LOCATION May Claim

SECTION _____

LATITUDE 1015.3 N

DEPARTURE 1111.6 E

AZIMUTH 271.0°

ELEVATION Lake + 1.3'

LENGTH 95.0'

PURPOSE test vein

STARTED April 19, 1981

COMPLETED April 19, 1981

DIP TESTS

FOOTAGE	TUBE	CORR.
95.0	-49°	41°30'

INITIAL DIP. -45°

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES			
			FROM	TO	WIDTH	Au oz/ton
0.0- 5.0	CASING					
5.0- 54.9	GREYWACKE Black, grey, fine-grained, very homogenous, no erratic stringers, good cleavage, bedding well developed.	83357	53.0	54.9	1.9	.010
54.9- 57.6	VEIN ZONE White coarse-grained quartz, pyrite, sphalerite; dark graphitic stringers; some pink carbonate stringers.	83358	54.9	57.6	2.7	.095
57.6- 61.6	GREYWACKE Black, grey fine-grained frequent erratic white quartz stringers, strong graphitic zones, pyrite.	83359 83360	57.6 60.0	60.0 61.6	2.4 1.6	.010 Tr
61.6- 63.1	VEIN ZONE Cream quartz-carbonate vein, weak pyrite mineralization.	83361	61.6	63.1	1.5	Tr
63.1- 69.2	GREYWACKE As above.	83362 83363	63.1 67.2	65.1 69.2	2.0 2.0	Tr Tr
69.2- 70.1	VEIN ZONE Coarse-grained, white quartz vein, pyrite.	83364	69.2	71.0	1.8	Tr
70.1- 71.7	SHEAR ZONE Strong graphitic shear, small quartz stringers, pyrite	83365	71.0	73.0	2.0	Tr
71.7- 78.6	VEIN ZONE Massive white quartz vein, some dark patches, minor sphalerite and chalcopyrite.	83366 83367	73.0 75.0	75.0 77.0	2.0 2.0	Tr .015

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DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT

Hole No. M81-8

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LOCATION

SECTION

LATITUDE

DEPARTURE

AZIMUTH

ELEVATION

LENGTH

PURPOSE

STARTED

COMPLETED

DIP TESTS

FOOTAGE	TUBE	CORR.

INITIAL DIP.....

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES			
			FROM	TO	WIDTH	Au oz/ton
78.6- 95.0	(75.0) Small fleck visible gold.	83368 83369	77.0 78.6	78.6 80.6	1.6 2.0	Tr Tr
	(77.0) Small fleck visible gold.					
	GREYWACKE As above.					
95.0	END OF HOLE					

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DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT
 Hole No. M81-9
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LOCATION May Claim
 SECTION _____
 LATITUDE 970.7 N
 DEPARTURE 1123.4 E
 AZIMUTH 269.5°

ELEVATION Lake + 0.5'
 LENGTH 135.0'
 PURPOSE Test vein
 STARTED April 20, 1981
 COMPLETED April 21, 1981

DIP TESTS

FOOTAGE	TUBE	CORR.
135.0	-64°	57°30'

INITIAL DIP.....-66°.....

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES			
			FROM	TO	WIDTH	Au oz/ton
0.0- 11.0	CASING					
11.0-103.0	GREYWACKE Black, grey, fine-grained, good bedding and foliation, massive homogenous unit, no erratic quartz stringers.	83370	102.7	104.7	2.0	.005
103.0-104.0	VEIN ZONE Weak series of small white quartz stringers, some graphitic material, 30° to core axis. Badly broken ground could possibly be a shear zone. No mineralization.					
104.0-126.2	GREYWACKE Black, grey, fine-grained, good bedding and foliation, many small erratic white quartz stringers, some graphitic layers. (109.7-110.0) Small coarse-grained quartz stringer.	83371	126.0	129.0	2.0	.010
126.2-128.2	VEIN ZONE Coarse-grained white quartz vein sub-parallel to core axis, minor pyrite mineralization. Many zones of wallrock included in vein.					
128.2-135.0	GREYWACKE As above.					
135.0	END OF HOLE					

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DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT

Hole No. M81-10

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LOCATION May Claim

SECTION

LATITUDE 945.3 N

DEPARTURE 1126.5 E

AZIMUTH 271.4°

ELEVATION Lake ± 0.7'

LENGTH 136.0'

PURPOSE test vein

STARTED April 22, 1981

COMPLETED April 23, 1981

DIP TESTS

FOOTAGE	TUBE	CORR.
136.0	-64°	57°30'

INITIAL DIP -66°

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES				
			FROM	TO	WIDTH	Au oz/ton	
0.0- 13.0	CASING						
13.0-110.9	GREYWACKE Black, grey, fine-grained, good bedding and foliation, very massive unit, no small erratic quartz stringers.	83372	110.0	112.0	2.0	.010	
110.9-112.5	VEIN ZONE Small quartz stringers and veinlets in a graphitic shear. Ground is badly broken up; minor pyrite.	83373	112.0	115.0	3.0	Tr	
112.5-136.0	GREYWACKE Black, grey, fine-grained several erratic quartz stringers, good bedding and foliation, some graphitic zones. (113.2-113.5) Small white quartz veinlet. (114.2-114.4) Small white quartz veinlet. (121.0-122.0) Series of weak quartz stringers. (127.2-127.5) Small white quartz vein barren. (130.8-131.4) Quartz vein at 25° to cove axis, pyrite.	83374 83375 83376	120.5 126.4 130.0	122.5 128.4 132.5	2.0 2.0 2.5	Tr Tr Tr	
136.0	END OF HOLE						

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DIAMOND DRILL HOLE LOG

GORDON LAKE PROJECT

Hole No. M81-11

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LOCATION May Claim.....

SECTION

LATITUDE 945.3 N.....

DEPARTURE 1124.8 E.....

AZIMUTH 271.4°.....

ELEVATION Lake + 0.8'...

LENGTH 111.0'.....

PURPOSE test vein.....

STARTED April 23, 1981

COMPLETED April 24, 1981

DIP TESTS

FOOTAGE	TUBE	CORR.
111.0	-42°	34°30'

INITIAL DIP. -45°.....

FOOTAGE	DESCRIPTION	SAMPLE NUMBER	CORE SAMPLES			
			FROM	TO	WIDTH	Au oz/ton
0.0- 17.0	CASING					
17.0- 90.3	GREYWACKE Black, grey, fine-grained, good bedding and foliation, very massive and homogenous, no erratic quartz.	83377	89.5	92.5	3.0	.010
90.3- 92.0	VEIN ZONE Extremely weak zone, small erratic stringers, graphitic shears, broken ground, no mineralization.					
92.0-111.0	GREYWACKE Black, grey, fine-grained some erratic quartz stringers.					
111.0	END OF HOLE					

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