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125 EAST 4TH AVE., VANCOUVER 10, B.C. TELEPHONE: 876-4111

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Bridessville/
Kuhn
82E/3E

Client: Chemical Testing
Vancouver Laboratory
Project: Quartz Drill Core

FILE NO. C.3-C.1-67-3627
Preliminary
DATE November 23, 1967

ORDER TO: G.E. Crippen & Associates Ltd.,
1605 Hamilton Street
North Vancouver, B.C.

REPORT NO. 1020
ORDER NO.

ATTENTION: Mr. E.H. Talbot

We have tested six samples of Quartz Drill Cores submitted by you on November 24, 1967 and report as hereunder:

SAMPLE IDENTIFICATION

- The samples were labelled
- No. 1 - 0' - 17'
 - No. 2 - 17' - 18'
 - No. 3 - 32' - 49'
 - No. 4 - 49' - 63'
 - No. 5 - 64' - 78'
 - No. 6 - 27'

TEST PROCEDURE

The samples were placed in a muffle furnace at 1800° F for 20 minutes, removed from the muffle and cooled to room temperature. Observations were made during the heating period and subsequent cooling period for any disintegration or swelling of the samples.

OBSERVATIONS

There was no discernable swelling of the samples during heating. The samples did not flake during the heating or cooling periods and retained their shape throughout the test.

After cooling it was noted that the samples were easily broken along fracture lines that appeared to be present in the sample before heating.

grains

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W. Wong
W. Wong,
SENIOR CHEMIST

1/JP

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125 EAST 4TH AVE., VANCOUVER 10, B.C.

TELEPHONE 876-4111

SUBJECT: Chemical Analysis
 LOCATION: Vancouver Laboratory
 OBJECT: Quartz Samples
 REPORTED TO: G.E. Crippen & Associates Co. Ltd.,
 1605 Hamilton Street
 North Vancouver, B.C.

FILE NO: C.3-G.2-67-38127
 DATE: December 5, 1967
 REPORT NO.
 ORDER NO.

ATTENTION: Mr. Oakay

We have tested eight samples of Quartz sampled by us on November 24, 1967 at the client's premises in North Vancouver and report as hereunder:

RESULTS

A. Sampling

The samples to be analyzed were selected from the box of drill core to be as representative of the core as possible. Several chips were chosen at intervals along the core, and where the footage contained drill sludge, this sludge was included in the sample.

B. Identification of Samples

- 1. 0' - 17' 17" - Core and Sludge
- 2. 0' - 17' 17" - Core only
- 3. 17' - 20' 3" - Core and Sludge
- 4. 20' - 32' 12" - Core only
- 5. 32' - 49' 17" - Core only
- 6. 49' - 63' 14" - Core only
- 7. 63' - 64' 1" - Core only
- 8. 64' - 79' 15" - Core only

C. RESULTS

- 1. See the attached table for the analysis of Samples No. 1, 2, 3, 4, 5, 6 and 8.
- 2. See the attached semi-quantitative spectrographic analysis of Sample No. 7.

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W. Wong
W. Wong,
SENIOR CHEMIST

ANALYSIS OF QUARTZ SAMPLES

C.3-G.2-67-38127
December 5, 1967

	<i>0-17</i> Sample 1	<i>0-17</i> Sample 2	<i>17-20</i> Sample 3	<i>22-23</i> Sample 4	<i>32-41</i> Sample 5	<i>41-63</i> Sample 6	<i>64-77</i> Sample 8
Silicon Dioxide (SiO ₂)	98.45 %	97.29 %	99.18 %	99.15 %	99.04 %	99.12 %	87.98 %
Iron Oxide (Fe ₂ O ₃)	0.20 %	0.02 %	0.10 %	0.08 %	0.07 %	0.07 %	0.10 %
Aluminum Oxide (Al ₂ O ₃)	0.75 %	0.70 %	0.28 %	0.27 %	0.32 %	0.38 %	0.65 %
Calcium Oxide (CaO)	0.25 %	0.55 %	0.05 %	0.05 %	0.05 %	0.06 %	1.85 %
Magnesium Oxide (MgO)	0.13 %	0.30 %	0.06 %	0.07 %	0.06 %	0.07 %	1.65 %
Titanium Oxide (TiO ₂)	0.01 %	0.003%	0.01 %	0.01 %	0.007%	0.005%	0.01 %
Loss On Ignition	0.21 %	1.17 %	0.43 %	0.39 %	0.42 %	0.28 %	7.49 %



PHONE: TEL. 2-8121
CABLE ADDRESS: "ELDRICO"

To:

G.E. Crippen & Associates
1605 Hazelton Street
North Vancouver, B.C.

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES

COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.

125 EAST 4TH AVE. VANCOUVER 10, CANADA

FILE NO. C.3-C.2-67-33127

DATE December 5, 1967

We Herby Certify that the following are the results of semi quantitative spectrographic analyses made on _____ samples submitted.

SAMPLE IDENTIFICATION	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Ga	Au	Fe
Sample 7 C3-64	5.0	ND	ND	0.03	Trace	ND	ND	ND	5.0	0.003	0.001	0.001	ND	ND	2.0
SAMPLE IDENTIFICATION	Pb	Mg	Mn	Mo	Nb	Ni	Si	Ag	Sr	Ta	Sn	Ti	W	V	Zn
	ND	2.0	0.2	ND	ND	ND	Matrix	Trace	0.01	ND	ND	0.6	ND	0.001	0.01

All results are expressed as percent by weight

ND - NOT DETECTED

Matrix - Major Constituent

Trace - Detected but below normal spectrographic range

Note: Rejects retained one week.
Pulps retained three months.

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125 EAST 4TH AVE., VANCOUVER 10, B.C. TELEPHONE: 876-4111

Chemical Analysis

FILE NO C.3-C.1-67-38329

Vancouver Laboratory

DATE December 15, 1967

Quartz Samples

REPORT NO.

G.D. Crippen & Associates
1605 Hamilton Street
North Vancouver, B.C.

ORDER NO.

We have tested 18 samples of Quartz submitted by you on December 7, 1967 and report as hereunder:

RESULTS

The samples were two boxes of drill core representing 64 feet of quartz. The core was split in half at our laboratory and half was assayed as per the attached table.

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W. Wong
W. Wong,
SENIOR CHEMIST

1/3p

December 13, 1957

ANALYSIS OF QUARTZ - DIAMOND DRILL HOLE NO. 2

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9
FOOTAGE -	<u>0' - 4'</u>	<u>4' - 9'</u>	<u>9' - 11'</u>	<u>11' - 14'</u>	<u>14' - 20'</u>	<u>20' - 22'</u>	<u>22' - 25'</u>	<u>25' - 27'</u>	<u>27' - 29'</u>
Silicon Dioxide (SiO ₂)	99.46 %	99.66 %	99.42 %	99.52 %	99.75 %	99.57 %	99.62 %	99.67 %	99.65 %
Iron Oxide (Fe ₂ O ₃)	0.06 %	0.02 %	0.03 %	0.04 %	0.03 %	0.015%	0.04 %	0.025%	0.06 %
Aluminum Oxide (Al ₂ O ₃)	0.07 %	0.02 %	0.10 %	0.09 %	0.01 %	0.07 %	0.09 %	0.02 %	0.08 %
Calcium Oxide (CaO)	0.07 %	0.02 %	0.04 %	0.03 %	0.03 %	0.04 %	0.02 %	0.005%	0.01 %
Magnesium Oxide (MgO)	0.02 %	0.01 %	0.02 %	0.01 %	0.01 %	0.02 %	0.02 %	0.01 %	0.02 %
Titanium Oxide (TiO ₂)	0.003%	0.004%	0.003%	0.002%	0.001%	0.001%	0.003%	0.003%	0.003%
Loss on Ignition	0.15 %	0.08 %	0.16 %	0.18 %	0.06 %	0.16 %	0.16 %	0.10 %	0.17 %
	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15	Sample 16	Sample 17	Sample 18
FOOTAGE -	<u>29' - 34'</u>	<u>34' - 35'</u>	<u>35' - 40'</u>	<u>40' - 46'</u>	<u>46' - 52'</u>	<u>52' - 53'</u>	<u>53' - 55'</u>	<u>55' - 58'</u>	<u>58' - 64'</u>
Silicon Dioxide (SiO ₂)	99.69 %	99.65 %	99.73 %	99.69 %	99.61 %	99.67 %	99.65 %	99.73 %	99.67 %
Iron Oxide (Fe ₂ O ₃)	0.01 %	0.015%	0.015%	0.03 %	0.04 %	0.03 %	0.015%	0.02 %	0.01 %
Aluminum Oxide (Al ₂ O ₃)	0.06 %	0.11 %	0.06 %	0.08 %	0.12 %	0.08 %	0.08 %	0.07 %	0.07 %
Calcium Oxide (CaO)	0.01 %	0.01 %	0.01 %	0.01 %	0.05 %	0.04 %	0.04 %	0.03 %	0.03 %
Magnesium Oxide (MgO)	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
Titanium Oxide (TiO ₂)	0.002%	0.002%	0.003%	0.003%	0.002%	0.002%	0.002%	0.001%	0.001%
Loss on Ignition	0.18 %	0.15 %	0.13 %	0.12 %	0.10 %	0.10 %	0.09 %	0.06 %	0.03 %

STANDARD

CITANIA

SiO₂ 99.65%Fe₂O₃ 0.015%

MgO 0.030

CaO 0.010

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125 EAST 4TH AVE., VANCOUVER 10, B.C. TELEPHONE: 876-4111

FOR: Chemical Testing
Vancouver Laboratory
BY: Quartz Core
REPORTED TO: G.E. Crippen & Associates Ltd.
1605 Hamilton
North Vancouver, B.C.

Quartz 17/2

FILE NO C.3-C.17-30-25
(Addition)
DATE December 29, 1951
REPORT NO.
ORDER NO.

17/2

We have tested the sample of drill core submitted by you and report as hereunder:

TEST PROCEDURE

The sample was heated to 850°C for 30 minutes and allowed to cool.

RESULTS

Heating tests performed on the drill core caused cracking or flaking of the core.

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W. Wong
W. Wong
Senior Chemist

/bh

1120



PHONE 876 4111

CABLE ADDRESS: ELDRIDGE

FILE A.3-C.1-66-26215

DATE July 21, 1966

To: Mr. F. L. Coteau,
#201 - 540 Burrard Street,
Vancouver, B. C.

Certificate of Assay
COAST ELDRIDGE
ENGINEERS & CHEMISTS LTD.
125 EAST 4TH AVE. VANCOUVER 10, CANADA

We Herby Certify that the following are the results of assays made by us upon submitted

Quartz samples

MARKED	GOLD		SILVER	SILICON DIOXIDE	LOSS ON IGNITION	IRON OXIDE	ALUMINUM OXIDE	CALCIUM OXIDE	MAGNESIUM OXIDE
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	(SiO ₂) PER CENT	PER CENT	(Fe ₂ O ₃) PER CENT	(Al ₂ O ₃) PER CENT	(CaO) PER CENT	PER CENT (MgO)
23976 - <i>sterp</i> #1				99.25	0.21	0.10	0.30	0.05	0.02
23977 - ✓ #2				98.82	0.47	0.13	0.40	0.05	0.01
23978 - ✓ #3				98.42	0.66	0.17	0.56	0.06	0.01
23979 - ✓ #4				99.17	0.21	0.04	0.42	0.02	0.01
<i>West side</i> 23980 } Center 23981 } <i>East side</i> 23982 }				99.05	0.19	0.05	0.54	0.02	0.01
				99.20	0.31	0.07	0.36	0.01	0.01
				99.15	0.44	0.05	0.32	0.02	0.01

Gold calculated at \$.....per ounce

Note: Returns retained one week.
Pulp retained one month.
Pulp and rejects may be stored for one year subject to arrangement.
Dues and charges for gold and silver assays.

H. F. C.