

# MAR 19980020: FT. SMITH & FT. FITZGERALD

Received date: Oct 07, 1998

Public release date: Oct 08, 1999

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OCT 07 1998

# GRQ Mining Inc.

# 8 Lake Placid Rise S.E.  
Calgary , Alberta T2J 5B5

Telephone ( 403 ) 278 - 2577  
Fax ( 403 ) 278 - 2638

05 October 1998

Alberta Energy  
Petroleum Plaza – North Tower  
9945 – 108 Street  
Edmonton, Alberta  
T5K 2G6

Attn : Hazel Henson  
Agreements Administrator  
Mineral Agreements

7 OCT 98 10 36  
FORESTRY  
& WILDLIFE  
12

Dear Hazel;

Re: Metallic and Industrial Minerals Permit Numbers:

- 9392060003
- 9392060004
- 9392070001
- 9392070004

Further to your letter dated September 15, 1998 I am enclosing two ( 2 ) Geological Reports dated September 1998 which describes a diamond drill program in the Dog River Linear which is covered in the above claims.

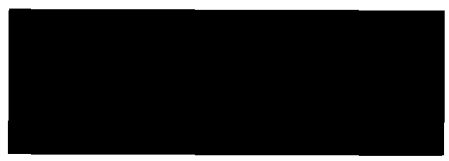
An expedition expense claim for \$66,528.38 is included in the report. This amount is to be applied as the work commitment to all of the above claims.

Please call me should you have any questions.

Thank you for your assistance.

Yours truly,

GQR Mining Inc.



Ed Friesen, P. Eng  
President

**Geological Report**

**On**

**Dog River**

**Mineral Permit Number**

**9392060003**

**9392060004**

**9392070001**

**9392070004**

**Fort Smith and Fort Fitzgerald Area**

**Alberta**

**Province of Alberta**

**For**

**GRQ Mining Inc.**

**Prepared by:**

**Ed J. Friesen BSc. EE, P.Eng.**

**Debra A. Bracken BSc. Geol.**

**September 1998**

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## 1.0 Introduction

On the basis of previous expeditions to the property, one in the spring of 1994 and the other in October 1996, an expedition was organized in November 1996 with the specific objective of obtaining a rock sample from the Dog River Linear " fault " through the use of a diamond drill. This was necessary because there is no outcrop of this formation anywhere along its length.

The drill site chosen, approximately 500 meters east of J Lake ( Lat.  $59^{\circ} 50' 0''$  , Long.  $111^{\circ} 16' 0''$  ), was considered the most readily accessible as the overburden is the least amount of any other location on the fault and proximity to J Lake was necessary for access ( float plane in the summer, ski plane in winter ). See map Figure 1 .

Preparation for the expedition started in October 1996 and on Saturday, November 16, 1996, personnel left Calgary for the field.

Field operations were from Saturday November 16 to Saturday November 30, 1996.



Aircraft Landing Strip on J Lake



Helicopter used to transport diamond drill



Camp at J Lake

## 2.0 Work Done

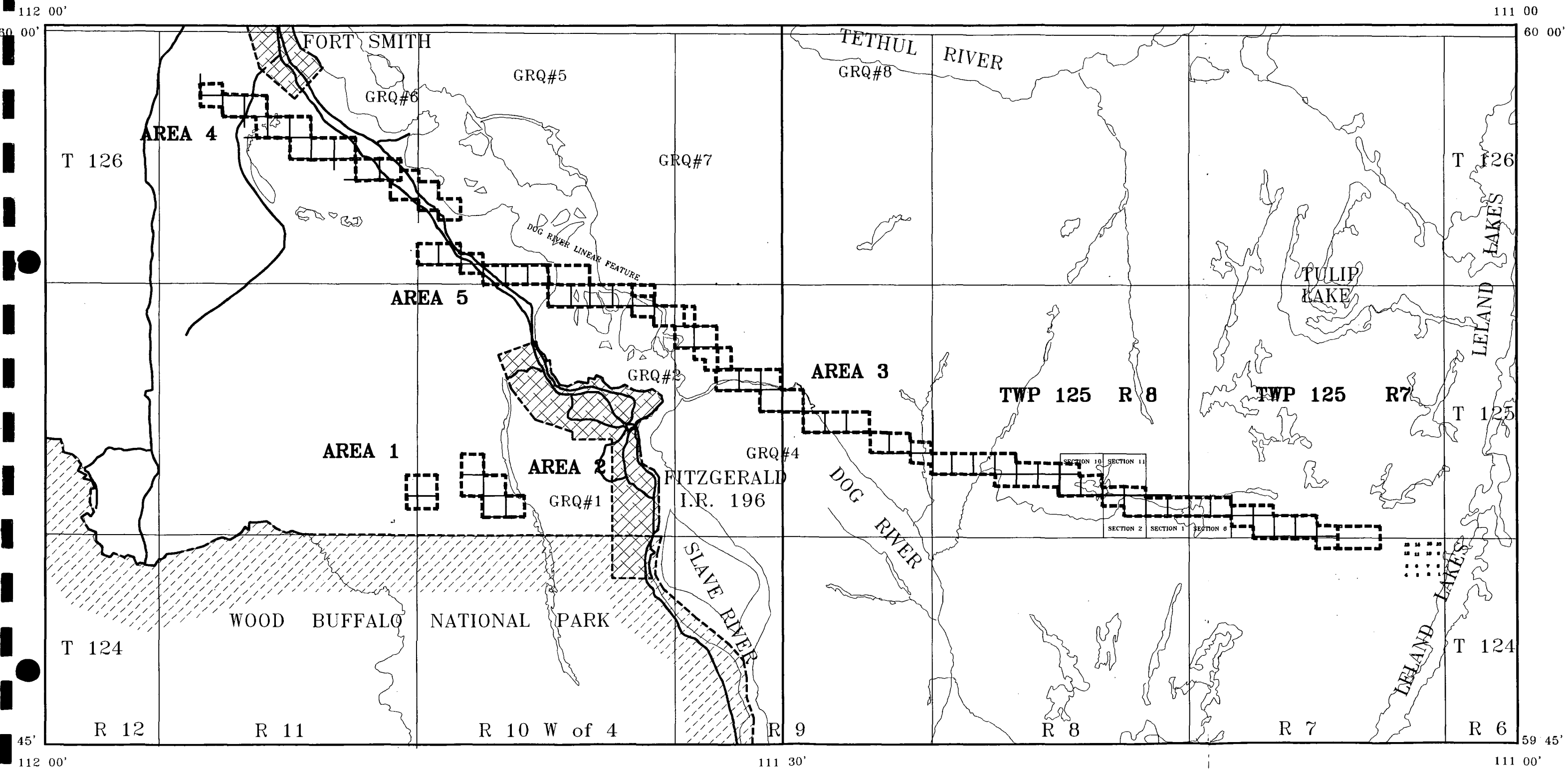
The main accomplishment on this expedition was the diamond drilling into the Dog River fault to recover material for identification and analysis.

Rock core was recovered from a diamond drill hole approximately 310 feet in length. Details of the drill hole are :

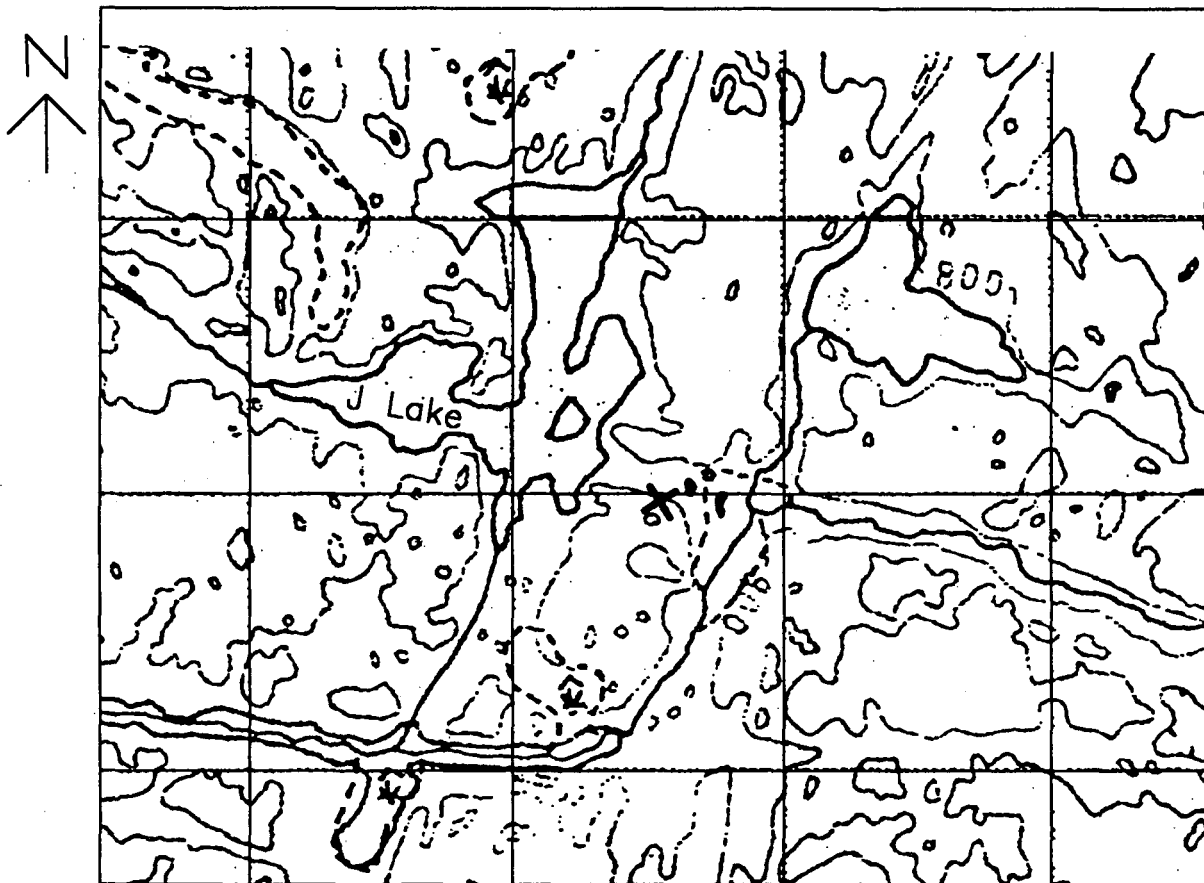
- The hole was drilled on a 45° angle
- Total drill hole length was approximately 310 feet
- The fault was first encountered at the 261 foot core length

The drill hole location is shown on the following map Figure 1.

GRQ Mining Inc  
FITZGERALD EXPLORATION PROJECT - NORTHEAST ALBERTA







X Indicates Diamond Drill Site

Location :

59° 50' 0" Latitude

111° 16' 0" Longitude

Figure 1



Diamond Drill Setup



Drilling in progress



Checking rock core samples

### **3.0 Rock Core Analysis**

Samples were taken from the drill core and submitted for analysis as follows

- Wall rock and fault rock      - Au by fire assay  
   - multi-element ICP analysis
- fault rock                              - petrographic analysis

Copies of the lab reports are included in Appendix A

The fault rock is classified as a “ weakly altered basalt “.

Fault rock was first encountered at the 261 foot core length and 49 feet of rock core was drilled prior to termination of drilling activity.

At the termination of drilling activity, the opposite side of the fault had not been reached. Since the rock core was drilled at an angle of 45° for a distance of 49 feet, this equates to a horizontal distance of 34.6 feet, the minimum width of the fault at this location.

The rock core log is included with this report in Appendix

### **4.0 Conclusions and Recommendations**

On an expedition in the spring of 1995, soil samples were collected across the Dog River Linear at numerous locations. One sample, collected approximately 3 km west of J Lake, provided a nickel “ kick “ which was reported in our report dated October 23, 1996 as being most unusual in such a granitic terrain.

The next step will be a detailed soil sampling and lake bottom sampling program across the Dog River Linear on the east side of the Slave River where the overburden is the least.

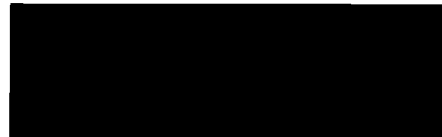
**5.0 Statement of Qualifications – Ed Friesen BSc. EE, P.Eng.**

I, Edward John Friesen, undersigned, certify that:

- 1) I am a graduate of the University of Manitoba, Winnipeg, Manitoba.
- 2) I hold the degree of BSc. Electrical Engineering
- 3) I am registered as a Professional Engineer in the Province of Alberta
- 4) My formal education is Electrical Engineering. My knowledge of geology is through self-study. I regularly consult with graduate geologists on technical geological issues.
- 5) The data presented in this report consists of
  - description of the diamond drilling program - by Ed Friesen BSc. EE, P.Eng.
  - lab analysis of samples submitted - by CanTech Laboratories Inc
  - petrographic analysis - by Lakefield Research Ltd.
  - by Vancouver Petrographics
  - drill core log - by Debra A. Bracken Bsc. Geol.
- 6) I am President, Director and a major shareholder, of GRQ Mining Inc.

Ed J. Friesen BSc EE, P.Eng.

████████████████████  
Calgary, Alberta T2J 5B5  
September 26, 1998



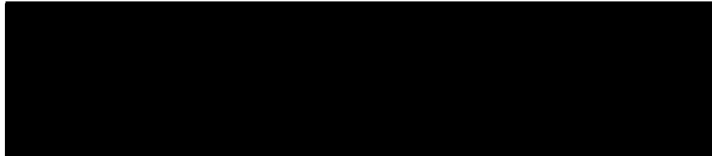
**6.0 Statement of Qualifications – Debra Bracken. BSc. Geol.**

I, Debra Ann Bracken, undersigned, certify that:

- 1) I am a graduate of the Brock University, St. Catherines, Ontario.
- 2) I hold the degree of BSc. Geology
- 3) I am a practicing geologist, presently employed in the oil and gas industry in Alberta. I have previously worked during my undergraduate years in mineral exploration.
- 4) I am a Director and a shareholder of GRQ Mining Inc.

Debra A. Bracken BSc. Geol.

  
Calgary, Alberta T2T 3P2  
September 26, 1998



**Appendix A**

- 1.0 Lab Reports**
- 2.0 Sample Description**
- 3.0 Drill Core Log**

### Sample Description

Sample No.	Rock Core interval	Description
1	251 foot	pink granite
2	256 foot	pink granite
3	261 foot	basalt
4	261 foot	pink granite
5	263 foot	pink granite + basalt
6	266 foot	basalt
7	269 foot	basalt
8	277 foot	basalt
9	281 foot	basalt
10	288 foot	basalt
11	301 foot	basalt
12	306 foot	basalt
13	310 foot	basalt
Float	piece of basalt found on local moraine near J Lake similar to " fault rock "	
14	310 foot	basalt – submitted to Vancouver Petrographics
15	309 foot	basalt – submitted to Lakefield Research





CanTech Laboratories Inc.

4200B - 10 Street N E  
Calgary, Alberta  
Canada T2E 6K3  
Tel (403) 250-1901  
Fax (403) 250-8265

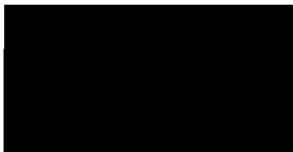
**Ed Friesen and Associates**  
#8 Lake Placid Rise S.E.  
Calgary, Alberta  
T2J 5B5

Attention: Ed Friesen  
**Certificate of Analysis**

Work Order: 9887-96  
Date: January 17, 1997

Sample No.	Au by Fire Assay ppb	Pt ppb
1	10	<20
2	19	<20
3	15	<20
4	8	<20
5	10	<20
6	14	<20
7	13	<20
8	15	<20
9	11	<20
10	14	<20
11	15	<20
12	14	<20
13	10	<20
FLOAT	6	<20
16	17	20
17	8	<20
18	13	<20
19	10	<20

CanTech Laboratories, Inc.



Signed:

Richard Wagner  
Laboratory Manager

J LAKE '96



**Ed Friesen & Associates**

#8 Lake Placid Rise S.E.

Calgary, Alberta

T2J 5B5

Attention: Ed Friesen  
**Certificate of Analysis**

Work Order: 9887-96  
Date: February 10, 1997

Name	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	V	W	Zn
Sample	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
1	<2	9.18	16	<10	1379	2.9	<6	0.53	<1	<4	240	10	0.93	2.71	56	0.36	104	6	2.85	18	798	65	<4	219	0.12	17	<4	32
2	<2	8.99	29	11	1278	2.9	<6	0.51	<1	<4	231	14	1.19	2.04	57	0.45	120	6	3.63	20	866	39	<4	202	0.11	16	<4	34
3	<2	8.10	9	48	965	3.5	<6	4.50	1	33	127	61	7.37	0.15	52	3.65	994	<2	3.18	89	342	29	<4	216	1.13	270	<4	142
4	<2	9.02	25	<10	1301	3.1	<6	0.52	<1	<4	231	16	1.05	2.23	59	0.49	100	6	3.15	22	826	38	<4	232	0.11	21	<4	35
5	<2	10.50	15	25	1421	4.3	<6	1.10	<1	11	199	21	3.27	0.77	96	1.71	347	3	5.13	40	763	24	<4	216	0.35	66	<4	60
6	<2	8.33	<4	53	991	4.7	<6	3.69	1.1	42	88	173	8.15	0.16	49	3.90	1017	<2	2.65	96	328	35	<4	208	1.39	319	<4	146
7	<2	7.69	<4	56	740	2.4	<6	5.72	1.1	46	121	279	9.25	0.10	42	3.15	1749	<2	2.30	103	254	36	<4	162	1.25	288	<4	145
8	<2	7.73	17	60	1128	2.4	<6	4.52	1.1	45	124	287	9.64	0.12	48	3.64	1506	<2	2.40	94	335	50	<4	190	1.28	293	<4	144
9	<2	7.66	<4	59	1336	2.3	<6	6.13	1.8	47	120	293	9.58	0.31	54	2.87	1689	<2	2.19	94	229	47	<4	172	1.23	281	<4	215
10	<2	7.58	<4	58	1253	2.3	<6	6.05	1.8	46	125	277	9.31	0.27	54	2.93	1685	<2	2.16	92	238	50	<4	167	1.21	280	<4	216
11	<2	7.70	<4	56	1239	2.4	<6	5.92	1.4	40	116	278	8.68	0.11	53	3.06	1843	<2	2.43	90	272	117	<4	168	1.26	287	<4	179
12	<2	7.59	<4	57	1140	2.3	<6	6.20	1.7	45	110	281	9.20	0.21	50	2.88	1634	<2	2.20	89	151	76	<4	164	1.22	278	<4	204
13	<2	7.49	20	58	758	2.3	<6	6.06	1.3	57	108	282	9.53	0.16	38	2.86	1610	<2	2.00	92	330	33	<4	158	1.25	292	<4	167
FLOAT	<2	9.07	13	45	1860	1.7	<6	7.44	<1	38	208	35	5.58	0.51	61	4.81	1177	<2	1.91	41	278	33	<4	444	0.26	105	<4	101
16	1.6	9.46	16	7	204	2.5	<6	0.88	1.4	17	169	25	7.66	1.82	193	1.46	399	7	2.82	72	568	54	<4	180	0.81	136	<4	226
17	2.7	8.73	13	<10	271	1.8	<6	0.45	2.4	24	211	21	9.94	2.45	204	2.49	443	2	1.85	57	430	23	<4	99	1.02	231	<4	166
18	<2	7.75	18	<10	214	2.5	<6	0.58	1.3	14	184	25	9.46	2.10	179	1.64	561	4	2.14	32	351	46	<4	93	0.94	171	<4	205
19	3.0	10.02	16	<10	164	7.9	<6	0.39	1.5	16	163	18	7.50	2.97	184	1.85	325	<2	1.49	45	527	43	<4	66	0.81	182	<4	170

CanTech Laboratories, Inc.

Signed:



Richard Wagner, B.Sc.  
Laboratory Manager

J LAKE '96



# Vancouver Petrographics Ltd.

8080 GLOVER ROAD, LANGLEY, B.C. V3A 4P9  
PHONE (604) 888-1323 • FAX (604) 888-3642

J LAKE '96

Report # 970006 for:

C. Douglas Read,  
CanTech Laboratories Inc.,  
4200B 10 Street N.E.,  
Calgary, Alberta, T2E 6K3


January, 1997

Sample: 14

Summary:

Sample 14 Alkali Gabbro; Chlorite Vein, Mineral X Veinlet

The sample is a medium to fine grained alkali gabbro dominated by clinopyroxene and plagioclase, with much less abundant interstitial patches of graphic K-feldspar-quartz and patches of magnetite/ilmenite, and minor overgrowths of hornblende on clinopyroxene, biotite flakes, interstitial patches of tremolite/actinolite, and acicular apatite grains. Plagioclase is zoned from cores of labradorite to rims of andesine. Alteration of plagioclase ranges from weak to strong to cryptocrystalline chlorite/clay and much less abundant sericite. Clinopyroxene is altered strongly to completely to pseudomorphic Mineral X and chlorite. Biotite is replaced by a pale green mica (intermediate between biotite and muscovite). Magnetite is replaced strongly by hematite. A vein is of chlorite and a slightly contorted veinlet is of Mineral X.



John G. Payne, Ph.D.,  
Tel: (604)-986-2928  
Fax: (604)-983-3318  
email: johnpayn@istar.ca

## Sample 14

## Alkali Gabbro; Chlorite Vein, Mineral X Veinlet

The sample is a medium to fine grained alkali gabbro dominated by clinopyroxene and plagioclase, with much less abundant interstitial patches of graphic K-feldspar-quartz and patches of magnetite/ilmenite, and minor overgrowths of hornblende on clinopyroxene, biotite flakes, interstitial patches of tremolite/actinolite, and acicular apatite grains. Plagioclase is zoned from cores of labradorite to rims of andesine. Alteration of plagioclase ranges from weak to strong to cryptocrystalline chlorite/clay and much less abundant sericite. Clinopyroxene is altered strongly to completely to pseudomorphic Mineral X and chlorite. Biotite is replaced by a pale green mica (intermediate between biotite and muscovite). Magnetite is replaced strongly by hematite. A vein is of chlorite and a slightly contorted veinlet is of Mineral X.

pyroxene	45-50%
plagioclase	40-45
graphic K-feldspar-quartz	5- 7
hornblende	3- 4
ilmenite/hematite	3- 4
tremolite/actinolite	1
apatite	0.3
quartz	0.2
pyrite	minor
chalcopyrite	trace
<b>vein, veinlet</b>	
chlorite	1- 2
Mineral X	0.2

Plagioclase forms anhedral to subhedral, prismatic grains averaging 0.5-1 mm in size, and a few up to 1.5 mm long. Many are strongly compositionally zoned from cores of labradorite to rims of andesine (based on general texture). In much of the rock, plagioclase is altered only slightly to disseminated flakes of sericite and scattered patches of chlorite and of actinolite. Locally it is altered strongly to disseminated, irregular, commonly interlocking patches of chlorite/clay.

Clinopyroxene forms anhedral to subhedral prismatic grains averaging 0.5-1 mm in size, with a few up to 1.7 mm long. A few grains have patchy cores of fresh material. Elsewhere, alteration is complete to pseudomorphs of Mineral X, a pale to light, yellowish brown mineral with parallel extinction, moderate birefringence, and very low hardness (possibly the colour is due in part to limonite), and/or pseudomorphic pale to light green chlorite.

Hornblende forms patches averaging 0.2-0.5 mm in size and a few up to 0.7 mm long, mainly as overgrowths on clinopyroxene grains. Pleochroism is from light to medium slightly brownish green. These grains are fresh. A few interstitial patches up to 0.6 mm across are of a dense matte of actinolite grains averaging 0.05-0.07 mm in size; these may be secondary after hornblende.

Interstitial patches averaging 0.3-0.5 mm in size are of extremely fine graphic intergrowths of K-feldspar and quartz. Associated with a few of these are patches up to 0.3 mm in size of quartz grains averaging 0.1-0.2 mm in size.

Biotite forms scattered flakes averaging 0.5-0.7 mm in size, and a few patches up to 1.5 mm in size of a few to several flakes. Alteration is to a pale to light green mica which probably is intermediate in composition between biotite and muscovite.

(continued)

Hematite/ilmenite forms patches averaging 0.5-1 mm in size with a few up to 1.5 mm across. They are of exsolution intergrowths dominated by hematite which contains moderately abundant platy grains of ilmenite aligned in two optical orientations in the hematite grains. The rock is weakly magnetic, suggesting that hematite was formed by replacement of primary magnetite, and that minor relic magnetite remains. Ilmenite plates are altered as in the ilmenite grains described below.

Ilmenite also forms disseminated anhedral to subhedral grains averaging 0.1-0.2 mm in size and a few up to 0.3 mm long. These patches commonly consist of two zones with different extinction positions. One phase appears to be a replacement of the other along grain borders and a few fractures. However, except for extinction position, optical properties of the two zones are identical.

Apatite forms acicular to elongate prismatic grains averaging 0.1-0.3 mm long, several from 0.4-0.7 mm long, and a few from 1-1.5 mm long; they are concentrated in sheaves and clusters in plagioclase and in graphic K-feldspar-quartz.

Pyrite forms disseminated anhedral, equant grains averaging 0.02-0.05 mm in size, a few of which form irregular patches in oxide intergrowths.

Chalcopyrite forms irregular grains averaging 0.01 mm in size and a few from 0.05-0.08 mm in size disseminated in silicates and locally intergrown with ilmenite.

A vein 0.4-0.8 mm wide is of extremely fine grained, pale yellowish green chlorite.

An irregular, slightly contorted veinlet 0.05-0.07 mm wide is of extremely fine grained Mineral X, with grains oriented perpendicular to walls of the veinlet. It cuts through the Mineral X pseudomorphs after clinopyroxene.

**LAKEFIELD RESEARCH LIMITED**

P.O. Box 4300, 185 Concession St., Lakefield, Ontario, K0L 2H0

Phone: 705-652-2038 FAX: 705-652-8441

E.J. Friesen & Associates Inc.  
 78 Lake Placid Rise S.E.  
 Calgary, Alberta, T2J 5B5 - Canada

Attn: E.J. (Ed) Friesen  
 Fax: (403) 278-7206

Lakefield, February 26, 1997

Date Rec. : January 31, 1997  
 LR. Ref. : JAN3804.R97  
 Reference : LR9700522  
 Project : \*Exploration(Rock Sam

**CERTIFICATE OF ANALYSIS**

Element	Rock Sample #1
SiO <sub>2</sub> [%]	49.3
Al <sub>2</sub> O <sub>3</sub> [%]	13.5
Fe <sub>2</sub> O <sub>3</sub> [%]	15.4
MgO [%]	5.65
CaO [%]	9.12
Na <sub>2</sub> O [%]	2.54
K <sub>2</sub> O [%]	0.58
TiO <sub>2</sub> [%]	1.96
P <sub>2</sub> O <sub>5</sub> [%]	0.18
MnO [%]	0.21
Cr <sub>2</sub> O <sub>3</sub> [%]	0.05
LOI [%]	0.97
SUM [%]	99.5
Ba [ppm]	54
Nb [ppm]	11
Rb [ppm]	25
Sr [ppm]	151
Y [ppm]	31
Zr [ppm]	140


  
 Roch Marion
**A MEMBER OF IAETL CANADA**

Accredited by the Standards Council of Canada and CABAL for specific registered tests.

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written approval.

LRL Project Jan3409

Lakefield Research Limited  
Mineralogy Department**Petrographic Report**

The sample consisted primarily of equigranular, interlocked feldspars and clinopyroxene in a interstitial hypocrySTALLINE matrix. Minor amounts of amphibole were observed as a possible uralization of pyroxene. Minor amounts of apatite were present as acicular needles in feldspars. Simplectic intergrowths of ilmenite and clinopyroxene were also present. Ilmenite had a mottled appearance and was partially altered to rutile. Trace amounts of disseminated chalcopyrite and rare amounts of disseminated pyrite were observed. (Table 1).

**Table 1: Summary of Mineralogy****PS#6444;TS#93**

Grain	Volume % *	Typical grain size	Typical Associations
Feldspar	70%	<1.0 mm	interlocked grains with pyroxene and amphibole
Clinopyroxene	15%	<1.0 mm	interlocked grains with feldspar and ilmenite
Amphibole	2-3%	<1.0 mm	interlocked grains with feldspar and pyroxene
Apatite	<0.5%	<50µm	intergrowth in feldspars
Ilmenite	10%	<200µm	intergrown with pyroxene
Chalcopyrite	2-3%	<75µm	disseminated
Pyrite	<0.5%	<125µm	disseminated

\* Volume % was visually estimated.

This sample is classified as a weakly altered basalt.

## Mineralogical Examination of Sample 1 from E. J. Friesen and Associates

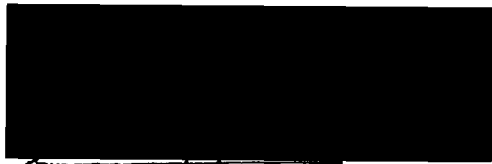
### Summary

One drill core sample was submitted for mineralogical examination. The objective of the study was to identify the petrographic nature and mineral constituents of the rock sample.

Two areas were selected from the sample and a 1" polished section, and a standard thin section were prepared. The sample was then examined with an ore microscope at 50x to 200x magnification. A portion of the sample was prepared and submitted for whole rock analysis.

Based on chemical composition (see attached Certificate of Analysis) and mineralogical observations the rock submitted has the composition of a basalt.\*

**LAKEFIELD RESEARCH LIMITED**



Geoff Lane  
Mineralogist

\*The chemical composition of the sample matches the standard composition of a basalt (Dietrich and Skinner, (1979) Rocks and Rock Minerals pg.101)

February 26, 1997

Geoff Lane  
Mineralogist





185 Concession Street, Postal Bag 4300  
Lakefield, Ontario, Canada, K0L 2H0  
Tel: (705) 652-2100 Fax: (705) 652-6365

## FAX - Mineralogy Group

To: Ed Friesen  
From: Geoff Lane  
Date: February 26/97

Company: E.J. Friesen and Associates  
Fax. No.: 403-278-2638

This transmission consists of 4 pages (including this one).


---

### RE: Petrographic Report

Please find attached the petrographic report for the sample submitted.

If you have any questions please call me.

Regards  
Lakefield Research Limited



Geoff Lane  
Mineralogist

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**Appendix B**  
**Expedition Expenses**

## Fort Smith - Dog River Linear

## Expedition Expenses

Nov-96

		Days	Position	Rate \$/ Day	Cost
Personnel Involved	Ed Friesen	14	project manager	[REDACTED]	[REDACTED]
	John Martinuk	5	worker		
	Rudy Friesen	5	worker		
	Gary Cerantola	6	worker		
	Andrew Chipping	4	worker		
	Doug Van Veen	4	worker		
	Tiger Yawnghwe	7	geologist		
Preparation	Ed Friesen	20	project manager	[REDACTED]	[REDACTED]
	Rudy Friesen	8	worker		
	Gary Cerantola	3	worker		
	Andrew Chipping	3	worker		
	Doug Van Veen	3	worker		
	Marlene Cerantola	3	worker		
	Karen Ahola	10	worker		
Stella Taborski	3	worker			
Equipment	1/2 Ton truck	4000 km @ \$0.40 / km			\$1,600.00
	12 ft trailer				\$200.00
	tents	3 @ 10 days @ \$20.00 / day			\$600.00
	stoves				\$200.00
	sleeping bags + cots	8 @ 10 days @ \$10 / day			\$800.00
	generator 350 VA				\$200.00
	generator 3.5 Kva				\$600.00
	generator 2.2 kVA				\$400.00
	satellite phone	rental + air time			\$1,200.00
	ski plane				\$6,714.24
	skidoo + sled	14 days @ \$110 / day			\$1,540.00
	diamond drill + driller				\$7,300.00
	helicopter				\$4,748.03
	truck rental				\$104.14
other	food				\$1,685.87
	gas + propane				\$537.77
	diesel fuel				\$257.57
	hotel				\$1,585.11
	sample analysis - lab	Cantech			\$658.50
	sample analysis - lab				\$500.00
	core boxes				\$250.00
	airline tickets				\$1,690.14
	restaurant				\$457.01
	exploration permit and licence				\$100.00
Office	Ed Friesen	5	project manager	[REDACTED]	[REDACTED]
	Stella Taborski	5	secretary		
office equipment	computers				\$1,500.00
	plotters				
	photocopy				\$100.00
	telephone				\$200.00
				Total	\$66,528.38

# Debra Bracken opus group

WELL NAME: J LAKE NO. 1 NOV 1996

FIELD:

WELL IDENTIFIER:

CO-ORDINATES: Surface: \_\_\_\_\_ Hz: \_\_\_\_\_ Btm Hole: \_\_\_\_\_

ELEVATION: Grd.: \_\_\_\_\_ K.B.: \_\_\_\_\_

LICENCE NUMBER: \_\_\_\_\_ A.F.E.: \_\_\_\_\_

Well History:

Contractor:

Operator:

Spud:

F.T.D.:

Rig Release:

Status:

Geologist:

Drg. Sup.:

Casing:

Surf:

Set @

Int:

Set @

Production:

Set @

Logs Run:

Type:

Interval:

Company:

Cores:

D.S.T.:

Formation Tops:

MD

Prognosis

TVD

Sample Depth

MD

TVD

Comments:

### ROCK TYPE

	SANDSTONE		CHELT		LIMESTONE		ANHYDRITE
	SHALE		GLACIAL TILL		DOLOMITIC LIMESTONE		IGNEOUS BASIC
	SILTSTONE		COAL		DOLOMITE		IGNEOUS ACID
	BRECCIA		BENTONITE		LIMEY DOLOMITE		METAMORPHIC
	CONGLOMERATE		SALT		GYPSUM		

### ACCESSORIES

	SANDY		FELDSPAR		CARBONACEOUS FLAKES		PLANT REMAINS
	SANDSTONE STRINGERS		BRECCIA FRAGMENT		BITUMEN		GYPSIFEROUS
	SILTY		SILICEOUS		CALCAREOUS		LIMESTONE STRINGERS
	SILTSTONE STRINGERS		CHELT LIGHT		CHELT DARK		FERRUGINOUS
	ARGILLITE GRAINS		ARGILLACEOUS		DOLOMITIC		SALT CLASTS
	SHALE LAMINAE		STYOLITES		DOLOMITICS STRINGERS		PYRITE
	GLAUCONITE		BENTONITE		ANHYDRITIC		KAOLIN
	MINERAL CRYSTALS		FISH REMAINS		ANHYDRITIC STRINGERS		

### ROCK BUILDERS

	CRINOID		BRYOZOA		SCAPHOPOD		SKELETAL
	PELECYPOD		BRACHIOPOD		BELEMNITE		OOTOID
	CORAL		OSTRACOD		ECHINOID		NON-DESCRIPT
	AMPHIPORA		AMMONITE		BIOCLASTIC, FRAGMENTAL		LAMINATED
	GASTROPOD		CEPHALOPOD		OOLITES		INTRACLASTS
	FORAMINIFERA		STROMATOPOROID		PISOLITE		

### MISCELLANEOUS

	NO SAMPLE		CANNOT INTERPRET		QUESTIONABLE		
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### OIL SHOWS

	QUESTIONABLE		TRACE		SPOTTY		STAINED		DEAD
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0 PENETRATION RATE  
(min./m.)

60 MEASURED  
DEPTH

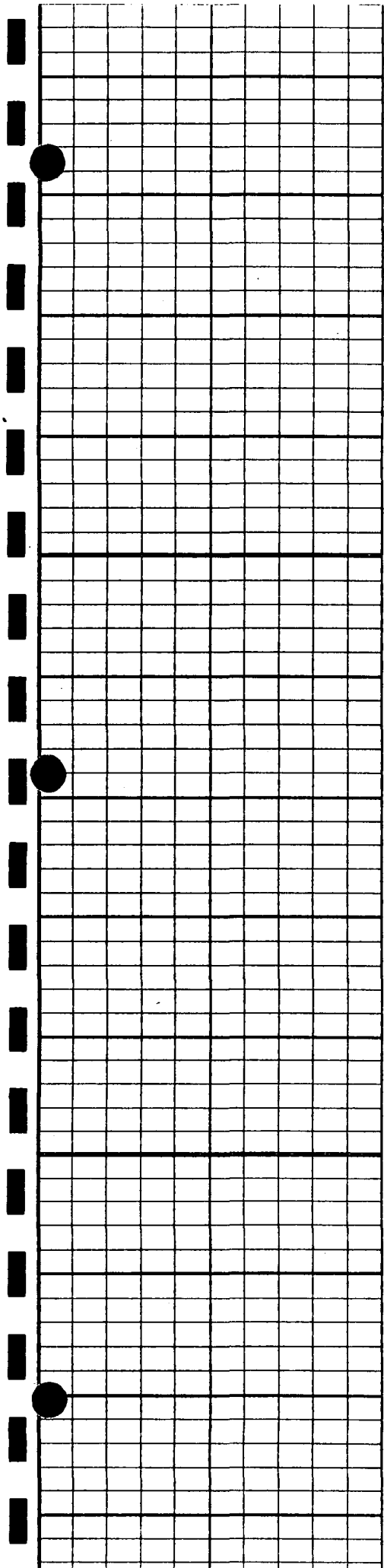
OIL SHOWS

POROSITY

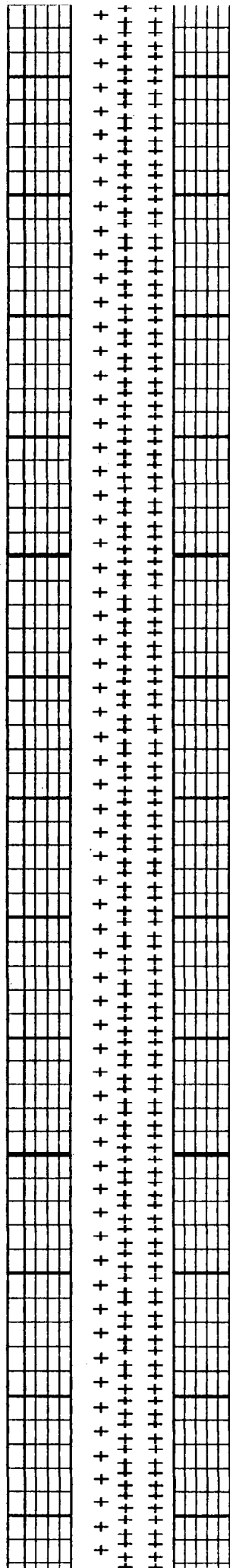
INTERPRETIVE  
LITHOLOGY

GRAIN /  
CRYSTAL SIZE

INTERVAL DESCRIPTION

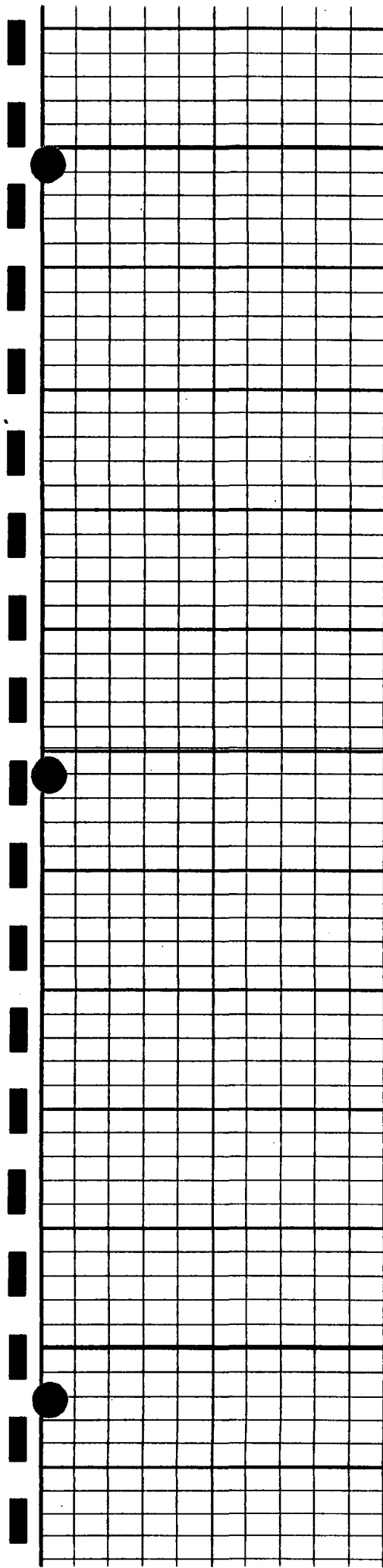


25



50

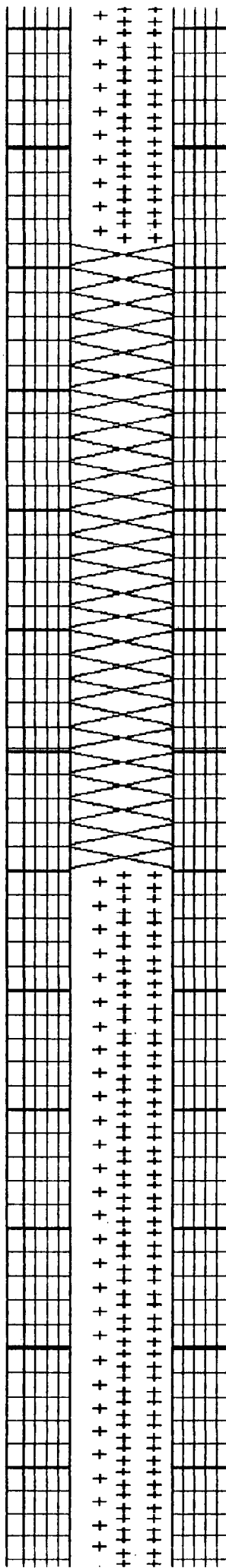
general lt colour areas of lt gy, predom m gr sz, areas of f to m gr sz, quartz, orthoclase, microcline, plagioclase, biotite, hornblende, anhedral to euhedral crystal shapes.



75

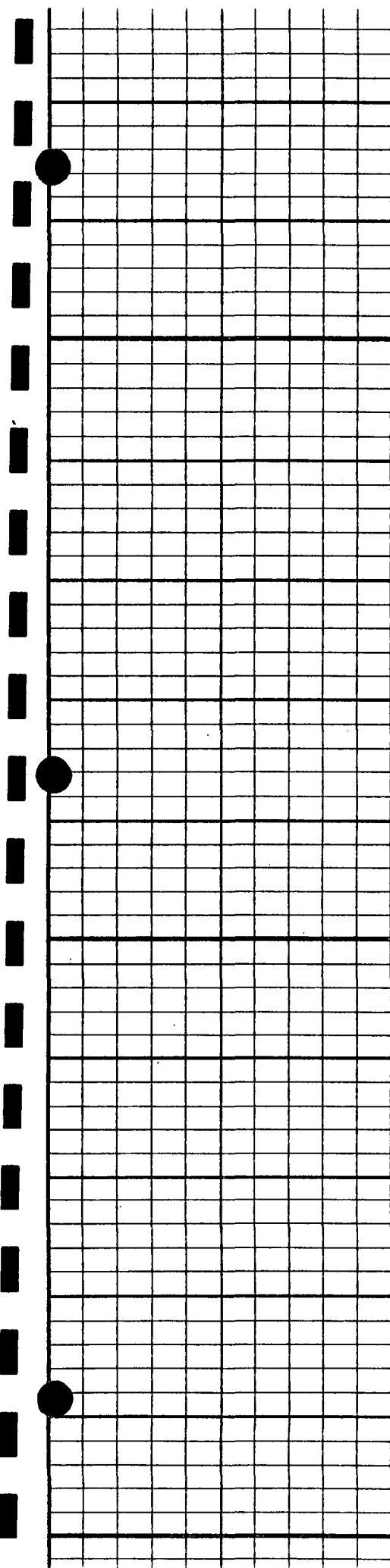
100

125



LOST CORE 79 ft to 105 ft.

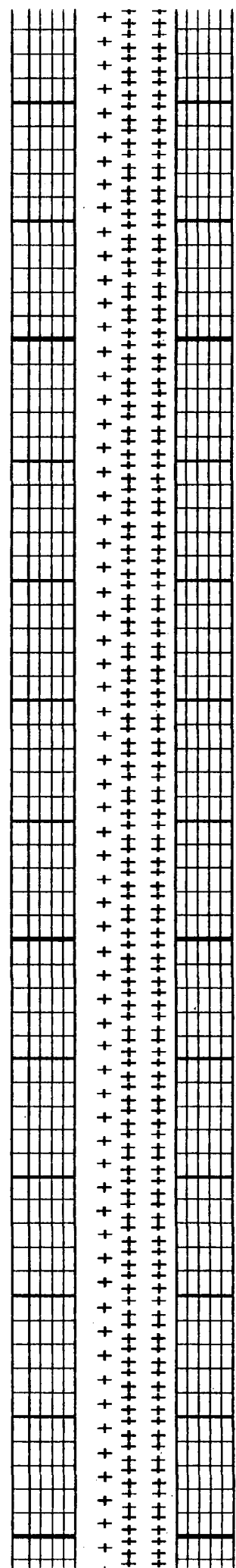
IG:GRANITE: gy-pnk, gy-wh, wh-gy-pnk, scat lt gy to m gy-pnk banding, m gr sz, areas of f to m gr sz, tr c, quartz, k-feldspars, orthoclase and microcline, biotite hornblende, anhedral to euhedral crystal shapes, genrally uniform in appearl



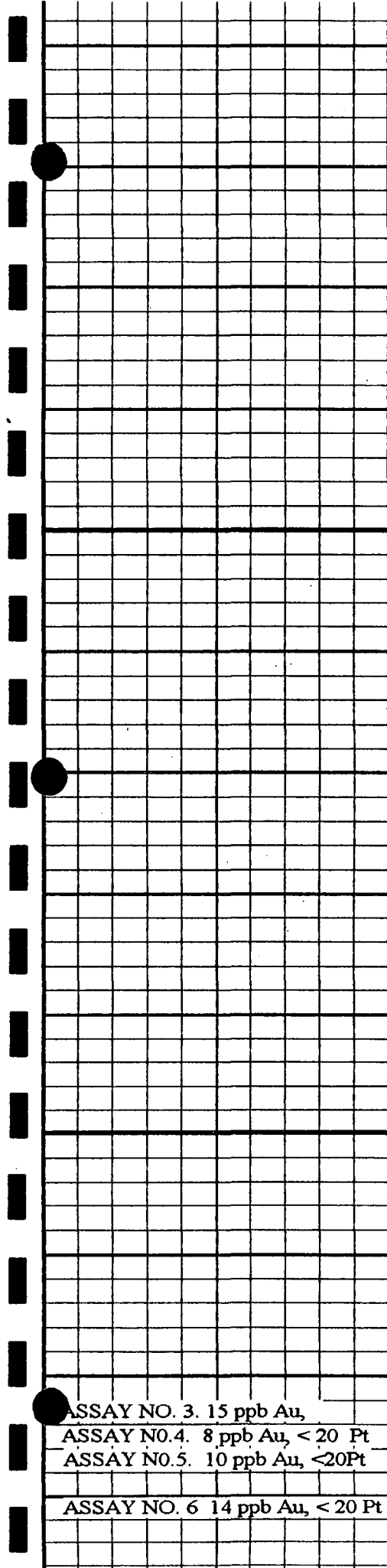
150

175

200

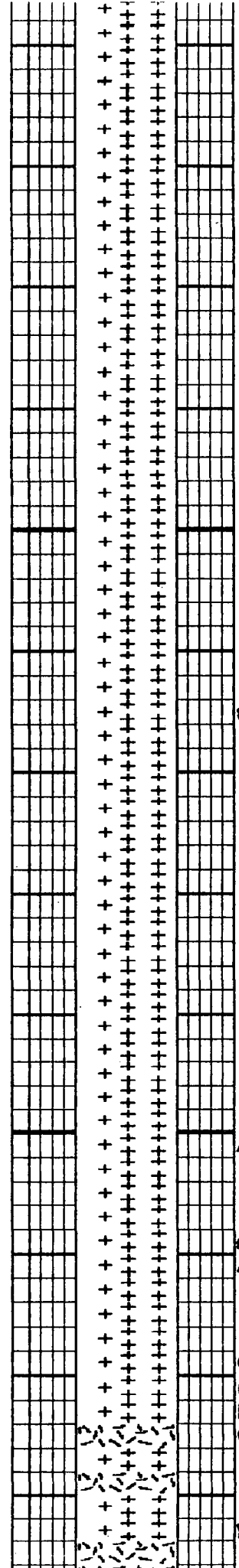






225

250



ASSAY NO. 1  
10 ppb Au, <20 ppb Pt

ASSAY NO. 2  
19 ppb Au, <20 ppb Pt

GRANITE: pnk, c gr sz, sl altered,  
uniform in appear, sharp contact with  
basalt. (chill zone?).

GRANITE WITH BASALT  
Basalt: m to dk gy, f gr sz, clinopyroxene  
plagioclase, mnr quartz, mnr hornblede

BASALT: m to m dk gy, overall dk color  
f gr sz, clinopyroxene plagioclase tr k.

ASSAY NO. 3. 15 ppb Au,  
ASSAY NO.4. 8 ppb Au, < 20 Pt  
ASSAY NO.5. 10 ppb Au, <20Pt  
ASSAY NO. 6 14 ppb Au, < 20 Pt

13 ppb Au, < 20 ppb Pt

hedral to euhedral crystal shapes.

275

ASSAY NO. 8  
15 ppb Au, < 20 ppb Pt

ASSAY NO. 9  
11 ppb Au, < 20 ppb Pt

ASSAY NO. 10  
14 ppb Au, < 20 ppb Pt

300

ASSAY NO. 11  
15 ppb Au, < 20 ppb Pt

ASSAY NO. 12  
14 ppb Au, < 20 ppb Pt

SAMPLE TO VANCOUVER  
PETROGRAPHICS AND  
LAKEFIELD RESEARCH

ASSAY NO. 13  
10 ppb Au, < 20 ppb Pt

325