

DU PONT OF CANADA EXPLORATION LIMITED

GEOLOGICAL AND DRILLING REPORT ON THE OYAMA 2 & 3 CLAIMS

VERNON MINING DIVISION

NTS: 82-L-4E

50°09' Lat., 119°08' Long.
04 36

Owner of Claim: Du Pont of Canada Exploration Limited

Operator: Du Pont of Canada Exploration Limited

MINERAL RESOURCES BRANCH ASSESSMENT REPORT 6727 NO. _____
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G. A. Harron

Author: G. A. Harron

Date Submitted: May 3, 1978

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Figure 1 - Index Map of Oyama 2 & 3 claims

Dwg. U.77-3 - Geology, Oyama 2 & 3 claims in pocket

Table 1 - Analytical Results, Water & Silt Samples

Appendix I - Percussion Drill Log

Appendix II - Method of Analysis

Appendix III - Percussion Drilling Cost Statement

Appendix IV - Assay Result

I INTRODUCTION

(a) Location

The Oyama 2 and 3 claims are located on a plateau west of Bald Range Creek and east of Lean-to Creek. Elevations on the claims range from 1219 m to 1676 m a.s.l. The locations of the legal posts for both claims are shown in Figure 1.

(b) Access

Forestry roads provide access to the claims. At a distance of 10.4 km on the Bear Lake road, measured from the Westside road, the Bald Range road is intersected. The Bald Range road trends north from this point and traverses the entire common boundary of the two claims commencing 7.1 km, measured from the Bear Lake road.

(c) Claim Definition

The Oyama 2 claim comprises 20 units and was recorded on May 18, 1977. The Oyama 3 claim consisting of 18 units adjoins the Oyama 2 claim on the west and was recorded on May 18, 1977. The current owner and operator of the two claims is Du Pont of Canada Exploration Limited. The claims were staked as a potential uranium prospect.

(d) Summary of Work Performed

A grid consisting of 2.95 km of base line and 14.35 km of cross lines was established to provide control for mapping purposes. Lines were established at 100 m intervals, with stations at 50 m intervals. The two claims have an area of approximately 950 hectares, of which 150 hectares were mapped geologically at a scale of 1:2,500 and the results were plotted on Dwg. U.77-3. One percussion drill hole, to a depth of 91.4 m was drilled at the location shown in Dwg. U.77-3. A trench measuring 1.0 m by 24.0 m to a depth of 0.3 m was completed at the location shown on Dwg. U.77-3.

II GEOLOGY

The geological mapping was undertaken to ascertain the distribution of rock lithologies present along the unconformity between the Eocene volcanic and sedimentary rocks and the underlying Cretaceous granitic rocks.

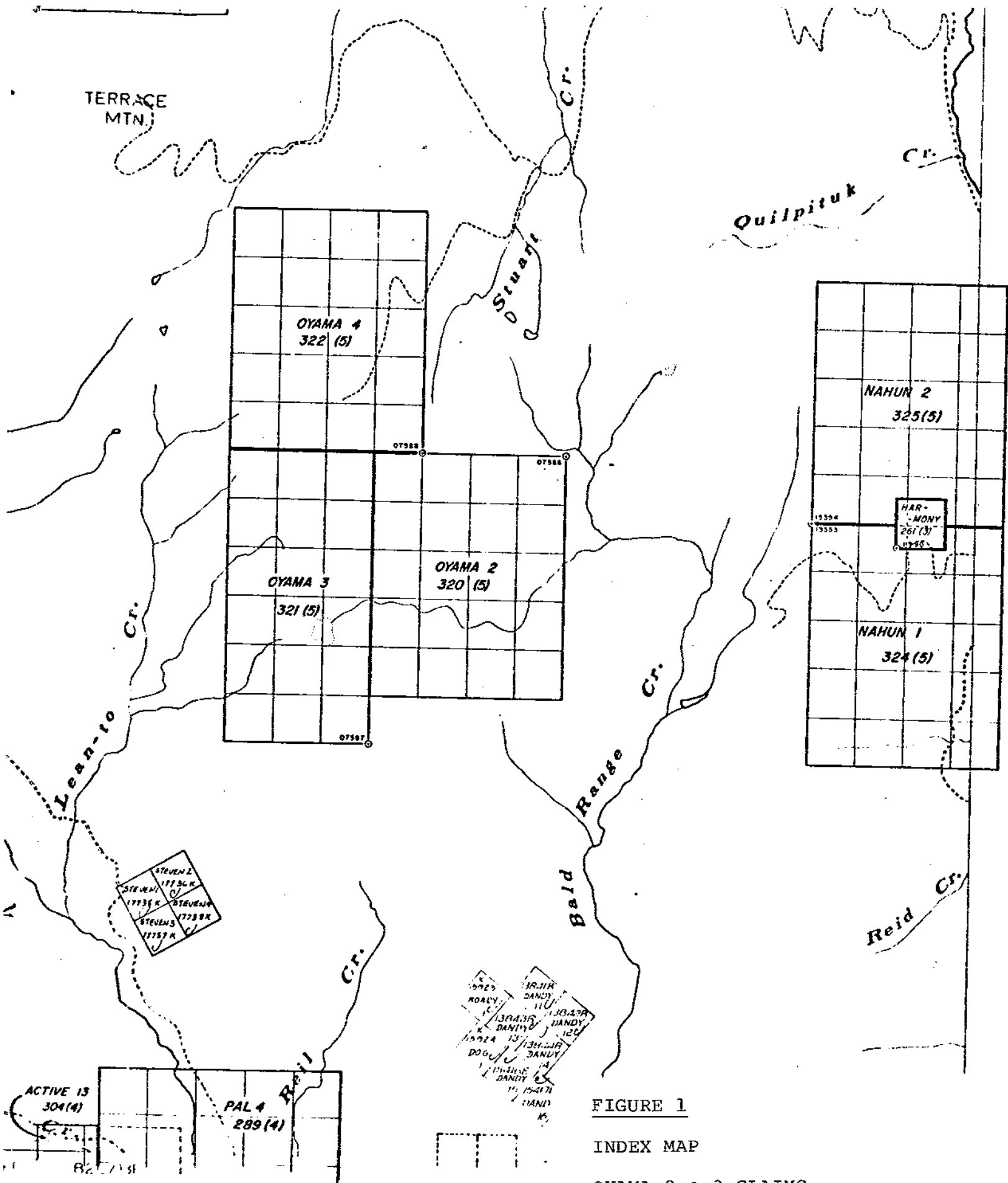


FIGURE 1

INDEX MAP

OYAMA 2 & 3 CLAIMS

(a) Lithologyi) Eocene Volcanic Rocks

Dark grey to black porphyritic andesite containing 5-10% plagioclase phenocrysts is the dominant rock type. The phenocrysts are creamy white in colour and average 4 mm in length. The andesite flows are commonly 10 m thick and exhibit columnar jointing and vesicular flow tops. At two locations on the grid (1764S, 35E and 2450S, 20W) vertical andesite dykes 1.0 m wide were noted intruding the underlying sediments.

Observations indicate that the andesite flows have a general N-S trend and dip 20° to 30° west.

ii) Eocene Sedimentary Rocks

The sediments occur stratigraphically below the volcanic rocks, however, their mutual contact was not observed.

The indurated sediments are buff coloured and are suggestive of a fluvial depositional regime. Rapid facies changes involving conglomerate, sandstone and argillite units occurring as discontinuous lenses is common. The clasts in the conglomerate and sandstone units are granitic in composition and the matrix is argillaceous. The largest clast noted was 5 cm in diameter and had the composition of a quartz monzonite, while the sand size clasts are monomineralic quartz, feldspar or muscovite. The argillites are composed of clay minerals and muscovite flakes.

The sediments are estimated to be a maximum of 30 m thick and are inferred to have a strike length of 3 km. The trend of the sediments is N-S and dip 20°-30° west.

iii) Cretaceous Quartz Monzonite, Granodiorite

This rock unit occurs unconformably below the Eocene sedimentary rocks. The rock is composed of quartz monzonite which grades into granodiorite. Within the quartz monzonite both porphyritic and non-porphyritic phases occur.

In several outcrops the crystalline rocks were observed to be capped by regolith. The regolith is a pale grey colour, friable and up to 1.3 m thick. The contact between the regolith and the overlying Eocene sediments was not observed, however, it is assumed to be gradational.

(b) Structure

Geological mapping did not reveal the presence of any faults or folds within the Eocene volcanic and sedimentary rocks.

The attitude of the volcanic and sedimentary rocks and the fluvial depositional features in the sediments suggests a north-south trending topographic depression developed on the Cretaceous basement.

(c) Mineralization

In conjunction with the geological mapping a gamma ray spectrometer was utilized to detect the occurrence of any radioactive minerals present. The Eocene sediments are very slightly enriched with uranium mineralization. One 0.5 m chip sample from an outcrop located on the grid at 1590S, 40W assayed 0.017% U_3O_8 (Appendix IV). This outcrop is the most radioactive occurrence within the mapped area. The radioactive minerals were not identified.

(d) Drilling

One percussion drill hole was completed to a depth of 91.4 m at grid location 756S, 165W and is plotted on Dwg. U.77-3. The log of rock chips recovered from the hole is included as Appendix I. No radioactive mineralization was recorded in the rock chips recovered.

(e) Conclusions

The geological mapping indicated that the Cretaceous quartz monzonite-granodiorite is overlain by about 30 m of Eocene fluvial sediments, which are in turn overlain by Eocene andesitic flows. Minor amounts of uranium were noted in the sediments.

III GEOCHEMISTRY

A total of 6 water and 6 silt samples were collected from the drainage system in the grid area. The location of the samples and the results are listed in Table I and

plotted on Dwg. U.77-3. The method of analysis, and the analytical laboratory completing the analyses is shown in Appendix II.

The analytical results indicate no significant enrichment of uranium in the area sampled:

TABLE I

Analytical results, water and silt samples.

<u>Grid location</u>	<u>U water ppb</u>	<u>U silt ppm</u>
210S, 195E	0.5	2.5
1415S, 42E	0.2	2.5
1750S, 30E	0.3	4.0
2400S, 20E	1.1	2.0
2527S, 85W	0.4	4.5
2745S, B.L.	1.0	4.5

IV COST STATEMENT

(a) Wages

Geologist, July 6-13, Oct 7; 9 days @ \$125.20	\$ 1,126.80
Assistant, July 6-13; 8 days @ \$58.94/day	471.52
Assistant, Oct 7; 1 day @ \$48.94/day	48.94

(b) Food and Accommodation

Geologist, July 6-13, Aug 25, 27, 28, Sept 14, Oct 7; 13 days @ \$36/day	468.00
Assistant, July 6-13, Oct 7; 9 days @ \$36/day	324.00

(c) Transportation

i. Vancouver-Kelowna and return, July 5, Sept 15; 846 km @ \$0.11/km	93.06
ii. In support of assessment work, July 6-13, Aug 25, 27, 28, Sept 14, Oct 7; 13 days @ \$25/day + \$81.85 gas	406.85

(d) Geological Mapping

Geologist, Aug 25, 27, 28, Sept 14; 4 days @ \$125.20/day	500.80
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(e) Analysis

Geochemical samples;

6 water samples @ \$4.00 each	\$	24.00
6 silt samples @ \$4.15 each		24.90
Assay, 1 @ \$12.00 each		12.00

(f) Drilling

91.4 m - see Appendix III		1,616.00
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(g) Report Preparation

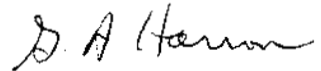
Drafting, Sept 29, 30; 2 days @ \$86.48/day		172.96
Typing, May 2, 3, 1978; \$46.59/day		93.18

TOTAL		<u>\$5,383.01</u>
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V QUALIFICATIONS

I, Gerald A. Harron, do hereby certify that:

1. I am a geologist residing at 2810 Sechelt Drive, North Vancouver, British Columbia and employed by Du Pont of Canada Exploration Limited.
2. I am a graduate of the University of Western Ontario with a M.Sc. degree in geology.
3. I am a registered Professional Engineer in the Province of Ontario.
4. I have practised my profession in geology continuously for the past 9 years in various provincial jurisdictions in Canada.
5. Between July 5 and October 7, 1977, I directed a field programme on the Oyama 2 and 3 claims on behalf of Du Pont of Canada Exploration Limited.



G. A. Harron
May 3, 1978

APPENDIX I

Percussion Drill Cuttings Log

Hole No. P-1

Grid location 756S, 165W

Overburden Depth: 0

Inclination: vertical

<u>Depth (m)</u>	<u>Rock chips</u>
0-19.8	Porphyritic andesite
19.8-22.3	Pale green tuff
22.3-35.7	Porphyritic andesite
35.7-38.1	Pale green tuff
38.1-48.2	Porphyritic andesite
48.2-48.8	Pale green tuff
48.8-55.5	Porphyritic andesite
55.5-57.0	Pale green tuff
57.0-76.2	Porphyritic andesite
76.2-80.2	Pale green tuff
80.2-91.4	Porphyritic andesite
end of hole	

Note: No radioactivity detected in the cuttings.

G. A. Harron
Oct. 7, 1977

JUL 22 1977

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project Date of report July 21/77.
 File No. 4322 Date samples received July 18/77.
 Samples submitted by: Mr. Harron
 Company: DuPont of Canada Expl.
 Report on: 6 water, 6 soils Geochem samples
 Assay samples

Copies sent to:

1. DuPont of Canada, Vancouver, B.C.
2.
3.

Samples: Sieved to mesh -80 soil Ground to mesh

Prepared samples stored discarded waters-stored
 rejects stored discarded

Methods of analysis: Uranium-Fusion-Fluorometric.

Remarks:

APPENDIX III - Percussion Drill Cost Statement

Al Miller Percussion Drilling Ltd.
 Box 182 Kamloops B.C. V2C-5K6
 Phone. 573-5230

Statement for Percussion Drilling for
 Dupont of Canada. at Kelowna B.C.

Hole # 1 - 300 ft @ \$4.00 per ft.

= \$ 1200.00

\$ 216.00

\$ 200.00

\$ 100.00

\$ 1716.00

Low-bed drill.
 small water truck + hauling water.
 small water truck to #2 site.
 Total Billing.

Thank you.
 Al Miller SM

D.A. Harmon - D.O.X.

DATE	Oct 10/77
CHARGE	322 - of 100
APPROVED	D.A. Harmon
APPROVED	

322 - of 100

PAID
D.O.X.
DISBURSEMENT
ACCOUNT
CK. No. 02627

OCT 17 1977

AL MILLER
PERCUSSION DRILLING LTD.

Box 182

Kamloops B.C.

DAILY SHIFT REPORT

Job Dupont Date Oct 7 1977

Hole No. P.77-1 Overburden 0
Casing 10 Footage From 0 to 300'
Total Depth Of Hole 300'

Hole No. _____ Overburden _____
Casing _____ Footage From _____ to _____
Total Depth Of Hole _____

Remarks _____

PAID
D.O.X.
DISBURSEMENT
ACCOUNT
02627
OCT 17 1977

Driller A. Miller
Helper Don Williams
Engineer J.A. Harron

SEP 28 1977



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648
AREA CODE: 604
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO: Dupont of Canada Exploration Ltd.,
1550 Alberni Rm 102
Vancouver, B.C.

CERTIFICATE NO. 33021
INVOICE NO. 22000
RECEIVED Sept. 15/77
ANALYSED Sept. 26/77

ATTN:

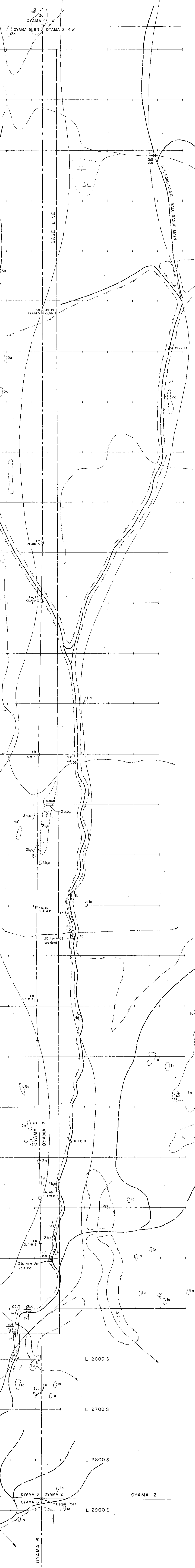
SAMPLE NO. :	%	
1534	U_3O_8 0.017	15955 U.Line
Sample location: 1590S, 40W Sample description: coarse grained sandstone, hematite staining, 0.5 m chip sample.		
APPENDIX IV Assay result		



MEMBER
CANADIAN TESTING
ASSOCIATION

Ken Amoretti
REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA

L 00 S
L 100 S
L 200 S
L 300 S
L 400 S
L 500 S
L 600 S
L 700 S
L 800 S
L 900 S
L 1000 S
L 1100 S
L 1200 S
L 1300 S
L 1400 S
L 1500 S
L 1600 S
L 1700 S
L 1800 S
L 1900 S
L 2000 S
L 2100 S
L 2200 S
L 2300 S
L 2400 S
L 2500 S
L 2600 S
L 2700 S
L 2800 S
L 2900 S



LEGEND

- EOCENE ?**
VOLCANIC ROCKS
3 a) PORPHYRITIC ANDESITE
b) ANDESITE DYKES
- SEDIMENTARY ROCKS
2 a) ARGILLITE
b) SANDSTONE
c) CONGLOMERATE
- CRETACEOUS**
GRANITIC ROCKS
1 a) QUARTZ MONZONITE GRANODIORITE
b) REGOLITH

GEOLOGICAL SYMBOLS

- OUTCROP
- CONTACT ASSUMED
- ATTITUDE OF BEDDING
- ATTITUDE OF FRACTURE; VERT. INCL.
- ATTITUDE OF FLOW TOP
- TRENCH
- SWAMP
- ROAD
- EDGE OF FOREST
- CREEK
- CLAIM LINE
- SURVEY BASE LINE
- SURVEY GRID LINE
- PERCUSSION DRILL HOLE

SYMBOLS

- WATER (PPB)
- STREAM SEDIMENT (PPM)
- CLAIM POST
- MILE POST (C.Z. ROADS)
- TRENCH
- SWAMP
- ROAD
- EDGE OF FOREST
- CREEK
- CLAIM LINE
- SURVEY BASE LINE
- SURVEY GRID LINE
- PERCUSSION DRILL HOLE

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
6727
NO.

DUPONT EXPLORATION
CANADA

**URANIUM SEARCH
GEOLOGY
OYAMA 2 & 3 GRID
KELOWNA AREA, BRITISH COLUMBIA**

MAPPED BY: G.A.H. REVISION: N.T.S. No. 82 L. 4 E
DATE: 10 SEPT '77 No. 78
DRAWN BY: K.L.A. ACCT No. 352-02
DATE: 30 SEPT '77 ORG No. U.77-3

SCALE: 1:2,000
INCH - FEET

TO BEAR LAKE MAIN
AND WESTSIDE ROAD