CANADIAN OCCIDENTAL PETROLEUM LIMITED

MINERALS DIVISION

# GEOLOGY AND GEOCHEMISTRY
of the
# ENEAS CLAIM GROUP

Claim Sheet 82-E-12-W

Lat : 49° 40'N
Long: 119° 46'W

Claims:

ENEAS 1 : Units 1-15
ENEAS 2 : Units 1-15
ENEAS 3 : Units 1-12
ENEAS 4 : Units 1-18

Osoyoos Mining Division
British Columbia

by:

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Work Completed During the Period August 9-20, 1979.

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Plans Accompanying Report



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SUMMARY

The ENEAS Claims are underlain by mappable units of diorite, monzonite and quartz monzonite, each of which can be subdivided into biotite rich and biotite deficient components. These units likely represent phases of one intrusive event. The claims are cut by an older, post-intrusive, NS striking, steeply east-dipping normal fault and a younger, EW striking, steeply north-dipping right-hand, strike-slip fault which truncates or deflects the NS fault to the east. Joint sets parallel these fault directions and in the vicinity of the NS fault are filled with epidote and sometimes display hematized halos. A radioactive outcrop occurs within one such fracture zone.

A strong soil-scintillometer-rock anomaly is localized by the NS fault in Eneas Creek valley. The anomaly is restricted to biotite deficient varieties of monzonite and particularly, quartz monzonite where they are cut by the fault. Very low U/Th ratios indicate that the rocks underlying the ENEAS Claims are not in themselves, potentially favourable uranium sources without structural modification. Any mineralization is likely of an intergranitic vein type.

A weaker soil uranium anomaly in the SW corner of the claims is associated with an area of hematized, and possibly brecciated, biotite deficient monzonite and has the only rock sample with a high U/Th ratio.

Detailed prospecting over both of the anomalies, prior to diamond drilling, is recommended. Areas underlain by diorite have a low priority. Prospecting should aim at defining areas of epidote-hematite alteration within fractured monzonite and quartz monzonite as well as areas of anomalous radioactivity.

## I. INTRODUCTION

In August 1979 the ENEAS Claims were examined via a detailed mapping, soil and rock geochemistry, and radiometric survey by Canadian Oxy personnel. This report will provide background information, examine the results of previous work on the claims and their vicinity by Canadian Oxy and others, list and detail the results of the 1979 summer survey, compile these results, and present recommendations for further work.

## II. LOCATION AND ACCESS

The ENEAS Claims are located 11 km NW of the village of Summerland within the Osoyoos Mining District, B.C. The claims cover an area of 60 $km^2$ within NTS map sheet 82E/12W. The claims include portions of the Darke Creek valley to the west and Eneas Creek/Garnet Lake valley to the east.

Access to the north central portion of the claims is from the village of Summerland, taking Garnet Ave. which runs north through Eneas Creek valley to Garnet Lake. Numerous dirt tracks provide access east off Garnet Ave. to the north-

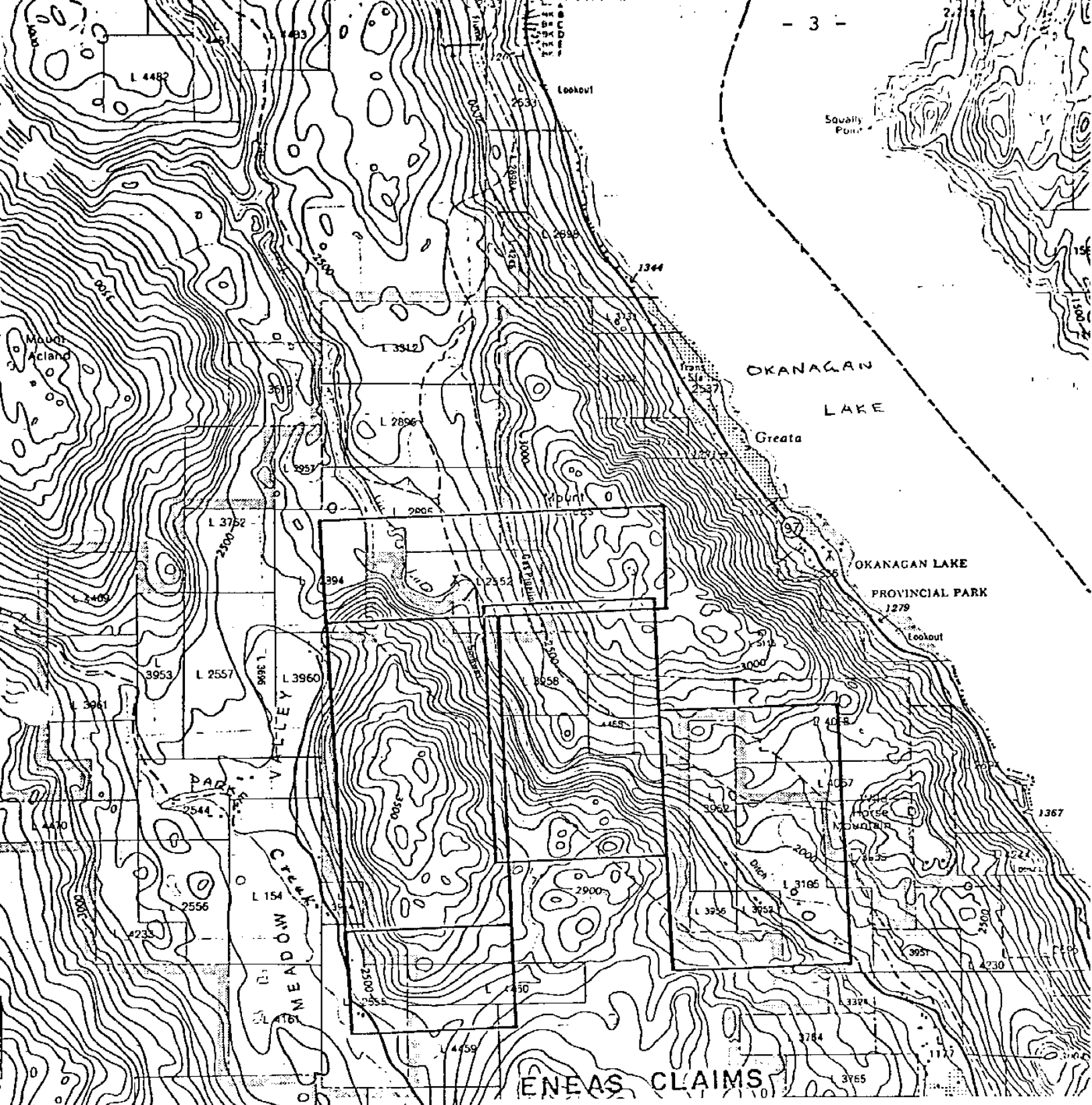



FIGURE 1

LOCATION AND ACCESS OF ENEAS CLAIMS

NTS 82E/12W

Scale 1: 50,000

east portion of the claims. Access to the western edge of the claims is via the Trout Creek logging road, turning north at Mile 0 onto the road to Fish Lake (Darke Lake).

## III. PHYSIOGRAPHY AND VEGETATION

Relief over the entire claims is 500 m (1650 ft.). The claims consists of rocky hills and flat plateaus separated by deeply cut, outcrop faced stream channels such as Eneas Creek valley, which transects the north central portion of the claims.

Much of Eneas Creek valley bottom is densely covered by thick conifer growth and alder brush adjacent to the streambed. Higher slopes are forested with mature conifer and little underbrush. Much of the upper hills and plateaus are open grassland. The area is quite arid with cactus growth prevalent in open areas.

## IV. PREVIOUS WORK

A total of 20 stream sediment samples were collected within areas 22, 39 and 40 of the Princeton/Nicky Project in 1973. Uranium values ranged from 2.5 to 96.8 ppm U with a background of 6.7 ppm U. These samples were collected primarily on Eneas and Darke Creeks.

The G.S.C. collected 5 stream sediment and water samples during the 1976 U.R.P. Survey. Values ranged from 3.7 to 38.8 ppm U in sediments and from 1.9 to 13.6 ppb U in waters.

A Canadian Oxy crew comprising 5 men, completed the majority of sampling in areas 22, 39 and 40 on June 4th and 5th, 1978

with follow-up by 2 men on June 23rd and 24th, 1978. 112 stream and lake sediment samples, 110 stream and lake water samples and six heavy mineral samples were collected within the area, as well as 12 rock chip samples during examination of the geology of localized portions of the area.

During the period June 25th to 29th, 1978, 66 units constituting the ENEAS Claims were staked to cover that portion of the originally anomalous areas 22, 39 and 40 (Princeton/Nicky Project) which remained open. Staking was done by Eastern Associates Ltd., Whitehorse, Y.T., for Canadian Oxy.

The claims were found to be underlain by Upper Jurassic Nelson granodiorite with local hematitic and chloritic alteration. The rocks contained up to 1.0 ppm U with a scintillometer response of 100-130 cps (Scintrex BGS-1SL). An Upper Eocene syenitic stock, outcrops to the north of the claims. Pegmatite dykes on the NW shore of Garnet Lake contained up to 7.0 ppm U.

Anomalous uranium values (up to 720 ppm) were found in lake and stream sediments, both in Darke Creek, to the SW of the claims, and in Garnet Lake.

Anomalous waters ( > 20 ppb U) were found in areas SW, S and N (Garnet Lake) of the claims. Eneas Creek contained greater than 1 ppb U over the entire claim group. Abrupt cutoffs of anomalous values for the waters in the southern area along an E-W line resulted in a postulated E-W structure which would traverse the southern portion of the ENEAS 4 claim block, and to which these values of U would possibly be related. High water

values in Garnet Lake were correlated with the syenitic stock and the pegmatites on the NW shore. A significant positive correlation was found between anomalous water and sediment U values and between U in water, specific conductivity, and $HCO_3$ content.

Heavy mineral samples contained up to 3.5 ppm U plus anomalous values for Au in Darke Creek. The source for these values was postulated to be Jurassic granites upstream.

The postulated E-W structure crossing the ENEAS 4 claim was the target for detailed soil, radiometric and prospecting surveys recommended for the 1979 summer program.

## V. WORK COMPLETED - 1979 SURVEY

### 5.1 Line Cutting

No lines were cut on the ENEAS Claims. A total of approximately 17,900 m (59,000 ft.) or 17.9 km (11.1 mi.) of line were picketed at 30 m (100 ft.) intervals by Futura Developments Registered, Whitehorse, Y.T. These lines constituted a NW base line, and tie lines as well as EW lines bounding the N and S edges of the grid, and followed previously blazed claim lines.

### 5.2 Geological Mapping

The ENEAS Claims were geologically mapped at a scale of 1" = 400 ft. during the period August 9th to 20th, 1979. Control was by pace and compass/flagged lines established during the accompanying soil/radiometric survey. A total of approximately 53,300 m (175,000 ft.) of line representing an area of

approximately 10.1 $km^2$ (4.0 $mi.^2$) was flagged and mapped.

The claims were mapped by E. Sacks, J. Houle and J. Hooper, all of Canadian Oxy. A total of 18 man days of geological mapping (plus rock geochemistry survey) were performed.

## 5.3 Geochemical Surveys

### 5.3.1 Soil Geochemistry

Soil samples were collected over the period August 9th to 20th, 1978 by C. Pelletier, E. Jermakowicz and B. Zayachivsky. A total of 1031 samples (including soil pits and standard samples) were collected and analysed for uranium for a total of approximately 60.4 line km (37.5 line miles) of survey, representing 13 man days of work.

### 5.3.2 Rock Geochemistry

Rock chip samples were collected in conjunction with the mapping survey. A total of 139 samples were collected and analysed for U and Th by Chemex Labs Ltd., Vancouver, B.C. As well, 6 samples were thin-sectioned and examined by Dr. S. Boutcher.

## 5.4 Radiometric Survey

A radiometric survey utilizing Scintrex BGS-1SL scintillometers was performed in conjunction with the soil sampling survey. A total of 1980 readings were taken, representing 13 man days of work.

## 5.5 Summary of Work Completed

| Type of Work | Man Days | No. Samples | No. Analyses U | No. Analyses Th |
|---|---|---|---|---|
| Geological mapping and rock geochemistry. | 18 | 139 | 139 | 139 |
| Soil Geochemistry. | 13 | 1031 | 1031 | --- |
| Radiometrics | 13 | ---- | ---- | --- |
| Line picketing | | 17.9 km (11.1 mi) | | |
| TOTAL: | 44 | 1170 | 1170 | 139 |

## 5.6 Names and Addresses of Personnel

E. Sacks, M.Sc., — Geologist
Canadian Occidental Petroleum Ltd.,
311-215 Carlingview Drive,
Rexdale, Ontario
M9W 5X8

J. Houle, B.Eng. — Geologist
Canadian Occidental Petroleum Ltd.,
Same address as above.

J. Hooper — Senior Assistant
Same address as above.

E. Jermakowicz — Junior Assistant
Same address as above.

C. Pelletier — Junior Assistant
Same address as above.

B. Zayachivsky — Junior Assistant
Same address as above.

## VI. GEOLOGY

### 6.1 Introduction

The ENEAS area is underlain primarily by Nelson Plutonic granodiorite, quartz diorite and diorite of Cretaceous age. The rocks locally exhibit steeply dipping, NW striking gneissosity. A stock of Oligocene Coryell Plutonic syenite outcrops to the north of the claims, north of Garnet lake. (Little, 1961)

### 6.2 General Geology (PLAN 1)

The ENEAS Claims were mapped at a scale of 1" = 400' by E. Sacks, J. Houle and J. Hooper of Canadian Oxy.

The ENEAS Claims are primarily underlain by a slightly altered, non-foliated, medium-grained intrusive complex. Rock types range in composition from diorites to monzonites and quartz monzonites with accessory biotite and hornblende. Sphene and magnetite occur locally in trace amounts.

The western side of the claim group consists of a north-westerly trending ridge cored by hornblende-quartz monzonite (hQM). Inliers of hornblende diorite (hDi) are to be found on the north and west sides of this area.

The northeastern area of the claim group, northeast of Eneas Creek, consists of a westerly trending upland area cored by hornblende-biotite monzonite (hbMz) and capped by hornblende (+ biotite) diorite (hbDi, hDi). Small inliers or phases of hornblende-biotite quartz monzonite (hbQM) are also present locally.

The southeast portion of the area was neither staked nor mapped (however, was soil sampled) but appears to be underlain by hornblende monzonite (hMz).

Some few aplitic dykes were found throughout the claim group but do not form a mappable unit. These appear to cross-cut all rock types.

A representative sample suite was selected and their sections examined by Dr. Shiela Boutcher. Results conform the generalized field classifications and are presented in Appendix IIb. Dr. Boutcher does, however, indicate that sericite and chloritic alteration as determined from their section studies are more extensive than is visible in hand specimen.

No age relationships among the various rock types were apparent except for the younger, crosscutting aplite dykes. It is the opinion of the mapping geologists that these various rock types represent a single intrusive event with varying mafic contents due to differentation of the igneous mass and/or varying amounts of consumed xenolithic material.

Eneas Creek occupies a steeply east-dipping, north-south striking normal fault deflected eastward or truncated by a east-west trending strike-slip fault at approximately <60S. Joint sets generally paralled these directions.

## 6.3 Table of Formations

| Unit | | | |
|---|---|---|---|
| 4 | | Ap | Aplite |
| 3 | 3b | hQM | Hornblende-Quartz Monzonite |
| | 3a | hbQM | Hornblende-Biotite Quartz Monzonite |
| 3 | 2b | hMz | Hornblende Monzonite |
| | 2a | hbMz | Hornblende-Biotite Monzonite |
| 1 | 1b | hDi | Hornblende Diorite |
| | 1a | hbDi | Hornblende-Biotite Diorite |

## 6.4 Description of Rock Units

### 6.4.1 Unit 1a - Hornblende-Biotite Diorite (hbDi)

This unit is medium-grained, massive and generally unaltered and consists of plagioclase (40-60%) and biotite (5 - 20%). Trace sphene and magnetite occur locally.

The unit typically exhibits a scintillometer response of 50 to 90 cps (BGS-1SL).

### 6.4.2 Unit 1b - Hornblende Diorite (hDi)

This unit is fine to medium-grained, massive to slightly lineated and generally unaltered, and consists of plagioclase (30 - 60%), K-feldspar (0 - 15%), quartz (0 - 19%), hornblende (15 - 50%) and biotite (0 - 5%). Trace sphene and magnetite occur locally.

This unit shows a typical scintillometer response of 70 - 80 cps except near contacts with monzonite or quartz monzonite where response rises to 100 to 120 cps.

### 6.4.3 Unit 2a - Hornblende-biotite Monzonite (hbMz)

This unit is medium to coarse-grained and generally massive with local slight lineation of hornblende. It consists of plagioclase (30 - 60%), K-feldspar (20 - 40%); quartz (0 - 10%), hornblende (10 - 20%) and biotite (5 - 20%) with local trace magnetite.

The unit exhibits a scintillometer response of 100 - 180 cps.

### 6.4.4 Unit 2b - Hornblende Monzonite (hMz)

This unit is medium to coarse-grained and generally massive with local, slight lineation of hornblende. Local brecciation is evident along with epidote veining, sometimes with hematitic halos. The unit comprises plagioclase (30 - 50%), K-feldspar (10 - 40%), quartz (0 - 10%), hornblende (5 - 40%) and biotite (0 - 5%).

Scintillometer response ranges from 80 to 160 cps.

### 6.4.5 Unit 3a - Hornblende-Biotite-Quartz-Monzonite (hbQM)

This unit is medium to coarse-grained and generally massive with local, slightly lineated and foliated sections. It consists of plagioclase (30 - 40%), K-feldspar (20 - 40), quartz (10 - 20%), hornblende (5 - 15%) and biotite (5 - 20%). Trace sphene and magnetite occur locally as disseminated grains.

Scintillometer response is 80 to 100 cps.

### 6.4.6 Unit 3b - Hornblende Quartz Monzonite (hQM)

This unit is medium to coarse-grained and generally massive. It consists of plagioclase (20 - 50%), K-feldspar (20 - 40%), quartz (10 - 20%), hornblende (5 - 25%) and biotite (0 - 5%) with trace sphene locally.

Scintillometer response ranges from 85 to 180 cps.

### 6.4.7 Unit 4 - Aplite (Ap)

This rock type occurs as dykes crosscutting all other rock types at various attitudes. The rock consists primarily of K-feldspar and quartz with less plagioclase component and minor biotite (<2%). Texture is fine-grained sucrosic.

## 6.5 Structure

Figure 2 illustrates schematic vertical cross-sections (east-west) at 255, 50S and 75S.

The major structural features are two postulated faults which cross the ENEAS Claims at right angles. The major, and likely older fault, roughly parallels the baseline from 0 to approximately 60S and forms the valley for Eneas Creek. Valley sides are very steep and faced with blocky outcrop. This fault appears to be a very steeply east dipping, normal fault with west side up and striking in this region at 160°.

The younger structure parallels line 60S and is an east-west striking, steeply north dipping, right-hand strike - slip fault characterized by sharp, but subdued escarpments. At approximately BL60S this younger fault either truncates the NS normal fault and continues as the east-west portion of the Eneas Creek Valley, east of the base line, or deflects the earlier fault to the east. The former situation is favoured due to the large offset of Eneas Creek (approximately 1/2 mile/0.8km) and sharp offset of the hbMz and hQM units (approximately 1/2 mile/0.8km).

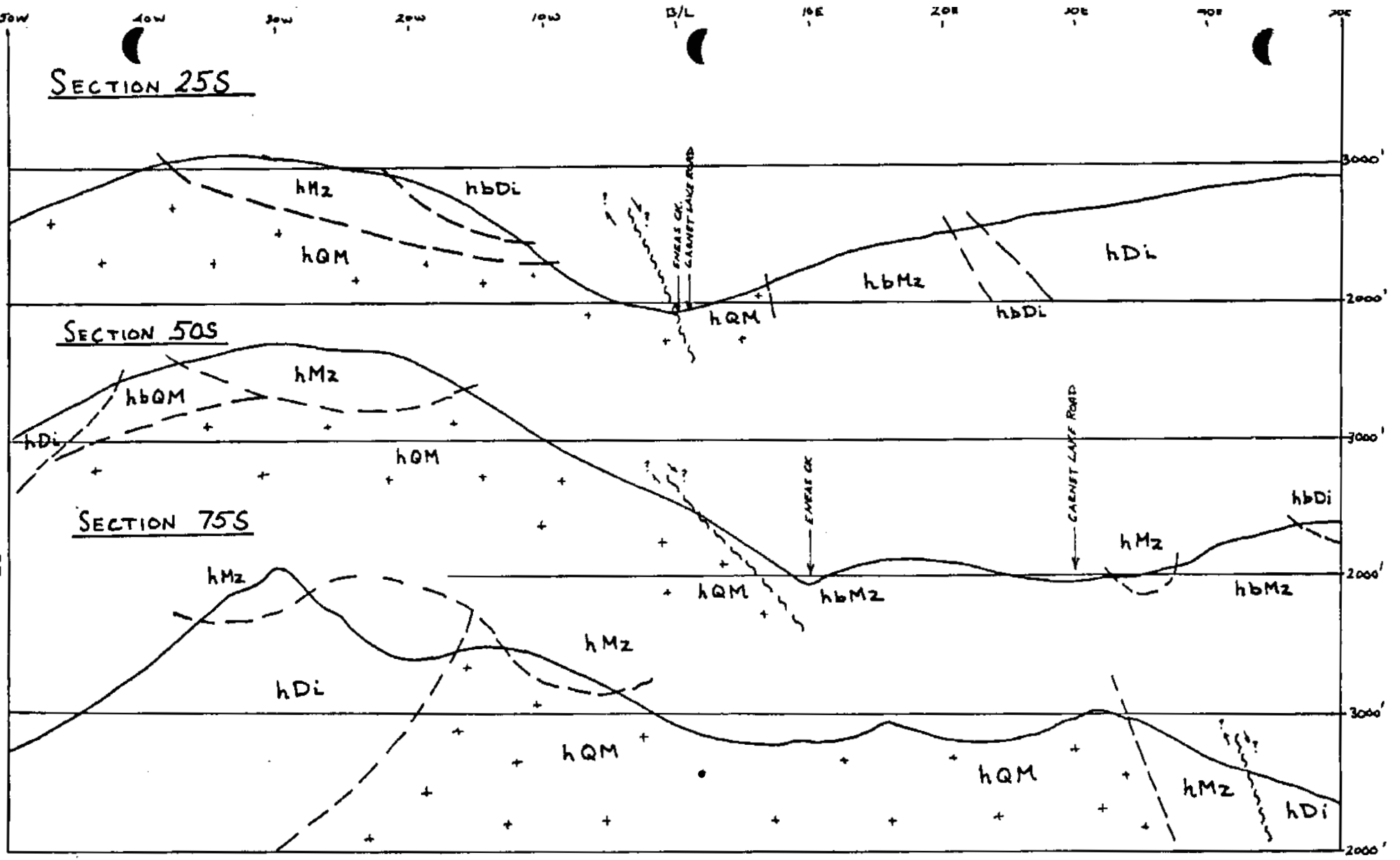



FIGURE 2 : SCHEMATIC VERTICAL SECTIONS (EAST-WEST) LOOKING NORTH

HORIZONTAL SCALE : 1" = 1000'

Jointing is prominent throughout the claim group. Three directions can be resolved at $160^{\circ}/90^{\circ}$, $70^{\circ}/90^{\circ}$ and $30^{\circ}/90^{\circ}$, the first two of which roughly parallel the postulated fault traces. Epidote fillings are common near the NS fault within the quartz-monzonite and monzonite units and these joints often display pinkish, hematized halos in which hematite coats grain boundaries. These halos occur up to 1/2 inch/1.3cm on either side of the joint surface.

## 6.6 Metamorphism

The only significant metamorphism appears to be post intrusive and dynamic resulting in the faults. The presence of epidote and chlorite on fracture surfaces indicates a low grade, retrogressive event accompanying or post-dating the dynamic event(s).

## 6.7 Alteration

Alteration on the ENEAS Claims is minor and localized. Hornblende and biotite show occasional and minor chloritic alteration, especially near joint surfaces with associated limonite and/or hematite staining surrounding these grains.

The epidote-hematite alteration mentioned above seems localized within about 1500 feet either side of the NS fault in the vicinity of lines 8S to 24S and within the monzonite and quartz-monzite units particularily. Epidote filled fractures occompany anomalous radioactivity in an outcrop of HQM at <19S, 11W.

(rock chip sample 79-PR-29858-R) and a broad area of anomalous radioactivity (up to 170 cps) within the quartz-monzonite and monzonite from <8S to <60S, 8W to 12E.

Two other areas of hematitic and/or chloritic alteration were visible. Sacks has noted that the bedrock in Soil Pit No. 1 (<0, 52W) comprises a friable, chloritized diorite or granodiorite with hematite coated fractures. Hill noted, during the 1978 survey, an area of hematitic alteration in the SW portion of the claims (approximately <110S, 55W) which coincides with a broad, soil uranium anomaly (up to 14 ppm) and restricted scintillometer anomaly (up to 120 cps).

## 6.8 Economic Geology

1. One significantly radioactive outcrop was located at approximately L19S, 11W (rock chip sample 79PR29858R). Radioactivity up to 1200 cps (Urtec TC1) and 180 cps on TC2 channel was accompanied by parallel fractures filled with fine-grained epidote. The outcrop, 5 ft. by 5 ft (1.5m x 1.5m) in size, is located within the hMz unit, about 1000 ft, to the west and in the footwall of the NS fault.

   A less radioactive (200 cps on TC1) piece of float was located at <16S, 37W (rock chip sample 79PR29853R). This is likely derived from the western exposure of the hQM unit, however, uphill prospecting failed to reveal the source.

2. It is likely that the source of uranium on the ENEAS Claims is related to the NS fault and associated epidote-chlorite-hematite fractures within the QM and Mz units.

3. The coincident soil and scintillometer anomalies and hematitic alteration of Mz in the SW corner of the claims suggests the possibility of an assocation between hematitic alteration and increased uranium content within the acid intrusive phase possibly structurally controlled. Brecciated was noted in this area.

## VII. SOIL GEOCHEMISTRY (PLAN 3, 3a)

### 7.1 Introduction

Soils on the ENEAS Claims consist primarily of very poorly differentiated and arid till with a possible wind blown component in open grassland areas. The ENEAS Creek valley bottom comprises organic rich, wet gleysols. Soils are usually thin (less than 1 ft./0.3m) to undertermined in depth but the scattered and subdued outcrops suggest that soils reach a maximum depth of only a few tens of feet. In open, grassy areas the soil is very sandy and loose and it is difficult to obtain a sample at depth without upper material contaminating it due to collapse of the pit wall.

## 7.2 Soil Profile

One pit was dug on the ENEAS Claims at 0 + 20S, 52 + 50W (Figure 3). The pit was located on an open, rocky hill which is well drained and arid.

The soil is likely a combination of thin till and/or illuvial material and residual soil as it is very thin and overlies a friable, chloritic and hematitic granodiorite, fragments of which are contained with the profile.

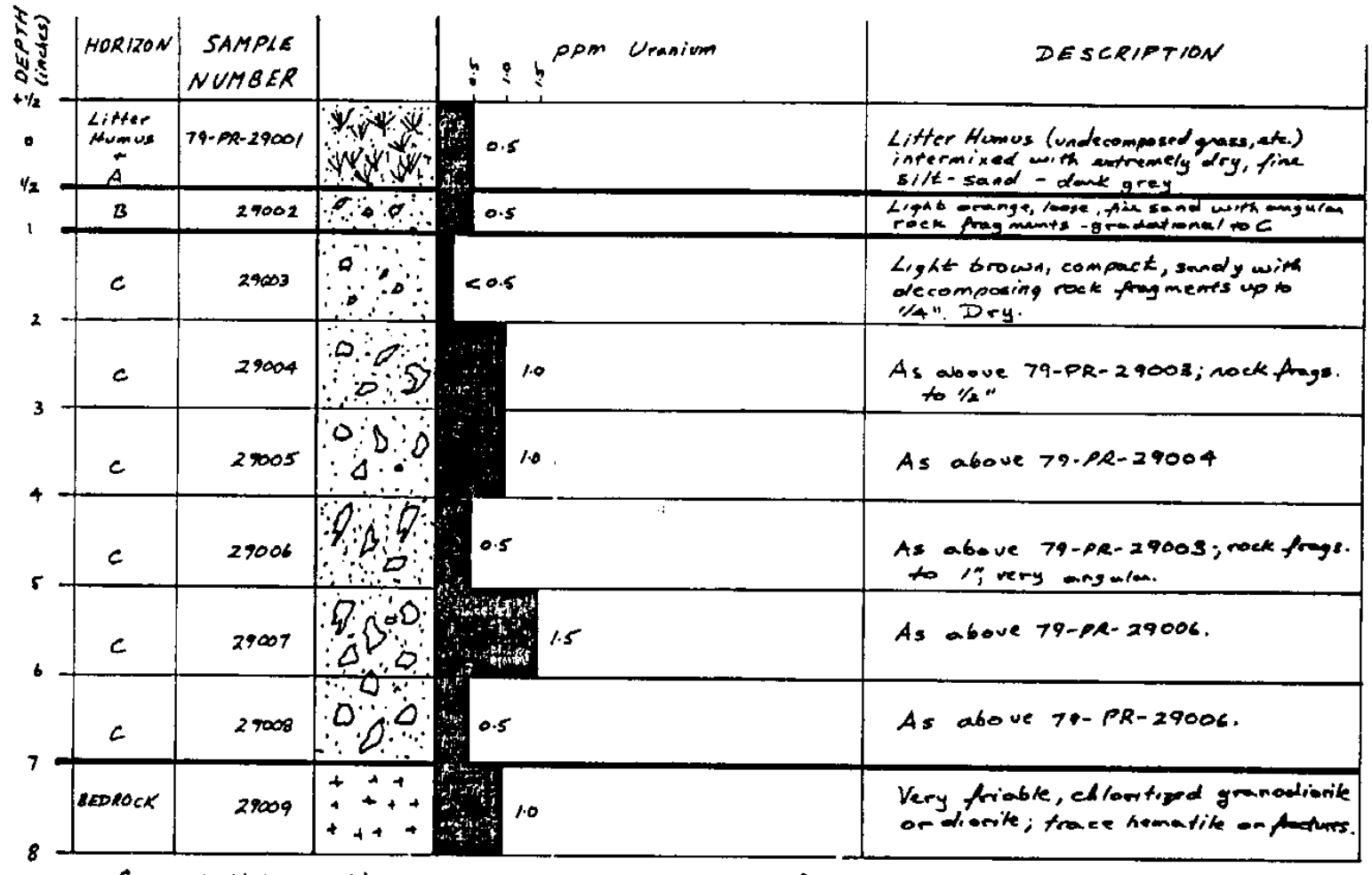
The profile is poorly differentiated with a 1/2 inch (0.8 cm) thick B horizon overlying a compact 6 inch (15 cm) thick C horizon. Decomposing fragments of the underlying rock occur throughout the profile.

Uranium content ranges from <0.5 to 1.5 ppm and seems somewhat concentrated within the upper C horizon, however, the very small absolute value difference reduces the significance of this observation.

The B horizon is generally somewhat thicker over the bulk of the claim group than at this location and widespread and was routinely sampled.

## 7.3 Sampling Procedure

Soil samples were collected from B horizon at 60m (200 ft) intervals along pace and compass lines run at 240m (800 ft) spacings. Samples were placed in heavy duty, high wet-strength, pre-numbered kraft envelopes. An 80 column field data card was filled in with




General Notes: Vegetation - grass; Slope - top of steep W slope; Contamination - none; Drainage - excellent

Likely a residual soil as very thin overlying bedrock and containing fragments of bedrock. Extremely dry and possibly a wind blown component in upper sections.

Figure 3 ENEAS CLAIMS - Soil Pit No. 1 (L0+20S, 52+50W) - Schematic Section, Description and Uranium Content

such data as location, drainage and sample composition for each sample.

Samples were partially dried in the field and then sent to Chemex Labs Ltd., in Vancouver, for analysis for U by fluorimetric method.

## 7.4 Laboratory Procedure

All samples were screened to -80 mesh (177 micrometers), digested in hot perchloric-nitric acid and analysed fluorimetrically for U. Detection limit was 0.5 ppmU. Details of the procedure are listed in Appendix III.

## 7.5 Standard Samples

29 standard samples composed of homogenized material from Soil Pit No. 1 were added to the sample run at random intervals. Values ranged from less than 0.5 ppmU to 2.5 ppmU for an average percent difference from the mean value of 44%. This deviance is considered as being somewhat high. Table I illustrates values for standard samples.

## 7.6 Statistical Treatment of Results

Analytical results were plotted on a frequency distribution histogram (Figure 4). The distribution is extremely positively skewed. Mean, probably anomalous and anomalous levels were chosen visually at 0.5 ppmU , 2 - 5 ppmU and +5 ppmU.

TABLE I - ENEAS CLAIMS - Reproducibility of Standard Samples.

| Sample No. | ppmU | % diff. from Mean | Sample No. | pppmU | % diff. from Mean |
|---|---|---|---|---|---|
| 79PR29022 | 0.5 | 44.4 | 29683 | 1.0 | 11.1 |
| 29043 | 1.0 | 11.1 | 29710 | 0.5 | 44.4 |
| 29074 | 1.0 | 11.1 | 29729 | 0.5 | 44.4 |
| 29111 | 1.5 | 66.7 | 29748 | 1.0 | 11.1 |
| 29133 | <0.5 | 72.2 | - | - | - |
| 29148 | 0.5 | 44.4 | Mean | 0.9 | 44% |
| 29165 | 1.5 | 66.7 | - | - | - |
| 29177 | 1.0 | 11.1 | Total Number of Standard | | |
| 29203 | 2.0 | 122.2 | Samples = 29 | | |
| 29233 | 0.5 | 44.4 | - | - | - |
| 29260 | 1.5 | 66.7 | Range: <0.5 - 2.5 | | |
| 29292 | 1.0 | 11.1 | Avg. % diff. from Mean: | | 44% |
| 29305 | 0.5 | 44.4 | - | - | - |
| 29332 | 0.5 | 44.4 | | | |
| 29350 | 0.5 | 44.4 | | | |
| 29388 | 0.5 | 44.4 | | | |
| 29409 | 0.5 | 44.4 | | | |
| 29432 | 2.5 | 177.8 | | | |
| 29459 | 0.5 | 44.4 | | | |
| 29484 | <0.5 | 72.2 | | | |
| 29518 | 1.0 | 11.1 | | | |
| 29537 | 1.0 | 11.1 | | | |
| 29572 | 1.0 | 11.1 | | | |
| 29601 | 1.0 | 11.1 | | | |
| 29628 | 0.5 | 44.4 | | | |

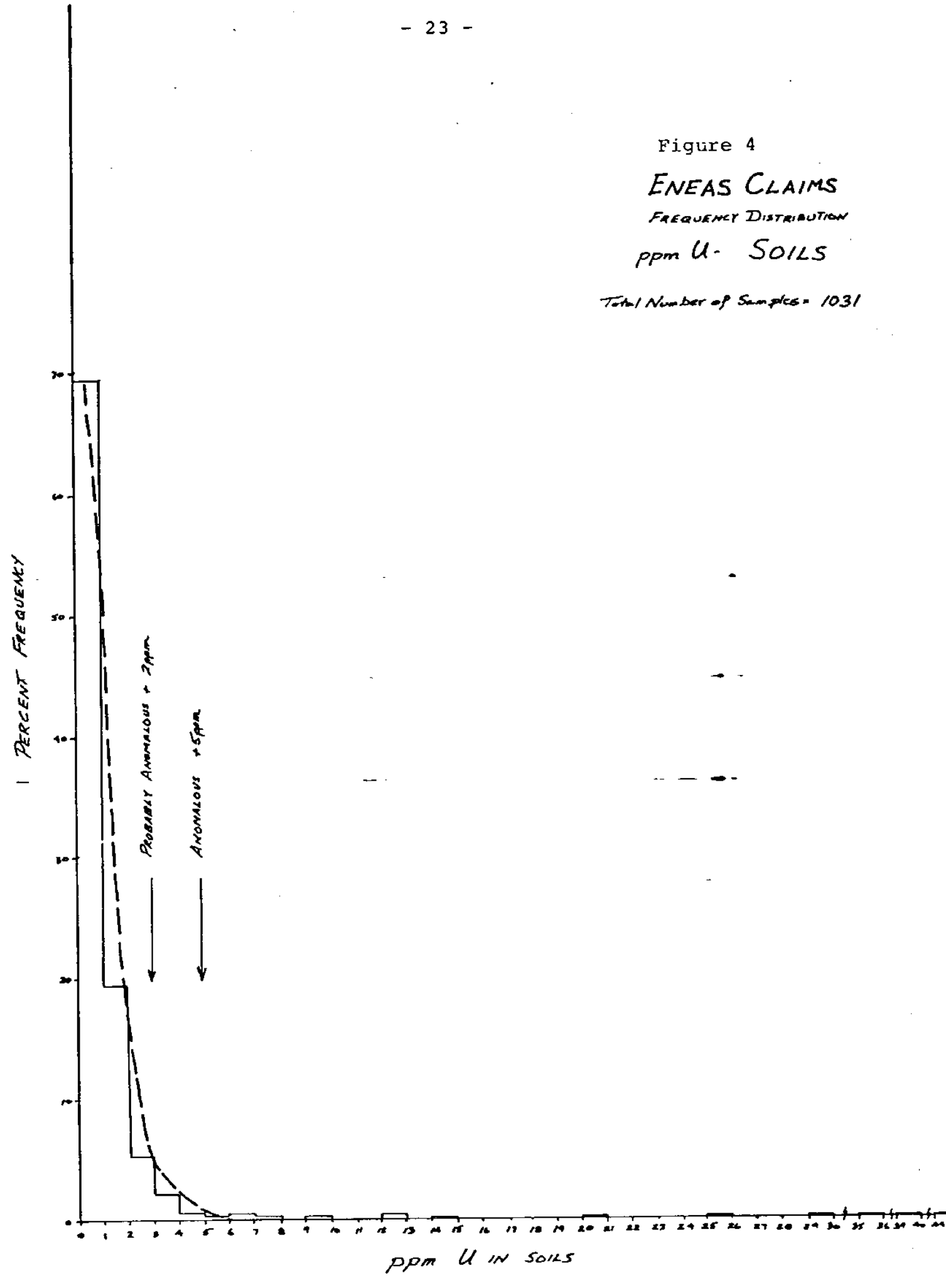
Figure 4

ENEAS CLAIMS

FREQUENCY DISTRIBUTION

ppm U- SOILS

Total Number of Samples = 1031



A total of 1031 samples were of results treated statistically of which 29 were standards, 9 were from Soil Pit No. 1 and 993 were station samples. Analytical results are listed in Appendix I and illustrated on PLAN 3. The data was contoured at the following levels (PLAN 3a); 0-1, 1-3, 3-5, 5-10 and +10 ppmU.

7.7 Results of Soil Sample Survey (PLAN 3, 3a, 5) -

1. The main anomaly occurs in ENEAS Creek valley bottom. It is a NW trending anomaly (200' x 2400' or 60m x 730m) with U values ranging from 11.5 to 50 ppm. and extends from L24S to L48S, BL to 10E. Enrichment of uranium due to organic rich valley-bottom material was considered but there appears to be no direct relationship between high organic content and anomalous uranium content in soils.

   The anomaly coincides with anomalous scintillometer readings (7150 cps Scintrex BGS-1SL), anomalous rocks (3-6.5 ppmU in QM at north end of the anomaly), a predominant QM unit and epidote - hematite alteration within fractures. It is cut by the NS trending ENEAS Creek Valley fault. Fracturing in the area is pervasive.

   The anomaly is truncated by the eastward deflection of ENEAS Creek Valley by the younger EW fault. The source of uranium is likely associated with the NS ENEAS Creek Valley fault and of the intergranitic vein type.

2. A secondary soil uranium anomaly occurs in the SW portion of the claims (approximately L100S, 55W) associated with hematitic alteration of the hMz unit. Sporadic scintillometer readings up to 115 cps coincide. Structural control may be a factor in this area due to local brecciation.

## VIII. ROCK GEOCHEMISTRY

### 8.1 Introduction

A total of 139 rock chip samples were collected during the mapping survey at approximately 300m (1000 ft) intervals. All samples were described, a portion of each kept for reference, and a small portion of each sent to Chemex Labs Ltd., Vancouver, B.C. for analysis for U (fluorimetric) and Th (neutron activation). The aim was to determine the background U content of each rock type as an aid to prospecting and to upgrade or downgrade other anomalies with the aid of U/Th ratios.

### 8.2 Laboratory Procedures

All samples were crushed to 90% - 200 mesh, digested in hot perchloric-nitic acid and analysed for U by fluorimetry. Detection limit was 0.5 ppmU.

Samples of crushed rock were also analysed for Th by neutron activation with a 1ppm detection limit.

Details of analytical procedures are listed in Appendix III.

## 8.3 Statistical Treatment of Results

U values were plotted on a frequency distribution histogram (Figure 5). The distribution is extremely positively skewed and samples above 13 ppmU are definitely anomalous. To determine background, etc. of the main population (<13 ppm) a cumulative frequency distribution was plotted (Figure 6). Mean, possibly anomalous and probably anomalous were determined at the 50th, 84th and 97th percentiles as 1ppm, 2ppm and 8ppm respectively. Uranium values in soils overlying all mappable rock types were treated together as there were no great differences in values between these units upon visual examination of the data.

Thorium data were not treated in the above way and were used to construct U/Th ratios only.

Analytical data are presented in Appendix I and are listed against rock descriptions in Appendix II. U and Th values and U/Th ratios listed by rock type are presented in Appendix IIa.

## 8.4 Results of Rock Geochemistry Survey

1. Figures 7, 8 and 9 illustrate the uranium content distributions for units 1 (diorite), 2 (monzonite) and 3 (quartz monzonite) respectively, as against the distribution of uranium contents for all rock types combined. Mean uranium contents for the diorite, monzonite and quartz monzonite are approximately 1ppm, 1.5 ppm and 2.5ppm respectively. Anomalous contents of uranium (+2.5ppm)

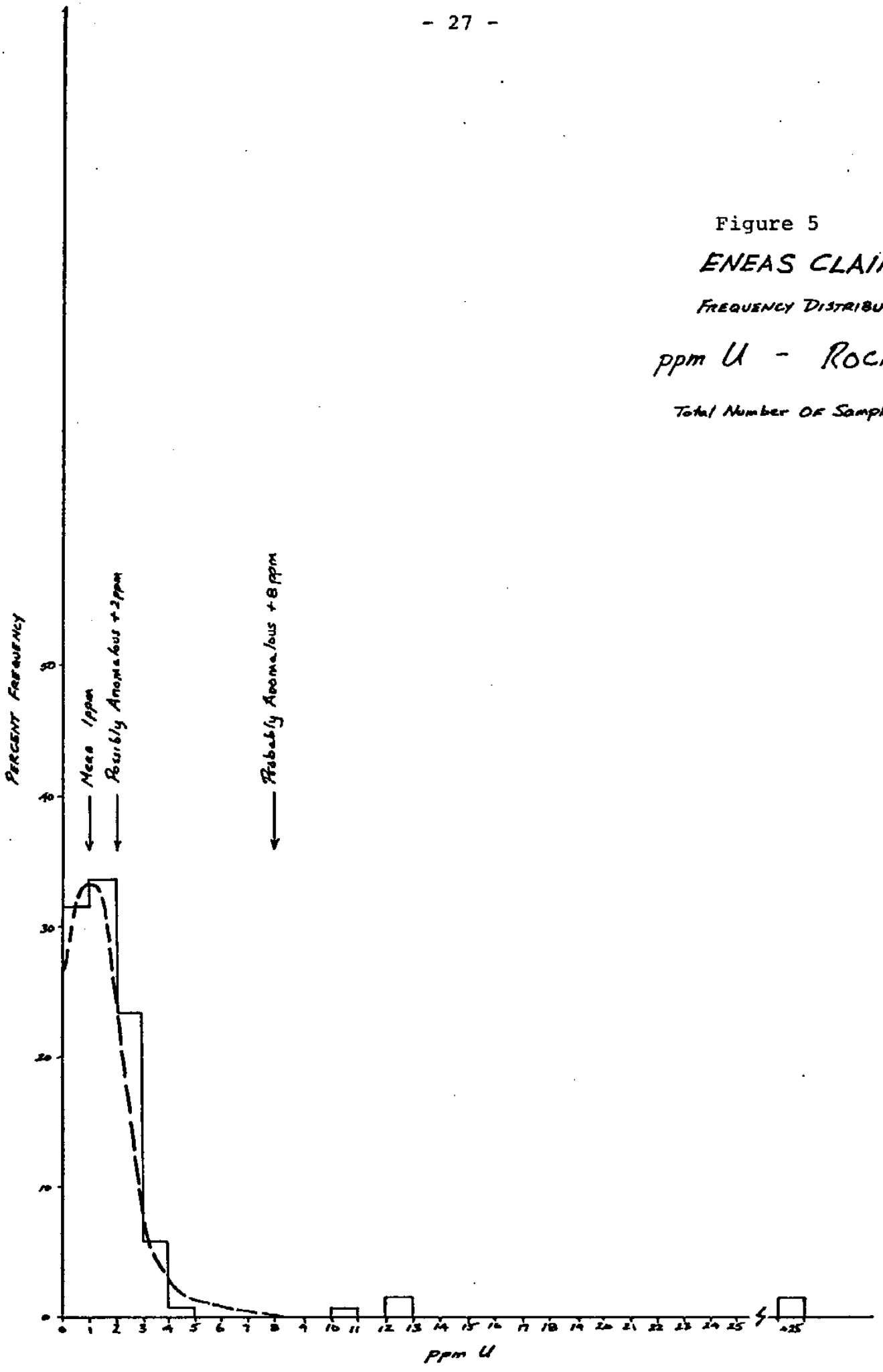
Figure 5

ENEAS CLAIMS

FREQUENCY DISTRIBUTION

ppm U - ROCKS

Total Number OF Samples = 139



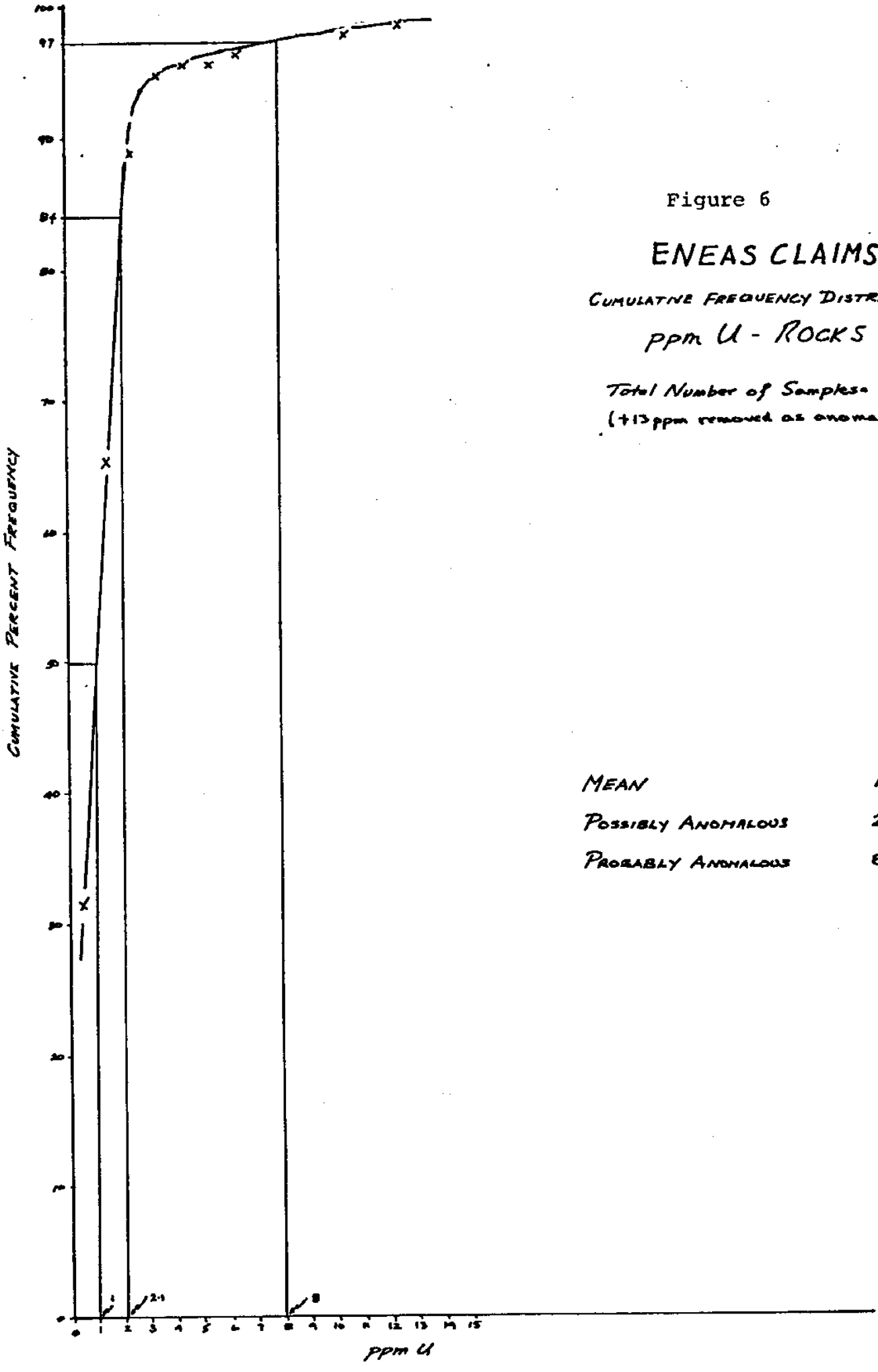



Figure 6

# ENEAS CLAIMS

## CUMULATIVE FREQUENCY DISTRIBUTION

## ppm U - ROCKS

Total Number of Samples= 137
(+13 ppm removed as anomalous)

| | |
|---|---|
| MEAN | 1ppm |
| POSSIBLY ANOMALOUS | 2 ppm |
| PROBABLY ANOMALOUS | 8ppm |

Figure 8

ENEAS CLAIMS

ROCK GEOCHEMISTRY -ppm U

By Rock Unit

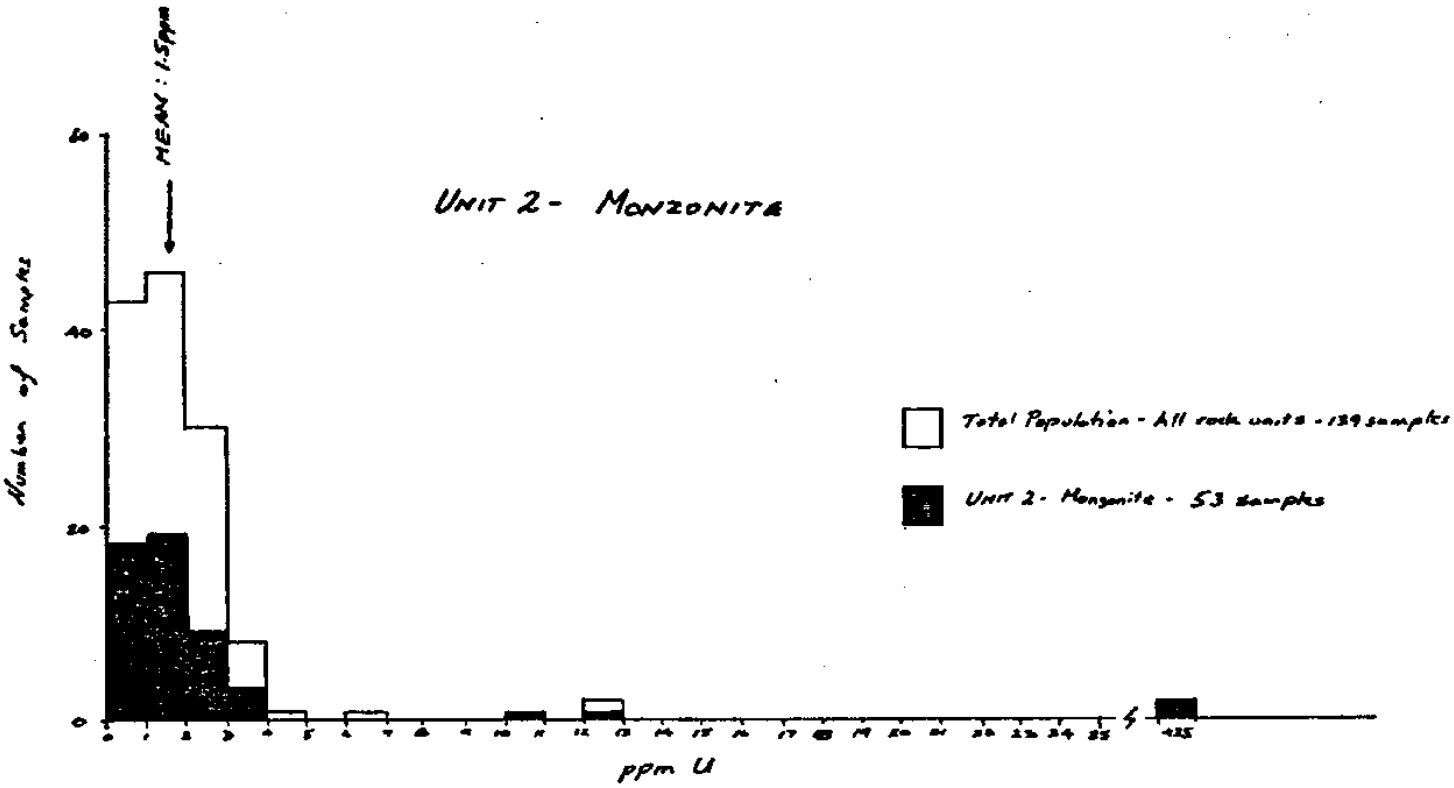



Figure 7

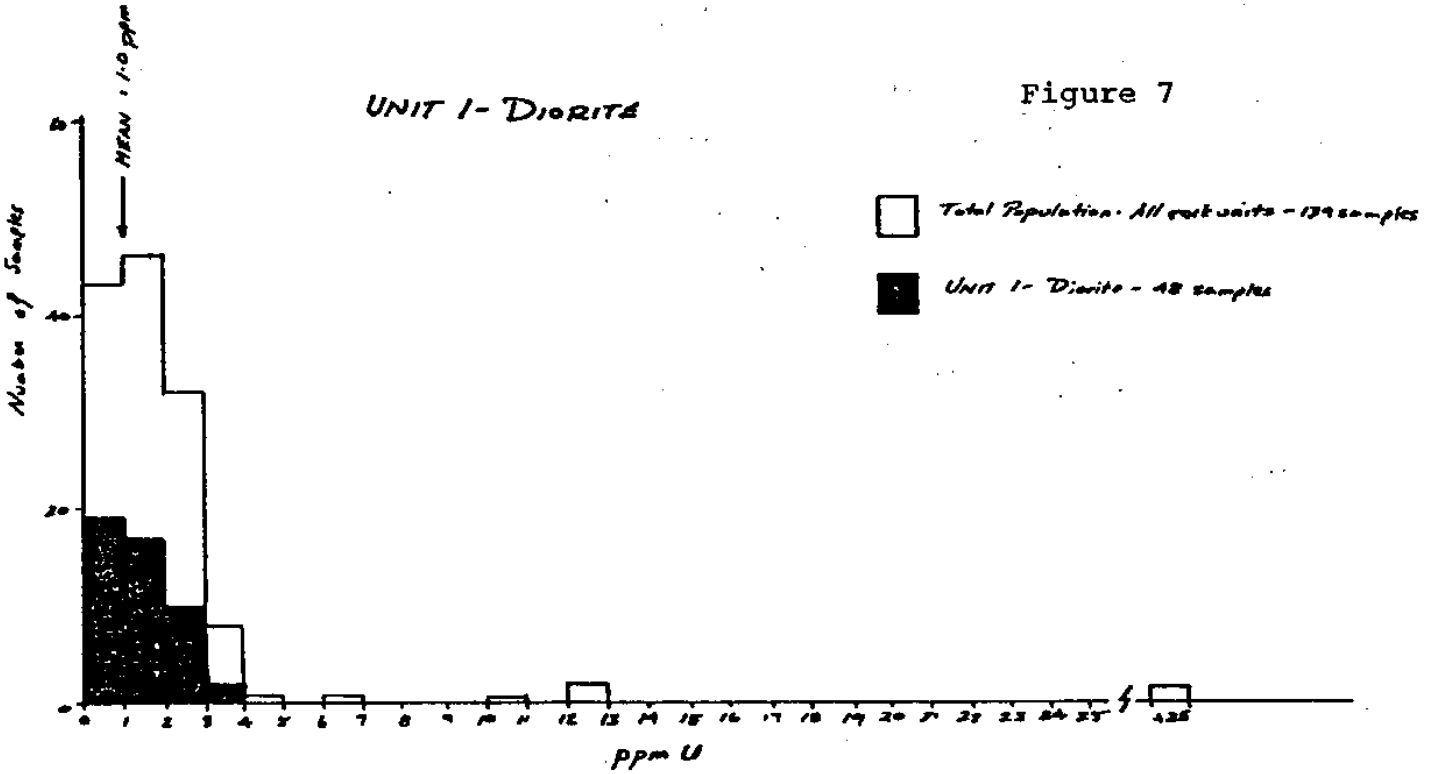
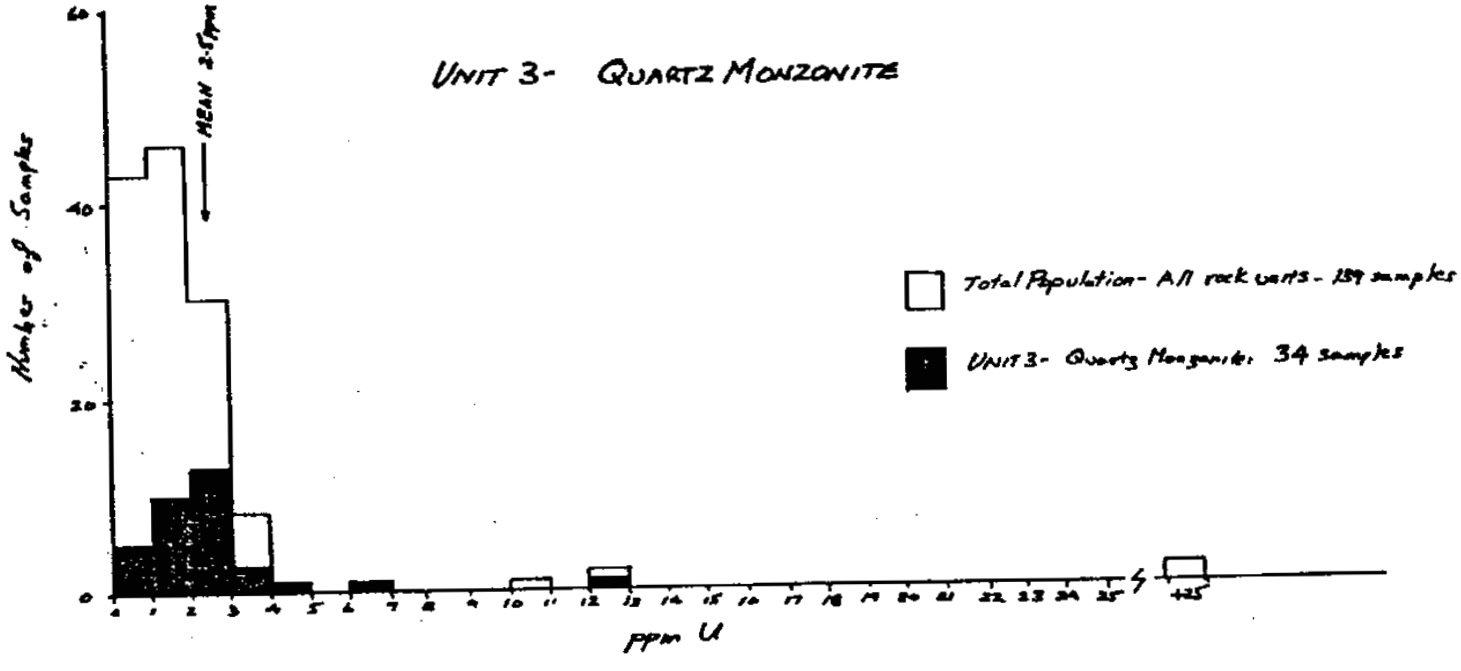


Figure 9

ENEAS CLAIMS

ROCK GEOCHEMISTRY - ppm U
By Rock Unit



are restricted to the monzonite and quartz monzonite units.

2. The highest uranium value (35ppmU, 6ppmTh) occurs in monzonite in the SW part of the claims (L96S, 42W, Sample No. 79PR29890) just up-hill from the broad, secondary uranium soil anomaly. This sample is the only one collected with a U/Th ratio greater than 1 (U/Th = 5.8). A second sample of monzonite to the SE of this site, and also up-slope from the soil anomaly, contains 10.5ppmU and 72ppmTh (Sample No. 79PR29895 at L112S, 31+50W). Both samples are from the biotite deficient variety of monzonite (Unit 2b-hMz).

3. A third anomalous sample (12.5ppmU, 190ppmTh) occurs in quartz-monzonite (hQM) south of Eneas Creek at L72S, 16E (79PR2988Z). There is no coincident soil or scintillometer anomaly, however, waters draining this area are anomalous in uranium. (1978 survey).

4. Rocks underlying the main soil anomaly in Eneas Creek Valley in the N part of the claims contain from 3 to 6.5ppmU, the anomalous samples all being hornblende-quartz-monzonite (hQM). A sample from the radioactive outcrop at L19S, 11W contained only 3ppmU and 30ppmTh.

5. It appears that the source for recoverable uranium on the ENEAS claims, ie. that determined fluorimetrically in soils and rocks, is first by the quartz-monzonite and secondly, the monzonite, particularly the biotite deficient varieties. The diorite is low in U (<2ppm). The main soil-scintillometer anomaly in Eneas Creek Valley is strongest where the NS fault cuts quartz monzonite and weakens over adjacent monzonite.

6. Examination of Appendix IIa, which lists U and Th contents and U/Th ratios by rock type, indicates that with the exceptions of two samples, all have U/Th ratios much less than unity. As well, the biotite deficient varieties of both monzonite and quartz-monzonite have mean U/Th ratios approximately 4 times those of the biotite-rich equivalents. The diorite unit does not follow this pattern.

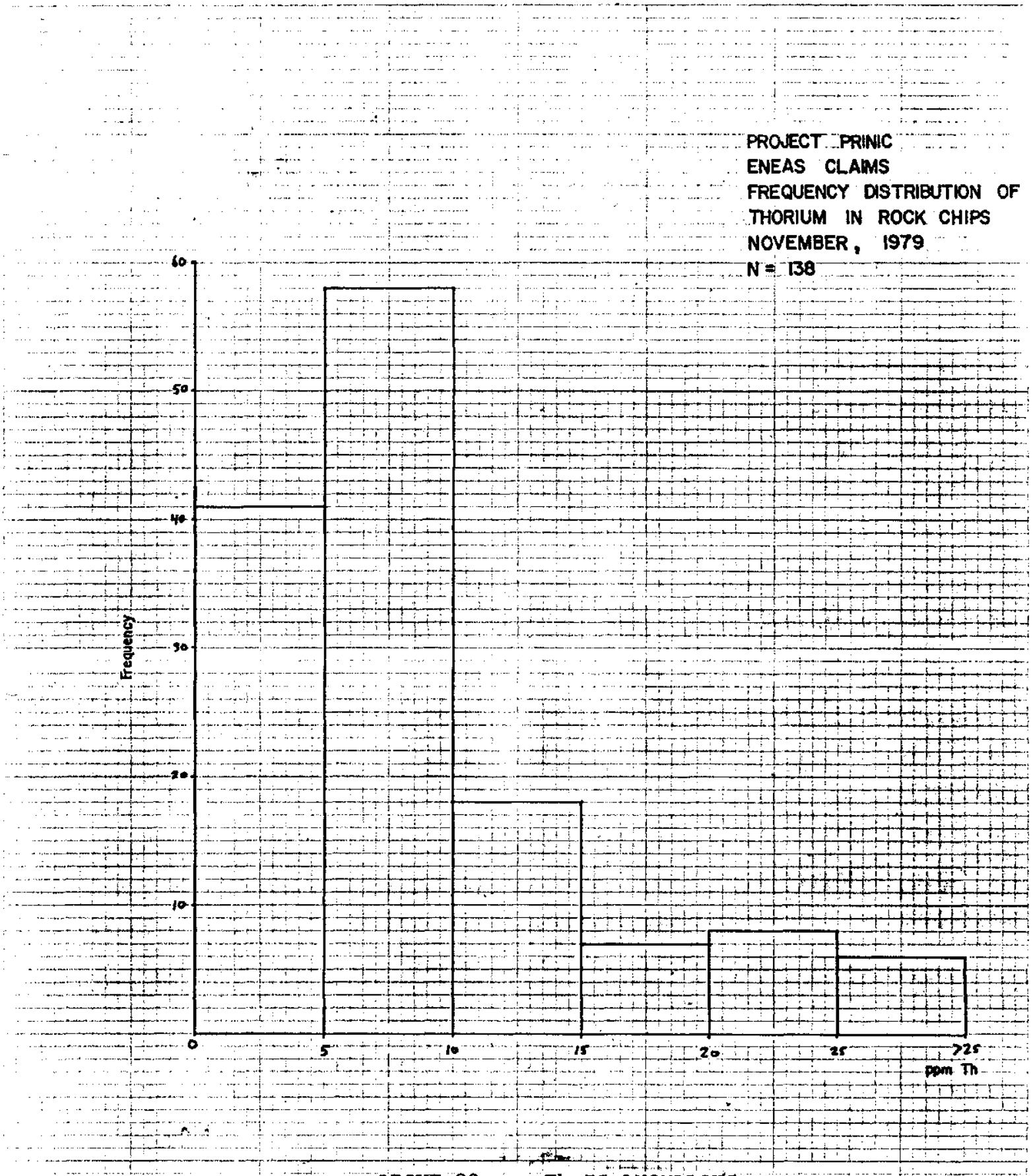
Table 2 below, summarizes Appendix IIa and illustrates that while the biotite deficient monzonite and quartz-monzonite have the higher U/Th ratios the increase is primarily due to an absolute increase in uranium content. There appears to be no significant correlation between this increase in uranium content and scintillometer response, however, the diorite unit may be differentiated from the acid intrusives by this means.

TABLE 2 - Summary of U, Th, U/Th and Scintillometer Response by Rock Unit

| Unit | Mean ppmU | Mean ppmTh | Mean U/Th | Scintillometer Response (cps) |
|---|---|---|---|---|
| 1a - hbDi | 1.2 | 3.9 | 0.40 | 50-90 |
| 1b - hDi | 1.9 | 8.2 | 0.28 | 100-120 |
| 2a - hbMz | 0.9 | 14.8 | 0.09 | 100-180 |
| 2b - hMz | 3.1 | 14.8 | 0.38 | 80-160 |
| 3a - hbQM | 1.2 | 14.3 | 0.08 | 80-100 |
| 3b - hQM | 3.0 | 18.9 | 0.27 | 85-180 |
| 4 - Ap | 1.3 | 4.5 | 0.28 | - |

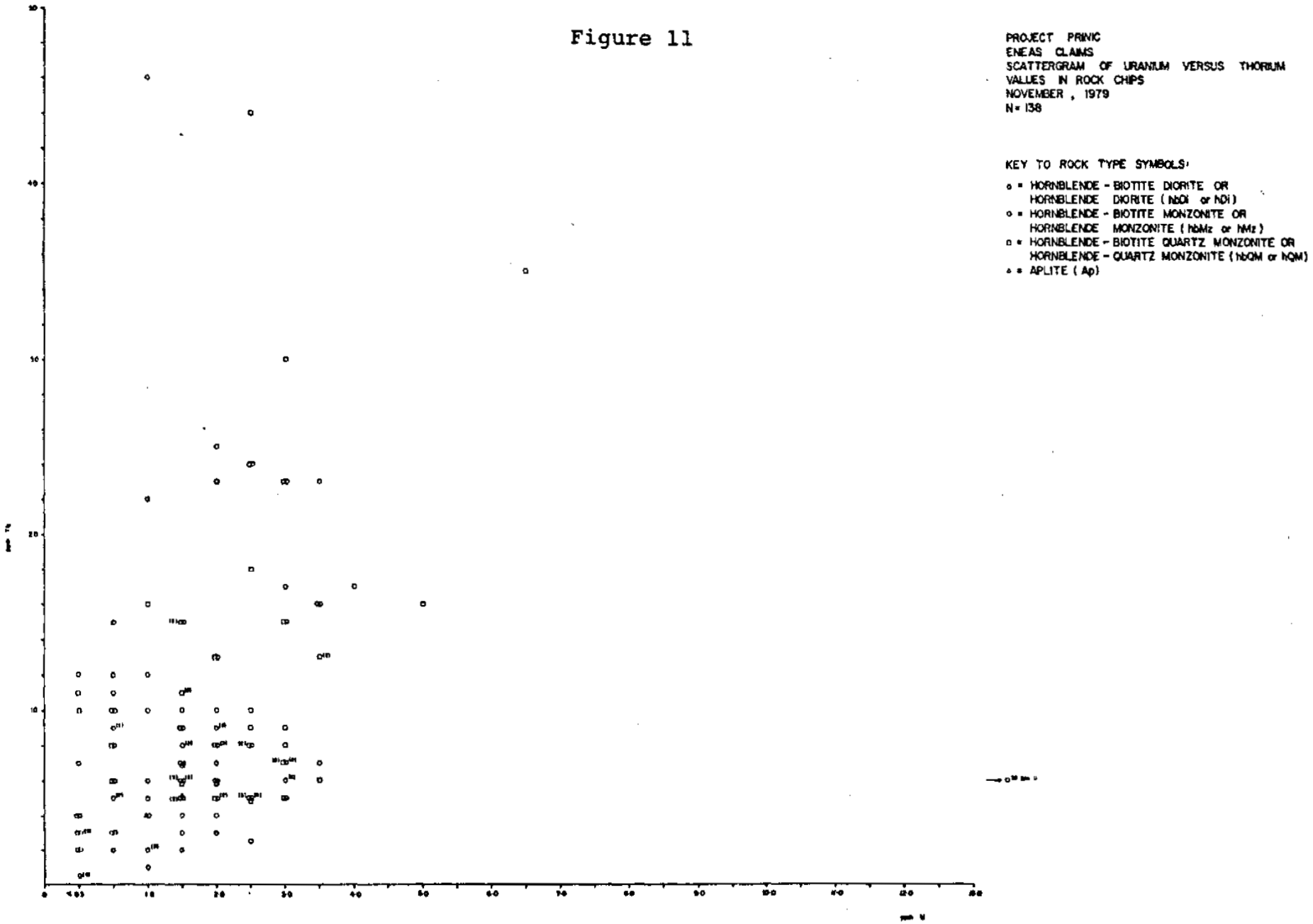
7. The low U/Th ratios in all rock types indicating that the rocks immediately underlying the ENEAS Claims are unlikely to act as sources for economic uranium mineralization on their own unless there is a structural modification through faulting or brecciation.
The restriction of soil and coincident rock geochemical anomalies and radiometric anomalies to the NS fault zone and SW, brecciated part of the claims supports the conclusion that potential mineralization of the ENEAS Claims would most likely be structurally controlled and of intergranitic vein type.

Figure 10




ABOVE 20 ppm Th IS ANOMALOUS

Figure 11




NB - Uniform distribution of Th/U independent of rocktype.

# IX. RADIOMETRIC SURVEY (PLAN 4, 4a)

## 9.1 Introduction

A scintillometer survey was carried out in conjunction with the soil sampling survey. A Scintrex BGS-1SL scintillometer was utilized. Readings were taken at 30m (100 ft) stations along the grid lines. All readings were taken from hip level. A total of 1,980 readings were taken.

## 9.2 Statistical Treatment of Results

All readings were plotted on a frequency distribution diagram (Figure 10) and cumulative frequency diagram (Figure 11). The resulting distribution approximated the normal distribution with slight positive skewness. Mean, possibly anomalous and probably anomalous levels were determined from the cumulative frequency diagram at the 50th, 84th and 97th percentiles as 89 cps, 113 cps and 141 cps.

## 9.3 Results of Radiometric Survey (PLAN 4, 4a, 5)

1. The main soil anomaly in Eneas Creek Valley lies within a broad area of possibly anomalous radioactivity (113 to 141 cps) in quartz monzonite and monzonite. Scattered small areas of probably anomalous radioactivity (up to 200 ft x 400 ft or 60m x 120m) of up to 180 cps

Figure 12

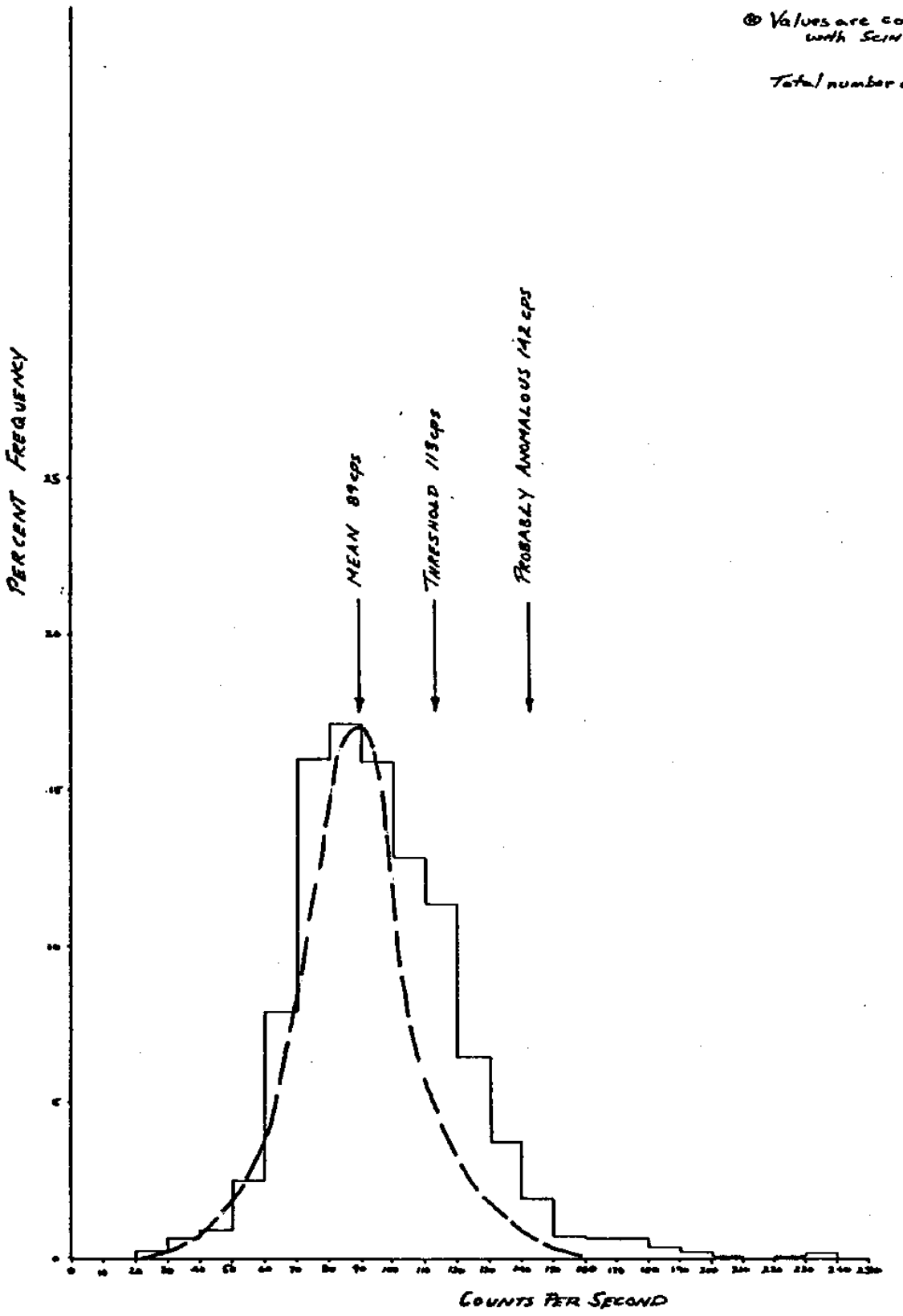
ENEAS CLAIMS

FREQUENCY DISTRIBUTION

RADIOMETRIC SURVEY

@ Values are counts per second taken with SCINTREX BGS-1SL

Total number of readings = 1,978



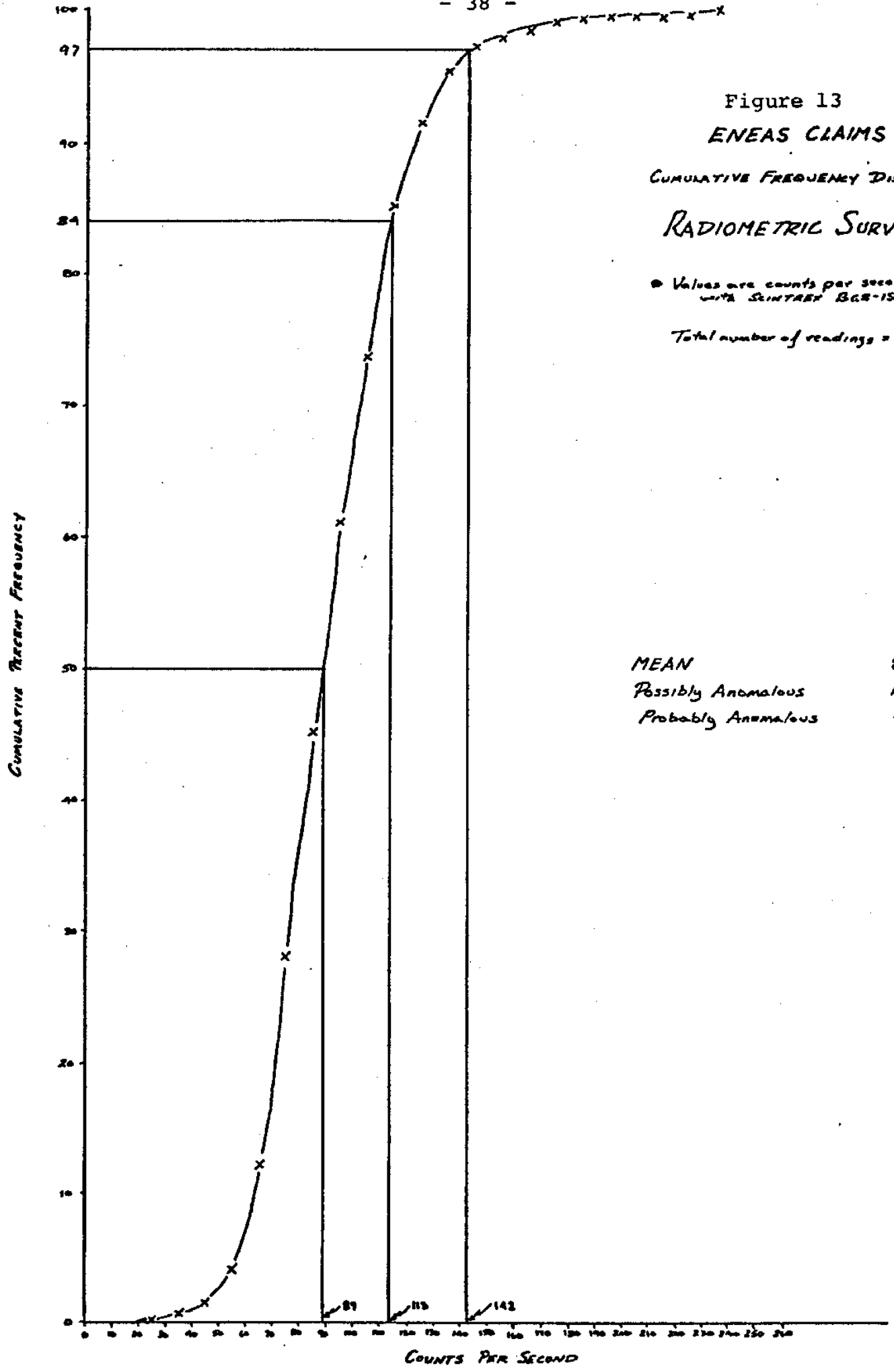



Figure 13

ENEAS CLAIMS

CUMULATIVE FREQUENCY DISTRIBUTION

RADIOMETRIC SURVEY

* Values are counts per second taken with SCINTREX BGS-1SL

Total number of readings = 1,978

| | |
|---|---|
| MEAN | 89 cps |
| Possibly Anomalous | 113 - 141 cps |
| Probably Anomalous | +141 cps |

overlie the fringes of the soil anomaly. These anomalies appear to correlate with outcrop areas on the valley sides while the central portion of the soil anomaly in the valley bottom is marked by a radiometric low where overburden cover predominates. (see Schematic Vertical Section - PLAN 5a). Thus, the correlation of soil anomalies with radiometric lows, a common occurrence on the ENEAS Claims, is likely due to the relative distributions of outcrop and overburden rather than to any weathering or leaching phenomena.

2. The secondary soil anomaly in the SW part of the claims does not exhibit any anomalous scintillometer response.

3. As can be seen from Table 2 (Section 7.4), the diorite unit exhibits a somewhat lower scintillometer response (50 to 120 cps) than the monzonite and quartz-monzonite units (80 to 180 cps) although there is some overlap: the monzonite and quartz-monzonite and also the biotite-rich and biotite-deficient varieties of all the rock types are not distinguishable from the radiometric survey, ie. radiometrics has not served to distinguish rock types in any reliable way.

4. The EW fault is marked by abrupt cutoffs of NS trending scintillometer anomalies along L60S (Plan 5). This is particularly marked where monzonite and diorite are in fault contact and less so where monzonite and quartz monzonite are in contact. This is due to the somewhat lower

radiometric response of the diorite versus the monzonite and quartz-monzonite. Thus, gross structures (fault or lithologic contacts) separating significantly different rock types may be defined by this type of survey while subtle differences would not be.

5. There are numerous scattered radiometric anomalies over quartz monzonite and monzonite throughout the ENEAS Claims (PLAN 5). Except for those mentioned above there are no co-incident soil anomalies. These are likely a result of the statistical treatment in which readings over all rock types are lumped together with the diorite, having lower response, forming background (no anomalies) and more radioactive monzonite and quartz-monzonite constituting the anomalous portion of the population. Only where spatial relationships between scintillometer and soil anomalies or structure exist, as above, are these anomalies considered significant. In these cases eg. Eneas Creek Valley, radioactivity is still anomalous even given the particular underlying rock unit's response.

## X. CONCLUSIONS

1. The ENEAS Claims are underlain by mappable units of diorite, monzonite and quartz-monzonite, each divisible into biotite rich and biotite deficient varieties, and local unmappable aplite dikes and pods.

   The claims are cut by a major NS trended, steeply east-dipping normal fault along Eneas Creek Valley and a younger, EW trending, right hand strike-slip fault along L60S which truncates or deflects the older fault to the east. The NS fault is accompanied by strong fracturing with epidote-hematite alteration up to 1000 ft into the footwall and localizes a strong, linear uranium in soil anomaly with co-incident radiometric and uranium rock anomalies.

2. The uranium soil geochemistry survey indicates only two significant anomalies. The main one of which is localized by the NS fault in Eneas Creek Valley. The secondary, weaker, anomaly occurs in the SW part of the claim group associated with an area of hematitic alteration of monzonite and suspected brecciation.

3. The uranium rock geochemistry survey indicates that the monzonite and particularly the quartz monzonite units contain up to 2.5 times the average recoverable uranium content of the diorite unit, with biotite deficient phases particularly enriched (up to 3 to 3.5 x diorite).

In all cases U/Th ratios are much less than unity indicating that the rocks underlying the ENEAS claims are not in themselves favourable as a uranium source without structural modification. Areas underlain by monzonite or quartz-monzonite and which have been fractured and altered are favourable to uranium mineralization. Areas underlain by diorite have a low priority.

4. The radiometric survey indicates no significant radioactive anomalies except for those coincident with the NS fault. The diorite is distinguishable from the monzonite and quartz-monzonite. However, the acidic phases may not be distinguished from each other. Structures which juxtapose significantly different rock types (eg. diorite-quartz-monzonite) such as faults or lithologic contacts may be defined by this method.

5. The only potential drill target, at this time, is the strong linear uranium in soil anomaly localized by the NS fault in Eneas Creek Valley.

6. Uranium water anomalies in the southern part of the claim group defined by the 1979 survey are derived from quartz-monzonite and monzonite which contain high background contents of recoverable (fluorimetrically defined) uranium.

Uranium water anomalies in Eneas Creek extend upstream from the main soil anomaly and into Garnet Lake. These are likely derived from pegmatites on the northern shore of Garnet Lake

and also possibly from the syenitic stock outcropping further north. Anomalous waters downstream from the anomaly may in part be derived from it, however, the dam at the east end of Garnet Lake prevents anomalous lake silts entering ENEAS Creek and stream silts in ENEAS Creek downstream from the anomaly do not contain high amounts of uranium.

7. Uranium in intergranitic, structurally controlled veins is the most likely model for potential uranium mineralization on the ENEAS Claims.

## XI. RECOMMENDATIONS

1. The vicinity of the NS fault in ENEAS Creek valley (main soil anomaly) should be thoroughly prospected and geologically mapped on properly cut grid lines a maximum of 120m (400 ft) apart. Fill in soil and scintillometer surveys over these lines should also be conducted. The area covered should extend from L4S to L60S, 15E to 15W.

   Epidote and hematite alteration and fracture types and orientatious should be particularly examined.

   The north end of the soil uranium anomaly at BL20S is easily accessible to truck mounted drilling equipment via dirt tracks leading east off Garnet Lake Road for any drilling required after the anomaly is more properly

defined.

2. The vicinity of the radioactive outcrop at L195, 11W is included in (1.) above. The area is, however, not accessible to large drilling equipment without significant site preparation and drill water would be a problem. Light, back-packable drilling equipment and/or trenching should be considered. The outcrop itself should be thoroughly stipped to determine its extent and character of mineralization. The relationship of fractures, epidote-hematite alteration and uranium content is on-going.

3. The weaker uranium soil anomaly in the SW part of the claims (L90S to L120S, 40W to 56W) should be thoroughly mapped, prospected, soil sampled and radiometrically surveyed on 120m (400 ft) lines as in (1.) above. Drilling is not recommended at this time.

Respectfully submitted,

Eric James Sacks

ERIC JAMES SACKS, M.Sc.

# APPENDIX I

## List of Analytical Results

## Soil and Rock

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

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RECEIVED Aug. 13/79

ANALYSED Aug. 27/79

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr., Soil
Rexdale, Ontario M9W 5X8

ATTN: PROJECT: Eneas CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29001 | 0.5 |
| 29002 | 0.5 |
| 29003 | <0.5 |
| 29004 | 1.0 |
| 29005 | 1.0 |
| 29006 | 0.5 |
| 29007 | 1.5 |
| 29008 | 0.5 |
| 29009 | 1.0 |
| 29010 | 1.0 |
| 29011 | 1.0 |
| 29012 | 15 |
| 29013 | 0.5 |
| 29014 | 1.0 |
| 29015 | 0.5 |
| 29016 | <0.5 |
| 29017 | 0.5 |
| 29018 | <0.5 |
| 29019 | <0.5 |
| 29020 | <0.5 |
| 29021 | <0.5 |
| 29022 | 0.5 |
| 29023 | 0.5 |
| 29024 | <0.5 |
| 29025 | 1.0 |
| 29026 | 1.5 |
| 29027 | 2.0 |
| 29028 | 0.5 |
| 29029 | 0.5 |
| 29030 | 1.0 |
| 29031 | 0.5 |
| 29032 | 1.0 |
| 29033 | 50 |
| 29034 | 2.0 |
| 29035 | 0.5 |
| 29036 | 0.5 |
| 29037 | 0.5 |
| 29038 | 1.0 |
| 29039 | <0.5 |
| 79 PR 29040 | 1.0 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hank Biesle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
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Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

ATTN: PROJECT: Eneas-Soil CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29078 | 0.5 |
| 29079 | 6.5 |
| 29080 | 0.5 |
| 29081 | 1.0 |
| 29082 | <0.5 |
| 29083 | 0.5 |
| 29084 | 1.5 |
| 29085 | 1.5 |
| 29086 | 1.5 |
| 29087 | 0.5 |
| 29088 | 1.0 |
| 29089 | 0.5 |
| 29090 | 0.5 |
| 29091 | 1.5 |
| 29092 | <0.5 |
| 29093 | 1.5 |
| 29094 | 2.0 |
| 29095 | 0.5 |
| 29096 | 1.0 |
| 29097 | 1.0 |
| 29098 | <0.5 |
| 29099 | 0.5 |
| 29100 | 0.5 |
| 29101 | 0.5 |
| 29102 | 0.5 |
| 29103 | 0.5 |
| 29104 | <0.5 |
| 29105 | 0.5 |
| 29106 | 0.5 |
| 29107 | 1.5 |
| 29108 | 1.5 |
| 29109 | 3.0 |
| 29110 | 2.5 |
| 29111 | 1.5 |
| 29112 | 1.0 |
| 29113 | 0.5 |
| 29114 | 1.5 |
| 29115 | 0.5 |
| 29116 | 1.0 |
| 79 PR 29117 | 1.0 |

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CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
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ATTN: PROJECT: Eneas-Soil CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29118 | 0.5 |
| 29919 | <0.5 |
| 29120 | 0.5 |
| 29121 | 1.0 |
| 29122 | 0.5 |
| 29123 | 0.5 |
| 29124 | 4.5 |
| 29125 | 0.5 |
| 29126 | <0.5 |
| 29127 | <0.5 |
| 29128 | <0.5 |
| 29129 | <0.5 |
| 29130 | <0.5 |
| 29131 | <0.5 |
| 29132 | <0.5 |
| 29133 | <0.5 |
| 29134 | 0.5 |
| 29135 | 1.0 |
| 29136 | 0.5 |
| 29137 | 0.5 |
| 29138 | 4.0 |
| 29139 | 0.5 |
| 29140 | 0.5 |
| 29141 | 1.0 |
| 29142 | <0.5 |
| 29143 | <0.5 |
| 29144 | 4.0 |
| 29145 | 0.5 |
| 29146 | 13.0 |
| 29147 | <0.5 |
| -29148 | 0.5 |
| -29149 | 0.5 |
| -29150 | 0.5 |
| -29151 | 0.5 |
| -29152 | 0.5 |
| -29153 | <0.5 |
| -29154 | <0.5 |
| 29155 | 0.5 |
| 29156 | 1.0 |
| 79 PR 29157 | 0.5 |

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ANALYSED Aug. 28/79

ATTN:
PROJECT: Eneas-Soil CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR-29158 | <0.5 |
| -29159 | 0.5 |
| -29160 | 1.5 |
| -29161 | 1.0 |
| -29162 | 0.5 |
| -29163 | 0.5 |
| -29164 | 0.5 |
| 29165 | 1.5 |
| -29166 | 1.0 |
| -29167 | 1.5 |
| -29168 | 0.5 |
| -29169 | 1.0 |
| -29170 | 0.5 |
| -29171 | 1.5 |
| -29172 | 0.5 |
| -29173 | 0.5 |
| -29344 | 9.5 |
| -29345 | <0.5 |
| -29346 | 3.5 |
| -29347 | 1.5 |
| -29348 | 1.5 |
| -29349 | 6.0 |
| 29350 | 0.5 |
| -29351 | 36 |
| -29352 | 40 |
| -29353 | 1.5 |
| -29354 | 0.5 |
| -29355 | 1.0 |
| -29356 | 0.5 |
| -29357 | <0.5 |
| -29358 | 1.0 |
| -29359 | 1.0 |
| -29360 | 1.5 |
| -29361 | 1.0 |
| -29362 | 1.0 |
| -29363 | 0.5 |
| -29364 | 1.5 |
| -29365 | 0.5 |
| -29366 | 2.0 |
| 79 PR-29367 | 2.0 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

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TELEX: 043-52597

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Rexdale, Ontario M9W 5X8

ATTN: PROJECT: Eaneas-Soil CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29368 | <0.5 |
| 29369 | 1.0 |
| 29370 | 1.0 |
| 29371 | 1.5 |
| 29372 | 1.0 |
| 29373 | 1.0 |
| 29374 | 0.5 |
| 29375 | 2.5 |
| 29376 | 2.0 |
| 29377 | 1.0 |
| 29378 | 1.5 |
| 29379 | 2.0 |
| 29580 | <0.5 |
| 29581 | 0.5 |
| 29582 | 1.0 |
| 29583 | 0.5 |
| 29584 | 0.5 |
| 29585 | <0.5 |
| 29586 | 0.5 |
| 29587 | 0.5 |
| 29588 | 1.0 |
| 29589 | 1.0 |
| 29590 | 30 |
| 39591 | 1.0 |
| 29592 | 0.5 |
| 29593 | 0.5 |
| 29594 | 1.0 |
| 29595 | 0.5 |
| 29596 | 0.5 |
| 29597 | 0.5 |
| 29598 | 2.5 |
| 29599 | 3.0 |
| 39600 | 2.5 |
| 29601 | 1.0 |
| 29602 | 1.0 |
| 29603 | 1.0 |
| 29604 | 1.5 |
| 29605 | 1.0 |
| 29606 | 1.5 |
| 79 PR 29607 | 1.0 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
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INVOICE NO. 32224

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ATTN: PROJECT: Eneas-Soil CC: E. Sacks

ANALYSED Aug. 2 /79

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29608 | 1.0 |
| 29609 | 0.5 |
| 29610 | 0.5 |
| 29611 | 1.5 |
| 29612 | <0.5 |
| 29613 | 1.5 |
| 29614 | 0.5 |
| 29615 | 0.5 |
| 29616 | 1.0 |
| 29617 | 1.0 |
| 79 PR 29618 | 0.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49752

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division
Ste. 311-215 Carlingview Dr.
Rexdale, Ont.

INVOICE NO. 32232

RECEIVED Aug. 16/79

ATTN: PRINIC-ENEAS-Soil CC. E. Sacks

ANALYSED Aug. 29/79

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR-029624 | 1.0 |
| -0296285 | 2.0 |
| -029626 | 7.5 |
| -029627 | 1.5 |
| 029628 | 0.5 |
| -029629 | 0.5 |
| -029630 | 1.5 |
| -029631 | 0.5 |
| -029632 | 0.5 |
| -029633 | 0.5 |
| -029634 | 1.0 |
| -029635 | 1.0 |
| -029636 | 0.5 |
| -029645 | 1.0 |
| -029646 | 1.0 |
| -029647 | 1.0 |
| -029648 | 1.5 |
| -029649 | 1.5 |
| -029650 | 0.5 |
| -029651 | 1.0 |
| -029652 | 1.0 |
| -029653 | 1.0 |
| 79 PR-029654 | 2.0 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49751

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

INVOICE NO. 32232

RECEIVED Aug. 16/79

ANALYSED Aug. 29/79

ATTN: PRINIC-ENEAS-Soil CC. E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 029380 | 0.5 |
| 029381 | 0.5 |
| 029382 | 1.0 |
| 029383 | 1.0 |
| 029384 | 0.5 |
| 029385 | 0.5 |
| 029386 | 0.5 |
| 029387 | 2.0 |
| 029388 | 1.0 |
| 029389 | 0.5 |
| 029390 | 0.5 |
| 029391 | 0.5 |
| 029392 | 0.5 |
| 029393 | 0.5 |
| 029394 | 0.5 |
| 029395 | 0.5 |
| 029396 | 0.5 |
| 029397 | 1.5 |
| 029398 | 0.5 |
| 029399 | 1.0 |
| 029400 | 1.0 |
| 029401 | 1.5 |
| 029402 | 0.5 |
| 029403 | 1.0 |
| 029404 | 1.0 |
| 029405 | 0.5 |
| 029406 | 0.5 |
| 029407 | 1.0 |
| 029408 | 1.0 |
| 029409 | 0.5 |
| 029410 | 1.0 |
| 029411 | 0.5 |
| 029412 | 0.5 |
| 029413 | 0.5 |
| 029414 | 0.5 |
| 029619 | 0.5 |
| 029620 | 1.5 |
| 029621 | 1.0 |
| 029622 | 0.5 |
| 79 PR 029623 | 0.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49630

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

INVOICE NO. 32165

RECEIVED Aug. 13/79

ANALYSED Aug. 27/79

ATTN: PROJECT: Eneas Soil CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29254 | 1.0 |
| 29255 | 0.5 |
| 29256 | 0.5 |
| 29257 | 1.0 |
| 29258 | 0.5 |
| 29259 | <0.5 |
| 29260 | 1.5 |
| 29261 | 1.0 |
| 29262 | 0.5 |
| 29263 | 1.0 |
| 29264 | 0.5 |
| 29265 | 0.5 |
| 29266 | <0.5 |
| 29267 | 1.0 |
| 29268 | 0.5 |
| 29269 | 0.5 |
| 29270 | <0.5 |
| 29271 | 1.0 |
| 29272 | <0.5 |
| 29273 | <0.5 |
| 29274 | 0.5 |
| 29275 | <0.5 |
| 29276 | <0.5 |
| 29277 | <0.5 |
| 29278 | <0.5 |
| 29279 | <0.5 |
| 29280 | 0.5 |
| 29281 | <0.5 |
| 29282 | 1.0 |
| 29283 | 1.0 |
| 29284 | 6.5 |
| 29285 | 0.5 |
| 29286 | 1.0 |
| 29287 | 0.5 |
| 29288 | 1.5 |
| 29289 | <0.5 |
| 29290 | 1.0 |
| 29291 | 2.0 |
| 29292 | 1.0 |
| 79 PR 29293 | <0.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hank Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49778

INVOICE NO. 32273

RECEIVED Aug. 16/79

ANALYSED Aug. 31/79

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
Ste. 311 - 215 Carlingview Dr.
Rexdale, Ont. M9W 5X8

ATTN: PROJECT: Prinic-Eneas-Soil CC: E. SAcks

| SAMPLE NO. : | PPM U |
|---|---|
| 79PR29451 | 1.5 |
| 29452 | 1.0 |
| 29453 | 1.0 |
| 29454 | 1.0 |
| 79PR29455 | 1.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49777

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
Ste. 311 - 215 Carlingview Dr.
RExdale, Ont. M9W 5X8

INVOICE NO. 32273

RECEIVED Aug. 16/79

ANALYSED Aug. 31/79

ATTN: PROJECT: Prinic-Eneas-Soil CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| √79PR29214 | 0.5 |
| √29215 | 1.0 |
| √29216 | 0.5 |
| √29217 | 1.0 |
| √29415 | 2.0 |
| √29416 | 1.0 |
| √29417 | 1.0 |
| √29418 | 1.0 |
| √29419 | 1.0 |
| √29420 | 0.5 |
| √29421 | 1.0 |
| √29422 | 0.5 |
| √29423 | 1.0 |
| √29424 | 1.0 |
| √29425 | 0.5 |
| √29426 | 2.0 |
| √29427 | 2.0 |
| √29428 | 1.5 |
| √29429 | 1.0 |
| √29430 | 1.0 |
| √29431 | 1.5 |
| 29432 | 2.5 |
| √29433 | 1.5 |
| √29434 | 4.5 |
| √29435 | 2.0 |
| √29436 | 2.0 |
| √29437 | 4.0 |
| √29438 | 3.0 |
| √29439 | 1.5 |
| √29440 | 0.5 |
| √29441 | 0.5 |
| √29442 | 2.0 |
| √29443 | 0.5 |
| √29444 | 1.5 |
| √29445 | 1.0 |
| √29446 | 5.5 |
| √29447 | 1.5 |
| √29448 | 1.5 |
| √29449 | 1.5 |
| √79PR29450 | 1.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49776

INVOICE NO. 32273

RECEIVED Aug. 16/79

ANALYSED Aug. 31/79

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
Ste. 311 - 215 Carlingview Dr.
Rexdale, Ont. M9W 5X8

ATTN: PROJECT: PRINIC-ENEAS-SOIL CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79PR29174 | 1.5 |
| 29175 | 1.0 |
| 29176 | 1.0 |
| 29177 | 1.0 |
| 29178 | 3.0 |
| 29179 | 1.5 |
| 29180 | 1.0 |
| 29181 | 1.0 |
| 29182 | 1.5 |
| 29183 | 1.0 |
| 29184 | 1.5 |
| 29185 | 1.0 |
| 29186 | 1.0 |
| 29187 | 2.0 |
| 29188 | 2.0 |
| 29189 | 1.0 |
| 29190 | 1.0 |
| 29191 | 1.5 |
| 29192 | 2.5 |
| 29193 | 2.0 |
| 29194 | 1.5 |
| 29195 | 2.5 |
| 29196 | 2.0 |
| 29197 | 2.5 |
| 29198 | 1.5 |
| 29199 | 1.5 |
| 29200 | 1.5 |
| 29201 | 1.5 |
| 29202 | 2.0 |
| 29203 | 2.0 |
| 29204 | 2.0 |
| 29205 | 1.0 |
| 29206 | 1.0 |
| 29207 | <0.5 |
| 29208 | 0.5 |
| 29209 | 0.5 |
| 29210 | 0.5 |
| 29211 | 0.5 |
| 29212 | 6.5 |
| 79PR29213 | 1.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50006

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario

INVOICE NO. 32422

RECEIVED Aug. 22/79

ATTN: PROJECT: Prinic-Eneas-Soil Mr. R. Evans

ANALYSED Sept. 7/79

| SAMPLE NO. : | PPM U |
|---|---|
| 79PR 29218 | 0.5 |
| 29219 | 0.5 |
| 29220 | 0.5 |
| 29221 | 1.0 |
| 29222 | 1.0 |
| 29223 | 0.5 |
| 29224 | 0.5 |
| 29225 | 1.5 |
| 29226 | 1.0 |
| 29227 | 0.5 |
| 29228 | <0.5 |
| 29229 | 0.5 |
| 29230 | 0.5 |
| 29231 | 0.5 |
| 29232 | <0.5 |
| 29233 | 0.5 |
| 29234 | 1.0 |
| 29235 | <0.5 |
| 29236 | 0.5 |
| 29237 | <0.5 |
| 29238 | 0.5 |
| 29239 | 1.0 |
| 29240 | 0.5 |
| 29241 | 14.5 |
| 29242 | 10.0 |
| 29243 | 3.0 |
| 29244 | 0.5 |
| 29245 | 1.0 |
| 29246 | <0.5 |
| 29247 | 1.0 |
| 29248 | <0.5 |
| 29249 | 1.5 |
| 20250 | 1.5 |
| 29456 | 1.0 |
| 29457 | 1.0 |
| 29458 | 0.5 |
| 29459 | 0.5 |
| 29460 | 1.0 |
| 29461 | 2.0 |
| 79PR 29462 | 1.0 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hank Biesle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50039

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

INVOICE NO. 32452

RECEIVED Aug. 23/79

ANALYSED Sept. 7/79

ATTN: PRINIC-ENEAS-SOIL R. Evans

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR-60344 | 2.5 |
| -60345 | 2.0 |
| -60346 | 2.0 |
| -60347 | 2.0 |
| -60348 | 2.5 |
| -60349 | 3.5 |
| -60350 | 1.5 |
| -60351 | 2.5 |
| -60352 | 2.0 |
| -60353 | 2.0 |
| -60354 | 3.0 |
| -60355 | 2.5 |
| -60501 | 1.0 |
| -60502 | 1.0 |
| -60503 | 1.0 |
| -60504 | 0.5 |
| -60505 | 1.0 |
| -60506 | 0.5 |
| -60507 | 1.0 |
| -60508 | 2.5 |
| -60509 | 2.0 |
| -60510 | 6.5 |
| -60511 | 2.5 |
| -60512 | 1.5 |
| -60513 | 2.0 |
| -60514 | 2.0 |
| -60515 | 2.0 |
| -60516 | 1.5 |
| -60517 | 1.5 |
| -60518 | 1.5 |
| -60519 | 2.5 |
| -60520 | 2.0 |
| -60521 | 5.0 |
| -60522 | 4.0 |
| -60523 | 4.0 |
| -60524 | 2.0 |
| -60525 | 4.0 |
| -60526 | 26 |
| -60527 | 4.0 |
| 79 PR-60528 | 3.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biellle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50014

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

INVOICE NO. 32432

RECEIVED Aug. 22/79

ATTN: PRINIC-ENEAS-SOIL R. Evans

ANALYSED Sept. 6/79

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR-60278 | 1.5 |
| -60279 | 1.5 |
| -60280 | 1.0 |
| -60281 | 0.5 |
| -60282 | 0.5 |
| -60283 | 0.5 |
| -60284 | 0.5 |
| -60285 | 0.5 |
| -60286 | 1.0 |
| -60287 | 1.0 |
| -60288 | 1.0 |
| -60289 | 1.0 |
| -60290 | 1.5 |
| -60291 | 1.0 |
| -60292 | 1.5 |
| -60293 | 1.5 |
| -60294 | 1.5 |
| -60295 | 1.5 |
| -60296 | 0.5 |
| -60297 | 2.5 |
| -60298 | 2.5 |
| -60299 | 2.0 |
| 79 PR-60300 | 1.5 |

MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50013
INVOICE NO. 32432
RECEIVED Aug. 22/79
ANALYSED Sept. 6/79

TO: Canadian Occidental Petroleum Ltd.,
Mineral Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

ATTN: PRINIC-ENEAS-SOIL R. Evans

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 60029 | < 0.5 |
| 60030 | 0.5 |
| 60031 | < 0.5 |
| 60032 | < 0.5 |
| 60033 | 1.5 |
| 60034 | 0.5 |
| 60035 | 0.5 |
| 60036 | 2.0 |
| 60037 | 0.5 |
| 60038 | 0.5 |
| 60039 | < 0.5 |
| 60040 | 1.0 |
| 60041 | 2.0 |
| 60251 | 0.5 |
| 60252 | 0.5 |
| 60253 | 1.0 |
| 60254 | 1.0 |
| 60255 | 1.5 |
| 60256 | 0.5 |
| 60257 | 1.0 |
| 60258 | 2.5 |
| 60259 | 0.5 |
| 60260 | 1.0 |
| 60261 | 0.5 |
| 60262 | 1.0 |
| 60263 | 0.5 |
| 60264 | 1.5 |
| 60265 | 1.0 |
| 60266 | 1.0 |
| 60267 | 0.5 |
| 60268 | 1.0 |
| 60269 | 1.5 |
| 60270 | 1.0 |
| 60271 | 1.0 |
| 60272 | 0.5 |
| 60273 | 0.5 |
| 60274 | 1.0 |
| 60275 | 1.0 |
| 60276 | 0.5 |
| 79 PR 60277 | 1.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50037

INVOICE NO. 32432

RECEIVED Aug. 23/79

ANALYSED Sept. 7/79

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

ATTN: PRINIC-ENEAS-SOIL R. Evans

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 60042 | 14.0 |
| 60043 | 2.0 |
| 60044 | 4.0 |
| 60045 | 2.0 |
| 60046 | 3.5 |
| 60047 | 4.0 |
| 60048 | 2.5 |
| 60049 | 4.0 |
| 60050 | 2.5 |
| 60051 | 2.5 |
| 60052 | 2.0 |
| 60053 | 2.5 |
| 60054 | 1.5 |
| 60055 | 2.0 |
| 60056 | 1.0 |
| 60057 | 2.0 |
| 60058 | 1.5 |
| 60059 | 3.0 |
| 60060 | 1.0 |
| 60061 | 1.0 |
| 60062 | 1.0 |
| 60063 | 1.5 |
| 60064 | 4.5 |
| 60065 | 1.5 |
| 60066 | 2.0 |
| 60067 | 1.0 |
| 60068 | 3.0 |
| 60069 | 3.0 |
| 60070 | 1.0 |
| 60071 | 1.5 |
| 60072 | 1.5 |
| 60073 | 1.0 |
| 60074 | 1.5 |
| 60075 | 2.0 |
| 60076 | 1.0 |
| 60077 | 1.0 |
| 60078 | 1.5 |
| 60301 | 2.0 |
| 60302 | 1.0 |
| 79 PR 60303 | 4.0 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50038

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

INVOICE NO. 32432

RECEIVED Aug. 23/79

ANALYSED Sept. 7/79

ATTN: PRINIC-ENEAS-SOIL R.Evans

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 60304 | 1.5 |
| 60305 | 1.5 |
| 60306 | 3.5 |
| 60307 | 1.5 |
| 60308 | 1.0 |
| 60309 | 2.0 |
| 60310 | 1.0 |
| 60311 | 2.0 |
| 60312 | 2.0 |
| 60313 | 2.5 |
| 60314 | 1.0 |
| 60315 | 1.5 |
| 60316 | 2.0 |
| 60317 | 1.5 |
| 60318 | 1.0 |
| 60319 | 1.0 |
| 60320 | 1.0 |
| 60321 | 1.0 |
| 60322 | 1.5 |
| 60323 | 1.0 |
| 60324 | 1.0 |
| 60325 | 8.5 |
| 60326 | 5.0 |
| 60327 | 3.0 |
| 60328 | 3.0 |
| 60329 | 4.0 |
| 60330 | 3.5 |
| 60331 | 2.5 |
| 60332 | 3.0 |
| 60333 | 4.5 |
| 60334 | 3.0 |
| 60335 | 1.5 |
| 60336 | 2.0 |
| 60337 | 1.5 |
| 60338 | 3.5 |
| 60339 | 2.0 |
| 60340 | 1.5 |
| 60341 | 2.0 |
| 60342 | 2.5 |
| 79 PR 60343 | 2.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50012

INVOICE NO. 32432

RECEIVED Aug. 22/79

ANALYSED Sept. 6/79

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

ATTN: PRINIC-EANEAS-SOIL R. Evans

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29809 | < 0.5 |
| 29810 | 1.0 |
| 29811 | < 0.5 |
| 29812 | 0.5 |
| 29813 | 0.5 |
| 29814 | < 0.5 |
| 29815 | 1.5 |
| 29816 | 0.5 |
| 29817 | 0.5 |
| 29818 | 0.5 |
| 29819 | 1.0 |
| 29820 | 1.0 |
| 60001 | < 0.5 |
| 60002 | 0.5 |
| 60003 | 0.5 |
| 60004 | 0.5 |
| 60005 | < 0.5 |
| 60006 | 1.0 |
| 60007 | 1.0 |
| 60008 | 1.5 |
| 60009 | 2.5 |
| 60010 | 2.5 |
| 60011 | 1.5 |
| 60012 | 1.0 |
| 60013 | 1.0 |
| 60014 | 1.0 |
| 60015 | 1.0 |
| 60016 | 1.5 |
| 60017 | 1.5 |
| 60018 | 1.0 |
| 60019 | 1.0 |
| 60020 | 0.5 |
| 60021 | 2.0 |
| 60022 | 2.0 |
| 60023 | 1.0 |
| 60024 | 1.5 |
| 60025 | 1.0 |
| 60026 | 1.0 |
| 60027 | 1.0 |
| 79 PR 60028 | 1.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50011

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

INVOICE NO. 32432

RECEIVED Aug. 22/79

ANALYSED Sept. 6/79

ATTN: PRINIC-EANEAS-SOIL R. Evans

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR✓29769 | 1.5 |
| ✓29770 | 1.0 |
| ✓29771 | 0.5 |
| ✓29772 | 2.0 |
| ✓29773 | < 0.5 |
| ✓29774 | 0.5 |
| ✓29775 | 0.5 |
| ✓29776 | < 0.5 |
| ✓29777 | 1.0 |
| ✓29778 | 1.5 |
| ✓29779 | 2.5 |
| ✓29780 | 1.0 |
| ✓29781 | 0.5 |
| ✓29782 | 1.0 |
| ✓29783 | 1.5 |
| ✓29784 | 1.0 |
| ✓29785 | 3.0 |
| ✓29786 | 2.0 |
| ✓29787 | 2.0 |
| ✓29788 | 1.0 |
| ✓29789 | 6.0 |
| ✓29790 | 7.5 |
| ✓29791 | 8.0 |
| ✓29792 | 3.0 |
| ✓29793 | 7.5 |
| ✓29794 | 13.0 |
| ✓29795 | 13.0 |
| ✓29796 | 4.0 |
| ✓29797 | 4.0 |
| ✓29798 | 3.5 |
| ✓29799 | 3.5 |
| ✓29800 | 2.5 |
| ✓29801 | 2.5 |
| ✓29802 | 1.5 |
| ✓29803 | 2.5 |
| ✓29804 | 2.5 |
| ✓29805 | 2.0 |
| ✓29806 | 3.0 |
| ✓29807 | 3.0 |
| 79 PR✓29808 | 2.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50010
INVOICE NO. 32422
RECEIVED Aug. 22/79
ANALYSED Sept. 7/79

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

ATTN: PROJECT: Prinic-Eneas-Soil Mr. R. Evans

| SAMPLE NO. : | PPM U |
|---|---|
| 79PR 29729 | 0.5 |
| 29730 | 0.5 |
| 29731 | <0.5 |
| 29732 | <0.5 |
| 29733 | <0.5 |
| 29734 | 2.0 |
| 29735 | 1.0 |
| 29736 | 1.0 |
| 29737 | 0.5 |
| 29738 | <0.5 |
| 29739 | 0.5 |
| 29740 | <0.5 |
| 29741 | 0.5 |
| 29742 | <0.5 |
| 29743 | <0.5 |
| 29744 | 1.0 |
| 29745 | 1.0 |
| 29746 | 1.0 |
| 29747 | 1.0 |
| 29748 | 1.0 |
| 29749 | 1.0 |
| 29750 | 1.0 |
| 29751 | 1.5 |
| 29752 | 2.0 |
| 29753 | 0.5 |
| 29754 | 0.5 |
| 29755 | 0.5 |
| 29756 | 1.0 |
| 29757 | 2.0 |
| 29758 | 0.5 |
| 29759 | 1.0 |
| 29760 | 1.5 |
| 29761 | 1.0 |
| 29762 | 1.5 |
| 29763 | 1.0 |
| 29764 | 1.0 |
| 29765 | <0.5 |
| 29766 | 0.5 |
| 29767 | 1.0 |
| 79PR 29768 | 2.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50009

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

INVOICE NO. 32422

RECEIVED Aug. 22/79

ANALYSED Sept. 7/79

ATTN: PROJECT: Prinic-Eneas-Soil Mr. R. Evans

| SAMPLE NO. : | PPM U |
|---|---|
| 79PR ✓29689 | 2.5 |
| ✓29690 | 2.0 |
| ✓29691 | 0.5 |
| ✓29692 | <0.5 |
| ✓29693 | <0.5 |
| ✓29694 | 0.5 |
| ✓29695 | <0.5 |
| ✓29696 | <0.5 |
| ✓29697 | 0.5 |
| ✓29698 | 1.0 |
| ✓29699 | 1.0 |
| ✓29700 | 0.5 |
| ✓29701 | 1.0 |
| ✓29702 | 0.5 |
| ✓29703 | 0.5 |
| ✓29704 | <0.5 |
| ✓29705 | 0.5 |
| ✓29706 | 0.5 |
| ✓29707 | 1.0 |
| ✓29708 | 1.0 |
| ✓29709 | 1.0 |
| 29710 | 0.5 |
| ✓29711 | 1.0 |
| ✓29712 | 1.0 |
| ✓29713 | 1.0 |
| ✓29714 | 1.0 |
| ✓29715 | 1.0 |
| ✓29716 | 0.5 |
| ✓29717 | 1.5 |
| ✓29718 | 0.5 |
| ✓29719 | 1.0 |
| ✓29720 | 1.0 |
| ✓29721 | 1.0 |
| ✓29722 | 1.0 |
| ✓29723 | 2.5 |
| ✓29724 | 1.0 |
| ✓29725 | 2.0 |
| ✓29726 | <0.5 |
| ✓29727 | 1.0 |
| 79PR ✓29728 | 1.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hank Bielle

# CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS


## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50008

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

INVOICE NO. 32422

RECEIVED Aug. 22/79

ANALYSED Sept. 7/79

ATTN PROJECT: Prinic-Eneas-Soil Mr. R. Evans

| SAMPLE NO. : | PPM U |
|---|---|
| 79PR 29639 | <0.5 |
| 29640 | <0.5 |
| 29641 | 0.5 |
| 29642 | 1.0 |
| 29643 | <0.5 |
| 29644 | 0.5 |
| 29655 | 0.5 |
| 29656 | 0.5 |
| 29657 | <0.5 |
| 29658 | <0.5 |
| 29659 | <0.5 |
| 29660 | <0.5 |
| 29661 | 0.5 |
| 29662 | 0.5 |
| 29663 | 1.0 |
| 29664 | <0.5 |
| 29665 | <0.5 |
| 29666 | 0.5 |
| 29667 | <0.5 |
| 29668 | 1.5 |
| 29669 | 0.5 |
| 29670 | 2.0 |
| 29671 | <0.5 |
| 29672 | 0.5 |
| 29673 | <0.5 |
| 29674 | <0.5 |
| 29675 | 0.5 |
| 29676 | 1.0 |
| 29677 | 1.0 |
| 29678 | 2.0 |
| 29679 | 0.5 |
| 29680 | 1.0 |
| 29681 | <0.5 |
| 29682 | 0.5 |
| 29683 | 1.0 |
| 29684 | 1.0 |
| 29685 | 1.0 |
| 29686 | 1.0 |
| 29687 | 1.5 |
| 79PR 29688 | 1.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50007

INVOICE NO. 32422

RECEIVED Aug. 22/79

ANALYSED Sept. 7/79

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

ATTN: PROJECT: Prinic-Eneas-Soil Mr. R. Evans

| SAMPLE NO. : | PPM U |
|---|---|
| 79PR ✓29463 | 0.5 |
| ✓29464 | 1.0 |
| ✓29465 | 0.5 |
| ✓29466 | 0.5 |
| ✓29467 | 0.5 |
| ✓29468 | <0.5 |
| ✓29469 | 1.0 |
| ✓29470 | 3.0 |
| ✓29471 | 0.5 |
| ✓29472 | 0.5 |
| ✓29473 | 0.5 |
| ✓29474 | 0.5 |
| ✓29475 | <0.5 |
| ✓29476 | <0.5 |
| ✓29477 | <0.5 |
| ✓29478 | <0.5 |
| ✓29479 | <0.5 |
| ✓29480 | 0.5 |
| ✓29481 | 1.0 |
| ✓29482 | 0.5 |
| ✓29483 | <0.5 |
| 29484 | <0.5 |
| ✓29485 | <0.5 |
| ✓29486 | <0.5 |
| ✓29487 | <0.5 |
| ✓29488 | 0.5 |
| ✓ 29489 | 0.5 |
| ✓29490 | 0.5 |
| ✓29491 | 0.5 |
| ✓29492 | 0.5 |
| ✓29493 | 0.5 |
| ✓29494 | 0.5 |
| ✓29495 | <0.5 |
| ✓29496 | 0.5 |
| ✓29497 | 1.0 |
| ✓29498 | 0.5 |
| ✓29499 | 1.0 |
| ✓ 29500 | 1.0 |
| ✓29637 | 0.5 |
| 79PR ✓29638 | 0.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO.: 49632

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

INVOICE NO. 32165

RECEIVED Aug. 13/79

ANALYSED Aug. 27/79

ATTN: PROJECT: Eneas Soil CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29334 | 1.5 |
| 29335 | 20.5 |
| 29336 | 1.0 |
| 29337 | 0.5 |
| 29338 | 0.5 |
| 29339 | 0.5 |
| 29340 | 2.0 |
| 29341 | <0.5 |
| 29342 | 1.5 |
| 29343 | 1.0 |
| 29501 | <0.5 |
| 29502 | 1.0 |
| 29503 | 1.5 |
| 29504 | 0.5 |
| 29505 | <0.5 |
| 29506 | 1.0 |
| 29507 | 0.5 |
| 29508 | 0.5 |
| 29509 | 1.0 |
| 29510 | 1.0 |
| 29511 | 1.5 |
| 29512 | 2.5 |
| 29513 | 1.0 |
| 29514 | <0.5 |
| 29515 | 1.0 |
| 29516 | 0.5 |
| 29517 | 1.0 |
| 29518 | 1.0 |
| 29519 | <0.5 |
| 29520 | 1.0 |
| 29521 | 2.0 |
| 29522 | <0.5 |
| 29523 | 0.5 |
| 29524 | <0.5 |
| 29525 | 1.0 |
| 29526 | <0.5 |
| 29527 | 0.5 |
| 29528 | <0.5 |
| 29529 | 0.5 |
| 79 PR 29530 | 1.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49631

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

INVOICE NO. 32165

RECEIVED Aug. 13/79

ANALYSED Aug. 27/79

ATTN: PROJECT: Eneas Soil CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29294 | <0.5 |
| 29295 | 0.5 |
| 29296 | 0.5 |
| 29297 | 1.0 |
| 29298 | <0.5 |
| 29299 | 1.0 |
| 29300 | 0.5 |
| 29301 | 0.5 |
| 29302 | 1.0 |
| 29303 | 1.0 |
| 29304 | 0.5 |
| 29305 | 0.5 |
| 29306 | 0.5 |
| 29307 | <0.5 |
| 29308 | 0.5 |
| 29309 | <0.5 |
| 29310 | 1.5 |
| 29311 | 0.5 |
| 29312 | 2.0 |
| 29313 | 0.5 |
| 29314 | 0.5 |
| 29315 | <0.5 |
| 29316 | <0.5 |
| 29317 | 1.0 |
| 29318 | 0.5 |
| 29319 | 0.5 |
| 29320 | 1.0 |
| 29321 | 0.5 |
| 29322 | 1.0 |
| 29323 | 1.0 |
| 29324 | <0.5 |
| 29325 | <0.5 |
| 29326 | 2.0 |
| 29327 | <0.5 |
| 29328 | 0.5 |
| 29329 | <0.5 |
| 29330 | 1.5 |
| 29331 | 0.5 |
| 29332 | 0.5 |
| 79 PR 29333 | 1.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49633

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 carlingview Dr.,
Rexdale, Ontario M9W 5X8

INVOICE NO. 32165

RECEIVED Aug. 13/79

ANALYSED Aug. 27/79

Soil

ATTN: PROJECT: Eneas CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29531 | 1.0 |
| 29532 | 1.0 |
| 29533 | 1.5 |
| 29534 | 0.5 |
| 29535 | 17.5 |
| 29536 | 11.5 |
| 29537 | 1.0 |
| 29538 | 1.0 |
| 29539 | 1.0 |
| 29540 | <0.5 |
| 29541 | 2.0 |
| 29542 | 1.0 |
| 29543 | 7.0 |
| 29544 | <0.5 |
| 29545 | 1.5 |
| 29546 | 1.0 |
| 29547 | 1.0 |
| 29548 | 0.5 |
| 29549 | 1.5 |
| 29550 | 1.0 |
| 29551 | 1.0 |
| 29552 | 1.0 |
| 29553 | 0.5 |
| 29554 | 1.5 |
| 29555 | 0.5 |
| 29556 | 1.5 |
| 29557 | 1.0 |
| 29558 | <0.5 |
| 29559 | 0.5 |
| 29560 | 0.5 |
| 29561 | 0.5 |
| 29562 | <0.5 |
| 29563 | 0.5 |
| 29564 | 0.5 |
| 29565 | 0.5 |
| 29566 | <0.5 |
| 29567 | <0.5 |
| 29568 | 0.5 |
| 29569 | 1.5 |
| 79 PR 29570 | 0.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

Copies for Mr. Sacks



212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49634

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

INVOICE NO. 32165

RECEIVED Aug. 13/79

ANALYSED Aug. 27/79

ATTN: PROJECT: Eneas Soil
CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29571 | <0.5 |
| 29572 | 1.0 |
| 29573 | <0.5 |
| 29574 | 0.5 |
| 29575 | 1.0 |
| 29576 | 0.5 |
| 29577 | <0.5 |
| 29578 | 0.5 |
| 79 PR 29579 | 1.0 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49629

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

INVOICE NO. 32165

RECEIVED Aug. 13/79

ANALYSED Aug. 27/79

ATTN: PROJECT: Eneas Soil CC: E. Sacks

| SAMPLE NO. : | PPM U |
|---|---|
| 79 PR 29041 | 0.5 |
| 29042 | <0.5 |
| 29043 | 1.0 |
| 20044 | 1.5 |
| 20945 | 1.0 |
| 29046 | 1.5 |
| 29047 | 0.5 |
| 29048 | 1.0 |
| 29049 | 1.5 |
| 29050 | 0.5 |
| 29051 | 0.5 |
| 29052 | 1.5 |
| 29053 | <0.5 |
| 29054 | 1.0 |
| 29055 | 0.5 |
| 29056 | <0.5 |
| 29057 | <0.5 |
| 29058 | <0.5 |
| 29059 | 1.5 |
| 29060 | 0.5 |
| 29061 | 1.0 |
| 29062 | <0.5 |
| 29063 | 1.0 |
| 29064 | 0.5 |
| 29065 | 1.0 |
| 29066 | 0.5 |
| 29067 | 1.0 |
| 29068 | 1.0 |
| 29069 | 1.0 |
| 29070 | 0.5 |
| 29071 | 1.5 |
| 29072 | 0.5 |
| 29073 | 0.5 |
| 29074 | 1.0 |
| 29075 | 1.0 |
| 29076 | 1.0 |
| 29077 | <0.5 |
| 29251 | 1.0 |
| 29252 | 1.5 |
| 79 PR 29253 | 0.5 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50474

INVOICE NO. 32730

RECEIVED 33132 ~~Sept. 7/79~~ Th

ANALYSED Sept. 20/79

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
311 - 215 Carlingview Drive
Rexdale, Ontario

ENEAS ROCKS

ATTN: cc: E. Sacks

| SAMPLE NO. : | PPM U | PPM Th |
|---|---|---|
| 29901 | 2.0 | 8 |
| 29902 | 0.5 | 2 |
| 29903 | 1.0 | 2 |
| 29904 | < 0.5 | 3 |
| 29905 | < 0.5 | < 1 |
| 29906 | 0.5 | 5 |
| 29907 | 1.0 | 6 |
| 29908 | 0.5 | 6 |
| 29909 | < 0.5 | 2 |
| 29910 | 0.5 | 3 |
| 29911 | < 0.5 | 11 |
| 29912 | 0.5 | 15 |
| 29913 | 0.5 | 10 |
| 29914 | 0.5 | 8 |
| 29915 | < 0.5 | 4 |
| 29916 | < 0.5 | 3 |
| 29917 | < 0.5 | 12 |
| 29918 | 1.0 | 12 |
| 29919 | 0.5 | 10 |
| 29920 | < 0.5 | 3 |
| 29921 | < 0.5 | 2 |
| 29922 | 0.5 | 3 |
| 29923 | 0.5 | 12 |
| 29924 | < 0.5 | 3 |
| 29925 | 1.0 | 46 |
| 29926 | 0.5 | 11 |
| 29927 | 1.0 | 22 |
| 29928 | 2.0 | 25 |
| 29929 | 1.0 | 10 |
| 29930 | 0.5 | 5 |
| 29931 | < 0.5 | 10 |
| 29932 | 1.5 | 15 |
| 29933 | 1.5 | 10 |
| 29934 | < 0.5 | 7 |
| 29935 | < 0.5 | 4 |
| 29936 | 0.5 | 6 |
| 29937 | 1.0 | 16 |
| 29938 | 0.5 | 8 |
| 29939 | 0.5 | 9 |
| 29940 | 0.5 | 9 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50475

INVOICE NO. 32730

RECEIVED 33122 Th Sept. 7/79

ANALYSED Sept. 20/79

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
311 - 215 Carlingview Drive
Rexdale, Ontario

ENEAS ROCKS

ATTN: cc: E. Sacks

| SAMPLE NO. : | PPM U | PPM Th |
|---|---|---|
| 29941 | 2.5 | 14 |
| 29942 | 1.5 | 11 |
| 29943 | 2.0 | 8 |
| 29944 | 2.0 | 8 |
| 29945 | 3.0 | 7 |
| 29946 | 2.0 | 8 |
| 29947 | 2.5 | 18 |
| 29948 | 1.5 | 11 |
| 29949 | 5.0 | 6 |
| 29950 | 2.5 | 8 |
| 29951 | 1.0 | 2 |
| 29952 | 1.0 | < 1 |
| 29953 | 3.0 | 6 |
| 29954 | 3.0 | 7 |
| 29955 | 0.5 | < 1 |
| 29956 | 0.5 | < 1 |
| 29957 | 3.0 | 6 |
| 29958 | 1.0 | 5 |
| 29959 | 1.5 | 7 |
| 29960 | 3.5 | 13 |
| 29961 | 6.5 | 35 |
| 29962 | 2.0 | 23 |
| 29963 | 3.0 | 9 |
| 29964 | 3.0 | 7 |
| 29965 | 3.0 | 23 |
| 29966 | 2.5 | 5 |
| 29967 | 4.0 | 17 |
| 29968 | 3.0 | 5 |
| 29969 | 2.0 | 4 |
| 29970 | 0.5 | 1 |
| 29971 | 1.5 | 8 |
| 29972 | 3.0 | 11 |
| 29973 | 2.0 | 5 |
| 29974 | 2.0 | 9 |
| 29975 | 1.5 | 6 |
| 29976 | 3.0 | 10 |
| 29977 | 1.5 | 9 |
| 29978 | 1.0 | 7 |
| 29979 | 3.0 | 11 |
| 29980 | 2.0 | 13 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50476

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
311 - 215 Carlingview Drive
Rexdale, Ontario

INVOICE NO. 32730

RECEIVED 33132 - Th
Sept. 7/79

KNEAS ROCKS

ANALYSED Sept. 20/79

ATTN: CC: E. Sacks

| SAMPLE NO. : | PPM U | PPM Th |
|---|---|---|
| 29981 | 2.0 | 11 |
| 29982 | 2.5 | 8 |
| 29983 | 2.0 | 6 |
| 29984 | 2.0 | 9 |
| 29985 | 2.5 | 5 |
| 29986 | 4.0 | 14 |
| 29987 | 1.0 | 6 |
| 29988 | 2.5 | 10 |
| 29989 | 4.0 | 26 |
| 29990 | 2.0 | 6 |
| 29991 | 1.0 | 5 |
| 29992 | 2.0 | 5 |
| 29851 | 2.0 | 6 |
| 29852 | 3.5 | 6 |
| 29853 | 3.0 | 7 |
| 29854 | 2.0 | 7 |
| 29855 | 2.0 | 3 |
| 29856 | 1.5 | 2 |
| 29857 | 1.5 | 4 |
| 29858 | 3.0 | 30 |
| 29859 | 3.5 | 13 |
| 29860 | 2.5 | 16 |
| 29861 | 1.5 | 5 |
| 29862 | 3.0 | 5 |
| 29863 | 2.5 | 5 |
| 29864 | 3.0 | 8 |
| 29865 | 2.5 | 10 |
| 29866 | 3.0 | 17 |
| 29867 | 3.0 | 23 |
| 29868 | 2.5 | 9 |
| 29869 | 3.5 | 23 |
| 29870 | 3.0 | 15 |
| 29871 | 2.0 | 6 |
| 29872 | 3.5 | 16 |
| 29873 | 2.0 | 10 |
| 29874 | 1.5 | 8 |
| 29875 | 1.5 | 6 |
| 29876 | 2.5 | 24 |
| 29877 | 1.5 | 9 |
| 29878 | 1.5 | 7 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [redacted] 984-0221
AREA CODE: 604
TELEX: 043-52597

# CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50477

INVOICE NO. 32730

RECEIVED 33132 - Th Sept. 7/79

ANALYSED Sept. 20/79

TO: Canadian Occidental Petroleum Ltd.
Minerals Division
311 - 215 Carlingview Drive
Rexdale, Ontario

ATTN: cc: E. Sacks

ENEAS ROCKS

| SAMPLE NO. : | PPM U | PPM Th |
|---|---|---|
| 29879 | 1.5 | 6 |
| 29880 | 2.0 | 9 |
| 29881 | 2.0 | 5 |
| 29882 | 12.5 | 190 |
| 29883 | 2.0 | 13 |
| 29884 | 2.5 | 8 |
| 29885 | 2.5 | 5 |
| 29886 | 1.5 | 15 |
| 29887 | 1.5 | 6 |
| 29888 | 1.5 | 6 |
| 29889 | 1.0 | 4 |
| 29890 | 35 | 6 |
| 29891 | 2.5 | 5 |
| 29892 | 1.5 | 5 |
| 29893 | 1.5 | 3 |
| 29894 | 2.0 | 5 |
| 29895 | 10.5 | 72 |
| 29896 | 1.5 | 5 |
| 29897 | 3.5 | 7 |

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Biddle

# X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J1

## CERTIFICATE OF ANALYSIS

## INVOICE 4181 REF. FILE 2372-L2

TO. CANADIAN OCCIDENTAL PETROLEUM LTD.,
ATTN: MR. SACKS,
SUITE 311 - 215 CARLINGVIEW DR.,
REXDALE, ONTARIO.
M9W 5X8

3 ROCKS SUBMITTED ON 9-NOV-79

WERE ANALYSED AS FOLLOWS:

| | UNITS | METHOD | DETECTION LIMIT |
|---|---|---|---|
| U | PPM | WET | 0.500 |
| TH | PPM | NA | 1.000 |

DATE 03-DEC-79

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY

J. H. OPDEBEECK

| SAMPLE | U PPM | TH PPM |
|---|---|---|
| 79PR29858RA | 77.0 | 1190 |
| 79PR29858RB | 54.0 | 750 |
| 79PR29858RC | 47.0 | 790 |

APPENDIX IIa - U and Th Contents and U/Th Ratios By Rock Type

ENEAS Claims

Unit 1a - hbDi

| Sample No. | ppm U | ppm Th | U/Th |
|---|---|---|---|
| 79PR29854 | 2 | 7 | 0.3 |
| 856 | 1.5 | 2 | 0.8 |
| 857 | 1.5 | 4 | 0.4 |
| 29901 | 2 | 8 | 0.3 |
| 902 | 0.5 | 2 | 0.3 |
| 903 | 1 | 2 | 0.5 |
| 904 | < 0.5 | 3 | < 0.2 |
| 906 | 0.5 | 5 | 0.1 |
| 909 | < 0.5 | 2 | < 0.3 |
| 910 | 0.5 | 3 | 0.2 |
| 914 | 0.5 | 8 | 0.1 |
| 920 | < 0.5 | 3 | < 0.2 |
| 951 | 1 | 2 | 0.5 |
| 952 | 1 | 1 | 1.0 |
| 953 | 3 | 6 | 0.5 |
| 954 | 3 | 7 | 0.4 |
| 955 | 0.5 | < 1 | < 0.5 |
| 956 | 0.5 | < 1 | < 0.5 |
| 957 | 3 | 6 | 0.5 |
| 958 | 1 | 5 | 0.2 |
| - | | | - |
| MEAN | 1.2 | 3.9 | 0.4 |

Unit 1b - hDi

| Sample No. | ppm U | ppm Th | U/Th |
|---|---|---|---|
| 79PR29869 | 3.5 | 23 | 0.15 |
| 871 | 2 | 6 | 0.33 |
| 872 | 3.5 | 16 | 0.35 |
| 877 | 1.5 | 9 | 0.17 |
| 878 | 1.5 | 7 | 0.21 |
| 879 | 1.5 | 6 | 0.25 |
| 881 | 2 | 5 | 0.40 |
| 885 | 2.5 | 5 | 0.50 |
| 887 | 1.5 | 6 | 0.25 |
| 893 | 1.5 | 3 | 0.50 |
| 894 | 2 | 5 | 0.40 |
| 896 | 1.5 | 5 | 0.30 |
| 905 | < 0.5 | < 1 | 0.50 |
| 907 | 1 | 6 | 0.17 |
| 908 | 0.5 | 6 | 0.08 |
| 915 | < 0.5 | 4 | < 0.13 |
| 916 | < 0.5 | 3 | < 0.17 |
| 930 | 0.5 | 5 | 0.10 |
| 932 | 1.5 | 15 | 0.10 |
| 943 | 2 | 8 | 0.25 |
| 944 | 2 | 8 | 0.25 |
| 945 | 3 | 7 | 0.43 |
| 968 | 3 | 5 | 0.60 |
| 970 | 3 | 15 | 0.20 |
| 976 | 2.5 | 24 | 0.10 |
| 983 | 2 | 13 | 0.15 |
| 984 | 2.5 | 8 | 0.31 |
| 985 | 2.5 | 5 | 0.50 |
| MEAN | 1.9 | 8.2 | 0.28 |

UNIT 2a - hbMz

| Sample No. | ppm U | ppm Th | U/Th |
|---|---|---|---|
| 79PR29912 | 0.5 | 15 | 0.03 |
| 917 | <0.5 | 12 | <0.04 |
| 919 | 0.5 | 10 | 0.05 |
| 921 | <0.5 | 2 | <0.25 |
| 922 | 0.5 | 3 | 0.17 |
| 923 | 0.5 | 12 | 0.04 |
| 924 | <0.5 | 3 | 0.17 |
| 925 | 1 | 46 | 0.02 |
| 926 | 0.5 | 11 | 0.05 |
| 927 | 1 | 22 | 0.05 |
| 928 | 2 | 25 | 0.08 |
| 929 | 1 | 10 | 0.10 |
| 965 | 3 | 23 | 0.13 |
| MEAN | 0.9 | 14.8 | 0.09 |

UNIT 2b - hMz

| Sample No. | ppm U | ppm Th | U/Th |
|---|---|---|---|
| 79PR29855 | 2 | 3 | 0.67 |
| 860 | 2.5 | 2.5 | 0.16 |
| 866 | 3 | 17 | 0.18 |
| 873 | 2 | 10 | 0.20 |
| 874 | 1.5 | 8 | 0.19 |
| 875 | 1.5 | 6 | 0.25 |
| 876 | 2.5 | 24 | 0.10 |
| 880 | 2.0 | 9 | 0.22 |
| 884 | 2.5 | 8 | 0.31 |
| 886 | 1.5 | 15 | 0.10 |
| 888 | 1.5 | 6 | 0.25 |
| 890 | 35 | 6 | 5.80 |
| 891 | 2.5 | 5 | 0.50 |
| 892 | 1.5 | 5 | 0.30 |
| 895 | 10.5 | 72 | 0.15 |
| 897 | 3.5 | 7 | 0.50 |
| 918 | 1 | 12 | 0.08 |
| 933 | 1.5 | 10 | 0.15 |
| 934 | <0.5 | 7 | <0.07 |
| 935 | <0.5 | 4 | <0.13 |
| 936 | 0.5 | 6 | 0.08 |
| 939 | 0.5 | 9 | 0.06 |
| 940 | 0.5 | 9 | 0.06 |
| 950 | 2.5 | 8 | 0.31 |
| 959 | 1.5 | 7 | 0.21 |
| 966 | 2.5 | 5 | 0.50 |
| 967 | 4 | 17 | 0.24 |
| 969 | 2 | 4 | 0.50 |
| 972 | 3.5 | 16 | 0.22 |
| 974 | 1.5 | 8 | 0.19 |
| 975 | 1.5 | 6 | 0.25 |
| 980 | 2 | 9 | 0.22 |
| 982 | 12.5 | 190 | 0.07 |
| 986 | 1.5 | 15 | 0.01 |
| 987 | 1.5 | 6 | 0.25 |
| 988 | 1.5 | 6 | 0.25 |
| 989 | 1 | 4 | 0.25 |
| 990 | 2 | 6 | 0.33 |
| 991 | 2.5 | 5 | 0.50 |
| 992 | 1.5 | 5 | 0.30 |
| MEAN | 3.1 | 14.8 | 0.38 |

UNIT 3a - hbQM

| Sample No. | ppm U | ppm Th | U/Th |
|---|---|---|---|
| 79PR29911 | <0.5 | 11 | <0.05 |
| 913 | 0.5 | 10 | 0.05 |
| 937 | 1 | 16 | 0.06 |
| 938 | 0.5 | 8 | 0.06 |
| 858 | 3 | 30 | 0.10 |
| 942 | 1.5 | 11 | 0.14 |
| - | | | - |
| MEAN | 1.2 | 14.3 | 0.08 |

UNIT 3b - hQM

| Sample No. | ppm U | ppm Th | U/Th |
|---|---|---|---|
| 79PR29851 | 2 | 6 | 0.33 |
| 852 | 3.5 | 6 | 0.58 |
| 853 | 3 | 7 | 0.43 |
| 859 | 3.5 | 13 | 0.27 |
| 862 | 3 | 5 | 0.60 |
| 863 | 2.5 | 5 | 0.50 |
| 864 | 3 | 8 | 0.38 |
| 865 | 2.5 | 10 | 0.25 |
| 867 | 3 | 23 | 0.13 |
| 868 | 2.5 | 9 | 0.28 |
| 870 | 3 | 15 | 0.20 |
| 882 | 12.5 | 190 | 0.07 |
| 883 | 2 | 13 | 0.15 |
| 931 | <0.5 | 10 | <0.05 |
| 941 | 2.5 | 44 | 0.06 |
| 946 | 2.0 | 8 | 0.25 |
| 947 | 2.5 | 18 | 0.14 |
| 948 | 1.5 | 11 | 0.14 |
| 949 | 5 | 16 | 0.31 |
| 960 | 3.5 | 13 | 0.27 |
| 961 | 6.5 | 35 | 0.19 |
| 962 | 2 | 23 | 0.09 |
| 963 | 3 | 9 | 0.33 |
| 964 | 3 | 7 | 0.43 |
| 977 | 1.5 | 9 | 0.17 |
| 978 | 1.5 | 7 | 0.21 |
| 979 | 1.5 | 6 | 0.25 |
| 981 | 2 | 5 | 0.4 |
| - | | | - |
| MEAN | 3.0 | 18.9 | 0.27 |

UNIT 4 - Ap

| Sample No. | ppm U | ppm Th | U/Th |
|---|---|---|---|
| 79PR29861 | 1.5 | 5 | 0.30 |
| 889 | 1 | 4 | 0.25 |
| - | | | - |
| MEAN | 1.3 | 4.5 | 0.28 |

# APPENDIX IIb

## THIN SECTION REPORTS

Specimen No. - 79 PR 29861R

Rock name - sericitised and argillised quartz-feldspar porphyry

Mineralogy - phenocrysts - plagioclase (altered)
quartz

groundmass - quartz
K-feldspar
plagioclase
biotite

accessory - magnetite
apatite, zircon

secondary - sericite
argillaceous material
chlorite

Description - This rock is an acid porphyry, composed of numerous medium grained, altered, plagioclase phenocrysts and less abundant phenocrysts of quartz, set in a very fine grained groundmass composed predominantly of quartz and acid feldspar. A low proportion of tiny biotite flakes is scattered through the groundmass.

Plagioclase phenocrysts are very abundant, up to about 3 mm long, and are now only shadowily discernible through a mixture of alteration products. They were probably originally subhedral in general form, with irregular margins in detail. They are now covered by a dense mixture of sericite and argillaceous material, so that the original composition of the plagioclase cannot be determined. Many of the plagioclase phenocrysts contain numerous small inclusions of quartz, while others contain irregular patches of K-feldspar, often with microcline twinning. Occasional small patches of carbonate also occur in a few plagioclase phenocrysts. Quartz phenocrysts are relatively sparse. They are up to about 3 mm across, and are euhedral to subhedral in form. They contain occasional small patches of groundmass material.

The groundmass is allotriomorphic granular, with an even grained interlocking mosaic texture and a grain size of about 0.04 mm on average. It is composed of a mixture of quartz, K-feldspar and acid plagioclase. Owing to the fine grain size, it is difficult to estamate relative proportions of these minerals. However, quartz appears to be predominant, with K-feldspar next in abundance, and plagioclase comparatively sparse. K-feldspar is fresh, and sometimes shows microcline twinning. Plagioclase often shows a light dusting by argillaceous material in the groundmass. The groundmass also

(continued overleaf)

Specimen No. - 79 PR 29861R (continued)

contains a low proportion (perhaps about 10%) of biotite, which occurs mostly in the form of evenly disseminated tiny flakes of finer grain than the quartzo-feldspathic mixture. The biotite occasionally forms loose clots of slightly larger flakes, which represent the dark spots visible in the hand specimen. Most of the biotite flakes are quite fresh, but some are partly to completely chloritised. Scattered through the rock there are occasional compact grains of magnetite, which are somewhat larger than the average grain size of the groundmass. Small accessory crystals of apatite are also quite noticeable, while crystals of zircon were extremely rarely present.

Specimen No. - 79 PR 29874R

Rock name - fresh hornblende-biotite granite

Mineralogy - essential - plagioclase - 35%
K-feldspar - 25%
quartz - 20%
hornblende - 10%
biotite - 5%

accessory - magnetite
sphene
epidote
apatite
zircon

secondary - sericite
chlorite

Description - This rock is medium grained, hypidiomorphic granular, non-porphyritic. It consists of an interlocking mosaic of subhedral, tabular, crystals of plagioclase intermingled with anhedra of quartz and K-feldspar, and with a relatively low proportion of hornblende and biotite. The rock is essentially fresh. It shows no sign of foliation.

Plagioclase is the predominant mineral in this rock. It occurs in tabular subhedra, and in anhedra, which average about 2-3 mm in length. Most crystals are about andesine-oligoclase $An_{30}$ in composition, but occasional crystals are slightly zoned from cores of sodic andesine to calcic oligoclase. Most crystals are essentially fresh, but usually contain a few tiny flakes of sericite. Occasional small clots of biotite or hornblende inclusions occur in some plagioclase crystals. K-feldspar occurs in anhedra of irregular form, up to about 4 mm across. These are untwinned, usually non-perthitic, and sometimes slightly strained looking. They are extremely fresh, and sometimes contain occasional plagioclase inclusions. There is very occasional slight development of myrmekite where plagioclase abuts onto K-feldspar. Quartz in this rock occurs in patches of interlocking anhedra, which are usually somewhat smaller that the feldspar crystals, and interstitial to them. The quartz is unstrained, or only very slightly strained.

Hornblende in this rock forms crystals which range from compact subhedra to very ragged anhedra, often with clusters of very small crystals fringing the larger crystals. Small crystals of biotite often occur in inclusions within, or bordering, hornblende crystals. The hornblende is very fresh, and deep green in colour. Very rarely, small patches of isotropic chlorite are associated with hornblende crystals. In addition to occasional inclusions of plagioclase, the hornblende often contains inclusions of, or is associated with, accessory amounts of magnetite, sphene, and apatite. Occasionally a few small

(continued overleaf)

Specimen No. - 79 PR 29874R (continued)

grains of epidote are associated with magnetite and/or sphene crystals. This is not clearly of secondary origin, and may well be primary, at least in part. Biotite flakes range in size from quite large (about 3.5 mm across) down to very tiny. The larger flakes tend to occur by themselves, rather than in association with hornblende, and are themselves fringed by numerous tiny biotite flakes. The biotite has a greenish brown colour, and is extremely fresh. It often contains scattered small inclusions of sphene.
The only other mineral noted in this rock was zircon, in extremely rare tiny anhedra.

Specimen No. - 79 PR 29884R

Rock name - very slightly altered quartz monzodiorite

Mineralogy - essential - plagioclase - 40%
K-feldspar - 15%
quartz - 15%
hornblende - 15%
biotite - 10%

accessory - magnetite
sphene
apatite

secondary - sericite
epidote and clinozoisite
chlorite

Description - This rock is medium grained, hypidiomorphic granular, non-porphyritic, with an average grain size around 2 mm. It is non-foliated, and predominantly fresh, but does contain occasional small spots of relatively dense alteration in plagioclase. It is composed predominantly of tabular subhedra of plagioclase, surrounded by interstitial anhedra of K-feldspar and quartz, and with scattered subhedra and anhedra of hornblende and biotite.

The plagioclase in this rock occurs in tabular subhedra of rather variable size. These range from unzoned to quite strongly zoned, the composition ranging from intermediate andesine $An_{40}$ in the crystal cores to about calcic oligoclase $An_{28}$ at the margins. Most plagioclase crystals are quite fresh, the only alteration being a very slight flecking by tiny crystals of sericite. However occasional crystals contain patches of intense alteration, composed of a mixture of sericite and clinozoisite, or in some cases sericite and epidote. The most intense clots of alteration are adjacent to a hairline fracture which cuts across the thin section, but a few other clots occur which cannot be clearly associated with such a feature. K-feldspar forms irregularily shaped anhedra, interstitial to the plagioclase. These are usually untwinned, although occasional crystals show very fine microcline twinning. Some crystals are very finely perthitic, while many show rather shadowy extinction patterns, indicating the presence of some strain. Occasional plagioclase crystals also show some flexing of twin lamellae. The larger K-feldspar crystals often contain one or two inclusions of quartz and/or plagioclase. There is also a slight development of myrmekite where plagioclase abuts onto K-feldspar. K-feldspar is typically very fresh.

(continued overleaf)

Specimen No. - 79 PR 29884R (continued)

Hornblende occurs in this rock in crystals which range from compact subhedra to irregularily shaped, rather ragged looking, anhedra. It is a deep green variety, and tends to occur in clusters of crystals, often in association with biotite flakes. Accessory amounts of magnetite, apatite and sphene tend to be associated with, or enclosed within, hornblende and biotite crystals. Hornblende is typically very fresh. Biotite flakes range from quite large to very tiny, the smaller ones often being enclosed within hornblende. They area deep brown variety, and usually fresh. Occasional flakes show slight chloritisation, the chlorite sometimes being accompanied by a little epidote. No increase in chloritisation is evident near the fracture which has associated alteration of feldspar. Quartz in this rock forms small, irregularily shaped, anhedra and patches of anhedra. These are often quite strongly strained looking.

Specimen No. - 79 PR 29917R

Rock name - fresh hornblende-biotite granodiorite

Mineralogy - essential - plagioclase - 40%
K-feldspar - 20%
quartz - 20%
hornblende - 10%
biotite - 5%

accessory - magnetite
sphene
apatite
zircon

secondary - sericite
chlorite
epidote

Description - This rock is medium grained, hypidiomorphic granular, non-porphyritic, with an average grain size of around 2 mm. It is non-foliated, and is essentially fresh. It is composed predominantly of tabular subhedra of plagioclase interspersed by subsidiary amounts of quartz and K-feldspar anhedra, and by a relatively low proportion of hornblende and biotite. The mineralogy and texture are typically granodioritic.

The plagioclase in this rock ranges from tabular subhedra to irregularily shaped anhedra. The composition is usually about andesine-oligoclase $An_{30}$, but some crystals show slight zoning, from sodic andesine to calcic oligoclase. The plagioclase is to all intents and purposes fresh, although most crystals contain a very slight flecking by tiny crystals of sericite. Occasional small clots of sericitic alteration are present, sometimes accompanied by a little epidote. K-feldspar occurs in irregularily shaped anhedra, which are untwinned, often very finely perthitic, and sometimes contain small inclusions of plagioclase. The K-feldspar is typically very fresh. Small patches of myrmekite often occur where plagioclase abuts onto K-feldspar. Quartz tends to occur in patches of interlocking mosaic, consisting of several irregularily shaped anhedra. The crystals are usually slightly strained looking. Hornblende in this rock occurs in crystals which range in form from compact subhedra to very ragged anhedra. The hornblende is a deep green variety. Some crystals occur independently of biotite; others are intimately associated with biotite, with small flakes of biotite occurring as abundant inclusions within, and rimming, the hornblende. The hornblende is typically fresh, but some crystals contain small patches of chlorite, often accompanied by a little epidote. Biotite falkes occur both as relatively large, isolated, crystals, and in close association with hornblende as described above. It is a deep brown variety, usually

(continued overleaf)

Specimen No. - 79 PR 29917R (continued)

forms compact flakes, is typically very fresh, and often contains small inclusions of sphene. Very occasional flakes show traces of chloritisation.

Accessory amounts of magnetite, sphene, and apatite tend to occur in close association with the ferromagnesian minerals. Extremely rare tiny crystals of zircon were also noted.

Specimen No. - 79 PR 29924R

Rock name - amphibolitised porphyritic basalt

Mineralogy - essential - hornblende
plagioclase
biotite
sericite
epidote and clinozoisite

accessory - magnetite
sphene

Description - This rock appears to have been originally a porphyritic basalt, with medium grained phenocrysts of plagioclase and pyroxene, set in a fine grained groundmass which probably had a doleritic texture. The pyroxene has now been completely replaced by hornblende, intermingled with some biotite, while the plagioclase phenocrysts have been completely sericitised, although much of the groundmass plagioclase is still visible.

Plagioclase phenocrysts appear to have been quite sparse. They were probably subhedral, and up to about 5 mm across. They are now represented by a dense mat of extremely fine grained sericite, dotted throughout by occasional small clots of clinozoisite. No trace of the original plagioclase remains in the phenocrysts, except for a very narrow marginal rim in one or two cases. These marginal rims show compositional zoning, indicating that some, at least, of the original phenocrysts were zoned. The original ferromagnesian phenocrysts, presumed to have been pyroxene, have been completely pseudomorphed by masses of uralitic amphibole. The phenocrysts were euhedral to subhedral in form, and up to about 6 mm across. In some cases they are pseudomorphed by a fairly deep green hornblende; in other cases the amphibole is a virtually colourless tremolite, usually surrounded by a narrow rim of deep green hornblende. In many cases the phenocryst pseudomorphs are also rimmed by a narrow zone of biotite, at least for part of the way around the pseudomorph.

The groundmass consists of a confused mixture of deep green hornblende and subsidiary biotite, intermingled with crystals of plagioclase which retain a more or less lath shaped form in most cases, indicating an originally doleritic texture. The plagioclase laths average about 0.2 mm in length, and range from quite fresh-looking to varying degrees of sericitisation. The hornblende and biotite in the groundmass are very fresh, the hornblende mostly forming compact anhedra, while the biotite froms tiny compact flakes, often cutting across hornblende crystals. A low proportion of granular epidote crystals is scattered, rather patchily, through the groundmass, usually associated with the ferromagnesian minerals. Many of the hornblende crystals in the groundmass have a very dirty appearance, as a result of the presence of numerous tiny opaque inclusions.

Specimen No. - 79 PR 29971R

Rock name - pervasively altered acid rock, probably originally of approximately quartz monzonitic composition

Mineralogy - primary - quartz
K-feldspar

secondary - chloritic minerals
sericite
carbonate
pyrite
limonite

accessory - magnetite
apatite

Description - This was originally a medium grained, probably hypidiomorphic granular, acid rock. It is now pervasively altered, so that quartz is the only primary mineral which is clearly visible. No strain accompanied the alteration, so that the texture of the original rock can be distinguished fairly well, and the original mineralogy guessed at with a fair degree of certainty. It was probably originally quartz monzonitic, with about 20% of ferromagnesian minerals, probably mostly hornblende with subsidiary biotite. Both plagioclase and K-feldspar were probably present, most likely in about equal proportions.

Quartz forms about 15% of the rock, in irregular anhedra, and patches of anhedra, which are moderately strained looking. The areas which are assumed to represent altered K-feldspar are colourless in plain light, while under crossed nicols they are seen to consist of a base of optically continuous feldspar throughout which is disseminated about an equal proportion of very fine grained chloritic material. This intermingling gives the crystal a very blotchy appearance. There are also occasional small patches of dirty looking carbonate dotted throughout these crystals. By contrast, those areas which are assumed to represent original plagioclase have a rather dirty appearance in plain light. Under crossed nicols they are seen to consist of an extremely fine grained, jumbled looking, mixture of secondary minerals, iwth no optically continuous base such as was described above. The secondary minerals seem to consist of a mixture of a colourless chlorite, a feldspathic mineral which is probably albitic, a dusting of extremely fine grained opaque minerals, a little sericite, and occasional clots of dirty looking carbonate. The extremely fine grain of the alteration products makes definite identification of the constituent minerals difficult.

(continued overleaf)

Specimen No. - 79 PR 29971R (continued)

The areas which are presumed to represent pseudomorphed hornblende are in the form of fairly compact patches which now consist of a dense mat of extremely fine grained chlorite. This has a yellowish brown colour in plain light, and usually contains a few small clots of carbonate. Associated with these chloritic pseudomorphs, there are masses of a very pale brown mica. These form aggregates, the form of which is reminiscent of biotite flakes, and this secondary mica probably pseudomorphs original biotite. It is often intermingled with some carbonate, and has stringers of very fine opaque minerals along cleavages, mostly limonitic in nature. The rock also contains occasional patches of partly limonitised pyrite. There are occasional slight traces of the former presence of a myrmekitic texture.

Although the general texture of the original rock is pseudomorphed, in detail the secondary minerals from one pseudomorph tend to penetrate the surrounding pseudomorphs, giving a rather confused texture upon very close inspection.

The only accessory minerals noted were small amounts of magnetite and apatite.

# APPENDIX III

## LABORATORY PROCEDURES

### 1. Soil Samples

Samples are sorted and dried at 50°c for approximately 2 hours. The dried material is passed through a -80 mesh (177 micron) screen; fine material is retained for analysis and coarser material discarded.

### 2. Rock Samples

The entire sample is crushed. If necessary (>250 gm), the sample is split on a Jones splitter, the reject being retained for a short period. The split fraction is pulverized such that 90% passes a 200 mesh (74 micron) sieve.

### 3. Geochem Procedures

#### A). Uranium (Fluorometric)

A 1 gram sample of -80 mesh soil or -200 mesh rock is digested with hot $HClO_4$ - $HNO_3$ to strong fumes of $HClO_4$ for approximately 2 hours. The digest is cooled, diluted to volume and mixed.

An aliquot is extracted into methyl isobutyl ketone (MIBK) with the aid of an alumnium nitrate-tetrapropyl ammonium hydroxide salting solution. The uranium in the MIBK is determined by evaporating a portion of the MIBK in a platinum dish and fusing

APPENDIX IV - Comments by C. F. Gleeson, Consulting Geochemist.

October 16, 1979

ENEAS

Geol: Monz-Qtz. Monz and diorite underlie the property.

Geoch: Rocks - Diorites generally low in U.
i.e. <2 ppm.

1. Anom. U in rocks (i.e. >3 ppm) general in the Monz - Qtz Monz. Highest value 35 ppm U, 6 Th in a sample in S-W part of claims. All rocks around this sample of QMNZ are low in U.

2. Another sample of QMNZ S-E of this site contains 10.5 ppm U and 72 ppm Th. No significant soil or scint anom. in this area.

3. A third anomalous QMNZ sample (12.5 U, 190 Th) is present in a sample S of Eneas Cr. - no associated soil or scint anom., although waters draining this hill were anom. in U.

4. A group of rocks (QMNZ) in Eneas Cr. valley to the north contain 3 - 6.5 ppm. According to J. Joule, he found a radioactive outcrop west of Eneas Cr. that registered 1200 cps. on TC1 (Urtec) and 180 cps. on TC2; however analyses of this rock showed only 3 ppm U and 30 ppm Th. Epidote alteration along fractures are common.

Soils: Only one significant soil anomaly in Eneas Creek valley to the north. N-W trending anomaly (200' X 2400') in valley bottom with U values ranging from 11.5 to 50 ppm. Possibly enrichment due to organic material. This general area is also anom. in scint readings ( >150 cps. Scintrex). The anomalous rocks mentioned in #4 above occur at the north end of this anomaly. Geologically QMNZ predominates, it is cut by a N-NW trending fault. Evidently the rocks in the area are highly fractured and epidotized.

APPENDIX II - ENEAS CLAIMS - Rock Descriptions and U and Th Contents

| Number | Location | Composition(%) | | | | | Description | Name | Unit | ppmU (Fluorimetric) | ppmTh (N.A.) | U/Th |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Plag | Ksp | Qtz | Hb | Bi | | | | | | |
| 79PR29851R | L16S,3+25E | 40 | 20 | 15 | 15 | 5 | lineated,med.gr.,unaltered | Hbqtzmz | 3b | 2 | 6 | .33 |
| 52 | L16S,14+25E | 40 | 30 | 10 | 10 | 5 | P.Gr.,slightly lineated,minorChl.alt$^{n}$. of hb,slightly pinkish hue on fspars. | Hbqtzmz | 3b | 3.5 | 6 | .58 |
| 53 | L16S,22+50E | 40 | 30 | 10 | 10 | 5 | med.gr.,v.slight lineation | Hbqtzmz | 3b | 3 | 7 | .42 |
| 54 | L16S,26E | 50 | 10 | <5 | 30 | 5 | lineated,med.grained,unaltered | Hb(bi)dio-rite | 1a | 2 | 7 | .29 |
| 55 | L16S,34E | 40 | 30 | 5 | 20 | 5 | med.gr., massive,unaltered | Hb mz | 2b | 2 | 3 | .67 |
| 56 | L16S,44E | 50 | 20 | - | 20 | 10 | med.to c.gr., massive,unaltered | Hb(bi)dio-rite | 1a | 1.5 | 2 | .75 |
| 57 | L16S,54E | 40 | 10 | - | 20 | 10 | med.gr.,massive,unaltered | Hb(bi)dio-rite | 1a | 1.5 | 4 | .38 |
| 58 | L16S,58+50E | 30 | 40 | 20 | 5 | 5 | med.gr.,massive w kfsp,qtz.rich veinlet crosscutting | Hb-biztzmz | 3a | 3 | 30 | .10 |
| 59 | L235,2W | 40 | 20 | 10 | 15 | 5 | f.to med.gr.,v.slightly lineated,no alt$^{n}$. | Hbqtzmz | 3b | 3.5 | 13 | .27 |
| 60 | L245,13W | 30 | 10 | 10 | 10 | 25 | f.to med.gr., with numerous "patches" f.gr. mica | Hbmz | 2b | 2.5 | 16 | .16 |
| 61 | L24S,15+50W | | | | | | aphanitic with qtz grains visible trac. Py,trace Mo?or figr.mica | Aplite | 4 | 1.5 | 5 | .30 |
| 62 | L24S,30W | 40 | 30 | 15 | 15 | 5 | slightly lineated,med.gr.,unaltered,trace sphere | Hbztzmz | 3b | 3 | 5 | .60 |
| 63 | L24S,40W | 40 | 30 | 10 | 20 | 5 | med.gr.,massive,unaltered | Hbqtzmz | 3b | 2.5 | 5 | .50 |
| 64 | BL40S | 40 | 30 | 10 | 20 | 5 | c.gr. massive,unaltered | Hbqtzmz | 3b | 3 | 8 | .38 |
| 65 | L40S,10+50E | 40 | 20 | 15 | 15 | <5 | c.gr., massive,unaltered | Hbqtzmz | 3b | 2.5 | 10 | .25 |
| 66 | L40S,22E | 40 | 40 | 10 | 5 | 5 | c.gr.Kspar enhedral +mega-crystic,unaltered | Hbmz | 2b | 3 | 17 | .18 |
| 67 | L40S,23E | 20 | 50 | 5 | 15 | 5 | c.gr.Kspar enhedral + mega-crystic,unaltered | Hbgranite | 3b | 3 | 23 | .13 |
| 68 | L40S,33E | 20 | 40 | 20 | 5 | 5 | m.gr.Kspar slightly mega-crystic,unaltered | Hbgranite | 3b | 2.5 | 9 | .28 |
| 69 | L40S,42E | 50 | 10 | 5 | 15 | 5 | med.gr.,massive,unaltered | Hbdiorite | 1b | 3.5 | 23 | .15 |
| 70 | L40S,53E | 30 | 30 | 20 | 10 | 5 | med.gr.,massive,unaltered | Hbqtzmz | 3b | 3 | 15 | .20 |
| 71 | - | 50 | 10 | 5 | 20 | 5 | med.gr.,massive,unaltered euhedral plag + hb | Hbdiorite | 1b | 2 | 6 | .33 |
| 72 | L56S,51+40W | 50 | 10 | 10 | 15 | 5 | med.gr.,massive,unaltered | Hbdiorite | 1b | 3.5 | 16 | .22 |
| 73 | L56S,37W | 30 | 15 | - | 40 | 5 | med.to c.gr.massive,unaltered | Hbmz | 2b | 2 | 10 | .20 |

APPENDIX II - ENEAS CLAIMS - Rock Descriptions and U and Th Contents

| Number | Location | Composition(%) | | | | | Description | Name | Unit | ppmU (Fluorimetric) | ppmTh (N.A.) | U/Th |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Plag | Ksp | Qtz | Hb | Bi | | | | | | |
| 79PR29874 | L56S,27+50W | 40 | 20 | 5/10 | 25 | 5 | med.gr. massive,unaltered | Hbmz | 2b | 1.5 | 8 | .19 |
| 75 | L56S,20W | 40 | 20 | 10 | 25 | 5 | med.gr. massive,unaltered | Hbmz | 2b | 1.5 | 6 | .25 |
| 76 | L56S,10W | 40 | 20 | 5 | 25 | 5 | med.gr.brecciated & cut by irreg.veinlets chl+hb | Hbmz | 2b | 2.5 | 24 | .10 |
| 77 | L72S,44W | 50 | 10 | 5 | 20 | 5 | med.gr. euhedral plag+hb, massive unaltered | Hbdiorite | 1b | 1.5 | 9 | .17 |
| 79PR29878R | L72S,34W | 50 | 20 | 10 | 15 | 5 | slightly feld,med.gr., unsalted | Hbdiorite | 1b | 1.5 | 7 | .21 |
| 79 | L72S,24W | 40 | 15 | 10 | 15 | 5 | med.gr. massive,unaltered | Hbgdiorite | 1b | 1.5 | 6 | .25 |
| 80 | L72S,15W | 50 | 25 | 10 | 10 | 5 | med.gr. massive,unaltered | Hbgdiorite | 2b | 2.0 | 9 | .22 |
| 81 | L72S,5E | 50 | 15 | 10 | 20 | 5 | med.gr.massive,unaltered | Hbgdiorite | 1b | 2 | 5 | .40 |
| 82 | L72S,16E | 40 | 35 | 15 | 10 | 5 | med.gr.massive,unaltered with fsp-qtz veins X-cutting | Hbqtzmz | 3b | 12.5 | 190 | .07 |
| 83 | L72S,27E | 40 | 30 | 20 | 10 | 5 | slightly fol$^{d}$,med.gr,unaltered | Hbqtzmz | 3b | 2 | 13 | .15 |
| 84 | L72S,35E | 40 | 30 | 5 | 20 | 5 | slightly lineated,med.gr. with occas.euhedral plag megacrysts | Hbmz | 2b | 2.5 | 8 | .31 |
| 85 | L72S,46E | 60 | 15 | - | 20 | 5 | f.to med.gr.,slightly lineated, unaltered | Hbdiorite | 1b | 2.5 | 5 | .50 |
| 86 | L96S,55W | 40 | 30 | 5 | 15 | 5 | med.gr.,massive,unaltered | Hbmz | 2b | 1.5 | 15 | .10 |
| 87 | L96S,42+50W | 50 | 20 | 10 | 20 | 5 | med.to c.gr.,massive,unaltered | Hbgdiorite | 1b | 1.5 | 6 | .25 |
| 88 | L96S,42+50W | 50 | 20 | 10 | 20 | 5 | med.to c.gr.,massive,unaltered | Hbmz | 2b | 1.5 | 6 | .25 |
| 89 | L96S,42+25W | | | | | | aphanitic qtzo-feldspathic-aplite? | Aplite | 4 | 1 | 4 | .25 |
| 90 | L96S,42+25W | 50 | 20 | 10 | 20 | 5 | med.gr.,massive,unaltered | Hbmz | 2b | 35 | 6 | 5.83 |
| 91 | L96S,33+50W | 40 | 20 | 5 | 25 | 5 | med.gr.,massive,unaltered | Hbmz | 2b | 2.5 | 5 | .50 |
| 92 | L96S,22W | 50 | 30 | 10 | 5 | 5 | slightly lineated,med.gr., unaltered | Mz | 2b | 1.5 | 5 | .30 |
| 93 | L96S,12W | 60 | 5 | tr | 20 | 5 | med.gr.,massive,unaltered | Hbdiorite | 1b | 1.5 | 3 | .50 |
| 94 | L112S,19W | 50 | 20 | 10 | 10 | - | med.gr.,massive,unaltered | Hbgdiorite | 1b | 2 | 5 | .40 |
| 95 | L112S,31+50W | 50 | 30 | 10 | 5 | - | med.gr.,massive,unaltered | Hbmz | 2b | 10.5 | 72 | .15 |
| 96 | L112S,30W | 60 | 5 | 10 | 25 | - | med.gr.,massive,unaltered | Hbdiorite | 1b | 1.5 | 5 | .30 |
| 97 | L112S,48W | 50 | 30 | 10 | 5 | 5 | med.gr.,massive,unaltered | Hbmz | 2b | 3.5 | 7 | .50 |

APPENDIX II - ENEAS CLAIMS - Rock Descriptions and U and Th Contents

| Number | Location | Composition(%) | | | | | Description | Name | Unit | ppmU (Fluorimetric) | ppmTh (N.A.) | U/Th |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Plag | Ksp | Qtz | Hb | Bi | | | | | | |
| 79PR29901R | L0+00,5+75E | 50% | 20 | 10 | 20 | 5-10 | Massive,slightly fol,no visible alteration,trace Mt. | Hbbiqtzdi-la granodiorite | | 2 | 8 | .25 |
| 2R | L1+00N,18+00E | 40 | <10 | - | 30 | 20 | Feint,diabasic texture, on stained surface Kspa occurs as knobs which in places resemble augen trace Mt. | Hb-bi dior-la ite | | 0.5 | 2 | .25 |
| 3R | L0+75S,28E | 40 | 15 | 5 | 35 | 45 | V.slightly lineated,no visible alteration-possible slight mica alteration of feldspar,trace Mt. | Hb-bi diorite la to gdi. | | 1 | 2 | .50 |
| 4R | L0+00,41E | 40 | 10 | - | 40 | 10 | ophitic tex.,euhedral hb prisms w interst. play,kspa occupies knobs w in rk. often accompanied by bi,no visible alt. | Hb -bi diorite | la | <0.5 | 3 | <.16 |
| 5R | L0+00,54+40E | 60 | 10 | tr | 30 | tr | trace Mt,v.slightly lineated, hb to ¼",interstit. fspar euhedral v.slight chlorite alteration of hb | Hb-diorite | 1b | 0.5 | <1 | <.50 |
| 6R | L14+50S,6+25E | 60 | 10 | tr | 30 | 10 | trace Mt.slightly lineated,hb subhedral to ¼" sometimes banded, fspars euhedral & interstitial, trace brown translucent wedge shaped mineral(sphenea?) | Hb-bi diorite | 1a | 0.5 | 5 | .10 |
| 7R | L16S,15+00E | 60 | 10 | tr | 30 | tr | trace Mt,trace sphere,slightly brecciated,f.gr.sugary appearnce, generally unaltered except for white clouding of plag.,slightly lineated | Hb-diorite | 1b | 1 | 6 | .17 |
| 8R | L16S,24+00E | 50 | 15 | 5 | 30 | tr | lineated w kspar occupying bands slight hem.stain on fspar occurs in small patches,local knobs of foliated bi U to lineation,trace Mt,slight rusty weathering of hb+ bi(faint gnerssic texture) | Hb-diorite to qtz diorite | 1b | 0.5 | 6 | .08 |
| 9R | L16S,35+00E | 50 | - | - | 40 | 10 | trace Mt.,generally massive, inclusions or knobs of bi + plag local w gradational boundaries,generally fresh | Hb-bichorite | 1a | <0.5 | 2 | <.25 |

APPENDIX II - ENEAS CLAIMS - Rock Descriptions and U and Th Contents

| Number | Location | Composition (%) | | | | | Description | Name | Unit | ppmU (Fluorimetric) | ppmTh (N.A.) | U/Th |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Plag | Ksp | Qtz | Hb | Bi | | | | | | |
| 79PR29910R | L14+25S,45E | 50 | 5 | - | 20 | 25 | trace Mt,slightly fol.,relatively fresh w minor rusty weathering of bi,whitish fspar alteration,hb euhedral, bi consists of masses of fol. finer grains often associated w kspar & appear as yellow knots on stained surface | Bi-hb diorite | 1a | 0.5 | 3 | .17 |
| 11R | L32S,1E | 30 | 30 | 20 | 10 | 10 | trace Mt,hypidiomorphic granular,no visible alteration, trace sphere | Bi-Hbqtz monzonite | 3a | < 0.5 | 11 | < .04 |
| 12R | L32S 11E | 30 | 30 | 10 | 10 | 20 | trace Mt,trace sphere,hypidiomopwc granular,m.gr.,subhedral hb & bi,not aligned | Bi-Hb monzonite | 2a | 0.5 | 15 | .03 |
| 13R | L32S,21E | 30 | 25 | 15<br>10 | 15 | 20 | trace Mt,spere,slightly fol. and lineated,m.gr. | Bi-Hb Qtzmonzonite | 3a | 0.5 | 10 | .05 |
| 14A | L32+50S,31E | 50 | 5 | 5-10 | 25 | 10 | M.gr.,contact btn A+B -very strays hypidiomorphic granular | Hb-Bidiorite | 1a | 0.5 | 8 | .06 |
| 14B | L32+50S,31E | 50 | 10 | tr | 10 | 30 | f.gr.equigranular w trace Mt occasional wo + tals to ½" | Bi-Hbdiorite | 1a | | | |
| 15 | L32S 47E | 30 | tr | tr | 50 | 10 | slight ophitic texture w euhedral interstitial fsp. to subhedral skeletal hb, tract Mt. | Hb-diorite | 1b | < 0.5 | 4 | < 1.2 |
| 16 | L32S 58+25E | 50 | tr | - | 50 | tr | f.gr.,equigranule trace Mt. | Hb-diorite | 1b | < 0.5 | 3 | < .16 |
| 17 | L40S,3E | 50 | 30 | 5 | 10 | 5 | trace Mt,m.gr.,hb lineated, unaltered | Bi-Hb mz | 2a | < 0.5 | 12 | < .04 |
| 18 | L40S,16E | 40 | 40 | 10 | 10 | < 1 | trace Mt,trace epidote in fractures m.gr.,slightly lineated hb,unaltered | Bi-mz | 2b | 1 | 12 | .08 |
| 19 | L40S,23E | 50 | 30 | 5 | 10 | 5 | trace Mt,trace sphere,m.gr., hb lineated,unaltered | Bi Hb mz | 2a | 0.5 | 10 | .05 |
| 20 | L30S,44+50E | 50 | 10 | - | 30 | 5 | m.gr.,massive,unaltered in contact w f.gr.,massive equivalent(inclusion) | BiHbdiorite | 1a | < 0.5 | 3 | < .17 |

APPENDIX II - ENEAS CLAIMS - Rock Descriptions and U and Th Contents

| Number | Location | Composition (%) | | | | | Description | Name | Unit | ppmU (Fluorimetric) | ppmTh (N.A.) | U/Th |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Plag | Ksp | Qtz | Hb | Bi | | | | | | |
| 79PR29921 | L40S,55E | 60 | 20 | - | 15 | 5 | trace Mt,f.m gr.,slightly diabasic tex.unaltered | BiHbmz | 2a | <0.5 | 2 | <.25 |
| 22 | L48S,54E | 50 | 20 | 5 | 20 | 5 | c.gr.,massive,unaltered | BiHbmz | 2a | 0.5 | 3 | .17 |
| 23 | L48S,41E | 60 | 20 | 5 | 10 | 5 | trace Mt.hb.lineated,bi foliated ll to lineation, unaltered,m.gr. | BiHbmz | 2a | 0.5 | 12 | .04 |
| 24 | L48S,33E | 20 | 20 | - | 50 | 10 | trace Mt,trace cl.,v.f.gr. dark w euhedral hb xtals & rounded-semirounded gr. of fspar to ¼" & aggregates of f.hb w fspar up to 1/8",both lineated slight cl. alteration of hb,mica most visible on fracture faces | amphiboltic | | <0.5 | 3 | <.17 |
| 25 | L54S,4E | 50 | 20 | 10 | 15 | 5 | c.gr.,massive unaltered | Hb-Bi Mz | 2a | 1 | 46 | .02 |
| 26 | L56S,13+50E | 50 | 30 | 10 | 5 | 5 | slightly lineated,med.to cr.gr.,unaltered | Hb-Bi-mz | 2a | 0.5 | 11 | .05 |
| 27 | L56S,24E | 40 | 30 | 10 | 15 | 5 | med.gr.,massive,unaltered | Hb-bimz | 2a | 1 | 22 | .05 |
| 28 | L56S,34E | 30 | 40 | 10 | 15 | 5 | f. to med.gr.,trace hb stain on fspar | " | 2a | 2 | 25 | .08 |
| 29 | L56S,40E | 40 | 30 | 10 | 15 | 5 | slightly lineated,med.gr., unaltered | " | 2a | 1 | 10 | .10 |
| 30 | L56S,52E | 50 | 10 | 5 | 20 | 5 | v.slightly lineated,med. gr.,white unaltered | Hbdiorite | 1b | 0.5 | 5 | .10 |
| 31 | L32S,2W | 40 | 20 | 20 | 15 | 5 | med.to c.gr.,massive unaltered | Hbqtzmz | 3b | <0.5 | 10 | <.05 |
| 32 | L32S,12W | 40 | 15 | 5 | 15 | 5 | slightly fol$^{d}$,f.to med.gr., unaltered | Hbdiorite | 1b | 1.5 | 15 | .10 |
| 33 | L32S,22W | 50 | 20 | 5 | 20 | 5 | v.slightly lineated med.gr., unaltered | Hb Mz | 2b | 1.5 | 10 | .15 |
| 34 | L32S,34+50W | 50 | 30 | 5 | 10 | 5 | med.gr.,massive,unaltered | Hbmz | 2b | <0.5 | 7 | <.07 |
| 35 | L32S,42W | 50 | 20 | 5 | 15 | 5 | med.gr.,massive,unaltered | Hbmz | 2b | <0.5 | 4 | <.13 |
| 36 | L32S,53W | 50 | 25 | 10 | 10 | 5 | slightly lineated,med.gr., unaltered | Hb-mz | 2b | 0.5 | 6 | .08 |

APPENDIX II - ENEAS CLAIMS - Rock Descriptions and U and Th Contents

| Number | Location | Composition (%) | | | | | Description | Name | Unit | ppmU (Fluori-metric) | ppmTh (N.A.) | U/Th |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Plag | Ksp | Qtz | Hb | Bi | | | | | | |
| 79PR29937 | L48S | 40 | 20 | 20 | 15 | 5 | c.gr., massive | Hbbiqtzmz | 3a | 1 | 16 | .06 |
| 37b | 51+90 | 50 | - | - | 50 | - | med.gr.,massive,euhedrl, plag w interstitial Hb | Hbdiorite | 1b | | | |
| 38 | L48S | 40 | 20 | 20 | 10 | 10 | c.gr.,massive.v.slightly pinkish hue to fsp.(Ht?) | Hb-biqtzmz | 3a | | | |
| 38B | 42W | 50 | - | - | 40 | 10 | med.gr.,unaltered, contact sharp | Hb-bidiorite | 1a | 0.5 | 8 | .06 |
| 39 | L48S,31+75W | 50 | 20 | 10 | 10 | 5 | c.gr.,massive,ht on fractures only | Hb mz | 2b | 0.5 | 9 | .06 |
| 40 | L48S,22W | 40 | 30 | 10 | 10 | 5 | c.gr.,massive,inclusions, f.gr.,fsp-bi-hb material | Hbmz | 2b | 0.5 | 9 | .06 |
| 41 | L48S,12W | 40 | 30 | 15 | 10 | 5 | c.gr.,massive,unaltered | Hbqtzmz | 3b | 2.5 | 14 | .18 |
| 42 | L48S,2W | 40 | 40 | 15 | <5 | <5 | slightly lineated fsp + qtz,unaltered,med.grained | Qtzmz | 3a | 1.5 | 11 | .14 |
| 43 | L64S,46W | 50 | 40 | tr | 40 | 5 | med.to c.gr.with plag + hb both euhedral,possibly brecciated? | Hbdiorite | 1b | 2.0 | 8 | 2.5 |
| 44 | L64S,36W | 50 | 20 | <5 | 10 | 10 | med.gr.,unaltered,massive | Hbdi-mz | 1b | 2.0 | 8 | .25 |
| 45 | L63S,25W | 50 | <5 | tr | 30 | 5 | med.gr.,massive cut by light ping bi-peg.veinlet | Hbdi | 1b | 3.0 | 7 | .43 |
| 46 | L64S,16W | 40 | 25 | 15 | 15 | 5 | med.gr.,massive,unaltered | Hbqtzmz | 3b | 2.0 | 8 | .25 |
| 47 | L64S,6W | 30 | 40 | 15 | 10 | <5 | med.to c.gr.massive,unaltered | " | 3b | 2.5 | 18 | .14 |
| 48 | L64S,9E | 40 | 20 | 15 | 15 | 5 | med.gr.,massive unaltered | " | 3b | 1.5 | 11 | .14 |
| 49 | L64S,19E | 20 | 40 | 15 | 15 | 5 | med.gr. w inclusion plag - hb f.gr.material;v.slight Ht stain | Hbgranite | 3b | 5.0 | 6 | .83 |
| 50 | L64S,28+50E | 50 | 25 | 10 | 15 | 5 | med.gr.,massive,unaltered | Hbmz | 2b | 2.5 | 8 | .31 |

APPENDIX IV - (cont'd.)

ENEAS

Conclusions: The only drill target we might have here is the above anomaly. However, it would be advisable to do more prospecting around it before any decision is made on drilling.

Model: Intergranitic veins.

## APPENDIX V

### References

1. Little, H.W. (1961): Geology - Kettle River, B.C. (W ½); G.S.C. Map 15 - 1961

## APPENDIX VI - REANALYSIS OF RADIOACTIVE SHOWING AT L19S, 11W

1200 c.p.s. (TC1) and (180 c.p.s. (TC2) occur in hornblende monzonite at L19S,11W. The rock comprises hornblende monzonite cut by fine, epidote-filled fractures. Material from fractures and intervening fresh rock were analysed for U and Th to determine the source of the radioactivity.

| Sample No. | Description | ppm U* | ppm Th* | U/Th |
|---|---|---|---|---|
| 79PR29858R-A | Epidote vein material | 77 | 1190 | 0.06 |
| -B | Epidote vein material | 54 | 750 | 0.07 |
| -C | Fresh rock between fractures | 47 | 790 | 0.06 |

* Data are listed in Appendix I.

U contents are up to 2 times the highest previous value on the ENEAS Claims, however Th contents also are extremely high resulting in U/Th ratios much less than unity. The increased radioactivity is likely the result of the increased Th rather than U contents.

## APPENDIX VI - ENEAS CLAIMS - ROCK SAMPLE 79PR29858R
## - Radioactive Showing at L19S,11W

- Sent for U, Th

A: vein material - ep, ht
B: vein material - ep, ht
} PARALLEL FRACTURES ~ 2" apart

C: unaltered fresh rock between fractures

APPENDIX II - ENEAS CLAIMS - Rock Descriptions and U and Th Contents

| Number | Location | Composition(%) | | | | | Description | Name | Unit | ppmU (Fluorimetric) | ppmTh (N.A.) | U/Th |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Plag | Ksp | Qtz | Hb | Bi | | | | | | |
| 79PR29951 | BL6S | 60 | 10 | 2-5 | 30 | 5 | M.-c.gr.,slightly lineated, unaltered | Hb-Bidi | 1a | 1 | 2 | .50 |
| 52 | L9+20S,13E | 60 | 10 | 2-5 | 30 | 5 | M.-c.gr.,slightly lineated, unaltered | Hb-Bidi | 1a | 1 | 1 | 1.00 |
| 53 | L8S,22E | 60 | 10 | 2-5 | 30 | 5 | m.gr.,slightly lineated, unaltered, trace sphere, pods of f.gr.mica to lineation | Hb-Bidi | 1a | 3 | 6 | .50 |
| 54 | L8S,29+60E | 40 | 30 | tr | 25 | 5 | " " " | Hb-Bidi | 1a | 3 | 7 | .43 |
| 55 | L8S,39E | 50 | 1-2 | tr | 40 | 2-3 | trace hem.-disseminated,f.gr., lineated,slight cl.alt.of hb. | Hb-Bidi | 1a | 0.5 | <1 | 7.50 |
| 56 | L24S,53E | 60 | tr | tr | 40 | tr | f.-m.gr.,equigranular,massive, unaltered | Hb-Bidi | 1a | 0.5 | <1 | 7.50 |
| 57 | L23+40S,41E | 60 | tr | tr | 40 | tr | " " " | Hb-Bidi | 1a | 3 | 6 | .50 |
| 58 | L23+80S,29E | 60 | 5 | 5 | 30 | - | m-c.gr.,massive,cut by narrow veinlet containing mafic mat. w Kspar,halo to ¼". | Hb-Bidi | 1a | 1 | 5 | .20 |
| 59 | L23+90S,15+30E | 60 | 20 | tr | 15 | 5 | m.gr.,massive,cut by narrow epidote veinlet w halo of pinkish stained fsp (hem.halo) | HbMz | 2b | 1.5 | 7 | .21 |
| 60 | - - - - | 50 | 30 | 15 | 5 | tr | f-m. gr.,massive,unaltered | HbQtzMz | 3b | 3.5 | 13 | .27 |
| 61 | BL27S | 30 | 25 | 15 | 25 | 5 | m.gr.,massive, unaltered | HbQtzMz | 3b | 6.5 | 35 | .19 |
| 62 | BL37S | 30 | 25 | 15 | 25 | 5 | m.gr.,massive, unaltered | HbQtzMz | 3b | 2.0 | 23 | .09 |
| 63 | BL47S | 25 | 30 | 20 | 15 | 5 | m-c.gr.,massive,unaltered | HbQtzMz | 3b | 3.0 | 9 | .33 |
| 64 | L60S,1W | 30 | 30 | 15 | 20 | 5 | m-c.gr., massive, unaltered | HbQtzMz | 3b | 3.0 | 7 | .43 |
| 65 | L0,48W | 40 | 30 | 5 | 5 | 20 | med.gr.,slightly lineated unaltered | Bi-hbmz | 2a | 3.0 | 23 | .13 |
| 66 | L0,38W | 35 | 15 | <5 | 35 | 5 | med.gr., slightly lineated, some zoning of plag+Kfspar into ill-defined bands paralleled lineation | - | - | - | - | - |
| 67 | L0,27W | 35 | 15 | <5 | 35 | 5 | contact w pegmatite vein w 1" wide and slightly foliated and lineated,unaltered,med.grained rock | Hbmz | 2b | 4.0 | 17 | .24 |
| 68 | L1+20S,11W | 40 | 10 | tr | 40 | 5 | med.gr.,massive,unaltered | Hbdiorite | 1b | 3.0 | 5 | .60 |
| 69 | L8S,4W | 30 | 30 | <5 | 25 | 5 | contact med.gr.,unaltered lineated rock + f.gr.,Hb rich inclusion | HbMz | 2b | 2.0 | 4 | .50 |

APPENDIX II - ENEAS CLAIMS - Rock Descriptions and U and Th Contents

| Number | Location | Composition (%) | | | | | Description | Name | Unit | ppmU (Fluorimetric) | ppmTh (N.A.) | U/Th |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Plag | Ksp | Qtz | Hb | Bi | | | | | | |
| 79PR29970R | L8S,15W | 50 | 10 | - | 25 | 5 | blotchy appearance w pods of f.gr.,Hb-plag.(inclusion) and Hb.grains in med.gr. plag. matrix,unaltered | Hb-di | 1b | 3.0 | 15 | .20 |
| 71 | L8S,21W | - | - | - | - | - | highly chloritized,hematized altered rock in which only original qtz.remains -likely equivalent of Hb-diorite | ? | θ | 2.0 | 6 | .33 |
| 72 | L8S,29+50W | 50 | 20 | 2 | 25 | 5 | med.gr.,slightly foliated, unaltered | HbMz | 2b | 3.5 | 16 | .22 |
| 73 | | - | - | - | - | - | - - - | ? | θ | 2.0 | 10 | .20 |
| 74 | L80S,54W | 50 | 30 | 10 | 20 | 5 | med.gr.,massive,unaltered | Hb-Mz | 2b | 1.5 | 8 | .19 |
| 75 | L80S,41W | 50 | 30 | 10 | 20 | 5 | med.gr.,massive,unaltered | Hb-Mz | 2b | 1.5 | 6 | .25 |
| 76 | L80S,30+80W | 60 | 10 | 5 | 20 | 5 | med.gr.,massive,unaltered | Hbdi | 1b | 2.5 | 24 | .10 |
| 77 | L80S,22W | 50 | 30 | 15 | 5 | - | med.gr.,massive,unaltered | HbQtzMz | 3b | 1.5 | 9 | .17 |
| 78 | L80S,12W | 40 | 20 | 20 | 15 | 5 | med.gr.,massive,unaltered | HbQtzMz | 3b | 1.5 | 7 | .21 |
| 79 | L80S,2+50W | 30 | 30 | 15 | 15 | 5 | med.gr.,massive,unaltered | HbQtzMz | 3b | 1.5 | 6 | .25 |
| 80 | L88S,6W | 50 | 25 | 10 | 20 | 5 | f.to med.gr.,massive, unaltered | HbMz | 2b | 2.0 | 9 | .22 |
| 81 | L88S,16W | 50 | 25 | 15 | 15 | 5 | med.gr.,massive,unaltered | HbQtzMz | 3b | 2.0 | 5 | .40 |
| 82 | L88S,29W | 50 | 20 | 10 | 20 | 5 | med.gr.,massive,unaltered | HbMz | 2b | 12.5 | 190 | .07 |
| 83 | L88S,39W | 50 | 10 | 10 | 20 | 10 | med.gr.,massive,unaltered | Hbdi | 1b | 2.0 | 13 | .15 |
| 84 | L92S,51W | 50 | 15 | 10 | 25 | - | slightly lineated,med.gr., unaltered | Hbdi | 1b | 2.5 | 8 | .31 |
| 85 | L103S,46W | 60 | <5 | 5 | 25 | - | med.gr.,massive,unaltered | Hbdi | 1b | 2.5 | 5 | .50 |
| 86 | L105S,27W | 40 | 30 | 10 | 20 | - | med.gr.,massive,unaltered | HbMz | 2b | 1.5 | 15 | .15 |
| 87 | L105S,17+20W | 40 | 25 | 5 | 25 | 5 | med.to c.gr.,massive, unaltered | HbMz | 2b | 1.5 | 6 | .25 |
| 88 | L104S,7+50W | 40 | 35 | 5 | 15 | 5 | med. to c.g.,massive, unaltered,slightly megacrystic, Kfsp. | HbMz | 2b | 1.5 | 6 | .25 |
| 89 | L120S,9+50W | 50 | 25 | 5 | 15 | 5 | trace epidote veining,med.gr., massive. | HbMz | 2b | 1.0 | 4 | .25 |
| 90 | L120S,20W | 40 | 30 | 10 | 15 | 5 | med.gr.,massive,unaltered | HbMz | 2b | 2.0 | 6 | .33 |
| 91 | L120S,30W | 30 | 15 | - | 40 | 5 | slightly brecciated w mafic felmass to fsp. frags | HbMz | 2b | 2.5 | 5 | .50 |
| 92 | L120S,40W | 40 | 15 | 5 | 30 | 5 | cut by hb. filled fracture, med. gr. | HbMz | 2b | 1.5 | 5 | .30 |

| SAMPLE | U PPM | TH PPM |
|---|---|---|
| 79PR29858RA | 77.0 | 1190 |
| 79PR29858RB | 54.0 | 750 |
| 79PR29858RC | 47.0 | 790 |

STATEMENT OF EXPENDITURES

CLAIMS ENEAS 1-5 (66 Units)

RECORD NUMBERS 433-437

| | | | Pro-rated Costs |
|---|---|---|---|
| Salaries and Benefits | | | $ 6,850.43 |
| Travel and Accommodation | | | 965.41 |
| Drafting and reproduction | | | 519.73 |
| Consultant | | | 249.94 |
| Camp costs and supplies | | | 2,074.61 |
| Rental of equipment | | | 2,339.83 |
| Administration @ 10% | | | 1,300.05 |
| SUB TOTAL | | | 14,300.00 |
| Linecutting 17.9 km @ $218 | | $ 3,885.00[2] | |
| Geochemical analyses | | 3,553.64[3] | |
| PAC | | 4,661.36 | 7,438.64 |
| TOTAL | | | $ 26,400.00 |

Notes

1) Pro-rated on basis of 44 man-days worked on claims conducting geological/geochemical/geophysical surveys out of a total of 798 man-days spent on these surveys during Project Prinic (see attached breakdown on following sheet)

2) Linecutting completed by Futura DevelopmentsReg'd.,Penticton, B.C.

3) Geochemical analyses completed by Chemex Labs, Vancouver, B.C.

## PROJECT PRINIC EXPENDITURES- 1979

### Geological,Geochemical/Geophysical Surveys
Excl.linecutting, drilling,staking and geochemical analyses

| | |
|---|---|
| Salaries and Benefits | $ 124,242 |
| Travel and Accommodation | 17,509 |
| Drafting and Reproduction | 9,426 |
| Consultant | 4,533 |
| Camp Costs and Supplies | 37,626 |
| Rental of Equipment | 42,436 |
| Administration @ 10% | 23,578 |
| TOTAL | $ 259,350[1] |

Note:

[1] A total of 798 man-days was spent carrying out geological/geochemical/geophysical surveys during summer 1979 on Project Prinic (refer attached man-day breakdown)

## PROJECT PRINIC EXPENDITURES

### 1979 FIELD WORK (excluding drilling, geochem analyses staking)

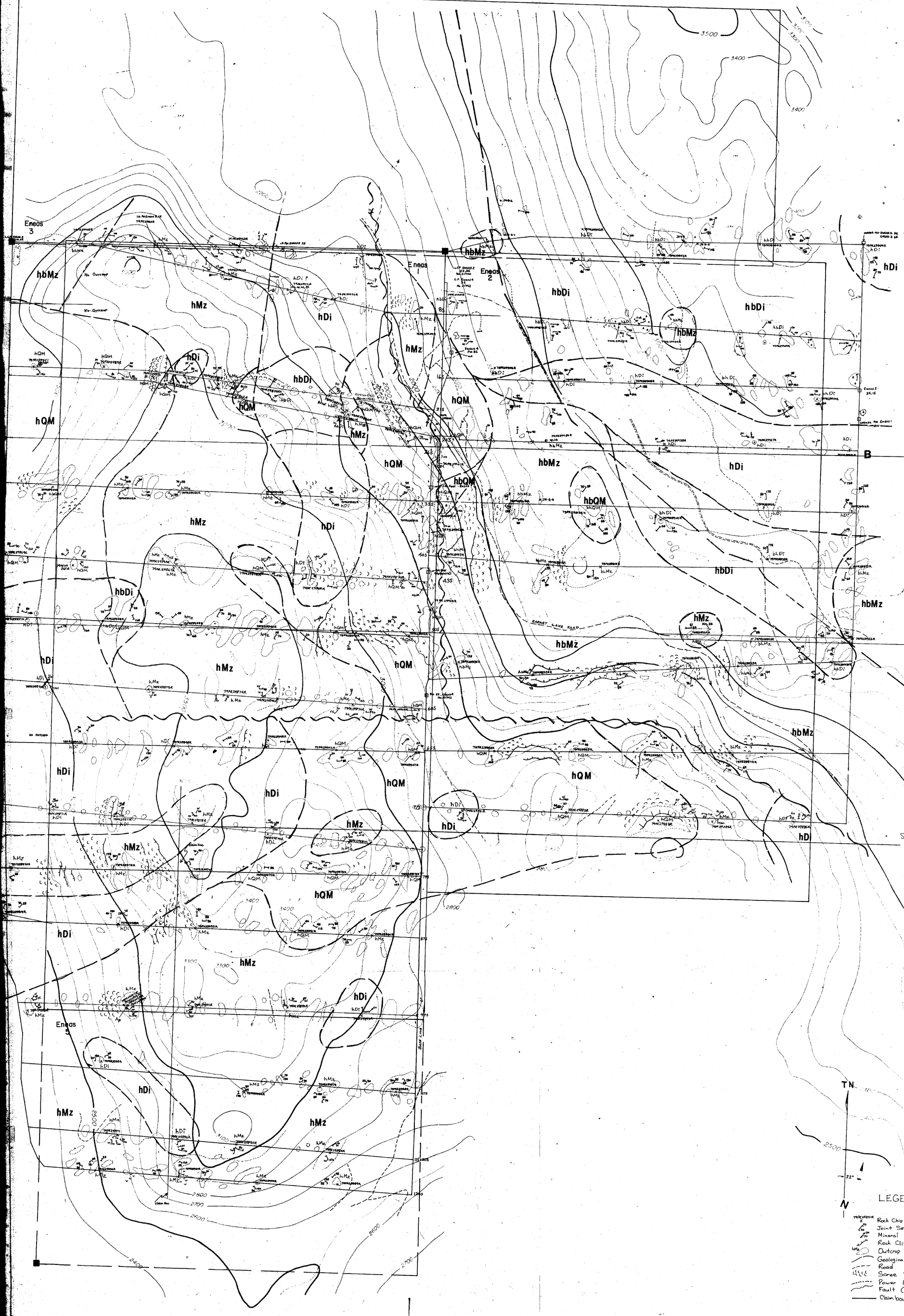
| | Claim | No. of Man-Days Work | Pro-rated Survey[1] cost @$325/man-day | No. of miles(km) of linecutting | Linecutting Cost @$350/1.m.(or $218/km) |
|---|---|---|---|---|---|
| 1) | MAR 1-2 | 35 | $ 11,375 | 5.5(8.9) | $ 1,925 |
| 2) | WAS 1-2 | 15 | 4,875 | 9.1(14.6) | 3,185 |
| 3) | GLAD 1-4) 5-10) | 11 | 3,575 | — | — |
| 4) | SEC 1 | 20 | 6,500 | 8.5(13.7) | 2,975 |
| 5) | FIN 1-2 | 10 | 3,250 | - | - |
| 6) | NIC | 50 | 16,250) | | |
| | | 45 | 14,625) | 28.2(45.4) | 9,870 |
| | | 40 | 13,000) | | |
| 7) | FRED 1-2) 3-5) | 20 | 6,500 | 14.8(23.8) | 5,180 |
| 8) | LINK 1-3 | 144 | 46,800 | 33.5(53.9) | 11,725 |
| 9) | BALD 1-4 | 55 | 17,875 | 36.6(58.9) | 12,810 |
| 10) | ENEAS 1-5 | 44 | 14,300 | 11.1(17.9) | 3,885 |
| 11) | TOK 1-4 | 70 | 22,750 | 41.8(67.3) | 14,630 |
| 12) | DEMUTH 1 | 10 | 3,250 | 5.4(8.7) | 1,890 |
| 13) | DARK 1-5 | 32 | 10,400 | 32.4(52.1) | 16,524 |
| 14) | COMA 1-3 | 2 | 650 | - | - |
| 15) | FOX 1 | 10 | 3,250 | 4.2(6.8) | 1,470 |
| 16) | MEL 1-2 | 20 | 6,500 | 6.4(10.3) | 2,240 |
| 17) | SHORT 1 | - | - | - | - |
| 18) | SHIN 1-2 | - | - | - | - |
| 19) | CLARK 1-6 | 125 | 40,625 | 19.4(31.2) | 6,790 |
| 20) | DROP 1 | 15 | 4,875 | 3.4(5.5) | 1,190 |
| 21) | STAKE 1-2 | 25 | 8,125 | 5.4(8.7) | 1,890 |
| | TOTAL | 798 | $259,350 | 233.3(375.4) | $98,179 |

## Author's Qualifications

Eric J. Sacks

Education - Graduated Queen's University,
Kingston, Ontario
M.Sc. in Geology, 1978
- Graduated University of Toronto,
Toronto, Ontario
B.Sc. in Geology, 1977

Work Experience - Employed as field exploration geolgist with Canadian Occidental Petroleum Ltd., Minerals Division, Toronto, Ontario since 1978. Carried out and supervised mineral exploration programs in B.C. and Yukon.




TN 10° 22° N

## LEGEND

- Rock Chip Sample Location
- Joint Set Orientation
- Mineral Foliation
- Rock Cliff
- Outcrop Perimeter
- Geological Contact
- Road (Inferred)
- Scree Slope
- Power Line
- Fault (Implied)
- Claim boundary

## ROCK TYPES

| | |
|---|---|
| Ap | Aplite |
| hQM | Hbde. Qtz. Monzonite |
| hbQM | Hbde. Biot. Qtz. Monzonite |
| hMz | Hbde. Monzonite |
| hbMz | Hbde. Biot. Monzonite |
| hDi | Hbde. Diorite |
| hb Di | Hbde. Biot. Diorite |

CANADIAN OCCIDENTAL PETROLEUM LTD.

MINERALS DIVISION

PROJECT PRINIC

# ENEAS 1-5 CLAIMS

OSOYOOS MINING DIVISION, BRITISH COLUMBIA

N.T.S. 82 E 12W

## GEOLOGY

SCALE IN FEET

400 0 400 800 1200

AUGUST 1979

PLAN 1

Eneas 3

Eneas 1

Eneas 2

Eneas 5

T1S 6W

T1S 5E

0+00

16S

33S

40S

43+50S

49S

50+50S

56S

60S

65S

72S

74+50S

79+25S

87S

97S

107S

115+50S

120S

Base Line @ 0°

3ppm

10ppm

TN

22°

N

Inferred position of legal corner post 21743 (Eneas 5)

LEGEND

ppm Th △ ppm U
Sample Number

▲ Prob. Anomalous 2+ - 3ppm U

▲ Anomalous + 3ppm U

Anomalous ✳ >20ppm Th △

Claim boundary

MINERAL RESOURCES BRANCH
Assessment Report
NO. 7972

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
PROJECT PRINIC

# ENEAS 1-5 CLAIMS

OSOYOOS MINING DIVISION; BRITISH COLUMBIA
N.T.S. 82 E 12W

## ROCK GEOCHEMISTRY

SCALE IN FEET
400 0 400 800 1200

AUGUST 1979

PLAN 2.

Eneas 3

Eneas 1

Eneas 2

Eneas 5

Eneas 5

Inferred position of legal corner post 21745 (Eneas 5)

BASE LINE

N

CANADIAN OCCIDENTAL PETROLEUM LTD.

MINERALS DIVISION

PROJECT PRINIC

# ENEAS 1-5 CLAIMS

OSOYOOS MINING DIVISION, BRITISH COLUMBIA

N.T.S. 82 E 12 W

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 7972

## SOIL GEOCHEMISTRY
## URANIUM
### SAMPLE LOCATION AND VALUE

SCALE IN FEET

400 0 400 800 1200

AUGUST 1979

PLAN 3

LEGEND

- 1ppmU ○ Sample No.
- ◑ Peak Anomalous 3ppmU
- ● Anomalous +5ppmU
- ◆ Soil Pit Location (approximate)
- ◇ Organic Content 10%-20%
- ◆ Organic Content >20%
- Claim Boundary

Eneas 3

Eneas 1

Eneas 2

Eneas 5

Inferred position of legal corner post 2/3+5 (Eneas 5)

T.N.

MAG.

22°

LEGEND
U contours in ppm
10.0
5.0
3.0
1.0
Claim boundary

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
1972
NO.

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
PROJECT PRINIC

# ENEAS 1-5 CLAIMS

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
N.T.S. 82 E 12W.

## SOIL GEOCHEMISTRY
## URANIUM
## CONTOURED VALUES

SCALE IN FEET
400 0 400 800 1200

AUGUST 1979

PLAN 3a

Eneas 3

Eneas 1

Eneas 2

Eneas 5

Inferred position of legal corner post 21745 (Eneas 5)

T.L.56W

T.L.54E

TN

N

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 1972

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
PROJECT PRINIC

# ENEAS 1-5 CLAIMS

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
N.T.S. 82 E 12W

## SCINTILLOMETER SURVEY

LOCATION & VALUE OF SCINTILLOMETER READINGS

LEGEND
Readings in c.p.s.
Scintrex Model BGS-ISL at 1 sec.

- Reading in c.p.s.
- Prob. anomalous 115 cps
- Anomalous 145 cps
- Claim boundary

SCALE IN FEET
400 0 400 800 1200

AUGUST 1979

PLAN 4

Eneas 3

Eneas 4

Eneas 2

Eneas 5

Inferred position of legal corner post 21743 (Eneas 5)

TRUE NORTH

72°

MAG NORTH

LEGEND

Readings in c.p.s.
Scintrex Model BGS-ISL at 1 sec.

- $\bar{X}+2\sigma$ (anomalous)
- $\bar{X}+\sigma$ (probably anomalous)
- $\bar{X}$ mean
- claim boundary

MINERAL RESOURCES BRANCH

1972

CANADIAN OCCIDENTAL PETROLEUM LTD.

MINERALS DIVISION

PROJECT PRINIC

# ENEAS 1-5 CLAIMS

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
N.T.S. 82 E 12W

## SCINTILLOMETER SURVEY

RADIOMETRIC CONTOURS

SCALE IN FEET

400 0 400 800 1200

AUGUST 1979

PLAN 4a

Eneas 3

Eneas 1

Eneas 2

Eneas 5

Inferred position of legal corner post 21743 (Eneas 5)

A

B

Mz

Di

QM

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 7972

LEGEND

1979 SURVEY

Geology
Ap - Aplite
QM - Hbl ± Bi Qtz Monzonite
Mz - Hbl ± Bi Monzonite
Di - Hbl Bi Diorite

Soils
10 ppm U
5 ppm U
3 ppm U
Anomalous
Probably Anomalous

Radiometrics
Anomalous: + 142 cps
Prob. Anomalous: + 83 cps

Rocks
Anomalous: + 8 ppm U
Prob. Anomalous: + 2 ppm U

1978 SURVEY

Waters
Anomalous: + 20 ppb U
Significant: + 1 ppb U

Sediments
Anomalous: + 20 ppm U
Prob. Anomalous: + 10 ppm U

claim boundary

CANADIAN OCCIDENTAL PETROLEUM LTD.

MINERALS DIVISION

PROJECT PRINIC

# ENEAS 1-5 CLAIMS

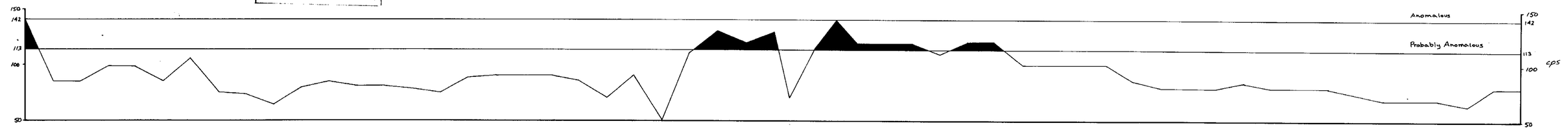
OSOYOOS MINING DIVISION, BRITISH COLUMBIA
N.T.S. 82 E 12 W

## COMPILATION OF GEOLOGY, SOIL GEOCHEMICAL AND RADIOMETRIC ANOMALIES

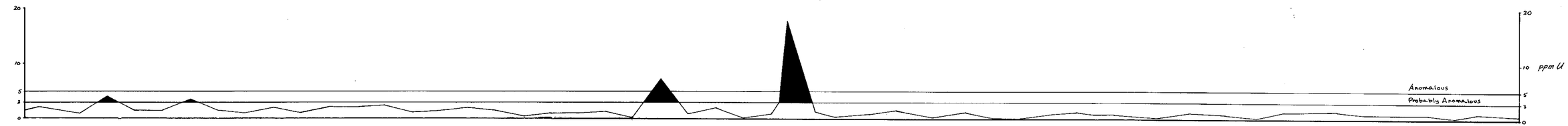
SCALE IN FEET
400 0 400 800 1200

AUGUST 1979

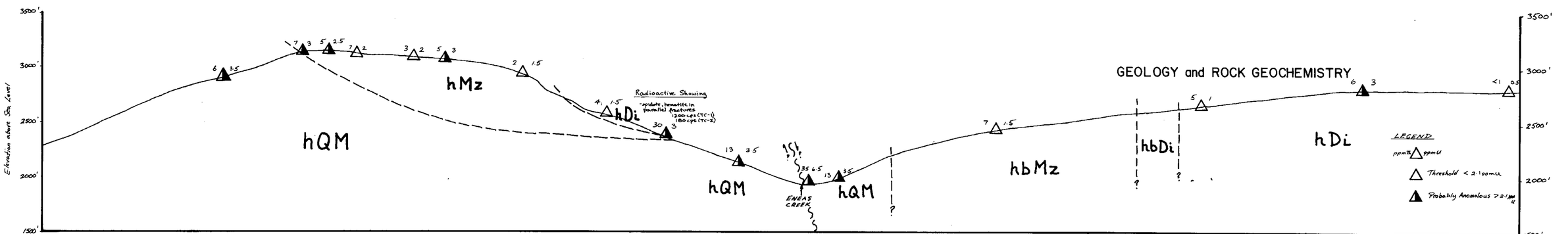
PLAN 5




RADIOMETRICS - counts per second (Scintrex model BGS-ISL)




ppm Uranium in soil (B horizon)




A

ENEAS CLAIMS - Schematic Vertical Section A-B (East to West) Looking North

Horizontal Scale 1"= 400'

Plan 5a

B