GM 31071

SUMMARY OF EXPLORATION WORK

Documents complémentaires

Additional Files

Licence

License

Énergie et Ressources naturelles
Québec

133 pages

SUMMARY OF EXPLORATION WORK
MONTVIEL TOWNSHIP CLAIMS
ABITIBI-EST DISTRICT QUEBEC

INTRODUCTION

During the time period August 1973 to November 1974, Duval International Corporation undertook an exploration program consisting of airborne magnetic and electromagnetic surveying, ground magnetic and electromagnetic surveying, prospection, trenching, and overburden sampling on a group of some 145 contiguous claims situated in Montviel Township, Abitibi-Est Territory, Quebec.

Total expenditure to date, including the airborne work, has been $65,780.26. Of this amount $11,953.70 (the cost of the airborne work) has already been submitted (1974) for assessment credit. The remaining $53,827.26 is submitted for credit at this time. Required expenditures on 130 claims for which renewal of development licences are applied for, is $20,800.00 or 4$ per acre on 5200 acres. The remaining $31,873.75 will be applied against subsequent renewals.

Appendix I gives a cost breakdown for the expenditures, excluding the airborne survey previously reported.

LOCATION AND ACCESS

The property is situated in Spruce and Jackpine forested terrain, in the central part of Montviel Township, some 50 air miles due east of Matagami, and 25 air miles north of Miquelon, Quebec.

Access is best achieved by helicopter from Matagami or Miquelon, but a canoe route can be followed using the Waswanapi, Inconnue and Noman's Rivers to enter the area from the south (Chibougamau-Seneterre Highway) or from Matagami via Goeland and Macaisagi Lakes to the west and north.

An airstrip for winter use by ski-equipped fixed wing aircraft, has been cleared out of a broad open muskeg swamp, to the east of the camp.

The newly completed Fort George Highway passes about 25 miles west-north-west of the claim group.

PREVIOUS EXPLORATION

The only recorded exploration information for the area consists of a program involving a Turam Survey and three diamond drill holes, completed by Jowsey Mining Company in 1958. The geophysical maps and drill logs were filed with the Quebec Ministere de Richesses Naturelles as assessment work. This work was concentrated on present claim Licences 325044, and 325045, with the drill holes on present claims Licences 325044-2, 325044-3, and 325044-5.

The core from the drill holes was relatively undisturbed, and has been re-organized and is stored near the Duval camp. Only weak values in lead, zinc and copper were found by Jowsey in the carbonate rich rocks drilled. The Turam anomalies were caused by concentrations of semi massive pyrite and local pyrrhotite in carbonate rich rock.

No exploration work has been reported for the area around Zone 1 at the southwest end of the claim block. Examination of the area, which was recently burned over, disclosed the presence of a survey grid, and drill platform. The electromagnetic conductor located here was apparently tested by Umex Exploration in 1970-71, and the work may be filed for the Township to the west of Montviel.

Previous Geologic Work

The area was mapped in 1949 by P.E. Imbault, (Geologic Report 60) for the Quebec Department of Mines. At that time, no aeromagnetic data was available for the area. Imbault included the claim block area within a metavolcanic belt intruded by the so called "Nomans Stock", a large granitoid mass interpreted to exist beneath most of the claim block. No outcrops were located near those found by the Duval work. Topographically, the claims occupy a low area surrounded by slightly higher elevation terrain.

EXPLORATION ACTIVITIES

Prospection and Geological Survey

The claim block lies in low, swampy land, drained by the Nomans River, and numerous smaller tributaries. A layer of clay underlies much of the drainage basin of this river, and its level varies considerably with rainfall, because there is little internal drainage. Travel on the river itself is fairly easy during high water periods, but at other times, beaver dams and log jams render travel arduous. Outcrops are rare and pace and compass traversing, covering most of the claim group, disclosed only three areas of exposure. Previous geologic mapping of this area (P. E. Imbault, 1949) did not document these bedrock locations.

Outcrop Area, Zone 1

A small exposure of medium to fine grained amphibolitic gneiss is located near the north end of line 4W on Zone 1. Foliations trend north westerly, and dip steeply to the northeast. No mineralization is present in the exposure. Numerous float fragments of migmatite, and biotite-amphibolite gneisses are present in the vicinity.

Outcrop Area 2, Zone 7

Several outcrops of medium grained, pinkish grey feldspathic gneiss are present at the southeast end of Zone 7, east and west of Line 64 west. Locally, these exposures are transected by numerous thin dark green, fine grained lamprophyric dykes or veinlets. A vague north easterly trending f[illegible]-iation is present.

Outcrop Area 3, Zone 8

A small outcrop flanking a sandy hillside was originally discovered using stereo pair air photos as a guide to topography. It is located just south of the Nomans River on line 56 East. Dark green medium to coarse grained amphibolitic material containing minor sulphide mineralization is exposed here, and a trench approximately 30 feet long, 3 feet wide, and 2 feet deep, was blasted out of the hillside. Structurally, there is little textural foliation or banding visible. The finer grained denser parts of the outcrop are not regular in distribution, and resemble a hornfels megascopically. Sulphide mineralization, mainly pyrite with minor chalcopyrite and galena, is sporadically disseminated throughout the rock mass, occasionally associated with irregular masses of pink potash feldspar.

Additonal prospecting in the vicinity failed to locate further exposures. Hilly country further south and east of this occurrence is underlain by sand and gravel ridges.

Float Occurrences

Several float fragments of lamprophyric rock were located near the Nomans River bank, north of the north end of Line 36 west. These are sub angular in character, and appear to be fairly close to their source. A small rapids to the west on the river contains boulders of similar material. Specimens are dark greenish grey, medium to fine grained and contain coarse patches of biotite. Fine white carbonate veinlets are locally present, and these occasionally contain traces of pyrite.

Elsewhere on the property, claim lines, traversing, failed to locate additional exposures.

Linecutting and Mnagnetometer Survey

Using the airborne survey data as a guide, a system of about 30 miles of grid lines, was cut to cover zones of interest located by the magnetic and electromagnetic airborne work.

This work began in January of 1974. Magnetometer surveying was completed over the grid lines, and for reference purposes zone numbers have been given to the various magnetically distinct features (see reference Index Map).

Survey Specifications

Grid-Line Spacing 400 feet, stations 100 feet.

Magnetic Survey Specifications Include:
Instrument - McPhar M-700, Fluxgate
Measured - Vertical Field Intensity
Station Spacing - 100 feet Std. or 50 feet over anomalous areas.
Sensitivity- 10 gammas on the 1k scale
- 25 gammas on the 3k scale
- 50 gammas on the 10k scale

Total Mileage - Approximately 40 miles (all grids)

Following completion of this work, additional linecutting (14 miles) and magnetic surveying, using the same equipment, was completed during July and November of 1974.

The work was done over claim Licence Numbers as Follows:

Zone 1	Licence 341723	Claims 1,2,5
	" 341722	Claims 3,4,5
Zone 7	Licence 341727	Claims 2,3,4,5
	" 341720	" 1
	" 334624	" 4
	" 334622	" 3
Zone 2	Licence 334622	Claims 1
	" 334621	" 4,5
	" 334619	" 4,5
	" 325044	" 1,2,3,4,5
	" 325045	" 1,3,4
Zone 4	Licence 325044	Claims 1
	" 325045	" 1
	" 334619	" 1
	" 334618	" 1-5
	" 334617	" 5
	" 325045	" 2
	" 325046	" 1,2
Zone 8	Licence 325047	Claims 4,5
	" 334615	" 1
Zone 5	Licence 334615	Claims 3
	" 341725	" 1,2,4,5,
	" 341724	" 1-5
	" 341726	" 1,2

The magnetometer work was done by Messrs. L. Mealey, J-P Ducharme, and W. Troup. During February and November of 1974, contouring was done by J. Janeicz.

The survey results are presented on separate sheets for Zone 1, Zones 2,4, and 7, and Zones 5 and 6.

Results verify the existence of strongly magnetic features underlying each of these areas, and have provided more detail than the airborne work. Line to line correlation, along magnetic features, is better, and contours are less herring boned.

Electromagnetic Surveying

Induction type horizontal and vertical loop electromagnetic surveying was completed over portions of the claim area, where bedrock conductivity was indicated by the airborne surveying. The areas covered include parts of Zones 1,2,4,5 and 6.

Survey specifications were as follows:

Instrument - Crone CEM
Methods - Vertical Loop Fixed Transmitter
- Horizontal Loop (In Phase only)
Frequencies - HI=5010 Hz, Med=1830 Hz,Lo=390 Hz
Coil Separation - 300-700 feet depending on methods.
Sensitivity - $\pm$ 1 degree dip angle
- $\pm$ 2½% Field Strength Unit
Readings - Every 100 feet or 50 feet
Operator - L. Barker, J. Tower, G.McKillop
(Duval Personnel)
Survey Period - February - March, 1974
Total Mileage - 9.8

Zone 1

Horizontal loop field strength surveying here disclosed the presence of a strong conductor trending at about 55° to the interpreted strike from the airborne data. The strongest part of the anomaly coincides with the best airborne response, but the north easterly trend indicated from the airborne was not detected on the ground. Rather the zone trends north westerly and parallels the foliation visible in the outcrop on line 4W at the north end.

No definite assymetry is evident from the profiles to interpret a dip direction from the source, but this may be due to the acute angle of intersection of the survey line and the strike of the conductor axis. Overburden is interpreted as very shallow, and the ratio of the High to Low frequency readings indicates a good conductor. Lines 0-0 and 12W did not go far enough to detect more than the shoulders of the anomaly profile, but they indicate

a weakening laterally. Discovery of an old drill set up, and indications of a previous survey grid, suggest that the anomaly area has been tested.

Zone 7

Two lines of Horizontal Loop field strength readings were run over the strongest part of the magnetic anomaly present in this part of the claims. Objective was to check for bedrock conductivity not previously located by the airborne data. No significantanomalism was found.

Zones 2 and 4

The Zone 2 area encompasses part of the area surveyed using Turam type methods by Jowsey in 1958. Horizontal Loop field strength readings were taken using a 300 foot coil separation and Hi and Low frequencies.

The readings were quite noisy, partly due to the conductive overburden present, and also a faulty coil. Results at High and Low frequencies indicate at least 3 separate conductive axes trending nearly east-west, across the grid. These weaken and disappear on lines 8W and 36W, giving a total strike length of about ½ mile. Magnetic correlation indicates the axes to be flanking the magnetic anomaly zone, which makes up this part of the grid. The three Jowsey drill holes appear to have tested the two northerly axes (the strongest) and core examination indicated sections of semi massive pyrite with some pyrrhotite to be the source. A magnetic rich section, logged from DDH 1 appears to explain the magnetic peak into which the hole was directed.

No dip estimates are easily interpreted from the EM, although the high and low frequency profiles on Line 16W are assymetric enough to judge a 75-80° southerly dip for the source. The magnetics and foliations measured from the core indicate this southerly dip to be valid.

The two northerly EM axes appear to merge together on line 16W, and a drill hole to test the anomaly on this line would be worthwhile.

The Zone 4 portion of the grid was surveyed using the Horizontal Loop field strength method, a coil separation of 300 feet, and high and low frequencies.

Object of this work was to detect an airborne Dighem anomaly located on this portion of the claims. Lines 8E and 12E were surveyed, using the Horizontal Loop techniques, and conductor axes were located at about 37+00N, and 37+50N, on each line respectively.

Failure of the low frequency portion of one of the coils, and noisy nature of the readings compelled a change to Vertical Loop, fixed transmitter methods; and lines 16E, 12E, 8E, and 4E were re-surveyed using transmitter set ups near the axes on lines 12E and 8E. 400 foot coil spacings were utilized. The conductive zone located is weak to moderate in strength, and appears to be quite narrow. The High Frequency Horizontal Loop profiles on lines 8E and 12 E indicate a steep southerly dip. The zone is on the south flank of a linear magnetic feature trending north easterly across the grid. Additional EM Surveying should be undertaken east of Line 16E on lines 0-0, and 4W to delimit the extent of the zone. Due to its isolation, a drill test would be adviseable.

Zones 5, 6

Reconnaissance EM Surveying was undertaken to attempt location of the single line Dighem responses located in this part of the claim area.

The airborne indicated a very deeply buried source for both anomalies, and the ground work was somewhat inconclusive. A Horizontal Loop field strength profile was run down line 68E to try and locate the Zone 5 response. Readings on High and Low frequencies were quite noisy, but a weak indication of subsurface conductivity can be seen on the low frequency profile at about 22+50 south. Coil separation used was 300 feet, so effective depth of the survey is only about 150 feet.

A vertical loop fixed transmitter search square type reconnaissance was then attempted using the ground location of the airborne response (line 72E) as a transmitter setup. High frequency dip angle readings on lines 76E, 15 South, 68E and 25S failed to indicate any anomalous zones. The airborne response from Zone 5 is located on the south flank of a strongly magnetic area.

The Zone 6 airborne response similarly did not give much of an indication using Horizontal Loop field strength measurements. Vertical Loop fixed transmitter profiles, run using a transmitter set up on line 72E near the airborne location, detected weakly anomalous indications on line 68E at about 47+00 South. Surveying from this crossover, on line 72E, failed to detect a good anomaly. The profile on 72E read from a transmitter at 42+50S on line 68E, gave a weak crossover at about 41+00S. Using this location as transmitter and reading back on line 68E, a fairly good crossover (6° either side) was located at 43+50S. These crossovers on lines 68E and 72E may represent the source of the anomaly, but detailed wide separation Horizontal loop, or Turam work should be attempted to properly test the area. A narrow magnetic anomaly on lines 64E, and 68E, gives a ½ width depth estimate of only about 50-75 feet, indicating that overburden may not be as deep as indicated from the airborne. This magnetic feature should be checked for associated conductivity.

Basal Till, Overburden Sampling Program

A program of basal till sampling was initiated to gain geochemical information into the nature of mineralization that might be associated with the various conductor zones, and magnetic features outlined during the geophysical work. The known lead and zinc mineralization, from the Jowsey drilling, was selected as an area to begin the work, since something of the bedrock mineralization was known, as were the depths of overburden, and overburden character from the Jowsey drill records.

Adcura Ltd. of Ottawa, Ontario, was engaged to do this work, which was done under the supervision of R. Cormier, during February, March and April, of 1974, with additional work in July of 1974. Analytical work was completed by Bondar Clegg and Company of Ottawa, Ontario.

The technique used involved hammering a metal sampler in vertical holes down through the overburden to the bedrock interface and basal till layer. The sampler is then opened, and further hammering forces a sample into the opening. The sampler and rods are then withdrawn using a hydraulic or hand jack. Boulders hamper the operation and there is always uncertainty as to whether a true basal till has been sampled (if it indeed exists in the area), or if the sample does come from the bedrock interface.

A total of about 2100 feet of drilling in some 46 holes was completed.

The method proved partially satisfactory, especially in areas near the old drilling. Coverage was more detailed on Zone 2, and profiles were run across the conductor axis on Zone 1, Zone 4, and the magnetic anomaly of Zone 7. A reconnaissance profile, with samples spaced every 1000 feet, was run across a broad magnetic low area evident from the airborne data along line 112W.

Uncertainty in reaching bedrock with the method, as well as logistics difficulties, were encountered, and hampered the program somewhat. Depths of holes varied from 5 feet to over 100 feet, with the average being roughly 50 feet. The overburden seems to thicken considerably south of the Zone 2 baseline.

Appendix II gives copies of the overburden drilling logs.

Analytical Results

Each sample was cleaned, and a heavy mineral separation made, using a heavy liquid S.G. 2.96. Various analyses were made on both the heavy and light fractions, and mineral identifications were done on the heavy fractions of the samples.

Appendix III summarizes the results of the basal till analytical work, and gives histograms for the data.

Generally, it can be concluded that lead and zinc are the two elements that seem to best give an expression of the mineralized material located by the Jowsey drilling. Histograms indicate that values of greater than 100 ppm copper, 200 ppm zinc, and 60 ppm lead, can be considered anomalous. Early samples were also analyzed for Uranium and Thorium, and threshold values for these elements can be considered as 1 ppm and 15 ppm respectively.

Spectographic semi quantitative analyses were made on many of the earlier samples (-80 mesh fraction only). Results are in the Appendix III compilation. The method was not deemed to add any useful information.

Highlights of the basal till heavy fraction analyses are plotted on the compilation sheet for Zones 2, 4, and 7, and on the electromagnetic survey map for Zone 1. Barite content from the heavy mineral identification is also plotted.

For several samples, insufficient material was available for analyses.

Since the Jowsey core was rich in carbonate, it was felt that carbonate content of the light basal till fraction would aid in delimiting similar areas. Leach tests and visual examinations, however, failed to indicate any significant variations between samples checked. Carbonate visual estimates, and leach volumes, were all quite low (See Appendix III).

The mineralized area around the old Jowsey drilling has a good lead-zinc expression. Heavy boulders, south of this zone, hampers use of the small percussion type drill. Sample 52 on line 20W gave a good strong Cu, Pb-Zn response, and should be followed up with more sampling north southeast and west of the Hole 52 location. The magnetic trend north of this site, could be representative of a similar geologic situation to Zone 2.

No anomalous base metal values were obtained from the samples taken across the Zone 1 conductor axis. The numerous boulders in the area, however, may have prevented the sampler from reaching to a true basal till horizon.

The profile of samples along 112W, gave no anomalous values. Barite content on one or two samples seemed slightly high, but barite seems to be ubiquitous in all the heavy fractions, and no definite trends can be seen.

During the course of the July, 1974, overburden sampling, a packsack drill and associated equipment was brought to the property to try and obtain bedrock samples, by using the percussion holes already completed.

The technique proved unworkable due to the heavy amounts of clay at the top of the hole, which plugged the core rods. The small pump supplied with the packsack machine was incapable of clearing the rods.

Diamond Drill Core Analytical Work

Fortunately, the Jowsey drill core had been stored in aluminum boxes with the footages engraved into the metal. Most of it was intact, and the boxes were reorganized, and moved to the Duval camp. Approximately 15% had been dumped following collapse of the old core rack. No assay results were given on the Jowsey logs, and all the core was resampled and analysed for base metals, Uranium, Thorium and Columbium. Spectrographic semi-quantitative analyses were also run on some of the samples. Core Analystical work was by X-Ray Assay Laboratories Ltd., Don Mills, Ontario.

Appendix IV presents the results of the analyses. Certain sections of the core are anomalous in Thorium, Uranium, Lead, Zinc, and Columbium. Anomalous amounts of Strontium and rare earth group elements are indicated from several of the Spectrographic scans.

The anomalous base metal results provide an explanation for the high lead and zinc contents of the heavy fractions from basal till samples near the drill holes.

Visually, the drill core does not appear to have as much zinc mineralization as lead, however, the analytical results seem to indicate the reverse is the case. Zinc mineralization is likely more finely disseminated and difficult to see visually, giving an impression of lesser quantity than the lead, which occurs as randomly distributed 1-3mm crystals of galena.

SUMMARY AND CONCLUSIONS

An exploration program of Basal Till overburden sampling, and ground geophysics, completed over the Montviel property, has indicated several targets for additional evaluation, in a complexly mineralized intrusive environment. A progression of this work should involve a diamond drilling program to assess the relationship between rock type, mineralization and the geophysical-geochemical data accumulated to date. Lack of exposure renders geologic interpretations very difficult at this stage, and core drilling will be a necessity for the next phase of exploration.

Respectfully submitted,

A. L. Barker,
District Geologist,
Duval International Corporation.

APPENDIX I

COST BREAKDOWN

Linecutting - Airstrip Clearing

1. Canwild Explorations

Total Mileage: 29.8411		Costs:	2,384.11
2. J. P. Belisle	: 14.75	Costs:	1,843.75
3. P. Nabigon, A. Brown	: Airstrip (100'x3500')	Costs:	4,351.95

Magnetometer Surveying

1. Canwild Explorations 29.8411 miles	Costs:	1,492.06
2. Jan Janeicz contouring "	Costs:	200.00

Helicopter Charter Cost total: Aug.1973 to Apr.1975 : 24,285.06
(Trans Quebec Helicopters)

Overburden Sampling - Feb.Mar.Apr.1974,July-Aug/74 : 7,020.48
(Adcura Ltd.)

Packsack Drill Rental & Supplies 695.77

General Expenses, Camp, Aug.1973-May 1975
Groceries, Fuel etc. 2,163.60

Analytical Expense

1. X-Ray Assay Laboratories Ltd.(core analysts)	1,310.50
2. Bondar Clegg & Co. Ltd.(basal till analyses)	2,027.48

Salaries - Duval Personnel

1973 September	L. Mealey	10 days	$ 350.00
	D. Lyman	10 days	350.00
1973 October	L. Barker	4 days	220.00
	D. Lyman	4 days	140.00
1974 January	L. Mealey	1½ days	42.50
	L. Barker	3 days	165.00
1974 February	L. Mealey	17 days	595.00
	L. Barker	10 days	550.00
	J. Tower	10 days	350.00
	G. McKillop	5 days	175.00
1974 March	J. Tower	2 days	70.00
1974 April	L. Barker	5 days	275.00
	J. Tower	5 days	175.00
1974 June	J. Ross	7 days	245.00
	L. Barker	7 days	385.00
	L. Mealey	7 days	245.00
1974 July	P. Hawkins	7 days	140.00
1974 August	L. Barker	7 days	385.00
(local laborer)	B.Demill	7 days	140.00
1974 November	W. Troup	5 days	175.00
1975 April	L. Mealey	3 days	175.00
	J. Ross	3 days	105.00

Total Labour costs 5,452.50

Total of all costs Excluding Airborne Survey to Date: $53,827.26

A.W. Barker, P.Eng.
District Geologist

HELICOPTER EXPENSE ALLOCATION

1.	Prospection, Trenching	$ 2,906.76
2.	Magnetic Survey, Linecutting	6,747.49
3.	Overburden Drilling	10,199.14
4.	EM Surveying	1,741.35
5.	Airstrip Clearing	1,419.98
6.	General, Radio Rental, Fuel Transport, Maintenance, Etc.	1,270.34
	TOTAL	$24,285.06

A V Barker, P.Eng
District Geologist
Duval International
Corporation

APPENDIX IA

MAJOR CONTRACTOR INVOICES

November 8, 1974

Duval International Corporation,
Ste. 906, 11 Adelaide St. W.,
TORONTO.

IN ACCOUNT WITH DUVAL INTERNATIONAL CORPORATION RE MONTVIEL AREA - AIRSTRIP CLEARING.

FINAL BILLING:	Contract Total	$3,500	
	Less Advance #1 - Oct.9	1,000	Tor-Sask
	Less Advance #2 - Nov.1	500	Sask
	Less Advance #3 - Nov.7	500	Tor
	Amount Owing	$1,500	
	Plus: Food receipts	351.95	
	Job bonus	500.00	
	Total Amount Owing		$2,351.95

Approved for Payment
A.T. Barker Nov 7 1974
charge 37-106-761

351.95

INVOICE

VAL D'OR, Aug. 16/74

DUVAL INTERNATIONAL CORPORATION,
suite 906,
11 Adelaide Street, West,
Toronto 105, Ont. Can.

Attention Mr. A.L. Barker

Line cutting in Montviel township : 11 3/4 miles at $125.00 per mile

TOTAL $1843.75

less Advance 400.00

Make cheque to : Jean Paul Bélisle
81 Des Saules Street,
Val d'or, P.Q.

Total owing 1443.75

Jean Paul Bélisle

approved for payment 1443.75
A Barker Aug 20-1974

Charge 37-106-761

RECEIVED
AUG 21 1974
Ans'd .....

CANWILD EXPLORATION

c/o 230 McCOMBER CRESCENT

THUNDER BAY ONTARIO

February 26, 1974

DuVal International Corporation,
Ste. 906,
11 Adelaide Street W.,
Toronto, Ontario
M5H1L9

Attention: Mr. A. L. Barker

FINAL STATEMENT OF ACCOUNT

Balance statement : Re. work performed for DuVal International Corp. Ltd.

Project: Montviel Township, Quebec January 6/74-February 22/74

Line Grid and Magnetometer Survey:
(as per grid maps mailed under separate cover)

Zone I-22,401'	= 4.2426 Miles	
Zone II&IV-62,100'	=11.7614 Miles	
Zone V & VI-46,600'	= 8.8258 Miles	
Zone VII -26,460'	= 5.0113 Miles	
Total Mileage	29.8411	4476.16
29.8411 Miles @~~$100.00~~ $150.00		~~$4,774.58~~
Claim Staking: 40 Claimes @~~$80.00~~ $50.00		~~2,400.00~~ 2000.00
Recordings (Receipt under Separate Cover)		81.50
U.S.A. Exchange on Cheque #117257 (attached)		61.50
TOTAL CONTRACT		~~$7,317.58~~ $6619.16
Less: Advance Jan 4/74 Pd.	$2,000.00	
#1 Interim Feb 20/74 Pd.	2,000.00	
#2 Interim Feb 21/74	2,000.00	6,000.00
BALANCE DUE		~~$1,317.58~~ $619.16

RUSH PAYMENT IN CANADIAN FUNDS APPRECIATED

APR 4 1974

TEL. 368-4271

INVOICE

DIAMOND DRILLING CONSULTANTS

SUITE 523, 67 YONGE STREET, TORONTO, ONTARIO M5E 1J8

SOLD TO: Duval International Corporation,
Suite 906, 11 Adelaide St., W.
Toronto, Ont.

SHIPPED TO:

VIA Pick-up

CUSTOMERS ORDER NO.	Verbal Mr. A. L. Baker
OUR ORDER NO.	
INVOICE NO.	5159
DATE	June 26, 1974.
FEDERAL SALES TAX	12%
PROVINCIAL SALES TAX	Exempt
PAYMENT	

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	2	"XRT" CORE BITS	$60.72	$121.44
2	2	" REAMING SHELLS	76.50	153.00
3	1	"XRL" CASING SHOE (5.45 CTS.)		88.63
4	12	PACK TRAYS	1.70	20.40
	1	PACKSACK DRILL & EQUIPMENT RENTAL		300.00
				$683.47
		12% Federal Sales Tax on setting $103.00		12.30
				$695.77
		By cheque, Drill rental June 26, 1974 to July 26, 1974	TOTAL PAID	300.00
				$395.77
		Deposit on equipment $100.00		

PAID JUL 19

WE BUY, SELL, OR RENT DRILLS & EQUIPMENT
DRILLING CONTRACTS ARRANGED & PLACED.
DIAMOND DRILL RUNNERS SUPPLIED.

PER

INVOICE

TEL. 368-4271

DIAMOND DRILLING CONSULTANTS

SUITE 523, 67 YONGE STREET, TORONTO, ONTARIO M5E 1J8

CUSTOMERS ORDER NO	
OUR ORDER NO.	
INVOICE NO. [illegible]	DATE [illegible]
FEDERAL SALES TAX	
PROVINCIAL SALES TAX	
PAYMENT	

SOLD TO: Dural International Corporation,
Suite [illegible], 11 Adelaide St., West,
Toronto, Ont.

SHIPPED TO:

VIA

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
	1	PACKSACK DRILL & EQUIPMENT RENTAL		
		JULY 26th to AUGUST 26th		#300.00

rcd July 25/74

charge Montreal Association.

WE BUY, SELL, OR RENT DRILLS & EQUIPMENT
DRILLING CONTRACTS ARRANGED & PLACED.
DIAMOND DRILL RUNNERS SUPPLIED.

PER [signature]

ADCURA LTD.

A DIVISION OF
BONDAR-CLEGG & COMPANY LTD.

TELEPHONE (613) 237-3110
764 BELFAST ROAD
OTTAWA, ONTARIO, CANADA
K1G 0Z5

August 30, 1974.

INVOICE NO: 146

TO: Mr. Lee Barker,
Duval International,
906 - 11 Adelaide Street West,
Toronto, Ontario.

Re: Overburden drilling, Montviel, Quebec, August/74.

3 days overburden drilling @ $175.00 per	$525.00
1 day mobilization @ $100.00 per	100.00
Richard Lacoursiere expense account	19.20
Equipment Loss:	
6 feet rods @ $5.00 per	30.00
	$674.20

PLEASE MAKE CHEQUE PAYABLE TO:

ADCURA LTD.
764 BELFAST ROAD,
OTTAWA, ONTARIO K1G 0Z5

ADCURA LTD.

A DIVISION OF
BONDAR-CLEGG & COMPANY LTD.

TELEPHONE (613) 237-3110
764 BELFAST ROAD
OTTAWA, ONTARIO, CANADA
K1G 0Z5

July 31, 1974.

INVOICE NO: 140

FILE MONTVIEL

Mr. Lee Barker,
Duval International,
906 - 11 Adelaide Street West,
Toronto, Ontario.

Re: Overburden drilling, Montviel, Quebec, July /74.

3 days overburden drilling, 2 men @ $175 per	$525.00
6 days overburden drilling, 1 man @ $150 per	900.00
1 day mobilization @ $100	100.00
Richard Lacoursiere expense account (to July 13, 1974)	24.52
	$1,549.52
Less: Advance, cheque number 17484	1,000.00
Amount this Invoice	$549.52

Approved
Aug 9-1974
& forwarded to
Vancouver

charge
32-10-761

PLEASE MAKE CHEQUE PAYABLE
TO: ADCURA LTD.
764 BELFAST ROAD,
OTTAWA, ONTARIO. K1G 0Z5

ADCURA LTD.

A DIVISION OF
BONDAR-CLEGG & COMPANY LTD.

TELEPHONE (613) 237-3110
764 BELFAST ROAD
OTTAWA, ONTARIO, CANADA
K1G 0Z5

April 30, 1974.

INVOICE NO: NO. 114

TO: Mr. Lee Barker,
Duval International Corporation,
906 - 11 Adelaide Street West,
Toronto, Ontario.

Re: Overburden drilling, Montviel, Quebec, February, March and April, 1974.

22 days overburden drilling @ $175 per day		$3,850.00
2 days mobilization - demobilization @ $75 per day		150.00
3 days supervision, R. Cormier @ $100 per day		300.00
Equipment loss:		
50 feet rod @ $4.00 per foot	$200.	
2 small samplers @ $80 per	160	
		360.00
D. Fontaine expense account		16.00
Rene Lacoursiere expense account		61.84
Roch Cormier expense account		04.92
		$4,796.76
LESS: Cheque dated 1/23/74	$1,500.00	
Cheque number 120406	$2,000.00	$3,500.00
	AMOUNT THIS INVOICE	$1,296.76

E. S. JANIEC
7. HEATH ST. E. Apt 5
TORONTO 7. ONT.

Re - drafting

DATE		HOURS
7 march	—	5.0
8 " "	—	6.5
9 "	—	3.5
10 "	—	6.5
11 "	—	4.5
13 "	—	5.0
14 "	—	3.5
15 "	—	3.5
16 "	—	2.0

Total 40.0 @ 5" = $200.00

Montreal

E. S. Janiec

March 18/74.

MAGNETIC
CONTOURING

APPENDIX II

OVERBURDEN DRILLING LOGS

DF

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4DF 3001	1	26/2/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
47'	D.F J.F	Dural
LINE:	**STATION:**	**LOCATION:**
24 West	6+00N	montreal

DRILLING TIME

POINT STARTED: 8 1/2 — SAMPLER STARTED: 10 1/4

POINT STOPPED: 9 1/2 — SAMPLER STOPPED: 11 1/4

POINT EXTRACTED: 10 — SAMPLER EXTRACTED: 12.

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2	Organic	ORGANIC	%
2	35	glaise	CLAY	%
35	41	gravel	SILT	%
41	47	till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

DF.

OVERBURDEN DRILLING LOG

4DF 3002

SAMPLE NO:	DRILL HOLE NO:	DATE:
	2	27/2/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
90	D.F. J.F	Dural
LINE:	**STATION:**	**LOCATION:**
24 W. Baseline	0+00m.	montreal

DRILLING TIME

POINT STARTED: 1 — SAMPLER STARTED:

POINT STOPPED: 2 1/2 — SAMPLER STOPPED:

POINT EXTRACTED: 3 1/4 — SAMPLER EXTRACTED:

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
1	2	Organic	ORGANIC	%
2	60	glaise	CLAY	%
60	80	gravel	SILT	%
80	90	till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4 D.F 3DD 2	2	1/3/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
9D	D.F J.F	Duval
LINE:	STATION:	LOCATION:
24 W.	Baseline	Montréal

DRILLING TIME

POINT STARTED: 9.DD — SAMPLER STARTED: 11 1/4

POINT STOPPED: 10.-1/4 — SAMPLER STOPPED: 12-1/4

POINT EXTRACTED: 11 — SAMPLER EXTRACTED: 12 1/2

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2	organic	ORGANIC	%
2	60	glaise	CLAY	%
60	80	gravel	SILT	%
80	90	till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
3DD2, 4D.F	2	28/2/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
9D	D.F J.F	Duval
LINE:	STATION:	LOCATION:
24 W.	Baseline	Montréal

DRILLING TIME

POINT STARTED: 9 — SAMPLER STARTED: 12 1/2

POINT STOPPED: 10 - 1/4 — SAMPLER STOPPED: 1 1/2

POINT EXTRACTED: 11 1/2 — SAMPLER EXTRACTED: 3,00

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
			ORGANIC	%
			CLAY	%
			SILT	%
			FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS: Le sample n'a pas ouvert et en le ouvrant il a cassé.

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4 D.F. 3003	3	1/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
70	D.E. J.F	Duval
LINE:	**STATION:**	**LOCATION:**
20 West	3+50 sud	Montréal

DRILLING TIME

POINT STARTED: 1.1/4 — SAMPLER STARTED: 3.1/2

POINT STOPPED: 2,00 — SAMPLER STOPPED: 4,00

POINT EXTRACTED: 3-1/4 — SAMPLER EXTRACTED: 5.00

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2	Organic	ORGANIC	%
2	56	Clay	CLAY	%
56	65	Gravel	SILT	%
65	70	till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO:	DATE:
4 D.F. 3004	4	2/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
43.6	D.F. J.F	Duval
LINE:	**STATION:**	**LOCATION:**
20 West	Baseline	Montréal

DRILLING TIME

POINT STARTED: 8,00 — SAMPLER STARTED: 9 1/2

POINT STOPPED: 8 1/2 — SAMPLER STOPPED: 10 1/4

POINT EXTRACTED: 9,00 — SAMPLER EXTRACTED: 11

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2	Organic	ORGANIC	%
2	35	gravel glaise	CLAY	%
35	41	gravel	SILT	%
41	43.6	till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%
		Dense Diam		

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4 D.F 3005	5	2/3/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
67	D.F J.F	Duval
LINE:	STATION:	LOCATION:
28	Baseline	Montreal

DRILLING TIME

POINT STARTED: 12 1/2 — SAMPLER STARTED: 2.00

POINT STOPPED: 1 1/4 — SAMPLER STOPPED: 3.00

POINT EXTRACTED: 1 3/4 — SAMPLER EXTRACTED: 4.00

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	2	organic	ORGANIC %
2	40	glacial gravel	CLAY %
40	63		SILT %
63	67	till	FINE SAND %
			MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4 D.F 3006	6	10/3/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
11	D.F, C.P	Duval
LINE:	STATION:	LOCATION:
8 W.	3+00 S	Montreal

DRILLING TIME

POINT STARTED: 1.00 — SAMPLER STARTED: 2 1/4

POINT STOPPED: 1 1/2 — SAMPLER STOPPED: 3 - 1/4.

POINT EXTRACTED: 2.00 — SAMPLER EXTRACTED: 3.1/2

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	4	Water	ORGANIC %
4	8	glaise	CLAY %
8	11	gravel	SILT %
		No Till	FINE SAND
			MEDIUM SAND
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

8 mille de oki Dan
a faire

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D F 3007	7	11/3/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
* 5	D.F. e.P	Duvel
LINE:	STATION:	LOCATION:
8 West	5 700S	Montréal

DRILLING TIME

POINT STARTED: 9.00 — SAMPLER STARTED: 10 1/2

POINT STOPPED: 9 1/2 — SAMPLER STOPPED: 11.00

POINT EXTRACTED: 10.00 — SAMPLER EXTRACTED: 11. 1/2

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	1	Organic	ORGANIC %
1	5	gravel	CLAY %
			SILT %
			FINE SAND %
			MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO.	DRILL HOLE NO:	DATE:
4D F 3008	8	11/3/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
10	D.F. e.P.	Duvel
LINE:	STATION:	LOCATION:
8 West	6+50 S	Montréal

DRILLING TIME

POINT STARTED: 12 1/2 — SAMPLER STARTED: 2.00

POINT STOPPED: 1.00 — SAMPLER STOPPED: 2 3/4

POINT EXTRACTED: 1 1/2 — SAMPLER EXTRACTED: 3 1/2

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	6.	organic	ORGANIC %
6.	9	gravel	CLAY %
9	10	till	SILT %
			FINE SAND %
			MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F. 3009	9	12/3/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
6	D.F. C.P.	Duval
LINE:	STATION:	LOCATION:
8 West	8+00S	Montreal

DRILLING TIME

POINT STARTED: 9.00 — SAMPLER STARTED: 10 1/4

POINT STOPPED: 9, 1/2 — SAMPLER STOPPED: 11-1/4

POINT EXTRACTED: 10. — SAMPLER EXTRACTED: 11 1/4

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1.6	Organic	ORGANIC	%
D6	5	gravel	CLAY	%
5	6	till	SILT	%
			FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F. 3010	10	12/3/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
15	D.F. C.P	Duval
LINE:	STATION:	LOCATION:
8W.	10+00S	Montreal

DRILLING TIME

POINT STARTED: 12 — SAMPLER STARTED: 1 1/2

POINT STOPPED: 13-1/4 — SAMPLER STOPPED: 2.00

POINT EXTRACTED: 1 1/4 — SAMPLER EXTRACTED: 2 1/2

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1	Organic	ORGANIC	%
1	13	gravel	CLAY	%
13	15	till	SILT	%
			FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F. 3011	11	13/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
11	D.F. C.P.	Dural
LINE:	**STATION:**	**LOCATION:**
4 West	12+00S	Montréal

DRILLING TIME

POINT STARTED: 3.00 — SAMPLER STARTED: 4 1/4

POINT STOPPED: 3 1/2 — SAMPLER STOPPED: 4 3/4

POINT EXTRACTED: 4.00 — SAMPLER EXTRACTED: 5.00

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	1	Organic	ORGANIC %
1	10	gravel	CLAY %
10	11	till	SILT %
			FINE SAND %
			MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F 3012	12	20/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
24	D.F. C.P.	Dukal
LINE:	**STATION:**	**LOCATION:**
76 West	32+00 N	Montréal

DRILLING TIME

POINT STARTED: 3 1/2 — SAMPLER STARTED: 4.45

POINT STOPPED: 4.00 — SAMPLER STOPPED: 5.1/4

POINT EXTRACTED: 4.1/2 — SAMPLER EXTRACTED: 5,45

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	1	Organic	ORGANIC %
1	11	glaise	CLAY %
11	22	gravel	SILT %
22	24	& Till	FINE SAND
			MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F	13	21/3/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
18	D.F. C.P.	Dural
LINE:	STATION:	LOCATION:
76 W.	37+00 NORD	Montréal

DRILLING TIME

POINT STARTED: 8.00 SAMPLER STARTED: 9 1/4

POINT STOPPED: 8.1/2 SAMPLER STOPPED: 9.45

POINT EXTRACTED: 9.00 SAMPLER EXTRACTED: 10 1/4

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1	organic	ORGANIC	%
1	9	glaise	CLAY	%
9	18	gravel	SILT	%
			FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

L1 R.L.

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F. 3014	14	21/3/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
23	D.F. C.P	Dural
LINE:	STATION:	LOCATION:
76 W.	42+00 N	Montréal

DRILLING TIME

POINT STARTED: 12 1/2 SAMPLER STARTED: 12 1/2

POINT STOPPED: 11 SAMPLER STOPPED: 1.00

POINT EXTRACTED: 11 3/4 SAMPLER EXTRACTED: 1.1/2

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1	organic	ORGANIC	%
1	9	glaise	CLAY	%
9	22	gravel	SILT	%
22	23	till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

4D.F.

SAMPLE NO:	DRILL HOLE NO:	DATE:
D.F. 3015	15	21/3/73
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
22	D.F. C.P.	Duval
LINE:	STATION:	LOCATION:
76 W	47+00 N	Montréal

DRILLING TIME

POINT STARTED: 2 1/4 — SAMPLER STARTED: 3.45

POINT STOPPED: 3.00 — SAMPLER STOPPED: 4.1/4

POINT EXTRACTED: 3.1/2 — SAMPLER EXTRACTED: 4.45

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1	organic	ORGANIC	%
1	12	glaise	CLAY	%
12	22	gravel	SILT	%
			FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F. 3016	16	22/3/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
21	D.F. C.P.	Duval
LINE:	STATION:	LOCATION:
76 W.	52+00 N	Montréal

DRILLING TIME

POINT STARTED: 8.00 — SAMPLER STARTED: 9 1/2

POINT STOPPED: 8 1/2 — SAMPLER STOPPED: 10.

POINT EXTRACTED: 9.00 — SAMPLER EXTRACTED: 16 1/2

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1	organic	ORGANIC	%
1	10	glaise	CLAY	%
10	20	gravel	SILT	%
20	21	till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3030	#24	9/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
13'3"	RL, LR	DUVAL
LINE:	**STATION:**	**LOCATION:**
44+00W	0+00	MONVIEL

DRILLING TIME ZONE Z

POINT STARTED:	2'30	SAMPLER STARTED:	3'
POINT STOPPED:	2'45	SAMPLER STOPPED:	3'10
POINT EXTRACTED:	2'55	SAMPLER EXTRACTED:	3'15

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	4"	ORGANIC	ORGANIC	%
4"	3'	CLAY	CLAY	%
			SILT	%
			FINE SAND	%
			MEDIUM SAND	%
3'	9'	COARSE SAND	COARSE SAND	%
9'	13'3"	GRAVEL	GRAVEL	%
			PEBBLES	%
13'3"		SUB OUT CROB		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3024	#26	6/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
51'	RL, LR	DUVAL
LINE:	**STATION:**	**LOCATION:**
8+00E	26+00N	MONTVIEL

DRILLING TIME ZONE-4

POINT STARTED:	11'10	SAMPLER STARTED:	1'
POINT STOPPED:	11'45	SAMPLER STOPPED:	1'35
POINT EXTRACTED:	12'45	SAMPLER EXTRACTED:	2'10

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1"	29'	CLAY	CLAY	%
			SILT	%
29'	46'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
46'	51'	COARSE SAND	GRAVEL	%
			PEBBLES	%
51'		SUB OUT CROB		

REMARKS:

1 TRIAL
MOUVE FROM LINE 8+00E
TO LINE 20W STN
10+00S

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
ALA-3023	#27	6/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
46.5'	RL, LR	DUVAL
LINE:	**STATION:**	**LOCATION:**
8+00E	27+00N	MONTRIEL

DRILLING TIME ZONE-4

POINT STARTED: 8.15 — SAMPLER STARTED: 9.50

POINT STOPPED: 9.10 — SAMPLER STOPPED: 10.15

POINT EXTRACTED: 9.40 — SAMPLER EXTRACTED: 10.50

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1'	26'	CLAY	CLAY	%
			SILT	%
26'	40'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
40'	46.5'	COARSE SAND	COARSE SAND	%
			GRAVEL	%
			PEBBLES	%
46.5'		SUB OUT CROP		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
ALA-3022	#28	3/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
42'	RL, LR	DUVAL
LINE:	**STATION:**	**LOCATION:**
8+00E	28+00N	MONTRIEL

DRILLING TIME ZONE-4

POINT STARTED: 9.10 — SAMPLER STARTED: 10.20

POINT STOPPED: 9.40 — SAMPLER STOPPED: 10.45

POINT EXTRACTED: 10.10 — SAMPLER EXTRACTED: 11.15

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1'	27'	CLAY	CLAY	%
			SILT	%
27'	38'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
38'	42'	COARSE SAND	COARSE SAND	%
			GRAVEL	%
			PEBBLES	%
42'		SUB OUT CROP		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO	DATE:
4LA-3021	#29	2/4/74
SAMPLE DEPTH: 32'	SAMPLERS: RL, LR	CONTRACT: DUVAL
LINE: 8+00 E	STATION: 29+00N	LOCATION: MONTVRÉL

DRILLING TIME ZONE-4

POINT STARTED: 3·25 — SAMPLER STARTED: ✓

POINT STOPPED: 4' — SAMPLER STOPPED: ✓

POINT EXTRACTED: 4·15 — SAMPLER EXTRACTED: ✓

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1'	24'	CLAY	CLAY	%
			SILT	%
24'	30'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
30'	32'	COARSE SAND	COARSE SAND	%
			GRAVEL	%
			PEBBLES	%
32'		SUB OUT CROB		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3021	#29	3/4/74
SAMPLE DEPTH: 32'	SAMPLERS: RL, LR	CONTRACT: DUVAL
LINE: 8+00E	STATION: 29+00N	LOCATION: MONTVRÉL

DRILLING TIME ZONE-4

POINT STARTED: ✓ — SAMPLER STARTED: 8'

POINT STOPPED: ✓ — SAMPLER STOPPED: 8·20

POINT EXTRACTED: ✓ — SAMPLER EXTRACTED: 8·45

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1'	24'	CLAY	CLAY	%
			SILT	%
24'	30'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
30'	32'	COARSE SAND	COARSE SAND	%
			GRAVEL	%
			PEBBLES	%
32'		SUB OUT CROB		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3020	#30	2/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
41'4"	RL, LR	DUVAL
LINE:	**STATION:**	**LOCATION:**
8+00E	30+00N	MONTVIÉL

DRILLING TIME ZONE-4

POINT STARTED: 12'45 — SAMPLER STARTED: 2'10

POINT STOPPED: 1.20 — SAMPLER STOPPED: 2'40

POINT EXTRACTED: 2' — SAMPLER EXTRACTED: 3'05

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1'	28'	CLAY	CLAY	%
			SILT	%
28'	37'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
37'	41'	COARSE SAND	COARSE SAND	%
			GRAVEL	%
41'	41'4"	TILL	PEBBLES	%
41'4"		SUB-OUTCROP		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3019	#31	2/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
43'4"	RL, LR	DUVAL
LINE:	**STATION:**	**LOCATION:**
8+00E	31+00N	MONTVIÉL

DRILLING TIME ZONE-4

POINT STARTED: 9'15 — SAMPLER STARTED: 10'30

POINT STOPPED: 10' — SAMPLER STOPPED: 11'10

POINT EXTRACTED: 10'20 — SAMPLER EXTRACTED: 11'35

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1'	27'	CLAY	CLAY	%
			SILT	%
27'	40'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
40'	43'	COARSE SAND	COARSE SAND	%
			GRAVEL	%
43'	43'4"	TILL	PEBBLES	%
43'4"		SUB OUTCROP		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3018	#32	1/4/74
SAMPLE DEPTH: 37'3"	SAMPLERS: RL, LR	CONTRACT: DUVAL
LINE: 8+00E	STATION: 32+00N	LOCATION: MONTRÉAL

DRILLING TIME ZONE-4

POINT STARTED: 3'10 — SAMPLER STARTED: ✓

POINT STOPPED: 3'50 — SAMPLER STOPPED: ✓

POINT EXTRACTED: 4'15 — SAMPLER EXTRACTED: ✓

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	2'	ORGANIC	ORGANIC %
2'	22'	CLAY.	CLAY %
			SILT %
22'	34'	FINE SAND	FINE SAND %
			MEDIUM SAND %
34'	37'	COARSE SAND	COARSE SAND %
37'	37'3"	TILL	GRAVEL %
			PEBBLES %
37'3"		SUB OUT CROP	

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3018	#32	2/4/74
SAMPLE DEPTH: 37'3"	SAMPLERS: RL, LR	CONTRACT: DUVAL
LINE: 8+00E	STATION: 32+00N	LOCATION: MONTRÉAL

DRILLING TIME ZONE-4

POINT STARTED: ✓ — SAMPLER STARTED: 8'

POINT STOPPED: ✓ — SAMPLER STOPPED: 8'25

POINT EXTRACTED: ✓ — SAMPLER EXTRACTED: 9'

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	2'	ORGANIC	ORGANIC %
2'	22'	CLAY	CLAY %
			SILT %
22'	34'	FINE SAND	FINE SAND %
			MEDIUM SAND %
34'	37'	BOULDERS	COARSE SAND %
37'	37'3"	TILL	GRAVEL %
			PEBBLES %
37'3"		SUB OUT CROP	

REMARKS:

1 TRIAL
NO SAMPLE

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
ALA-3017	#33	1/4/74
SAMPLE DEPTH: 35'3"	SAMPLERS: RL, LR	CONTRACT: DUVAL
LINE: 8+00 E	STATION: 33+00 N	LOCATION: MONTREAL

DRILLING TIME ZONE - 4

POINT STARTED:	12·30	SAMPLER STARTED:	2·
POINT STOPPED:	1·15	SAMPLER STOPPED:	2·25
POINT EXTRACTED:	1·50	SAMPLER EXTRACTED:	2·50

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2'	ORGANIC	ORGANIC	%
2'	24'	CLAY	CLAY	%
			SILT	%
24'	30'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
30'	35'	COARSE SAND	COARSE SAND	%
			GRAVEL	%
			PEBBLES	%
35'	35'3"	TILL		
35'3"		SUB OUT CROP		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
40.E, 30.34	34	19/3/74
SAMPLE DEPTH: 45	SAMPLERS: D.F. C.P.	CONTRACT: Duval
LINE: 112 West	STATION: 2000 mont R. Rive	LOCATION: Montreal

DRILLING TIME

POINT STARTED:	8	SAMPLER STARTED:	10
POINT STOPPED:	9.00	SAMPLER STOPPED:	11
POINT EXTRACTED	945	SAMPLER EXTRACTED:	1145

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2	Organic	ORGANIC	%
2	33	glaise	CLAY	%
33	43	gravel	SILT	%
43	45	Till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F. 3035	35	14/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
26	D.F. & P.	Durad
LINE:	**STATION:**	**LOCATION:**
112 West	1000 nord	Montréal

DRILLING TIME

POINT STARTED: SAMPLER STARTED: 8 1/2

POINT STOPPED: SAMPLER STOPPED: 9.1/4

POINT EXTRACTED: SAMPLER EXTRACTED: 10

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
			ORGANIC	%
			CLAY	%
			SILT	%
			FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

Sample n'a pas ouvert
Terrain très dur

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F. 3035	35	18/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
26	D.F. & P.	Durad
LINE:	**STATION:**	**LOCATION:**
112 W	1000 nord	Montréal

DRILLING TIME

POINT STARTED: 1.00 SAMPLER STARTED: 2 1/2

POINT STOPPED: 1. 1/2 SAMPLER STOPPED: 3 00

POINT EXTRACTED: 2, 1/4 SAMPLER EXTRACTED: 3 3/4

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2	organic	ORGANIC	%
2	20	glaise	CLAY	%
20	25	gravel	SILT	%
25	26	till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.E. 3035	35	14/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
26	D.F. C.P.	Dural
LINE:	**STATION:**	**LOCATION:**
112 W.	1000 nord	Montreal

DRILLING TIME

POINT STARTED: SAMPLER STARTED: 10 1/2

POINT STOPPED: SAMPLER STOPPED: 11 1/4

POINT EXTRACTED: SAMPLER EXTRACTED: 12

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
			ORGANIC %
			CLAY %
			SILT %
			FINE SAND %
			MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS: Il faut mettre la machine sur les rodes et le sample de vide

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.E. 3035	35	15/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
26	D.F. C.P.	Dural
LINE:	**STATION:**	**LOCATION:**
112 West	1000 Nord	Montreal

DRILLING TIME

POINT STARTED: 3 1/4 SAMPLER STARTED:

POINT STOPPED: 4,00 SAMPLER STOPPED:

POINT EXTRACTED: 5,00 SAMPLER EXTRACTED:

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
			ORGANIC %
			CLAY %
			SILT %
			FINE SAND %
			MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F. 3036	36	13/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
48	D.F. C.P.	Duval
LINE:	**STATION:**	**LOCATION:**
112 West	Rivet	Montreal

DRILLING TIME

POINT STARTED: 11.00 — SAMPLER STARTED: 1 1/4

POINT STOPPED: 11 3/4 — SAMPLER STOPPED: 1 3/4

POINT EXTRACTED: 12 1/2 — SAMPLER EXTRACTED: 2 1/2

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	7	water	ORGANIC %
7	14	glaise	CLAY %
14	40	gravel	SILT %
40	48	coarse sand	FINE SAND %
			MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

mouve de 5 mills

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4D.F 3037	37	19/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
33	D.F, C.P.	Duval
LINE:	**STATION:**	**LOCATION:**
112 W.	1000 Sf. Rivet	Montreal

DRILLING TIME

POINT STARTED: 1.00 — SAMPLER STARTED: 3.00

POINT STOPPED: 2.00 — SAMPLER STOPPED: 3 1/2

POINT EXTRACTED: 2 1/2 — SAMPLER EXTRACTED: 4.00

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	1	Organic	ORGANIC %
1	15	glaise	CLAY %
15	30	~~till~~ gravel	SILT %
30	33	till	FINE SAND %
			MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4 D F 3038	38	20/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
27	D.F. C.P.	Dural
LINE:	**STATION:**	**LOCATION:**
112 West A	2000 nord River	Montreal

DRILLING TIME

POINT STARTED: 8,00 — SAMPLER STARTED: 9 1/2

POINT STOPPED: 8 1/2 — SAMPLER STOPPED: 10

POINT EXTRACTED: 9,00 — SAMPLER EXTRACTED: 10 1/2

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1	Organic	ORGANIC	%
1	15	glaise	CLAY	%
15	25	gravel	SILT	%
25	27	till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4 D F 3039	39	20/3/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
21	D.F C.P.	Dural
LINE:	**STATION:**	**LOCATION:**
112 ouest	3000 NORD	Montreal

DRILLING TIME

POINT STARTED: 11, — SAMPLER STARTED: 1

POINT STOPPED: 11 3/4 — SAMPLER STOPPED: 1 1/2

POINT EXTRACTED: 12 1/4 — SAMPLER EXTRACTED: 200

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1	Organic	ORGANIC	%
1	12	glaise	CLAY	%
12	20	gravel	SILT	%
20	21	till	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3026	#48	8/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
107'	RL, LR	DUVAL
LINE:	**STATION:**	**LOCATION:**
20+00W	20+00S	MONVIEL

DRILLING TIME ZONE Z

POINT STARTED: 8'
POINT STOPPED: 9'20
POINT EXTRACTED: 10'15

SAMPLER STARTED: 10'25
SAMPLER STOPPED: 11'30
SAMPLER EXTRACTED: 1'15

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	%
0	3'	ORGANIC	ORGANIC	%
3'	40'	CLAY	CLAY	%
			SILT	%
40'	80'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
80'	96'	COARSE SAND	COARSE SAND	%
96'	106'	GRAVEL	GRAVEL	%
106'	107'	TILL	PEBBLES	%
107'		SUB OUT CROB		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3025	#49	7/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
85'	RL, LR	DUVAL
LINE:	**STATION:**	**LOCATION:**
20+00W	10+00S	MONVIEL

DRILLING TIME ZONE Z

POINT STARTED: 8'30
POINT STOPPED: 10'
POINT EXTRACTED: 11'15

SAMPLER STARTED: 12'30
SAMPLER STOPPED: 3'
SAMPLER EXTRACTED: 4'

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	%
0	3'	ORGANIC	ORGANIC	%
3'	54'	CLAY	CLAY	%
			SILT	%
54'	70'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
70'	79'	COARSE SAND	COARSE SAND	%
			GRAVEL	%
79'	85'	BOULDERS	PEBBLES	%
85'		SUB OUT CROB		

REMARKS:

2 TRIAL WITH SAMPLE

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3027	#50	8/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
42'6"	RL, LR,	DUVAL
LINE:	**STATION:**	**LOCATION:**
20+00W	10+00N	MONVIEL

DRILLING TIME ZONE Z

POINT STARTED: 2°30 SAMPLER STARTED: 3°20

POINT STOPPED: 3° SAMPLER STOPPED: 4'

POINT EXTRACTED: 3°15 SAMPLER EXTRACTED: 4°15

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2'	ORGANIC	ORGANIC	%
2'	24'	CLAY	CLAY	%
			SILT	%
24'	36'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
36'	42'	COARSE SAND	COARSE SAND	%
42'	42'6"	TILL	GRAVEL	%
			PEBBLES	%
42'6"		SUB OUTCROP		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4LA-3028	#51	9/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
34'	RL, LR	DUVAL
LINE:	**STATION:**	**LOCATION:**
20+00W	20+00N	MONVIEL

DRILLING TIME ZONE Z

POINT STARTED: 8° SAMPLER STARTED: 9°10

POINT STOPPED: 8°30 SAMPLER STOPPED: 9°25

POINT EXTRACTED: 9° SAMPLER EXTRACTED: 9°45

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2'	ORGANIC	ORGANIC	%
2'	22'	CLAY	CLAY	%
			SILT	%
22'	30'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
30'	34'	COARSE SAND	COARSE SAND	%
			GRAVEL	%
			PEBBLES	%
34'		SUB OUTCROP		

REMARKS:

1 TRIAL

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4-LA-3029	# 52'	9/4/74
SAMPLE DEPTH:	**SAMPLERS:**	**CONTRACT:**
67'	RL, LR,	DUVAL
LINE:	**STATION:**	**LOCATION:**
20+00W	30+00N	MONVIEL

DRILLING TIME ZONE Z

POINT STARTED: 10'
SAMPLER STARTED: 11'10

POINT STOPPED: 10'35
SAMPLER STOPPED: 11'35

POINT EXTRACTED: 11'
SAMPLER EXTRACTED: 12'10

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	3'	ORGANIC	ORGANIC	%
3'	34'	CLAY	CLAY	%
			SILT	%
34'	50'	FINE SAND	FINE SAND	%
			MEDIUM SAND	%
50'	64'	COARSE SAND	COARSE SAND	%
64'	67'	GRAVEL	GRAVEL	%
			PEBBLES	%
67'		SUB OUT CROSS		

REMARKS:

1 TRIAL
MOUVING FROM LINE
20+00 TO LINE 44W

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO	DATE
4RL2001	53	3/7/74
SAMPLE DEPTH: 53'	SAMPLED BY: RL-LA	CONTRACT: DUVAL INT. CORP
LINE: 28+00W	STATION: 9+00N	LOCATION: MATAGAMI

DRILLING TIME

POINT STARTED	8.00	SAMPLER STARTED	9.40
POINT STOPPED	9.15	SAMPLER STOPPED	10.20
POINT EXTRACTED	9.35	SAMPLER EXTRACTED	10.45

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	1'	ORGANIC	ORGANIC %
1'	40'	CLAY	CLAY %
40'	45'	GRAVEL	SILT %
45'	50'	TILL	FINE SAND %
50'	53'	BASAL-SAND	MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS

ITRIAL WITH POINTE

HARD GROUND

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO	DATE
4RL2002	54	3/7/74
SAMPLE DEPTH: 56'	SAMPLED BY: RL-LA	CONTRACT: DUVAL INT. CORP
LINE: 28+00W	STATION: 6+00N	LOCATION: MATAGAMI

DRILLING TIME

POINT STARTED	11.00	SAMPLER STARTED	1.20
POINT STOPPED	11.45	SAMPLER STOPPED	2.00
POINT EXTRACTED	1.15	SAMPLER EXTRACTED	2.25

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	1'	ORGANIC	ORGANIC %
1'	43'	CLAY	CLAY %
43'	50'	GRAVEL	SILT %
50'	54'	COARSE SAND	FINE SAND %
54'	56'	BASAL-FINE SAND	MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS

ITRIAL WITH POINTE

HARD GROUND

OVERBURDEN DRILLING LOG

	DRILL HOLE NO. 55	DATE 3/7/74
	SAMPLED BY RL-LA	CONTRACTOR DUVAL INT. CORP
LINE 28+00W	STATION	LOCATION MATAGAMI

DRILLING TIME

POINT STARTED: SAMPLER STARTED:

POINT STOPPED: SAMPLER STOPPED:

POINT EXTRACTED 4.45 SAMPLER EXTRACTED:

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	%
0	1'	ORGANIC	ORGANIC	%
1'	45'	CLAY	CLAY	%
45'	55'	BOULDER	SILT	%
55'	60'	COARSE SAND	FINE SAND	%
60'	65'	BASAL SAND	MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

ITRIAL WITH POINTE
TERRAIN OUR - HARD GROUND

OVERBURDEN DRILLING LOG

SAMPLE NO.	DRILL HOLE NO. 55	DATE 4/7/74
SAMPLE DEPTH 63'	SAMPLED BY RL-LA	CONTRACTOR DUVAL INT COR
LINE 28+00W	STATION 3+00N	LOCATION MATAGAMI

DRILLING TIME

POINT STARTED: SAMPLER STARTED:

POINT STOPPED: SAMPLER STOPPED:

POINT EXTRACTED: SAMPLER EXTRACTED:

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	%
			ORGANIC	%
			CLAY	%
			SILT	%
			FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

MOUVÉ LE JACK HYDRAULIC.
POUR ARRACHER
VERY HARD TO GET SAMPLE

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO: 57	DATE:
SAMPLE DEPTH:	SAMPLERS:	CONTRACT: DUVAL INT. CORP
LINE:	STATION:	LOCATION: MATAGAMI

DRILLING TIME

POINT STARTED:	SAMPLER STARTED:
POINT STOPPED:	SAMPLER STOPPED:
POINT EXTRACTED:	SAMPLER EXTRACTED:

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1'	15'	CLAY	CLAY	%
15'	18'	TILL	SILT	%
18'	93'	GRAVEL	FINE SAND	%
93'	95'95	BOULDERS	MEDIUM SAND	%
95'95	100'	COARSE SAND	COARSE SAND	%
100'	103'	BASAL TILL	GRAVEL	%
			PEBBLES	%

REMARKS:

1 TRIAL WITH POINTE
1 TRIAL WITH SAMPLER AND SAMPLER BROKEN IN THE HOLE
NO SAMPLE

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO: 56	DATE: 4/7/74
SAMPLE DEPTH: 99'	SAMPLERS: RL-LA	CONTRACT: DUVAL INT. CORP
LINE: 28+00W	STATION: 3+00 S	LOCATION: MATAGAMI

DRILLING TIME

POINT STARTED: 10.30	SAMPLER STARTED: 2.25
POINT STOPPED: 1.30	SAMPLER STOPPED: 3.20
POINT EXTRACTED: 2.20	SAMPLER EXTRACTED: 4.50

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1'	60'	CLAY	CLAY	%
60'	70'	TILL	SILT	%
70'	80'	GRAVEL	FINE SAND	%
80'	90'	BOULDERS	MEDIUM SAND	%
90'	95'	COARSE SAND	COARSE SAND	%
95'	99'	BASAL - SAND	GRAVEL	%
			PEBBLES	%

REMARKS:

1 TRIAL WITH POINTE
TROUBLE TO PULL THE RODS

OVERBURDEN DRILLING LOG

	58	
	RL-PH	DUVAL INT. CORP.
		MATAGAMI

DRILLING TIME

POINT STARTED	8.00	SAMPLER STARTED	12.45
POINT STOPPED	10.20	SAMPLER STOPPED	2.30
POINT EXTRACTED	11.45	SAMPLER EXTRACTED	4.10

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	1'	ORGANIC	ORGANIC %
1'	65'	CLAY	CLAY %
65'	80'	GRAVEL	SILT %
80'	90'	BOULDERS	FINE SAND %
90'	100'	BOULDER GRAVEL	MEDIUM SAND %
100'	107'	BASAL TILL	COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

1 POINTE TOO MANY BOULDER
1 TRIAL WITH SAMPLER
AND IMPOSSIBLE TO GET IT
THE HYDRAULIC JACK IS NOT STRONG
ENOUGH TO PULL THE BIG SAMPLER
NO SAMPLE

OVERBURDEN DRILLING LOG

	57	12/17/74
118'	RL PH	DUVAL INT. CORP
28+00W	6+00S	MATAGAMI

DRILLING TIME

POINT STARTED	8.00	SAMPLER STARTED	1.40
POINT STOPPED	10.30	SAMPLER STOPPED	3.36
POINT EXTRACTED	1.30	SAMPLER EXTRACTED	5.70

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	1'	ORGANIC	ORGANIC %
1'	65'	CLAY	CLAY %
65'	80'	GRAVEL	SILT %
80	100'	COARSE SAND	FINE SAND %
100'	110'	GRAVEL BOULDERS	MEDIUM SAND %
110'	115'	BOULDERS	COARSE SAND %
115'	118'	BASAL TILL	GRAVEL %
			PEBBLES %

REMARKS:

1 POINTE
1 TRIAL WITH SAMPLER AND
IMPOSSIBLE TO GET SAMPLE
BECAUSE TOO MANY BOULDERS
SAMPLER VERY HARD TO GET

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO	DATE
4RL2013	62	13/8/74
59'	SAMPLERS: RL-RL	CONTRACT: DUVAL-INTERA
2-1+00 W	STATION: 3+00 N	LOCATION: MATAGAMI

DRILLING TIME

POINT STARTED: 7.45 — SAMPLER STARTED: 9.30
POINT STOPPED: 9.00 — SAMPLER STOPPED: 10.10
POINT EXTRACTED: 9.25 — SAMPLER EXTRACTED: 10.30

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	2'	ORGANIC	ORGANIC %
2'	40'	CLAY	CLAY %
40'	50'	BASAL TILL	SILT %
50'	55'	GRAVEL	FINE SAND %
55'	59'	BASAL TILL	MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

TRIAL WITH POINTE

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO	DATE
4RL2014	61	13/8/74
SAMPLE DEPTH: ✓	SAMPLERS: RL-RL	CONTRACT: DUVAL-INTERA
LINE: 24+00W	STATION: 3+00 S	LOCATION: MATAGAMI

DRILLING TIME

POINT STARTED: 10.50 — SAMPLER STARTED: ✓
POINT STOPPED: 11.5 — SAMPLER STOPPED: ✓
POINT EXTRACTED: 12.10 — SAMPLER EXTRACTED: ✓

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	2'	ORGANIC	ORGANIC %
2'	45'	CLAY	CLAY %
45'	60'	COARSE SAND	SILT %
60'	70'	GRAVEL	FINE SAND %
70'	80'	MEDIUM SAND	MEDIUM SAND %
80'	87'	GRAVEL	COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

MANQUER DE RODS POUR CONTINUER LE TROU. PRENDRE LE CAMOT ET ALLER VOIR LES AUTRES LIGNES. PERDU 2 RODS DANS CE TROU

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4RL2015	77	14/8/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
71'	RL-RL	DUVAL-INTERN
LINE:	STATION:	LOCATION:
20+00W	3+00N	MATAGAMI

DRILLING TIME

POINT STARTED: 7.45	SAMPLER STARTED: 9.45
POINT STOPPED: 8.50	SAMPLER STOPPED: 10.35
POINT EXTRACTED: 9.40	SAMPLER EXTRACTED: 11.20

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2'	ORGANIC	ORGANIC	%
2'	55'	CLAY	CLAY	%
55'	65'	MEDIUM SAND	SILT	%
65'	71'	BASAL FINE SAND	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

1 TRIAL WITH POINTE

OVERBURDEN DRILLING LOG

SAMPLE NO:	DRILL HOLE NO:	DATE:
4RL2016	76	14/8/74
SAMPLE DEPTH:	SAMPLERS:	CONTRACT:
72'	RL-RL	DUVAL-INTERN
LINE:	STATION:	LOCATION:
20+00W	6+00N	MATAGAMI

DRILLING TIME

POINT STARTED: 12.15	SAMPLER STARTED: 2.00
POINT STOPPED: 1.20	SAMPLER STOPPED: 2.40
POINT EXTRACTED: 1.55	SAMPLER EXTRACTED: 3.05

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2'	ORGANIC	ORGANIC	%
2'	50'	CLAY	CLAY	%
50'	60'	GRAVEL	SILT	%
60'	68'	COARSE SAND	FINE SAND	%
68'	72'	BASAL FINE SAND	MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

1 TRIAL WITH POINTE

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO	DATE
4RL 2017	79	15/8/74
80'	SAMPLERS: RL - RL	CONTRACT: DIVAL-INTERN
16+00W	STATION: B. LINE	LOCATION: MATAGAMI

DRILLING TIME

HOLE STARTED: ~~7.45~~		SAMPLER STARTED: 7.45	
HOLE STOPPED:		SAMPLER STOPPED: 8.40	
HOLE EXTRACTED:		SAMPLER EXTRACTED: 9.10	

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	21	ORGANIC	ORGANIC	%
21	50'	CLAY	CLAY	%
50'	60'	GRAVEL	SILT	%
60'	70'	BOULDER- TILL	FINE SAND	%
70'	75'	BOULDERS	MEDIUM SAND	%
75'	80'	BASAL - TILL.	COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO:	DATE:
4RL 2017	79	14/8/74
SAMPLE DEPTH: -5'	SAMPLERS: RL - RL	CONTRACT: DIVAL-INTER
LINE: 16+00W	STATION: B-LINE	LOCATION: MATAGAMI

DRILLING TIME

POINT STARTED: 3.30		SAMPLER STARTED:	
POINT STOPPED: 4.15		SAMPLER STOPPED:	
POINT EXTRACTED: 4.45		SAMPLER EXTRACTED:	

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	2'	ORGANIC	ORGANIC	%
2'	50'	CLAY	CLAY	%
50'	60'	GRAVEL	SILT	%
60'	70'	BOULDER-TILL	FINE SAND	%
70'	75"	BOULDERS	MEDIUM SAND	%
75'	80'	BASAL- TILL	COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

1 TRIAL WITH BINTE

OVERBURDEN DRILLING LOG

	81	16/7/74
	RL-PH	DUVAL INT. CORP.
		MATAGAMI

DRILLING TIME

POINT STARTED	1.15	SAMPLER STARTED	2.40
POINT STOPPED	1.55	SAMPLER STOPPED	3.05
POINT EXTRACTED	2.36	SAMPLER EXTRACTED	3.40

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	1	ORGANIC	ORGANIC %
1	20	CLAY	CLAY %
20'	25'	BOULDERS	SILT %
25'	28'	GRAVEL-R. SAND	FINE SAND %
			MEDIUM SAND %
			COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS

1 TRIAL WITH POINTE
SAMPLER VERY HARD TO PULL

OVERBURDEN DRILLING LOG

SAMPLE NO 4RL2018	DRILL HOLE NO ~~81~~ 83	DATE 15/8/74
SAMPLE DEPTH:	SAMPLERS RL-RL	CONTRACT DUVAL-INTERN
LINE 16+00W	STATION 3+00S	LOCATION MATAGAMI

DRILLING TIME

POINT STARTED	9 35	SAMPLER STARTED	
POINT STOPPED	10.30	SAMPLER STOPPED	
POINT EXTRACTED	11.05	SAMPLER EXTRACTED	

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	2'	ORGANIC	ORGANIC %
2'	55'	CLAY	CLAY %
55'	65'	TILL	SILT %
65'	75'	GRAVEL	FINE SAND %
75'	80'	BOULDERS	MEDIUM SAND %
80'	82'	GRAVEL	COARSE SAND %
			GRAVEL %
			PEBBLES %

REMARKS:

PAS DE RODS POUR CONTINUER LE TROU.

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO	DATE
4RL 2012	9A	17/7/74
SAMPLE DEPTH	SAMPLERS	CONTRACT
48	RL PH	DUVAL INT. CORP.
LINE	STATION	LOCATION
32+00W	6+00N	MATAGAMI

DRILLING TIME

POINT STARTED	1.00	SAMPLER STARTED	2.30
POINT STOPPED	1.56	SAMPLER STOPPED	3.10
POINT EXTRACTED	2.25	SAMPLER EXTRACTED	3.40

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1'	18'	CLAY	CLAY	%
18'	28'	GRAVEL	SILT	%
28'	38'	BOULDERS	FINE SAND	%
38'	45'	GRAVEL-COARSE SAND	MEDIUM SAND	%
45'	48'	BASAL-FINE SAND	COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

ITRIAL WITH POINTE

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO	DATE
4RL 2011	95	17/7/74
SAMPLE DEPTH	SAMPLERS	CONTRACT
45'	RL - PH	DUVAL INT. CORP.
LINE	STATION	LOCATION
32+00W	3+00N	MATAGAMI

DRILLING TIME

POINT STARTED	8.00	SAMPLER STARTED	10.00
POINT STOPPED	9.15	SAMPLER STOPPED	10.50
POINT EXTRACTED	9.55	SAMPLER EXTRACTED	11.45

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1'	23'	CLAY	CLAY	%
23'	35'	GRAVEL	SILT	%
35'	43'	BOULDERS	FINE SAND	%
43'	45'	BASAL - FINE SAND	MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

1 MORE POINTE

HARD TIME TO PULL THE SAMPLER

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO 96	DATE
SAMPLE DEPTH	SAMPLER RL-PH	CONTRACT DUVAL INT CORP
LINE	STATION 3+00S	LOCATION MATAGAMI

DRILLING TIME

POINT STARTED 9.30 — SAMPLER STARTED

POINT STOPPED 10.40 — SAMPLER STOPPED

POINT EXTRACTED 11.05 — SAMPLER EXTRACTED

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	1'	ORGANIC	ORGANIC
1'	43'	CLAY	CLAY
43'	50'	BOULDERS	SILT
50'	54'	B. SAND - BOULDERS	FINE SAND
			MEDIUM SAND
			COARSE SAND
			GRAVEL
			PEBBLES

REMARKS:

TRIED TO PULL THE BG. SAMPLER AND TOO MANY BOULDERS.
1 MORE POINTE
1 MORE TRIAL WITH SAMPLER.

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO 95	DATE
SAMPLE DEPTH	SAMPLER	CONTRACT DUVAL INT. CORP
LINE	STATION	LOCATION MATAGAMI

DRILLING TIME

POINT STARTED — SAMPLER STARTED

POINT STOPPED — SAMPLER STOPPED

POINT EXTRACTED — SAMPLER EXTRACTED

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION
0	6	ORGANIC	ORGANIC
6	32	CLAY	CLAY
32	35	GRAVEL	SILT
35	46	BOULDERS	FINE SAND
46'	48'	B. SAND - BOULDERS	MEDIUM SAND
			COARSE SAND
			GRAVEL
			PEBBLES

REMARKS:

1 TRIAL WITH POINTE
1 ROD BROKEN IN THE HOLE

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO	DATE
	97	
SAMPLE DEPTH: 92'	SAMPLERS: RL-PIT	CONTRACT: DUVAL INT CORP
LINE: 32+00 W	STATION: 6+00S	LOCATION: MATAGAMI

DRILLING TIME

POINT STARTED 8.00	SAMPLER STARTED 12.30
POINT STOPPED 10.10	SAMPLER STOPPED 2 15
POINT EXTRACTED 11.40	SAMPLER EXTRACTED 3, 35

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	%
0	1'	ORGANIC	ORGANIC	%
1'	68'	CLAY	CLAY	%
68'	75'	GRAVEL	SILT	%
75'	85'	BOULDERS	FINE SAND	%
85'	90'	COARSE SAND	MEDIUM SAND	%
90'	92'	BASAL-TILL-BOULDER	COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

1 TRIAL WITH POINTE
SAMPLER VERY HARD TO PULL

OVERBURDEN DRILLING LOG

	DRILL HOLE NO	DATE
	96	
		CONTRACT: DUVAL INT CORP
	STATION	LOCATION: MATAGAMI

DRILLING TIME

POINT STARTED	SAMPLER STARTED 510
POINT STOPPED	SAMPLER STOPPED 5.15
POINT EXTRACTED	SAMPLER EXTRACTED

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	%
0	1	ORGANIC	ORGANIC	%
1	45	CLAY	CLAY	%
45	50	GRAVEL	SILT	%
50	54	BOULDERS-BTILL	FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

1 TRIAL WITH POINTE
1 TRIAL WITH SAMPLER
ONE ROD AND BIG SAMPLER
LEFT IN THE HOLE
TRIED TO PULL AND NO WAY.

OVERBURDEN DRILLING LOG

	98	DATE
		CONTRACT
		LOCATION

DRILLING TIME

POINT STARTED
POINT STOPPED
POINT EXTRACTED

SAMPLER STARTED
SAMPLER STOPPED
SAMPLER EXTRACTED

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0	1'	ORGANIC	ORGANIC	%
1	70	CLAY	CLAY	%
			SILT	%
			FINE SAND	%
			MEDIUM SAND	%
			COARSE SAND	%
			GRAVEL	%
			PEBBLES	%

REMARKS:

70 FEET OF POINTE
STOP AT 520.

OVERBURDEN DRILLING LOG

SAMPLE NO	DRILL HOLE NO 98	DATE
SAMPLE DEPTH 119'	SAMPLED BY RL PH	CONTRACT DUVAL INT CORP
LINE 32+00W	STAT ON 9+00S	LOCATION MATAGAMI

DRILLING TIME

POINT STARTED 8.00
POINT STOPPED 1.20
POINT EXTRACTED 2.15

SAMPLER STARTED
SAMPLER STOPPED
SAMPLER EXTRACTED

FOOTAGE FROM	FOOTAGE TO	OVERBURDEN DESCRIPTION	SAMPLE DESCRIPTION	
0'	1'	ORGANIC	ORGANIC	%
1'	70'	CLAY	CLAY	%
70'	86'	GRAVEL	SILT	%
86'	96'	TILL	FINE SAND	%
96'	100'	COARSE SAND	MEDIUM SAND	%
100'	110'	BOULDERS	COARSE SAND	%
110'	115'	GRAVEL-BOULDERS	GRAVEL	%
115'	119'	BASAL TILL	PEBBLES	%

REMARKS:

2 TRIAL WITH POINTE
SAMPLER VERY HARD TO PULL.

APPENDIX III

BASAL TILL ANALYTICAL RESULTS

BONDAR-CLEGG & COMPANY LTD.

784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Geochemical Lab Report

Extraction Cu,Pb,Zn,Ni - HNO_3-HCl, U - HNO_3 Th

Report No. 176-4

Method A.A. Fluorimetric, XRF

From Duval International Corporation.

Fraction Used H.M.S. -100 rocks.

Date March 21, 1974

SAMPLE NO.	HOLE	Cu ppm	Pb ppm	Zn ppm	Ni ppm	U ppm		REMARKS
4FT - 3001	1	429	397	2237	183	0.8		HEAVY FRACTION
3002	2	49	397	6150	110	0.6		
4HT - 3003	3	41	53	1107	68	0.4		
3004	4	52	224	6450	81	1.5		
4FT - 3001	1	Hole 1	24W -6/00N	47'				
3002	2	Hole 2	24W @ B.L.	90'				
4HT - 3003	3	Hole 3	20W -3/50S	70'				
3004	4	Hole 4	20W @ B.L.	43'6"				
4FT - 3001	1	Has a trace of carbonates						
3002	2	Has Minor carbonates						
4HT - 3003	3	Has no carbonates						
3004	4	Has a trace of carbonates.						
				Mineral ID to follow.				

BONDAR-CLEGG & COMPANY LTD.

784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Geochemical Lab Report

Extraction: Cu,Pb,Zn - HNO_3-HCl

Report No.: 210-4

Method: A.A.

From: Duval Corporation Ltd.

Fraction Used: -100rocks - H.M.S.-M.I.D.

Date: April 1, 1974

SAMPLE NO.	HOLE	Cu ppm	Pb ppm	Zn ppm				REMARKS
4FT.-3005	5	29	42	[illegible]				

BONDAR-CLEGG & COMPANY LTD.
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Geochemical Lab Report

Extraction Th Report No. 176-4

Method X.R.F. From Duval International Corporation.

Fraction Used H.M.S. -100 rocks. Date March 21, 1974

SAMPLE NO.	HOLE	Th ppm						REMARKS
4 FT - 3001	1	11						-100 FRACTION
3002	2	21						
4 FT - 3003	3	15						
3004	4	30						
- 3005	5	7						

BONDAR-CLEGG & COMPANY LTD.
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Geochemical Lab Report

Extraction Cu,Pb,Zn,Ni-HNO_3-HCl, U-HNO_3, Th — Report No. 218-4

Method A.A., U-Fluorimetric, Th-X.R.F. — From Duval Corporation

Fraction Used -100 Rocks, -80 Soils — Date April 4, 19 74

SAMPLE NO.	HOLE	Cu ppm	Pb ppm	Zn ppm	Ni ppm			REMARKS
4FT - 3007	7	32	18	67	48			HEAVY FRACTION
3008	8	46	12	55	45			
3009	9	44	10	54	43			
3010	10	36	14	65	41			
3011	11	30	14	52	50			
4FT - 3036	36	126	18	80	115			
		U ppm	Th ppm					
4FT - 3007	7	1.5	22					-80 FRACTION
3008	8	1.5	9					
3009	9	0.4	11					
3010	10	0.4	9					
3011	11	1.0	13					
4FT - 3036	36	0.4	12					

BONDAR-CLEGG & COMPANY LTD.
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Geochemical Lab Report

Extraction Cu,Pb,Zn,Ni - HNO_3-HCl, u - HNO_3, Th

Method Cu,Pb,Zn,Ni - A.A., U - Fluorimetric Th- X.R.F.

Fraction Used H.M.S., -100 Rocks, -80 Soils

Report No. 275-4

From Duval International Corporation

Date May 2, 1974

SAMPLE NO.	HOLE #	Cu ppm	Pb ppm	Zn ppm	Ni ppm			REMARKS
4LA - 3023	27	52	20	50	45			HEAVY FRACTION
3024	26	45	18	40 ✓	33			
3025	49	70	89	406	66			
3026	48	73	30	48	66			
3027	50	78	40	155	55			
3028	51	84	20	34	54			
3029	52	157	393	1330	160			
4LA - 3030	24	57	62	134	69			
4FT - 3006	6	22	19	40	26			
		U ppm	Th ppm					
4LA - 3023	27	0.6	5					-80 FRACTION
3024	26	0.6	10					
3025	49	1.0	5					
3026	48	1.5	17					
3027	50	1.0	5					
3028	51	2.0	10					
3029	52	0.8	5					
4LA - 3030	24	2.0	6					
4FT - 3006	6	1.5	19					
		LINE			STATION		DEPTH	HOLE
4LA - 3023		L 8 + 00 E			27 + 00 N		46'5"	# 27
3024		L 8 + 00 E			26 + 00 N		51'	# 26
3025		L 20 + 00 W			10 + 00 S		85'	# 49
3026		L 20 + 00 W			20 + 00S		107'	# 48
3027		L 20 + 00 W			10 + 00 N		42'6"	# 50
3028		L 20 + 00 W			20 + 00 N		34'	# 51
3029		L 20 + 00 W			30 + 00 N		67'	# 52
3030		L 44 + 00 W			0 + 00		13'3"	#24
4FT - 3006	6	L 8 W			3 + 00 S		11'	# 6

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Geochemical Lab Report

Extraction Cu,Pb,Zn,Ni - HNO_3-HCl, U-HNO_3, Th — Report No. 261-4

Method A,A. Fluorimetric XRF — From Duval International Corporation

Fraction Used -100 rocks. H.M.S. — Date April 22, 1974

SAMPLE NO.	HOLE #	Cu ppm	Pb ppm	Zn ppm	Ni ppm			REMARKS
4LA - 3017	33	67	20	56	45			HEAVY FRACTION
19	31	73	13	50	50			
20	30	55	15	48	42			
21	29	75	15	40	45			
22	28	51	13	35	35			
		U ppm	Th ppm					
4LA-3017	33	0.6	8					-80 FRACTION
19	31	0.6	3					
20	30	0.6	4					
21	29	0.8	6					
22	28	0.6	4					

all low & background

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MAY 1 1974
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764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

Total sample Barnaby

No: 176-4

Sample No. 4 FT - 3001 Hole 1

From: Duval International Corporation

Method: X.R.F.

Date: March 21, 1974

No. of Elements: 32

Analyst: R.J.G.

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn				(X)						
Co	X									
Ni	X									
Cu		X								
Zn		(X)								
As	X									
Sr				(X)						
Y		X								
Zr				(X)						
Nb		(X)								
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					(X)					
La			(X)							
Ce				(X)						
W	X									
Pb		X								
Bi	X									
Th		X								
U	X									

-100 FRACTION

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 176-4

Sample No. 4 FT - 3002 Hole 2

From: Duval International Corporation

Method: X.R.F.

Date: March 21, 1974

No. of Elements: 32

Analyst: R.J.G.

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO								X		
Na_2O							X			
K_2O							X			
TiO_2					X					
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn						X				
Co	X									
Ni	X									
Cu		X								
Zn				X						
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
[illegible]	X									
Sb	X									
Ba					X					
La			X							
Ce				X						
W	X									
Pb		X								
Bi	X									
Th		X								
U	X									

-100 FRACTION

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 176-4

Sample No. 4 HT - 3003 Hole 3

From: Duval International Corporation

Method: X.R.F.

Date: March 21, 19 74

No. of Elements: 32

Analyst: R.J.G.

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2					X ✓					
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn				X ✓						
Co	X									
Ni	X									
Cu		X								
Zn		X								
As	X									
Sr				X ✓						
Y	X									
Zr			X							
Nb	X ✓									
Mo	X									
Ag	X									
[illegible]	X									
Sb	X									
Ba					X ✓					
La			X ✓							
Ce				X ✓						
W	X									
Pb	X									
Bi	X									
Th		X								
U	X									

-100 FRACTION

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 176-4

Sample No. 4 HT - 3004 Hole 4 Total Sample - Bruch Fraction From: Duval International Corporation

Method: X.R.F. Date: March 21, 1974

No. of Elements: 32 Analyst: R.J.G.

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn						X				
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
[illegible]	X									
Sb	X									
Ba					X					
La			X							
Ce				X						
W	X									
Pb		X								
Bi	X									
Th		X								
U	X									

-100 FRACTION

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

Hole #5

SEMI-QUANTITATIVE ANALYSIS

No: 210-4

Sample No. 4FT.-3005 (2258) -100 fraction

From: Duval Corporation Ltd.

Method: X.R.F.

Date: April 1, 1974

No. of Elements: 32

Analyst: R.J.G.

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2					X					
TRACE ELEMENTS (%)										
	X									
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu		X								
Zn		X								
As	X									
Sr				X						
Y		X								
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
					X					
La	X									
Ce		X								
W	X									
Pb		X								
Bi	X									
Th	X									
U	X									

Th = 7 ppm

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 210-4

Sample No. 2263 Heavies (Combe)

From: Duval Corporation Ltd.

Method: X.R.F.

Date: April 1, 1974

No. of Elements: 32

Analyst: R.J.G.

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3							X			
Total Fe (Fe_2O_3)									X	
MgO									X	
CaO									X	
Na_2O							X			
K_2O							X			
TiO_2								X		
TRACE ELEMENTS (%)										
[illegible]				X						
Cr			X							
Mn						X				
Co		X								
Ni			X							
Cu		X								
Zn		X								
As	X									
Sr				X						
Y		X								
Zr				X						
Nb			X							
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba				X						
La		X								
Ce			X							
W	X									
Pb		X								
Bi	X									
Th		X								
U	X									

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 210-4

Sample No. 2264 Heavies

From: Duval Corporation Ltd

Method: X.R.F.

Date: April 1. 1974

No. of Elements: 32

Analyst: R.J.G.

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3							X			
Total Fe (Fe_2O_3)									X	
MgO									X	
CaO									X	
Na_2O							X			
K_2O							X			
TiO_2								X		
TRACE ELEMENTS (%)										
[illegible]				X						
Cr			X							
Mn						X				
Co		X								
Ni			X							
Cu			X							
Zn		X								
As	X									
Sr				X						
Y	X									
Zr			X							
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba				X						
La	X									
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 275-4 4FT-3006, L8W, 3+00S, Depth 11' Hole # 6

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO						X				
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
	X									
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu		X								
Zn		X								
As	X									
Sr				X						
Y	X									
Zr			X							
Nb	X									
Mo		X								
Ag	X									
Sn	X									
	X									
Ba				X						
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 218-4 4Ft-3007,L19NE,8W 500S,Depth 5' Hole #7

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)									X	
MgO								X		
CaO							X			
Na_2O								X		
K_2O								X		
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn					X					
Co	X									
Ni	X									
Cu		X								
Zn		X								
As		X								
Sr				X						
Y		X								
Zr			X							
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb		X								
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

218-4
Sample No. 4Ft-3008,L8A, 6.50S, Depth 10' Hole #8

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2										
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn					X					
Co	X									
Ni	X									
Cu		X								
Zn			X							~100 ppm
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo		X								
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La		X								
Ce			X							
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 218-4 4Ft.-3009,L-8W,A.8+00S Depth 6',Hole #9

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn		X								
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
Sn	X									
	X									
Ba					X					
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 218-4 4Ft-3010,L18NE.8W.A.10.00S Depth 15' Hole #10

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO						X				
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
[redacted]		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu		X								
Zn		X								
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
Sn	X									
[redacted]	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 218-4 4Ft-3011,L18NE 4W A.1200S Depth 11' Hole #11

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
[illegible]		X								
Cr	X									
Mn					X					
Co	X									
Ni	X									
Cu		X								
Zn		X								
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
Sn	X									
[illegible]	X									
Ba					X					
La	X									
Ce	X ✓									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 239-4 4D.F.3012.L.76W.32+00N,Depth 24' Hole#12

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn			X ✓							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
Sn	X									
	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 239-4 4.D.F.3013,L76,37+00N,Depth 18' Hole #13

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
		X								
Cr	X									
Mn					X					
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo		X								
Ag	X									
Sn	X									
	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3546

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 239-4 4 D.F. 3014,L76W, 42+00N Depth 23' Hole #14

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
[illegible]		X								
Cr	X									
Mn					X					
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

WPW

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 239-4 4DF-3015,L76W,47+00N, Depth 22', Hole #15

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr					X					
Y		X								
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 239-4 4D.F.3016,L.76W,52+00N,Depth 21',Hole #16

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn					X					
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La			X							
Ce			X							
W	X									
Pb			X							
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 261-4 4LA-3017, L8+00E, STN 33+00N, Depth 35'3", Hole #33

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn					X					
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo		X								
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

WPN

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784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 261-4 4LA-3019,L8+00E,STN 31+00N,Depth 43'4",Hole #31

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

WPW

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SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 261-4 4LA-3020,18+00E,STN 30+00N,Depth 41'4",Hole #30

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo		X								
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

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SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 261-4 4LA-3021,L8+00E,STN 29+00N,Depth 32',Hole #29

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
[redacted]	X									
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
Sn	X									
[redacted]	X									
Ba					X					
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

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SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 261-4 4LA-3022,L8+00E,STN 28+00N Depth 42',Hole#28

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X ✓								
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 275-4
4LA-3023,L8+00E,27+00N,Depth 46'5",Hole #27

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	>10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)							X			
MgO							X			
CaO							X			
Na_2O								X		
K_2O							X			
TiO_2					X					
TRACE ELEMENTS (%)										
	X									
Cr		X								
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn		X								
As	X									
Sr				X						
Y	X									
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

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SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 275-4 4LA-3024, L8+00E, 26+00N, Depth 51', Hole #26

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)							X			
MgO							X			
CaO							X			
Na_2O								X		
K_2O							X			
TiO_2					X					
TRACE ELEMENTS (%)										
	X									
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn		X ✓								
As	X									
Sr				X						
Y	X									
Zr			X							
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba				X						
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

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SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 275-4 4LA-3030,L44+00W,0+00,Depth 13'3",Hole #24

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)							X			
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
[redacted]	X									
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y	X									
Zr			X							
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
[redacted]					X					
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

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SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 239-4 4D,F-3034,L112W,A.2000N Depth 45',Hole #34

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
[illegible]		X								
Cr	X									
Mn					X					
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

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SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 239-4 4D,F-3035,L112W,1000N,Depth 27',Hole #35

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn					X					
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb	X									
Si	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 218-4 4Ft-3036,L18NE 112W A River Depth 48' Hole#36

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
[redacted]		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn		X								
As	X									
Sr				X						
Y		X								
Zr				X						
Nb		X								
Mo	X									
Ag	X									
Sn	X									
[redacted]	X									
Ba					X					
La		X								
Ce		X								
W	X									
Pb		X								
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

239-4
Sample No. 4D.F-3037,L112W,1000S,Depth 33',Hole #37

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
[redacted]		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y		X								
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
[redacted]	X									
Ba					X					
La		X								
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

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764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3546

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 239-4 4DF-3038,L18NE,112W.A 2000,Depth 27',Hole #38

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO							X			
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu		X								
Zn		X ✓								
As	X									
Sr				X						
Y		X								
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
[illegible]	X									
Ba					X					
La		X ✓								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 239-4 4DF-3039,L8,112W.A3000,South of River Depth 21' Hole #39

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO								X		
CaO							X			
Na_2O								X		
K_2O								X		
TiO_2						X				
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn		X								
As	X									
Sr				X						
Y		X								
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
	X									
Ba						X				
La		X								
Ce		X								
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

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SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 275-4 4LA-3025,L20+00W,10+00S,Depth 85',Hole #49

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)							X			
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V	X									
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn		X								
As	X									
Sr				X						
Y	X									
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 275-4 4LA-3026,L20+00W,20+00S,Depth 107',Hole #48

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)								X		
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V	X									
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn		X								
As	X									
Sr				X						
Y	X									
Zr						X				
Nb	X									
Mo	X									
Ag	X									
Sn	X									
[redacted]	X									
Ba				X						
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 275-4 4LA-3027, L20+00W, 10+00N, Depth 42'6", Hole #50

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)							X			
MgO							X			
CaO							X			
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
[illegible]	X									
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn		X								
As	X									
Sr				X						
Y	X									
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
[illegible]	X									
Ba				X						
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

WAW

BONDAR-CLEGG & COMPANY LTD.

784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 275-4 4LA-3028,L20+00W,20+00N,Depth 34',Hole #51

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)							X			
MgO							X			
CaO								X		
Na_2O								X		
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
V	X									
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr					X					
Y	X									
Zr				X						
Nb	X									
Mo	X									
Ag	X									
Sn	X									
Sb	X									
Ba					X					
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

BONDAR-CLEGG & COMPANY LTD.
764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-3548

SEMI-QUANTITATIVE ANALYSIS

No: 295-4

Sample No. 275-4 4LA-3029,L20+00W,30+00N,Depth 67',Hole #52

From: Duval International Corporation

Method: X.R.F.

Date: May 27, 1974

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO_2									X	
Al_2O_3									X	
Total Fe (Fe_2O_3)							X			
MgO							X			
CaO							X			
Na_2O						X				
K_2O							X			
TiO_2						X				
TRACE ELEMENTS (%)										
[illegible]	X									
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu	X									
Zn			X							
As	X									
Sr				X						
Y	X									
Zr				X						
Nb	X									
Mo		X								
Ag	X									
Sn	X									
[illegible]	X									
Ba					X					
La	X									
Ce	X									
W	X									
Pb	X									
Bi	X									
Th	X									
U	X									

DUVAL INTERNATIONAL CORPORATION

Mineralogical Examination of Light Fractions by X-ray Diffraction

1. Major components in all ten samples are quartz, microcline, and plagioclase. Very small and fine-grained rock fragments present to about 35% of samples 3008 and 3011, 20% of all others. Dominant minerals in these fragments are quartz and microcline. No apatite was found in any samples.

2. Calcite content is as follows:

Sample Number	Calcite	% Loss LEACH RESULTS
3001	< 1%	3.2
3002	1-2%	4.1
3008	Scattered grains	6.1
3011	Scattered grains	3.1
3013	1%	—
3015	1%	3.9
3025	0.5%	0.4
3030	3-5%	3.2
3036	< 1%	3.0
3038	1%	2.1

DUVAL CORPORATION LTD.

REPORT 210-4

MINERAL IDENTIFICATION -10 + 100 HEAVY FRACTION

SAMPLE # 2259 - Jowsey Hole #2 400'-425' ultramafic dyke bx.

Aggregate grains of predominantly biotite plus some pyroxene, olivine, calcite and trace haematite.

SAMPLE # 2260 Jowsey Hole 1 - 125'-150' - decomposed ultramafic - kimberlite?

Most grains are full of magnetite inclusions and badly coated with clay minerals,. Biotite is a major constituent plus a mafic mineral, possibly pyroxene. Definite identification of mafic mineral is precluded by clay mineral coating.

SAMPLE # 2261 SAME AS 2260 - only not decomposed.

77% Magnetiferous Biotite (biotite full of magnetite inclusions).
20% Non-magnetic biotite
3% Calcite

SAMPLE # 2262 Jowsey Hole 2 417.5' - kimberlitic ultramafic bx.

Aggregate grains of biotite, olivine, Pyroxene plus minor calcite, siderite, limonite, haematite and magnetite.

SAMPLE # 2263 Float Sample - 1/3 mile SW of Camp; ultramafic w/some chalcopyrite.

48% Hornblende
25% Pyroxene
12% Calcite
7% Biotite
5% Magnetite
2% Siderite
1% Haematite

SAMPLE # 2264 Same location as above

Aggregate grains of mostly biotite, olivine pyroxene, limonite, chlorite plus minor accessory magnetite and calcite.

SAMPLE # 4 FT.- 3005 (2258) BASAL TILL #5

30% Hornblende
24% Clinozoisite
12% Epidote
10% Calcite
8% Pyroxene
5% Garnet
3% Clay Minerals
3% Magnetite
2% Biotite
2% Pyrite
1% Haematite
Trace Muscovite

DUVAL CORPORATION LTD.

REPORT 218-4

MINERAL IDENTIFICATION - HEAVY MINERAL SEPARATES.

what about light mineral separates

SAMPLE # 4FT.-3007

Grains badly coated with clay minerals. Predominant mineral is hornblende plus subsidiary pyroxene, garnet, epidote, biotite, and magnetite.

SAMPLE # 4FT.-3008

66% Hornblende
16% Pyroxene
6% Magnetite
5% Garnet
3% Epidote
3% Biotite
1% Haematite
Trace Pyrite
Trace Pyrrhotite

SAMPLE # 4FT.-3009

60% Hornblende
25% Pyroxene
5% Magnetite
3% Garnet
3% Epidote
2% Limonite
2% Biotite

SAMPLE # 4FT.-3010

71% Hornblende
18% Pyroxene
4% Magnetite
3% Epidote
2% Garnet
2% Limonite

SAMPLE # 4FT.-3011

48% Hornblende
31% Pyroxene
6% Epidote
10% Magnetite
3% Garnet
2% Biotite
Trace Pyrite

SAMPLE # 4FT.-3036

33% Hornblende
27% Pyroxene
15% Epidote
10% Magnetite
5% Clinozoisite
6% Garnet
4% Pyrite
Trace Zircon, Calcite.

WPW

DUVAL CORPORATION LTD.

REPORT 239-4

HEAVY MINERAL IDENTIFICATION

SAMPLE # 4DF-3012

34% Pyroxene
33% Hornblende
10% Epidote
10% Barite
4% Magnetite
4% Garnet
3% Pyrite
2% Chlorite
Trace Fluorite, Biotite.

SAMPLE # 4DF-3013

49% Hornblende
18% Pyroxene
12% Garnet
8% Epidote
5% Biotite
4% Barite
4% Magnetite
Frequent coating of grains by clay minerals.

SAMPLE # 4DF-3014

54% Hornblende
8% Pyroxene
9% Magnetite
12% Epidote
6% Garnet
5% Barite
2% Siderite
2% Pyrite
2% Biotite

SAMPLE # 4DF-3015

37% Hornblende
30% Pyroxene
15% Epidote
5% Magnetite
5% Barite
4% Garnet
3% Pyrite
1% Chlorite

SAMPLE # 4DF-3016

35% Pyroxene
32% Hornblende
14% Epidote
7% Magnetite
4% Barite
3% Garnet
2% Biotite
3% Pyrite

SAMPLE # 4DF-3034

34% Hornblende
27% Pyroxene
15% Epidote
8% Barite
6% Magnetite
5% Garnet
3% Biotite
2% Pyrite

SAMPLE # 4DF-3035

41% Hornblende
31% Pyroxene
15% Epidote
4% Magnetite
4% Garnet
3% Pyrite
2% Barite
Trace Fluorite, Biotite.

SAMPLE #4DF-3037

35% Hornblende
31% Pyroxene
14% Epidote
7% Magnetite
7% Barite
3% Garnet
2% Pyrite
1% Biotite

SAMPLE # 4DF-3038

38% Hornblende
32% Pyroxene
14% Epidote
9% Barite
3% Garnet
2% Magnetite
1% Pyrite
1% Biotite
Trace Fluorite

SAMPLE # 4DF-3039

Very small sample.
Most grains coated with clay minerals. Predominant constituents are hornblende, pyroxene, epidote and garnet plus subsidiary pyrite, barite magnetite.

DUVAL CORPORATION LTD.

REPORT 261-4

HEAVY MINERAL CONCENTRATES.

SAMPLE # 4LA-3017

H-33

38% Hornblende
30% Pyroxene
14% Epidote
7% Magnetite
5% Garnet
4% Barite
2% Pyrite
Trace Biotite
Trace Zircon

SAMPLE # 4LA-3021

H-29

45% Hornblende
27% Pyroxene
10% Epidote
5% Garnet
5% Barite
3% Magnetite
3% Pyrite
1% Biotite
1% Chlorite
Trace Zircon

SAMPLE # 4LA-3019

H-

45% Hornblende
26% Pyroxene
11% Epidote
5% Garnet
4% Magnetite
3% Barite
3% Pyrite
2% Chlorite
1% Biotite
Trace Limonite
Trace Zircon

SAMPLE # 4LA-3022

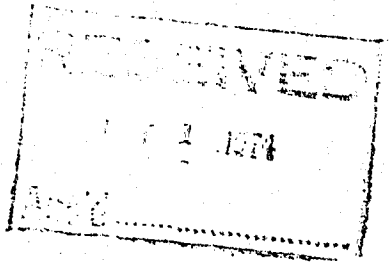
H-28

36% Hornblende
30% Pyroxene
16% Epidote
5% Garnet
3% Barite
3% Biotite
3% Magnetite
2% Pyrite
2% Chlorite
Trace Zircon
Trace Calcite

SAMPLE # 4LA-3020

H-30

31% Pyroxene
26% Hornblende
18% Epidote
7% Garnet
5% Magnetite
5% Barite
4% Pyrite
1% Biotite
1% Calcite ✓
1% Zircon
1% Chlorite



DUVAL CORPORATION LTD.

REPORT 275-4

HEAVY MINERAL CONCENTRATES.

4LA-3023

38% Hornblende
28% Pyroxene
21% Epidote
5% Garnet
4% Magnetite
2% Barite
1% Biotite
1% Pyrite
Trace Zircon

4LA-3024

41% Hornblende
22% Epidote
20% Pyroxene
9% Garnet
3% Magnetite
2% Pyrite
2% Barite
1% Biotite
Trace Calcite,
Zircon

4LA-3025

38% Hornblende
17% Pyroxene
14% Epidote
9% Barite
6% Garnet
5% Calcite
4% Pyrite
4% Magnetite
2% Biotite
1% Chlorite
Trace Zircon

4LA-3026

All grains badly coated with clay minerals. Predominant constituents are hornblende, pyroxene, epidote, with subsidiary pyrite, garnet, magnetite, biotite, barite and calcite.

4LA-3027

41% Hornblende
28% Pyroxene
11% Epidote
5% Barite
5% Magnetite
4% Garnet
2% Pyrite
2% Biotite
2% Calcite
Trace Zircon

4LA-3028

50% Hornblende
23% Pyroxene
10% Epidote
5% Garnet
4% Magnetite
4% Barite
2% Pyrite
2% Biotite
Trace Calcite, Siderite
and Zircon

REPORT 275-4

HEAVY MINERAL CONCENTRATES.

PAGE 2

4LA-3029 Hole #52

35% Hornblende
28% Pyroxene
12% Pyrite
6% Epidote
5% Garnet
5% Calcite
3% Barite
3% Magnetite
3% Biotite

4LA-3030 Hole #23

much quartz - light fraction

34% Hornblende
31% Pyroxene
10% Epidote
10% Magnetite with abundant limonitic alteration
6% Garnet
3% Chlorite
2% Biotite
2% Pyrite (altered)
2% Barite
Trace Zircon

4FT-3005 Hole #6

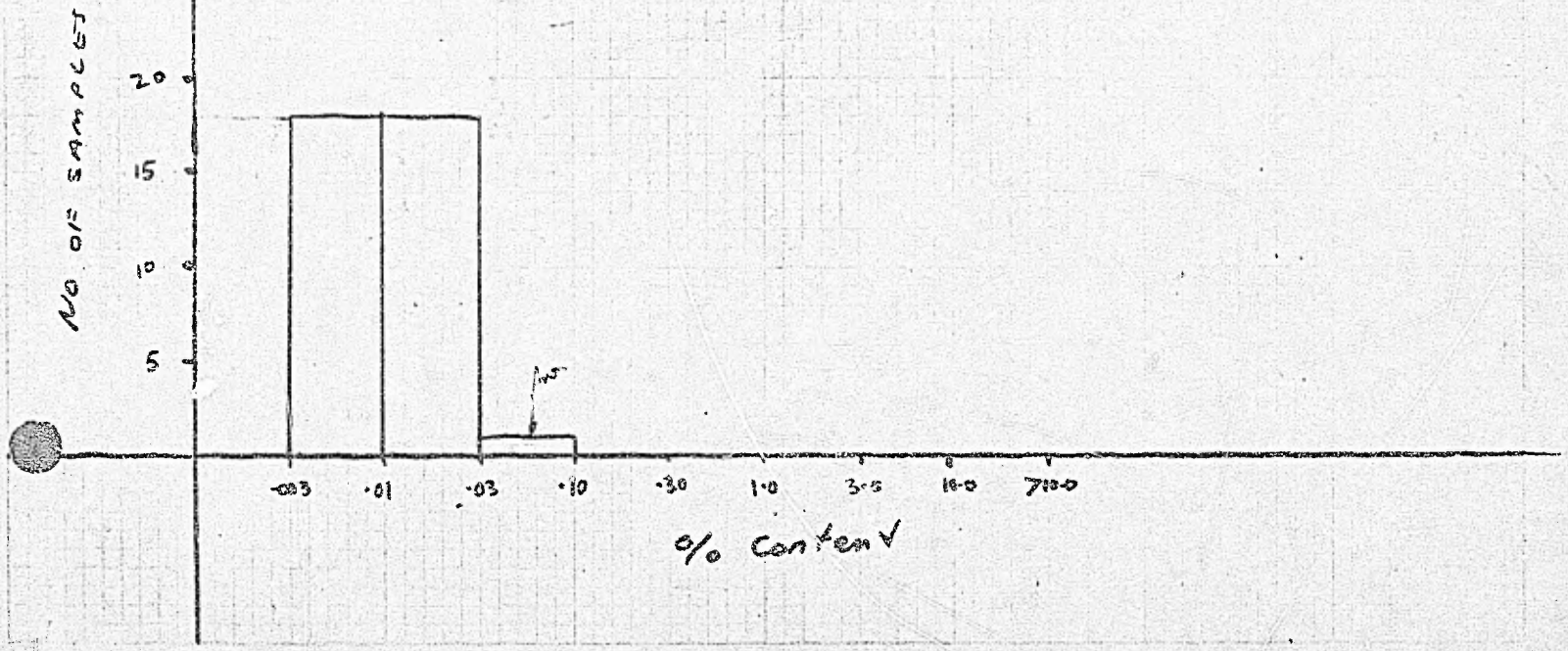
48% Hornblende
25% Pyroxene
11% Epidote
7% Garnet
3% Magnetite
3% Biotite
1% Chlorite
1% Pyrite
1% Barite
Trace Calcite

WPW

MONTVIEL BASAL TILL

Zn
SPECTROGRAPHIC SCAN
SEMI QUANTITATIVE.

-80 MESH



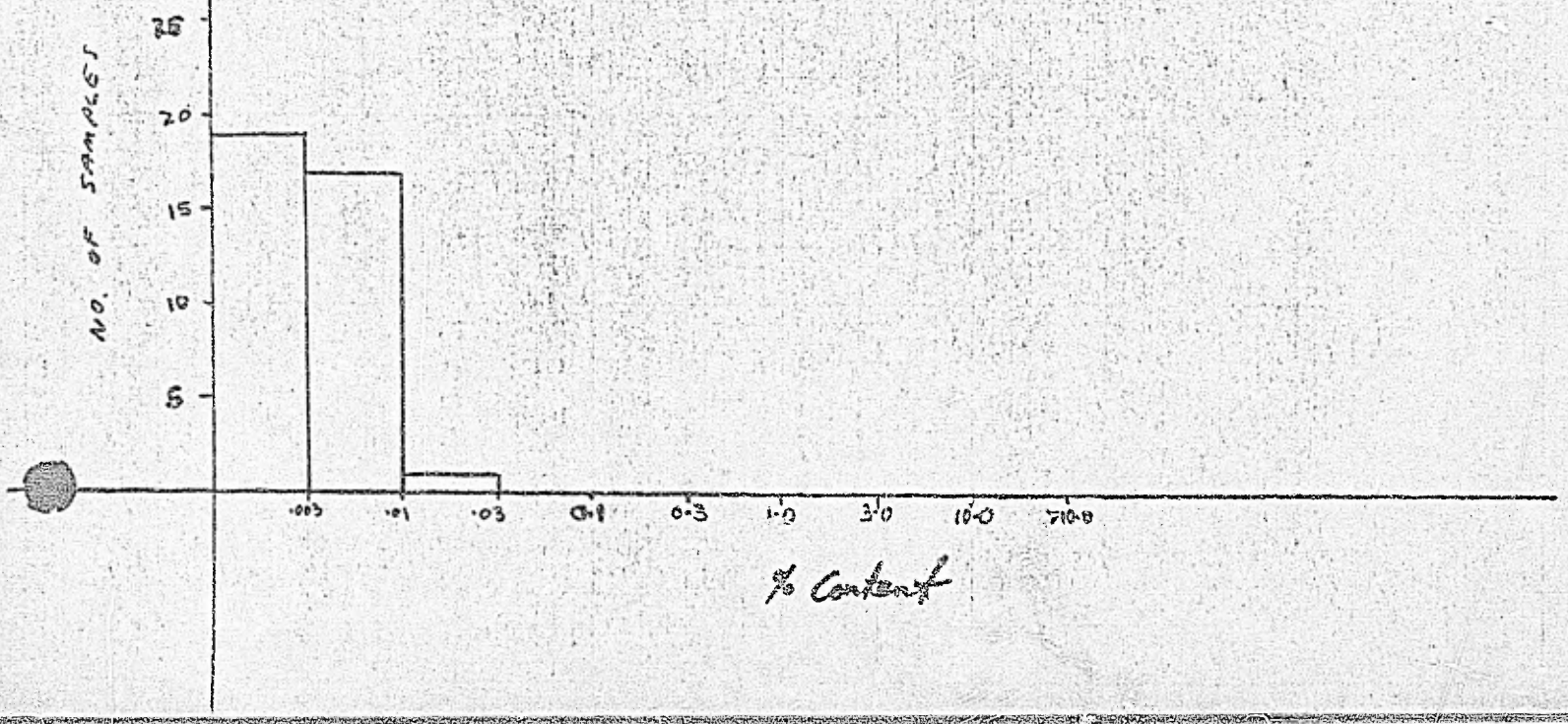
MONTVIEL BASAL TILL

Nb

SPECTROGRAPHIC SCAN

SEMI QUANTITATIVE

- 80 MESH

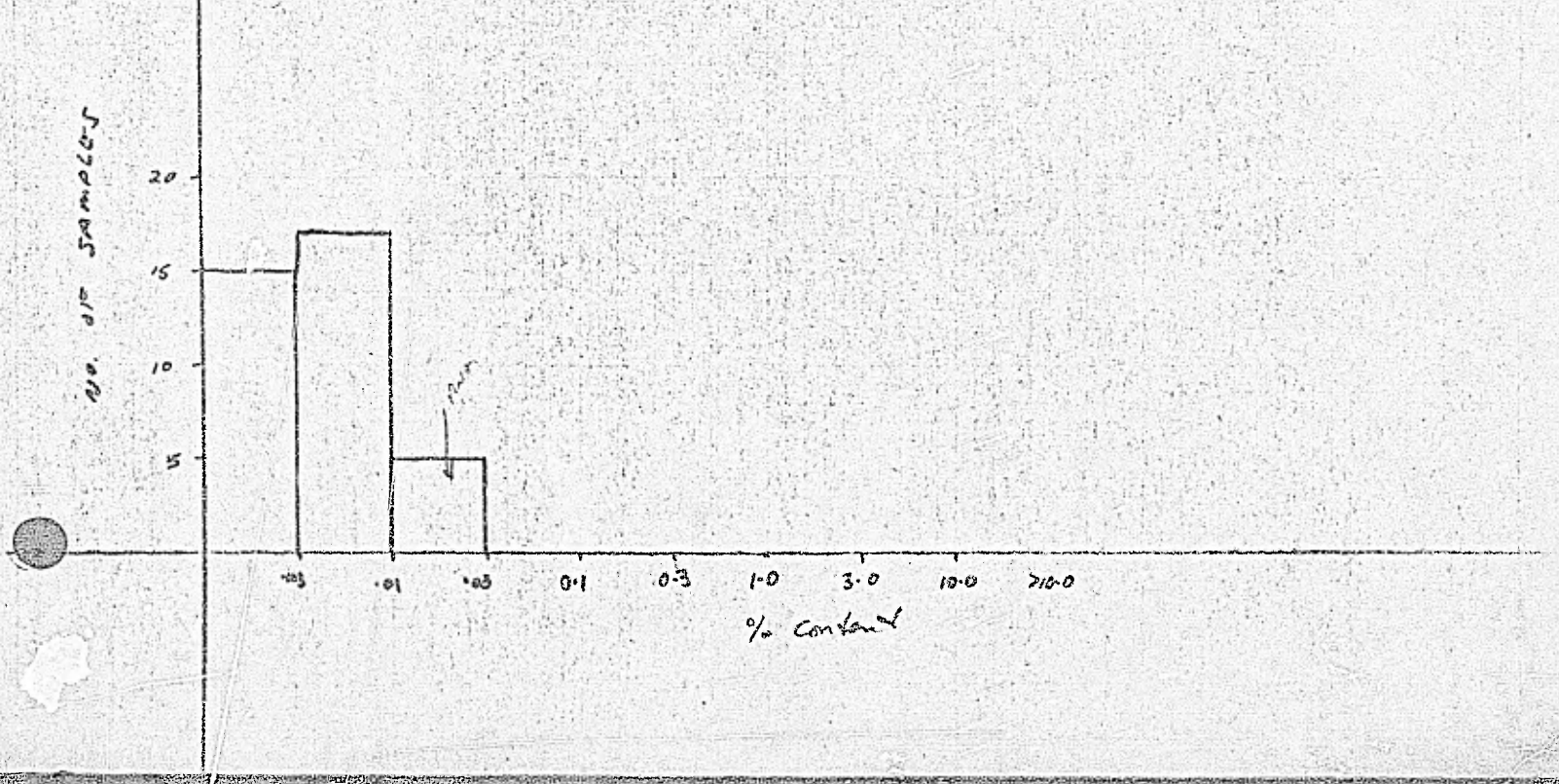


MONTVIEL BASAL TILL

La

SPECTROGRAPHIC SCAN
SEMI QUANT.

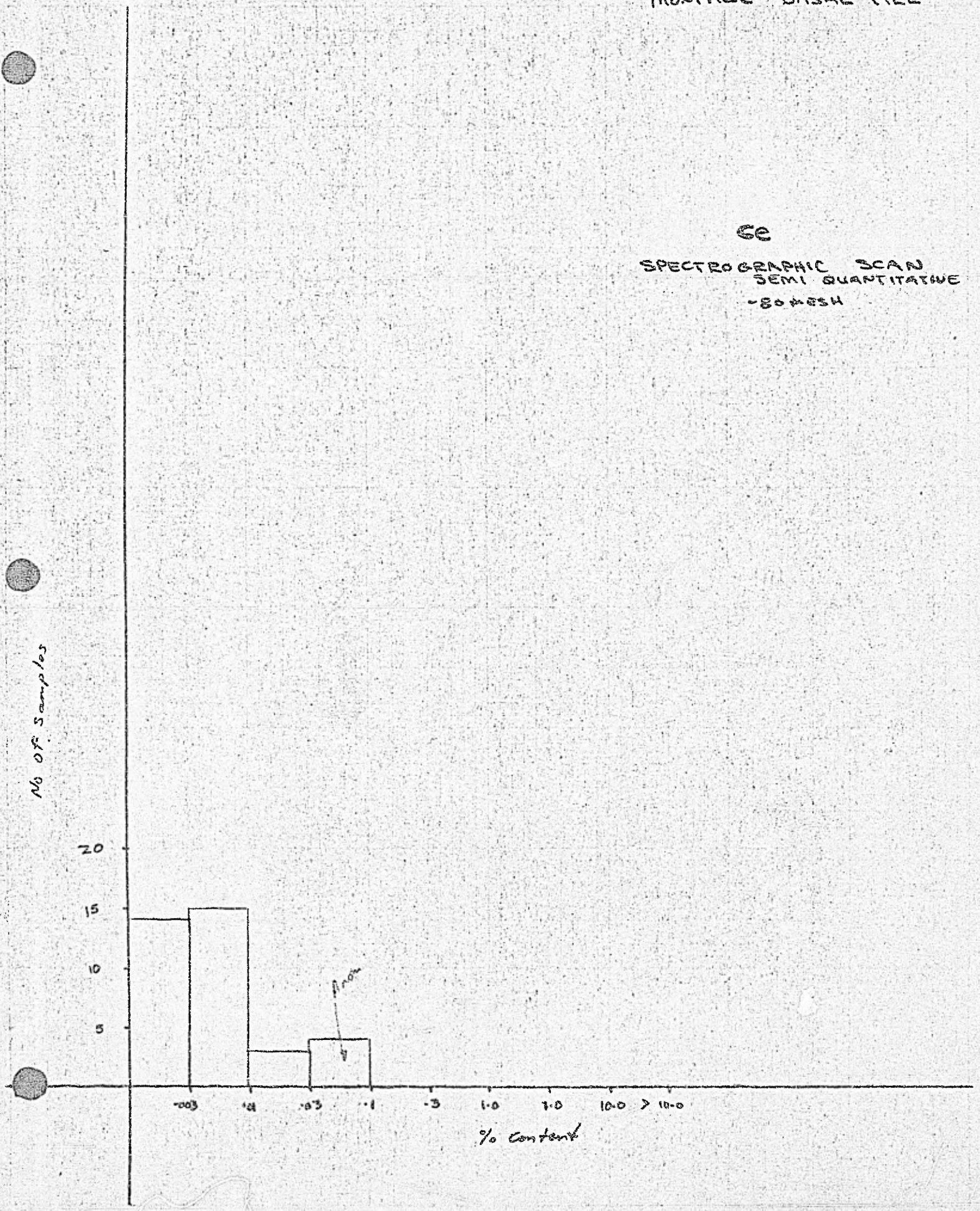
-80 MESH



MONTVIEL BASAL TILL

Ce

SPECTROGRAPHIC SCAN
SEMI QUANTITATIVE
-80 MESH

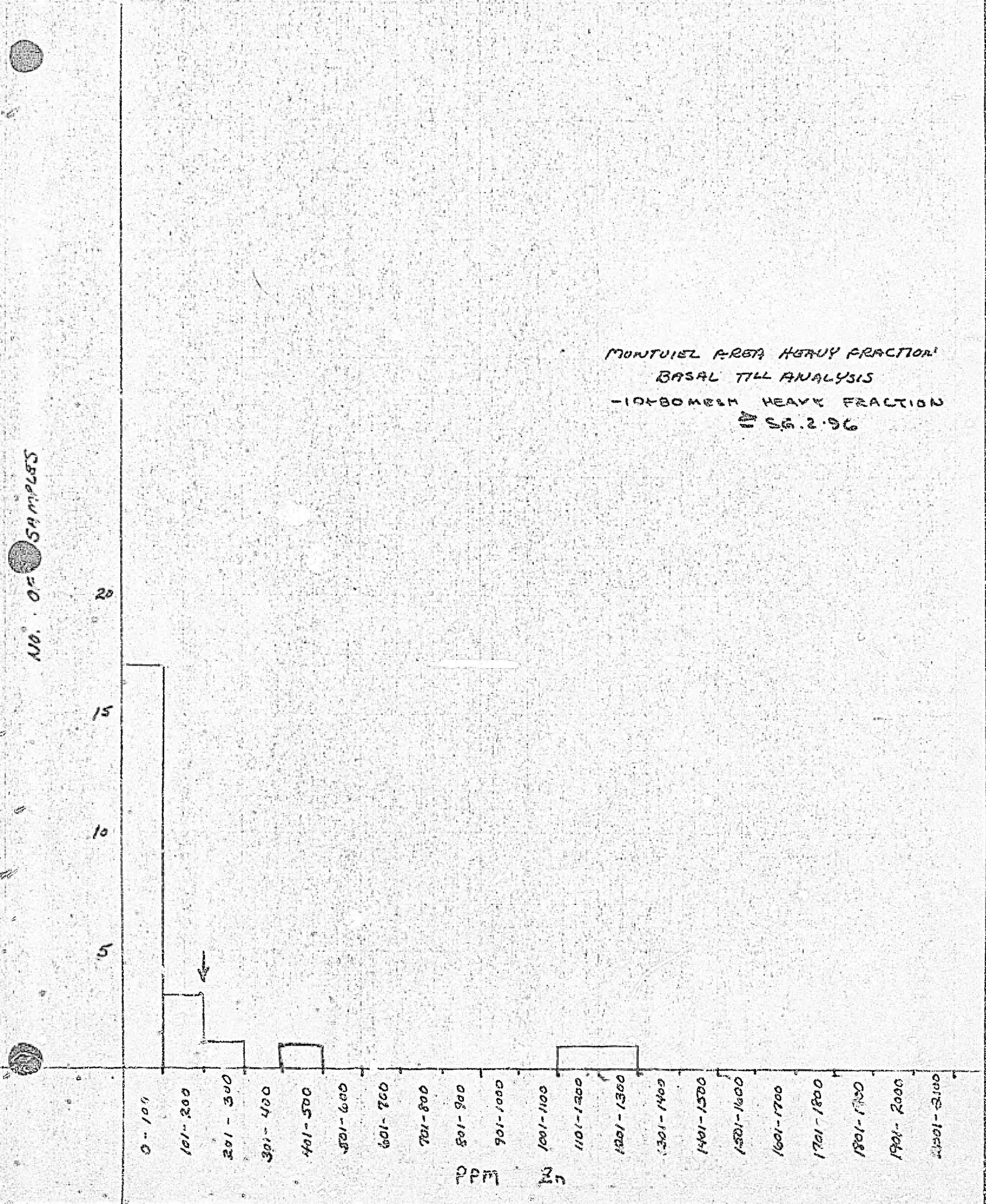


MONTVIEL AREA HEAVY FRACTION
BASAL TILL ANALYSIS
-10+80 MESH HEAVY FRACTION
N 50 2.96

MONTVIEL AREA HEAVY FRACTION
BASAL TILL ANALYSIS
-80 mesh

MONTVIEL AREA HEAVY FRACTION
BASAL TILL ANALYSIS
- 80 mesh

MONTVIEL AREA HEAVY FRACTION
BASAL TILL ANALYSIS
-10+80 HEAVY FRACTION
⩾ SG. 2.96


MONTVIEL AREA HEAVY FRACTION
BASAL TILL ANALYSIS
-10+80 MESH HEAVY FRACTION
≥ S.G. 2.96
NO. OF SAMPLES
20
15
10
5
0 - 100
101 - 200
201 - 300
301 - 400
401 - 500
501 - 600
601 - 700
701 - 800
801 - 900
901 - 1000
1001 - 1100
1101 - 1200
1201 - 1300
1301 - 1400
1401 - 1500
1501 - 1600
1601 - 1700
1701 - 1800
1801 - 1900
1901 - 2000
2001 - 2100
PPM Zn

MONTVIEL AREA HEAVY FRACTION
BASAL TILL ANALYSIS
-10+80 MESH HEAVY FRACTION
@ S.G. 2.90

MONTVIEL AREA HEAVY FRACTION
BASAL TILL ANALYSIS
-10+80 MESH HEAVY FRACTION
(FSG 2.96)

APPENDIX IV

DRILL CORE ANALYTICAL RESULTS

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO M3B 2T8 445-5755

Certificate of Analysis

NO. 256 PAGE

TO. Duval International Corporation,
Ste.906, 11 Adelaide St.West,
Toronto, Ont. M5H 1L9.

RECEIVED July 8/74 INVOICE NO. 256

SAMPLE(S) OF 20 S.Core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Hole No. 3

Footage	Sample	% Cb_2O_5
250-255	1601	0.01
255-260	02	0.01
260-265	03	0.03
265-270	04	0.02
270-275	05	Trace
275-280	06	0.01
280-285	07	0.03
285-290	08	0.10
290-295	09	0.44
295-300	10	0.01
300-305	11	0.02
305-310	12	0.02
310-315	13	Trace
315-320	14	0.01
320-325	15	0.03
325-330	16	0.04
330-335	17	0.02
335-340	18	0.04
340-345	19	0.03
345-350	20	0.02

X-RAY ASSAY LABORATORIES LIMITED

DATE July 11/74 CERTIFIED BY E J Brooks

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO M3B 2T8 445-5755

Certificate of Analysis

Put on footages & Hole Nos. Put - Copy to VH.

NO. 265 PAGE

TO. Duval International Corporation,
Ste.906, 11 Adelaide St.W.,
Toronto, Ont. M5H 1L9.

RECEIVED July 8/74 INVOICE NO. 265

SAMPLE(S) OF 65 S.Core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Hole No 3	Sample	% Cb_2O_5
350 - 355	1621	Trace
355 - 360	22	Nil
360 - 365	23	0.02
365 - 370	24	Nil
372.7 - 374	25	0.01
400 - 405	26	Nil
[illegible] - 410	27	Nil
[illegible]0 - 415	28	Nil
415 - 420	29	Trace
420 - 425	30	Nil
425 - 430	31	Trace
430 - 435	32	0.01
435 - 440	33	0.01
440 - 445	34	Trace
445 - 450	35	Trace
482.5 - 484	36	0.01
486.8 - 489.6	37	Trace
492. - 497.5	38	0.01
225 - 230	39	0.01
230 - 235	40	Trace
235 - 240	41	Trace
240 - 245	42	Trace
245 - 250	43	Trace
250 - 255	44	Nil
255 - 260	45	0.01
260 - 263.5	46	Trace
265 - 270	47	Trace
270 - 275	48	0.01

Hole No 2	Sample	% Cb_2O_5
275 - 280	1649	Trace
280 - 285	50	0.02
285 - 290	51	Trace
290 - 295	52	Trace
295 - 299	53	0.05
300 - 310	54	Trace
310 - 315	55	Nil
315 - 320	56	Trace
325 - 335	57	Trace
335 - 340	58	0.03
340 - 345	59	0.04
345 - 350	60	0.01
350 - 357.5	61	Trace
360 - 375	62 *	Trace
221. - 223.7	63	Trace
229 - 235	64	0.10
235 - 240	65	Trace
240 - 245	66	Nil
245 - 250	67	Nil
250 - 262.5	68	Trace
262.5 - 275	69	Trace
275 - 285	70	Trace
285 - 295	71	0.01
305 - 315	72	Trace
315 - 325	73	Trace
325 - 350	74 **	Trace
350 - 360	75	Trace
360 - 375	76	Trace

Hole No 1	Sample	% Cb_2O_5
375 - 387.5	1677	0.03
387.5 - 400	78	0.01
400 - 412.5	79	0.03
412.5 - 425	80	0.01
450 - 466	81	0.05 (0.08%)
478 - 500	82	0.04
500 - 513	83	0.14
513 - 525	84	0.20
525 - 535	85	0.12

RECEIVED
JUL 15 1974
Ans'd.....

N.B. last 50' of Hole 2 MISSING

* 362.5 - 364.0
365.0 - 366.5
370.0 - 375.0

** 50% core missing or disbare

X-RAY ASSAY LABORATORIES LIMITED

DATE July 11/74

CERTIFIED BY E. J. Brook

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO M3B 2T8 445-5755

Certificate of Analysis

NO. 182 PAGE 1 of 1

TO. Duval International Corporation,
11 Adelaide Street West, Suite 906,
TORONTO, Ontario.
M5H 1L9.

RECEIVED June 25, 1974 INVOICE NO. 182

SAMPLE(S) OF 19 S. Core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

HOLE	FROM	TO	Sample No.	% Cb_2O_5
2	425	430	2278	0.01
2	430	435	79	0.03
2	435	440	80	Trace
2	440	445	81	Trace
2	446	450	82	Trace
3	381	384	83	Trace
3	385	387.5	84	Trace
3	390	395	85	Trace
3	395	400	86	Trace
3	400	405	87	0.11
3	205	210	88	0.03
3	210	215	89	0.03
3	215	220	90	0.01
3	220	225	91	0.01
1	445	450	92	0.08
1	440	445	93	0.05
1	435	440	94	0.15
1	425	430	95	0.08
1	420	425	96	0.05

Montreal Results check against subsequent results from vendor

HIGHER OVERALL THAN #3

RECEIVED
JUL 2 1974
Ans'd

X-RAY ASSAY LABORATORIES LIMITED

DATE June 26, 1974 CERTIFIED BY

TABLE I — Data Summarized from Assay Sheets.

Sample#	Hole#	Footage	Interval	Cu	Pb	Zn	MoS_2	Au, Ag	U_3O_8	ThO_2	Nb	Ce	Others	
2201	3	240-245	5.0'	¼ 01%	.01-0.10%	.01-0.10%	—	X	0.03%	0.04%	0.1-1.0%	0.05-0.3%		
2202	3	245-250	5.0'	—"—	.05-0.5%	.05-0.5%	≤ .01%	X	Trace	0.11%	.05-0.5%	0.1-1.0%		
2203	3	230-235	5.0'	—"—	0.05-0.50%	0.1-1.0%	≤ .01%	X	Nil	0.31%	0.01-0.10%	—"—		
2204	3	225-230	5.0'	—"—	—"—	0.01-0.10%	—	X	Nil	0.08%	0.01-0.10%	—"—		
2205	3	235-240	5.0'	—"—	0.01-0.10%	0.05-0.50%	—	X	Trace	0.08%	—"—	—"—		
2206	3	262-263	1.0'	—"—	0.05 0.50%	—"—	—	X	Nil	0.15%	—"—	—"—		
2207	1	350-375	25' ONE CHIP TAKEN EVERY FOOT	—"—	.01-0.10%	0.05-0.50%	—	X	X	X	—	0.05-0.50%		
2208	OUTCROP SAMPLE	GRAB SAMPLE, SEVERAL CHIPS - 2 lb Total Weight		0.48%	0.10%	0.28%	Nil	Trace Trace	X	X	X	X	OUTCROP AREA TRENCH AREA	3
2209	3	125-150	25' ONE CHIP TAKEN EVERY FOOT	≤ .01%	0.01-0.10%	0.05-0.50%	—	X	—	0.01-1.0%	.05-0.50%	0.1-1.0%		
2210	3	122-123.5	1.5'	—"—	—"—	0.05-0.50%	—	X	Nil	0.07%	0.01-0.10%	0.10-1.0%		
2211	3	150-175	25' ONE CHIP TAKEN EVERY FOOT	—"—	—"—	—"—	—	X	—	.01-0.10%	—"—	—"—		
2212	3	356-359	3.0'	—"—	0.41%	—"—	—	X	—	—"—	—"—	—"—		
2213	3	327-330	3.0'		0.01-0.10%	0.1-1.0%	—	X	Nil	.08%	—"—	—"—		
2214	2	225-250	25' ONE CHIP TAKEN EVERY FOOT	≤ .01%	.01-0.10%	0.01-0.10%	≤ .01%	X	—	.01-0.10%	—	0.05-0.50%		
2215	1	478.5-485	6.5'	—"—	—"—	—"—	—	X	Nil	0.02%	—	—"—		
2216	1	490-495	5.0'	—"—	0.10%	0.05-0.50%	—	X	Nil	0.06%	0.01 0.10%	0.10-1.0%		
2217	2	222.5-225	2.5'	—"—	0.01-0.10%	0.01-0.10%	≤ .01%	X	—	0.01-0.10%	—	0.05-0.50%		
2218	1	231.5-250	18.5'	—"—	—"—	—"—	—	X	—	—"—	0.01-0.10%	0.1-1.0%		
2219	1	295-300	5.0'	—"—	—"—	—"—	—	X	Nil	0.02%	—"—	—"—		
2220	1	300-305'	5.0'	—"—	—"—	—"—	—	X	—	.01-0.10%	—	—"—		
2221	2	326-329	3.0'	—"—	—"—	0.05 0.50%	≤ 0.01%	X	—	—"—	—	0.05-.50%		
2222	2	357.5-362.5	5.0'	—"—	—"—	—	—"—	X	—	—"—	—	—"—		
2223	2	264-265	1.0'	—"—	—"—	.05-0.50%	—"—	X	—	0.05-0.50%	—	—"—		
No Tag	2	250-275	25' ONE CHIP EVERY FOOT	—"—	—"—	—"—	—	X	Nil	0.13%	—	—"—		

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 9847

TO. Duval International Corporation,
Ste.906, 11 Adelaide St.W.,
Toronto, Ont.
Attention: L. Barker

RECEIVED June 21/73 INVOICE NO. 9847

SAMPLE(S) OF 14 S.Core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

HOLE #	FOOTAGE	Sample	% U_3O_8	% ThO_2	% Cu	% Zn	% Pb	% MoS_2	Au. oz/ton	Ag. oz/ton
3	240-45	2201	0.03	0.04						
3	245-50	02	Trace	0.11						
3	230-35	03	Nil	0.31						
3	225-30	04	Nil	0.08						
3	235-40	05	Trace	0.08						
3	262-63	06	Nil	0.15						
- ROCK	SAMPLE	08	asked for geochemistry		0.48	0.28	0.19	Nil	Trace	Trace
3	122-23.5	10	Nil	0.07						
3	356-59	12					0.41			
3	327-330	13	Nil	0.08						
1	476.5-85	15	Nil	0.02						
1	490-95	16	Nil	0.06			0.10			
1	295-300	19	Nil	0.02						
2	264-69	23	Nil	0.13						

GRAB SAMPLE FROM OUTCROP AREA 3 - TRENCH

X-RAY ASSAY LABORATORIES LIMITED

DATE June 26/73 CERTIFIED BY

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 9847

TO. Duval International Corporation
Ste.906, 11 Adelaide St.W.,
Toronto, Ont.

RECEIVED June 21/73 INVOICE NO. 9847

SAMPLE(S) OF 1 Rock
23 S.Core

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens*	Concentration 2201 (mg/g 240-245)	2202 (mg/g 245-250)	2203 (mg/g 230-235)
Antimony	(4)	ND	ND	ND
Arsenic	(4)	ND	ND	ND
Beryllium	(2)	ND	ND	ND
Bismuth	(2)	ND	ND	ND
Cadmium	(4)	ND	ND	ND
Cerium	(5)	TL	L	L
Columbium	(4)	L	TL	T
Chromium	(4)	ND	ND	ND
Cobalt	(3)	ND	ND	ND
Copper	(1)	FT	FT	FT
Gallium	(2)	ND	ND	ND
Germanium	(1)	ND	ND	ND
Iron	(2)	M	M	M
Lead	(2)	T	TL	TL
Lithium	(4)	ND	ND	ND

Element	Sens*	Concentration 2201	2202	2203
Manganese	(1)	LM	LM	LM
Mercury	(4)	ND	ND	ND
Molybdenum	(3)	ND	FT	FT
Nickel	(1)	FT	FT	FT
Silver	(1)	ND	ND	ND
Tantalum	(5)	ND	ND	ND
Thorium	(3)	T	TL	TL
Tin	(2)	ND	ND	ND
Titanium	(2)	L	TL	T
Tungsten	(4)	ND	ND	ND
Uranium	(3)	T	FT	ND
Vanadium	(2)	ND	ND	ND
Yttrium	(3)	FT	ND	FT
Zinc	(4)	T	TL	L
Zirconium	(4)	T	T	T

LEGEND

Key To Symbols

H - 10% plus	L - 0.1-1%
MH - 5-15%	TL - 0.05-0.5%
M - 1-10%	T - 0.01-0.1%
LM - 0.5-5%	FT - 0.01% or less
	ND - Not detected

*Sensitivity (limit of detection)

1-	0.0005-0.001%
2-	0.001-0.005%
3-	0.005- 0.01%
4-	0.01 - 0.05%
5-	0.05 - 0.1%

Note: Better sensitivities can be obtained with special techniques, if and when required.

X-RAY ASSAY LABORATORIES LIMITED

DATE June 26/73 CERTIFIED BY

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 9847

TO. Duval International Corporation,
Ste.906, 11 Adelaide St.W.,
Toronto, Ont.

RECEIVED June 21/73 INVOICE NO. 9847

SAMPLE(S) OF 1 Rock
23 S.Core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens*	Concentration 2204 (Hole 3 225-230)	2205 (Hole 3 235-240)	2206 (Hole 3 242-243)
Antimony	(4)	ND	ND	ND
Arsenic	(4)	ND	ND	ND
Beryllium	(2)	ND	ND	ND
Bismuth	(2)	ND	ND	ND
Cadmium	(4)	ND	ND	ND
Cerium	(5)	L	L	L
Columbium	(4)	T	T	T
Chromium	(4)	ND	ND	ND
Cobalt	(3)	ND	ND	ND
Copper	(1)	FT	FT	FT
Gallium	(2)	ND	ND	ND
Germanium	(1)	ND	ND	ND
Iron	(2)	M	M	M
Lead	(2)	TL	T	TL
Lithium	(4)	ND	ND	ND

Element	Sens*	Concentration 2204	2205	2206
Manganese	(1)	LM	LM	LM
Mercury	(4)	ND	ND	ND
Molybdenum	(3)	ND	ND	ND
Nickel	(1)	FT	FT	FT
Silver	(1)	ND	ND	ND
Tantalum	(5)	ND	ND	ND
Thorium	(3)	T	T	TL
Tin	(2)	ND	ND	ND
Titanium	(2)	T	T	ND
Tungsten	(4)	ND	ND	ND
Uranium	(3)	ND	FT°	ND
Vanadium	(2)	ND	ND	ND
Yttrium	(3)	T	T	T
Zinc	(4)	T	TL	TL
Zirconium	(4)	T	T	T

LEGEND

Key To Symbols

H - 10% plus	L - 0.1-1%	
MH - 5-15%	TL - 0.05-0.5%	
M - 1-10%	T - 0.01-0.1%	
LM - 0.5-5%	FT - 0.01% or less	
	ND - Not detected	

*Sensitivity (limit of detection)

1- 0.0005-0.001%
2- 0.001-0.005%
3- 0.005- 0.01%
4- 0.01 - 0.05%
5- 0.05 - 0.1%

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X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E. Brooks

DATE June 26/73

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 9847

TO. Duval International Corporation,
Ste.906, 11 Adelaide St.W.,
Toronto, Ont.

RECEIVED June 21/73

INVOICE NO. 9847

SAMPLE(S) OF 1 Rock
23 S.Core

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens*	Concentration 2207 (Hole 1 350'-375')	2208 (Rock #1)	2209 (Hole 3 125'-150')
Antimony	(4)	ND	ND	ND
Arsenic	(4)	ND	ND	ND
Beryllium	(2)	ND	ND	ND
Bismuth	(2)	ND	ND	ND
Cadmium	(4)	ND	ND	ND
Cerium	(5)	TL	L	L
Columbium	(4)	ND	T	TL
Chromium	(4)	ND	ND	ND
Cobalt	(3)	ND	ND	ND
Copper	(1)	FT	L	FT
Gallium	(2)	ND	FT	ND
Germanium	(1)	ND	ND	ND
Iron	(2)	M	M	M
Lead	(2)	T	TL	T
Lithium	(4)	ND	ND	ND

Element	Sens*	Concentration 2207	2208	2209
Manganese	(1)	L	L	LM
Mercury	(4)	ND	ND	ND
Molybdenum	(3)	ND	ND	ND
Nickel	(1)	FT	FT	FT
Silver	(1)	ND	FT	ND
Tantalum	(5)	ND	ND	ND
Thorium	(3)	T	FT	T
Tin	(2)	ND	FT	ND
Titanium	(2)	T	L	T
Tungsten	(4)	ND	ND	ND
Uranium	(3)	ND	ND	ND
Vanadium	(2)	ND	FT	ND
Yttrium	(3)	T	T	T
Zinc	(4)	TL	TL	TL
Zirconium	(4)	ND	TL	T

LEGEND

Key To Symbols

H - 10% plus
MH - 5-15%
M - 1-10%
LM - 0.5-5%
L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% or less
ND - Not detected

*Sensitivity (limit of detection)

1- 0.0005-0.001%
2- 0.001-0.005%
3- 0.005- 0.01%
4- 0.01 - 0.05%
5- 0.05 - 0.1%

Note: Better sensitivities can be obtained with special techniques, if and when required.

X-RAY ASSAY LABORATORIES LIMITED

DATE June 26/73

CERTIFIED BY E. Beach

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 9847

TO.
Duval International Corporation,
Ste.906, 11 Adelaide St.W.,
Toronto, Ont.

RECEIVED June 21/73 INVOICE NO. 9847

SAMPLE(S) OF
1 Rock
23 S.Core

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens*	Concentration 2210 (Hole 3 138-143)	2211 (Hole 3 150-179)	2212 (Hole 3 356-399)
Antimony	(4)	ND	ND	ND
Arsenic	(4)	ND	ND	ND
Beryllium	(2)	ND	ND	ND
Bismuth	(2)	ND	ND	ND
Cadmium	(4)	ND	ND	ND
Cerium	(5)	L	L	TL
Columbium	(4)	T	T	ND
Chromium	(4)	ND	ND	T
Cobalt	(3)	ND	ND	ND
Copper	(1)	FT	FT	FT
Gallium	(2)	ND	ND	ND
Germanium	(1)	ND	ND	ND
Iron	(2)	M	MH	MH
Lead	(2)	T	T	TL
Lithium	(4)	ND	ND	ND

Element	Sens*	Concentration 2210	2211	2212
Manganese	(1)	LM	L	LM
Mercury	(4)	ND	ND	ND
Molybdenum	(3)	ND	ND	ND
Nickel	(1)	FT	FT	FT
Silver	(1)	ND	ND	ND
Tantalum	(5)	ND	ND	ND
Thorium	(3)	T	T	T
Tin	(2)	ND	ND	ND
Titanium	(2)	T	T	T
Tungsten	(4)	ND	ND	ND
Uranium	(3)	ND	ND	ND
Vanadium	(2)	ND	ND	ND
Yttrium	(3)	T	T	FT
Zinc	(4)	TL	TL	TL
Zirconium	(4)	T	T	T

LEGEND

Key To Symbols

H - 10% plus
MH - 5-15%
M - 1-10%
LM - 0.5-5%
L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% or less
ND - Not detected

*Sensitivity (limit of detection)

1- 0.0005-0.001%
2- 0.001-0.005%
3- 0.005- 0.01%
4- 0.01 - 0.05%
5- 0.05 - 0.1%

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X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E.P. Beach

DATE June 26/73

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 9847 Page 6 of 9

TO. Duval International Corporation,
Ste.906, 11 Adelaide St.W.,
Toronto, Ont.

RECEIVED June 21/73 INVOICE NO. 9847

SAMPLE(S) OF 1 Rock
23 S.Core

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens*	Concentration 2213 (Hole 3 327-330)	2214 (Hole 3 225-230)	2215 (Hole 1 476-485)
Antimony	(4)	ND	ND	ND
Arsenic	(4)	ND	ND	ND
Beryllium	(2)	ND	ND	ND
Bismuth	(2)	ND	ND	ND
Cadmium	(4)	ND	ND	ND
Cerium	(5)	L	TL	TL
Columbium	(4)	T	ND	ND
Chromium	(4)	ND	ND	ND
Cobalt	(3)	ND	ND	ND
Copper	(1)	FT	FT	FT
Gallium	(2)	ND	ND	ND
Germanium	(1)	ND	ND	ND
Iron	(2)	MH	MH	M
Lead	(2)	TL	T	T
Lithium	(4)	ND	ND	ND

Element	Sens*	Concentration 2213	2214	2215
Manganese	(1)	LM	LM	LM
Mercury	(4)	ND	ND	ND
Molybdenum	(3)	FT	ND	ND
Nickel	(1)	FT	FT	FT
Silver	(1)	ND	ND	ND
Tantalum	(5)	ND	ND	ND
Thorium	(3)	T	T	T
Tin	(2)	ND	ND	ND
Titanium	(2)	T	T	TL
Tungsten	(4)	~~ND~~	~~ND~~	~~ND~~
Uranium	(3)	ND	ND	ND
Vanadium	(2)	ND	ND	ND
Yttrium	(3)	ND	FT	T
Zinc	(4)	L	T	T
Zirconium	(4)	T	T	T

LEGEND

Key To Symbols

H - 10% plus
MH - 5-15%
M - 1-10%
LM - 0.5-5%
L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% or less
ND - Not detected

*Sensitivity (limit of detection)

1- 0.0005-0.001%
2- 0.001-0.005%
3- 0.005- 0.01%
4- 0.01 - 0.05%
5- 0.05 - 0.1%

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X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY

DATE June 26/73

X-RAY ASSAY LABORATORIES

LIMITED

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Certificate of Analysis

NO. 9847

TO. Duval International Corporation,
Ste.906, 11 Adelaide St.W.,
Toronto, Ont.

RECEIVED June 21/73 INVOICE NO. 9847

SAMPLE(S) OF 1 Rock
23 S.Core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens*	Concentration 2216 (Hole1 490-495)	2217 (Hole2 222.5-225)	2218 (Hole1 231.5-250)
Antimony	(4)	ND	ND	ND
Arsenic	(4)	ND	ND	ND
Beryllium	(2)	ND	ND	ND
Bismuth	(2)	ND	ND	ND
Cadmium	(4)	ND	ND	ND
Cerium	(5)	L	TL	L
Columbium	(4)	T	ND	T
Chromium	(4)	ND	ND	ND
Cobalt	(3)	ND	ND	ND
Copper	(1)	FT	FT	FT
Gallium	(2)	ND	ND	ND
Germanium	(1)	ND	ND	ND
Iron	(2)	MH	MH	M
Lead	(2)	TL	T	T
Lithium	(4)	ND	ND	ND

Element	Sens*	Concentration 2216	2217	2218
Manganese	(1)	L	L	L
Mercury	(4)	ND	ND	ND
Molybdenum	(3)	ND	FT	ND
Nickel	(1)	FT	FT	FT
Silver	(1)	ND	ND	ND
Tantalum	(5)	ND	ND	ND
Thorium	(3)	T	T	T
Tin	(2)	ND	ND	ND
Titanium	(2)	T	T	T
Tungsten	(4)	ND	ND	ND
Uranium	(3)	ND	ND	ND
Vanadium	(2)	ND	ND	ND
Yttrium	(3)	T	ND	T
Zinc	(4)	TL	T	T
Zirconium	(4)	T	T	ND

LEGEND

Key To Symbols

H - 10% plus
MH - 5-15%
M - 1-10%
LM - 0.5-5%

L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% or less
ND - Not detected

*Sensitivity (limit of detection)

1- 0.0005-0.001%
2- 0.001-0.005%
3- 0.005- 0.01%
4- 0.01 - 0.05%
5- 0.05 - 0.1%

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X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY

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Toronto, Ont.

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SAMPLE(S) OF 1 Rock
23 S.Core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens*	Concentration 2219	2220	2221
Antimony	(4)	ND	ND	ND
Arsenic	(4)	ND	ND	ND
Beryllium	(2)	ND	ND	ND
Bismuth	(2)	ND	ND	ND
Cadmium	(4)	ND	ND	ND
Cerium	(5)	L	TL	TL
Columbium	(4)	T	ND	ND
Chromium	(4)	ND	ND	ND
Cobalt	(3)	ND	ND	ND
Copper	(1)	FT	FT	FT
Gallium	(2)	ND	ND	ND
Germanium	(1)	ND	ND	ND
Iron	(2)	MH	MH	H
Lead	(2)	T	T	T
Lithium	(4)	ND	ND	ND

Element	Sens*	Concentration 2219	2220	2221
Manganese	(1)	L	L	L
Mercury	(4)	ND	ND	ND
Molybdenum	(3)	ND	ND	FT
Nickel	(1)	FT	FT	FT
Silver	(1)	ND	ND	ND
Tantalum	(5)	ND	ND	ND
Thorium	(3)	T	T	T
Tin	(2)	ND	ND	ND
Titanium	(2)	T	T	T
Tungsten	(4)	ND	ND	ND
Uranium	(3)	ND	ND	ND
Vanadium	(2)	ND	ND	ND
Yttrium	(3)	T	T	ND
Zinc	(4)	T	T	TL
Zirconium	(4)	T	T	T

LEGEND

Key To Symbols

H - 10% plus
MH - 5-15%
M - 1-10%
LM - 0.5-5%
L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% or less
ND - Not detected

*Sensitivity (limit of detection)

1- 0.0005-0.001%
2- 0.001-0.005%
3- 0.005- 0.01%
4- 0.01 - 0.05%
5- 0.05 - 0.1%

Note: Better sensitivities can be obtained with special techniques, if and when required.

X-RAY ASSAY LABORATORIES LIMITED

DATE June 26/73 CERTIFIED BY

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 9847

TO. Duval International Corporation
Ste.906, 11 Adelaide St.W.,
Toronto, Ont.

RECEIVED June 21/73 INVOICE NO. 9847

SAMPLE(S) OF 1 Rock
23 S.Core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens*	Concentration 2222 (Hole 2 357-5-362.5)	2223 (Hole 2 244-261)	No Tag (Hole 2 250-275)
Antimony	(4)	ND	ND	ND
Arsenic	(4)	ND	ND	ND
Beryllium	(2)	ND	ND	ND
Bismuth	(2)	ND	ND	ND
Cadmium	(4)	ND	ND	ND
Cerium	(5)	TL	TL	TL
Columbium	(4)	ND	ND	ND
Chromium	(4)	ND	ND	ND
Cobalt	(3)	ND	ND	ND
Copper	(1)	FT	FT	FT
Gallium	(2)	ND	ND	ND
Germanium	(1)	ND	ND	ND
Iron	(2)	MH	H	MH
Lead	(2)	T	T	T
Lithium	(4)	ND	ND	ND

Element	Sens*	Concentration 2222	2223	No Tag
Manganese	(1)	L	L	L
Mercury	(4)	ND	ND	ND
Molybdenum	(3)	FT	FT	ND
Nickel	(1)	FT	FT	FT
Silver	(1)	ND	ND	ND
Tantalum	(5)	ND	ND	ND
Thorium	(3)	T	TL	T
Tin	(2)	ND	ND	ND
Titanium	(2)	T	T	T
Tungsten	(4)	ND	ND	ND
Uranium	(3)	ND	ND	ND
Vanadium	(2)	ND	ND	ND
Yttrium	(3)	ND	ND	ND
Zinc	(4)	ND	TL	TL
Zirconium	(4)	T	T	T

LEGEND

Key To Symbols

H - 10% plus
MH - 5-15%
M - 1-10%
LM - 0.5-5%
L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% or less
ND - Not detected

*Sensitivity (limit of detection)

1- 0.0005-0.001%
2- 0.001-0.005%
3- 0.005- 0.01%
4- 0.01 - 0.05%
5- 0.05 - 0.1%

Note: Better sensitivities can be obtained with special techniques, if and when required.

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E. P. Beard

DATE June 26/73