



Ontario



010

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
159 Cedar Street, 4th Floor
Sudbury, Ontario
P3E 6A5

Telephone: (705) 670-7264
Fax: (705) 670-7262

June 24, 1991

Anne Casselman
Mineral Research Canada
1 Industrial Blvd.
R. R. #2
Parry Sound, Ontario
P2A 2W8



DUPPLICATE
COPY

Dear Anne:

Subject: Kaolin Laboratory Work as Assessment Credit

2.15955

I have read the material you forwarded, and contacted Brookfield Engineering and Ortech International to discuss the costs for the various lab tests.

1) COSTS FOR THE LAB TESTS

a) Viscosity

I called Brookfield Engineering Laboratories in Stoughton Mass. regarding their lab costs. They charge \$80.00 US per hour. Ortech also uses a Brookfield instrument to perform viscosity tests. The enclosed correspondence outlines their fees, approximately \$35.00 per sample for large batches.

Using your estimates for sample prep and run time about 40 minutes, Brookfield's charges for lab time, and Ortech's fees, I have arrived at \$50.00 per sample for your Viscosity Test.

b) Other costs you provided

The fee schedule you provided for Ortech International January 9, 1991 and a new schedule obtained on June 18, 1991 were used in conjunction with your estimates to arrive at the following costs per sample for the other tests:

Abrasion	(your estimate)	\$ 150. 00
Silica Fractionation with Ro Tap: (Ortech)		\$ 105. 00
Particle Size Distribution with Sedigraph: (Ortech)		\$ 130. 00
Moisture:	(Ortech)	\$ 45. 00
Brightness:	(Ortech)	\$ 100. 00
pH:	(your estimate)	\$ 10. 00

Most people include their time to prepare the report. You can add the cost of your time to compile and prepare the data and report also. I have included some copies of the Work Forms.

2) CONTENT OF THE REPORT

The report should be presented using the following table of contents:

- 1) Location and access to property
- 2) Claim numbers
- 3) Ownership
- 4) Summary of exploration work to date

Brief outline of what has been done on the property:
Drilling Program, Other Work.

- 5) Explanation of the tests.

For each test outline:

- equipment used.
- parameter or property of Kaolin tested.
- the importance of testing this property of the Kaolin.
- what "good" results are, (ie) high brightness, low abrasion, etc.
- include a presentation of commercially acceptable properties

Notes:

- 1) For Sedigraph Particle Size Distribution, provide a brief explanation of how to interpret the graphs, ie which parameter belongs to the bar graph, and which belongs to the curve.
- 2) Explain the results for brightness. A "brightness" is presented and several other data values. Which are of use in your determination of whether the product is usable.
- 3) Explain why the moisture test is needed
- 4) Data:

I have proposed a format to present the data. Note that if you currently use a different method of compiling and presenting data in a similar fashion, it will probably be fine. Call me if you have any questions.

However you chose to present the data, you must reference the results to a drill hole location, depth and sample number. If drill logs are filed then include the Work Report number for reference. If the logs are not filed, please include them.

a) Spread sheet format for Viscosity, Abrasion, pH, and Brightness

hole#	sample#	parametres				
		Viscosity	Abrasion	pH	Brightness	
		(CPS)	routine	gm/M2		

Printouts for Sedigraph Particle Size are fine as presented. Rotap results are also fine as presented. You will have to organize the results on a per hole basis as outlined above.

5 Discussion of results

6) Recommendations for follow up work

Maps and Sketches:

- 1) Location map for property
- 2) Location map of drill holes

Appendix

Wood's Kaolin Paper

3) FILING AS ASSESSMENT WORK

You will have to file this Report under "Other Authorized Work". It can be accepted under sub Section 18(9) of the Mining Act Regulations:

"Applications of new methodology or presentation of previously submitted field data which contribute new information to the geotechnical database."

I have enclosed a Sample Statement of Costs which you can follow to complete the documentation for filing, and copies of the Work Report Forms.

If you have any questions, please contact me at this office.

Yours truly,

Blair Kite

Blair Kite
Supervisor Mining Lands Tenure
Mines & Minerals Division

BK/jl
Enclosures:

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007000

5.0 PRICING

RE: OUR QUOTATION NUMBER 930101T

CHEMEX CODE	DESCRIPTION	MINERAL RESEARCH CANADA INC. PRICE PER SAMPLE
226/208	Crush/split (up to 5 lbs material) Ring, pulverize to -150 mesh (>90%) (200-250 gram material)	\$ 3.51
217	Dry and pulverize the sample (up to 200 gram material) to -150 mesh (>90%)	\$1.76
214/225	Handling charge for pulps not prepared in house	NO CHARGE
A12	Majors only - whole rock package includes major oxides as well as loss on ignition	\$18.00

Please include our reference number 930101T on all sample shipments related to this project.

2.15955

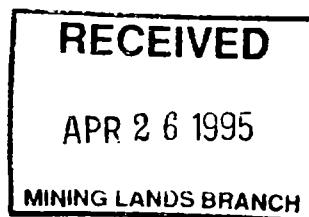
PREPARED FOR MINERALS RESEARCH CANADA INC.

JANUARY 6, 1993

Yours truly,

Adriana Alexanru
Analytical Lab Manager

AA/tmn



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TESTING PROCEDURES

RECEIVED

APR 26 1995

MINING LANDS BRANCH

The following tests are used almost exclusively by the pulp & paper industry for the testing of kaolin and to a limited extent by the ceramics, rubber and other industries. These being: viscosity, abrasion, particle size distribution (by Ro-tap & Sedigraph), moisture, brightness and pH. Due to the highly lensic nature of the Moose River deposit extensive testing is required as each lithologic unit must be treated separately to evaluate its potential. The methods and equipment models used are described for each test.

VISCOSITY - provides a rough indicator as to the presence of smectites (a similar clay mineral to kaolin but has a quality of expanding to up to 11 times its length in the presence of water due to hydroxyl incorporation into the lattice structure). Viscosity is critical in the pulp and paper industry as kaolin is almost always shipped as a slurry at 70.0% solids. These slurries must be unloaded with little difficulty and remain fluid during shipping without settling out or becoming more viscous. The kaolin particle shape can also effect the viscosity (especially if large amounts of hallyosite - a tubular kaolin - is present). There are two viscosity tests, one at high shear rates and the other at low shear rates. Our instrument is a Brookfield, model DV-II. For any viscometer model the minimum range is obtained by using the largest spindle at the highest level; the maximum range by using the smallest spindle at the lowest speed. It is a measurement of a specified percentage solids at a specific temperature and pH. For high brightness coating grade kaolin, the viscosity should be 300 - 600 cps., regular brightness coating grade viscosity runs from 200 - 600 cps., for water washed filler grade kaolin, the viscosity requirement is 150 - 300 centapoises.

PARTICLE SIZE DISTRIBUTION - this test is performed to give a early indication of the kaolin yield from the sample as well as the percentage of silica in each size fraction which may become important as more market are found for silica of certain size fractions (e.g. - golf course sand is only of a particular size fraction). The silica fractionation required the use of a Ro-tap after the clay portion (-325 mesh material) has been removed. The Ro-tap utilizes various sieve sizes to give the appropriate distribution. The clay portion is then tested with the sedigraph which used an X-ray beam to measure the portion if the fine material in each particle size, generally measured in microns. The particle size is critical for kaolin, it is the most crucial factor by which quality is judged. Each application of kaolin has a different particle size distribution requirement. See figure 1 (particle size for the paper products), figure 2 is a typical sedigraph for ceramic grade material. Our sedigraph results are as follows; page 1: shows tabular data of cumulative mass percent finer and mass percent in interval vs. diameter. Page 2: the curve represents cumulative mass percent finer vs. equivalent spherical diameter. Page 3: columns indicate mass population (percent in

interval) vs. equivalent spherical diameter. The instrument model is a Micromeretics Sedigraph 5100.

MOISTURE - determination of moisture must be completed in order to calculate the Ro-tap screen fractions (percentage of total dry material).

BRIGHTNESS - a significant element for the paper industry , the whiter the material is the higher the price the material commands. Brightness is especially important in kaolin that is used in paper coating. The brightness must be high to provide a good reflectance, opacity and gloss. Our instrument is a Technibrite Micro TB -1C, & is fully automatic microprocessor based that provides brightness, opacity, colour and fluorescence measurements. The powdered kaolin is pressed into a pellet form before obtaining a brightness reading.

pH - a reading is taken as an indicator of the settling quality of the sample as well as being required to perform the viscosity and abrasion tests and is a rough estimate as to the possible chemical loading of the final product - most kaolin is shipped as a pH of 4, the material from the Moose River deposit is generally alkaline. Accumet 910 meter is in our use.

ABRASION - even though the particle size distribution may indicate a large percentage of fine particles it is important that these particles be almost entirely kaolin. Silica in the Moose River deposit is frequently as fine as the kaolin platelets and because kaolin and quartz has the same specific gravity there is a constant challenge in removing sufficient silica to reduce the abrasion to an acceptable level. It is required that most abrasives be removed as their presence causes excess wear on apparatus when producing paper. The instrument used is Einlechner AT 100. Dry kaolin (100 g) is mixed with 300 mls of water, agitated 5.0 minutes, flushed with 700 mls of water, pH is then adjusted. The standard duration of the test is 2.0 hours. The abrasion of the test is measured as loss in weight g/m^2 suffered by standard test screen having an abrasion areas of 305 mm^2 . For the regular and high brightness coating grade kaolins, abrasion value must be less than 65 g/m^2 and water washed filler grade kaolin abrasion value is less than 100 g/m^2 .

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MINING LANDS BRANCH

MINERAL RESEARCH CANADA Inc.

Mineral Processing Facility
Tel. (705) 378 - 2416
Fax. (705) 378 - 5123

1 Industrial Blvd. R. R. # 2
Parry Sound, Ontario
Canada P2A 2W8

LOCATION AND ACCESS TO PROPERTY

2.15955

The kaolin/silica project claims are located in the townships of Kipling and Emerson in the area of and comprising the claims historically known as the Douglas property. The claims are on the Mattagami River in the area of the Kipling Hydro dam approximately 100 miles southwest of James Bay in Ontario.

The claims are accessible by driving north on highway 634 from Smooth Rock Falls to Fraserdale (approximately 45.0 miles). Then a private Ontario Hydro road may be taken west for 40 miles to the Smoky Falls dam. A road then continues north for approximately 6 miles to the Kipling dam.

CLAIM NUMBERS

The kaolin/silica property consists of 371 claims (as of Dec. 15, 1994) as well as 8 patented and one leased claim. The claim numbers are P 900001 - P 900100, P1089038 - 1089073, 1089078 - 1809111, 1090037 - 1090044, 1112282 to 1112306, 1112317 - 1112351, 825792 - 825811, 880001 - 880016, 970070 - 970104, 970168 - 970200, 983551 - 983566 & 1198514 - 1198526.

The claim numbers that this work is to be filed on are P 900001 - 900100.

OWNERSHIP

The claims are wholly owned by Great Lakes Kaolin Inc.

PREVIOUS WORK

The property history as complied by A. Gourley (1989) cites Robert Bell of the GSC as the first person to document the presence to clay and lignite in the James Bay Lowlands on Coal Brook in 1875. Borron (1891) reported extensive deposits of silica and clay on the Missinaibi River. In 1925, a report was produced by H. S. Hancock for McCarthy & Douglas regarding nine claims held on the bank of the Mattagami River and a company was formed (Northern Ontario China Clay Corporation).

In 1934 Minefinders Ltd financed the drilling of 18 holes on the west side of the Mattagami, directly across from the Douglas property, which became known as the General Refractory Products Ltd.

Fifteen holes were drilled in 1959 - 1960 by American Nepheline Ltd. with nine of these being in Kipling township.

The China Clay Syndicate comprised of New Calumet and Crang Securities drilled one hole to a depth of 163.0' north of the Douglas property in 1962. This hole is now known as C-1 after ownership transferal to the Chesterfield Mining & Exploration Co. Ltd.

Exploration in this areas continued in 1970, when Indusmin Ltd. drilled nine holes. The overburden depth in this area was approximately 100.0'.

Six hole were drilled by Geocon Ltd. on the Douglas claims in 1972. These claims were being leased by Brascan and a report was issued by C. Norman Simpson Consultants Ltd.

Ontario Geological Survey from 1975 - 1978 performed a drilling, geophysical, laboratory and field mapping study to determine Mesozoic stratigraphy.

Drilling was again conducted during 1981 by Selco Ltd. after a airborne magnetometer survey was completed. The seven holes were drilled into the anomalous magnetic areas.

Carlson Mines Ltd. optioned the Douglas property in 1985, and drilled five additional holes into the property. At this time a bulk sample was taken from the Douglas on which test work was performed by the Ontario Research Foundation (now Ortech International) and Lakefield Research. Carlson Mines Ltd. failed to complete option payments on the property resulting in forfeiture.

In 1989 the Douglas property was acquired by 798839 Ontario Ltd. (under the management of James Bay Kaolin Corp.), as well adjoining claims were staked to bring the total to 380 claims. An exhaustive drilling program of 168 holes was undertaken in which WRA, XRD, STEM, viscosity, abrasion, particle size distributions were done on core samples. Various separation techniques were developed as well as construction of a pilot plant begun.

In 1990 James Bay Kaolin Corporation was relieved of its managerial duties due to an improper rendering of accounts. The testing work continued, a 13 000 tonne bulk sample extracted and a 15 hole drilling program was completed in 1992 under the name of Mineral Research Canada Inc. for it's associated company Great Lakes Kaolin Inc.. Mineral Research Canada Inc. currently operates a small scale pilot producing kaolin materials in Parry Sound and continues with the testing work.

MINERAL RESEARCH CANADA INC.
1 INDUSTRIAL BLVD. R.R. 2 FOLEY
PARRY SOUND, ONTARIO P2A 2W8

ROYAL BANK OF CANADA
MAIN BRANCH
32 DUKE STREET WEST
KITCHENER, ONTARIO N2H 6L7

CHEQUE 814

PAY ONE SUM OF \$ 3,222 AND 00 CENTS
TO THE
ORDER OF

Chemex Labs Ltd.
212 Brooksbank Avenue
North Vancouver, B.C.
V7J 2C1

DATE
July 22, 1993
AMOUNT
\$3,222.00

MINERAL RESEARCH CANADA INC.

PER
AUTHORIZED SIGNATURE

"0000032220."

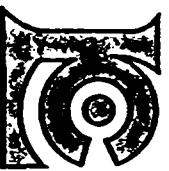
000100

10 248 2100311 118 223 117 10
\$3040

000100

Now cash it from this cheque

Chemex Labs Ltd.



Analytical Chemistry • Geochemistry • Registered Analyst
212 Brookbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL FURNACE CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000100

INVOICE NUMBER 19319987

BILLING INFORMATION

Date: 10-SEP-93
Project: KIPLING
P.O. No.: 0054
Account: KJE
Comments: 930101T

Billing:
For analysis performed on
Certificate A9319987

Terms:
Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

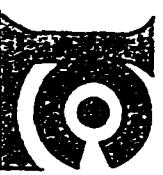
CHEMEX LABS LTD.
212 Brookbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
52	A-12 W.R.A ICP O-5 1b prep quote	18.00 3.51	21.51	1118.52
		(Reg# R10093885)	Total Cost \$ GST \$	1118.52 78.30
			TOTAL PAYABLE (CDN) \$	1196.82

*Price / sample = \$186.52 / 52 = \$3.52
Charged 19 samples at \$3.52 = \$43.72*

Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assessors
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806



To: MINERAL RESEARCH CANADA INC.
1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2WB

Comments: Project: KIPLING
ATTN: ANNE CASSELMAN

060100

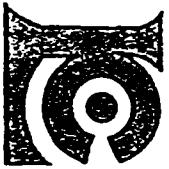
CERTIFICATE OF ANALYSIS A9319987

SAMPLE	PREP CODE	Al2O3 %	CaO %	Cr2O3 %	Ti2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TlO2 %	LOI %	TOTAL %	
2175	208	226	14.09	0.20	0.07	1.50	0.45	0.19	0.01	0.12	0.08	75.67	0.94	6.02	99.34
2176	208	226	3.56	0.11	0.10	0.56	0.17	0.06	0.01	0.12	0.09	92.99	0.47	1.52	99.76
2177	208	226	1.79	0.14	0.17	0.70	0.18	0.07	0.01	0.20	0.11	93.92	0.22	0.80	98.31
2178	208	226	3.99	0.14	0.13	0.61	0.18	0.07	0.01	0.20	0.09	93.07	0.18	1.61	100.30
2179	208	226	3.87	0.18	0.17	0.50	0.14	0.09	0.01	0.26	0.12	93.02	0.14	1.43	99.93
2180	208	226	23.21	0.29	0.07	1.14	0.63	0.28	0.01	0.22	0.11	61.31	1.16	10.12	98.55
2181	208	226	10.11	0.40	0.32	1.09	0.27	0.25	0.01	0.42	0.22	81.23	0.54	4.41	99.27
2182	208	226	4.75	0.30	0.30	0.82	0.13	0.18	0.01	0.41	0.21	90.72	0.30	1.80	99.93
2183	208	226	3.17	0.25	0.27	0.70	0.11	0.14	0.01	0.38	0.18	93.38	0.17	1.19	99.95
2184	208	226	4.13	0.38	0.32	1.06	0.13	0.18	0.01	0.44	0.21	90.86	0.29	1.60	99.61
2185	208	226	5.05	0.13	0.06	0.73	0.10	0.03	0.01	0.06	0.04	91.51	0.36	2.02	100.10
2186	208	226	8.35	0.11	0.06	0.69	0.16	0.06	0.01	0.07	0.05	86.63	0.48	3.38	100.05
2187	208	226	4.24	0.07	0.07	0.54	0.16	0.03	0.01	0.07	0.04	93.79	0.27	1.53	100.80
2188	208	226	3.06	0.07	0.04	0.49	0.15	0.02	0.01	0.06	0.04	95.18	0.11	1.06	100.30
2189	208	226	2.57	0.07	0.06	0.52	0.16	0.02	0.01	0.06	0.04	95.48	0.08	0.83	99.88
2190	208	226	3.43	0.12	0.04	0.71	0.14	0.02	0.01	0.04	0.03	92.45	0.14	1.36	98.49
2191	208	226	2.10	0.11	0.05	0.58	0.09	0.03	0.01	0.09	0.05	96.75	0.11	0.82	100.80
2192	208	226	1.86	0.10	0.04	0.48	0.06	0.03	0.01	0.08	0.04	97.19	0.10	0.68	100.65
2193	208	226	1.99	0.08	0.04	0.39	0.05	0.03	0.01	0.08	0.06	96.70	0.18	0.78	100.40
2194	208	226	3.38	0.09	0.06	0.52	0.10	0.03	0.01	0.08	0.04	96.47	0.10	1.25	100.15
2195	208	226	6.14	0.10	0.06	0.57	0.13	0.03	0.01	0.07	0.03	93.07	0.22	1.57	99.98
2196	208	226	3.15	0.10	0.06	0.64	0.09	0.03	0.01	0.07	0.04	94.28	0.27	1.21	99.95
2197	208	226	22.99	0.24	0.04	1.21	0.33	0.13	0.01	0.10	0.05	64.85	1.09	10.01	101.05
2198	208	226	4.00	0.11	0.03	0.74	0.10	0.03	0.01	0.06	0.03	92.94	0.27	1.53	99.64
2199	208	226	3.54	0.16	0.07	1.01	0.09	0.03	0.01	0.08	0.04	93.31	0.29	1.61	100.25
2200	208	226	6.94	0.12	0.06	0.71	0.12	0.04	0.01	0.09	0.04	88.91	0.40	2.71	100.15
2201	208	226	2.39	0.10	0.07	0.71	0.09	0.02	0.01	0.06	0.03	95.06	1.06	99.66	
2202	208	226	3.00	0.13	0.04	0.66	0.11	0.02	0.01	0.07	0.03	95.03	0.04	1.20	100.35
2203	208	226	3.31	0.09	0.04	0.50	0.13	0.03	0.01	0.07	0.04	95.00	0.07	1.18	100.45
2204	208	226	3.17	0.09	0.06	0.48	0.09	0.03	0.01	0.09	0.04	91.77	0.19	1.13	100.15
2205	208	226	2.62	0.08	0.06	0.40	0.09	0.03	0.01	0.09	0.05	95.88	0.09	0.93	100.35
2206	208	226	3.22	0.10	0.08	0.58	0.10	0.03	0.01	0.12	0.06	94.33	0.14	1.14	99.88
2207	208	226	2.21	0.10	0.08	0.48	0.08	0.04	0.01	0.11	0.06	95.94	0.28	0.77	100.15
2208	208	226	2.90	0.11	0.07	0.34	0.14	0.03	0.01	0.14	0.07	94.05	0.05	0.98	98.91
2209	208	226	3.16	0.11	0.09	0.49	0.17	0.05	0.01	0.13	0.06	94.68	0.07	1.13	100.15
2210	208	226	7.60	0.16	0.12	0.73	0.17	0.09	0.01	0.17	0.08	87.79	0.34	2.82	100.10
2211	208	226	4.02	0.09	0.07	0.49	0.12	0.04	0.01	0.11	0.05	93.20	0.29	1.43	99.93
2212	208	226	27.81	0.25	0.14	1.39	0.49	0.20	0.01	0.22	0.12	57.31	1.26	11.27	100.45
2213	208	226	26.75	0.21	0.08	5.22	0.57	0.18	0.01	0.13	0.09	54.86	1.11	11.23	100.40
2214	208	226	18.62	0.16	0.03	0.95	0.33	0.13	0.01	0.18	0.08	60.73	1.03	6.56	97.81

Page Number :1
Total Pages :2
Certificate Date: 08-SEP-93
Invoice No.: 19319987
P.O. Number : KJE
Account : KJE

CERTIFICATION:

Jankowski



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON.

000100

Project: KIPLING
Comments: ATTN: ANNE CASSELMAN

Page Number :2
Total Pages :2
Certificate Date: 08-SEP-93
Invoice No. : 19319907
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9319987

SAMPLE	PREP CODE	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	
17008	208	226	18.15	0.20	0.03	1.71	0.33	0.11	0.02	0.08	0.04	71.33	1.02	7.49	100.50
17009	208	226	2.95	0.09	0.04	0.41	0.06	0.03	0.01	0.08	0.06	94.05	0.18	1.10	99.06
17010	208	226	3.69	0.09	0.04	0.37	0.06	0.03	0.01	0.08	0.05	94.66	0.16	1.37	100.60
17011	208	226	3.95	0.08	0.03	0.34	0.08	0.03	0.01	0.07	0.04	93.43	0.18	1.52	99.03
17012	208	226	2.42	0.08	0.03	0.35	0.06	0.03	0.01	0.08	0.06	95.10	0.10	0.86	99.18
17013	208	226	6.73	0.12	0.07	0.75	0.15	0.07	0.01	0.10	0.05	88.98	0.51	2.89	100.45
17014	208	226	6.15	0.10	0.07	0.61	0.13	0.06	0.01	0.09	0.05	90.28	0.46	2.50	100.45
17015	208	226	11.63	0.14	0.06	0.79	0.28	0.12	0.01	0.12	0.05	81.53	0.88	4.76	100.35
17016	208	226	5.23	0.10	0.07	0.60	0.13	0.06	0.01	0.09	0.06	91.16	0.62	2.11	100.25
17017	208	226	3.13	0.08	0.06	0.39	0.12	0.03	0.01	0.08	0.05	95.09	0.11	1.20	100.35
17018	208	226	5.39	0.10	0.06	0.39	0.12	0.04	0.01	0.09	0.05	90.59	0.19	2.12	99.15
17019	208	226	2.97	0.08	0.04	0.35	0.09	0.03	0.01	0.08	0.04	95.05	0.21	1.16	100.10

CERTIFICATION:

John J. Schellen

ROYAL BANK OF CANADA
MAIN BRANCH
52 DUNLEATH STREET WEST
KITCHEENER ONTARIO N2L 4E4

MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD. RR 2 FOLEY
PARRY SOUND, ONTARIO P2A 2W8

APR 26 1995 CHEQUE

1094

MINING LANDS BRANCH

DATE

June 23, 1994

AMOUNT

\$2,994.73

MINERAL RESEARCH CANADA INC.

PER
[Signature]
AUTHORIZED SIGNATURE

Chemex Labs Ltd.
212 Brooksbank Avenue
North Vancouver, B.C.
V7J 2C1

2.15955

10:02 48 2"0031" 118" 223" 71"

"00000 2994 73."

000100

Money left \$1499.73



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
2112 Brookbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

INVOICE NUMBER 19414239

BILLING INFORMATION

Date: 18-APR-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on
Certificate A9414239

Terms:

Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payment to:

CHEMEX LABS LTD.
212 Brookbank Ave.
North Vancouver, BC,
Canada V7J 2C1

Price / sample = \$1463.74 / #^o = \$30.50
Charged 31 samples at \$30.50 = \$945-

RECEIVED

APR 26 1995

000100*



Chemex Labs Ltd.

Analytical Chemists - Geochemists - Registered Assayers
 5175 Timberlea Blvd., Mississauga,
 Ontario, Canada L4W 2S3
 PHONE: 416-624-2806

To: MINERAL RESEARCH CANADA INC.
 1 INDUSTRIAL BLVD.
 PARRY SOUND, ON
 P2A 2W8

Project: KIPLING
 Comments: ATTN: A. CASSELMAN

ÜÜÜÜÜÜ

CERTIFICATE OF ANALYSIS A9414239

SAMPLE	PREP CODE	A1203 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	
4216	208	2.87	0.15	0.06	0.48	0.12	0.06	< 0.01	0.13	0.01	95.30	0.08	1.18	100.45
4217	208	20.17	0.32	0.01	3.58	0.59	0.27	< 0.01	0.19	0.03	65.80	1.15	8.50	100.60
4218	208	14.99	0.24	0.01	2.07	0.39	0.19	0.01	0.14	0.02	74.00	0.95	6.23	99.24
4219	208	8.50	0.20	0.04	0.99	0.23	0.10	0.01	0.14	< 0.01	84.60	0.82	4.04	99.68
4220	208	5.71	0.15	0.03	0.56	0.16	0.06	< 0.01	0.13	0.01	90.80	0.47	2.30	100.40
12571	208	3.60	0.14	0.07	0.51	0.10	0.04	< 0.01	0.14	0.01	94.30	0.24	1.56	100.70
12572	208	3.41	0.13	0.04	0.46	0.09	0.04	0.01	0.13	0.01	94.10	0.20	1.31	99.93
12573	208	3.01	0.12	0.06	0.51	0.09	0.03	0.01	0.12	< 0.01	94.90	0.10	1.30	100.25
12624	208	4.97	0.14	0.05	0.52	0.16	0.05	0.01	0.14	< 0.01	92.10	0.40	1.81	100.35
12625	208	6.30	0.15	0.05	0.65	0.21	0.06	< 0.01	0.13	< 0.01	89.80	0.42	2.68	100.45
12626	208	2.77	0.14	0.04	0.38	0.16	0.04	< 0.01	0.11	0.01	95.70	0.15	0.94	100.45
12627	208	4.71	0.16	0.08	0.57	0.26	0.06	0.01	0.14	0.01	91.60	0.17	1.91	99.68
12628	208	5.15	0.14	0.06	0.51	0.29	0.04	0.01	0.10	< 0.01	92.00	0.14	1.80	100.25
12629	208	3.74	0.16	0.07	0.57	0.12	0.06	0.01	0.13	0.01	93.10	0.28	1.59	99.84
12630	208	5.56	0.19	0.09	0.74	0.16	0.07	< 0.01	0.13	0.01	90.20	0.45	2.15	99.76
12631	208	5.36	0.17	0.09	0.49	0.17	0.06	< 0.01	0.14	0.03	90.80	0.13	2.26	99.70
17020	208	3.85	0.17	0.09	0.50	0.09	0.07	0.01	0.14	0.03	93.40	0.15	1.49	99.99
17021	208	3.41	0.23	0.09	0.57	0.09	0.08	0.01	0.14	0.03	93.30	0.17	1.57	99.68
17022	208	4.63	0.17	0.11	0.55	0.11	0.07	0.01	0.15	0.03	91.90	0.16	1.96	99.85
17023	208	6.83	0.18	0.08	0.56	0.15	0.09	< 0.01	0.15	0.02	89.20	0.48	2.93	100.70
17024	208	6.21	0.16	0.03	0.45	0.13	0.07	< 0.01	0.09	0.01	90.70	0.41	2.45	100.70
17025	208	4.97	0.14	0.02	0.43	0.11	0.04	< 0.01	0.08	< 0.01	92.60	0.16	2.18	100.75
17026	208	27.87	0.38	< 0.01	1.49	0.80	0.31	< 0.01	0.11	0.02	58.00	1.12	11.37	101.50
17027	208	3.33	0.13	0.04	0.51	0.11	0.04	0.01	0.07	< 0.01	94.60	0.13	1.19	100.15
17028	208	3.08	0.14	0.09	0.61	0.09	0.06	< 0.01	0.07	0.01	94.90	0.45	1.14	100.65
17029	208	3.43	0.13	0.04	0.51	0.10	0.04	< 0.01	0.08	0.01	94.60	0.11	1.40	100.45
17030	208	3.27	0.13	0.05	0.52	0.10	0.03	< 0.01	0.08	< 0.01	94.90	0.15	1.33	100.60
17031	208	11.54	0.16	< 0.01	0.59	0.13	0.06	< 0.01	0.06	< 0.01	82.20	0.66	5.00	100.45
17032	208	4.44	0.14	< 0.01	0.44	0.10	0.04	0.01	0.07	< 0.01	93.10	0.23	1.69	100.30
17033	208	4.16	0.18	0.04	0.60	0.11	0.04	< 0.01	0.08	0.01	93.60	0.16	1.78	100.75
17034	208	2.76	0.13	0.05	0.52	0.10	0.03	< 0.01	0.08	0.01	94.80	0.13	1.32	100.60
17035	208	2.76	0.15	0.04	0.52	0.08	0.04	< 0.01	0.08	< 0.01	96.10	0.08	1.10	100.90
17036	208	10.64	0.19	0.01	0.62	0.17	0.07	< 0.01	0.08	< 0.01	82.90	0.69	4.28	100.65
17037	208	9.13	0.15	< 0.01	0.65	0.14	0.04	< 0.01	0.08	< 0.01	85.50	0.76	3.72	100.15
17038	208	9.48	0.18	< 0.01	0.81	0.14	0.05	< 0.01	0.02	< 0.01	85.20	0.86	3.88	100.65
17039	208	4.61	0.11	0.01	0.55	0.09	0.02	< 0.01	0.04	< 0.01	92.20	0.73	1.99	100.35
17040	208	2.76	0.15	< 0.01	0.36	0.05	0.02	< 0.01	0.05	< 0.01	95.90	0.43	0.72	99.40
17041	208	2.52	0.13	< 0.01	0.36	0.05	0.02	< 0.01	0.05	< 0.01	95.60	0.33	1.07	100.40
17042	208	5.90	0.22	0.09	0.59	0.11	0.09	< 0.01	0.10	0.04	90.70	0.57	2.41	100.95
17043	208	5.27	0.21	0.07	0.68	0.10	0.09	< 0.01	0.10	0.04	91.30	0.55	2.20	100.60

CERTIFICATION: *Jean D. Mac*

Page Number : 1
 Total Pages : 2
 Certificate Date: 18-APR-94
 Invoice No.: 19414239
 P.O. Number: 0054
 Account: KUE



Chemex Labs Ltd.

Analytical Chemists - Geochemists - Registered Assayers

5175 Timberlea Blvd., Mississauga,

Ontario, Canada

PHONE: 416-624-2806

To: MINERAL RESEARCH CANADA INC.
1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project: KIRPLING
Comments: ATTN: A. CASSELMAN

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CERTIFICATE OF ANALYSIS A9414239

Page Number : 2
Total Pages : 2
Certificate Date: 18-APR-94
Invoice No.: 19414239
P.O. Number : 0054
Account : KIE

SAMPLE	PREP CODE	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	
17044	208	276	3.09	0.21	0.15	0.79	0.08	0.09	< 0.01	0.13	0.06	94.00	0.76	1.37	100.75
17045	208	276	2.53	0.22	0.15	1.16	0.07	0.08	< 0.01	0.10	0.04	93.90	0.72	1.25	100.25
17046	208	276	2.70	0.22	0.09	0.61	0.08	0.08	< 0.01	0.12	0.04	95.20	0.31	1.17	100.65
17047	208	276	2.50	0.22	0.19	1.73	0.09	0.09	0.01	0.12	0.06	92.80	0.73	1.56	100.10
17048	208	276	29.54	0.34	0.09	1.86	0.45	0.17	0.01	0.15	0.02	54.00	1.09	13.28	101.00
17049	208	276	9.06	0.24	0.16	1.36	0.17	0.10	0.01	0.13	0.05	83.30	0.92	4.62	100.10
17050	208	276	30.20	0.33	0.06	1.56	0.56	0.19	< 0.01	0.11	0.02	52.70	1.04	14.26	101.05
			19.71	0.46	0.06	2.60	0.46	0.02	0.14	0.03	0.03	67.00	1.06	9.22	101.20

CERTIFICATION: *Jean D. Mac*

000100

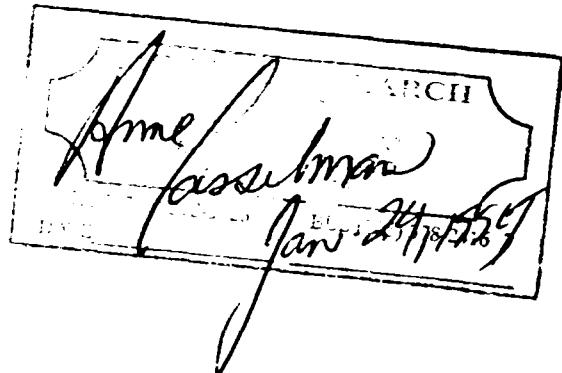
SONIC DRILL HOLE RECORD

Drilling Started: Mar. 8, 1992 Logged By: A. Casselman
Drilling Finished: Mar. 9, 1992 Logged: Mar. 29, 1993
Drilling Co.: J. R. Drilling Core Size: 3.5"
Dip: -90° Core Storage:
Hole Length: 250.0' Mineral Research Canada
Overburden Depth: 52.0' R. R. # 2
Claim No.: P825798 Parry Sound, ON
Easting: 5250 E P2A 2W8
Northing: 290 N Hole No.: 92-9
Azimuth: 50° 08' 57" N, 82° 09' 05" W
Location: 850.0' at 175° To Claim Post No. 1
Property: Kipling

SUMMARY

From	To	Description	
0.0'	42.0'	Glacial Clay Till	Overburden - Pleistocene
42.0'	47.0'	Kaolin Silica Sand (Kss)	Cretaceous
47.0'	50.0'	Kss & Clay	
50.0'	57.0'	Kss	
57.0'	67.0'	Clay	
67.0'	79.0'	Sandy Clay	
79.0'	98.0'	Kss	
98.0'	102.0'	Sandy Clay	
102.0'	106.0'	Kss	
106.0'	109.5'	Sandy Clay	
109.5'	142.0'	Kss	
142.0'	150.0'	Kss & Sandy Clay	
150.0'	160.5'	Kss	
160.5'	163.0'	Clay	
163.0'	178.5'	Kss	
178.5'	183.0'	Sandy Clay	
183.0'	201.0'	Kss	
201.0'	212.5'	Sandy Clay	
212.5'	244.5'	Kss	
244.5'	250.0'	Clay	

2.15955



EOH - 250.0'

N.B. ~ severe labelling problem by drillers from 36.0' - 97.0'.

Detail Log - 92-9

From	To	Sample No.	Description
0.0'	42.0'		Glacial Clay Till - competent, fissile, calcareous, dark green/brown, frequent gneissic and carbonate clasts.
42.0'	44.0'	17001	Kss - white, medium grain, minor illite and heavies, calcareous exterior at upper footage, 7.34% kaolin.
44.0'	47.0'	17002	Kss - as above, 8.00% kaolin.
47.0'	50.0'	17003	Kss & Clay - 47.0' - 47.5' - kss - as above, 47.5' - 48.0' - clay - highly pliable, competent, yellow/brown, some medium brown and purple mottling, 48.0' - 49.0' - coarse grain, vari-coloured silica, 49.0' - 50.0' - fine grain, white, minor illite and heavies, 19.24% kaolin.
50.0'	57.0'	17004	Kss - as above, coarser with some clay clotting at lower bag contact, 10.18% kaolin.
57.0'	62.0'	17005	Clay - competent, pliable, grey first 4.0", then light yellow, minor grey mottling, some dried, fissile due to ariel exposure, becoming grey after 59.0' - some yellow mottling, red & buff mottled from 61.0' - 61.25', then grey, silty & illitic, 70.41% kaolin.
62.0'	67.0'	17006	Clay - competent, weakly pliable, grey & yellow mottled, grading to yellow/green, grey & red mottled to grey, 67.72% kaolin.
67.0'	72.0'	17007	Sandy Clay - light grey, competent, illitic, some darker purple laminations, 47.14% kaolin.
72.0'	75.0'	17008	Sandy Clay - as above, lower clay content, 45.95% kaolin.
75.0'	79.0'	17009	Sandy Clay - as above, 7.47% kaolin.
79.0'	85.0'	17010	Kss - white, medium grain, minor illite and heavies, 9.34% kaolin.

85.0'	91.0'	17011	Kss - as above, 10.03% kaolin.
91.0'	98.0'	17012	Kss - as above, slightly coarser, 6.13% kaolin.
98.0'	102.0'	17013	Sandy Clay - light grey, minor illite and heavies, 17.04% kaolin.
102.0'	106.0'	17014	Kss - fine grain, light grey, minor illite and heavies, 15.57% kaolin.
106.0'	109.5'	17015	Sandy Clay - as previous, 29.44% kaolin.
109.5'	115.0'	17016	Kss - medium grain, white, minor illite and heavies, 13.24% kaolin.
115.0'	120.0'	17017	Kss - medium grain, as above, coarsening downsection to coarse grain vari-coloured silica, white, minor illite and heavies, drill core gouging, 7.92% kaolin.
120.0'	124.0'	17018	Kss - as above from 120.0' - 123.0', 123.0' - 124.0' - medium grain, some yellow staining, as previous, Devonian clast at 122.5', pitted dolostone, buff, 2.0", angular, fossiliferous, crinoid, 13.65% kaolin.
124.0'	128.0'	17019	Kss - medium grain, as above, 7.52% kaolin.
128.0'	132.0'	17020	Kss - as above, 9.75% kaolin.
132.0'	137.0'	17021	Kss - as above, some drilling debris, fining downsection to fine grain, 8.63% kaolin.
137.0'	142.0'	17022	Kss - as above, medium grain, 11.72% kaolin.
142.0'	150.0'	17023	Kss - as above from 142.0' - 144.0', sandy clay from 144.0' - 150.0' - fine grain, light grey, illitic, very pliable, competent, heavies concentrations, becoming finer grain downsection, 17.29% kaolin.
150.0'	155.0'	17024	Kss - as above, fine grain, 15.72% kaolin.
155.0'	160.5'	17025	Kss - drill core gouging, medium grain, white, minor illite and heavies, 159.0' - 160.5' - coarse grain, vari-coloured silica, buff, pliable, clay clotting, 12.58% kaolin.

160.5'	163.0'	17026	Clay - competent, fragmented, medium yellow/brown, pliable, highly moulded, 70.56% kaolin.
163.0'	169.0'	17027	Kss - coarse grain, vari-coloured silica in a medium grain matrix from 163.0' - 164.0', becoming medium grain, white, minor illite and heavies, 8.43% kaolin.
169.0'	171.0'	17028	Kss - medium grain, white, minor illite and heavies, heavies banding, 7.80% kaolin.
171.0'	175.0'	17029	Kss - as above, at 171.5' large clast, drill cut Devonian, 5.5", fossiliferous, corals, crinoids, brachipods, stylolitic-like laminations, darker grey sections, light grey overall, cherty area, 174.0' - banded chert/dolostone, grey, sub-rounded, chert as rip up clasts and well as laminations yellow/brown, 8.68% kaolin.
175.0'	178.5'	17030	Kss - as above, 8.28% kaolin.
178.5'	181.0'	17031	Sandy Clay - fine grain, illitic, grey becoming buff, more clay-rich downsection, 29.22% kaolin.
181.0'	189.0'	17032	Kss - white, becoming light grey, minor illite and heavies, fine grain, 11.24% kaolin.
189.0'	193.0'	17033	Kss - white, as above, 10.53% kaolin.
193.0'	196.0'	17034	Kss - as above, 8.94% kaolin.
196.0'	201.0'	17035	Kss - as above, 6.78% kaolin.
201.0'	203.0'	17036	Sandy Clay - buff, illitic, pliable, competent, darker more clay-rich sections, 26.94% kaolin.
203.0'	207.0'	17037	Sandy Clay - as above, drill core gouging, 23.11% kaolin.
207.0'	212.5'	17038	Sandy Clay - as above, 24.00% kaolin.
212.5'	215.0'	17039	Kss - fine grain, white, minor illite and heavies, 11.67% kaolin.
215.0'	218.0'	17040	Kss - medium grain, light grey, minor illite and heavies, high liquid content, washed out, drilling debris with some rusty staining, less pliable downsection, sulphureous smell, some hematitic

laminations, 4.28% kaolin.

- 218.0' 222.0' 17041 Kss - as above, becoming white, Devonian
clast at 221.5' - 1.5", angular convolute
laminations, darker upper surface lighter
lower surface bonded silica grains on
exterior as well as *in situ* hematite nodules
on the exterior, 6.38% kaolin.
- 222.0' 225.0' 17042 Kss - medium grain, as above, white, high
percentage heavies, 0.5' sandy clay at
223.5', dark buff, illitic, competent,
pliable, kss fine grain 224.0' - 225.0',
14.94% kaolin.
- 225.0' 228.0' 17043 Kss - fine grain, light brown to white,
minor illite and heavies, clay-rich in
areas, 13.34% kaolin.
- 228.0' 231.0' 17044 Kss - as above, heavies concentrations,
7.82% kaolin.
- 231.0' 234.0' 17045 Kss - as above, 6.41% kaolin.
- 234.0' 237.0' 17046 Kss - as above, 6.84% kaolin.
- 237.0' 239.5' 17047 Kss - as above, light brown, yellow & grey
at lower contact, 6.33% kaolin.
- 239.5' 243.0' 17048 Clay - chocolate brown, competent, pliable,
illitic, some lighter sandy sections,
carbonaceous, less pliable downsection,
sulphureous smell, some hematitic
laminations, 74.78% kaolin.
- 243.0' 244.5' 17049 Kss - fine grain, minor illite and heavies
for first third, second third clay-rich
chocolate brown, sandy clay, last third
yellow and medium brown laminated, 22.94%
kaolin.
- 244.5' 250.0' 17050 Clay - chocolate brown, competent, very
pliable, carbonaceous, illitic, 76.46%
kaolin.
-

EOH - 250.0'

Section 92-9

Claim No.: P825798
Hole Length: 250.0'
Overburden Depth: 42.0'
Astronomic Azimuth: 50° 08' 57" N, 82° 09' 05" W
Location: 850.0' at 175° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 290 N
Easting: 5250 E
Dip: -90°

50.0'

Gridline 5300

Section 92-9

Claim No.: P825798

Hole Length: 250.0'

Overburden Depth: 42.0'

Astronomic Azimuth: $50^{\circ} 08' 57''$ W. $82^{\circ} 09' 05''$ N

Location: 850.0' at 175° to claim post no. 1

Scale: $1.0'' = 50.0'$ or 1:600

Northing: 290 N

Easting: 5250 E

Dip: -90°



50.0'

Gridline 5300

92-9

TB

Kss

Clay

Kss

Clay

Kss

Clay

Section 92-9

Claim No.: P825798

Hole Length: 250.0'

Overburden Depth: 42.0'

Astronomic Azimuth: 50° 08' 57" N, 82° 09' 05" W

Location: 850.0' at 175° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 290 N

Easting: 5250 E

Dip: -90°



Gridline 5300

92-9

17001	7.34%
17002	8.08%
17003	11.20%
17004	10.11%
17005	70.47%
17006	67.77%
17007	47.11%
17008	45.95%
17009	7.47%
17010	1.34%
17011	11.30%
17012	6.07%
17013	17.84%
17014	15.57%
17015	21.64%
17016	13.23%
17017	7.32%
17018	13.65%
17019	7.57%
17020	5.37%
17021	6.63%
17022	11.77%
17023	11.27%
17024	15.77%
17025	0.58%
17026	71.56%
17027	6.63%
17028	2.08%
17029	6.64%
17030	8.27%
17031	21.33%
17032	11.22%
17033	8.53%
17034	9.94%
17035	6.39%
17036	26.34%
17037	21.37%
17038	11.36%
17039	8.67%
17040	6.39%
17041	6.29%
17042	6.36%
17043	11.34%
17044	3.27%
17045	6.31%
17046	1.46%
17047	6.33%
17048	10.71%
17049	72.34%
17050	76.64%

ROYAL BANK OF CANADA

MAIN BRANCH

32 DUKE STREET WEST

KITCHENER, ONTARIO N2H 6L7

MINERAL RESEARCH CANADA INC.

¹ INDUSTRIAL BLVD, R.R. ² FOLEY

PARRY SOUND, ONTARIO P2A 2W8

2.15955 CHEQUE 1094

PAY THE SUM OF \$2,994.73 00
TO THE ORDER OFChemex Labs Ltd.
212 Brooksbank Avenue
North Vancouver, B.C.
V7J 2C1

RECEIVED

DATE
June 23, 1994AMOUNT
\$2,994.73

MINERAL RESEARCH CANADA INC.

PER


UNAUTHORIZED SIGNATURE

MINING LANDS BRANCH

APR 26 1995

10248 2000316 118 223 710

0000029947310

Money left \$2744.43

000100



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
212 Brookbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000100

INVOICE NUMBER **I 9 4 1 4 0 3 0**

BILLING INFORMATION

Date: 7-APR-94
Project: 212 Brookbank Ave., North Vancouver
P.O. No.: V7J 2C1
Account: KJE
Comments:

Billing: For analysis performed on
Certificate A9414030

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

$$\text{Price/ sample} = \$365.94 / 19 = \$19.26$$

$$\text{Charged 13 samples at } \$19.26 = \underline{\underline{\$250}}$$

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brookbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

RECEIVED
APR 26 1995
MINING LANDS BRANCH



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: MINERAL RESEARCH CANADA INC.
1 INDUSTRIAL BLVD.
PARRY SOUND, ON
N2A 2W8

000100

Project: Comments: ATTN: MARCUS MARTIN

Page Number	:1
Total Pages	:1
Certificate Date:	06-APR-94
Invoice No.	19414030
P.O. Number	
Account	KJE

CERTIFICATE OF ANALYSIS A9414030

SAMPLE	PREP CODE	N1203 %	CaO %	C-203 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TlO2 %	LOI %	TOTAL %
16425	244 200	3.02	0.17	0.07	0.74	0.07	0.05	0.01	0.13	0.05	94.50	0.11	1.38	100.30
16426	244 200	2.31	0.15	0.08	0.51	0.06	0.04	0.01	0.12	0.04	95.90	0.08	0.99	100.30
16427	244 200	3.95	0.15	0.07	0.51	0.06	0.04	0.01	0.11	0.06	93.20	0.19	1.68	100.05
16428	244 200	13.96	0.20	0.05	0.77	0.15	0.08	0.01	0.12	0.07	78.00	0.72	5.91	100.05
16429	244 200	5.29	0.17	0.07	0.54	0.07	0.11	0.01	0.11	0.05	90.90	0.30	2.17	99.79
16430	244 200	2.98	0.16	0.07	0.52	0.05	0.06	0.01	0.11	0.05	94.20	0.26	1.26	99.73
16455	244 200	4.31	0.16	0.06	0.49	0.10	0.15	0.01	0.12	0.06	93.30	0.20	1.67	100.65
16457	244 200	3.08	0.16	0.09	0.46	0.13	0.06	0.01	0.14	0.05	94.60	0.08	1.22	100.10
16458	244 200	4.70	0.19	0.08	0.58	0.18	0.08	0.01	0.14	0.07	91.50	0.26	1.94	99.73
16459	244 200	14.22	0.25	0.07	0.90	0.31	0.17	0.01	0.15	0.09	76.70	0.77	6.05	99.69
16460	244 200	4.20	0.20	0.09	0.63	0.15	0.07	0.01	0.16	0.06	93.20	0.12	1.59	100.50
16465	244 200	5.69	0.17	0.06	0.53	0.15	0.06	0.01	0.14	0.05	90.80	0.25	2.35	100.25
16466	244 200	4.10	0.14	0.06	0.50	0.12	0.05	0.01	0.11	0.04	92.60	0.16	1.75	99.64
16467	244 200	3.41	0.16	0.16	0.72	0.12	0.07	0.01	0.11	0.06	93.60	0.51	1.44	100.35
244 200	7.94	0.21	0.09	1.37	0.16	0.09	0.01	0.13	0.06	85.90	0.37	3.56	99.89	
244 200	3.59	0.14	0.08	0.51	0.10	0.05	0.01	0.11	0.04	94.30	0.15	1.45	100.55	
244 200	6.42	0.18	0.08	0.76	0.12	0.08	0.01	0.13	0.05	89.40	0.47	2.70	100.40	
244 200	6.53	0.20	0.06	0.63	0.10	0.06	0.01	0.12	0.04	89.70	0.42	2.71	100.60	
244 200	11.66	0.23	0.04	0.93	0.12	0.08	0.01	0.13	0.06	80.70	0.72	5.00	99.67	

CERTIFICATION:

Claimed Total 30 samples \times \$280 = \$ 8400
Rotap 9105 =
Positive 45
Nitrophen 130

MINERAL RESEARCH CANADA

TEL: (705) 378-2416
FAX: (705) 378-5123

1 INDUSTRIAL BLVD., RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE

SCREEN % MOISTURE %

Hole 92-3

+ 4	2.0
+ 40	4.2
+100	12.0
+200	5.9
+325	4.3
-325	71.6

16401

9.0

134' - 141.5'

+ 4	1.0
+ 40	3.4
+100	14.1
+200	2.6
+325	2.7
-325	76.2

16402

10.6

R. Malmstrom

141.5' - 146.5'

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000100

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12.8

16403

+ 4	0
+ 40	2.4
+100	6.1
+200	9.2
+325	6.8
-325	75.5

2.1595 5

146.5' - 152'

20.6

16404

+ 4	0
+ 40	0
+100	0.1
+200	0.1
+325	0.3
-325	99.5

152' - 155'

+ 4	0
+ 40	0.1
+100	0.5
+200	0.1
+325	0.8
-325	98.5

17.0

16405

155' - 159'

MINERAL RESEARCH CANADA

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1 INDUSTRIAL BLVD., RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
hole 92-3	+ 4 + 40 +100 +200 +325 -325	0 0.2 0.4 1.5 4.0 93.9	
16406			19.0
159'-163'			
16407	+ 4 + 40 +100 +200 +325 -325	0 0 0.1 1.4 4.3 94.2	13.8
163'-165'			
16408	+ 4 + 40 +100 +200 +325 -325	5.5 57.8 17.4 5.1 2.4 11.8	1.0
165'-167'			000100
16409	+ 4 + 40 +100 +200 +325 -325	18.0 43.8 21.7 3.1 1.2 12.2	0.7
167'-172'			
16410	+ 4 + 40 +100 +200 +325 -325	19.0 46.0 16.0 2.7 1.3 15.0	0.4
172'-177.5'			

R. Malmstrom

MINERAL RESEARCH CANADA

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1 INDUSTRIAL BLVD., RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE

SCREEN

%

MOISTURE %

Hole 92-3

+ 4	0
+ 40	0.9
+100	0.7
+200	9.8
+325	10.8
-325	77.8

7.8

16411

172' - 181'

+ 4	0
+ 40	0
+100	0.2
+200	4.0
+325	10.9
-325	84.9

9.8

16412

181' - 182'

+ 4	0
+ 40	2.7
+100	2.1
+200	20.4
+325	12.3
-325	62.5

000100

16413

182' - 184'

+ 4	0
+ 40	8.3
+100	10.5
+200	28.1
+325	12.3
-325	40.8

4.0

16414

184' - 186'

+ 4	0.9
+ 40	59.6
+100	25.3
+200	5.0
+325	1.6
-325	7.6

1.0

16415

186' - 190'

12.4

7.8

H. Malmstrom

MINERAL RESEARCH CANADA

TEL: (705) 378-2416
FAX: (705) 378-5123

1 INDUSTRIAL BLVD., RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE

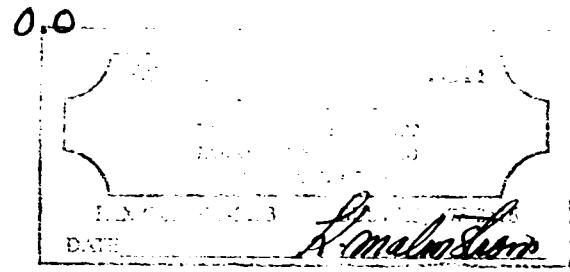
SCREEN

%

MOISTURE %

Hole 92-3

+ 4	0
+ 40	74.6
+100	12.2
+200	1.3
+325	0.5
-325	6.4



16416

190' - 196'

+ 4	2.8
+ 40	76.9
+100	12.3
+200	2.2
+325	0.8
-325	11.0

16417

196' - 198'

+ 4	7.3
+ 40	67.9
+100	15.9
+200	1.7
+325	0.5
-325	6.7

000100

16418

198-203'

+ 4	0
+ 40	35.5
+100	54.3
+200	1.6
+325	0.7
-325	7.9

5.7

16419

203'-208'

+ 4	2.7
+ 40	61.8
+100	26.7
+200	1.4
+325	0.4
-325	7.0

8.1

16420

208'-211'

7.0

MINERAL RESEARCH CANADA

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1 INDUSTRIAL BLVD., RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 92-3	+ 4 + 40 +100 +200 +325 -325	15.9 65.8 5.1 1.8 0.8 10.6	
16421	+ 4 + 40 +100 +200 +325 -325	19.3 67.2 5.1 1.4 0.7 6.3	2.5
211' - 217'	+ 4 + 40 +100 +200 +325 -325	5.8 77.8 3.9 1.4 0.6 10.5	0.2
16422	+ 4 + 40 +100 +200 +325 -325	34.7 43.3 11.4 3.3 0.7 6.6	0.0
217' - 221'	+ 4 + 40 +100 +200 +325 -325	0.1 77.7 13.3 2.3 0.7 5.9	0.3
16423	+ 4 + 40 +100 +200 +325 -325	0.1 77.7 13.3 2.3 0.7 5.9	0.0
221' - 225'	+ 4 + 40 +100 +200 +325 -325	0.1 77.7 13.3 2.3 0.7 5.9	0.7
16424	+ 4 + 40 +100 +200 +325 -325	0.1 77.7 13.3 2.3 0.7 5.9	
225' - 229.25'	+ 4 + 40 +100 +200 +325 -325	0.1 77.7 13.3 2.3 0.7 5.9	
16425	+ 4 + 40 +100 +200 +325 -325	0.1 77.7 13.3 2.3 0.7 5.9	
229.25' - 233'	+ 4 + 40 +100 +200 +325 -325	0.1 77.7 13.3 2.3 0.7 5.9	

000100

J. Malanowski

MINERAL RESEARCH CANADA

TEL: (705) 378-2416
FAX: (705) 378-5123

1 INDUSTRIAL BLVD., RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

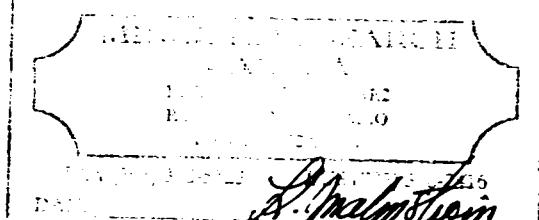
SAMPLE

SCREEN % MOISTURE %

Hole 92-3

+ 4	0
+ 40	29.7
+100	12.1
+200	2.1
+325	0.5
-325	5.6

0.0



16426

233'-237'

+ 4	0.1
+ 40	20.4
+100	15.7
+200	2.5
+325	0.7
-325	10.6

6.7

16427

237'-240'

+ 4	0
+ 40	20.9
+100	25.2
+200	12.7
+325	4.9
-325	36.3

000100

16428

240'-242.75'

+ 4	0
+ 40	19.1
+100	57.9
+200	9.0
+325	1.7
-325	12.3

10.2

16429

10.9

242.75'-245'

+ 4	0
+ 40	57.6
+100	29.8
+200	2.9
+325	0.9
-325	8.8

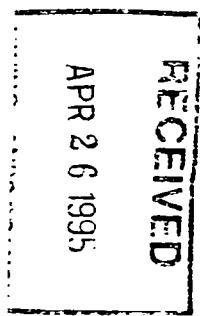
7.0

16430

245'-250'

Rotap 105 =
moisture 45
Sedigraph 130

Claimed Total 12 samples x \$ 280 = \$ 3360



MINERAL RESEARCH CANADA

TEL: (705) 378-2416
FAX: (705) 378-5123

1 INDUSTRIAL BLVD., RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE

SCREEN % MOISTURE %

Hole 89-212

+ 4	0
+ 40	1.8
+100	6.1
+200	4.7
+325	4.6
-325	82.8

16551

2.2

111' - 114'

+ 4	0
+ 40	1.0
+100	5.5
+200	2.9
+325	4.4
-325	86.3

16552

1.8

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114' - 119'

+ 4	0.7
+ 40	0.9
+100	3.5
+200	3.4
+325	2.2
-325	87.3

16553

2.0

119' - 123'

2.1995 5

+ 4	0
+ 40	0.1
+100	10.6
+200	19.8
+325	8.7
-325	60.9

16554

0.7

123' - 125'

+ 4	0
+ 40	0.1
+100	0.6
+200	1.9
+325	4.8
-325	92.6

16555

2.1

125' - 128'

000100

L. malin stan

KINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD., RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 89-212	+ 4	3	
	+ 40	3.1	
	+100	33.4	
	+200	21.4	1.3
	+325	4.6	
	-325	43.5	
16556	+ 4	3	
	+ 40	3.1	
	+100	1.0	
	+200	2.0	
	+325	5.2	
128' - 130'	-325	21.8	
16557	+ 4	3	
	+ 40	3.1	
	+100	1.0	
	+200	2.0	
	+325	5.2	
130' - 133'	-325	21.8	
16558	+ 4	3	
	+ 40	3.1	
	+100	1.0	
	+200	5.6	
	+325	5.5	
	-325	37.3	
133' - 135'	+ 4	3	
	+ 40	13.1	
	+100	33.6	
	+200	15.0	
	+325	5.1	
	-325	35.4	
16559	+ 4	3	
	+ 40	13.1	
	+100	33.6	
	+200	15.0	
	+325	5.1	
	-325	35.4	
135' - 137'	+ 4	3	
	+ 40	1.1	
	+100	1.0	
	+200	1.5	
	+325	2.7	
	-325	23.1	
16560	+ 4	3	
	+ 40	1.1	
	+100	1.0	
	+200	1.5	
	+325	2.7	
	-325	23.1	
137' - 140'	+ 4	3	

000100

H. Malmstrom

MINERAL RESEARCH CANADA

TEL: (705) 378-2416
FAX: (705) 378-5123

1 INDUSTRIAL BLVD., RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 89-212	+ 4	3.	
	+ 40	2.7	
16561	+100	2.7	
	+200	2.7	6.7
140'-145'	+325	1.7	
	-325	31.6	
	+ 4	3	
16562	+ 40	4.2	
	+100	24.2	2.1
	+200	7.1	
145'-150'	+325	3.6	
	-325	58.9	
	+ 4		
	+ 40		
	+100		
	+200		
	+325		
	-325		
	+ 4		
	+ 40		
	+100		
	+200		
	+325		
	-325		
	+ 4		
	+ 40		
	+100		
	+200		
	+325		
	-325		

L. Malmstrom

000100

SAMPLE DIRECTORY/NUMBER: DATA7 /319
 SAMPLE ID: Hole PJ 88-2 # 17251
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 88 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 12:48:28 11/08/94
 REPRT 13:00:40 11/08/94
 TOT RUN TIME 0:07:35
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7635 cp
 RUN TYPE: High Speed

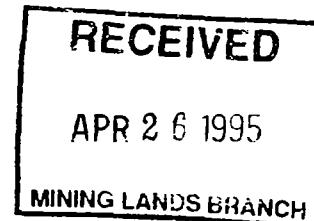
REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.88 μm MODAL DIAMETER: 1.13 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.1	1.9
80.00	98.2	-0.1
60.00	98.5	-0.3
50.00	98.9	-0.4
40.00	99.3	-0.4
30.00	98.9	0.4
25.00	98.0	0.9
20.00	96.9	1.1
15.00	95.5	1.4
10.00	91.5	4.0
8.00	88.9	2.6
6.00	84.9	4.1
5.00	81.8	3.1
4.00	78.1	3.7
3.00	73.5	4.5
2.00	67.4	6.2
1.50	62.2	5.2
1.00	52.8	9.4
0.80	47.9	4.8
0.60	42.3	5.7
0.50	38.9	3.4
0.40	34.7	4.2

2.15955



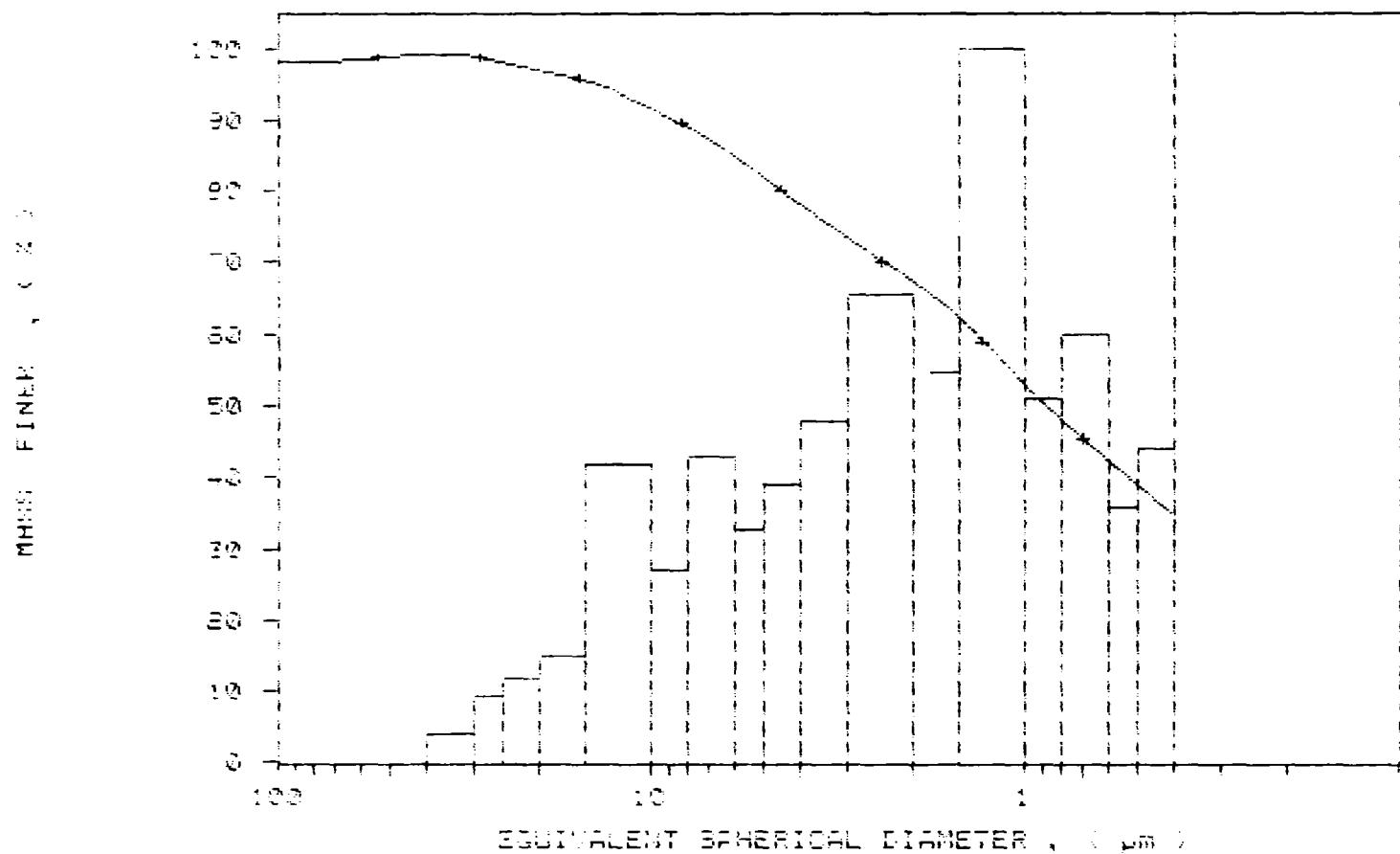
H. Malmstrom

000100

SAMPLE DIRECTORY/NUMBER: DATA7 /319
SAMPLE ID: Hole PJ 88-2 # 17251
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 88 kilocounts/sec

UNIT NUMBER: 1
START 12:48:28 11/08/94
REPRT 13:00:40 11/08/94
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

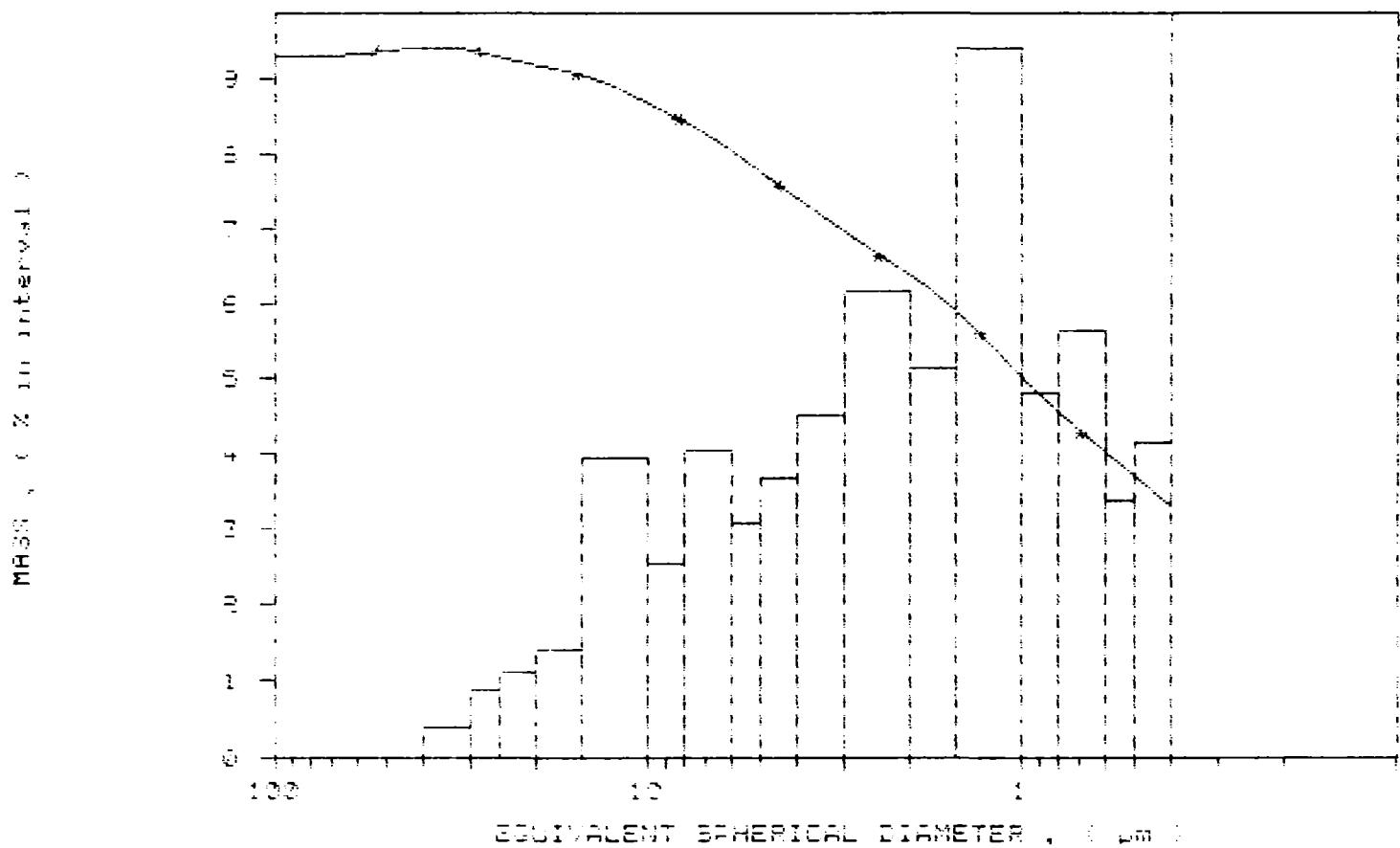
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /319
 SAMPLE ID: Hole PJ 88-2 # 17251
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 88 kilocounts/sec

UNIT NUMBER: 1
 START 12:48:28 11/08/94
 REPRT 13:00:40 11/08/94
 TOT RUN TIME 0:07:35
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7635 cp
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
 • CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /320
 SAMPLE ID: Hole PJ 88-2 # 17252
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 86 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 13:08:31 11/08/94
 REPRT 13:20:43 11/08/94
 TOT RUN TIME 0:07:40
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7634 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.86 μm MODAL DIAMETER: 0.85 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.5	1.5
80.00	99.3	-0.8
60.00	99.8	-0.5
50.00	99.7	0.0
40.00	99.6	0.2
30.00	99.2	0.4
25.00	99.0	0.2
20.00	98.7	0.3
15.00	98.6	0.1
10.00	98.4	0.2
8.00	98.2	0.2
6.00	98.5	-0.2
5.00	98.7	-0.2
4.00	98.7	-0.0
3.00	98.6	0.1
2.00	94.6	3.9
1.50	89.1	5.5
1.00	67.8	21.3
0.80	40.8	27.0
0.60	15.7	25.1
0.50	10.5	5.2
0.40	8.9	1.6



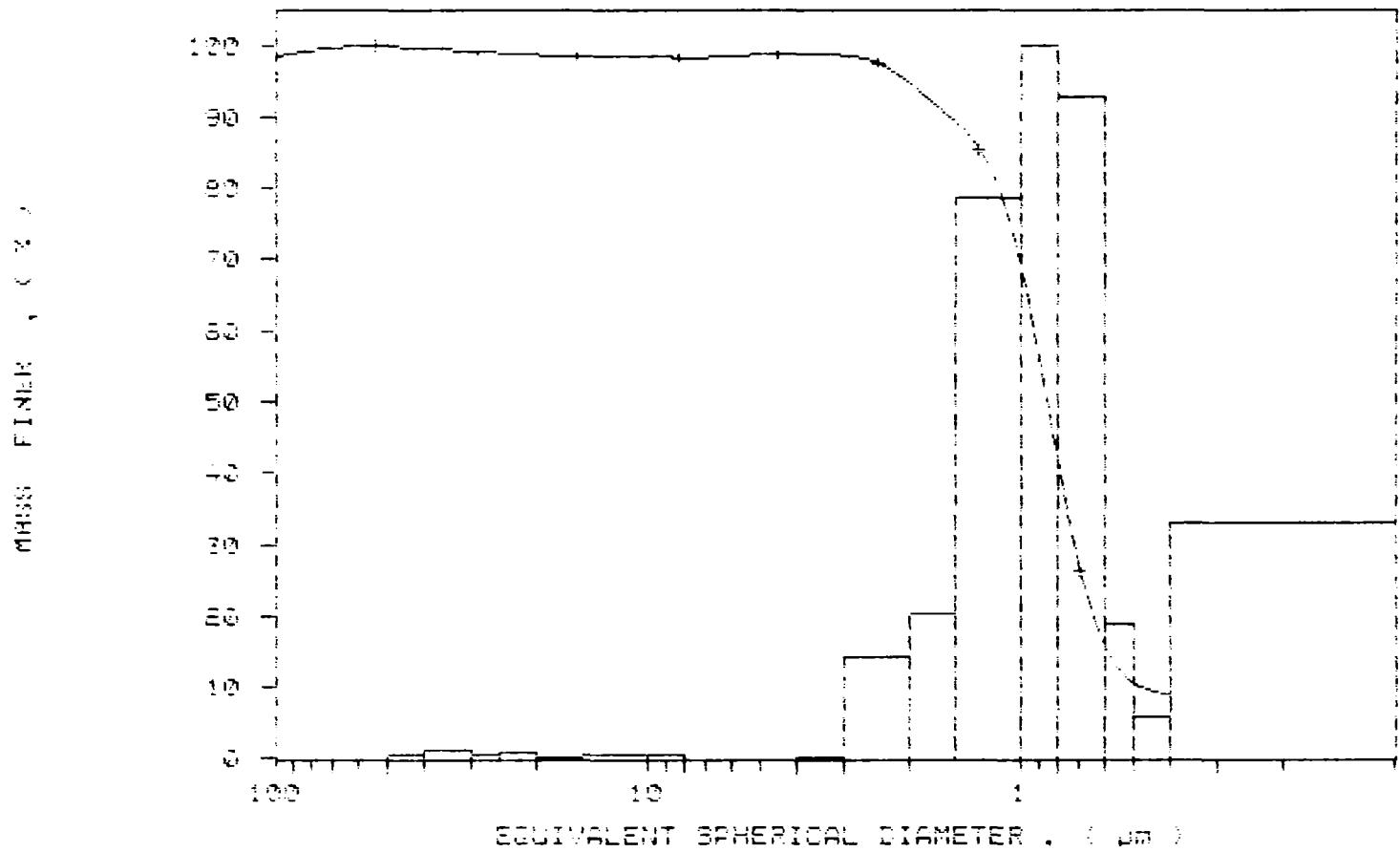
L. Malmstrom

000100

SAMPLE DIRECTORY/NUMBER: DATA7 /320
SAMPLE ID: Hole PJ 88-2 # 17252
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 86 kilocounts/sec

UNIT NUMBER: 1
START 13:08:31 11/08/94
REPRT 13:20:43 11/08/94
TOT RUN TIME 0:07:40
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

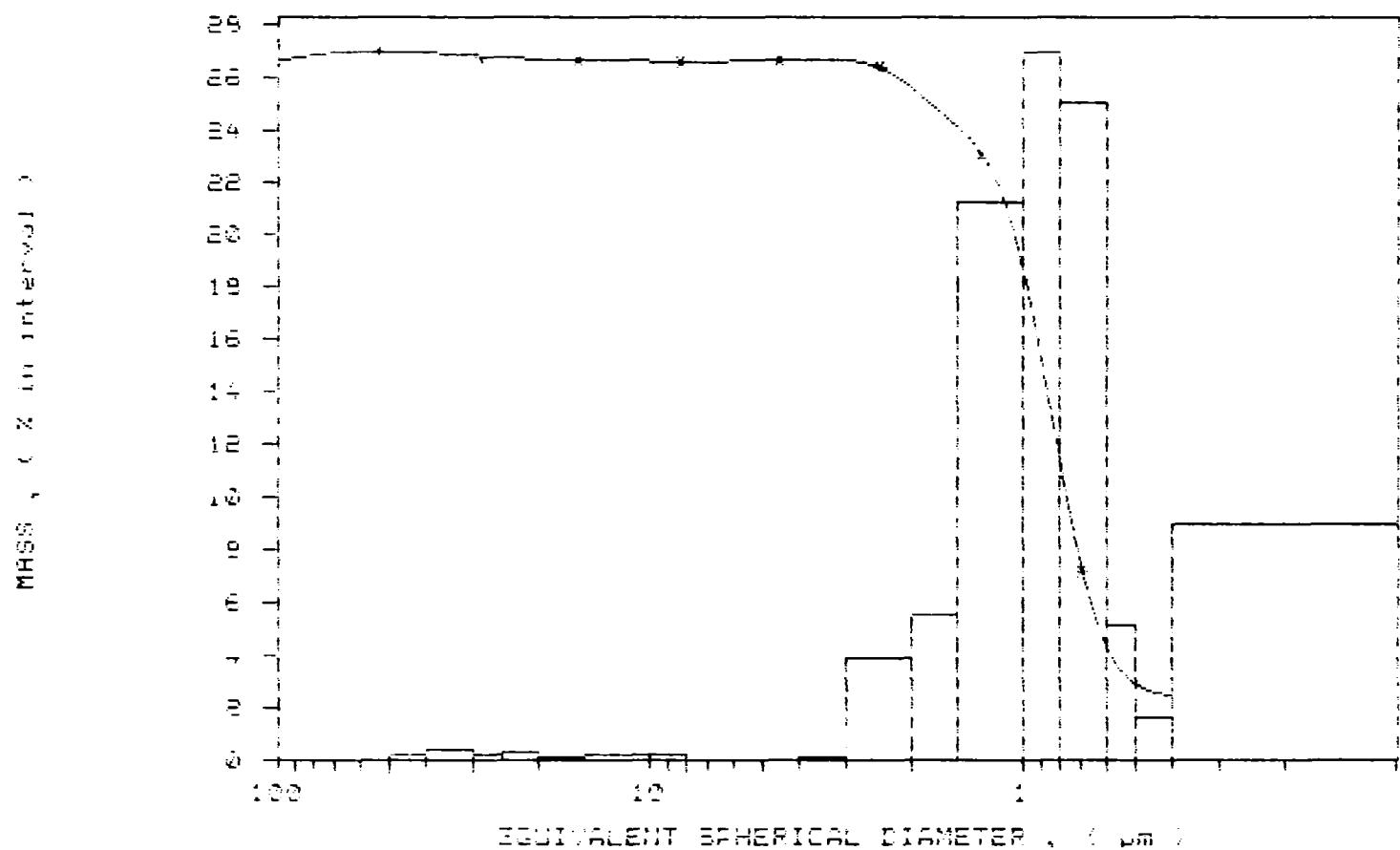
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /320
SAMPLE ID: Hole PJ 88-2 # 17252
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 86 kilocounts/sec

UNIT NUMBER: 1
START 13:08:31 11/08/94
REPRT 13:20:43 11/08/94
TOT RUN TIME 0:07:40
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /321
 SAMPLE ID: Hole PJ 88-2 # 17253
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 93 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 15:15:45 11/08/94
 REPRT 15:23:36 11/08/94
 TOT RUN TIME 0:07:31
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7636 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.02 μm MODAL DIAMETER: 4.46 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	102.2	-2.2
80.00	101.5	0.7
60.00	100.7	0.8
50.00	100.3	0.4
40.00	99.7	0.6
30.00	98.8	0.9
25.00	98.0	0.8
20.00	96.1	1.9
15.00	92.3	3.8
10.00	86.0	6.3
8.00	81.4	4.6
6.00	75.3	6.1
5.00	71.0	4.3
4.00	65.4	5.6
3.00	58.7	6.7
2.00	49.7	9.0
1.50	42.6	7.1
1.00	33.8	8.8
0.80	30.0	3.8
0.60	25.7	4.3
0.50	23.3	2.4
0.40	20.6	2.8

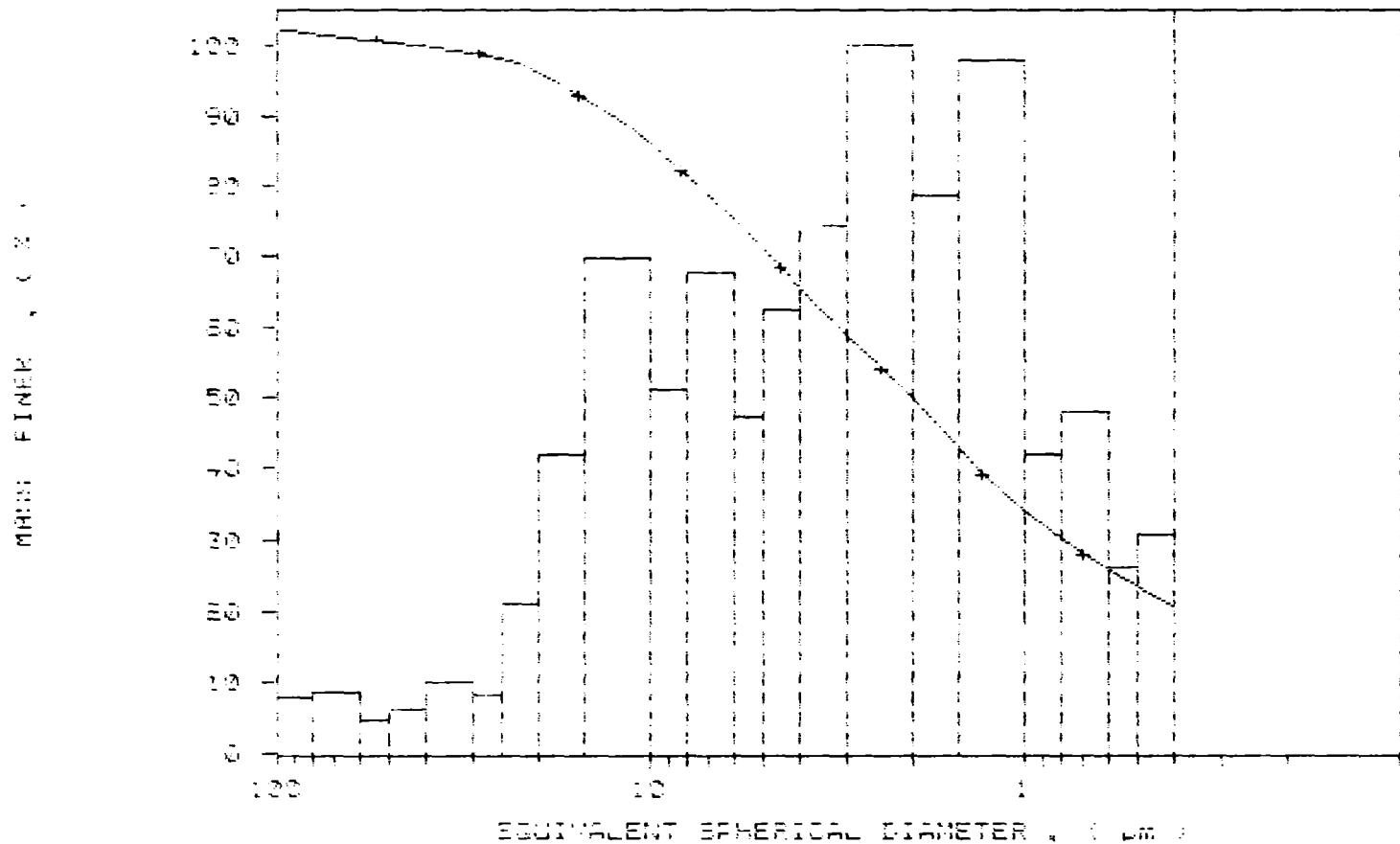
K. Malmstrom

000100

SAMPLE DIRECTORY/NUMBER: DATA7 /321
 SAMPLE ID: Hole PJ 88-2 # 17253
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 93 kilocounts/sec

UNIT NUMBER: 1
 START 15:15:45 11/08/94
 REPRT 15:23:36 11/08/94
 TOT RUN TIME 0:07:31
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7636 cp
 RUN TYPE: High Speed

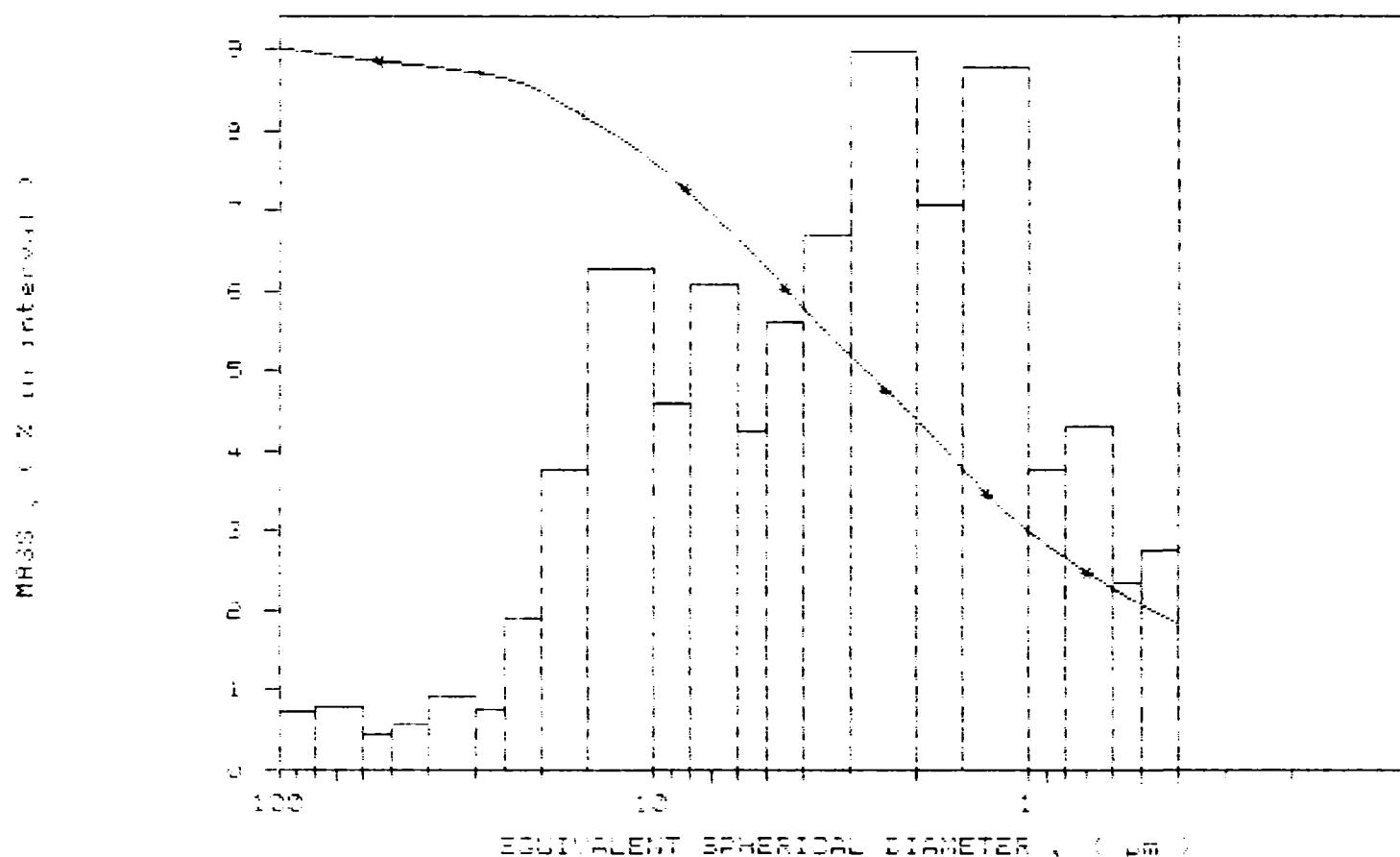
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /321
 SAMPLE ID: Hole PJ 88-2 # 17253
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 93 kilocounts/sec

UNIT NUMBER: 1
 START 15:15:45 11/08/94
 REPRT 15:23:36 11/08/94
 TOT RUN TIME 0:07:31
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7636 cp
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
 • CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /322
 SAMPLE ID: Hole PJ 88-2 # 17254
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 102 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 15:35:04 11/08/94
 REPRT 15:47:08 11/08/94
 TOT RUN TIME 0:07:29
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7635 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.53 μm MODAL DIAMETER: 2.10 μm

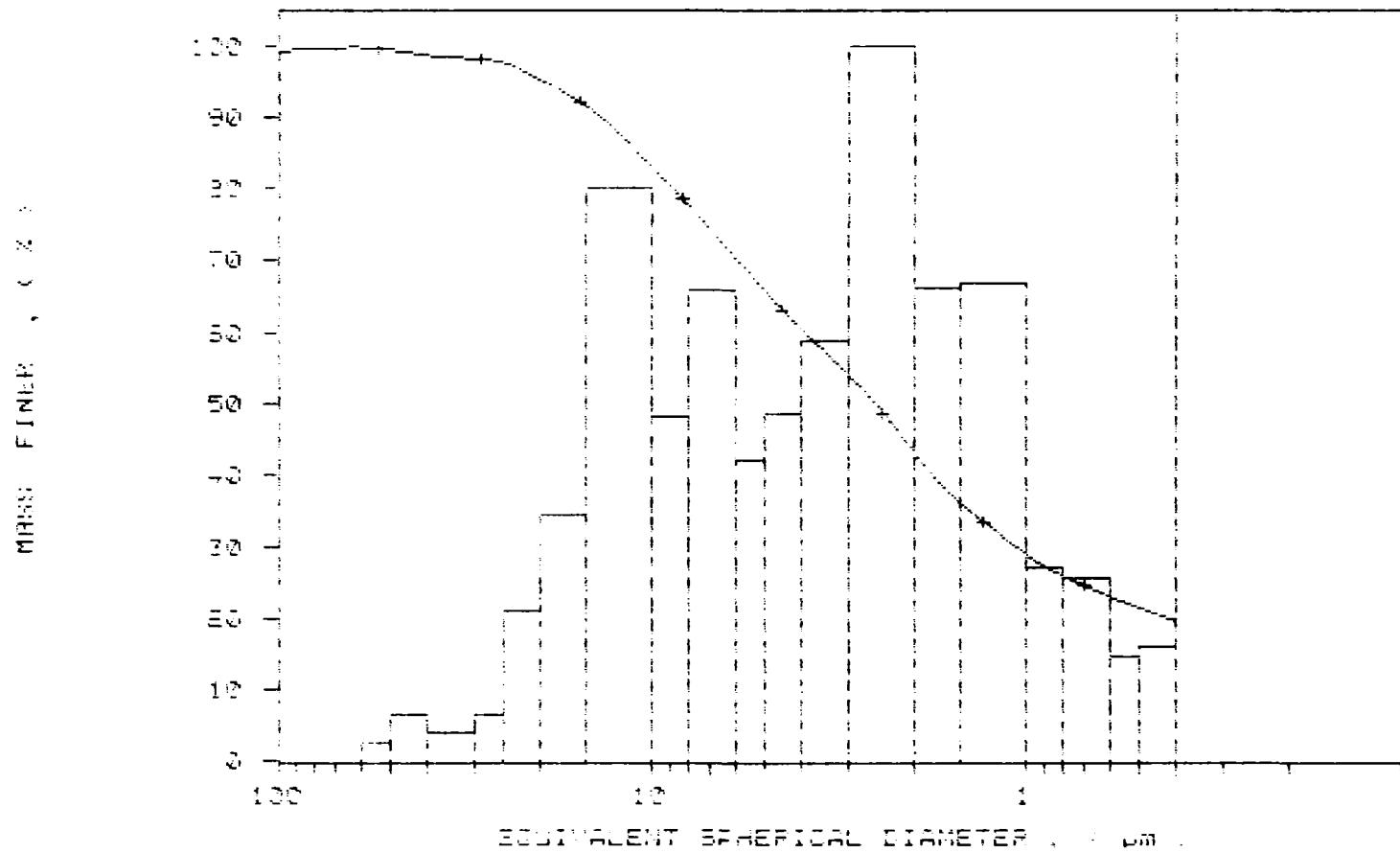
DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.2	0.8
80.00	99.6	-0.3
60.00	99.7	-0.1
50.00	99.4	0.3
40.00	98.7	0.7
30.00	98.2	0.5
25.00	97.5	0.7
20.00	95.2	2.3
15.00	91.4	3.8
10.00	82.7	8.7
8.00	77.5	5.2
6.00	70.3	7.2
5.00	65.7	4.6
4.00	60.5	5.3
3.00	54.1	6.4
2.00	43.2	10.8
1.50	36.0	7.2
1.00	28.8	7.3
0.80	25.8	2.9
0.60	23.0	2.8
0.50	21.4	1.6
0.40	19.7	1.8

000100

SAMPLE DIRECTORY/NUMBER: DATA7 /322
 SAMPLE ID: Hole PJ 88-2 # 17254
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 102 kilocounts/sec

UNIT NUMBER: 1
 START 15:35:04 11/08/94
 REPRT 15:47:08 11/08/94
 TOT RUN TIME 0:07:29
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7635 cp
 RUN TYPE: High Speed

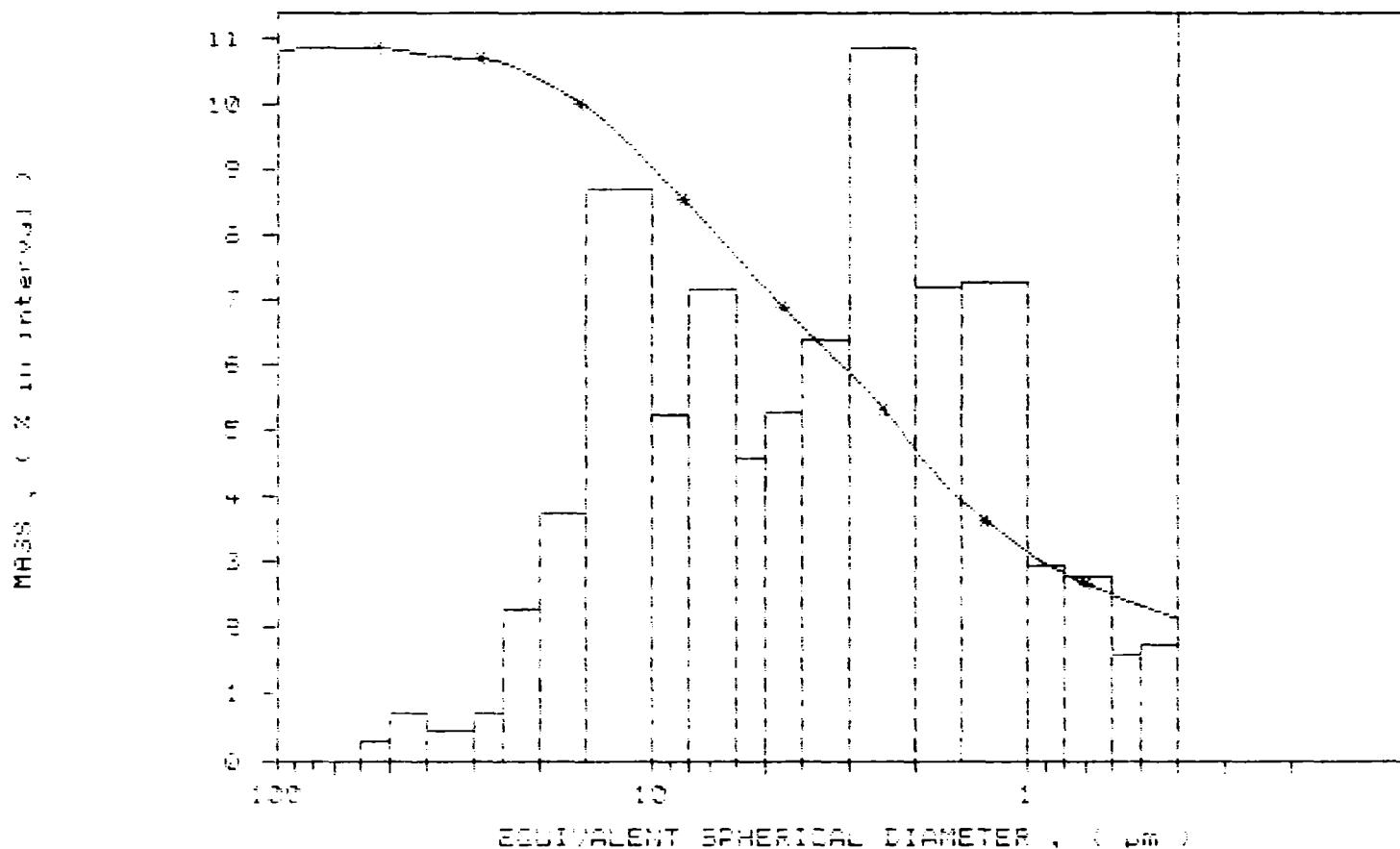
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /322
 SAMPLE ID: Hole PJ 88-2 # 17254
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 102 kilocounts/sec

UNIT NUMBER: 1
 START 15:35:04 11/08/94
 REPRT 15:47:08 11/08/94
 TOT RUN TIME 0:07:29
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7635 cp
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
 + CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /323
 SAMPLE ID: Hole PJ 88-2 # 17255
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 94 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 15:54:51 11/08/94
 REPRT 16:07:03 11/08/94
 TOT RUN TIME 0:07:39
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.20 μm MODAL DIAMETER: 13.42 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.2	1.8
80.00	98.7	-0.5
60.00	98.8	-0.1
50.00	98.6	0.2
40.00	98.3	0.3
30.00	96.3	2.0
25.00	93.9	2.4
20.00	90.1	3.7
15.00	84.0	6.1
10.00	74.7	9.3
8.00	69.9	4.8
6.00	63.5	6.4
5.00	59.5	4.0
4.00	54.6	4.9
3.00	48.7	5.9
2.00	41.1	7.6
1.50	36.2	5.0
1.00	29.0	7.1
0.80	25.7	3.4
0.60	22.4	3.3
0.50	20.7	1.7
0.40	18.5	2.1

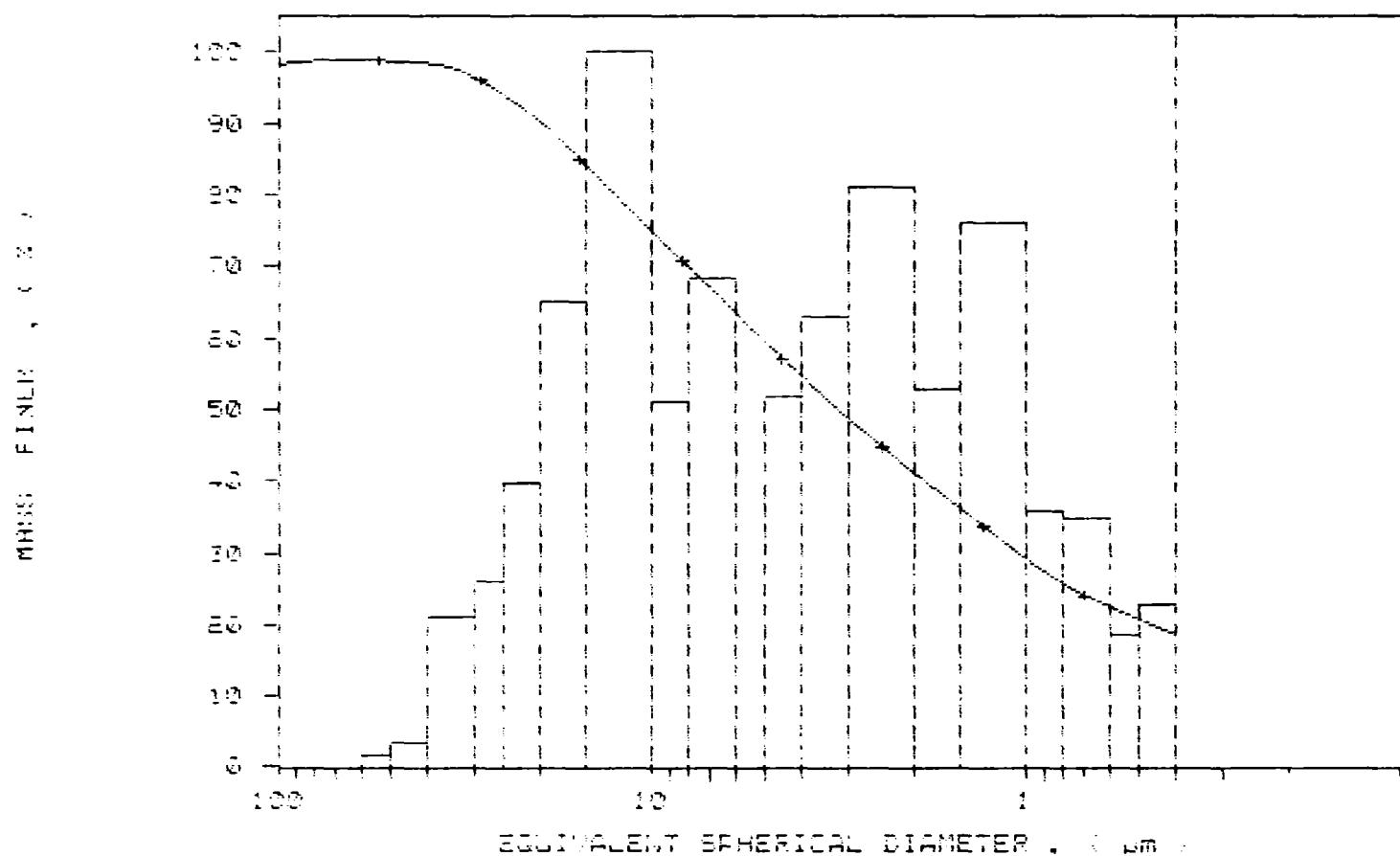


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SAMPLE DIRECTORY/NUMBER: DATA7 /323
 SAMPLE ID: Hole PJ 88-2 # 17255
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 94 kilocounts/sec

UNIT NUMBER: 1
 START 15:54:51 11/08/94
 REPRT 16:07:03 11/08/94
 TOT RUN TIME 0:07:39
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cp
 RUN TYPE: High Speed

+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /324
 SAMPLE ID: Hole PJ 88-2 # 17256
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 12:05:06 11/09/94
 REPRT 12:17:05 11/09/94
 TOT RUN TIME 0:07:28
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cP
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.93 μm MODAL DIAMETER: 2.08 μm

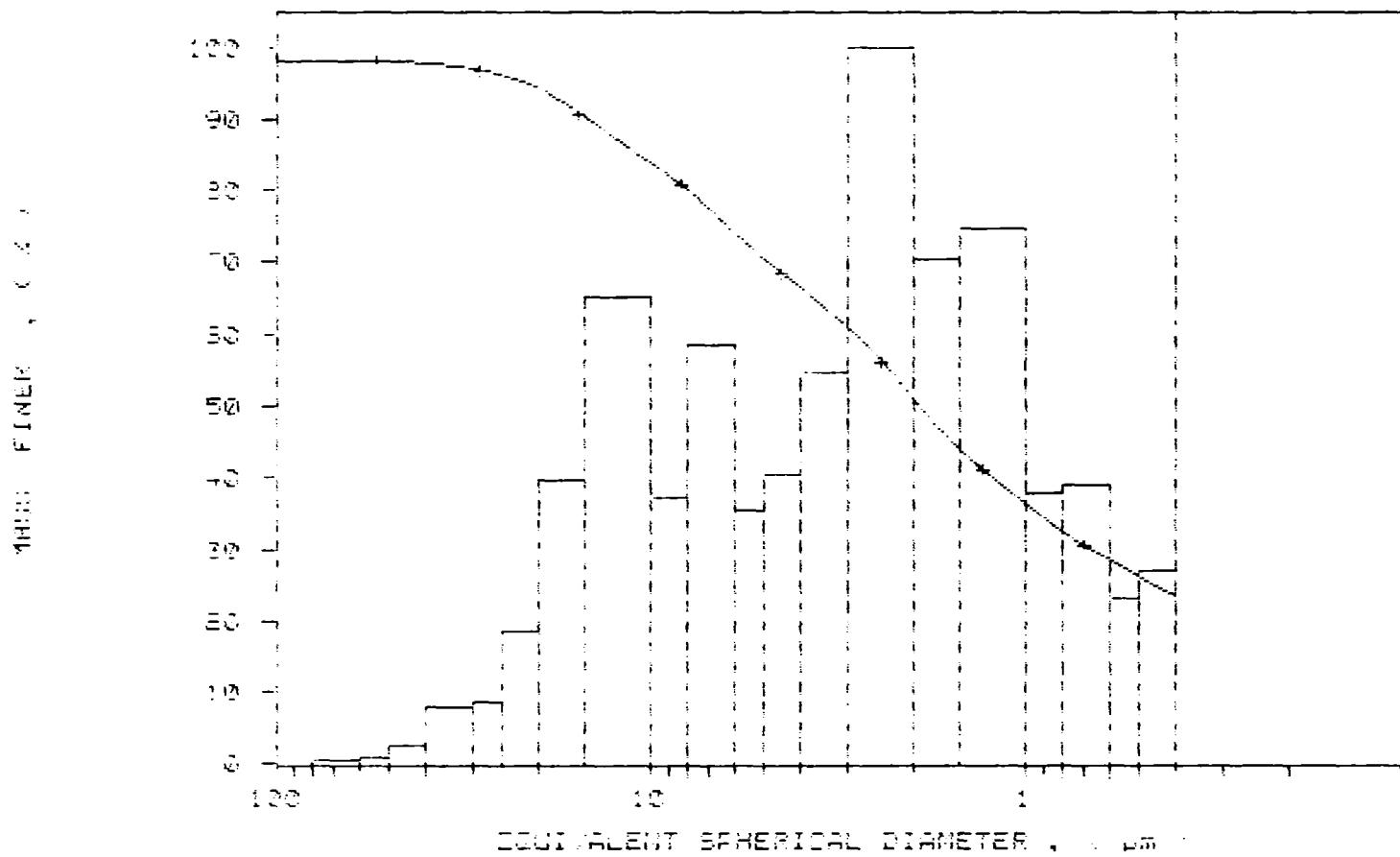
DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.2	1.7
80.00	98.3	-0.0
60.00	98.2	0.1
50.00	98.1	0.1
40.00	97.8	0.3
30.00	97.0	0.8
25.00	96.1	0.9
20.00	94.3	1.9
15.00	90.3	4.0
10.00	83.7	6.5
8.00	80.0	3.8
6.00	74.1	5.9
5.00	70.5	3.6
4.00	66.4	4.1
3.00	60.9	5.5
2.00	50.9	10.0
1.50	43.8	7.1
1.00	36.3	7.5
0.80	32.5	3.8
0.60	28.5	3.9
0.50	26.2	2.4
0.40	23.5	2.7

000100

SAMPLE DIRECTORY/NUMBER: DATA7 /324
 SAMPLE ID: Hole PJ 88-2 # 17256
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

UNIT NUMBER: 1
 START 12:05:06 11/09/94
 REPRT 12:17:05 11/09/94
 TOT RUN TIME 0:07:28
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cp
 RUN TYPE: High Speed

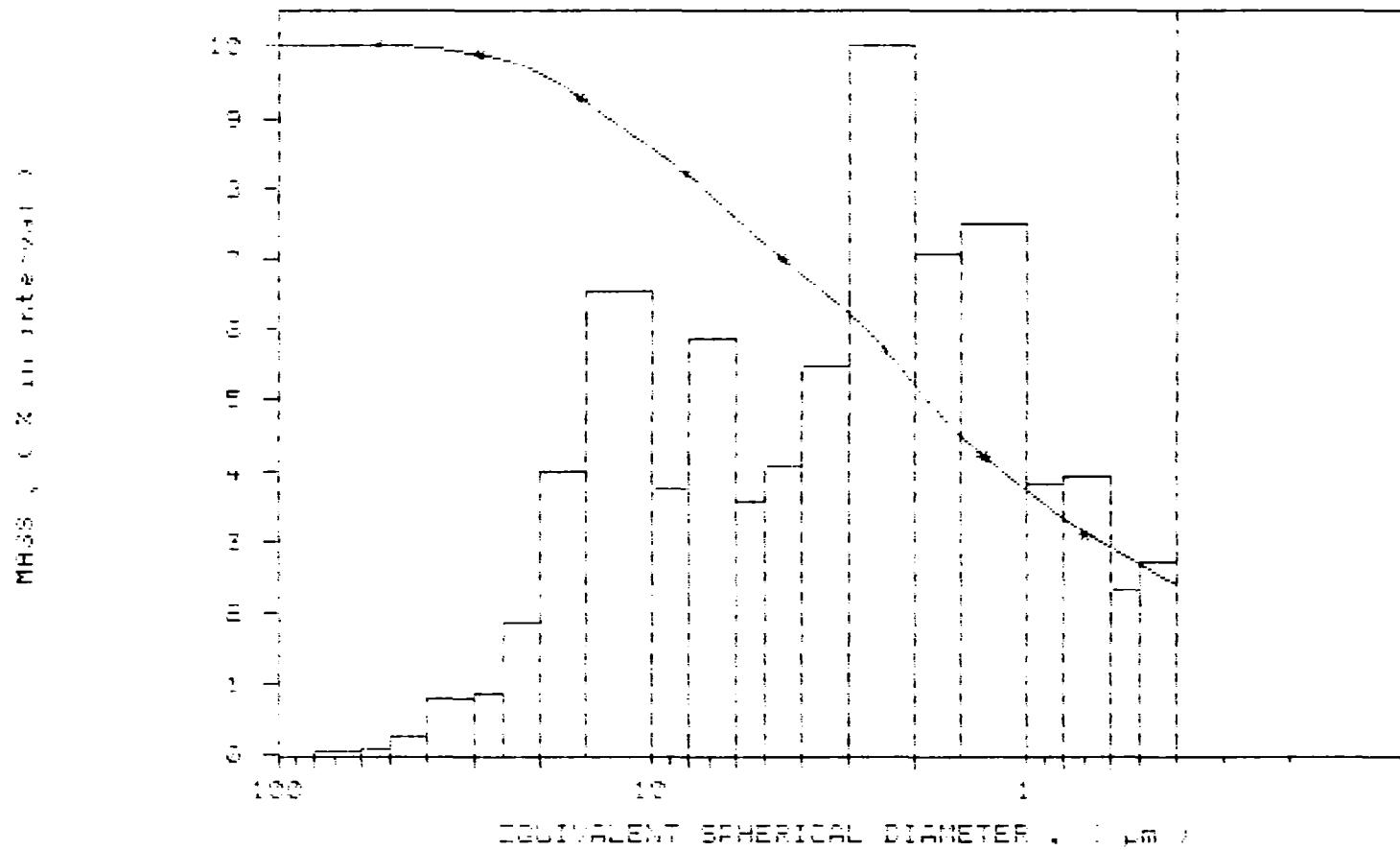
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /324
 SAMPLE ID: Hole PJ 88-2 # 17256
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

UNIT NUMBER: 1
 START 12:05:06 11/09/94
 REPRT 12:17:05 11/09/94
 TOT RUN TIME 0:07:28
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cp
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
 + CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /325
 SAMPLE ID: Hole PJ 88-2 # 17257
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 89 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 12:39:17 11/09/94
 REPRT 12:51:33 11/09/94
 TOT RUN TIME 0:07:43
 SAM DENS: 2.6000 g/cc
 I IQ DENS: 0.9950 g/cc
 I IQ VISC: 0.7631 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.46 μm MODAL DIAMETER: 7.01 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.5	0.5
80.00	99.3	0.2
60.00	99.1	0.2
50.00	99.0	0.1
40.00	98.8	0.2
30.00	97.9	0.9
25.00	96.6	1.3
20.00	93.8	2.7
15.00	89.0	4.8
10.00	81.1	7.9
8.00	76.3	4.8
6.00	69.7	6.6
5.00	65.5	4.2
4.00	60.5	5.1
3.00	54.1	6.4
2.00	46.0	8.0
1.50	40.7	5.4
1.00	33.3	7.4
0.80	29.2	4.1
0.60	24.5	4.6
0.50	22.1	2.4
0.40	18.9	3.2

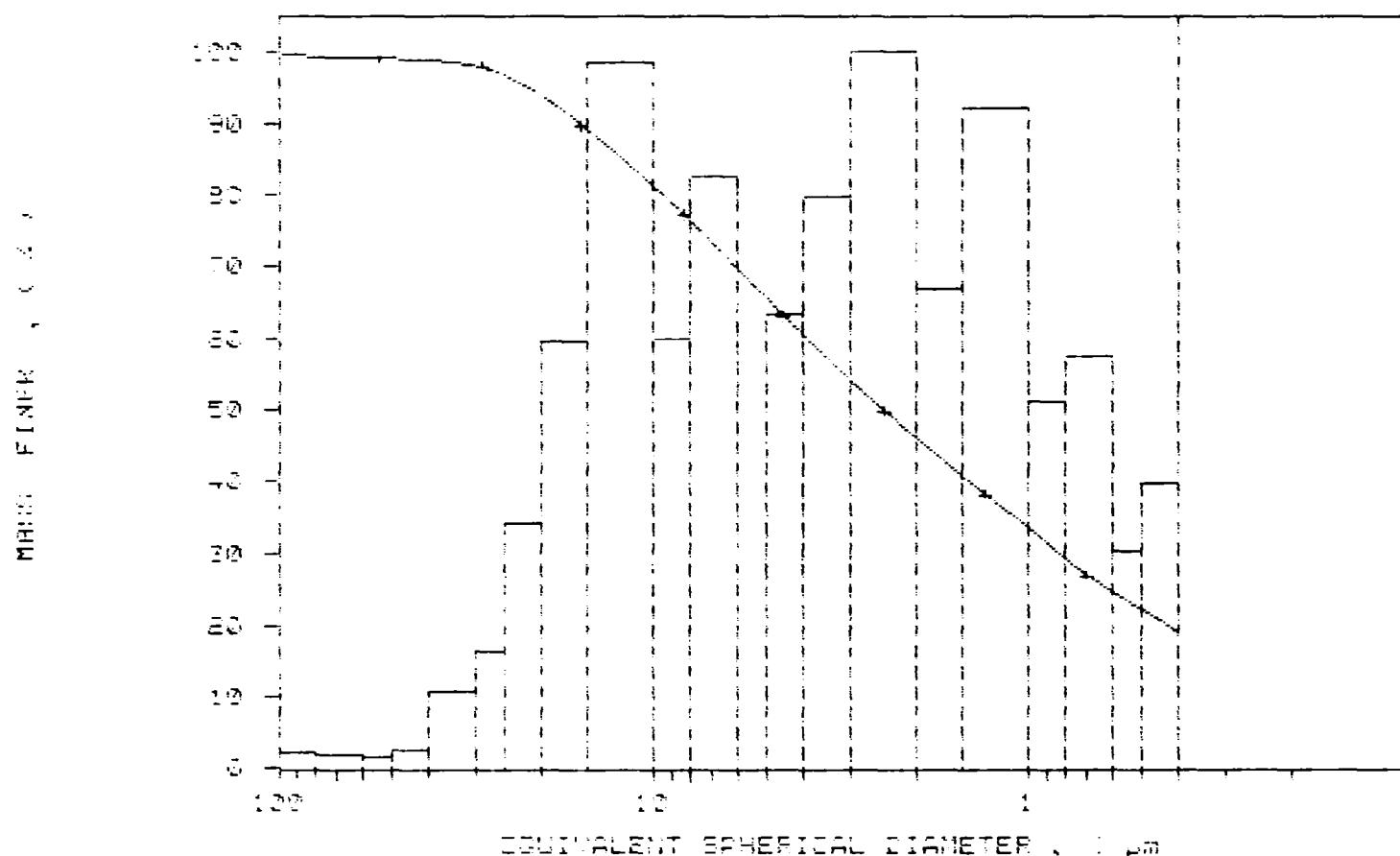


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SAMPLE DIRECTORY/NUMBER: DATA7 /325
 SAMPLE ID: Hole PJ 88-2 # 17257
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 89 kilocounts/sec

UNIT NUMBER: 1
 START 12:39:17 11/09/94
 REPRT 12:51:33 11/09/94
 TOT RUN TIME 0:07:43
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7631 cp
 RUN TYPE: High Speed

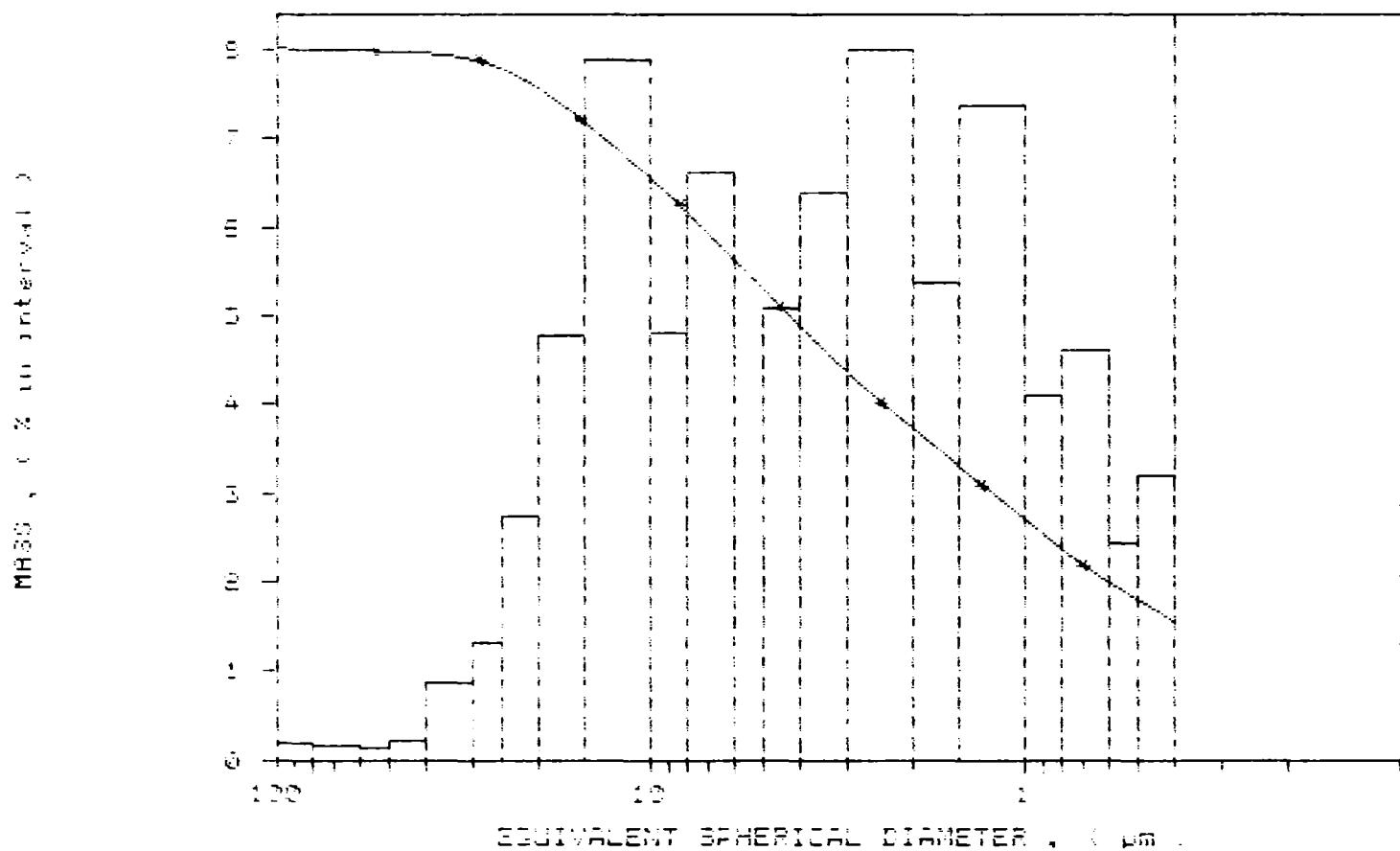
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /325
 SAMPLE ID: Hole PJ 88-2 # 17257
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 89 kilocounts/sec

UNIT NUMBER: 1
 START 12:39:17 11/09/94
 REPRT 12:51:33 11/09/94
 TOT RUN TIME 0:07:43
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7631 cp
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
 * CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /326
 SAMPLE ID: Hole PJ 88-2 # 17258
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 84 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 13:01:50 11/09/94
 REPRT 13:14:04 11/09/94
 TOT RUN TIME 0:07:41
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7631 cP
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.98 μm MODAL DIAMETER: 4.86 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	100.0	0.0
80.00	99.5	0.5
60.00	99.4	0.1
50.00	99.3	0.1
40.00	98.8	0.5
30.00	97.5	1.3
25.00	96.4	1.0
20.00	94.7	1.7
15.00	90.9	3.9
10.00	83.0	7.9
8.00	78.6	4.4
6.00	72.7	5.9
5.00	68.5	4.2
4.00	63.4	5.1
3.00	57.9	5.5
2.00	50.2	7.6
1.50	45.1	5.1
1.00	39.5	5.6
0.80	36.7	2.8
0.60	32.7	4.0
0.50	29.7	3.0
0.40	25.9	3.8

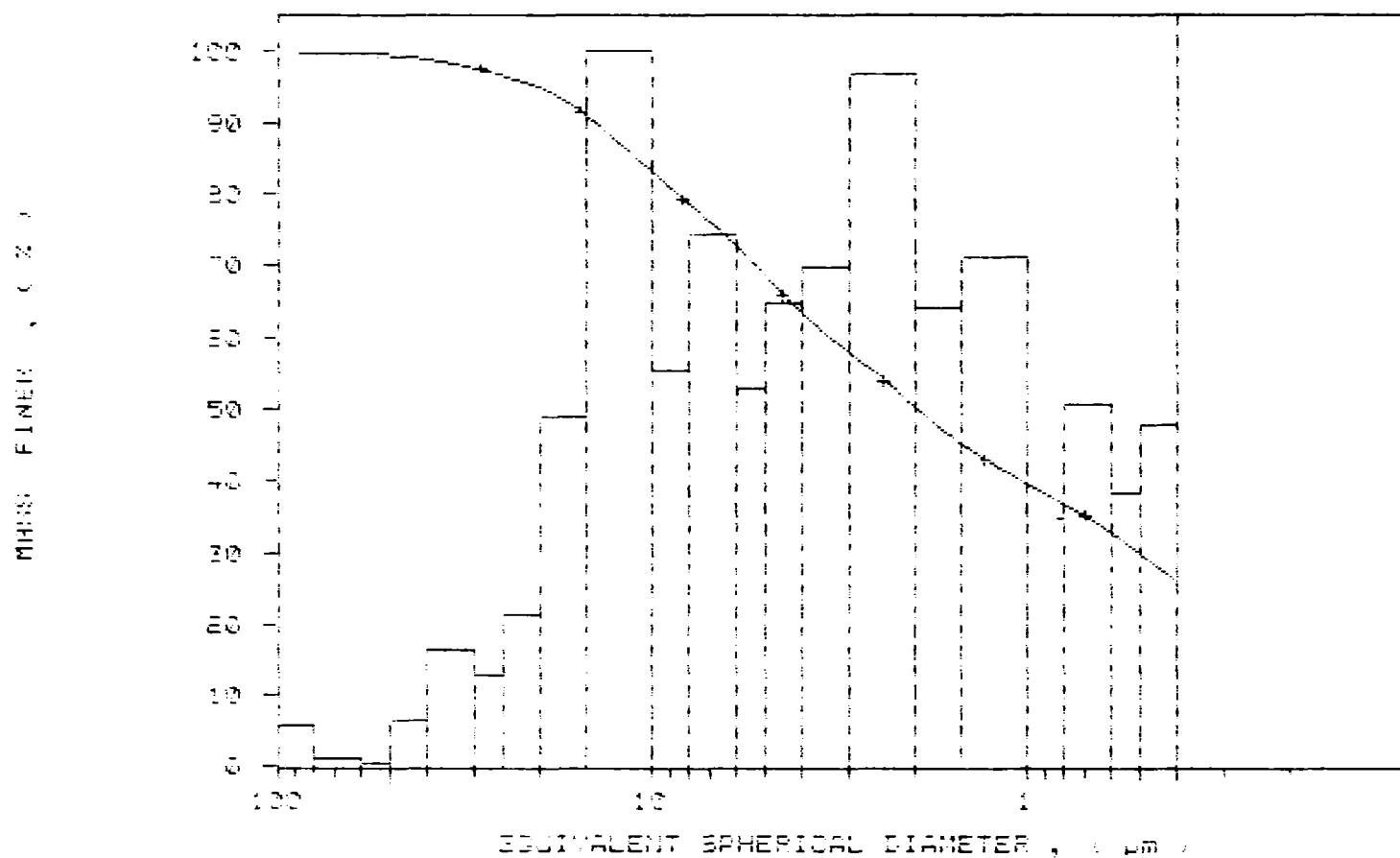
J. Malmstrom

000100

SAMPLE DIRECTORY/NUMBER: DATA7 /326
 SAMPLE ID: Hole PJ 88-2 # 17258
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 84 kilocounts/sec

UNIT NUMBER: 1
 START 13:01:50 11/09/94
 REPRT 13:14:04 11/09/94
 TOT RUN TIME 0:07:41
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7631 cp
 RUN TYPE: High Speed

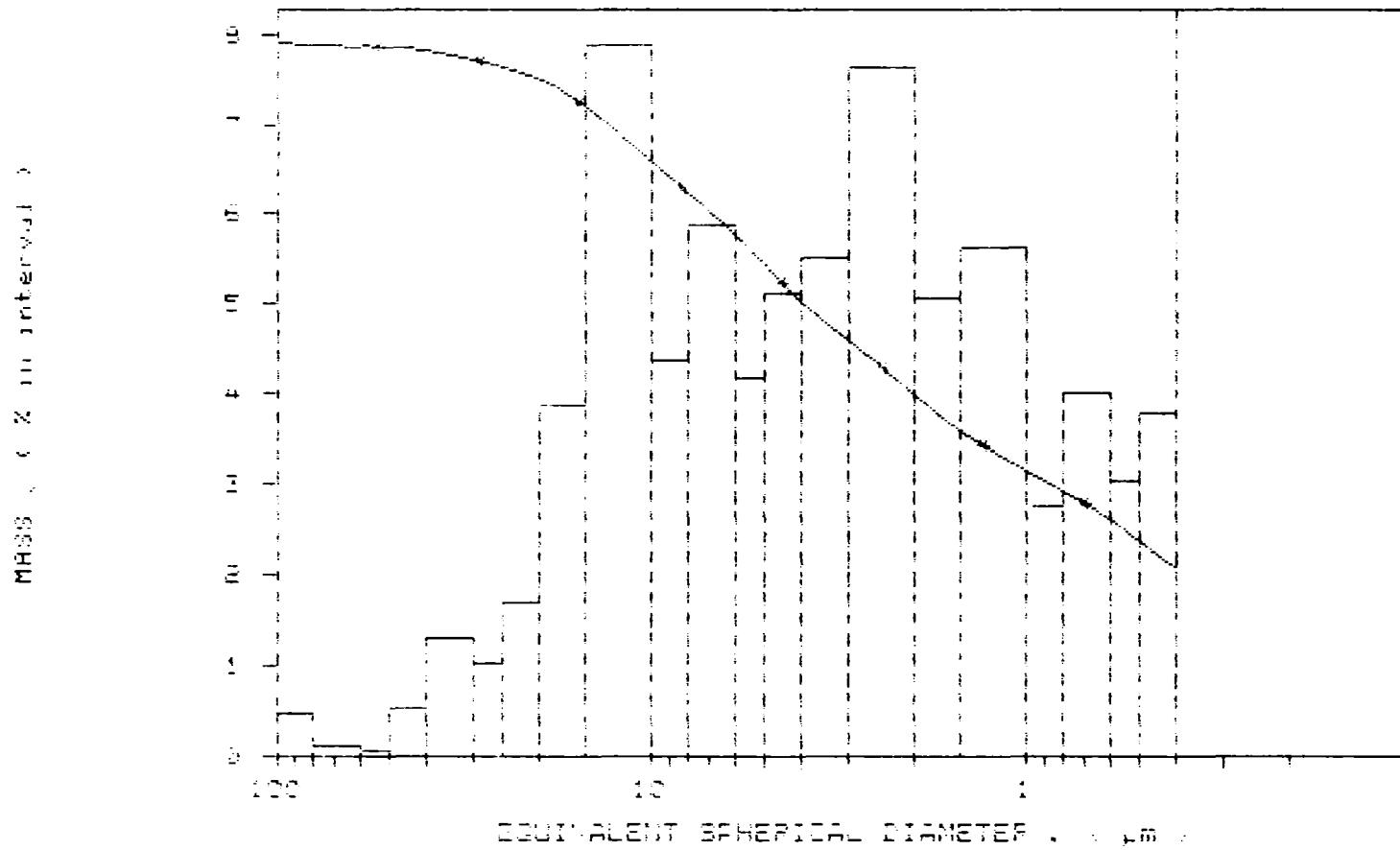
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /326
 SAMPLE ID: Hole PJ 88-2 # 17258
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 84 kilocounts/sec

UNIT NUMBER: 1
 START 13:01:50 11/09/94
 REPRT 13:14:04 11/09/94
 TOT RUN TIME 0:07:41
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7631 cp
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
 + CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPIE DIRECTORY/NUMBER: DATA7 /327
 SAMPIE ID: Hole PJ 88-2 # 17259
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPIE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 87 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 14:12:54 11/09/94
 REPRT 14:20:53 11/09/94
 TOT RUN TIME 0:07:36
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.52 μm MODAL DIAMETER: 6.33 μm

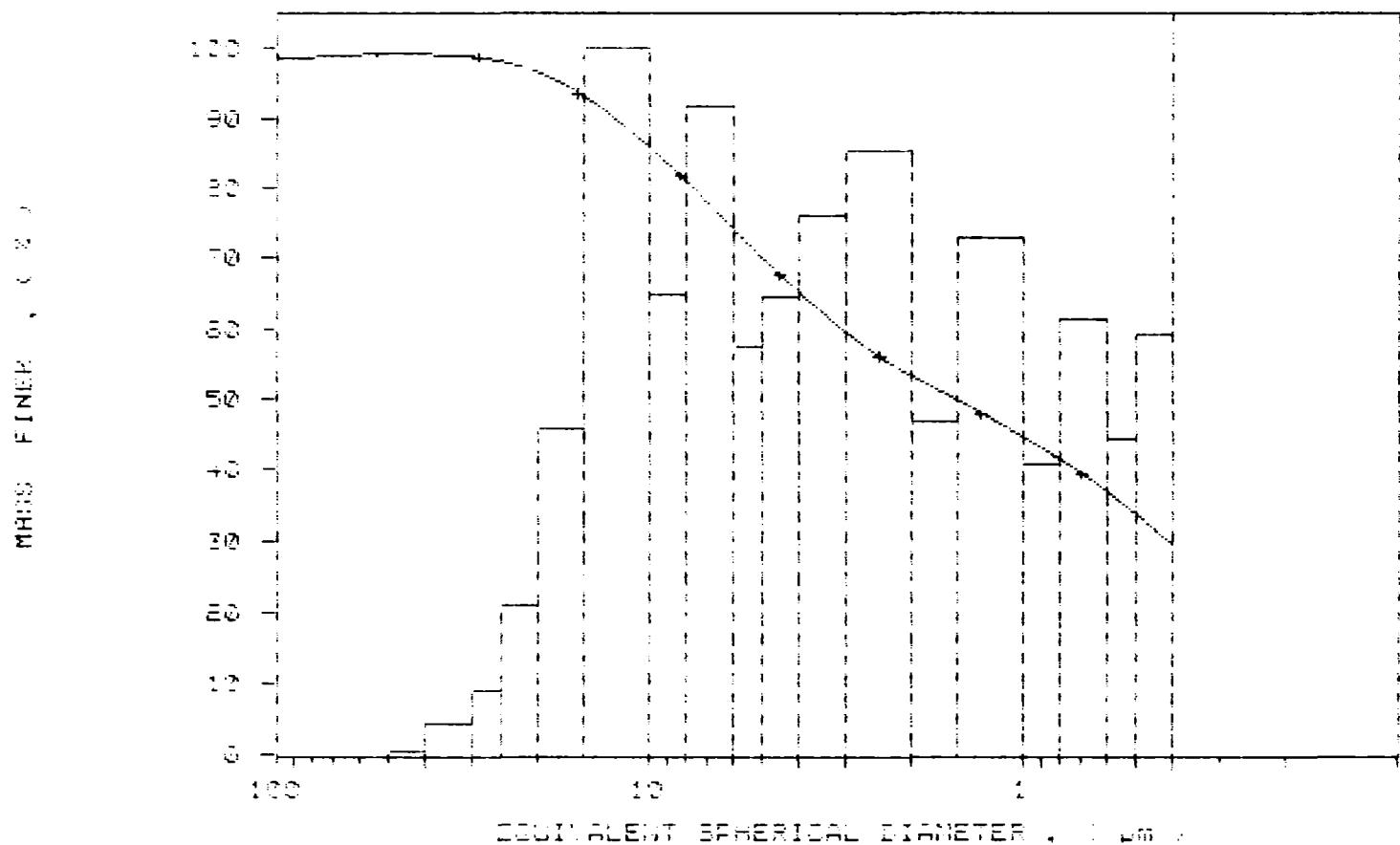
DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.3	1.7
80.00	98.6	-0.4
60.00	99.0	-0.4
50.00	99.1	-0.1
40.00	99.0	0.0
30.00	98.7	0.3
25.00	98.0	0.7
20.00	96.4	1.6
15.00	93.0	3.4
10.00	85.7	7.3
8.00	80.9	4.8
6.00	74.1	6.8
5.00	69.9	4.2
4.00	65.2	4.8
3.00	59.6	5.6
2.00	53.3	6.3
1.50	49.8	3.4
1.00	44.4	5.4
0.80	41.4	3.0
0.60	36.9	4.5
0.50	33.6	3.3
0.40	29.3	4.4

000100

SAMPLE DIRECTORY/NUMBER: DATA7 /32
SAMPLE ID: Hole PJ 88-2 # 17259
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clav
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 87 kilo

UNIT NUMBER: 1
START 14:12:54 11/09/94
REPRT 14:20:53 11/09/94
TOT RUN TIME 0:07:36
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

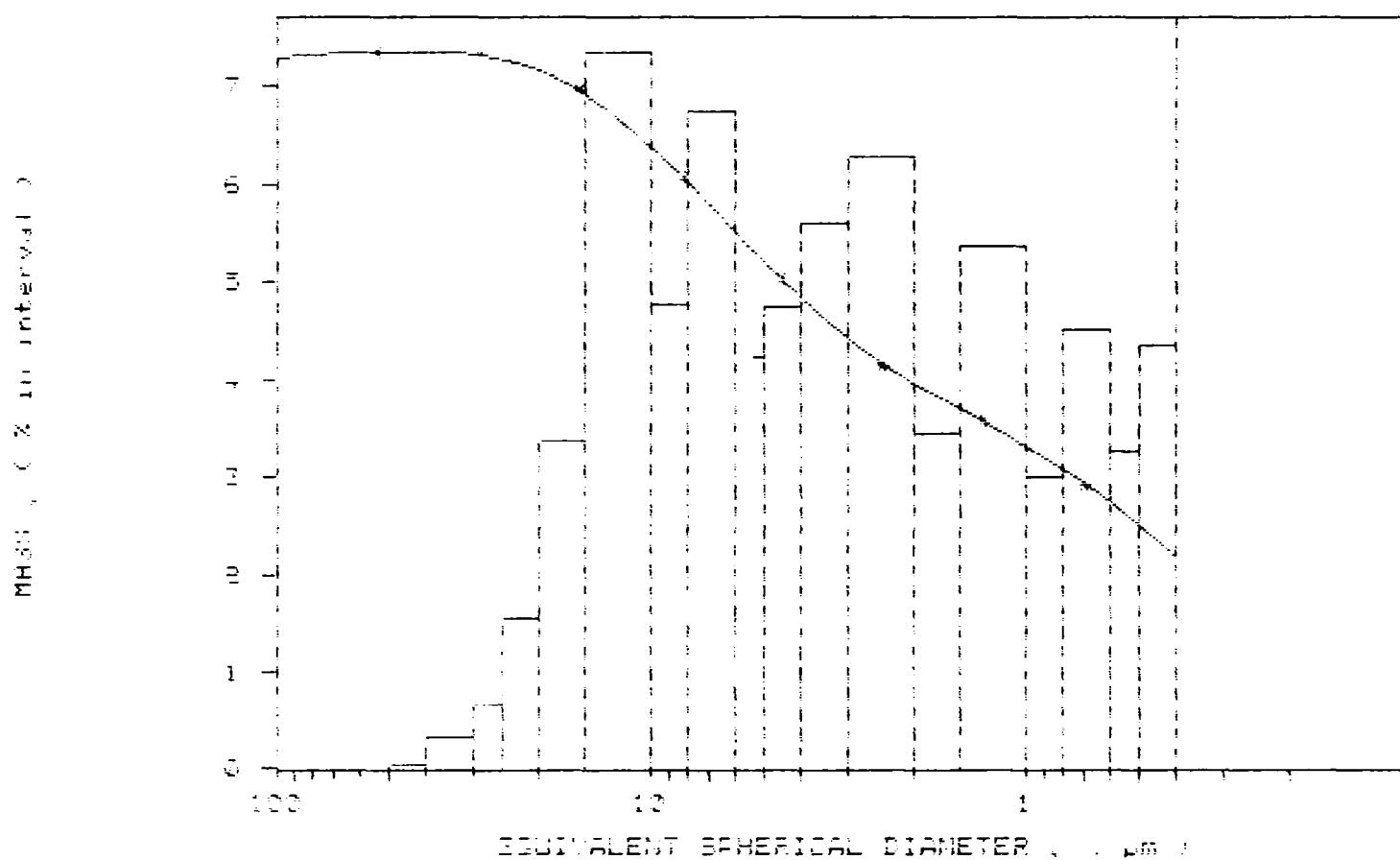
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /327
 SAMPLE ID: Hole PJ 88-2 # 17259
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 87 kilocounts/sec

UNIT NUMBER: 1
 START 14:12:54 11/09/94
 REPRT 14:20:53 11/09/94
 TOT RUN TIME 0:07:36
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cp
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
 * CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /328
 SAMPLE ID: Hole PJ 88-2 # 17260
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 91 kilocounts/sec

UNIT NUMBER: 1
 START 14:59:10 11/09/94
 REPRT 15:11:18 11/09/94
 TOT RUN TIME 0:07:34
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cp
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.92 μm MODAL DIAMETER: 6.13 μm

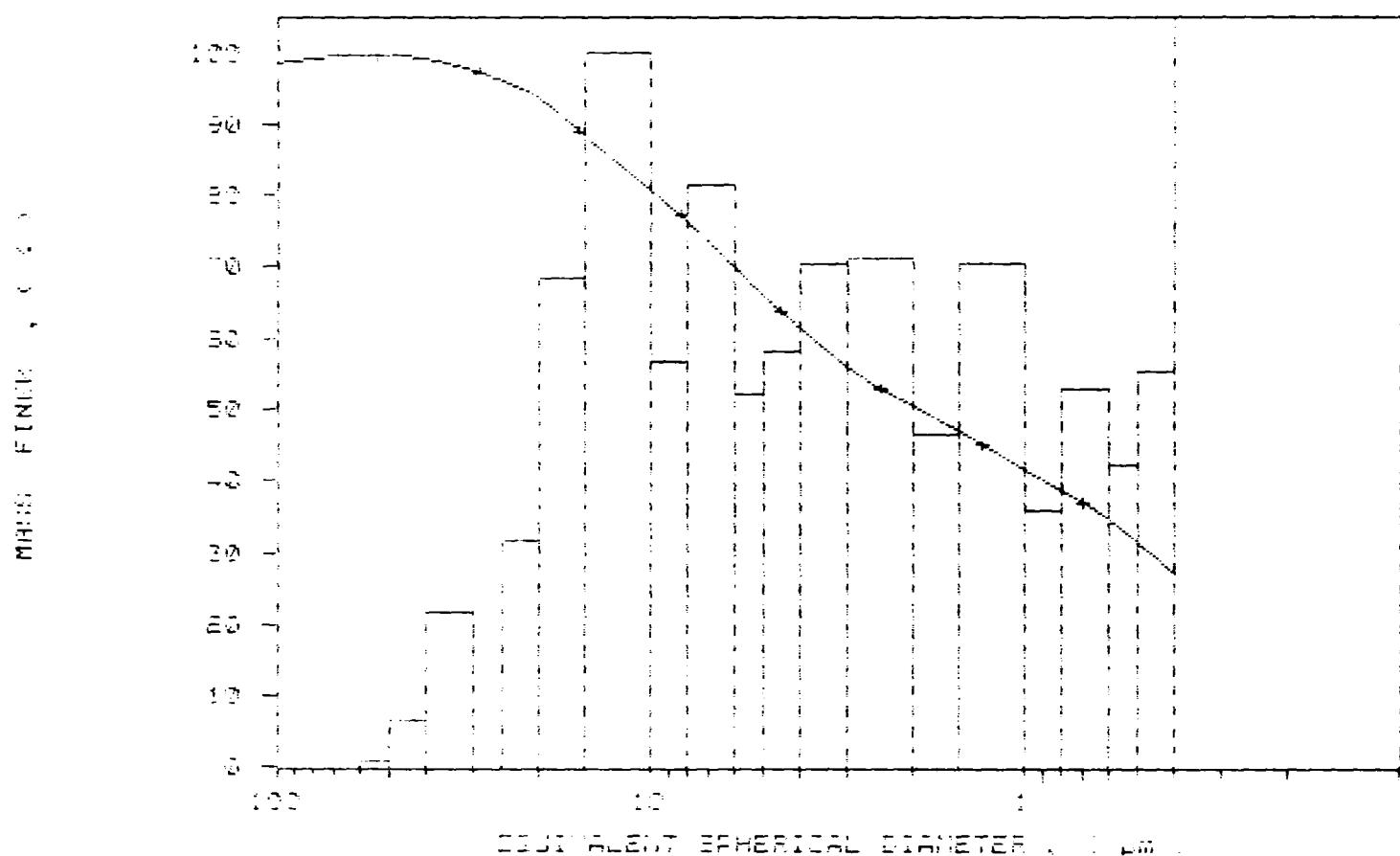
DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.5	1.5
80.00	99.2	-0.7
60.00	99.6	-0.5
50.00	99.6	0.1
40.00	99.1	0.5
30.00	97.4	1.7
25.00	96.0	1.4
20.00	93.5	2.5
15.00	88.3	5.3
10.00	80.6	7.7
8.00	76.2	4.4
6.00	69.9	6.3
5.00	65.9	4.0
4.00	61.4	4.5
3.00	56.0	5.4
2.00	50.5	5.5
1.50	46.9	3.6
1.00	41.4	5.5
0.80	38.6	2.8
0.60	34.6	4.1
0.50	31.3	3.3
0.40	27.0	4.3

000100

SAMPLE DIRECTORY/NUMBER: DATA7 /328
 SAMPLE ID: Hole PJ 88-2 # 17260
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 91 kilocounts/sec

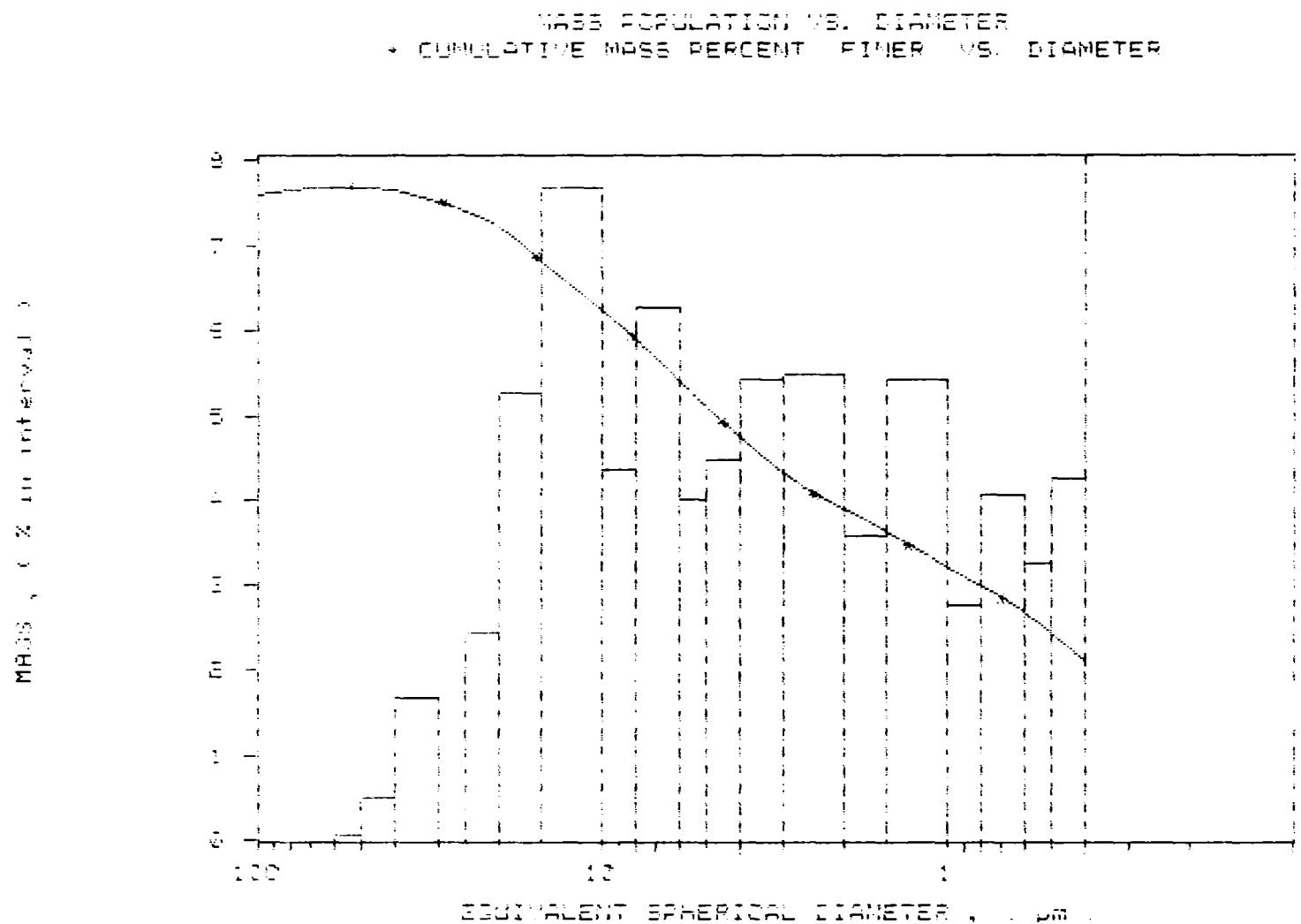
UNIT NUMBER: 1
 START 14:59:10 11/09/94
 REPRT 15:11:18 11/09/94
 TOT RUN TIME 0:07:34
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cP
 RUN TYPE: High Speed

* CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /328
 SAMPLE ID: Hole PJ 88-2 # 17260
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 91 kilocounts/sec

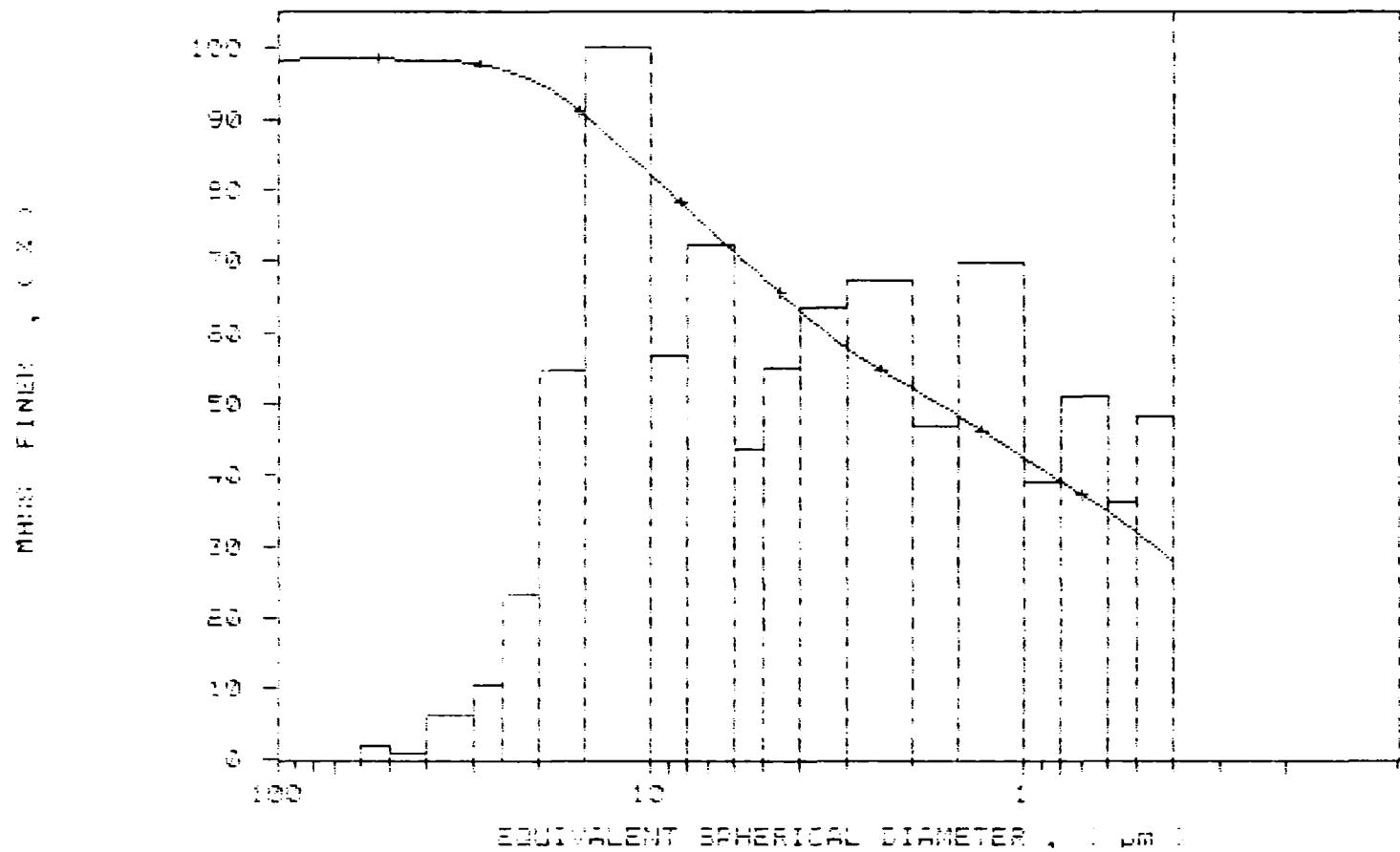
UNIT NUMBER: 1
 START 14:59:10 11/09/94
 REPRT 15:11:18 11/09/94
 TOT RUN TIME 0:07:34
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cP
 RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /329
 SAMPLE ID: Hole PJ 88-2 # 17261
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 90 kilocounts/sec

UNIT NUMBER: 1
 START 15:19:36 11/09/94
 REPRT 15:31:49 11/09/94
 TOT RUN TIME 0:07:40
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7633 cp
 RUN TYPE: High Speed

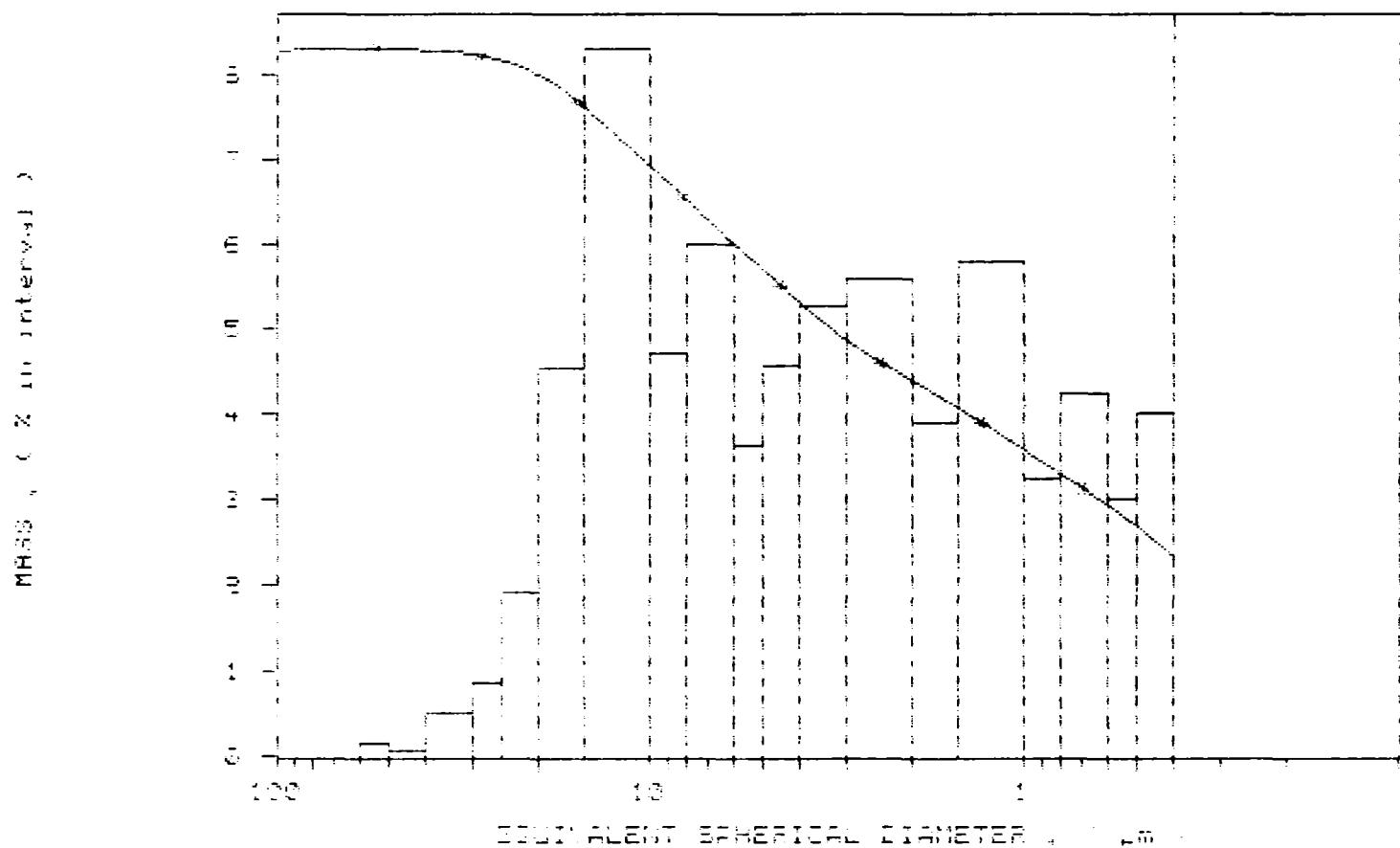
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /329
SAMPLE ID: Hole PJ 88-2 # 17261
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 90 kilocounts/

UNIT NUMBER: 1
START 15:19:36 11/09/94
REPRT 15:31:49 11/09/94
TOT RUN TIME 0:07:40
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

**MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINEER VS. DIAMETER**



SAMPLE DIRECTORY/NUMBER: DATA7 /330
 SAMPLE ID: Hole PJ 88-2 # 17262
 SUBMITTER: MRC inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 94 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 15:39:15 11/09/94
 REPRT 15:51:30 11/09/94
 TOT RUN TIME 0:07:36
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7634 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 7.28 μm MODAL DIAMETER: 5.85 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.6	0.4
80.00	99.7	-0.2
60.00	99.9	-0.1
50.00	99.7	0.2
40.00	98.9	0.7
30.00	97.6	1.3
25.00	96.3	1.3
20.00	93.7	2.6
15.00	89.3	4.4
10.00	82.1	7.2
8.00	68.5	13.5
6.00	-24.0	92.5
5.00	-102.2	78.2
4.00	-146.4	44.2
3.00	-144.4	-1.9
2.00	-109.1	-35.4
1.50	-87.1	-22.0
1.00	-67.2	-20.0
0.80	-58.4	-8.8
0.60	-50.4	-8.0
0.50	-48.6	-1.8
0.40	-50.6	2.0

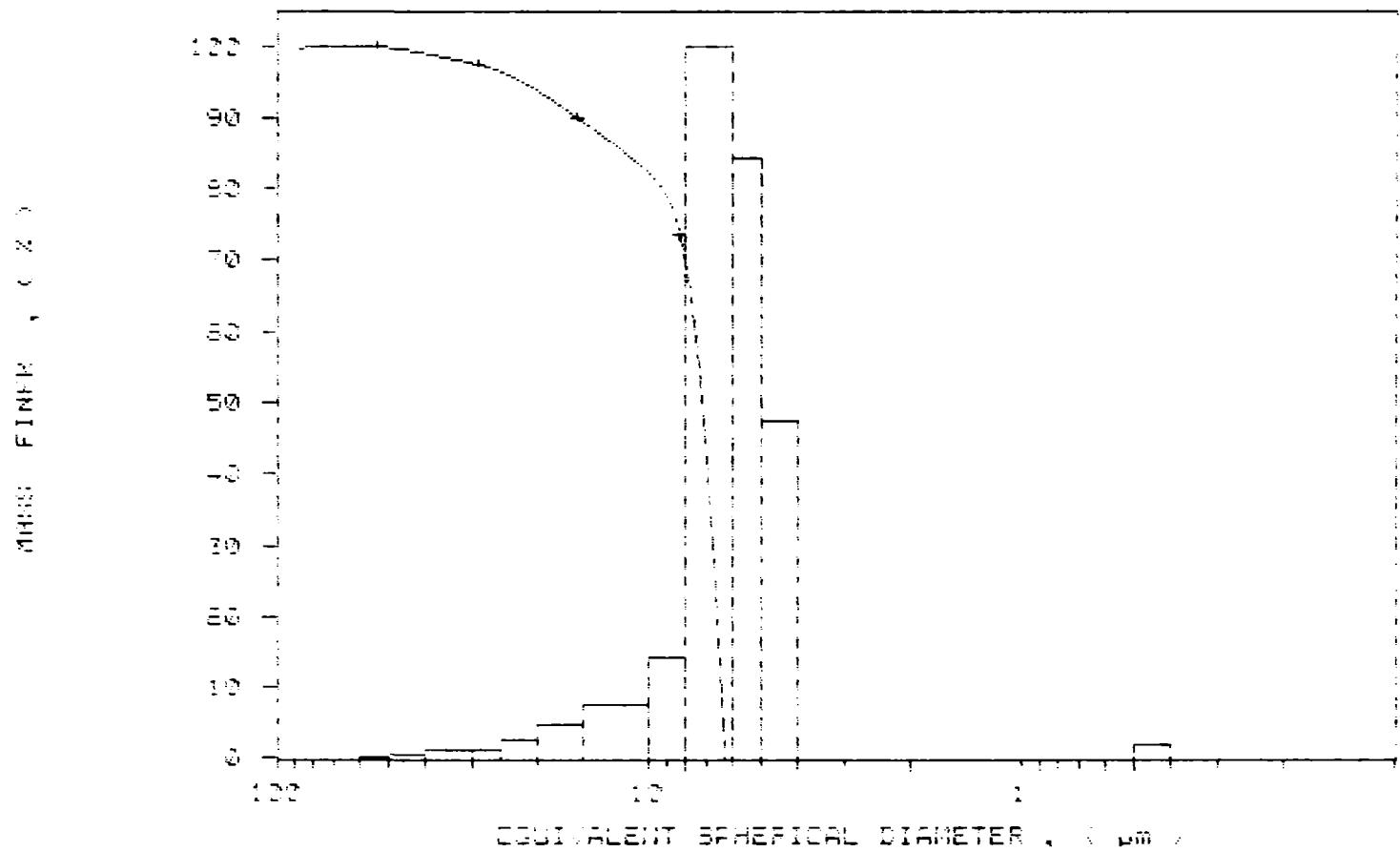


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SAMPLE DIRECTORY/NUMBER: DATA7 /330
 SAMPLE ID: Hole PJ 88-2 # 17262
 SUBMITTER: MRC inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 94 kilocounts/sec

UNIT NUMBER: 1
 START 15:39:15 11/09/94
 REPRT 15:51:30 11/09/94
 TOT RUN TIME 0:07:36
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7634 cp
 RUN TYPE: High Speed

- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /331
 SAMPLE ID: Hole PJ 88-2 # 17263
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.2 deg C
 BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 08:40:36 11/10/94
 REPRT 08:48:39 11/10/94
 TOT RUN TIME 0:07:43
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7645 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.21 μm MODAL DIAMETER: 2.36 μm

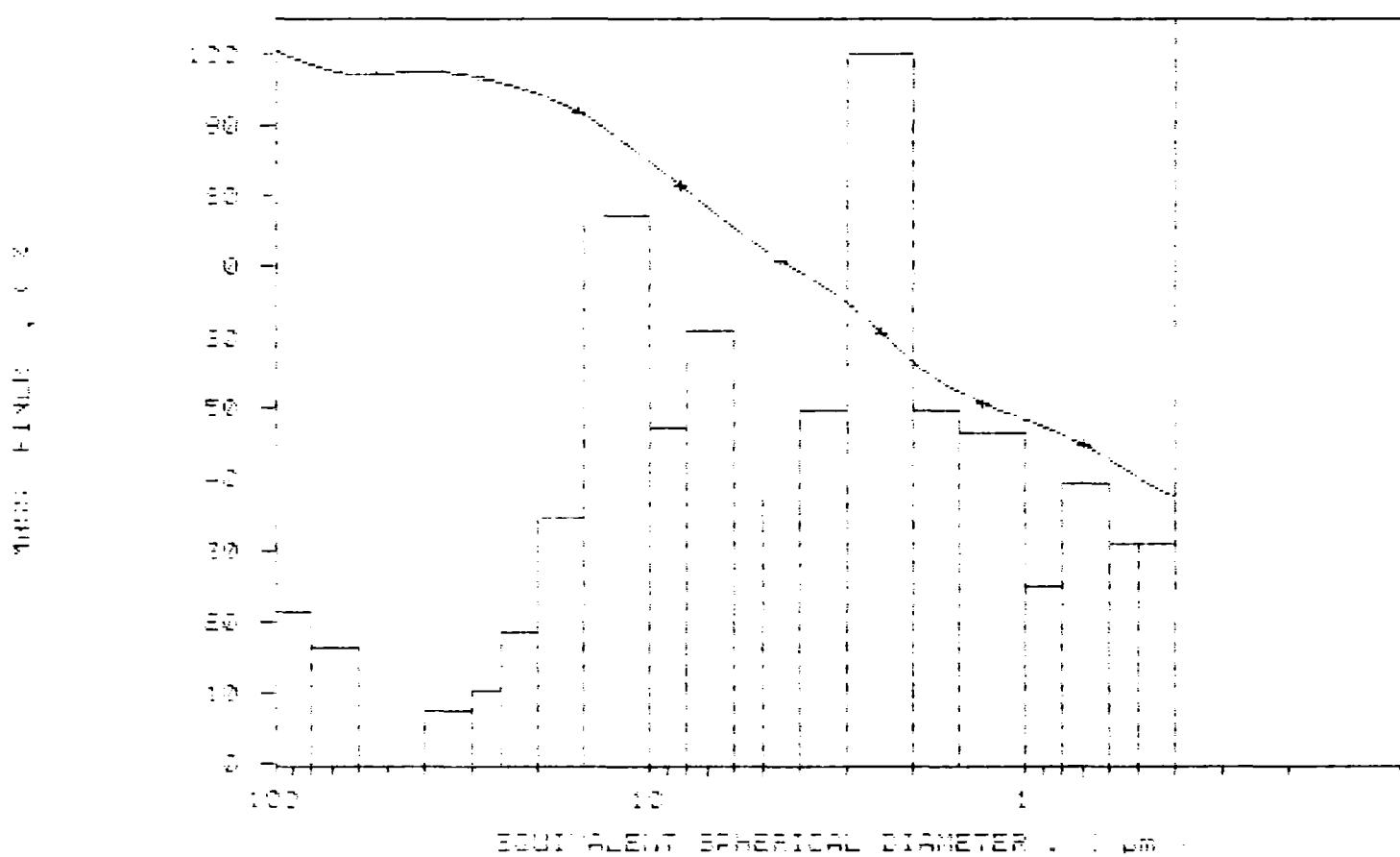
DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	100.2	-0.2
80.00	98.4	1.8
60.00	97.0	1.4
50.00	97.2	-0.2
40.00	97.4	-0.3
30.00	96.8	0.7
25.00	95.9	0.9
20.00	94.3	1.6
15.00	91.3	2.9
10.00	84.7	6.6
8.00	80.7	4.0
6.00	75.5	5.2
5.00	72.5	3.0
4.00	69.3	3.2
3.00	65.0	4.3
2.00	56.5	8.5
1.50	52.2	4.2
1.00	48.3	4.0
0.80	46.1	2.1
0.60	42.7	3.4
0.50	40.1	2.6
0.40	37.5	2.6

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SAMPLE DIRECTORY/NUMBER: DATA7 /331
 SAMPLE ID: Hole PJ 88-2 # 17263
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.2 deg C
 BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

UNIT NUMBER: 1
 START 08:40:36 11/10/94
 REPRT 08:48:39 11/10/94
 TOT RUN TIME 0:07:43
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7645 cp
 RUN TYPE: High Speed

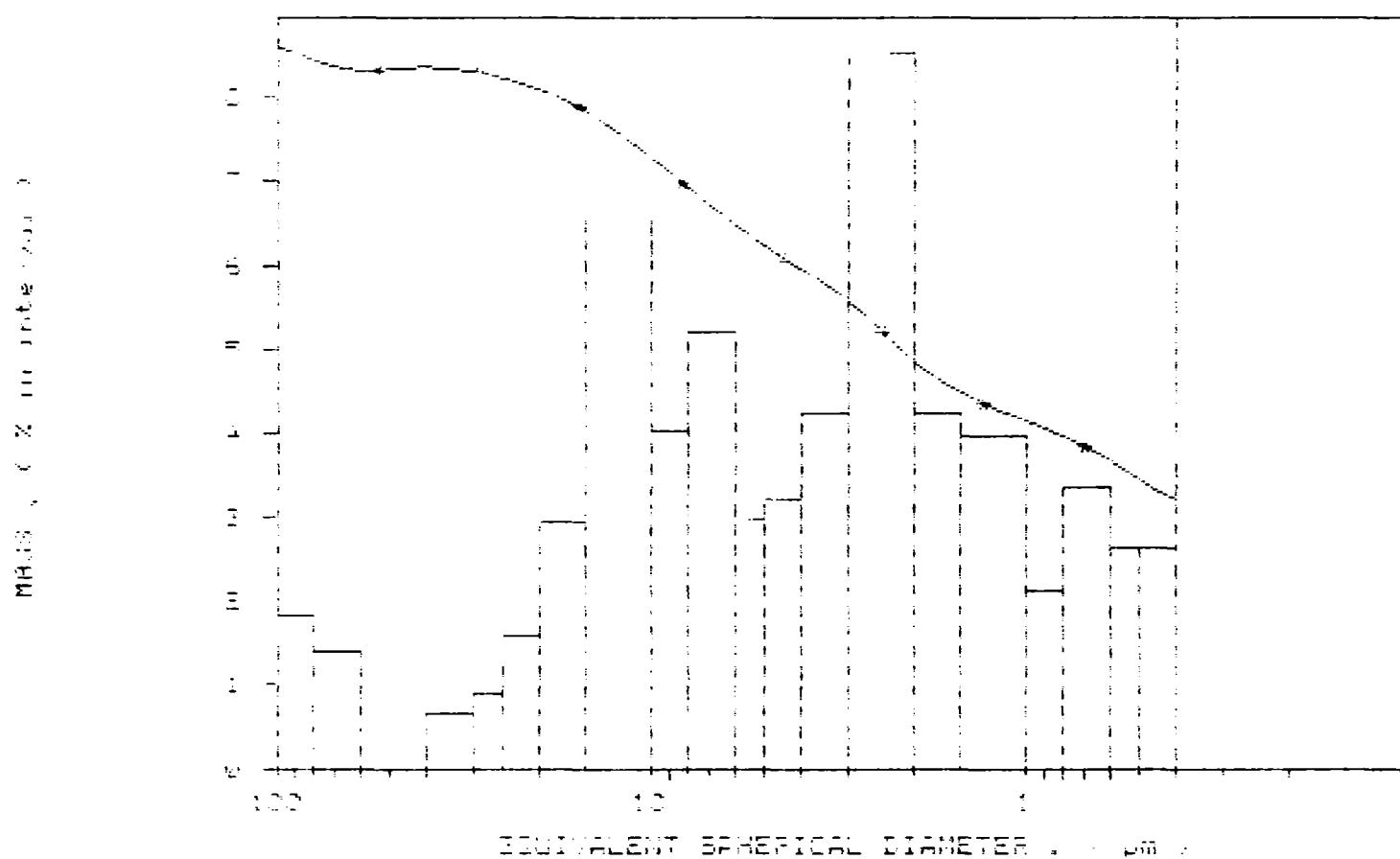
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 PASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /331
 SAMPLE ID: Hole PJ 88-2 # 17263
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.2 deg C
 BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

UNIT NUMBER: 1
 START 08:40:36 11/10/94
 REPRT 08:48:39 11/10/94
 TOT RUN TIME 0:07:43
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7645 cp
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
 * CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /256
 SAMPLE ID: Hole 92-3 # 16412
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 79 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 11:24:12 10/25/94
 REPRT 11:36:37 10/25/94
 TOT RUN TIME 0:07:53
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7637 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.59 μm MODAL DIAMETER: 5.64 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.2	0.8
80.00	99.0	0.2
60.00	99.0	0.0
50.00	99.1	-0.1
40.00	99.2	-0.1
30.00	98.8	0.3
25.00	97.9	0.9
20.00	96.0	2.0
15.00	91.9	4.1
10.00	83.5	8.4
8.00	78.4	5.0
6.00	71.2	7.2
5.00	66.2	5.0
4.00	60.5	5.8
3.00	53.4	7.0
2.00	43.9	9.5
1.50	37.4	6.5
1.00	29.9	7.5
0.80	26.5	3.3
0.60	22.9	3.6
0.50	20.9	2.0
0.40	18.6	2.3

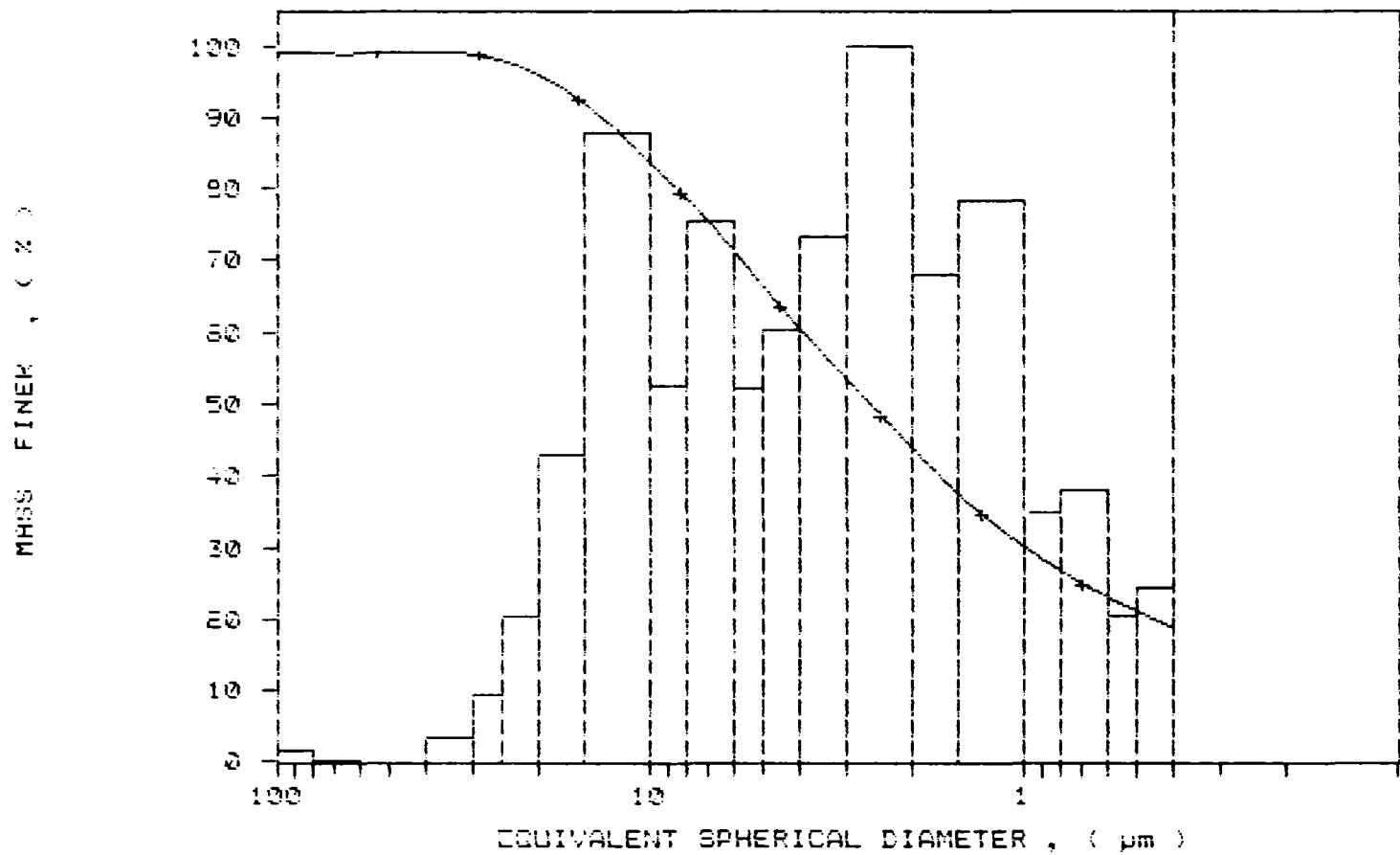
H. malmstrom

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SAMPLE DIRECTORY/NUMBER: DATA7 /256
 SAMPLE ID: Hole 92-3 # 16412
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 79 kilocounts/sec

UNIT NUMBER: 1
 START 11:24:12 10/25/94
 REPRT 11:36:37 10/25/94
 TOT RUN TIME 0:07:53
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7637 cp
 RUN TYPE: High Speed

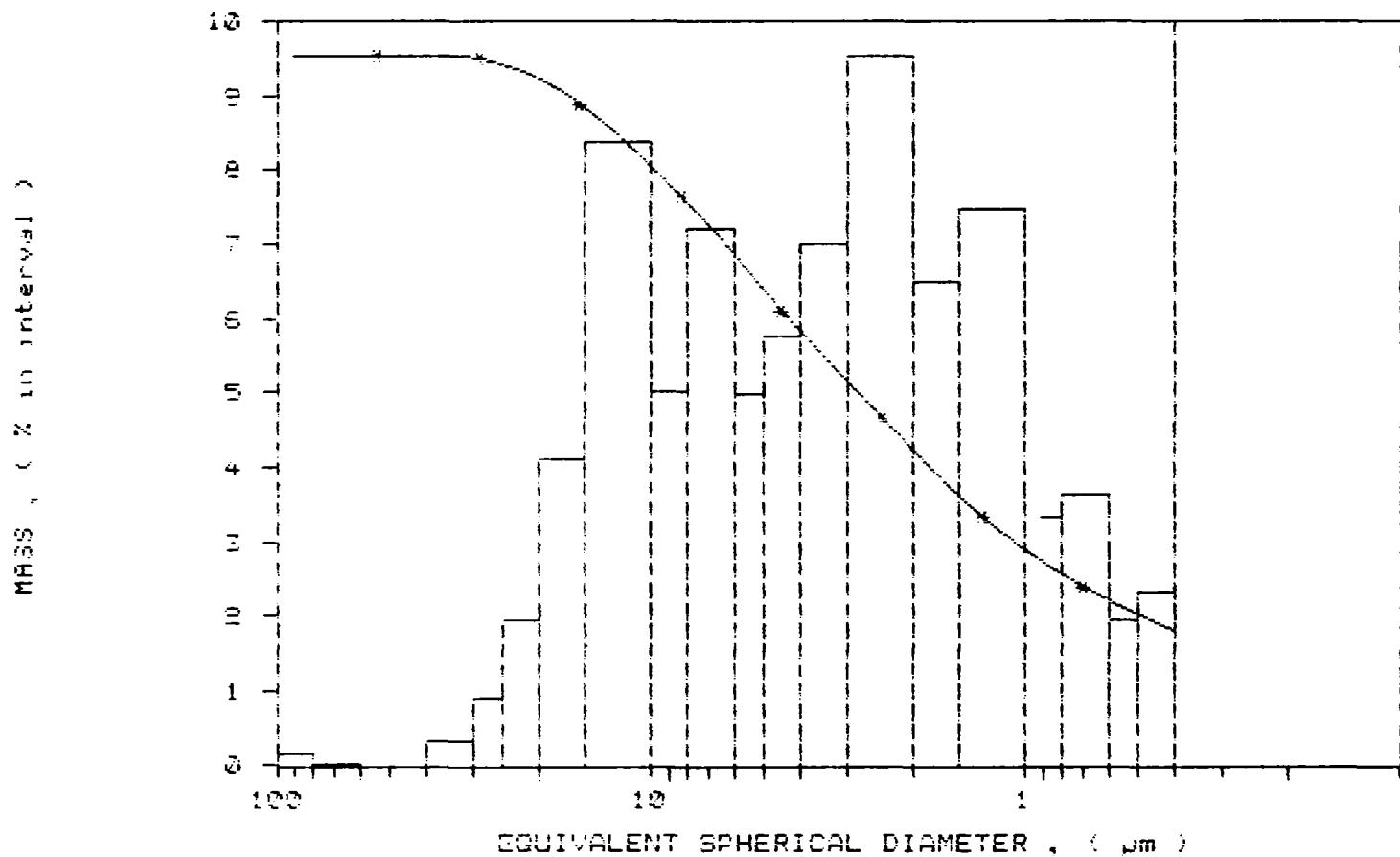
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /256
 SAMPLE ID: Hole 92-3 # 16412
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 79 kilocounts/sec

UNIT NUMBER: 1
 START 11:24:12 10/25/94
 REPRT 11:36:37 10/25/94
 TOT RUN TIME 0:07:53
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7637 cp
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
 * CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /257
 SAMPLE ID: Hole 92-3 # 16413
 SUBMITTER: MRC Inc.
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.3 deg C
 BASELINE/FULL SCALE: 130/ 105 kilocounts/sec

STARTING DIAMETER: 100.00 μm
 ENDING DIAMETER: 0.40 μm

UNIT NUMBER: 1
 START 13:27:48 10/25/94
 REPRT 13:39:58 10/25/94
 TOT RUN TIME 0:07:38
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9950 g/cc
 LIQ VISC: 0.7638 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.95 μm MODAL DIAMETER: 9.82 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	100.1	-0.1
80.00	99.5	0.6
60.00	99.6	-0.1
50.00	99.7	-0.1
40.00	99.5	0.2
30.00	98.3	1.2
25.00	96.9	1.4
20.00	93.9	3.0
15.00	88.7	5.2
10.00	81.0	7.7
8.00	76.0	5.0
6.00	71.0	5.0
5.00	67.5	3.5
4.00	63.3	4.2
3.00	57.9	5.4
2.00	50.4	7.5
1.50	45.9	4.5
1.00	38.5	7.4
0.80	35.9	2.6
0.60	32.6	3.3
0.50	30.4	2.2
0.40	28.2	2.2

A. Malusheim

000100

SONIC DRILL

42J01NE0017 2.15955 KIPLING

020

Drilling Started: Jan. 30, 1992
 Drilling Finished: Jan. 31, 1992
 Drilling Co.: Midwest
 Dip: -90°
 Hole Length: 250.0'
 Overburden Depth: 66.0'
 Claim No.: P 900097
 Easting: 3205 E
 Northing: 205 S
 Azimuth: 50° 08' 42" N, 82° 10' 57" W
 Location: 1850.0' at 223° To Claim Post No. 1
 Property: Kipling

Logged By: A. Casselman
 Logged: MARCH 24, 1992
 Core Size: 3.5"
 Core Storage:
 Mineral Research Canada
 R. R. # 2
 Parry Sound, ON
 P2A 2W8
 Hole No.: 89-16

SUMMARY

From	To	Description	
0.0'	5.0'	Peat	
5.0'	8.5'	Sand	
8.5'	44.0'	Glacial Clay Till	
44.0'	45.0'	Sand	
45.0'	50.0'	Glacial Clay Till	
50.0'	52.5'	Gravel	
53.5'	63.0'	Glacial Clay Till	
63.0'	64.0'	Granitic Boulder	
64.0'	66.0'	Glacial Clay Till	Overburden - Pleistocene
66.0'	83.0'	Sandy Clay	Cretaceous
83.0'	93.0'	Clay	
93.0'	98.0'	Sandy Clay	
98.0'	116.5'	Kaolin Silica Sand (Kss)	
116.5'	130.0'	Clay	
130.0'	161.0'	Kss	
161.0'	163.0'	Sandy Clay	
163.0'	183.0'	Kss	
183.0'	189.0'	Sandy Clay & Kss	
189.0'	195.0'	Clay & Kss	
195.0'	233.0'	Kss	
233.0'	236.0'	Sandy Clay	
236.0'	250.0'	Kss	
EOH - 250.0'			

A. Casselman
 MARCH 24, 1992
 42J01NE0017 2.15955 KIPLING

Detail Log 89-16

From	To	Sample No.	Description
0.0'	5.0'		Peat
5.0'	8.5'		Sand - greenish grey, well sorted, fine grain, predominantly silica.
8.5'	44.0'		Glacial Clay Till - green/grey, fine grain silt content, clast-free from 8.5' - 18.0', remainder 3.0 - 5.0% carbonate clasts & 10.0% gneissic clasts, up to 1.5", in more competent darker clay.
44.0'	45.0'		Sand - well sorted, fine grain, light grey, predominately silica.
45.0'	50.0'		Glacial Clay Till - as previous.
50.0'	52.5'		Gravel - greenish grey, poorly sorted, medium grain, 50.0% cobbles of carbonate type & 10.0% gneissic, approxinmatley 40.0% clay matrix.
52.5'	63.0'		Glacial Clay Till - competent, dark green/brown, calcareous, as previous.
63.0'	64.0'		Granitic Boulder - plagioclase, orthoclase, quartz. - relatively unweathered, drill cut.
64.0'	66.0'		Glacial Clay Till - as above.
66.0'	70.0'	14301	Sandy Clay - fine to medium grain, well sorted, green/grey, 22.63% kaolin.
70.0'	77.0'	14302	Sandy Clay - as above, 22.08% kaolin.
77.0'	83.0'	14303	Sandy Clay - as above, 20.86% kaolin.
83.0'	85.0'	14304	Clay - medium competency, - pliable to friable, 83.0' - 83.5' - yellow, 83.5' - 84.0' - medium brown, 84.0' - 85.0' - red, 80.71% kaolin.
85.0'	93.0'	14305	Clay - competent, buff & red mottled becoming discontinuous laminations, 57.72% kaolin.
93.0'	98.0'	14306	Sandy Clay - non-competent, pliable, 93.0' - 94.0' - light grey, 94.0' -

			97.0' - light grey with red clots, 97.0' - 98.0' - light grey, 28.46% kaolin.
98.0'	102.0'	14307	Kss - well sorted, medium grain, intensely yellow. 5.95% kaolin.
102.0'	110.0'	14308	Kss - as above - 102.0' - 104.0', 104.0' - 110.0' - coarse grain, moderate to intense yellow colouration. 6.15% kaolin.
110.0'	115.0'	14309	Kss - well sorted, medium grain, grey/yellow from 110.0' - 112.0', 112.0' - 115.0' - poorly sorted, coarse grain, light grey. 13.52% kaolin.
115.0'	116.5'	14310	Kss - as above, coarse grain, moderate yellow at upper contact. 12.53% kaolin.
116.5'	119.0'	14311	Clay - pliable, light grey/brown. 86.71% kaolin.
119.0'	121.0'	14312	Clay - medium competency, pliable to friable, brown, 71.54% kaolin.
121.0'	124.5'		Clay - competent, disc-like, greasy, medium grey to red grading to red & grey mottled grading to yellow and grey mottled.
124.5'	130.0'		Clay - some silty sections with high illite, competent, greasy, chocolate brown.
130.0'	133.0'		Kss - medium grain, white, entire remainder of hole dried.
133.0'	137.0'		Kss - medium grain, white, as above, some darker brown areas due to contamination.
137.0'	141.0'		Kss - medium grain, white, as above.
141.0'	145.0'		Kss - medium grain, grading to fine grain, white, minor illite.
145.0'	150.0'		Kss - medium grain, white.
150.0'	155.0'		Kss - medium grain, light brown.
155.0'	158.0'		Kss - medium grain, rare coarser smoky quartz clasts, light brown.
158.0'	161.0'		Kss - medium grain, medium brown.
161.0'	163.0'		Sandy Clay - very fine grain, silty, competent, semi-pliable, medium brown, minor illite, moist.

163.0' 166.0' Kiss - medium grain, white, heavies and illite as minors.

166.0' 170.0' Kiss - fine grain, white, minor illite.

170.0' 174.0' Kiss - as above, moist.

174.0' 179.0' Kiss - medium grain, white.

179.0' 183.0' Kiss - as above.

183.0' 189.0' Kiss & Sandy Clay - interbedded, fine grain, illitic sandy clay with medium grain kss, moist, medium brown.

189.0' 195.0' Clay & Kiss - interbedded - competent, disc-like, greasy, chocolate brown and buff clay interbedded with medium grain light grey kss, minor illite.

195.0' 200.0' Kiss - fine grain, light grey, minor illite.

200.0' 205.0' Kiss - as above.

205.0' 210.0' Kiss - medium grain, frequent, coarser smoky quartz clasts, as well as vari-coloured silica, light grey, minor heavies and illite.

210.0' 215.0' Kiss - as above.

215.0' 219.0' Kiss - clay-rich, fine grain, medium grey, minor heavies and illite.

219.0' 224.0' Kiss - as above.

224.0' 229.0' Kiss - medium grain, coarsening downsection to coarse clasts up to 2.5" in a white clay matrix, remainder light grey, vari-coloured siliceous angular to rounded, one silica with frequent black specks and mottling on one face, possibly tourmaline in a light yellow chert/silica matrix.

229.0' 233.0' Kiss - as above.

233.0' 236.0' Sandy Clay - fine grain, buff, minor illite, some kss contamination.

236.0' 240.0' Kiss - medium grain, with larger vari-coloured silicas, light grey, sulphureous smell, one yellow patch.

240.0' 243.0' Kiss - medium grain, light grey.

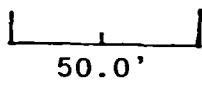
243.0' 246.0' Kiss - medium grain, white.

246.0' 250.0' Kss - as above.

EOH - 250.0'

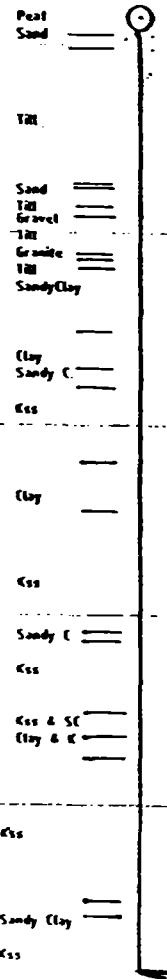
Section 89-16

Claim No.: P 900097
Hole Length: 250.0'
Overburden Depth: 66.0'
Astronomic Azimuth: $50^{\circ} 08' 42''$ W. $82^{\circ} 10' 57''$ N.
Location: 1850.0' at 223° to claim post no. 1
Scale: $1.0'' = 50.0'$ or 1:600
Northing: 205 S
Easting: 3205 E
Dip: -90°



Gridline 3300

89-16



Section 89-16

Claim No.: P 900097

Hole Length: 250.0'

Overburden Depth: 66.0'

Astronomic Azimuth: 50° 08' 42" N, 82° 10' 57" W

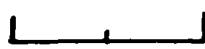
Location: 1850.0' at 223° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 205 S

Easting: 3205 E

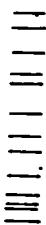
Dip: -90°



Gridline 3300

89-16

M301
M302
M303
M304
M305
M306
M307
M308
M309
M310
M311
M312



000100

SONIC DRILL HOLE RECORD

Drilling Started: Mar. 14, 1992 Logged By: A. Casselman
Drilling Finished: Mar. 14, 1992 Logged: Sept. 18, 1992
Drilling Co.: J. R. Drilling Core Size: 3.5"
Dip: -90° Core Storage:
Hole Length: 252.0' Mineral Research Canada
Overburden Depth: 140.0' R. R. # 2
Claim No.: P 1112320 Parry Sound, ON
Easting: 4970 E P2A 2W8
Northing: 1006 N Hole No.: 92-4
Azimuth: 50° 09' 16" N, 82° 09' 33" W
Location: 1600.0' at 199° to claim post no. 1
Property: Kipling

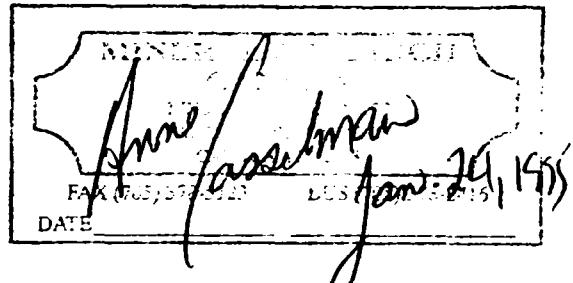
SUMMARY

RECEIVED

APR 26 1995

MINING LANDS BRANCH

From	To	Description	APR 26 1995
0.0'	0.5'	Peat	MINING LANDS BRANCH
0.5'	140.0'	Glacial Clay Till	Overburden - Pleistocene
140.0'	172.0'	Kaolin Silica Sand (Kss)	Cretaceous
172.0'	174.5'	Sandy Clay, Kss, & Clay	2 • 15955
174.5'	177.0'	Kss	
177.0'	187.0'	Kss & Sandy Clay	
187.0'	208.0'	Kss	
208.0'	213.0'	Kss & Clay	
213.0'	252.0'	Kss	



EOH - 252.0'

Hole Location : 30.5 m due west of Pike Creek (Kipling Township)
: 4970 m E of baseline point 00
: 1006 m N of baseline

Detail Log - 92-4

From	To	Sample No.	Description
0.0'	0.5'		Peat
0.5'	137.0'		Glacial Clay Till - highly competent, calcareous, rare carbonate and gneissic angular clasts.
137.0'	140.0'		Glacial Clay Till/Kss - contact zone- 137.0' - 139.5' - till with external kss contamination, 139.5' - 140.0' - dark grey highly calcareous medium grain kss.
140.0'	143.0'	16451	Kss - medium grey, with lighter sections, much contamination, medium grain, one larger rounded orange chert, 7.39% kaolin.
143.0'	147.0'	16452	Kss - medium grain, alternating dark brown/yellow & white sections, white containing more clay, 5.34% kaolin.
147.0'	152.0'	16453	Kss - medium grain, some slightly coarser areas, 151.0' - 152.0', coarse grain, light buff, more clay in coarse grain sections, minor illite and heavies, increasing in coarse grain sections, prevalent yellow chert, 7.75% kaolin.
152.0'	157.0'	16454	Kss - as above, coarse sections and medium grain sections alternating throughout, light grey clay clots up to 0.5", oblate siltstone angular fragments, white with silicas clasts imbedded at 154.0' - 0.5", 7.92% kaolin.
157.0'	162.0'	16455	Kss - as above, 10.91% kaolin.
162.0'	166.0'	16456	Kss - as above, medium grain, grading downsection, 2.0', to coarse 2.0" sharp contact with fine grain, 7.80% kaolin.
166.0'	172.0'	16457	Kss - fine grain, medium grey, high percentage illite, more heavies banding - 168.5' - 169.5' - sandy clay - dark buff, fine grain, pliable, minor illite and heavies, areas of dark grey inside, rare large sub-

- rounded smoky quartz, 0.25", 11.90% kaolin.
- 172.0' 174.5' 16458 Sandy Clay, Kiss, & Clay - buff, sandy clay - pliable, high illite content, large flake, chocolate brown pliable clay, 4.0" buff with dark brown laminations, kiss - buff, fine grain, 2.0" to light brown, pliable sandy clay, to medium grain, medium brown clay 5.0", pliable, high illite, to kiss, medium grain light brown, rare larger sub-rounded smoky quartz 0.25", to sandy clay - pliable, buff, darker laminations, purple laminations, minor illite, some medium grain kiss mottling, 36.00% kaolin.
- 174.5' 177.0' 16459 Kiss - medium grain, light brown, rare larger sub-rounded smoky quartz up to 0.25", minor illite and heavies, 10.63% kaolin.
- 177.0' 182.0' 16460 Kiss & Sandy Clay - all medium grain, light brown, minor illite and heavies, some heavies banding, large flake illite in sandy clay, 14.41% kaolin.
- 182.0' 187.0' 16461 Kiss & Sandy Clay - as above, rusty coloured exterior contamination, 0.5" band at 183.0' - containing large rounded jasper and clay clots 0.25" and high percentage heavies - garnet?, 11.22% kaolin.
- 187.0' 188.0' 16462 Kiss - medium grain with larger clasts grading to fine grain, light brown, minor illite and heavies, 13.77% kaolin.
- 188.0' 193.0' 16463 Kiss - fine grain grading downsection to coarse grain, then medium grain, with coarser clasts, minor illite, high percentage heavies in bands as well as dispersed, extremely large sub-rounded milky quartz in fine grain at 188.5', 2.5", medium to dark grey where heavies banding occurs, vari-coloured silicas, 7.95% kaolin.
- 193.0' 199.0' 16464 Kiss - medium grain, with frequent larger clasts alternating with coarse grain in a white (light grey in some areas) clay matrix, minor heavies & illite, vari-coloured silica, dark concord purple clay horseshoe shaped clot at 198.0', 9.29% kaolin.

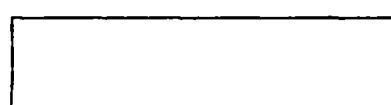
199.0' 203.0' 16465 **Kss** - coarse grain in a medium grain matrix, light grey, clasts up to 2.5", sub-rounded vari-coloured silica, minor illite and heavies, one area of black-like purple, minor clay clotting near larger clasts, 10.38% kaolin



203.0' 208.0' 16466 **Kss** - coarse grain, in a medium grain matrix, as above, 203.0' - 205.5' - last 0.5" dark grey, higher percentage of heavies, banded, after 205.5' - 208.0', white, clay depleted, rust staining due to drilling debris, very small percentage illite and heavies, some clay-rich bands, close to clay matrix, purple clots, 8.63% kaolin.

208.0' 213.0' 16467 **Kss & Clay** - kss - 208.0' - 210.0' - clay-rich medium grain, frequent coarse clasts, buff with some yellowish areas, one area of sherbet clay surrounded an orange chert, 210.0' - 211.0' - clay - pliable, buff with medium grain, buff kss mottling at 210.0', clay is dark green, some black with dark yellow/green contact with kss, pliable, some purple laminations at contact with buff clay, 211.0' - 213.0' - kss - medium grain, light brown, frequent large smoky quartz and yellow chert up to 2.0", minor heavies and heavies banding, garnet?, minor illite, 20.10% kaolin.

213.0' 218.0' 16468 **Kss** - medium grain grading to coarse grain in a medium grain matrix to coarse grain in a light grey clay matrix, vari-coloured silicas, sub-angular to rounded, 7 Devonian clasts found from 214.0' - 217.75' - 1. - siliceous dolostone highly irregular weathering, very pitted, sub-angular, 2.0" x 1.0", highly fossiliferous, 33.0% colonial coral, brachiopods, crinoids etc., dark grey, nearly black in some



areas, *in situ* crystal growth, very small spheres are orange brown, 2. - clast is 3.0" x 2.5" dark grey sandstone, extremely fine grain, chatter marks, no apparent fossils, sub-angular, 3. is as 2. but oval in cross section, no apparent fossils, but itself a possible large crinoid section or solitary coral, 4&5. - small, oblate clasts, black, has very pitted surface, no fossils - other similar but centrally grey, apparent zaphrenis, 6. & 7. - 2 pieces of the same rock possibly split by the action of the drill although not likely, light grey, very pitted, same exterior & interior colour together 3.5", adjoining flat surface shows a solitary horn coral, green around the fossil, one piece shows a purple section near a fossil, angular, *in situ* pyritic growth, silica clasts as part of the rock, dolostone, 9.09% kaolin.

- 218.0' 223.0' 16469 Kiss - coarse grain in a white clay matrix, some purple near heavies bandings, grading to medium grain, to fine grain, clay-rich, vari-coloured silica, after 219.0' - buff, minor heavies and illite, frequent coarse clasts at 221.0' - large no. of granular clasts, angular - prolate generally red/brown, entirely composed of silica and garnet, garnets as heavies, banding of garnets, some faceted orange/brown (Lakefield Research report July 1993 states inhomogeneity and multicomponent mineral aggregates), 16.25% kaolin.
- 223.0' 228.0' 16470 Kiss - extremely coarse grain in a buff sandy clay matrix, minor illite - 223.0' - 224.0', 224.0' - 228.0' - kiss - fine grain, light brown, minor illite and heavies, some clay enrichment, mottling and heavies banding, 16.53% kaolin.
- 228.0' 232.0' 16471 Kiss - white, medium grain, small clay clots, minor heavies and illite, half of the core out of the box, not sampled, heavies as laminations, dark banding, 6.81% kaolin.
- 232.0' 237.0' 16472 Kiss - as above, 5.42% kaolin.
- 237.0' 242.0' 16473 Kiss - as above from 237.0' - 241.0', 241.0' - 242.0' - higher clay content, very light brown/red, 0.25" clay seam - medium brown, some black laminations at 241.75' - minor heavies - dispersed and as banding, minor

illite, coarser grain, green/yellow band at
238.75' of 2.0", 6.84% kaolin.

242.0' 246.75' 16474 Kss - as at 237.0' - 241.0' - clay clot -
medium brown, pliable at lower contact,
large clasts at lower contact, more
red/brown than above, 8.35% kaolin.

246.75' 252.0' 16475 Kss - nearly sandy clay, buff, fine grain,
chocolate & medium brown mottled, some
illite seams, large flake illite in seams,
minor heavies, 29.52% kaolin.

EOH - 252.0'

Section 92-4

Claim No.: P 1112320

Hole Length: 252.0'

Overburden Depth: 140.0'

Astronomic Azimuth: 50° 09' 16" N, 82° 09' 33" W

Location: 1600.0' at 199° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 1470 N

Easting: 4970 E

Dip: -90°

50.0'

Gridline 5000

Section 92-4

Claim No.: P 1112320

Hole Length: 252.0'

Overburden Depth: 140.0'

Astronomic Azimuth: 50° 09' 16" W. 82° 09' 33" N

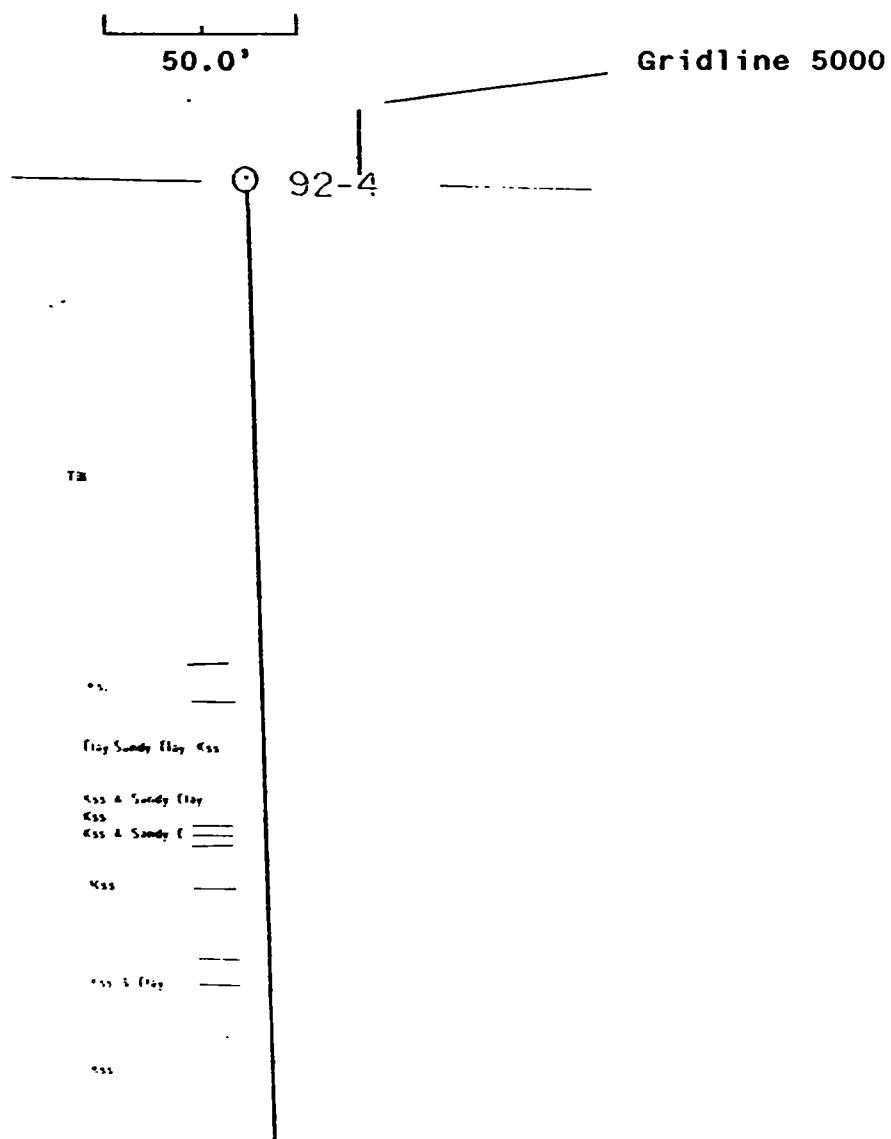
Location: 1600.0' at 199° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 1470 N

Easting: 4970 E

Dip: -90°



Section 92-4

Claim No.: P 1112320

Hole Length: 252.0'

Overburden Depth: 140.0'

Astronomic Azimuth: 50° 09' 16" W. 82° 09' 33" N

Location: 1600.0' at 199° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

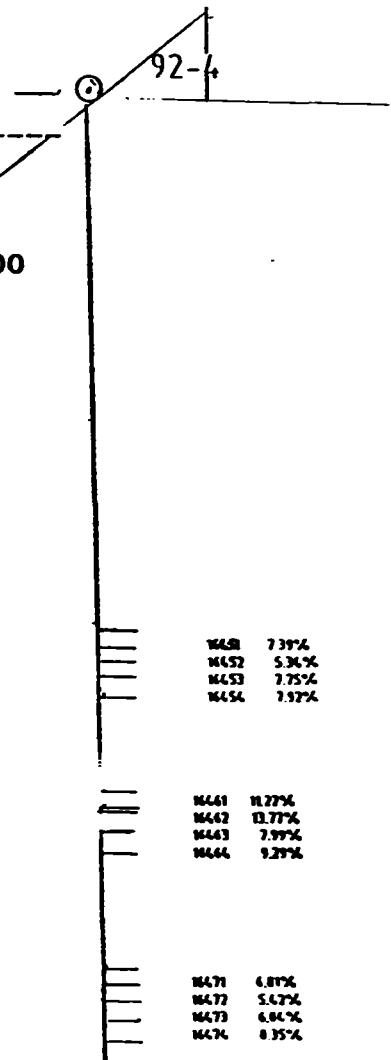
Northing: 1470 N

Easting: 4970 E

Dip: -90°

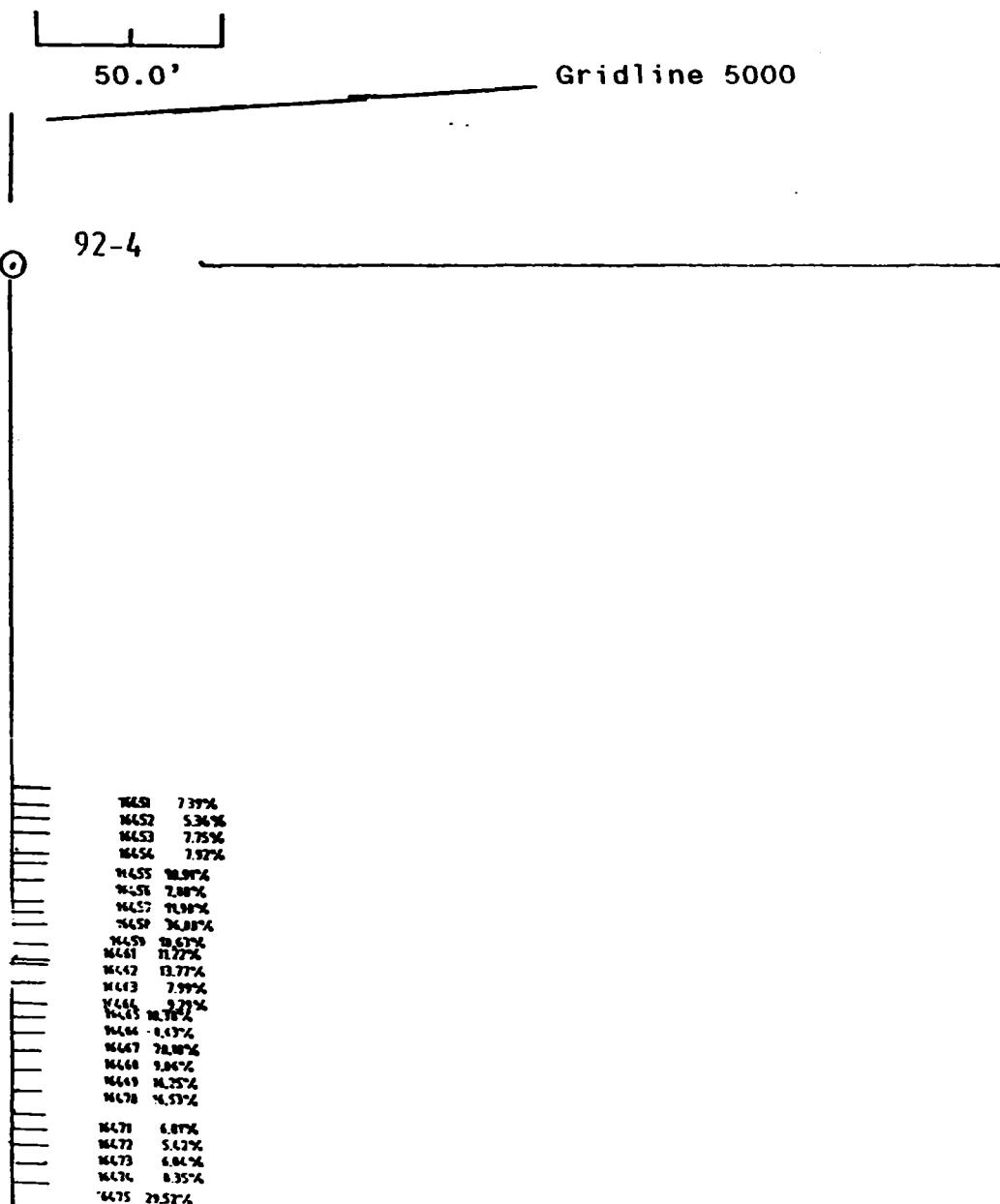
50.0'

Gridline 5000



Section 92-4

Claim No.: P 1112320
Hole Length: 252.0'
Overburden Depth: 140.0'
Astronomic Azimuth: 50° 09' 16" N, 82° 09' 33" W
Location: 1600.0' at 199° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 1470 N
Easting: 4970 E
Dip: -90°



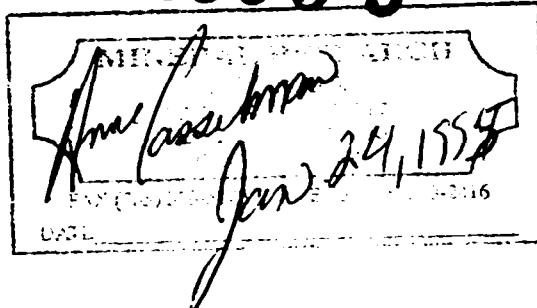
000100

SONIC DRILL HOLE RECORD

Drilling Started: Mar. 14, 1992 Logged By: A. Casselman
Drilling Finished: Mar. 15, 1992 Logged: Sept. 8, 1992
Drilling Co.: J. R. Drilling Core Size: 3.5"
Dip: -90° Core Storage:
Hole Length: 250.0' Mineral Research Canada
Overburden Depth: 145.5' R. R. # 2
Claim No: P 825792 Parry Sound, ON
Easting: 4900 E P2A 2W8
Northing: 840 N Hole No.: 92-3
Azimuth: 50° 09' 10" N, 82° 09' 32" W
Location: 530.0' at 253° To Claim Post No. 1
Property: Kipling

SUMMARY

From	To	Description	
0.0'	145.5'	Glacial Clay Till - Overburden	Pleistocene
145.5'	165.0'	Clay	Cretaceous
165.0'	177.5'	Kaolin Silica Sand (Kss)	2.15955
177.5'	182.0'	Clay	
182.0'	186.0'	Sandy Clay	
186.0'	240.0'	Kss	
240.0'	242.75'	Sandy Clay	
242.75'	250.0'	Kss	



EOH - 250.0'

Hole located: 91.0 m due west of Pike Creek (Kipling Township)
: 4900 m E of point 00 on the baseline
: 840 m N of the baseline

Detail Log - 92-3

From	To	Sample No.	Description
0.0'	134.0'		Glacial Clay Till - highly competent, calcareous, 129.0' - 130.0' - interlayered red & medium grey, 130.0' - dark green, highly calcareous, up to 35.0% clasts, predominantly carbonate, some gneissic angular, red, highly calcareous also, pieces of drill bit, medium grey sandy clay, red exterior coating - kaolin based - non-calcareous, competent, weakly pliable, 130.0' - 134.0' - predominantly red, mould in exposed sections.
134.0'	141.5'	16401	Glacial Clay Till - red as above, 49.08% kaolin.
141.5'	146.5'	16402	Glacial Clay Till - interbedded red & dark green (typical till) from 141.5 - 145.5', at 145.5' - a 0.5" kss seam centre white, red exterior coating and contacts, lower contact with 1.0" dark green till contacting with medium grey/brown Cretaceous clay, finely laminated with light grey, dark brown & red, 67.54% kaolin.
146.5'	152.0'	16403	Clay - pliable, competent, 145.5' - 149.0' - red and light grey mottled - predominantly red, kss - 0.25" at 146.25' - medium grain, red, some black with the light grey, 149.0 - 151.0' - light to medium grey mottled, high illite content, grey alternating with grey to red to buff mottled then yellow/brown (red & yellow/brown) together in a wavy pattern, 0.5" wider band of 1.0" medium and light grey to yellow brown, 0.5" of medium & light grey with some mottling, to red with minor buff mottling 0.25', then 0.25' of grey with minor red mottling, 151.0' - 152.0' - 0.75' of red with minor buff mottling, last 0.25' - medium grey with minor red, much darker, minor carbonaceous pieces, 63.49% kaolin.
152.0'	155.0'	16404	Clay - competent, pliable, more gooey

- than above, medium grey, some carbonaceous material, red/brown, mottling, not as strong as above, predominantly grey, 154.5' - 154.75' - mottling with light yellow/green/red/grey, 68.58% kaolin.
- 155.0' 159.0' 16405 Clay - competent, weakly pliable, somewhat fissile, carbonaceous material increasing downsection, chocolate brown grading to black, fissility increasing downsection, chocolate brown containing darker discontinuous laminations, lignite fragments at 158.0' - black after 158.0' - 159.0', 70.56% kaolin.
- 159.0' 163.0' 16406 Clay - black, fissile, competent, some dark brown discontinuous laminating, carbonaceous, 60.51% kaolin.
- 163.0' 165.0' 16407 Clay - black, highly fissile, becoming more pliable, downsection, at contact with kss, there is approximately 5.0" of black sandy clay with high illite content, relatively sharp contact with kss, disc-like greasy conchoidal-like fracture, 57.39% kaolin.
- 165.0' 167.0' 16408 Kss - first 0.75' O hematite/limonite stained rusty yellow colour, then a dark grey band - bimodal distribution medium grain, in a fine grain matrix with some coarser smoky quartz and yellow chert - well rounded to white at 166.0' - 2.0" chocolate brown kss under finer grain grading to previous material from yellow/brown to white, 7.04% kaolin.
- 167.0' 172.0' 16409 Kss - white, medium grain, frequent larger rounded smoky quartz & yellow chert, minor illite and heavies, some purple sections - especially in clay-rich lower section, chocolate brown exterior coating, clasts up to 1.0", lower section has a large percentage chocolate brown, probably due to drill action, lower section is coarse grain in a white clay matrix, Devonian sandstone angular fragment at 169.0', powdery limonite areas as contacts with yellow chert, 18.33% kaolin.
- 172.0' 177.5' 16410 Kss - medium grey, very coarse grain, in a fine grain matrix, grading downsection to a medium grain matrix, rounded larger clasts of smoky quartz and yellow chert up to 1.0", minor clay clots, pliable buff,

- red exterior coating, minor illite and heavies, sharp contact with underlying clay, 14.87% kaolin.
- 172.0' 181.0' 16411 Clay - medium grey with red and yellow mottling, red centrally, yellow exterior and yellow bands, some purple from 177.5' - 179.0', 5.0" of kss - white medium grain, red exterior coating at 179.0', 179.0' - 181.0' - red with light buff mottling, more buff downsection - 2.0" of buff & yellow at upper contact with kss, some green with upper yellow, highly competent, fissile becoming predominantly mouldy, red most pliable, 45.59% kaolin.
- 181.0' 182.0' 16412 Clay - red, some buff mottling at lower sandy clay contact, competent, and fissile, illitic, 46.86% kaolin.
- 182.0' 184.0' 16413 Sandy Clay - buff, illitic, darker discontinuous laminations, some purple and yellow areas, 182.5' - clay seam of 4.0" - weakly red & yellow - one very fine concord purple lamination at the lower contact, very fine grain silica, 41.87% kaolin.
- 184.0' 186.0' 16414 Sandy Clay - buff, pliable, illitic, as above, no yellow, 40.41% kaolin.
- 186.0' 190.0' 16415 Kss - reddish at upper contact, white, minor illite and heavies, one sandy clay seam - buff, pliable with purple sections at 187.0' - 1.5", exterior red and yellow coating, 11.37% kaolin.
- 190.0' 196.0' 16416 Kss - as above, upper 2.0', more illite-rich, 6.91% kaolin.
- 196.0' 198.0' 16417 Kss - white, medium grain, rare larger smoky quartz clasts, minor illite and heavies, increasing percentage downsection, 7.77% kaolin.
- 198.0' 203.0' 16418 Kss - medium grain, light buff, frequent larger smoky quartz, coarser grain, in a medium grain matrix, high percentage heavies, minor illite, 198.0' - 201.0' - from 201.0' - 202.25' - white, medium grain, much lower percentage of heavies and illite, no larger clasts, 202.25' - 203.0' - as previous, extremely high concentration of heavies, dark grey clay, yellow chert, 6.46% kaolin.

- 203.0' 208.0' 16419 Kiss - at 203.0' - 233.25' - dark grey extremely high percentage heavies with large rounded smoky quartz and yellow chert in medium grain, 203.25' - 203.75' - medium grain, white, minor illite and heavies, 203.75' - 204.0' - dark grey as previous, 204.0' - 205.0' - white, fine grain, coarsening downsection to medium grain, minor illite and heavies, some heavies banding causing grey sections, at 204.5' - 2.0" band of coarse clasts - up to 1.5" rounded vari-coloured silicas with a buff clay coating, 6.23% kaolin.
- 208.0' 211.0' 16420 Kiss - medium grain, white, minor illite and heavies banding creating darker sections, 5.67% kaolin.
- 211.0' 217.0' 16421 Kiss - coarse grain, white, some medium grey sections, especially at 213.5', 4 Devonian fragments found, angular, dark grey, coral, bryozoans, crinoids, brachiopods, quite pitted, vari-coloured rounded to sub-rounded silica, bi-modal very coarse in a coarse grain matrix, 7.57% kaolin.
- 217.0' 221.0' 16422 Kiss - coarse grain, as above, grading to less clay-rich rusty buff, coarse grain with fewer very large clasts, minor illite and heavies, vari-coloured silicas, 5.32% kaolin.
- 221.0' 225.0' 16423 Kiss - coarse grain, clasts up to 1.5", light buff, minor illite and heavies, 2.0" sandstone clast, fine grain, sub-rounded dark brown, weathered surface, lighter interior, pitted, one aster-like brown section, some darker laminations, apparent exterior *in situ* sulphide formation - pyrite crust in certain areas as well as some pits, Devonian, 10.61% kaolin.
- 225.0' 229.25' 16424 Kiss - extremely coarse grain in a medium grain matrix, light grey, minor illite and heavies, sub-rounded to rounded vari-coloured silicas, 8.15% kaolin.
- 229.25' 233.0' 16425 Kiss - medium grain, white, minor illite and heavies, higher than normal percentage illite, larger flake than normal, minor heavies banding, clay-enrichments in bands, garnet banding, very fine grain garnet, 7.65% kaolin.

233.0' 237.0' 16426 Kiss - as above, 5.85% kaolin.

237.0' 240.0' 16427 Kiss - medium grain, white, minor illite and heavies, 2.0" buff pliable clay clot at lower contact with sandy clay, heavies as banding, coarse at contact, 10.00% kaolin.

240.0' 242.75' 16428 Sandy Clay - buff, pliable, minor purple sections, minor illite and heavies, 35.34% kaolin.

242.75' 245.0' 16429 Kiss - light grey, fine grain, high percentage heavies, minor illite, 13.39% kaolin.

245.0' 250.0' 16430 Kiss - fine grain, as above, coarsening downsection to medium grain portion, minor illite and heavies, & heavies as banding, 7.54% kaolin.

EOH - 250.0'

Section 92-3

Claim No.: P 825792

Hole length: 250.0'

Overburden Depth: 145.0'

Astronomic Azimuth: 50° 09' 10" W. 82° 09' 32" N

Location: 530.0' at 253° from claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 840 m N

Easting: 4900 m E

Dip: -90°



50.0'

Gridline 4900

92-3

Td

Clay

Kss

Clay

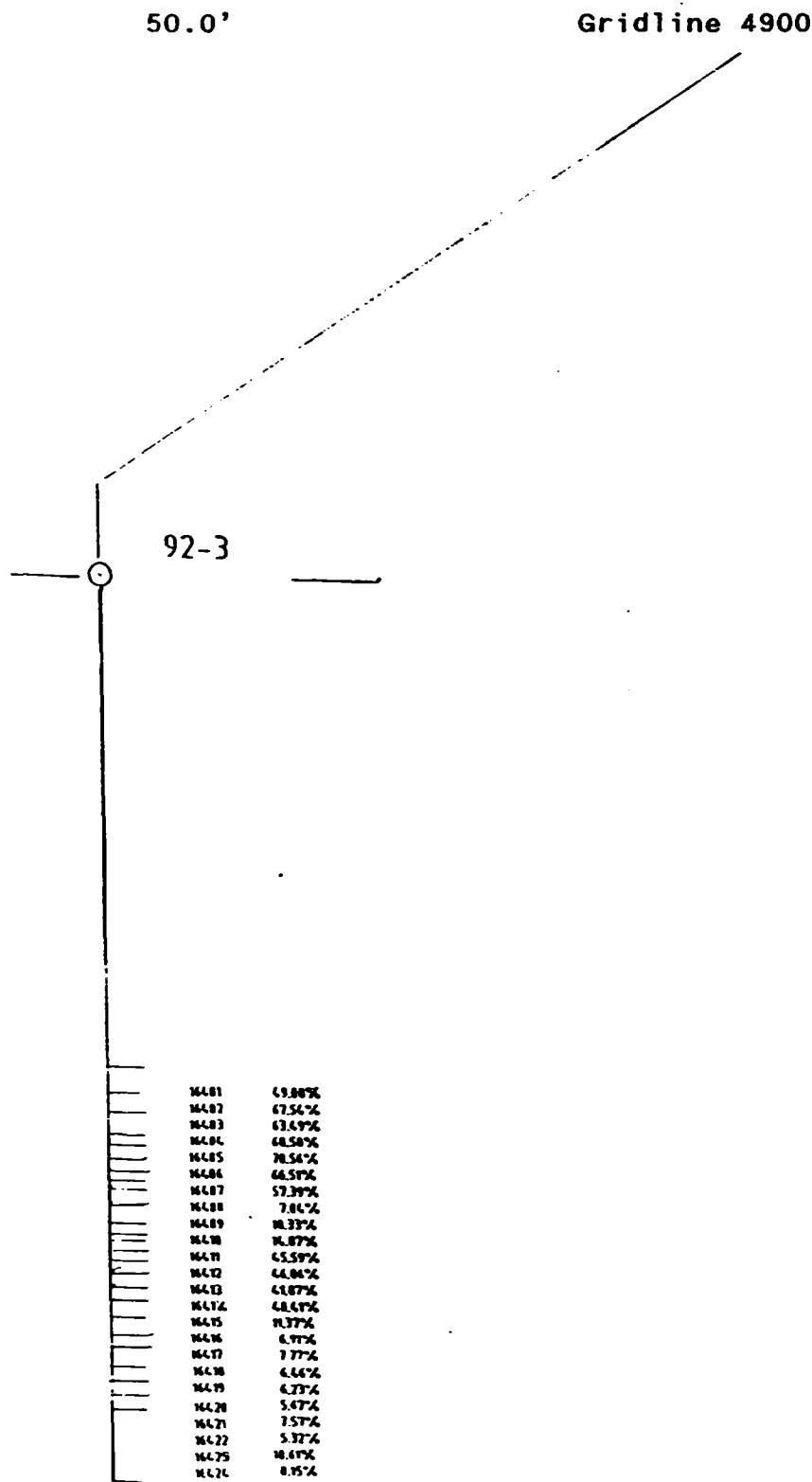
Kss

Clay

Kss

SECTION 92-3

Claim No.: P 825792
Hole length: 250.0'
Overburden Depth: 145.0'
Astronomic Azimuth: 50° 09' 10" W. 82° 09' 32" N
Location: 530.0' at 253° from claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 840 m N
Easting: 4900 m E
Dip: -90°



2. 595 5000100

RECEIVED
APR 26 1995
MINING LANDS BRANCH

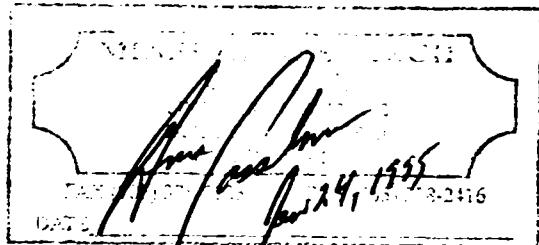
ROTARY DRILL HOLE RECORD

Drilling Started: Dec. 19, 1988 Logged By: A. Casselman
 Drilling Finished: Dec. 20, 1988 Logged: April 13, 1989
 Drilling Co.: Midwest Core Size: 3.5"
 Dip Collar:-90° Core Storage:
 Hole Length: 170.0' Mineral Research Canada
 Overburden Depth: 115.0' R. R. # 2
 Claim No.: P 825794 Parry Sound, ON
 Easting: 4600 E P2A 2W8
 Northing: 10 N Hole No.: PJ88-2
 Azimuth: 50° 08' 51" N, 82° 09' 40" W
 Location: 1400.0' at 270° To Claim Post No. 1
 Property: Kipling

SUMMARY

From	To	Description		
0.0'	115.0'	Glacial Clay Till	Overburden	- Pleistocene
115.0'	120.0'	Clay & Sandy Clay - interbedded		Cretaceous
120.0'	142.0'	Kaolin Silica Sand (Kss)		
142.0'	146.0'	Clay		
146.0'	169.0'	Sandy Clay		
169.0'	170.0'	Clay		

EOH - 170.0'



Detail Log PJ88-2

From	To	Sample No.	Description
0.0'	115.0'		Glacial Clay Till - competent, dark green\brown, calcareous, 2.0 - 5.0% carbonate clasts, 15.0% gneissic clasts from 0.25" - 1.75".
115.0'	118.0'	17251	Clay - competent and disc-like, light brown and red mottled, some yellow, 63.37% kaolin.
118.0'	120.0'	17252	Sandy clay - light brown, minor illite, entire hole smells mouldy, 30.42% kaolin.
120.0'	126.0'	17253	Kss - medium grain, light brown, dried. 8.32% kaolin.
126.0'	129.0'	17254	Kss - medium grain, light brown, minor illite, moist, 8.37% kaolin.
129.0'	134.0'	17255	Kss - medium grain, light brown, 10.33% kaolin.
134.0'	139.0'	17256	Kss - medium grain, medium grey, larger rounded smoky quartz, minor heavies, dried, 5.93% kaolin.
139.0'	142.0'	17257	Kss - coarse grain, fining downsection to medium grain, light grey, dried, 7.27% kaolin.
142.0'	146.0'	17258	Clay - competent, disc-like, greasy, buff with yellow & purple laminations, mottled to medium brown, 72.21% kaolin.
146.0'	152.0'	17259	Sandy Clay - competent, fine grain, buff, few darker laminations at upper contact, dried, 41.70% kaolin.
152.0'	157.0'	17260	Sandy Clay - competent, disc-like, greasy, chocolate brown, with carbonaceous laminations at upper contact, dried, 47.00% kaolin.
157.0'	162.0'	17261	Sandy Clay - as above, 55.95% kaolin.
162.0'	169.0'	17262	Sandy Clay - competent, fissile, chocolate brown - as above, haematite staining, much drilling debris, 44.67% kaolin.
169.0'	170.0'	17263	Clay - competent, fissile, medium

**yellow, with some medium brown mottling,
64.32% kaolin.**

EOH - 170.0'

Section PJ88-2

Claim No.: P 825794

Hole Length: 170.0'

Overburden Depth: 115.0'

Astronomic Azimuth: $50^{\circ} 08' 51''$ W. $82^{\circ} 09' 40''$ N

Location: 1400.0' at 270° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 010 N

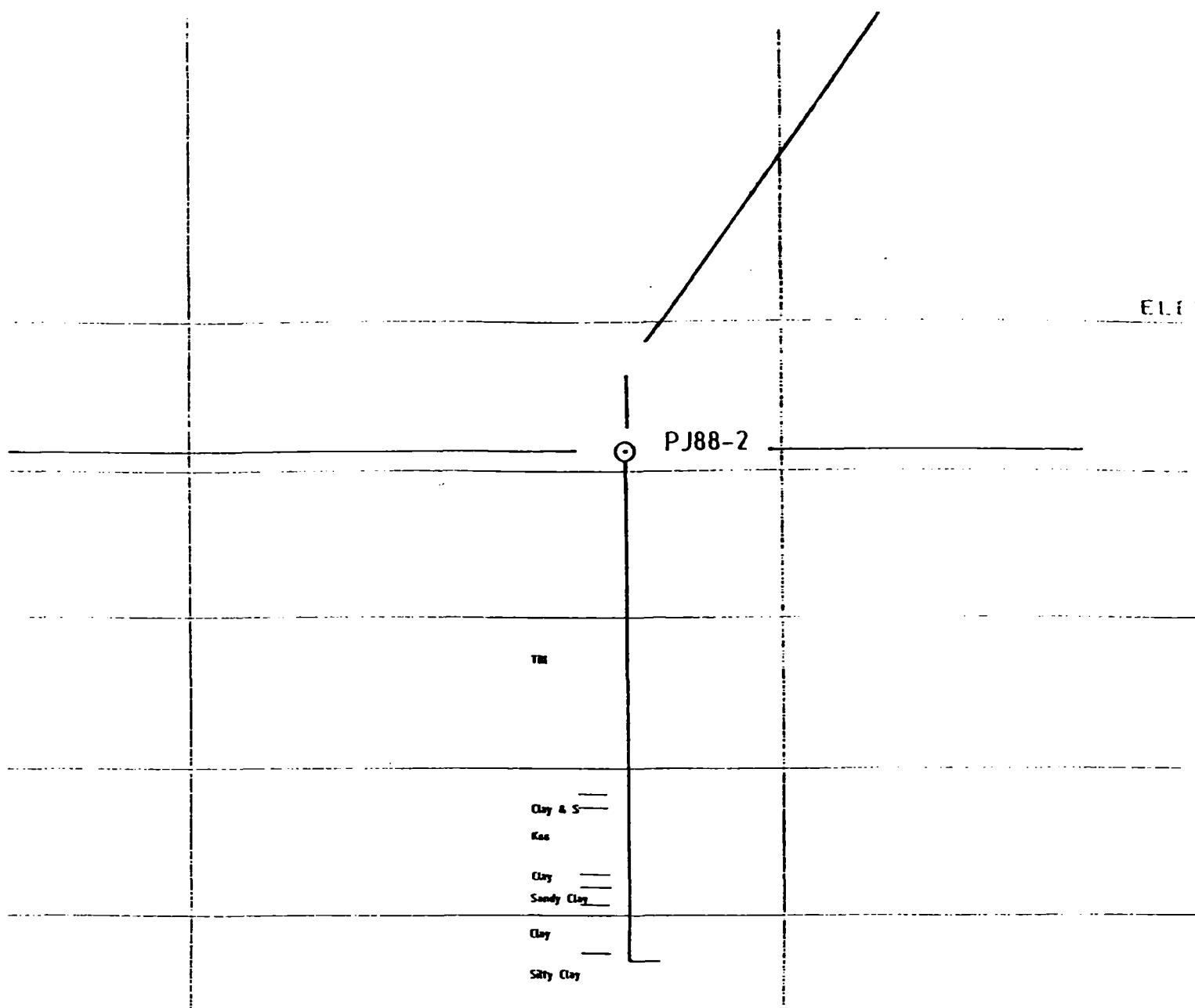
Easting: 4600 E

Dip: -90°



50.0'

Gridline 4600



Section PJ88-2

Claim No.: P 825794

Hole Length: 170.0'

Overburden Depth: 115.0'

Astronomic Azimuth: 50° 08' 51" N, 82° 09' 40" W

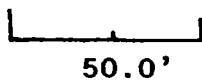
Location: 1400.0' at 270° to claim post no.1

Scale: 1.0" = 50.0' or 1:600

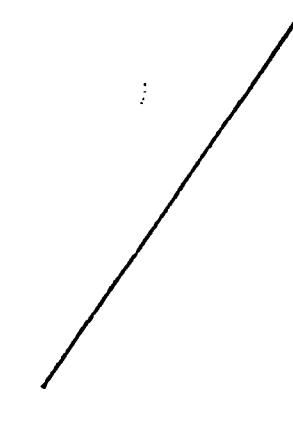
Northing: 010 N

Easting: 4600 E

Dip: -90°

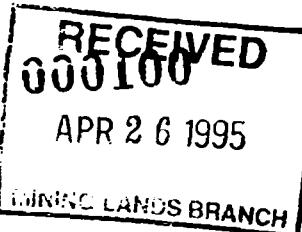


Gridline 4600



17251	63.37%
17252	30.67%
17253	8.37%
17254	8.37%
17255	10.37%
17256	5.37%
17257	2.37%
17258	72.20%
17259	41.78%
17260	41.58%
17261	55.95%
17262	44.57%
17263	61.37%

201505



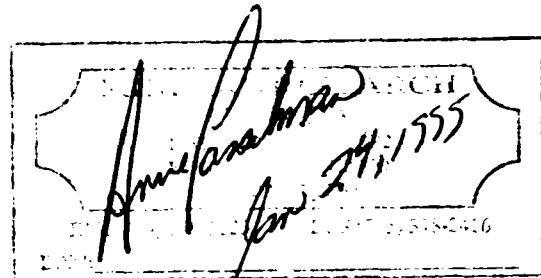
ROTARY DRILL HOLE RECORD

Drilling Started: Dec. 18, 1988 Logged By: A. Casselman
Drilling Finished: Dec. 19, 1988 Logged: April 12, 1989
Drilling Co.: Midwest Core Size: 3.5"
Dip Collar: -90° Core Storage:
Hole Length: 185.0' Mineral Research Canada Inc.
Overburden Depth: 86.0' R. R. # 2
Claim No.: P 825794 Parry Sound, ON
Easting: 5010 E P2A 2W8
Northing: BL 00 N Hole Number: PJ88-3
Azimuth: 50° 08' 50" N, 82° 09' 15" W
Location: 100.0' at 245° To Claim Post No. 1
Property: Kipling

SUMMARY

From To Description

0.0'	86.0'	Glacial Clay Till	Overburden - Pleistocene
86.0'	133.0'	Kaolin Silica Sand (Kss)	Cretaceous
133.0'	135.0'	Clay	
135.0'	141.0'	Kss	
141.0'	143.0'	Clay	
143.0'	149.0'	Kss	
149.0'	153.0'	Sandy Clay	
153.0'	158.0'	Kss	
158.0'	160.0'	Clay	
160.0'	170.0'	Sandy Clay	
170.0'	185.0'	Kss	



EOH - 185.0'

Detail Log - PJ88-3

From	To	Sample No.	Description
0.0'	86.0'		Glacial Clay Till - competent, dark green/brown, calcareous, 2.0 - 5.0% carbonate clast & 10.0% gneissic clasts alternating with light brown massive, pliable, clast-free material.
86.0'	89.0'	3751	Kss - coarse grain, high clay content, white, - white clay seam at 87.0' - 87.25', kss - purple from 88.0' - 89.0', containing vari-coloured silicas. 19.85% kaolin - calculated.
89.0'	94.0'	3752	Kss - as above, purple and brown laminations from 93.0' - 93.5'. 9.16% kaolin - calculated.
94.0'	99.0'	3753	Kss - fine grain, dark grey & brown, some areas of white, 1.0" band of rose colouration at 95.0', minor illite and heavies. 5.11 % kaolin - calculated.
99.0'	105.0'	3754	Kss - as above, mostly white. 5.62% kaolin - calculated.
105.0'	110.0'	3755	Kss - as above. 6.03% kaolin - calculated.
110.0'	113.0'	3756	Kss - as above, interbedded with medium brown pliable clay from 111.0' - 111.75'. 8.53% kaolin - calculated.
113.0'	118.0'	3757	Kss - as above, no clay seams. 6.81% kaolin - calculated.
118.0'	121.0'	3758	Kss - as above, dark colouration from 119.0' - 119.25'. 10.05% kaolin.
121.0'	126.0'	3759	Kss - medium grain, white, entire hole dried.
126.0'	130.0'	3760	Kss - medium grain, white.
130.0'	133.0'	3761	Kss - medium grain, light grey.
133.0'	135.0'	3762	Clay - competent, large disc-like sections, greasy, buff with dark red laminations.
135.0'	141.0'	3763	Kss - with dried buff clay interbeds-competent, interbedded with medium

			grain, medium brown kss, first foot is sandy clay grading to kss.
141.0'	143.0'	3764	Clay - competent, fissile, buff, rare yellow laminations at the upper footages, carbonaceous.
143.0'	149.0'	3765	Kss - medium grain, light grey, haematite staining due to drilling debris.
149.0'	153.0'	3766	Sandy Clay - competent, fissile, fine grain, buff, darkening downsection to near black with darker laminations, minor illite.
153.0'	158.0'	3767	Kss - medium grain, dark brown, drilling debris.
158.0'	160.0'	3768	Sandy Clay grading to clay - 159.0' - 159.5' - slightly carbonaceous, competent, fissile, chocolate brown from 158.0' - 159.0', medium brown, 159.0' - 159.5' - medium brown and yellow/green mottled, illitic in the chocolate portion.
160.0'	163.0'	3769	Sandy Clay - competent, disc-like, some areas are fissile, buff with a few darker brown and yellow seams, minor illite, drilling debris.
163.0'	166.0'	3770	Sandy Clay - as above.
166.0'	170.0'	3771	Sandy Clay - competent, fissile, buff, rare darker laminations, minor illite, drilling debris.
170.0'	174.0'	3772	Kss - medium grain, light brown.
174.0'	177.0'	3773	Kss - medium grain, medium grey, drilling debris.
177.0'	181.0'	3774	Kss - medium grain, medium grey, becoming white coarse grain last foot, vari-coloured silica.
181.0'	185.0'	3775	Kss - white, coarse grain as above, grading to medium grain, yellow brown, drilling debris.

EOH - 185.0'

Section PJ88-3

Claim No.: P 825794
Hole Length: 185.0'
Overburden Depth: 86.0'
Astronomic Azimuth: 50° 08' 50" N, 82° 09' 15" N
Location: 100.0' at 245° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: BL 00 N
Easting: 5100 E
Dip: -90°

50.0'

Gridline 5100

Section PJ88-3

Claim No.: P 825794
Hole Length: 185.0'
Overburden Depth: 86.0'
Astronomic Azimuth: $50^{\circ} 08' 50''$ W. $82^{\circ} 09' 15''$ N
Location: 100.0' at 245° to claim post no. 1
Scale: $1.0'' = 50.0'$ or 1:600
Northing: BL 00 N
Easting: 5100 E
Dip: -90°



50.0'

Gridline 5100

PJ 88-3

Silty Clay

Till

Silty Clay

Till

KSS

Clay(gry,brn)
KSS
Clay(gry-brn)
KSS
Clay(lt gry,ck gry)
KSS
Clay(dk gry,gry)
Clay(brn-gry)

KSS

Section PJ88-3

Claim No.: P 825794

Hole Length: 185.0'

Overburden Depth: 86.0'

Astronomic Azimuth: 50° 08' 50" N, 82° 09' 15" N

Location: 100.0' at 245° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: BL 00 N

Easting: 5100 E

Dip: -90°



Gridline 5100

PJ88-3

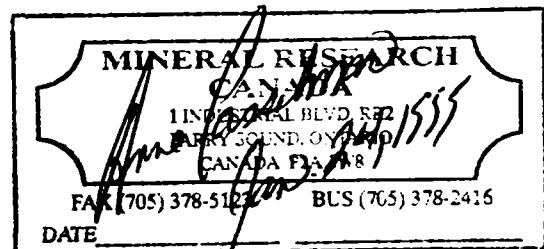
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ROTARY DRILL HOLE RECORD

Drilling Started: Mar. 17, 1989 Logged By: A. Casselman
 Drilling Finished: Mar. 18, 1989 Logged: May 2, 1989
 Drilling Co.: Midwest Core Size: 3.5"
 Dip: -90° Core Storage:
 Hole Length: 225.0' Mineral Research Canada
 Overburden: 83.0' R. R. # 2
 Claim No.: P 900096 Parry Sound, ON
 Easting: 2800 E P2A 2W8
 Northing: 200 S Hole No.: 89-119
 Azimuth: 50° 08' 44" N, 82° 11' 20" W
 Location: 1850.0' at 225° To Claim Post No. 1
 Property: Kipling

SUMMARY			RECEIVED
From	To	Description	
0.0'	5.0'	Peat	APR 26 1995
5.0'	9.0'	Sand	MINING LANDS BRANCH
9.0'	55.0'	Glacial Clay Till	2.1595 5
55.0'	64.0'	Sand	
64.0'	79.0'	Glacial Clay Till	
79.0'	83.0'	Sand - Overburden -	Pleistocene
83.0'	115.0'	Kaolin Silica Sand (Kss)	- Cretaceous
115.0'	115.5'	Clay	
115.5'	129.0'	Kss	
129.0'	133.0'	Kss & Clay	
133.0'	140.0'	Kss	
140.0'	145.0'	Clay	
145.0'	158.0'	Sandy Clay	
158.0'	210.0'	Kss	
210.0'	212.0'	Sandy Clay	
212.0'	225.0'	Kss	



EOH - 225.0'

Detail Log - 89-119

From	To	Sample No.	Description
0.0'	5.0'		Peat
5.0'	9.0'		Sand
9.0'	55.0'		Glacial Clay Till
55.0'	64.0'		Sand
64.0'	79.0'		Glacial Clay Till - dark brown, competent, rare angular to sub-rounded clasts up to 3.0", gneissic and carbonate.
79.0'	83.0'		Sand - medium grain, coarsening downsection to 0.5" clasts, high heavies.
83.0'	90.0'	001	Kss - medium grain, coarsening downsection, white, slightly yellow, very little clay, minor illite and heavies. 5.72% kaolin.
90.0'	94.0'	002	Kss - as above, purple clots with red rims, clay seams - 0.125" , heavies banding. 4.53% kaolin.
94.0'	98.0'	003	Kss - as above. 3.39% kaolin.
98.0'	102.0'	004	Kss - as above, faintly yellow, medium grain, very low clay content, clay clots, light grey, pliable, 1.5". 1.42% kaolin.
102.0'	106.0'	005	Kss - white, medium grain, minor illite and heavies, some clay clotting and seams, medium brown, pliable. 9.24% kaolin.
106.0'	110.0'	006	Kss - white, and yellow/brown, alternating layers, as above. 6.38% kaolin.
110.0'	115.0'	007	Kss - as above, 110.0' - 114.0' - more clay-rich, medium grain. 10.28% kaolin.
115.0'	115.5'	008	Clay - medium brown, pliable, some silica content as grey laminations. 71.37% kaolin.

115.5'	121.0'	009 Kss - very fine grain, high moisture content, minor illite and heavies, fine seams of clay, polydrill. 11.16% kaolin.
121.0'	125.0'	Kss - medium grain, light grey, minor heavies and illite.
125.0'	129.0'	Kss - as above.
129.0'	133.0'	Kss & Clay - 129.0' - 131.0' - kss - medium grain, light brown to 131.0' - 132.0', clay - competent, disc-like, greasy, medium brown, some silty sections, 132.0' - 133.0' - kss - as above.
133.0'	137.0'	Kss - fine grain, light brown, much exterior contamination.
137.0'	140.0'	Kss - medium grain, white, darkening downsection to medium grain, dried.
140.0'	145.0'	Clay - competent, disc-like, greasy, medium brown, moist.
145.0'	149.0'	Sandy Clay - competent, fissile to crumbly downsection.
149.0'	154.0'	Sandy Clay - medium grain, competent, medium brown, moist.
154.0'	158.0'	Sandy Clay - as above, some areas of clay enrichment.
158.0'	163.0'	Kss - medium grain with numerous coarser rounded clasts, smoky quartz, up to 0.5", minor heavies and illite.
163.0'	167.0'	Kss - as above.
167.0'	171.0'	Kss - medium grain, as above, numerous coarser clasts, medium grey with some light grey banding, vari-coloured silica, high amounts of heavies in bands as a well as dispersed.
171.0'	175.0'	Kss - medium grain, as above, medium brown, some yellow exterior crystal growth, dried.
175.0'	180.0'	Kss - medium grain, rare coarser clasts, white, some yellow brown, contaminations, minor clay seam of 1.0" at 178.25', medium brown, minor heavies and illite.
180.0'	185.0'	Kss - medium grain, rare coarser smoky quartz, white, some minor light grey clay seams, minor

heavies and illite.

185.0'	189.0'	Kss - as above, no clay seams.
189.0'	193.0'	Kss - medium grain, light brown, minor illite and heavies.
193.0'	197.0'	Kss - as above, dried.
197.0'	201.0'	Kss - as above.
201.0'	204.0'	Kss - coarse grain, some medium grain matrix, light brown, dried.
204.0'	207.0'	Kss - coarse grain, in a medium grain matrix, medium brown, vari-coloured silica, dried.
207.0'	212.0'	Sandy Clay - competent, disc-like, light grey, minor illite.
212.0'	215.0'	Kss - fine grain, medium grey/brown, minor heavies and illite.
215.0'	220.0'	Kss - medium grain, frequent coarse clasts, medium yellow/brown, minor heavies and illite.
220.0'	225.0'	Kss - as above, white.

EOH - 225.0'

Section 89-119

Claim No.: P 900096

Hole Length: 225.0'

Overburden Depth: 83.0'

Astronomic Azimuth: $50^{\circ} 08' 44''$ W. $82^{\circ} 11' 20''$ N

Location: 1850.0' at 225° to claim post no. 1

Scale: $1.0'' = 50.0'$ or 1:600

Northing: 200 S

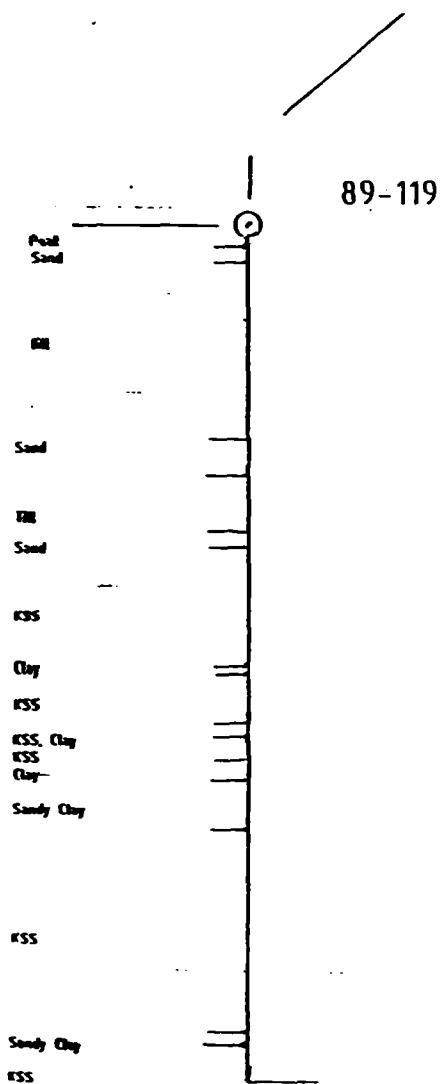
Easting: 2800 E

Dip: -90°



50.0'

Gridline 2800



Section 89-119

Claim No.: P 900096

Hole Length: 225.0'

Overburden Depth: 83.0'

Astronomic Azimuth: 50° 08' 44" W. 82° 11' 20" N

Location: 1850.0' at 225° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 200 S

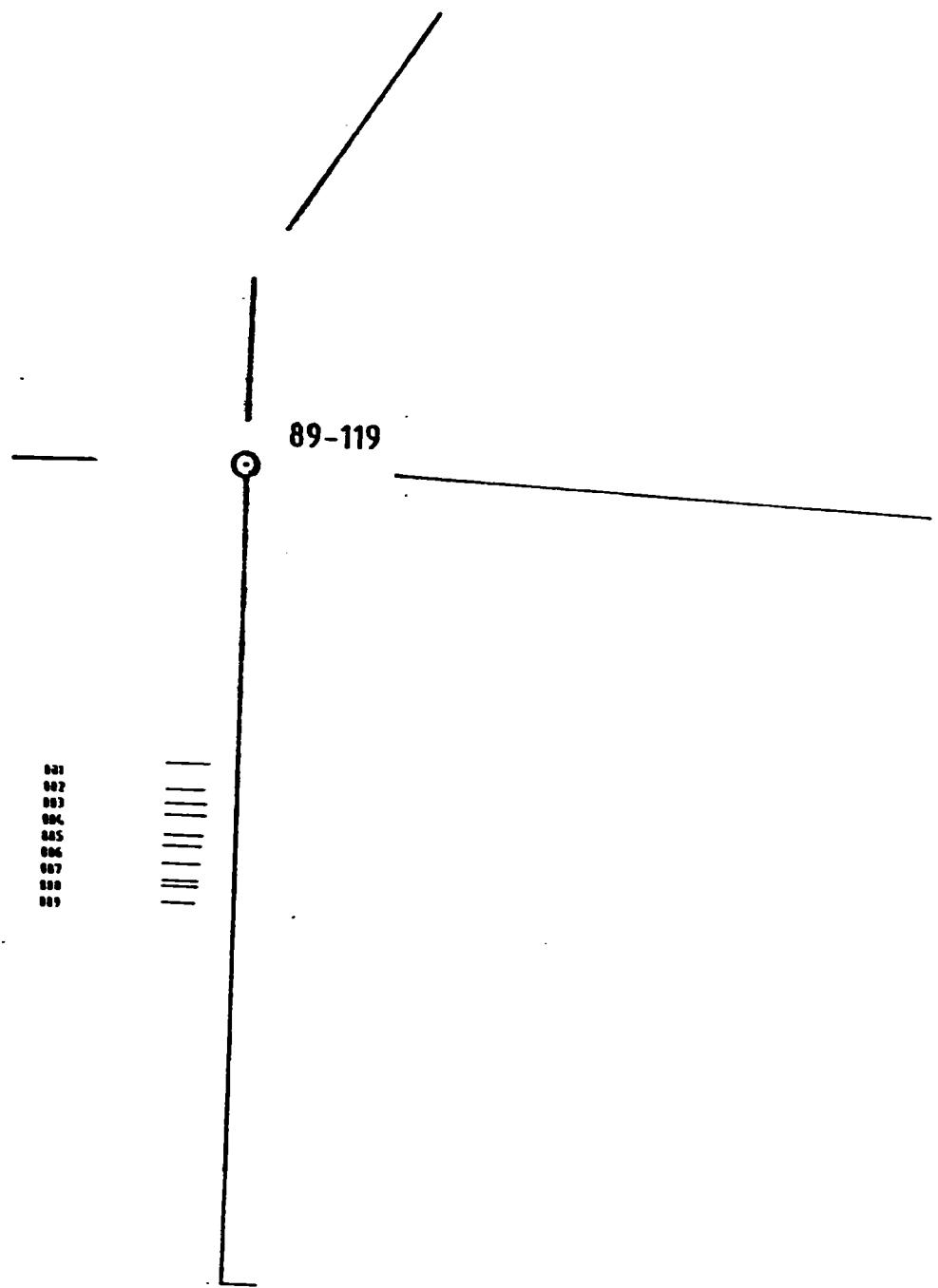
Easting: 2800 E

Dip: -90° |



50.0'

Gridline 2800



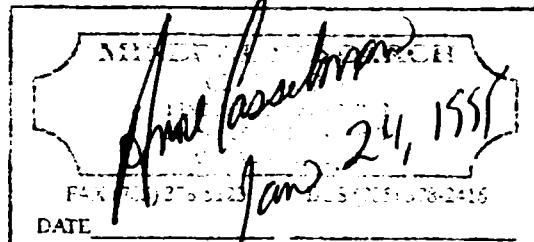
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ROTARY DRILL HOLE RECORD

Drilling Started: Mar. 17, 1989 Logged By: A. Casselman
Drilling Finished: Mar. 17, 1989 Logged: May 3, 1989
Drilling Co.: Midwest Core Size: 3.5"
Dip: -90° Core Storage:
Hole Length: 251.0' Mineral Research Canada
Overburden Depth: 82.5' R. R. # 2
Claim No.: P 900096 Parry Sound, ON
Easting: 3000 E P2A 2W8
Northing: 010 S Hole No.: 89-120
Azimuth: 50° 08' 49" N, 82° 11' 11" W
Location: 950.0' at 223° To Claim Post No. 1
Property: Kipling

SUMMARY

From	To	Description	RECEIVED
0.0'	12.0'	Peat	APR 26 1995
12.0'	14.0'	Sand	MINING LANDS BRANCH
14.0'	70.0'	Glacial Sandy Clay Till	2.15955
70.0'	83.5'	Sand	- Overburden - Pleistocene
82.5'	90.0'	Kaolin Silica Sand (Kss)	Cretaceous
90.0'	91.5'	Glacial Clay Till	
91.5'	93.0'	Kss	
93.0'	99.0'	Clay	
99.0'	126.0'	Kss	
126.0'	133.5'	Clay	
133.5'	153.0'	Kss	
153.0'	161.0'	Clay	
161.0'	166.0'	Sandy Clay	
166.0'	251.0'	Kss	



EOH - 251.0'

Detail Log - 89-120

From	To	Sample No.	Description
0.0'	12.0'		Peat
12.0'	14.0'		Sand
14.0'	70.0'		Glacial Sandy Clay Till - medium grain, dark brown, 4.0" Precambrian clasts.
70.0'	83.5'		Sand
82.5'	85.0'	051	Kss - dark grey, poor quality, medium grain, some lighter patches. 9.01% kaolin.
85.0'	90.0'	052	Kss - medium grain, medium grey, grey pliable 1.0" clay seam at 89.0' - purple & brown seam, minor illite and heavies banding. 11.72% kaolin.
90.0'	91.5'		Glacial Material - as above.
91.5'	93.0'	053	Kss - medium grey, coarse grain. 14.76% kaolin.
93.0'	99.0'	054	Clay - sandy, buff grading into and interbedded with chocolate brown, pliable clay from 94.0' - gradationally darker, more greasy and competent to black from 94.0' - 97.5', 97.5' - 99.0' - chocolate brown. 46.38% kaolin.
99.0'	102.0'	055	Kss - coarse and medium grain alternating units, white, minor illite and heavies. 8.51% kaolin.
102.0'	106.0'	056	Kss - as above. 7.92% kaolin
106.0'	110.0'	057	Kss - as above, light grey clay clots pliable - 0.5", dark brown seams, 109.0' - 110.0' - medium brown. 15.06% kaolin.
110.0'	116.0'	058	Kss - fine grain, white, minor illite and heavies. 8.89% kaolin.
116.0'	121.0'	059	Kss - as above, convolute heavies banding. 8.25% kaolin.
121.0'	126.0'		Kss - medium grain, white, pink/purple mould,

		exterior crystal growth, entire hole dried.
126.0'	133.5'	Clay - competent, disc-like, some silty content, medium brown, minor illite, exterior kss contamination.
133.5'	136.0'	Kss - fine grain, white.
136.0'	141.0'	Kss - medium grain, white.
141.0'	146.0'	Kss - as above.
146.0'	153.0'	Kss - coarse grain in a medium grain matrix, light brown, vari-coloured silica, 146.0' - 149.0', 149.0' - 151.0' - fine grain with a garnetiferous seam & 2 clasts of 1.5" faceted garnet & silica - medium grain, as at 89-30 & 92-4, seam at 150.5' - also clay-enrichment at lower contact (Lakefield Research report July 1993 states inhomogeneity of grains & multicomponent mineral aggregates).
153.0'	156.0'	Clay - competent, medium brown, yellow mottled, carbonaceous.
156.0'	161.0'	Clay - silty, illitic, grading to buff sandy clay, competent, fissile grading to buff clay.
161.0'	166.0'	Sandy Clay - as above, pink/purple mould spotting.
166.0'	171.0'	Kss - medium grain, white, minor heavies.
171.0'	176.0'	Kss - as above.
176.0'	181.0'	Kss - medium grain, rare coarser sub-rounded smoky quartz, light grey, moist, minor illite and heavies.
181.0'	186.0'	Kss - coarse grain in a medium grain matrix, light grey.
186.0'	191.0'	Kss - as above.
191.0'	196.0'	Kss - coarse grain in a medium grain matrix, vari-coloured silica, light grey.
196.0'	201.0'	Kss - medium grain, white.
201.0'	206.0'	Kss - medium grain, white, as above.
206.0'	211.0'	Kss - as above.
211.0'	216.0'	Kss - as above.

216.0' 221.0' Kiss - coarse grain in a medium grain matrix,
light brown.

221.0' 226.0' Kiss - medium grain with frequent coarse clasts,
light brown.

226.0' 231.0' Kiss - as above.

231.0' 236.0' Kiss - medium grain, light grey, as above.

236.0' 241.0' Kiss - as above.

241.0' 246.0' Kiss - coarse grain, light grey.

246.0' 251.0' Kiss - as above.

EOH - 251.0'

Section 89-120

Claim No.: P 900096

Hole Length: 251.0'

Overburden Depth: 82.5'

Astronomic Azimuth: 50° 08' 49" N, 82° 11' 11" W

Location: 950.0' at 223° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 010 S

Easting: 3000 E

Dip: -90°

50.0'

Gridline 3000

Section 89-120

Claim No.: P 900096

Hole Length: 251.0'

Overburden Depth: 82.5'

Astronomic Azimuth: $50^{\circ} 08' 49''$ W. $82^{\circ} 11' 11''$ N

Location: 950.0' at 223° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 010 S

Easting: 3000 E

Dip: -90°



50.0'

Gridline 3000

ELEV.

89-120

Peat

Sand

Till

Sand

Kss

Till

Kss

Clay

Kss

Clay

Sandy C.

Kss

Section 89-120

Claim No.: P 900096

Hole Length: 251.0'

Overburden Depth: 82.5'

Astronomic Azimuth: 50° 08' 49" N, 82° 11' 11" W

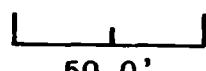
Location: 950.0' at 223° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 010 S

Easting: 3000 E

Dip: -90°



Gridline 3000

89-120

151
152
153
154
155
156
157
158
159

A vertical profile diagram. On the left, there is a column of numbers from 151 to 159. To the right of these numbers are three groups of horizontal lines of increasing length, representing different segments of the borehole profile. A vertical line connects the top of the first group to the point labeled "89-120".

000100

ROTARY DRILL HOLE RECORD

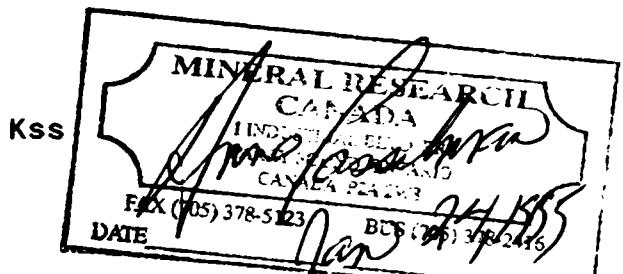
Drilling Started: Feb. 12, 1989 Logged By: A. Casselman
Drilling Finished: Feb. 12, 1989 Logged: April 6, 1989
Drilling Co.: Midwest Core Size: 3.5"
Dip: -90° Core Storage:
Hole Length: 150.0' Mineral Research Canada
Overburden Depth: 111.0' R. R. # 2
Claim No.: P 1089038 Parry Sound, ON
Easting: 11800 E P2A 2W8
Northing: 800 N Hole No.: 89-212
Azimuth: 50° 09' 12" N, 82° 02' 56" W
Location: 1150.0' at 269° To Claim Post No. 1
Property: 89-212

SUMMARY

From	To	Description
------	----	-------------

0.0'	4.75'	Peat
4.75'	47.0'	Glacial Clay Till
47.0'	54.25'	Sand
54.25'	57.0'	Glacial Clay Till
57.0'	73.0'	Sand
73.0'	94.0'	Glacial Clay Till
94.0'	107.0'	Sand
107.0'	111.0'	Glacial Clay Till - Overburden - Pleistocene

111.0'	123.0'	Clay	-	Cretaceous
123.0'	125.0'	Sandy Clay		
125.0'	130.0'	Clay & Sandy Clay		
130.0'	133.0'	Clay		
133.0'	135.0'	Clay, Sandy Clay & Kss		
135.0'	138.0'	Kss		
138.0'	140.0'	Clay		
140.0'	145.0'	Clay & Lignite		
145.0'	150.0'	Clay		



EOH - 150.0'

Detail Log - 89-212

From	To	Sample No.	Description
0.0'	4.75'		Peat
4.75'	47.0'		Glacial Clay Till - green/grey, fine grain silt in some sections, competent, massive, 2.0" sand layer at upper contact, in silt-free sections, 10.0 - 15.0% carbonate clasts and 10.0% gneissic clasts up to 1.5".
47.0'	54.25'		Sand - green/grey, fine grain sand, numerous larger clasts (10.0 - 15.0%) throughout, generally 0.25", predominantly carbonate lithologies & 30.0% gneissic clasts.
54.25'	57.0'		Glacial Clay Till - as previous, 55.0' - 55.24' - granitic boulder.
57.0'	73.0'		Sand - green/grey, poorly sorted, medium grain, approximately 85.0% silica, remainder exotics, approximately 10.0% larger clasts.
73.0'	94.0'		Glacial Clay Till - as previous, 90.5' - 90.75' - sand seam.
94.0'	107.0'		Sand - gravel for first foot - very light green, clay-rich zone with coarse clasts up to 0.25", occasional organic layers, 103.25' - 104.0' - silty clay layer.
107.0'	111.0'		Glacial Clay Till - fissile, fine grain, yellow/brown, contact zone with Cretaceous.
111.0'	114.0'	16551	Clay - competent, fissile, light grey & yellow mottled to medium yellow to yellow/brown, highly overburden contaminated, calcareous, 67.22% kaolin.
114.0'	119.0'	16552	Clay - silica contamination is high, competent, conchoidal fracture, light grey, garnetiferous at 115.0', highly overburden contaminated, calcareous, 69.82% kaolin.
119.0'	123.0'	16553	Clay - competent, disc-like, fissile

			at upper contact, light grey at 119.0', haematite staining, red & yellow, parted concentrations of overburden, calcareous, 66.10% kaolin.
123.0'	125.0'	16554	Sandy Clay - competent, disc-like, light grey at 124.5' - 2.0" thick drill cut phaneritic sandstone, medium brown, small black crystals, very haematite stained, red on 2 sides, 53.32% kaolin.
125.0'	128.0'	16555	Clay - competent, fissile, increasing downsection, medium brown, grading to chocolate, 73.57% kaolin.
128.0'	130.0'	16556	Clay - grading to Sandy Clay - competent, disc-like with yellow laminations, sulphureous, carbonaceous and illitic material in sandy clay, sulphureous smell, exterior crystal growth, 66.05% kaolin.
130.0'	133.0'	16557	Clay - competent, fissile, chocolate brown, 73.80% kaolin.
133.0'	135.0'	16558	Clay to Sandy Clay to Kss - competent to very fissile, fine grain kss, chocolate brown, sulphureous smell, exterior crystal growth, 62.43% kaolin.
135.0'	137.0'	16559	Kss - grading to clay - competent, medium grain, chocolate brown, sulphureous smell, 23.11% kaolin.
137.0'	140.0'	16560	Clay - fissile, medium brown, with rare red laminations, some yellow haematitic staining, entire hole has much flowage from bag into box, 77.85% kaolin.
140.0'	145.0'	16561	Clay to Lignite to Clay - competent, disc-like, to fissile lignite to competent, disc-like chocolate brown to black/brown lignite to dark grey/brown with red and yellow haematitic laminations, exterior crystal growth on lignite fragments, 69.29% kaolin.
145.0'	150.0'	16562	Clay - as above, less carbonaceous and haematitic areas, much organic growth, 53.22% kaolin.

EOH - 150.0'

Section 89-212

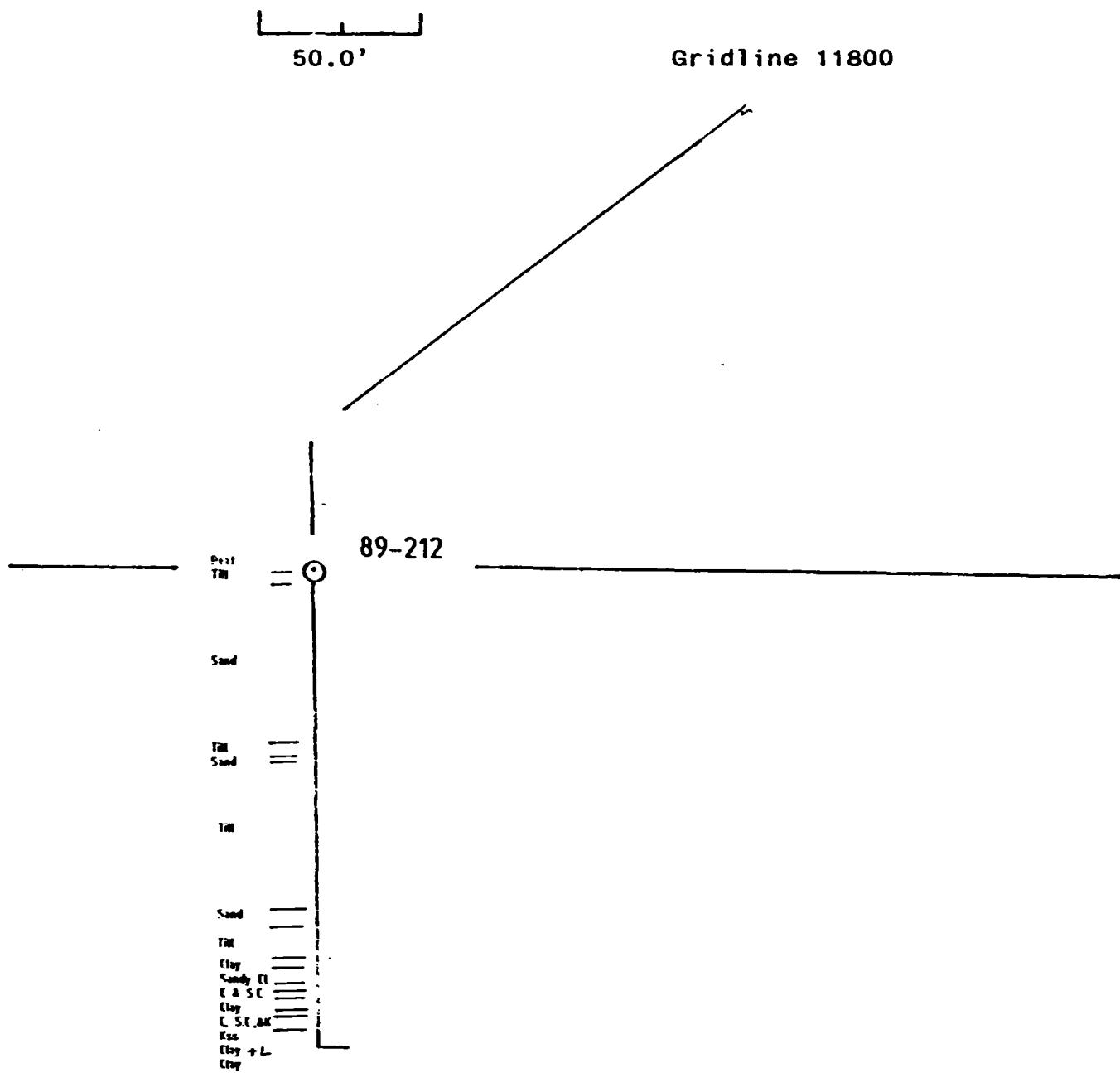
Claim No.: P 1089037
Hole Length: 150.0'
Overburden Depth: 111.0'
Astronomic Azimuth: 50° 09' 12" W. 82° 02' 56" N
Location: 1150.0' at 269° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 800 N
Easting: 11800 E
Dip: -90°

50.0'

Gridline 11800

Section 89-212

Claim No.: P 1089037
Hole Length: 150.0'
Overburden Depth: 111.0'
Astronomic Azimuth: $50^{\circ} 09' 12''$ N, $82^{\circ} 02' 56''$ W
Location: 1150.0' at 269° to claim post no. 1
Scale: $1.0'' = 50.0'$ or 1:600
Northing: 800 N
Easting: 11800 E
Dip: -90°



Section 89-212

Claim No.: P 1089037

Hole Length: 150.0'

Overburden Depth: 111.0'

Astronomic Azimuth: 50° 09' 12" N, 82° 02' 56" W

Location: 1150.0' at 269° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 800 N

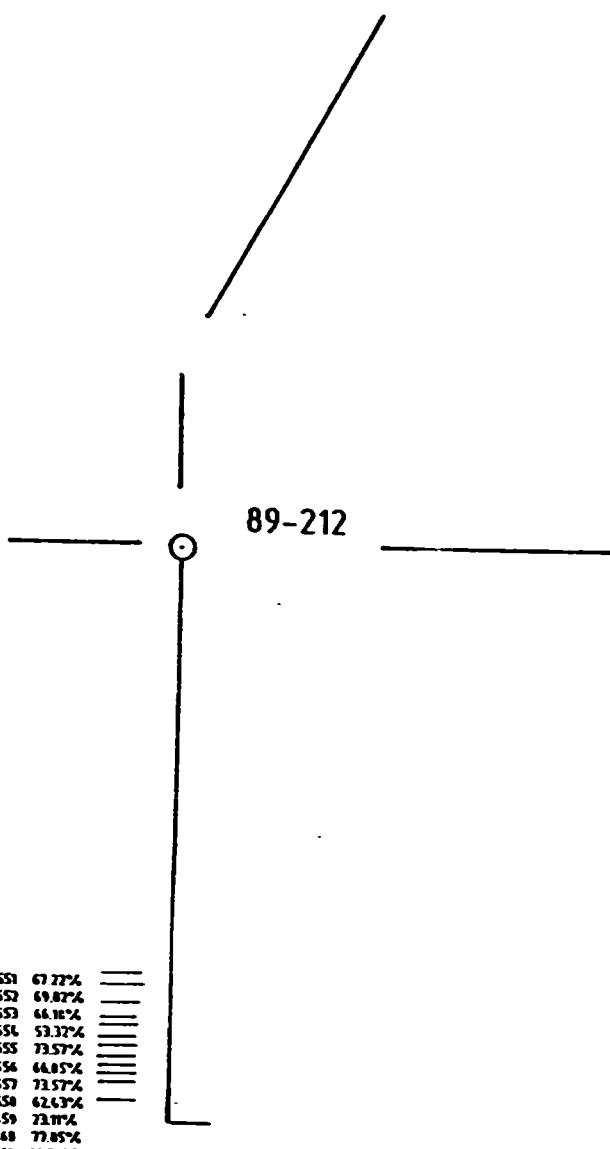
Easting: 11800 E

Dip: -90°



50.0'

Gridline 11800



000100

ROTARY DRILL HOLE RECORD

Drilling Started: Feb. 17, 1989 Logged By: A. Casselman
Drilling Finished: Feb. 18, 1989 Logged: Feb. 19, 1991
Drilling Co.: Midwest Core Size: 3.5"
Dip: -90° Core Storage:
Hole Length: 217.0' Mineral Research Canada
Overburden Depth: 111.0' R. R. # 2
Claim No.: P 1089038 Parry Sound, ON
Easting: 9400 E P2A 2W8
Northing: 800 N Hole No.: 89-213
Azimuth: 50° 09' 12" N, 82° 05' 11" W
Location: 1770.0' at 222° To Claim Post No. 1
Property: Emerson

SUMMARY

From	To	Description	
0.0'	1.0'	Peat	
1.0'	106.0'	Glacial Clay Till	MINING LANDS BRANCH
106.0'	111.0'	Contact Zone- Overburden/Pleistocene-Cretaceous	

111.0'	124.0'	Kaolin Silica Sand (Kss)	Cretaceous
124.0'	132.0'	Clay	
132.0'	137.0'	Clay & Sandy Clay	
137.0'	141.0'	Sandy Clay	
141.0'	164.0'	Kss	
164.0'	165.0'	Sandy Clay	
165.0'	168.0'	Kss	
168.0'	171.0'	Kss & Sandy Clay	
171.0'	173.0'	Kss	

173.0' 179.0' Clay & Sandy Clay

179.0' 186.0' Clay

186.0' 190.0' Clay & Sandy Clay

190.0' 196.0' Kss

196.0' 199.0' Kss & Sandy Clay

199.0' 203.0' Clay & Sandy Clay

203.0' 206.0' Clay

206.0' 212.0' Clay & Sandy Clay

212.0' 214.0' Clay

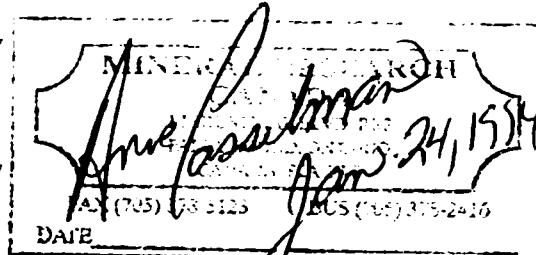
214.0' 217.0' Sandy Clay

RECEIVED

APR 26 1995

MINING LANDS BRANCH

2.15955



EOH - 217.0'

Detail Log - 89-213

From	To	Sample No.	Description
0.0'	1.0'		Peat
1.0'	106.0'		Glacial Clay Till - competent, calcareous, green/brown, 1.0' - 9.0' - yellow/brown and from 16.0 - 17.0' yellow/brown, rare (10.0%) gneissic or (3.0 - 5.0%) carbonate clast up to 0.5", some silty sections.
106.0'	111.0'		Contact Zone - 106.0' - 109.0' - Kss contact - 109.0' - 111.0' - kss - medium grain, yellow/brown, poor quality, containing a 1.0" fine grain, dark brown, low density sub-rounded clast, 106.0' - 107.0' - chocolate brown, with pink zeolite-like alterational pockets, 107.0' - 109.0' - medium grey, high amounts if amphibole clasts.
111.0'	116.0'	15651	Kss - medium grain, grading to coarse grain, medium grey at upper contact grading to white darker again at lower contact.
116.0'	124.5'	15652	Kss - coarse grain, light brown, lower contact medium grey.
124.5'	126.0'	15653	Clay - minor silica content along fine laminations, competent, greasy, medium brown some yellow laminations, minor illite, sulphureous.
126.0'	132.0'	15654	Clay - competent, pliable, chocolate brown, with lighter laminations, carbonaceous.
132.0'	137.0'	15655	Clay & Sandy Clay - interbedded, competent, fine grain, chocolate brown sandy clay interbedded with chocolate brown clay as above.
137.0'	139.0'	15656	Sandy Clay - lighter areas contain less clay, pliable, fine grain, chocolate brown, and light brown interbedded, carbonaceous, high percentage illite.
139.0'	141.0'	15657	Sandy Clay - as above.
141.0'	144.0'	15658	Kss - medium grain, yellow and black laminated, carbonaceous, illite,

extremely high percentage illite.

- 144.0' 148.0' 15659 Kiss - medium grain, yellow black and medium brown laminations, high illite and sulphureous smell.
- 148.0' 151.0' 15660 Kiss - as above, more brown.
- 151.0' 156.0' 15661 Kiss - one area of Sandy Clay at 155.0' - 4.0" - medium brown, with large well rounded smoky quartz, kss - medium grain, medium brown.
- 156.0' 160.0' 15662 Kiss - low clay content, medium grain, light brown, large percentage heavies.
- 160.0' 164.0' 15663 Kiss - medium grain, coarsening downsection, light brown, darkening downsection.
- 164.0' 165.0' 15664 Sandy Clay - pliable, fine grain, medium brown and black, carbonaceous.
- 165.0' 168.0' 15665 Kiss - fine grain grading to medium grain, light brown, darkening downsection to dark brown.
- 168.0' 171.0' 15666 Kiss & Sandy Clay - interbedded, sandy clay - pliable, medium grain, kss both medium brown carbonaceous and illite material in sandy clay.
- 171.0' 173.0' 15667 Kiss - high clay content, medium grain, light brown, minor illite.
- 173.0' 176.0' 15668 Clay & Sandy Clay - interbedded - competent, disc-like, fine grain, sandy clay - medium brown, carbonaceous, large pieces horizontally bedded but randomly oriented.
- 176.0' 179.0' 15669 Sandy Clay - grading to clay - pliable, chocolate brown, some darker areas, carbonaceous material in clay, high illite in sandy clay.
- 179.0' 183.0' 15670 Clay - competent, disc-like, greasy, chocolate brown grading to black, carbonaceous.
- 183.0' 186.0' 15671 Clay - competent, disc-like, chocolate brown, carbonaceous, large competent fibrous pieces.
- 186.0' 190.0' 15672 Clay & Sandy Clay - gradational from clay

- to sandy clay near 188.0' - pliable, fine grain, sandy clay, gradational from chocolate brown to light brown, both carbonaceous.
- 190.0' 193.0' 15673 **Kss** - clay-rich grading to clay-poor, medium grain, chocolate brown grading downsection to medium brown, carbonaceous, high percentage illite lessening downsection.
- 193.0' 196.0' 15674 **Kss** - medium grain, dark grey.
- 196.0' 199.0' 15675 **Kss & Sandy Clay** - **kss** - grading to sandy clay near 197.5', pliable sandy clay, **kss** - fining downsection to fine grain, chocolate brown, carbonaceous seams as well as fragments, minor illite and sulphureous smell.
- 199.0' 203.0' 15676 **Clay & Sandy Clay** - sandy clay grading to clay, competent grading to pliable, fine grain, sandy clay, medium brown grading to chocolate brown, carbonaceous areas.
- 203.0' 206.0' 15677 **Clay** - some silty laminations, competent, disc-like, chocolate brown with lighter laminations.
- 206.0' 212.0' 15678 **Clay & Sandy Clay** - clay grading to sandy clay, pliable, grading to disc-like, competent fine grain sandy clay, chocolate brown grading to buff to chocolate brown to buff sandy clay to buff and red mottled to buff and chocolate laminations, minor illite in sandy clay.
- 212.0' 214.0' 15679 **Clay** - pliable, non-competent, chocolate brown, some yellow clots, large carbonaceous fragments.
- 214.0' 217.0' 15680 **Sandy Clay** - competent, disc-like, fine grain, chocolate brown, carbonaceous material.

EOH - 217.0'

Section 89-213

Claim No.: P 1089038
Hole Length: 217.0'
Overburden Depth: 111.0'
Astronomic Azimuth: 50° 09' 12" N, 82° 05' 11" N
Location: 1770.0' at 222° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 800 N
Easting: 9400 E
Dip: -90°

50.0'

Gridline 9400

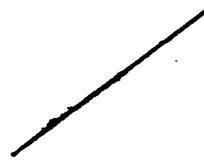
Section 89-213

Claim No.: P 1089038
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Scale: 1.0" = 50.0' or 1:600
Northing: 800 N
Easting: 9400 E
Dip: -90°



50.0'

Gridline 9400



Post

89-213

TB

Contact Zone
Kss

Clay
Clay & Sandy C
Sandy Clay
Kss

Kss & Sandy Clay
Kss
Clay & Sandy Clay
Clay
Clay & Sandy Clay
Kss
Kss & Sandy C
Clay & Sandy C
Clay
Clay & Sandy Clay
Clay
Sandy Clay

Section 89-213

Claim No.: P 1089038

Hole Length: 217.0'

Overburden Depth: 111.0'

Astronomic Azimuth: $50^{\circ} 09' 12''$ W. $82^{\circ} 05' 11''$ N

Location: 1770.0' at 222° to claim post no. 1

Scale: 1.0" = 50.0' or 1:600

Northing: 800 N

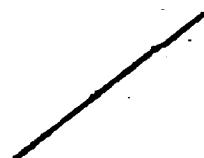
Easting: 9400 E

Dip: -90°



50.0'

Gridline 9400



89-213

TS451
TS452
TS453
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TS479

PORcupine Mining Division
Section 18 Assay 1 inch

NRD 26/85 MRY-SE REG-OPENED JULY 15/85

~~Mineral Surface Rights withdrawn
from staking, MAY 18/84, NRD 26/85~~

400' Surface rights reservation around all lakes and rivers.

Areas withdrawn from staking under Section
43 of the Mining Act, RSO 1970

Order No. File Date Disposition

THE INFORMATION THAT
APPEARS ON THIS MAP
HAS BEEN COMPILED
FROM VARIOUS SOURCES.
ACCURACY IS NOT
GUARANTEED. THOSE
WISHING TO STAKE MIN-
ING CLAIMS SHOULD CON-
SULT WITH THE MINING
REGISTERS, MINISTRY OF
NORTHERN DEVELOP-
MENT AND MINES, FOR AD-
DITIONAL INFORMATION
ON THE STATUS OF THE
LANDS SHOWN HEREON.

FLOODING RIGHTS RESERVED TO 2000 FT EACH
SIDE OF CENTRE LINE OF ADAMS CREEK
TO ONTARIO HYDRO



1995

LEGEND

CANCELLED
PATENTED LAND
CROWN LAND SALE
LEASES
LOCATED LAND
LICENSE OF OCCUPATION
MINING RIGHTS ONLY
SURFACE RIGHTS ONLY

C.P.
C.S.
L.
LOC
L.O.
M.R.O.
S.R.O.

HECLA

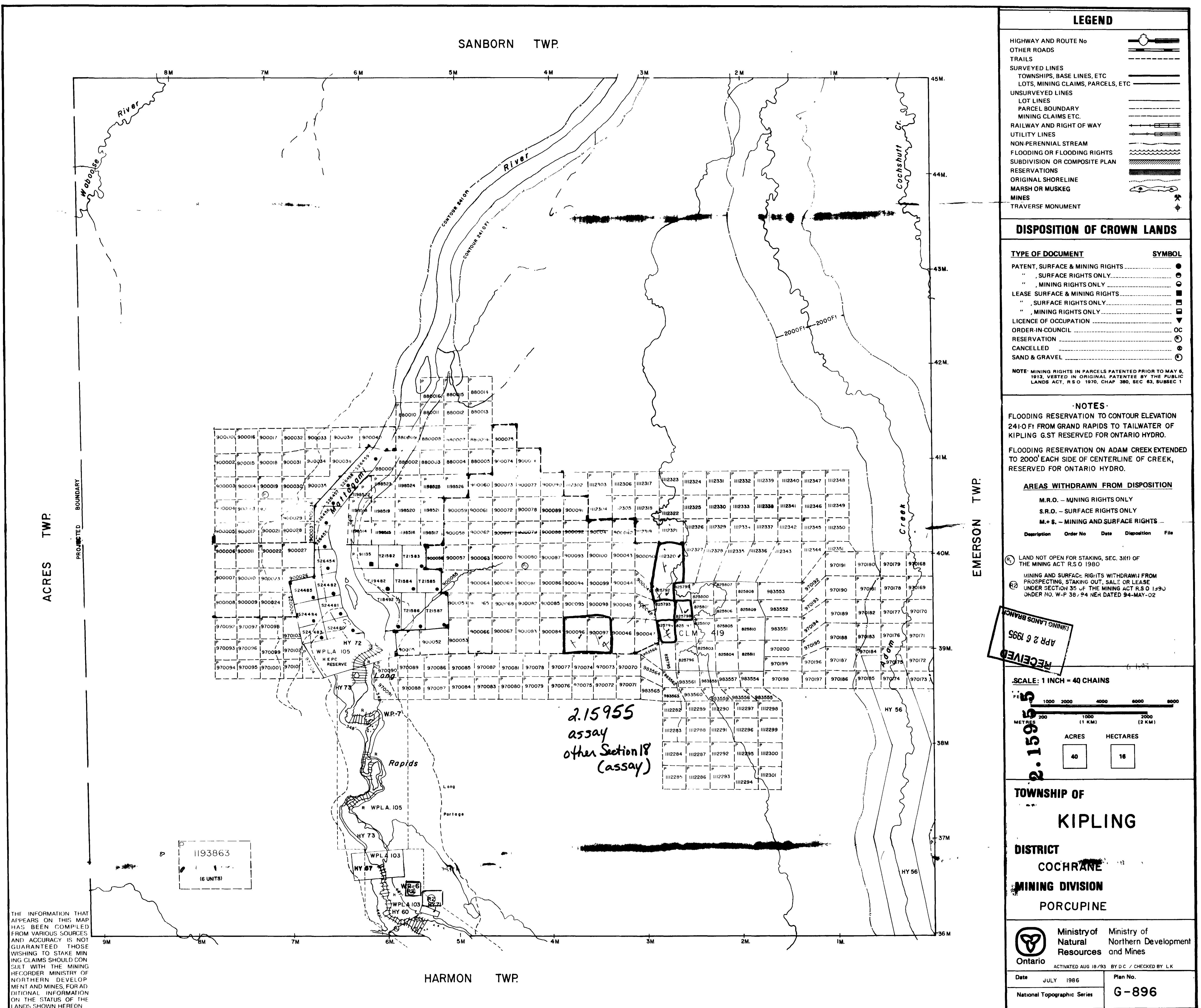
KIPLING

Adams Creek
Boundary
Run

215955
Section 18 - Assay

EXPLORATORY LICENCE
OF OCCUPATION
No. 14890

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1089073	1089077	1089081	1089085	1089089	1089093	1089097	1089099	1089103	1089107	1089111	1089115	1089119	1089123	1089127	1089131
1089074	1089078	1089082	1089086	1089090	1089094	1089098	1089099	1089103	1089107	1089111	1089115	1089119	1089123	1089127	1089131
1089075	1089079	1089083	1089087	1089091	1089095	1089099	1089101	1089105	1089109	1089113	1089117	1089121	1089125	1089129	1089133
1089076	1089080	1089084	1089088	1089092	1089096	1089098	1089100	1089104	1089108	1089112	1089116	1089120	1089124	1089128	1089132
1089077	1089081	1089085	1089089	1089093	1089097	1089099	1089101	1089105	1089109	1089113	1089117	1089121	1089125	1089129	1089133
1089078	1089082	1089086	1089090	1089094	1089098										



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN DERIVED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO MAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT, TORONTO, FOR DETAILED INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



