



Ontario



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Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
159 Cedar Street, 4th Floor
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June 24, 1991

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

2.14847

Dear Anne:

Subject: Kaolin Laboratory Work as Assessment Credit

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#	parameters			
		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 of 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
Supervisor Mining Lands Tenure
Mines & Minerals Division

BK/jl
Enclosures:

The following tests are used almost exclusively by the pulp and 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 and Sedigraph), moisture, brightness and pH. Due to the highly lensic nature of 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 to the presence of smectites (a similar clay mineral to kaolin that has a quality of expanding to up to 11 times its length in the presence of water due to hydroxide incorporation into lattice structure). Viscosity is critical in the pulp and paper industry as kaolin is almost always shipped as a slurry at 70% 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 halloysite - a tubular kaolin - is present). There are two viscosity tests, one at high shear rates and one at low shear rates. Our instrument is 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 the resistance when a spindle is rotated in a material of specified %age solids at a specific temperature. For high brightness coating grade kaolin viscosity should be 300-600 cps., regular brightness coating grade viscosity runs 200-600 cps., for water washed filler grade kaolin 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 markets are found for silica of certain sizes (e.g. - golf coarse sand is only of a particular size fraction). The silica fractionation requires 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 a sedigraph that uses an X-ray beam to measure the portion of 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 the quality is judged. Each application of kaolin has a different particle size distribution requirement. See figure 1 (particle sizes for paper), figure 2 is a typical sedigraph for ceramics. Our sedigraph results are as follows: page 1, shows tabular data of cumulative mass % finer and mass % in interval vs. diameter. Page 2 curve represents cum. mass % finer vs. equivalent spherical diameter. Page 3 columns indicates mass population (% in intervals) vs. ESD. The instrument model is a Micromeretics Sedigraph 5100.

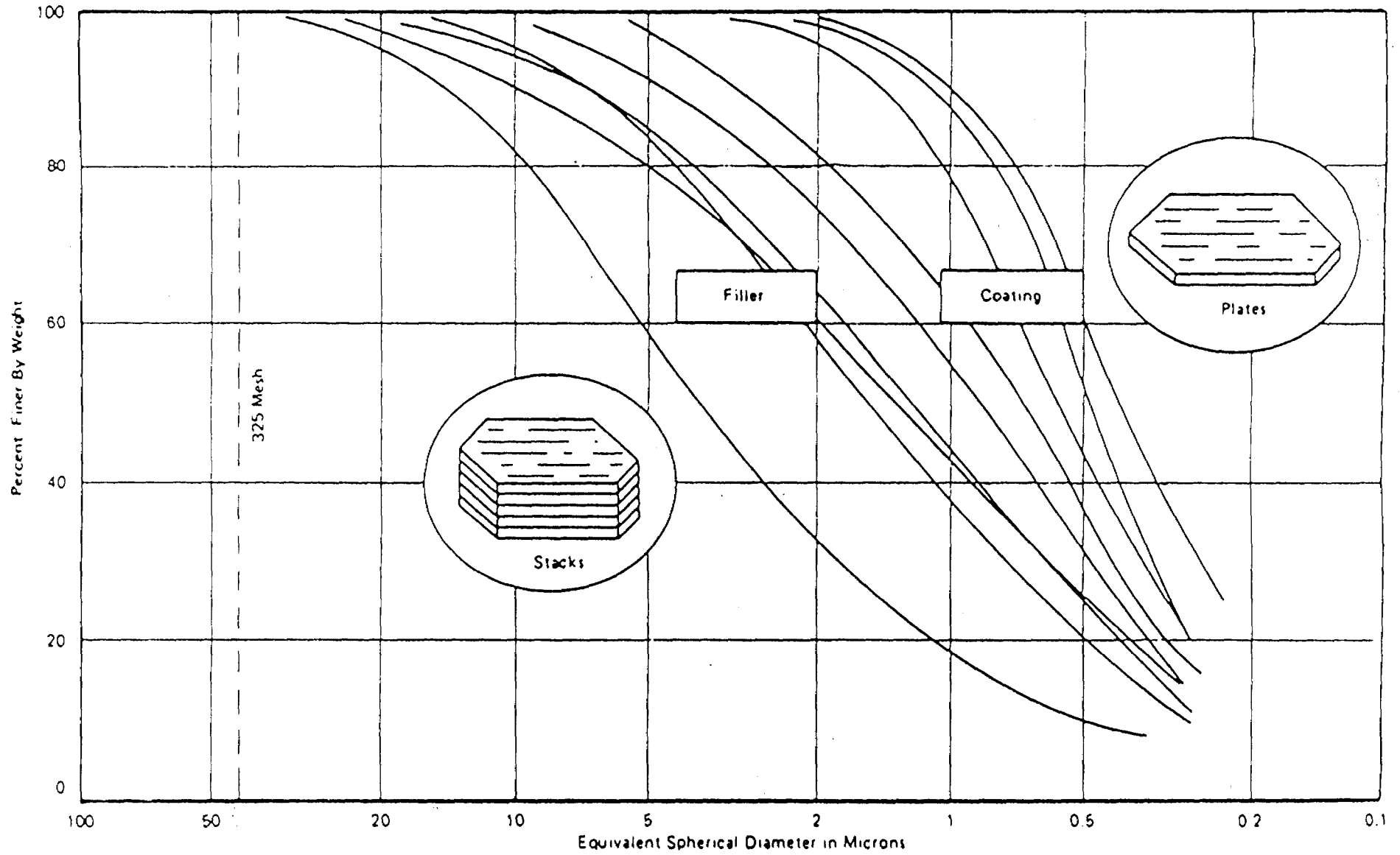
MOISTURE - determination of moisture must be done to be able to calculate the Ro-Tap screen fractions (% of total dry material).

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 brightness must be high to provide a good reflectance, opacity and gloss. Our instrument Technibrite Micro TB - 1C is fully automatic microprocessor based instrument 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 a 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 possible chemical loading in a final product - most kaolin is shipped as a pH of 4, the material from the Moose River deposit is alkaline. Accumet 910 pH 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 have 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 abrasive materials cause excessive wear on apparatus when producing paper. The instrument used is Einlehner AT 1000. Dry kaolin (100g) is mixed with 300 mls of water, agitated 5 min., flushed with 700 mls of water, pH adjusted. The standard duration of the test is 2 hrs. The abrasion of the test is measured as loss in weight g/m^2 suffered by standard test screen having an abrasion area of $305 mm^2$. For regular and high brightness coating grade kaolin abrasion value must be less than $65 g/m^2$ and water washed filler grade kaolin abrasion value is less than $100 g/m^2$.

KAOLIN PARTICLE SIZES FOR PAPER



SOURCE : INDUSTRIAL MINERALS AND ROCKS, 1975
FIGURE

Figure 1

SAMPLE DIRECTORY/NUMBER: DATA3 /164
 SAMPLE ID: EPK
 SUBMITTER: Tucker
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C
 BASELINE/FULL SCALE: 0/ 0 kilocounts/sec

UNIT NUMBER: 1
 START 13:48:25 10/02/90
 REPRY 14:29:13 03/09/92
 TOT RUN TIME 0:26:49
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7269 cp
 RUN TYPE: High Speed

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.20 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.05 μ m MODAL DIAMETER: 4.87 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.4	-1.4
40.00	99.7	1.7
30.00	98.4	1.3
25.00	97.4	1.0
20.00	95.5	1.9
15.00	91.9	3.6
10.00	84.2	7.7
8.00	80.4	3.8
6.00	74.6	5.8
5.00	69.8	4.9
4.00	63.8	5.9
3.00	58.1	5.7
2.00	49.5	8.6
1.50	45.5	4.1
1.00	39.5	5.9
0.80	37.1	2.4
0.60	32.1	5.1
0.50	28.1	4.0
0.40	23.1	5.1
0.30	17.5	5.6
0.20	11.9	5.6

fig. 2

SAMPLE DIRECTORY/NUMBER: DATA3 /164
SAMPLE ID: EPK
SUBMITTER: Tucker
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C
BASELINE/FULL SCALE: 0/ 0 kilocounts/sec

UNIT NUMBER: 1
START 13:48:25 10/02/90
REPRY 14:29:13 03/09/92
TOT RUN TIME 0:26:49
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7269 cp
RUN TYPE: High Speed

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

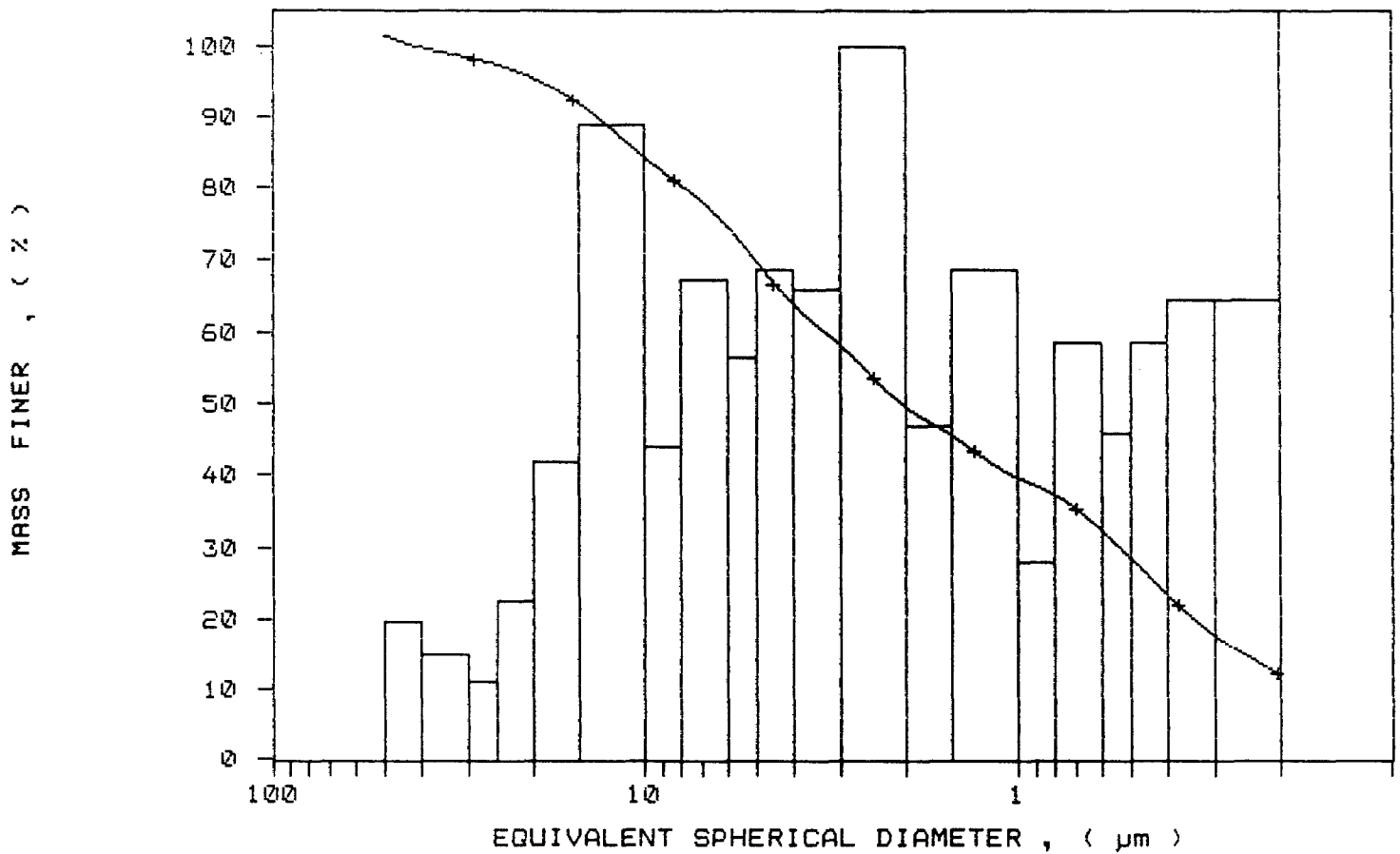


fig. 2

SAMP DIRECTORY/NUMBER: DATA3 /164
 SAMPLE ID: EPK
 SUBMITTER: Tucker
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C
 BASELINE/FULL SCALE: 0/ 0 kilocounts/sec

UNIT NUMBER: 1
 START 13:48:25 10/02/90
 REPT 14:29:13 03/09/92
 TOT RUN TIME 0:26:49
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7269 cp
 RUN TYPE: High Speed

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

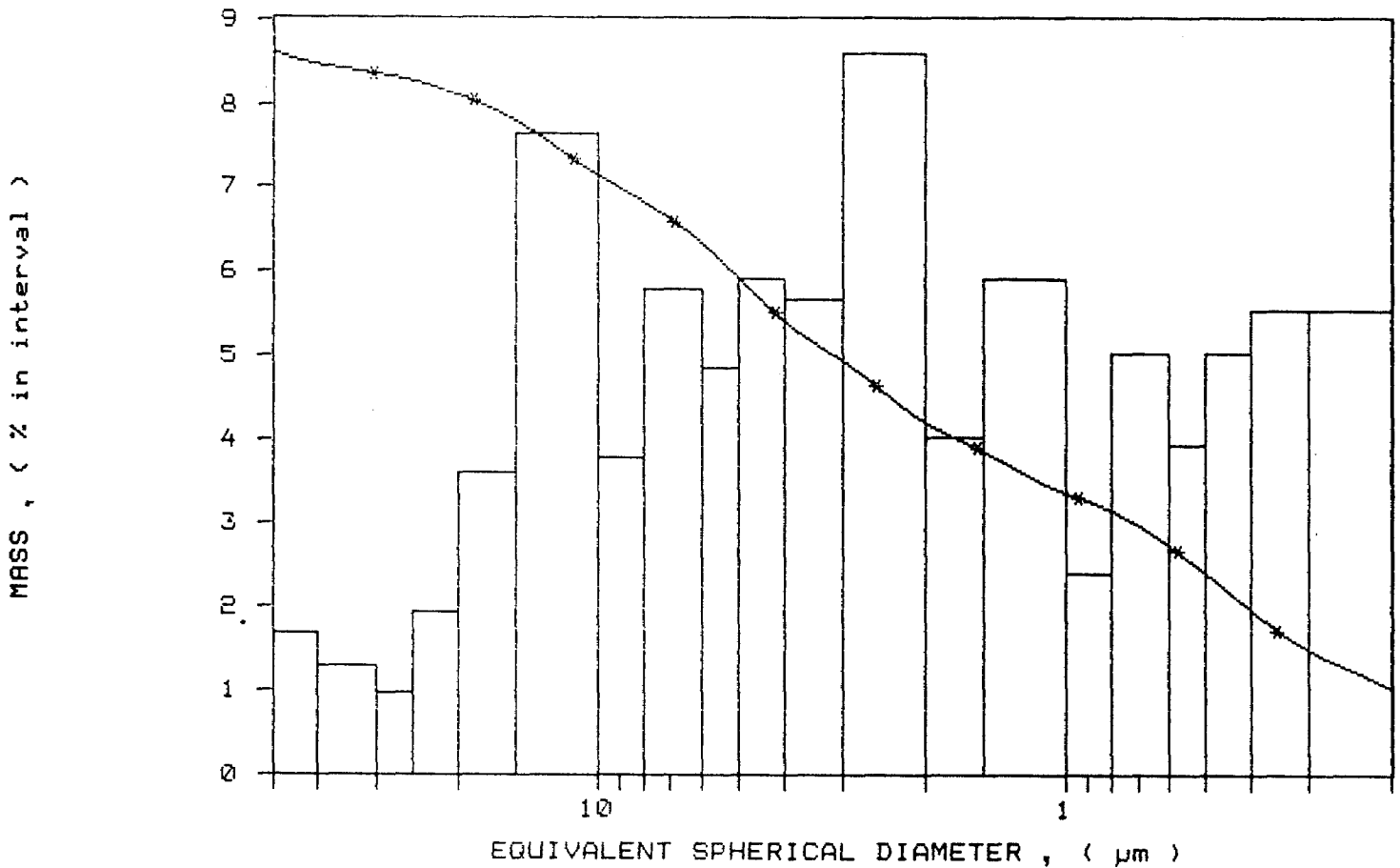


fig. 2

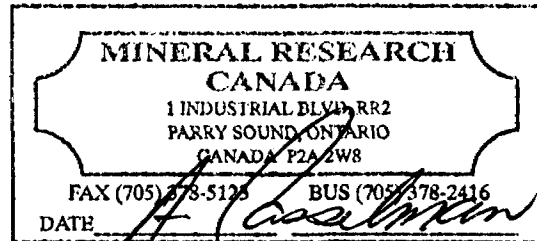
ROTARY DRILL HOLE RECORD

Drilling Started: Jan. 9, 1989
 Drilling Finished: Jan. 12, 1989
 Drilling Co.: Midwest
 Dip: -90°
 Hole Length: 250.0'
 Overburden Depth: 127.0'
 Claim No.: P 825808
 Easting: 6210 E
 Northing: 775 N
 Property: Kipling

Logged By: A. Casselman
 Logged: Feb. 8, 1991
 Core Size: 3.5"
 Core Storage:
 Mineral Research Canada
 R. R. # 2
 Parry Sound, ON
 P2A 2W8
 Hole Number: 89-4

SUMMARY

From	To	Description	
0.0'	127.0'	Glacial Clay Till - Overburden	Pleistocene
127.0'	161.5'	Kaolin Silica Sand (Kss)	Cretaceous
161.5'	163.0'	Sandy Clay	
163.0'	167.0'	Clay	
167.0'	170.0'	Sandy Clay	
170.0'	174.0'	Clay	
174.0'	185.0'	Kss	
185.0'	195.0'	Clay	
195.0'	200.0'	Sandy Clay	
200.0'	221.0'	Clay & Sandy Clay	
221.0'	228.0'	Sandy Clay	
228.0'	250.0'	Kss	



EOH - 250.0'

2.14847

Detailed Log 89-4

From	To	Sample No.	Description
0.0'	127.0'		Glacial Clay Till - calcareous, medium green/brown, very competent, some areas of kss - poor quality, coarse grain, light yellow brown, entire hole dried.
127.0'	135.0'	15551	Kss - medium grain, light grey.
135.0'	139.0'	15552	Kss - medium grain, light brown grading to medium brown.
139.0'	143.0'	15553	Kss - medium grain, light brown, buff clay seam at 139.25 - 139.5'.
143.0'	146.0'	15554	Kss - very light grey, medium grey grading through sandy clay to clay, clay - competent, disc-like grading to fissile, light grey and light yellow mottled to medium grey/brown sandy clay to medium grey kss.
146.0'	149.0'	15555	Kss - medium grain, light grey.
149.0'	153.0'	15556	Kss - coarse grain, white, much kss entirely coated with intensely coloured (purple and red) moulds.
153.0'	156.0'	15557	Kss - as above, higher clay content.
156.0'	160.0'	15558	Kss - medium grain, some coarse portions, buff.
160.0'	161.5'	15559	Kss - as above, grading to buff clay - competent.
161.5'	163.0'	15560	Sandy Clay - apparent glacial clay till - sandy calcareous with frequent large angular clasts, medium green/brown.
163.0'	167.0'	15561	Clay - competent, fissile, chocolate brown, carbonaceous, lighter brown laminations, 165.0' - 165.5' - lignite seam, black, small competent fragments.
167.0'	170.0'	15562	Sandy Clay - competent, fissile, medium brown, carbonaceous, minor illite.
170.0'	174.0'	15563	Clay - competent, disc-like, fissile, somewhat silty in areas, carbonaceous, minor illite, very dark brown.

174.0'	178.0'	15564	Kss - coarse grain, buff, exterior chocolate contamination, up to 2.0" rounded smoky quartz.
178.0'	185.0'	15565	Kss - coarse grain in a white clay matrix, vari-coloured silica, one 2.0" dolomitic siltstone clast, pitted, dark grey weathered and fresh surfaces, Devonian.
185.0'	189.0'	15566	Clay - competent, disc-like, chocolate brown, carbonaceous, 3.0" white veinal quartz clast, rounded with a cut angular surface.
189.0'	195.0'	15567	Clay - some silty sections, illitic, carbonaceous, competent, disc-like, chocolate brown.
195.0'	200.0'	15568	Sandy Clay - grading to Kss - fine grain sandy clay coarsening to fine grain kss, chocolate brown, much flowage from bag.
200.0'	205.0'	15569	Clay & Sandy Clay - alternating, competent, fissile, fine grain sandy clay, chocolate brown, minor illite.
205.0'	209.0'	15570	Clay & Sandy Clay - as above.
209.0'	213.0'	15571	Clay & Sandy Clay - as above.
213.0'	218.0'	15572	Clay & Sandy Clay - as above.
218.0'	221.0'	15573	Clay & Sandy Clay - as above.
221.0'	225.0'	15574	Sandy Clay - fissile, fine grain, chocolate brown, carbonaceous, competent.
225.0'	228.0'	15575	Sandy Clay - fissile, competent, buff, minor illite.
228.0'	232.0'	15576	Kss - fine grain, buff, minor illite, sulphureous smell.
232.0'	236.0'	15577	Kss - as above, minor heavies.
236.0'	241.0'	15578	Kss - medium grain, white, minor heavies.
241.0'	245.0'	15579	Kss - coarse grain, vari-coloured silicas, white.
245.0'	250.0'	15580	Kss - medium grain, white, minor heavies and illite, some hematitic staining.

EOH - 250.0'

Section 89-4

Length: 250.0'

Claim No.: P 825808

Overburden Depth: 127.0'

Dip: -90°

Northing: 775 N

Easting: 6210 E

Scale: 1.0" = 50.0'

- 89-4 -

Till

Kss

Sandy Cl.
Clay
Sandy Cl.
Clay

Kss

Clay
Clay & S.
Clay

Sandy Cl.

Kss

89-4

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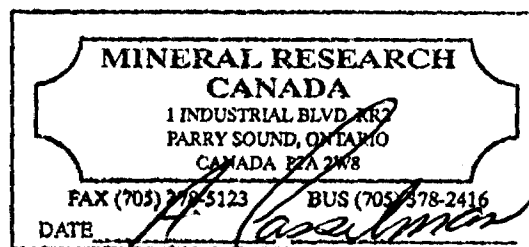
ROTARY DRILL HOLE RECORD

Drilling Started: Nov. 17, 1988
 Drilling Finished: Nov. 19, 1988
 Drilling Co.: Midwest
 Dip: -90°
 Hole Length: 222.0'
 Overburden Depth: 114.75'
 Claim No.: T 21586, Patented
 Easting: 580 N
 Northing: 390 W
 Property: Douglas/Kipling

Logged By: A. Casselman
 Logged: March 1, 1991
 Core Size: 3.5"
 Core Storage:
 Mineral Research Canada
 R. R. # 2
 Parry Sound, ON
 P2A 2W8
 Hole No.: D88-18

SUMMARY

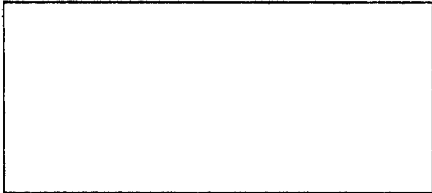
From	To	Description
0.0'	9.0'	Peat
9.0'	114.75'	Glacial Clay Till and Gravel alternating Pleistocene - Overburden
114.75'	166.0'	Kaolin Silica Sand (kss) Cretaceous
166.0'	171.0'	Clay
171.0'	172.0'	Sandy Clay
172.0'	174.0'	Clay
174.0'	175.0'	Sandy Clay
175.0'	191.0'	Clay
191.0'	195.0'	Kss
195.0'	210.0'	Clay
210.0'	212.0'	Kss
212.0'	217.0'	Clay
217.0'	218.0'	Kss
218.0'	222.0'	Clay



EOH - 222.0'

Detail Log - D88-18

From	To	Sample No.	Description
0.0'	9.0'		Peat
9.0'	110.5'		Glacial Sandy Clay Till and Gravel interbedded, till - fissile, fine grain, medium brown, Palaeozoic carbonate clasts as well as numerous kss-type silicas, calcareous with Cretaceous material interbedded near the lower contact.
110.5'	112.25'	15751	Clay - competent, fissile, light yellow and red mottled.
112.25'	114.75'		Glacial Sandy Clay Till - competent, fine grain, with large clasts up to 2.0", medium brown/green, calcareous, areas of yellow and red mottled clay.
114.75'	122.0'	15752	Kss - with a Sandy Clay seam at 118.5 - 119.0', medium grain, - fine grain after the Sandy Clay seam, medium brown grading to white grading to red, to light grey sandy clay and kss, minor illite, calcareous at upper contact.
122.0'	126.0'	15753	Kss - medium grain, dark brown, lightening downsection to white, moist, calcareous upper contact.
126.0'	130.0'	15754	Kss - medium grain, white.
130.0'	132.0'	15755	Kss - medium grain, white, some external red tinges, entire hole dried.
132.0'	136.0'	15756	Kss - with a few clay seams, medium grain, rare larger clasts, light grey clay, white kss.
136.0'	140.0'	15757	Kss - as above.
140.0'	145.0'	15758	Kss - medium grain, white.
145.0'	150.0'	15759	Kss - as above.
150.0'	151.0'	15760	Kss - medium grain, medium brown.
151.0'	155.0'	15761	Kss - medium grain with light grey and brown sections.

155.0'	157.0'	15762	Kss - as above.
157.0'	160.0'	15763	Kss - medium grain, with coarser clasts, sub-angular, smoky quartz, light grey.
160.0'	164.0'	15764	Kss - as above, with yellow chert.
164.0'	166.0'	15765	Kss - low clay content, coarse grain, red, hematitic coated spheres in red kss, white inside, sandstone-like granules.
166.0'	168.0'	15766	Clay - competent, disc-like, greasy, medium brown, to buff & red mottled, kss contaminated.
168.0'	171.0'	15767	Clay - competent, disc-like greasy, dark red with areas of medium grey laminations, to medium grey, kss contamination.
171.0'	172.0'	15768	Sandy Clay - competent, fissile, light grey, minor illite.
172.0'	174.0'	15769	Clay - competent, disc-like, dark red (near orange) and some yellow laminations.
174.0'	175.0'	15770	Sandy Clay - fine grain, yellow (medium) at upper contact to grey laminations with cross bedding.
			
175.0'	178.0'	15771	Clay - competent, fissile, medium grey/brown, carbonaceous, exterior crystal growth, much exterior red staining.
178.0'	181.0'	15772	Clay - competent, fissile, red & buff mottled.
181.0'	185.0'	15773	Clay - competent, disc-like, 3.5" , no expansion of core, red.
185.0'	191.0'	15774	Clay - competent, disc-like, buff & red mottled at 185.0' - 189.0', then red.
191.0'	195.0'	15775	Kss - grading to Sandy Clay - medium

grain, highly competent, light grey, from red, minor illite, yellow at upper contact, sulphureous smell.

195.0'	200.0'	15776	Clay - red some silica, showing flowage, mangled, dark grey to black - light grey carbonaceous.
200.0'	205.0'	15777	Clay - competent, disc-like, greasy, dark grey, darkening downsection, 3.0" of red at 202.5' - hematitic staining, yellow laminations and exterior crystal growth.
205.0'	210.0'	15778	Kss - medium grain, medium brown, moist.
210.0'	217.0'	15779	Clay - competent, disc-like, greasy, light grey mottled with darker grey, darkening downsection, carbonaceous.
217.0'	218.0'	15780	Kss - fine grain, dark red/brown, flowage from bag.
218.0'	219.0'	15781	Clay - non-competent, chunky, red/brown (dark), water saturated - an area of oily liquid.
219.0'	222.0'	15782	Clay - competent, disc-like, greasy, black.

EOH - 222.0'

Section - D88-18

Length: 222.0'

Claim No.: T 21586, Patented

Overburden Depth: 114.75'

Dip: -90°

Northing: 580 N

Easting: 390 W

Scale: 1.0" = 50.0'

D88-18

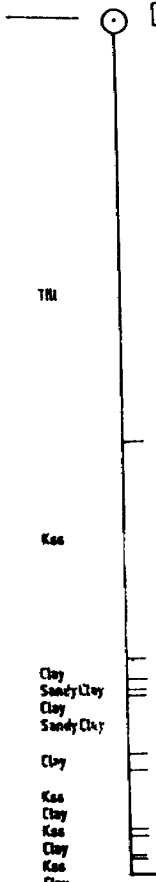
TM

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Sandy Clay

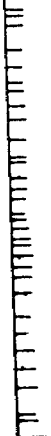
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— ○ D88-18

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ROTARY DRILL HOLE RECORD

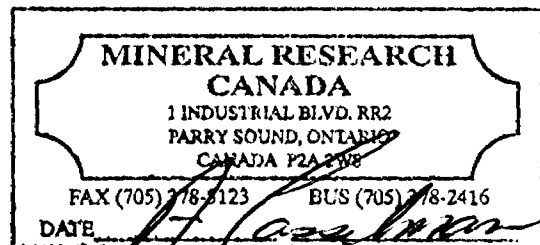
Drilling Started: Jan. 16, 1989
 Drilling Finished: Jan. 16, 1989
 Drilling Co.: Midwest
 Dip: -90°
 Hole Length: 250.0'
 Overburden Depth: 117.0'
 Claim No.: P1112329
 Easting: 5415 E
 Northing: 805 N
 Property: Kipling
 N. B.: Drilled Before Claim Recorded

Logged By: A. Casselman
 Logged: Mar. 14, 1991
 Core Size: 3.5"
 Core Storage:
 Mineral Research Canada
 1 Industrial Blvd.
 R. R. # 2
 Parry Sound, ON
 P2A 2W8
 Hole Number: 89-7

Summary

From	To	Description
0.0'	117.0'	Glacial Clay Till - Overburden - Pleistocene
117.0'	205.0'	Kaolin Silica Sand (Kss) Cretaceous
205.0'	215.0'	Sandy Clay

EOH - 215.0'

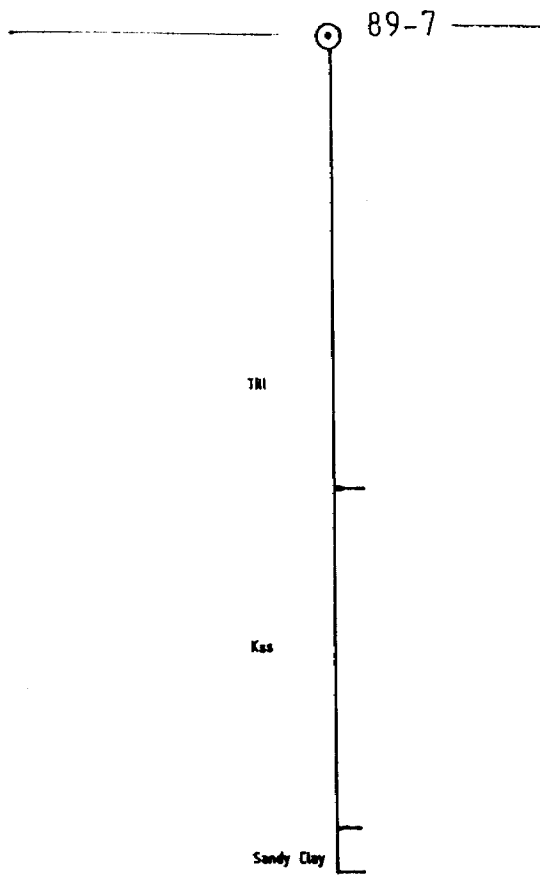


From	To	Sample No.	Description
0.0'	117.0'		Glacial Clay Till
117.0'	121.0'	15401	Kss - medium grain, light brown, calcareous exterior, entire hole dried.
121.0'	124.0'	15402	Kss - medium grain, one area of 4.0" of coarse grain in a white clay matrix at 123.0', remainder nearly white.
124.0'	127.0'	15403	Kss - as above, white - similar but finer grain size but still containing areas of coarse grain.
127.0'	130.0'	15404	Kss - as above, with coarse vari-coloured silica, white, drill gouging in coarser grained more competent sections.
130.0'	135.0'	15405	Kss - medium grain, light brown.
135.0'	141.0'	15406	Kss - medium grain, medium brown, some hematite staining and drilling debris.
141.0'	144.0'	15407	Kss - medium grain, light brown.
144.0'	147.0'	15408	Kss - as above.
147.0'	151.0'	15409	Kss - medium grain, white, drill gouging.
151.0'	155.0'	15410	Kss - as above.
155.0'	159.0'	15411	Kss - as above.
159.0'	163.0'	15412	Kss - medium grain, grading to coarse grain, vari-coloured silica up to 1.5", white.
163.0'	167.0'	15413	Kss - medium grain, white.
167.0'	171.0'	15414	Kss - medium grain, grading to coarse grain in a medium grain matrix, white.
171.0'	175.0'	15415	Kss - coarse grain in a medium grain matrix grading to medium grain, white.

175.0'	179.0'	15416	Kss - coarse grain in a medium grain matrix, vari-coloured silica up to 1.5", white, one medium brown sandy clay seam, 2.0" at 175.5' with lighter laminations.
179.0'	183.0'	15417	Kss - fine grain, light brown, minor illite.
183.0'	187.0'	15418	Kss - as above, drilling debris.
187.0'	191.5'	15419	Kss - coarse grain in a medium grain matrix, vari-coloured silica, light brown.
191.5'	195.0'	15420	Kss - medium grain grading to coarse grain, light brown.
195.0'	200.0'	15421	Kss - medium grain, light brown.
200.0'	205.0'	15422	Kss - coarse grain, in a medium grain matrix, alternating with coarse grain in a clay matrix, light brown.
205.0'	208.0'	15423	Sandy Clay - competent, disc-like, fine grain, buff, minor illite and heavies.
208.0'	211.0'	15424	Sandy Clay - as above, medium grain with lighter and darker laminations.
211.0'	215.0'	15425	Sandy Clay - as above, buff.

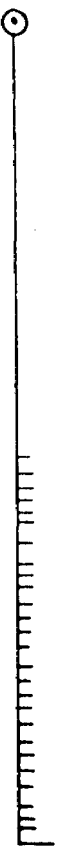
EOH - 215.0'

Length: 215.0'
Overburden Depth: 117.0'
Claim No.: 1112329
Dip: -90"
Easting: 5415 E
Northing: 1200 N
Scale: 1.0" = 50.0'



89-7.

15481
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MINERAL RESEARCH CANADA

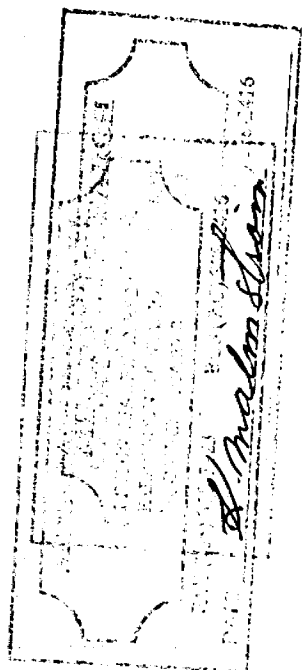
TEL: (705) 378-2416
 FAX: (705) 378-5123

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

89-4

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
15551	+ 4	2.0	6.75	
	+ 40	81.9		
	+100	8.3		
	+200	1.6		
	+325	6.8		
	-325	6.2		
15552	+ 4	17.8	5.0	
	+ 40	59.0		
	+100	9.8		
	+200	7.5		
	+325	1.4		
	-325	4.5		
15553	+ 4	5.2	7.75	
	+ 40	60.8		
	+100	29.9		
	+200	5.7		
	+325	2.5		
	-325	5.9		
15554	+ 4	1.9	14.0	
	+ 40	63.7		
	+100	19.6		
	+200	12.8		
	+325	0.5		
	-325	1.5		
15555	+ 4	9.4	7.25	
	+ 40	80.9		
	+100	8.8		
	+200	0.5		
	+325	0.5		
	-325	0.4		



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 %	pH (20% SOLIDS)
15554	+ 4	14.4	5.55	
	+ 40	67.0		
	+100	9.1		
	+200	2.9		
	+325	0.7		
	-325	5.9		
15557	+ 4	16.4	6.45	
	+ 40	51.6		
	+100	18.2		
	+200	2.6		
	+325	1.7		
	-325	9.5		
15558	+ 4	5.1	10.0	
	+ 40	56.3		
	+100	12.9		
	+200	2.6		
	+325	2.8		
	-325	11.8		
15559	+ 4	3.3	7.5	
	+ 40	44.5		
	+100	39.4		
	+200	2.1		
	+325	1.3		
	-325	9.4		
15560	+ 4	0.9	15.9	
	+ 40	5.7		
	+100	37.2		
	+200	15.9		
	+325	26.0		
	-325	10.3		

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

FAX (705) 378-5123 BUS (705) 378-2416

DATE: *Am*

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 % pH (20% SOLIDS)

15561

+ 4	0	
+ 40	8.5	12.2
+100	5.7	
+200	6.2	
+325	17.2	
-325	60.4	

15562

+ 4	0	
+ 40	9.8	9.2
+100	16.8	
+200	17.1	
+325	8.1	
-325	48.2	

15563

+ 4	0.1	
+ 40	0.3	18.1
+100	19.5	
+200	8.0	
+325	15.3	
-325	56.8	

15564

+ 4	0.1	
+ 40	63.8	7.5
+100	19.6	
+200	2.5	
+325	14.0	

15565

+ 4	0.3	
+ 40	60.5	7.4
+100	19.2	
+200	4.8	
+325	3.4	
-325	11.8	

MINERAL RESEARCH CANADA

1 INDUSTRIAL BLVD., RR2

PARRY SOUND, ON. CANADA

P2A 2W8

TEL: (705) 378-2416

FAX: (705) 378-5123

Am

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 % pH (20% SOLIDS)

15566

+ 4	0.4	
+ 40	8.2	12.0
+100	5.4	
+200	8.9	
+325	16.2	
-325	60.8	

15567

+ 4	5.1	9.15
+ 40	18.1	
+100	49.4	
+200	3.9	
+325	2.0	
-325	21.5	

15568

+ 4	0.4	
+ 40	0.3	11.4
+100	56.8	
+200	13.7	
+325	14.6	
-325	14.2	

15569

+ 4	0	
+ 40	7.1	10.2
+100	63.5	
+200	6.0	
+325	13.3	
-325	10.1	

15570

+ 4	0.1	15.0
+ 40	20.1	
+100	31.9	
+200	18.9	
+325	17.4	
-325	16.6	

Am

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 %	pH (20% SOLIDS)
15571	+ 4	0.8	9.7	
	+ 40	9.3		
	+100	18.9		
	+200	16.3		
	+325	24.8		
	-325	28.9		
15572	+ 4	0.3	12.0	
	+ 40	5.8		
	+100	16.1		
	+200	14.4		
	+325	27.4		
	-325	33.8		
15573	+ 4	0.5	17.5	
	+ 40	0.7		
	+100	8.1		
	+200	13.9		
	+325	19.4		
	-325	52.4		
15574	+ 4	0	16.0	
	+ 40	6.6		
	+100	11.8		
	+200	18.8		
	+325	22.2		
	-325	40.6		
15575	+ 4	0.0	12.1	
	+ 40	0.3		
	+100	4.6		
	+200	15.8		
	+325	17.4		
	-325	61.9		

Lm

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 %	pH (20% SOLIDS)
15576	+ 4	0.8	5.55	3.6
	+ 40	53.9		
	+100	24.5		
	+200	3.6		
	+325	2.8		
	-325	14.4		
15577	+ 4	0	5.0	3.8
	+ 40	44.6		
	+100	11.0		
	+200	3.8		
	+325	1.3		
	-325	39.3		
15578	+ 4	1.5	11.0	2.3
	+ 40	67.9		
	+100	18.2		
	+200	2.3		
	+325	1.6		
	-325	9.0		
15579	+ 4	1.8	14.1	2.4
	+ 40	73.0		
	+100	12.2		
	+200	2.9		
	+325	1.7		
	-325	9.4		
15580 EOM	+ 4	2.7	12.6	2.3
	+ 40	43.8		
	+100	30.5		
	+200	6.0		
	+325	2.3		
	-325	14.7		

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SAMPLE ID: 101101 (101101) ; DATE: 07/22/91
 SAMPLE ID: Note 83-4 # 15580
 SUBMITTER: # 1
 OPERATOR: # 7
 SAMPLE TYPE: Disp.
 LIQUID TYPE: Water
 ANALYSIS TEMP: 84.7 deg C Run TYPE: High Speed

UNIT NUMBER: 1
 START 13:27:15 07/22/91
 REPT 13:34:47 07/22/91
 TOT RUN TIME 0:07:11
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

STARTING DIAMETER: 0.100 μ m
 ENDING DIAMETER: 0.100 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIA DIAMETER: 0.100 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	COPIES FINER (%)	MASS IN INTERVAL (%)
50.00	97.5	2.7
40.00	97.0	0.4
30.00	95.5	1.5
25.00	92.0	1.5
20.00	81.5	2.4
15.00	71.5	3.2
10.00	61.9	3.6
8.00	52.2	3.1
6.00	42.5	4.7
5.00	36.1	3.0
4.00	31.7	4.6
3.00	26.4	6.3
2.00	19.5	6.8
1.50	12.4	6.9
1.00	5.5	6.0
0.75	1.5	4.9
0.50	0.1	3.0
0.25	0.4	1.2
0.10	0.0	0.0

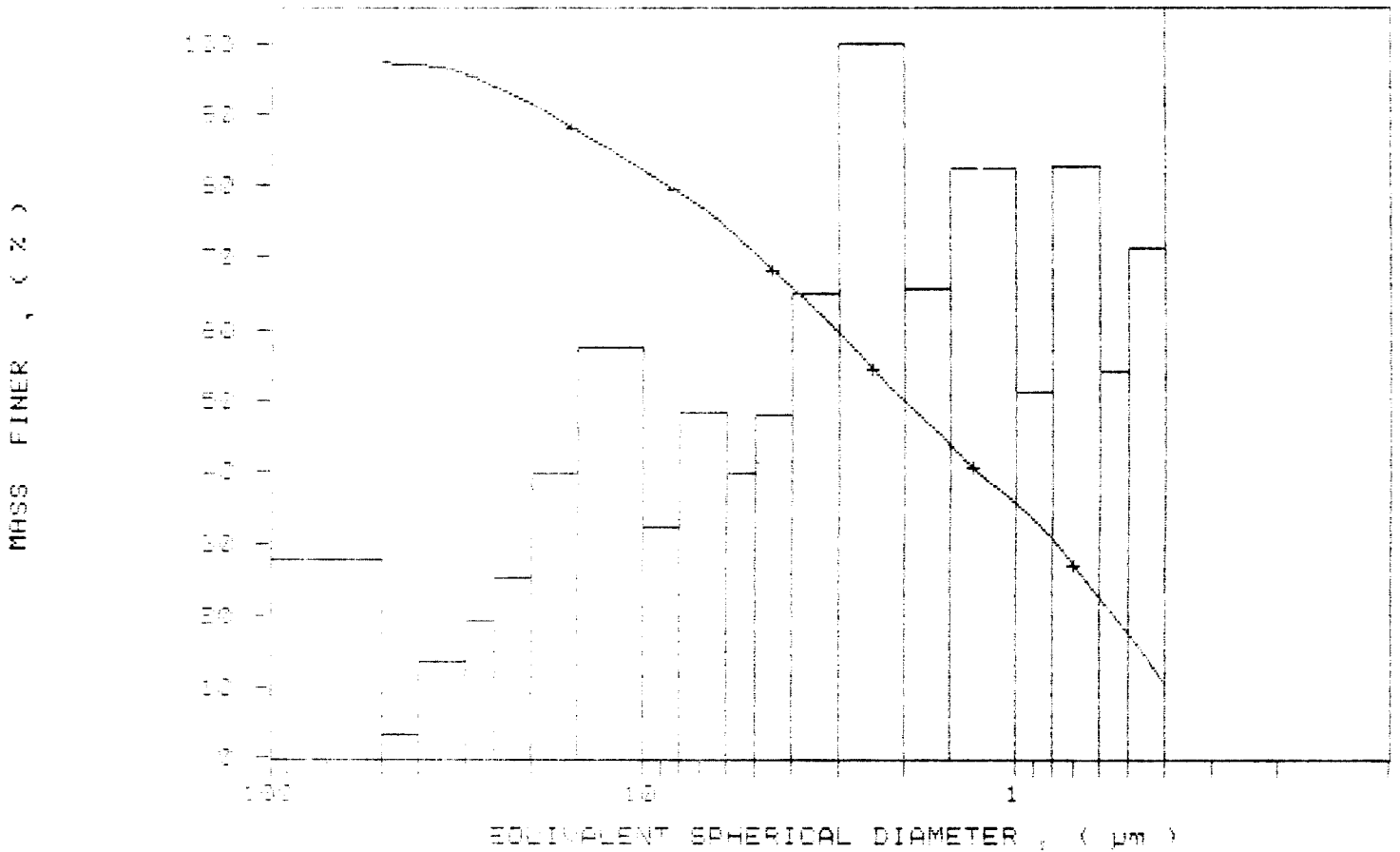
MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 338-5123 BUS (705) 378-2416
 DATE *A. Malmstrom*

SAMPLE ID: 21-17 (1) (KORCHI) (ORTAS) (720)
 SAMPLE ID: 21-17 (1) (KORCHI) (ORTAS) (720)
 SUBMITTER: W. G. ...
 OPERATOR: P. ...
 SAMPLE TYPE: Oily
 LIQUID TYPE: Water
 ANALYSIS: 7000 - 3000 deg. C. RUN TYPE: High Speed

UNIT NUMBER: 1
 START 13:27:15 07/22/91
 REPT 13:34:47 07/22/91
 TOT RUN TIME 0:07:11
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

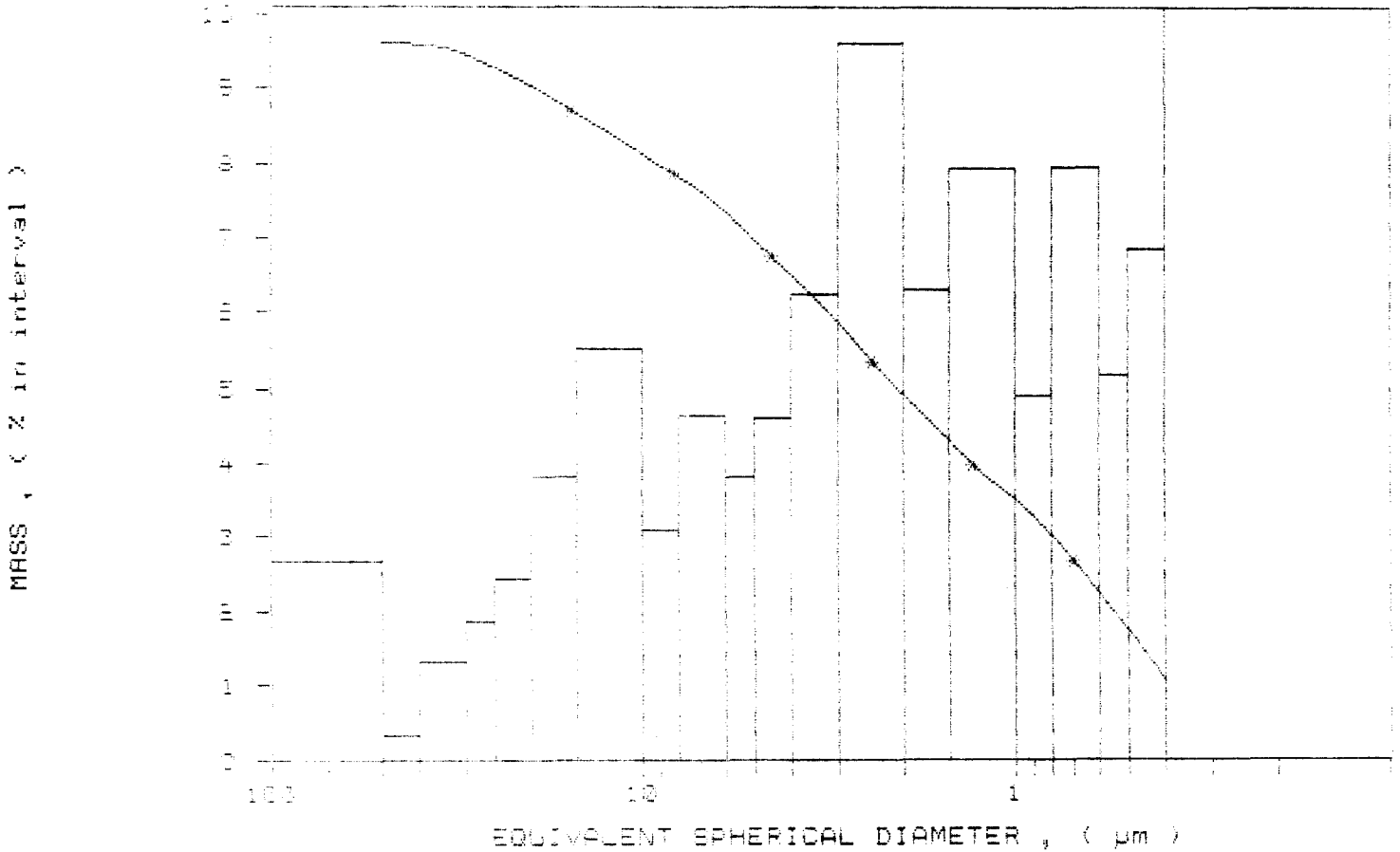
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTOR/ANALYST: DATAI /ZEL
 SAMPLE ID: Hole S-4 # 15580
 SUBMITTED: * 27
 OPERATOR: AT
 SAMPLE TYPE: SLS
 LIQUID TYPE: Water
 ANALYSIS METHOD: 2-17 pag 1 RUN TYPE: High Speed

UNIT NUMBER: 1
 START 13:27:15 07/22/91
 REPT 13:34:47 07/22/91
 TOT RUN TIME 0:07:11
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cc

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



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SAMPLE DIRECTOR: CONLEY, DAVID /28V
 SAMPLE ID: note 89-4 # 15575
 SUBMITTER: M. S.
 OPERATOR: JCF
 SAMPLE TYPE: Diex
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.0 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 13:08:42 07/22/91
 REPT 13:16:20 07/22/91
 TOT RUN TIME 0:07:17
 SAM DENS: 2.5000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

STARTING DIAMETER: 100.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

PALE DISTRIBUTION

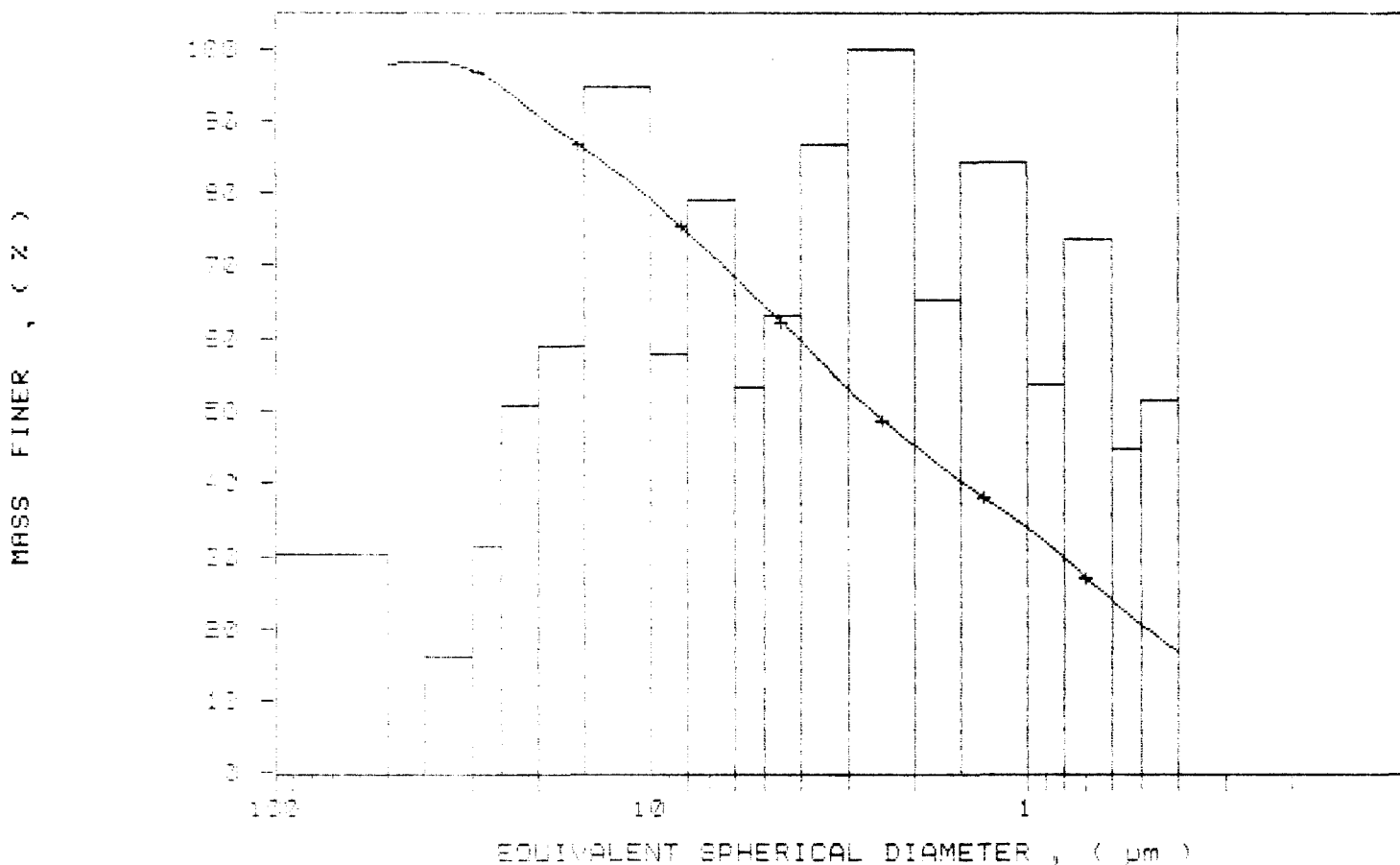
MEDIAN DIAMETER: 3.52 um MODAL DIAMETER: 3.52 um

DIAMETER (um)	PERCENTAGE (%)	PERCENTAGE (%)
50.00	97.7	2.3
40.00	98.2	1.8
30.00	97.8	2.2
25.00	94.8	5.2
20.00	90.7	9.3
15.00	82.2	17.8
10.00	68.3	31.7
8.00	57.2	42.8
6.00	42.4	57.6
5.00	34.9	65.1
4.00	25.1	74.9
3.00	12.9	87.1
2.00	4.1	95.9
1.50	1.2	98.8
1.00	0.7	99.3
0.700	0.3	99.7
0.500	0.1	99.9
0.300	0.0	100.0
0.200	0.0	100.0

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5133 BUS (705) 378-2416
 DATE *[Signature]*

SAMPLE CHARACTERIZATION: DATA	YES	UNIT NUMBER: 1
SAMPLE ID: Hole # 89-4 # 15579		START 12:09:42 07/22/91
SUBMITTER: # 21		REPRT 13:15:20 07/22/91
OPERATOR: NM		TOT RUN TIME 0:07:17
SAMPLE TYPE: Clay		SAM DENS: 2.6000 g/cc
LIQUID TYPE: water		L10 DENS: 0.9942 g/cc
ANALYSIS TIME: 54.0 sec	RUN TYPE: High Speed	L10 VISC: 0.7271 cp

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



SAMPLE DIRECTOR/NUMBER: DITHS /280

UNIT NUMBER: 1

SAMPLE ID: Hole 89-4 # 15579

START 13:00:42 07/22/91

SUBMITTER: # 20

REPT 13:16:20 07/22/91

OPERATOR: RM

TOT RUN TIME 0:07:17

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

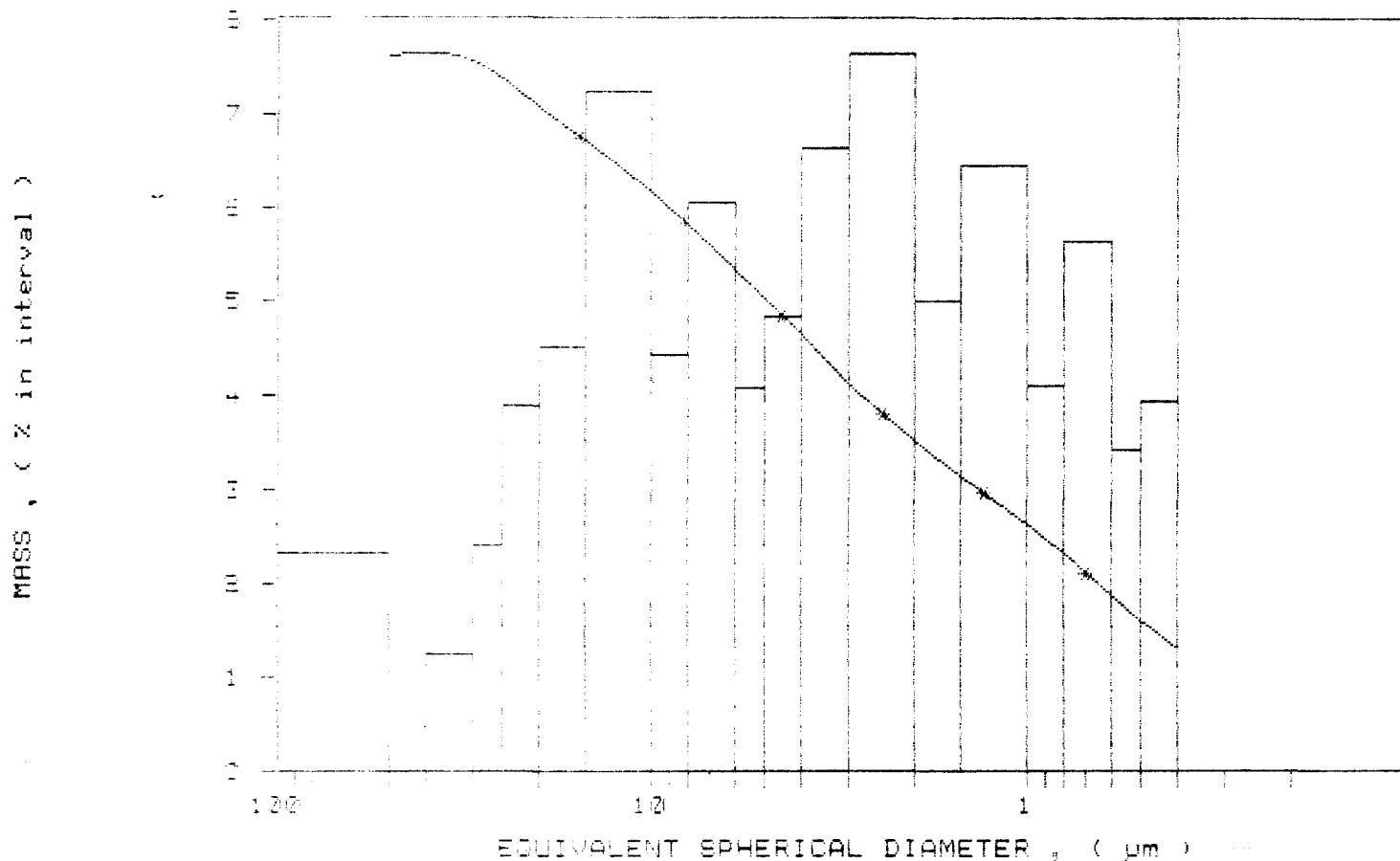
LIQUID TYPE: Water

L10 DENS: 0.9942 g/cc

ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

L10 VISC: 0.7271 cp

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



Hole 89-4 # 15578

Sedigraph 5100 V2.05

PAGE 1

SAMPLE DIRECTORY NUMBER: DATAS /273

UNIT NUMBER: 1

SAMPLE ID: Hole 89-4 # 15578

START 12:32:12 07/22/91

SUBMITTER: # 07

REPT 12:44:16 07/22/91

OPERATOR: KM

TOT RUN TIME 0:07:30

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 94.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7269 cp

STARTING DIAMETER: 50.00 μ m

REYNOLDS NUMBER: 0.21

ENDING DIAMETER: 0.15 μ m

FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.14 μ m

MODAL DIAMETER: 0.49 μ m

DIAMETER (μ m)	CUMULATIVE MASS FIND (%)	MASS IN INTERVAL (%)
50.00	0.0	0.4
40.00	99.2	0.4
30.00	97.5	1.5
25.00	96.9	1.0
20.00	95.2	2.7
15.00	89.4	5.8
10.00	79.6	9.8
8.00	70.1	9.5
6.00	59.7	10.4
5.00	49.6	10.1
4.00	38.7	10.9
3.00	28.5	11.2
2.00	18.2	11.3
1.50	9.2	9.0
1.00	0.0	9.2
0.75	0.0	9.2
0.50	0.0	9.2
0.25	0.0	9.2
0.15	0.0	9.2

**MINERAL RESEARCH
CANADA**
1 INDUSTRIAL BLVD. RR2
BARRY SCOTT, ONTARIO
CANADA P2A 2W8

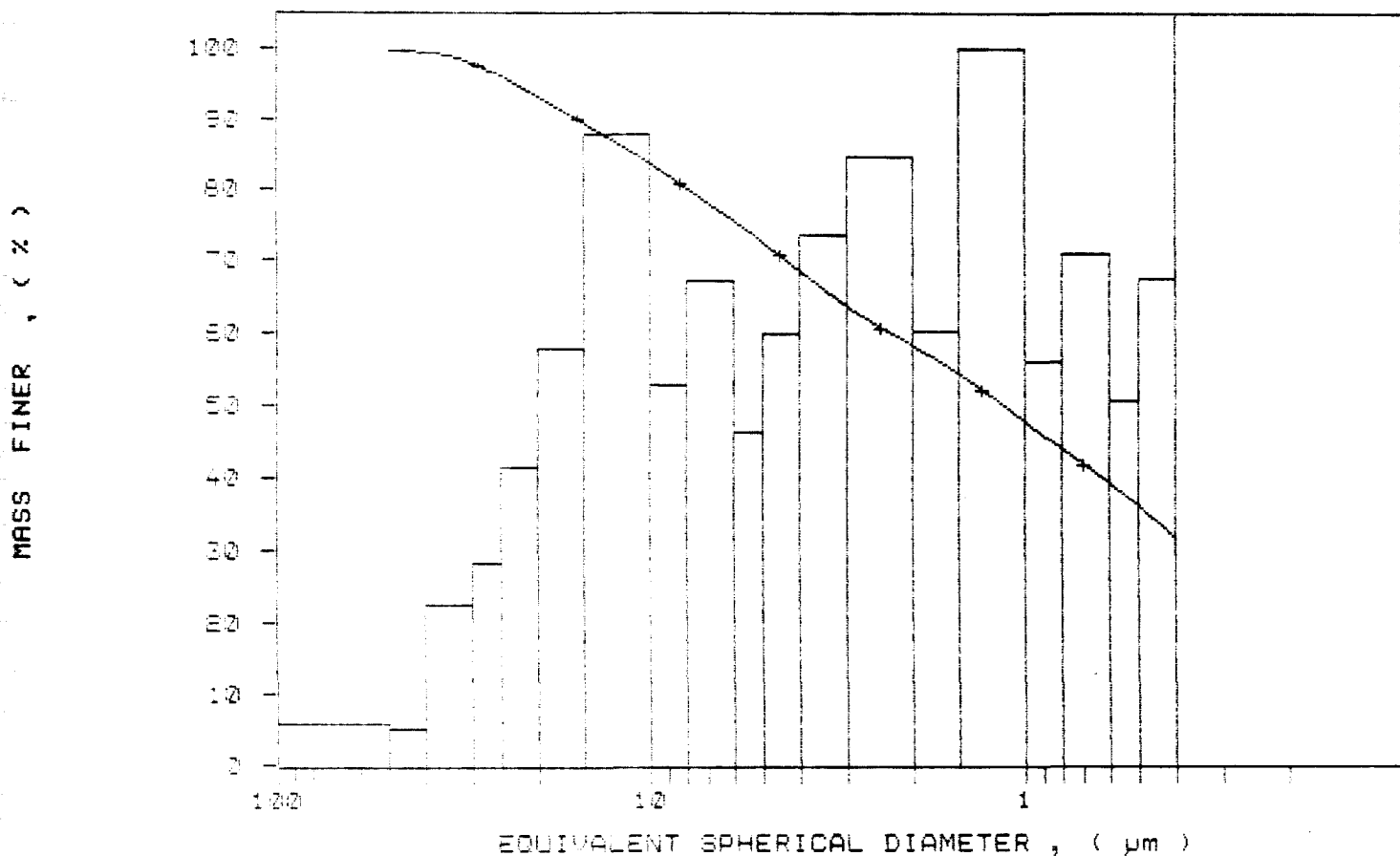
FAX (705) 378-5123 BUS (705) 378-2416

DATE *Am*

SAMPLE DIRECTORY NUMBER: DATA5 /279
SAMPLE ID: Hole 89-4 # 15578
SUBMITTER: # 3
OPERATOR: RM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 12:32:12 07/22/91
REPT 12:44:16 07/22/91
TOT RUN TIME 0:07:30
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7268 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /279

SAMPLE ID: Hole 89-4 # 15578

SUBMITTER: # 89

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 24.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 12:32:12 07/22/91

REPT 12:44:16 07/22/91

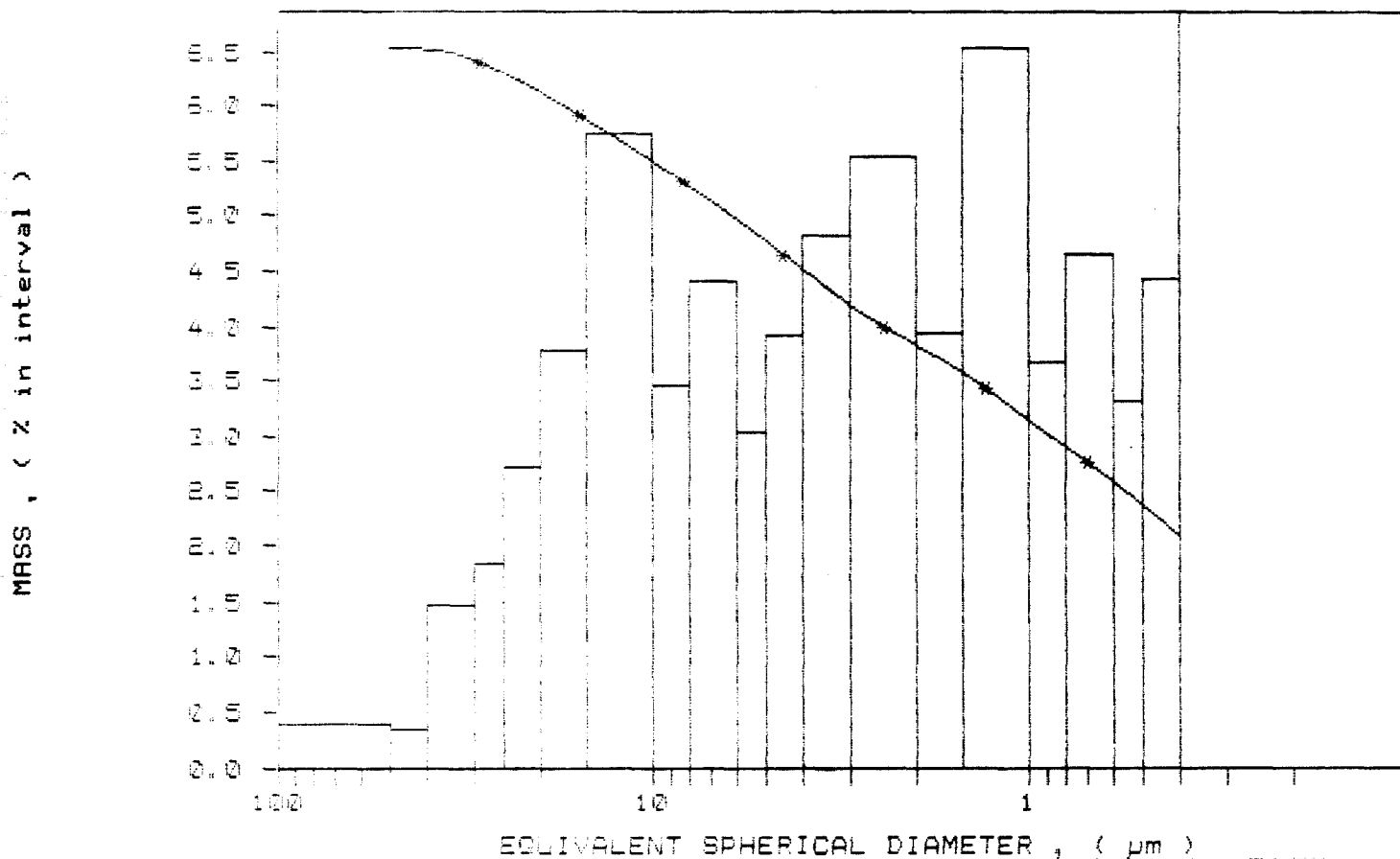
TOT RUN TIME 0:07:30

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7268 cp

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



Handwritten signature and date: *KM* 07/22/91

SediGraph 5100 v2.02

Hole 29-4 # 15577

PAGE 1

SAMPLE DIRECTORY NUMBER: DATA5 /278
 SAMPLE ID: Hole 29-4 # 15577
 SUBMITTER: # 29
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:13:47 07/22/91
 REPR 12:21:27 07/22/91
 TOT RUN TIME 0:07:19
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7267 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 5.23 μ m MASS DISTRIBUTION

MODAL DIAMETER: 0.41 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	95.8	4.2
40.00	95.1	-0.5
30.00	94.0	2.0
25.00	91.1	2.9
20.00	87.6	3.5
15.00	86.2	4.4
10.00	78.6	6.7
8.00	72.6	9.7
6.00	67.8	5.2
5.00	64.6	6.6
4.00	60.1	5.5
3.00	54.8	4.6
2.00	48.4	6.5
1.50	45.4	4.9
1.00	37.2	6.2
0.90	36.8	0.4
0.80	33.2	3.5
0.50	24.6	6.7
0.40	14.8	4.8

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARKY SOUND, ONTARIO
 CANADA P2A 2W8

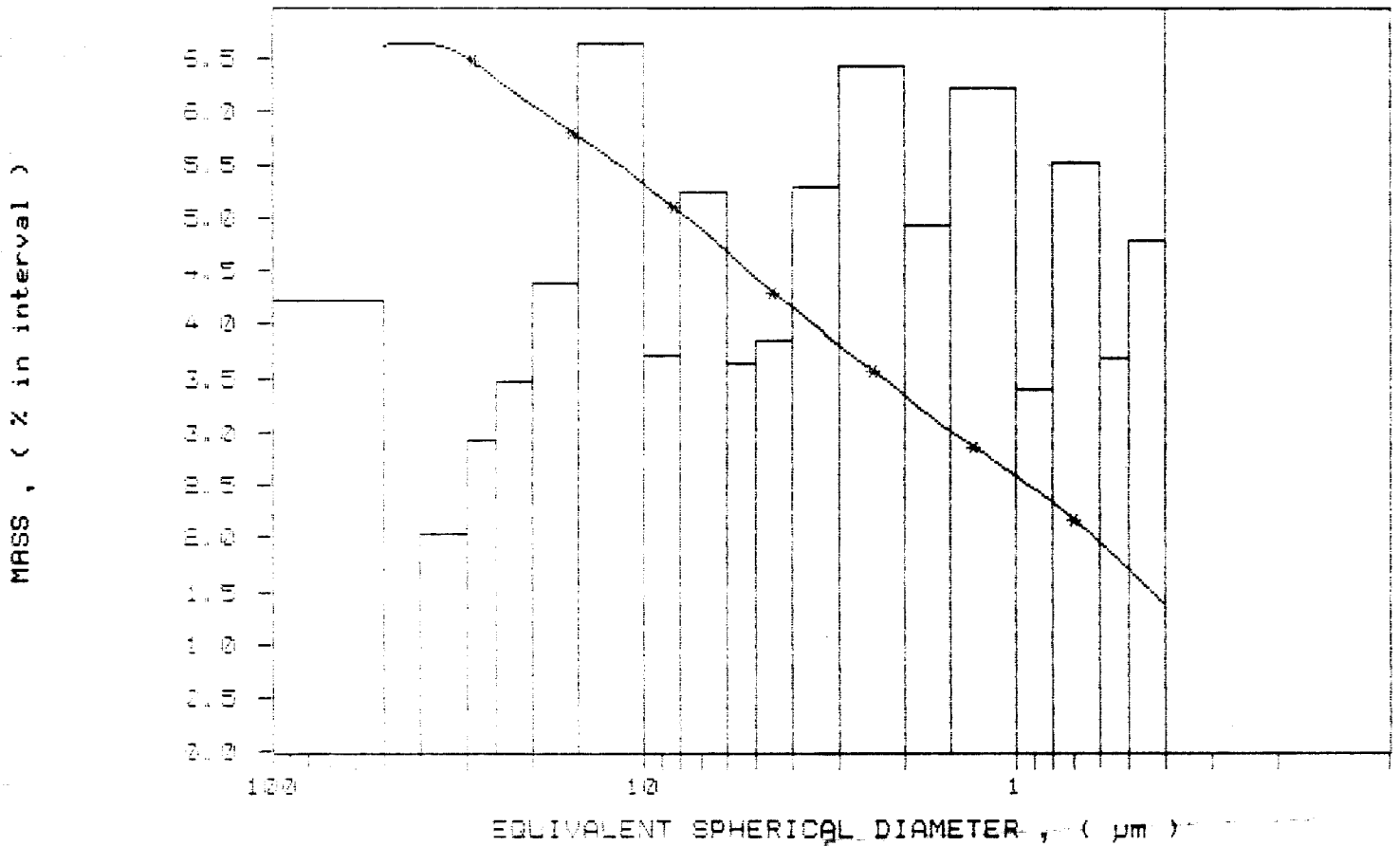
FAX (705) 378-5123 BUS (705) 378-2416

DATE *Jan*

SAMPLE DIRECTORY/NUMBER: DATAS /278
 SAMPLE ID: Hole 89-4 # 15577
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:13:47 07/22/91
 REPT 12:21:27 07/22/91
 TOT RUN TIME 0:07:19
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7267 cp

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



[Faint, illegible text or signature]

SAMPLE DIRECTORY/NUMBER: DATAS /277
 SAMPLE ID: Hole 89-4 # 15576
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 11:53:56 07/22/91
 REPT 12:05:54 07/22/91
 TOT RUN TIME 0:07:25
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7265 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.55 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.9	0.1
40.00	97.9	2.1
30.00	95.9	1.9
25.00	95.8	0.6
20.00	94.9	1.9
15.00	91.1	3.8
10.00	86.9	4.2
5.00	80.8	6.1
5.00	77.8	3.4
3.00	74.1	3.7
4.00	64.5	4.6
3.00	59.8	5.7
2.00	54.9	5.9
1.50	49.4	5.5
1.00	41.9	7.5
0.80	36.9	4.7
0.60	30.9	6.2
0.50	25.9	4.6
0.40	18.9	6.8

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARKS SOUND ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *dlm*

SAMPLE DIRECTORY/NUMBER: DATAS 7277

SAMPLE ID: Hole 89-4 # 15576

SUBMITTER: # 89

OPERATOR: NM

SAMPLE TYPE: Clay

LIQUID TYPE: water

ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1

START 11:53:56 07/22/91

REPT 12:05:54 07/22/91

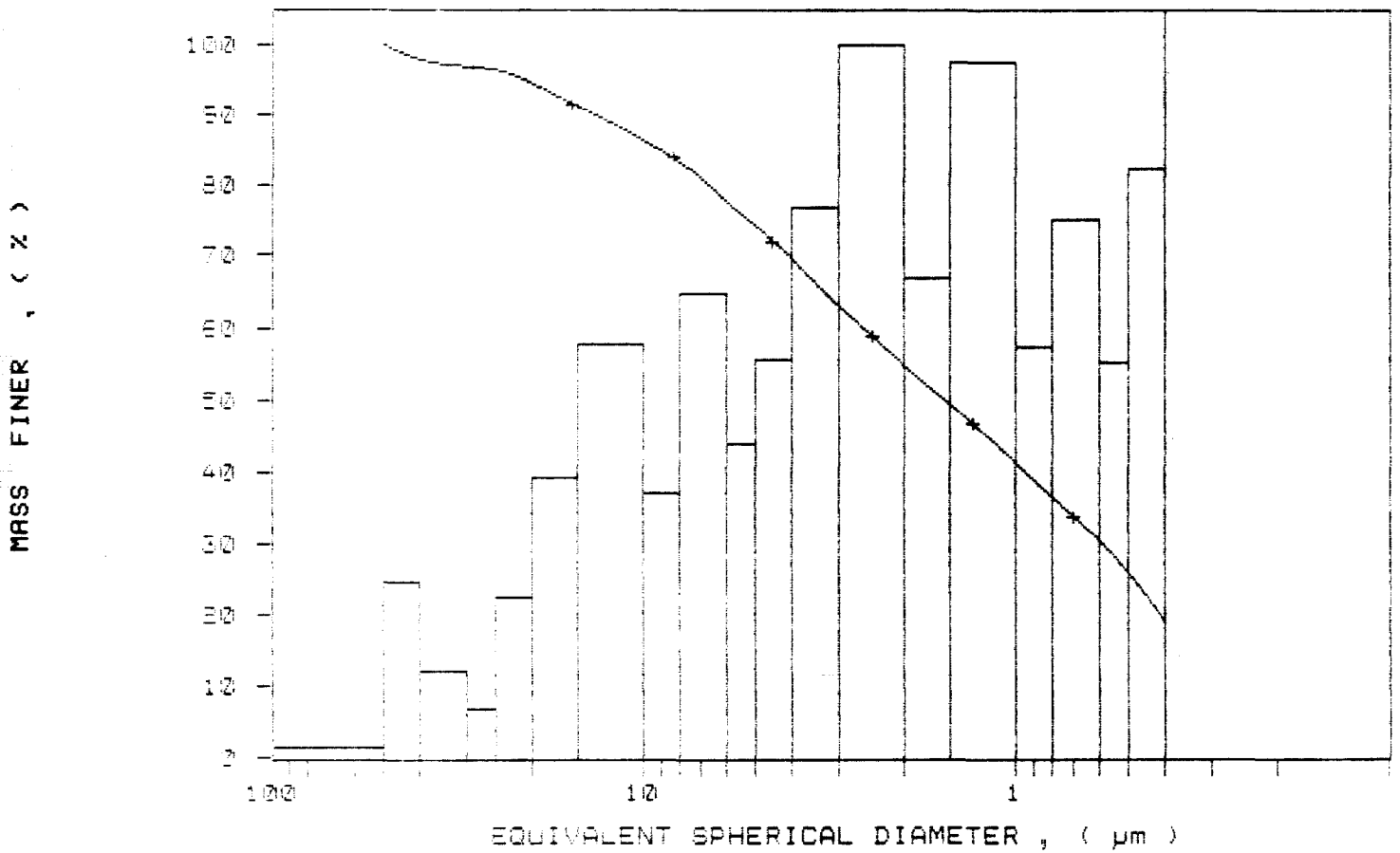
TOT RUN TIME 0:07:25

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

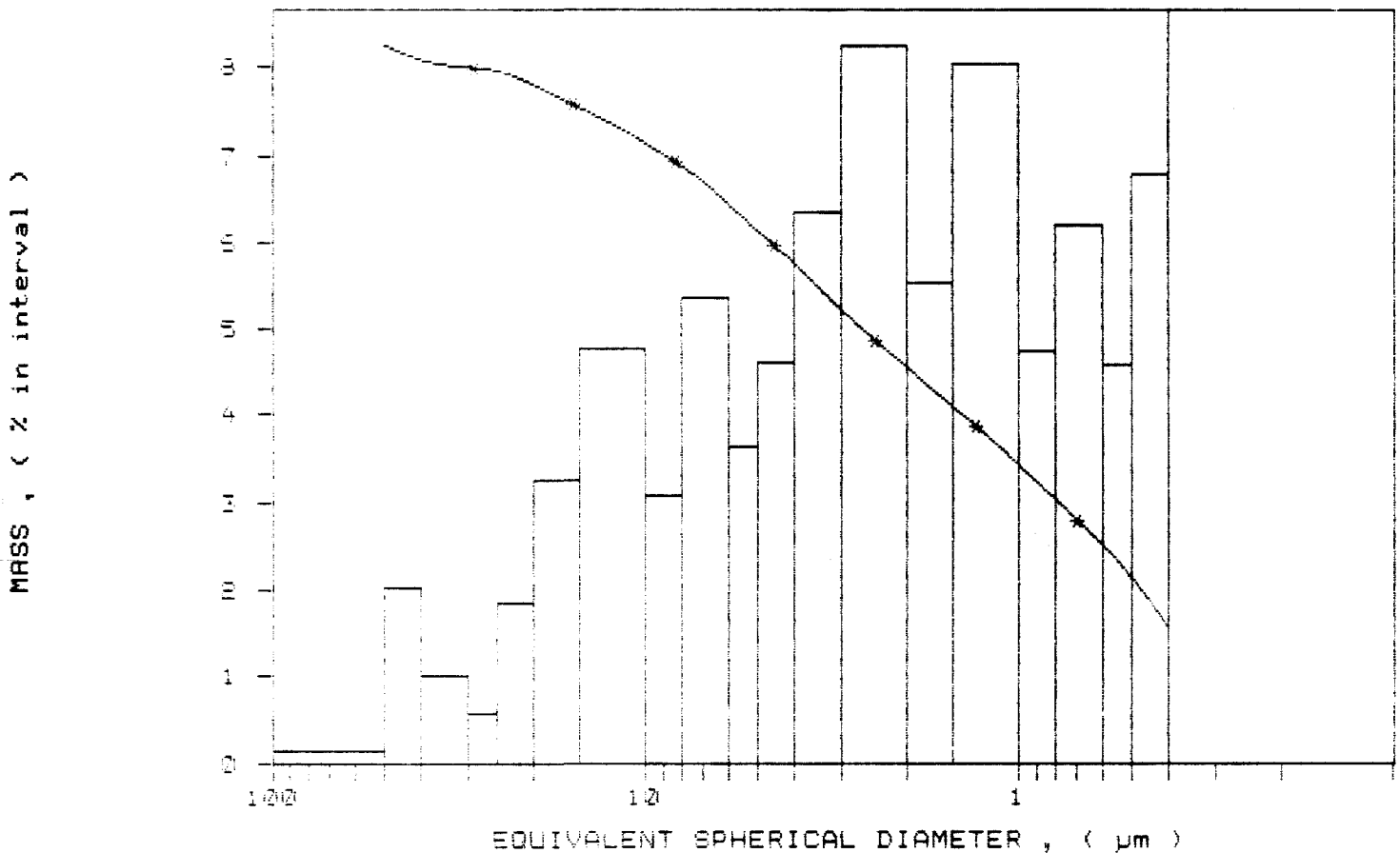
LIQ VISC: 0.7265 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /277	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15576	START 11:53:56 07/22/91
SUBMITTER: # 39	REPT 12:05:54 07/22/91
OPERATOR: NM	TOT RUN TIME 0:07:25
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 24.7 deg C	LIQ VISC: 0.7265 cp
RUN TYPE: High Speed	

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



SediGraph 5100 VE.03

Hole 89-4 # 15575

PAGE 1

SAMPLE DIRECTORY NUMBER: DATA5 /276
 SAMPLE ID: Hole 89-4 # 15575
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 11:35:15 07/22/91
 REPR 11:42:56 07/22/91
 TOT RUN TIME 0:07:19
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7266 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.15 μ m

MASS DISTRIBUTION

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	57.5	2.1
40.00	58.5	1.0
30.00	58.5	0.4
25.00	58.1	0.4
20.00	57.2	1.8
15.00	55.4	3.0
10.00	52.6	4.8
8.00	55.0	5.0
6.00	75.5	5.4
5.00	75.5	5.4
4.00	72.7	3.7
3.00	68.0	5.8
2.00	60.1	6.9
1.50	54.7	5.4
1.00	47.5	7.1
0.80	43.5	4.1
0.50	37.8	5.7
0.50	33.4	4.4
0.40	28.5	7.0

**MINERAL RESEARCH
CANADA**

1 INDUSTRIAL BLVD. RR2
PAPRY SOUND, ONTARIO
CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *[Signature]*

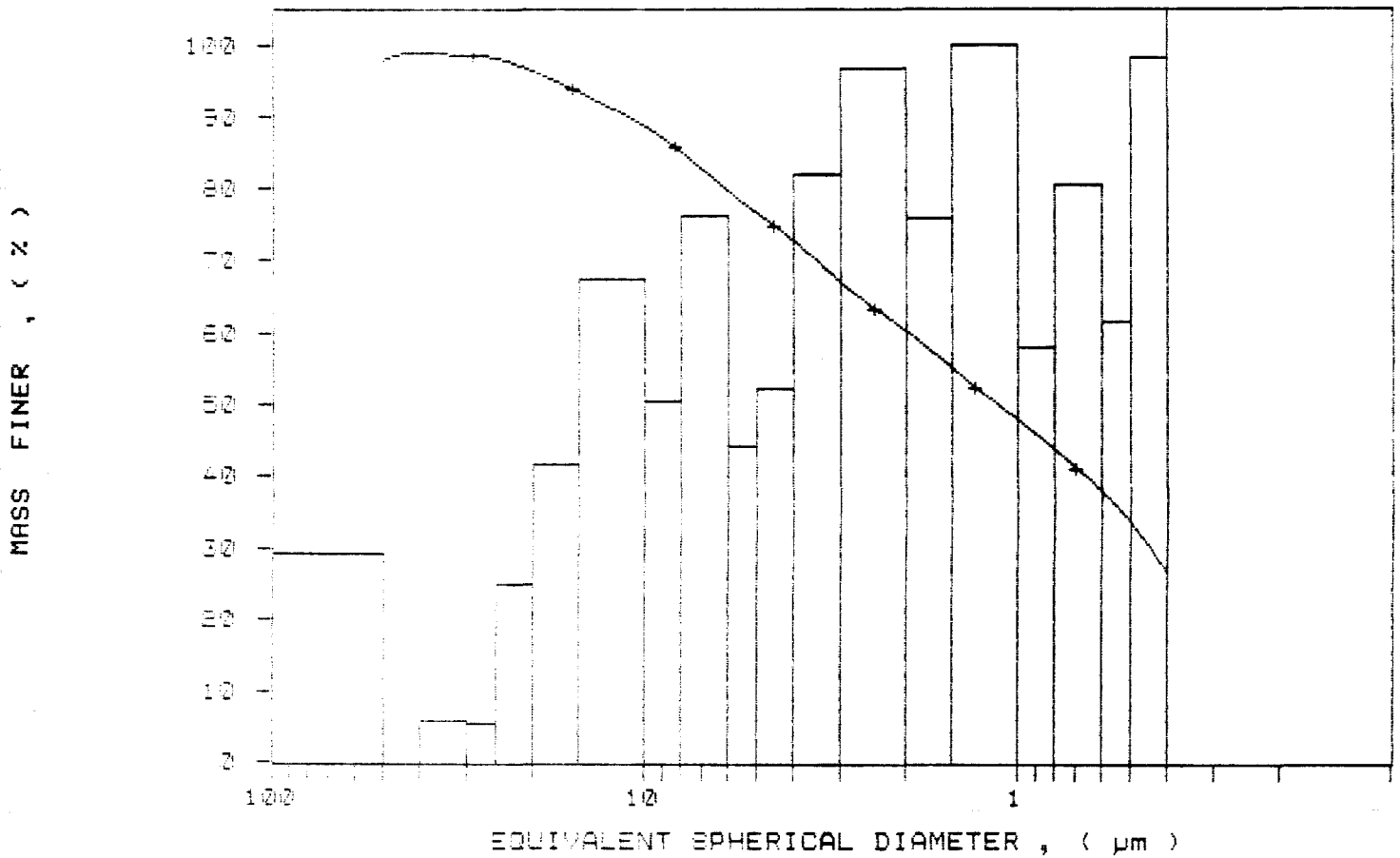
Hole 89-4 # 15575

SediGraph 5100 V2.03

PAGE 2

SAMPLE DIRECTORY NUMBER: LATA5 7275 UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15575 START 11:35:15 07/22/91
SUBMITTER: # 39 REPR 11:42:56 07/22/91
OPERATOR: KM TOT RUN TIME 0:07:19
SAMPLE TYPE: Clay SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed LIQ VISC: 0.7266 cp

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



SAMPLE DIRECTORY/NUMBER: DATAS /276

SAMPLE ID: Hole 89-4 # 15575

SUBMITTER: # 35

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 11:35:15 07/22/91

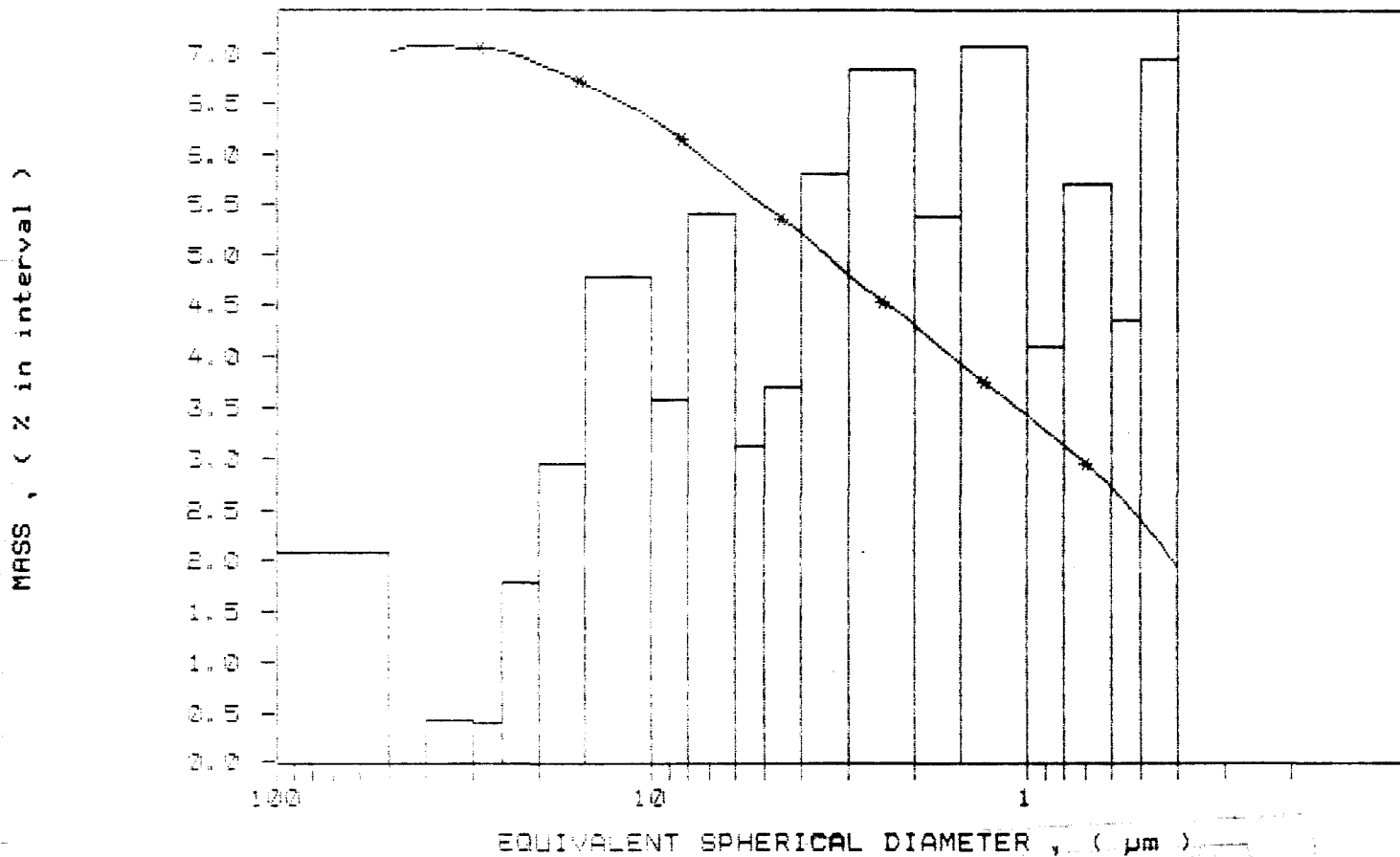
REPT 11:42:56 07/22/91

TOT RUN TIME 0:07:19

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7266 cp

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

Hole 89-4 # 15574

PAGE 1

SediGraph 5100 VE.03

SAMPLE DIRECTORY NUMBER: DATA5 /275
SAMPLE ID: Hole 89-4 # 15574
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 11:13:31 07/22/91
REPT 11:21:11 07/22/91
TOT RUN TIME 0:07:21
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7267 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.59 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.3	-1.3
40.00	100.1	1.2
30.00	98.1	2.0
25.00	96.1	2.1
20.00	92.9	3.2
15.00	88.2	4.7
10.00	81.1	7.1
8.00	76.0	4.9
6.00	71.3	5.3
5.00	67.5	4.0
4.00	62.6	5.0
3.00	57.0	5.3
2.50	53.1	7.2
1.50	43.3	4.3
1.00	38.8	6.5
0.80	34.7	4.3
0.60	28.9	5.3
0.50	24.3	4.1
0.40	15.0	5.9

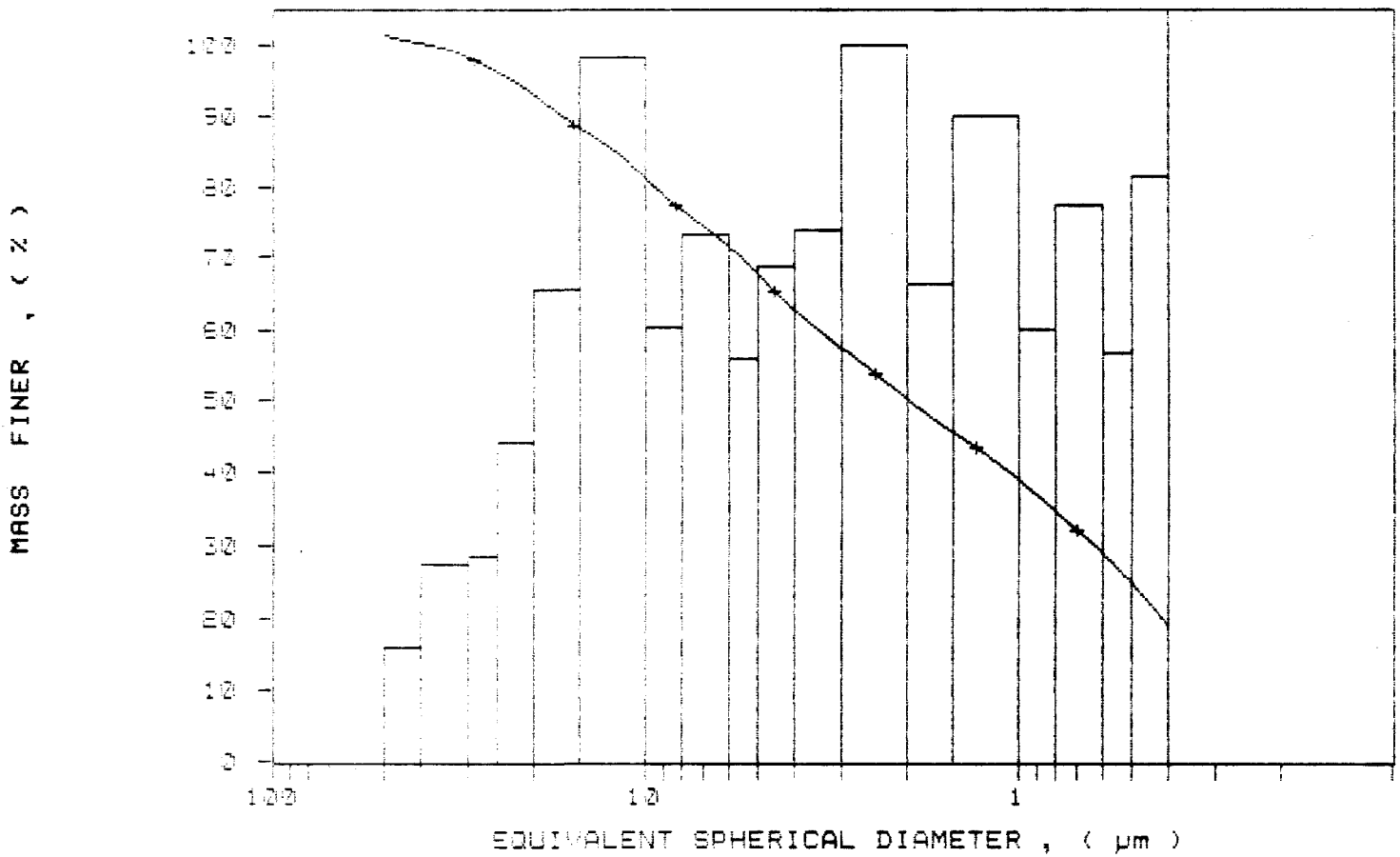
**MINERAL RESEARCH
CANADA**
1 INDUSTRIAL BLVD. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *[Signature]*

SAMPLE DIRECTORY NUMBER: DATA5 /275	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15574	START 11:13:31 07/22/91
SUBMITTER: # 89	REPT 11:21:11 07/22/91
OPERATOR: NM	TOT RUN TIME 0:07:21
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 24.7 deg C	LIQ VISC: 0.7267 cp
RUN TYPE: High Speed	

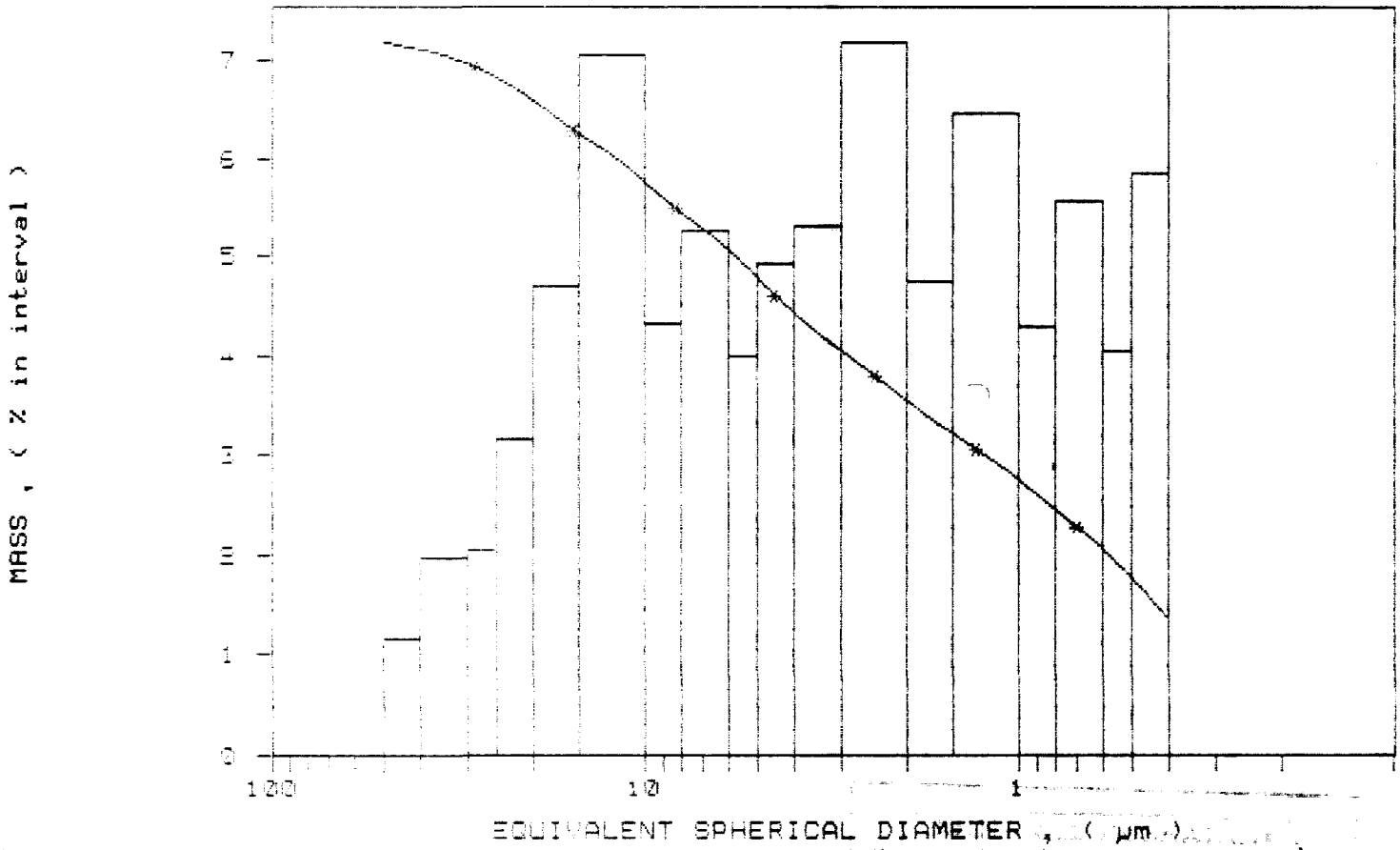
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /275
 SAMPLE ID: Hole 89-4 # 15574
 SUBMITTER: # 09
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 11:13:31 07/22/91
 REPT 11:21:11 07/22/91
 TOT RUN TIME 0:07:21
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7267 cp

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



[Handwritten signature]

hole 89-4 # 15573

SediGraph 51wv V2.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAS /274

SAMPLE ID: Hole 89-4 # 15573

SUBMITTER: # 39

OPERATOR: RM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1

START 09:32:14 07/22/91

REPRT 09:39:57 07/22/91

TOT RUN TIME 0:07:22

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7267 cp

STARTING DIAMETER: 50.00 μ m

ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21

FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.11 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.1	0.9
40.00	98.6	0.5
30.00	97.8	1.2
25.00	97.4	1.5
20.00	92.0	5.4
15.00	89.1	4.9
10.00	80.7	8.4
8.00	77.0	3.6
6.00	71.6	5.7
5.00	67.5	3.9
4.00	62.9	4.6
3.00	57.1	5.8
2.00	48.9	8.2
1.50	42.4	6.5
1.00	32.1	7.6
0.80	21.2	4.9
0.60	15.9	5.2
0.50	22.4	3.7
0.40	17.8	5.4

**MINERAL RESEARCH
CANADA**
1 INDUSTRIAL BLVD. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *RM*

SAMPLE DIR: D:\DATA\15578

UNIT NUMBER: 1

SAMPLE ID: Hole 89-4 # 15578

START 09:32:14 07/22/91

SUBMITTER: # 86

REPT 09:39:57 07/22/91

OPERATOR: KM

TOT RUN TIME 0:07:22

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

LIQUID TYPE: Water

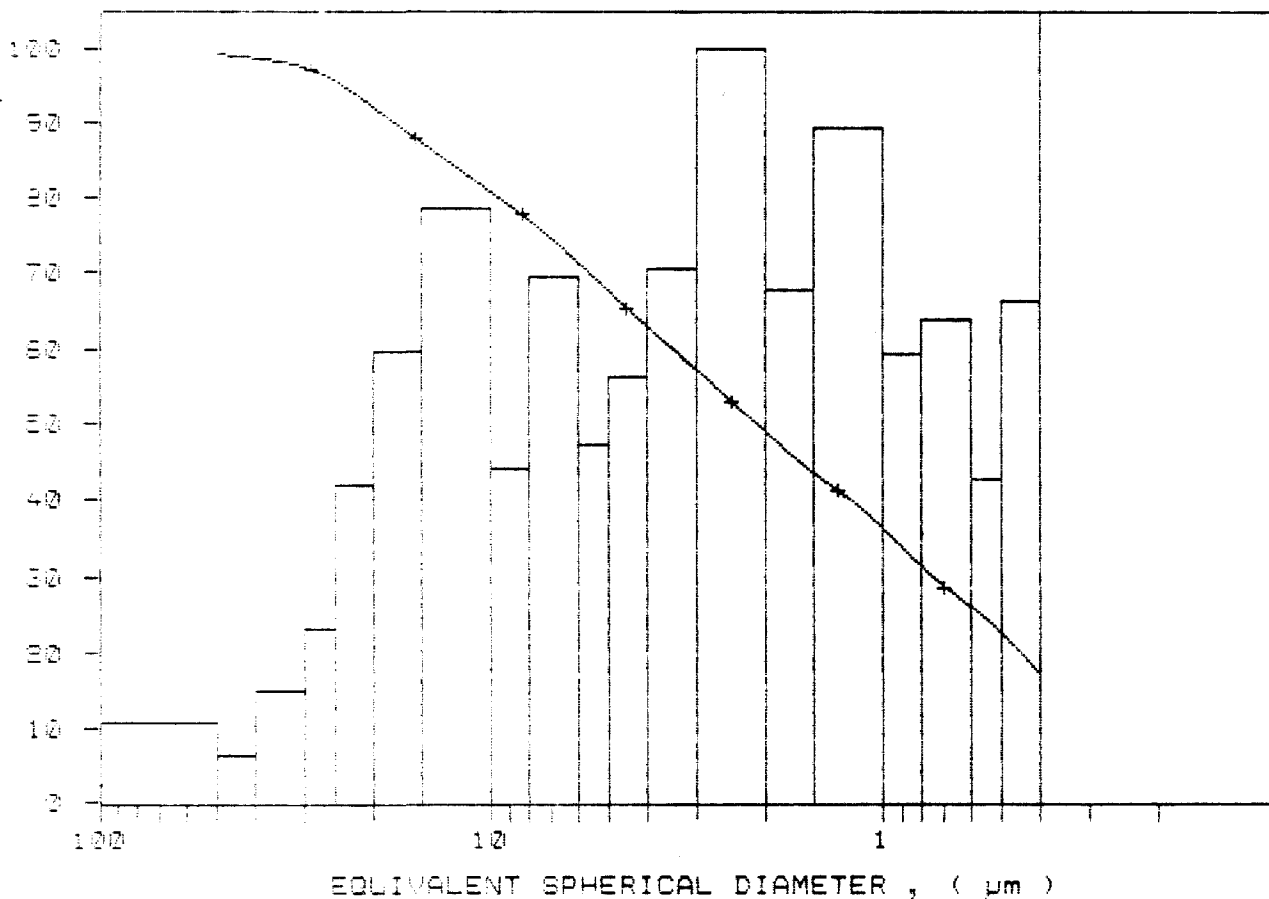
LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7267 cp

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

MASS FINER , (%)

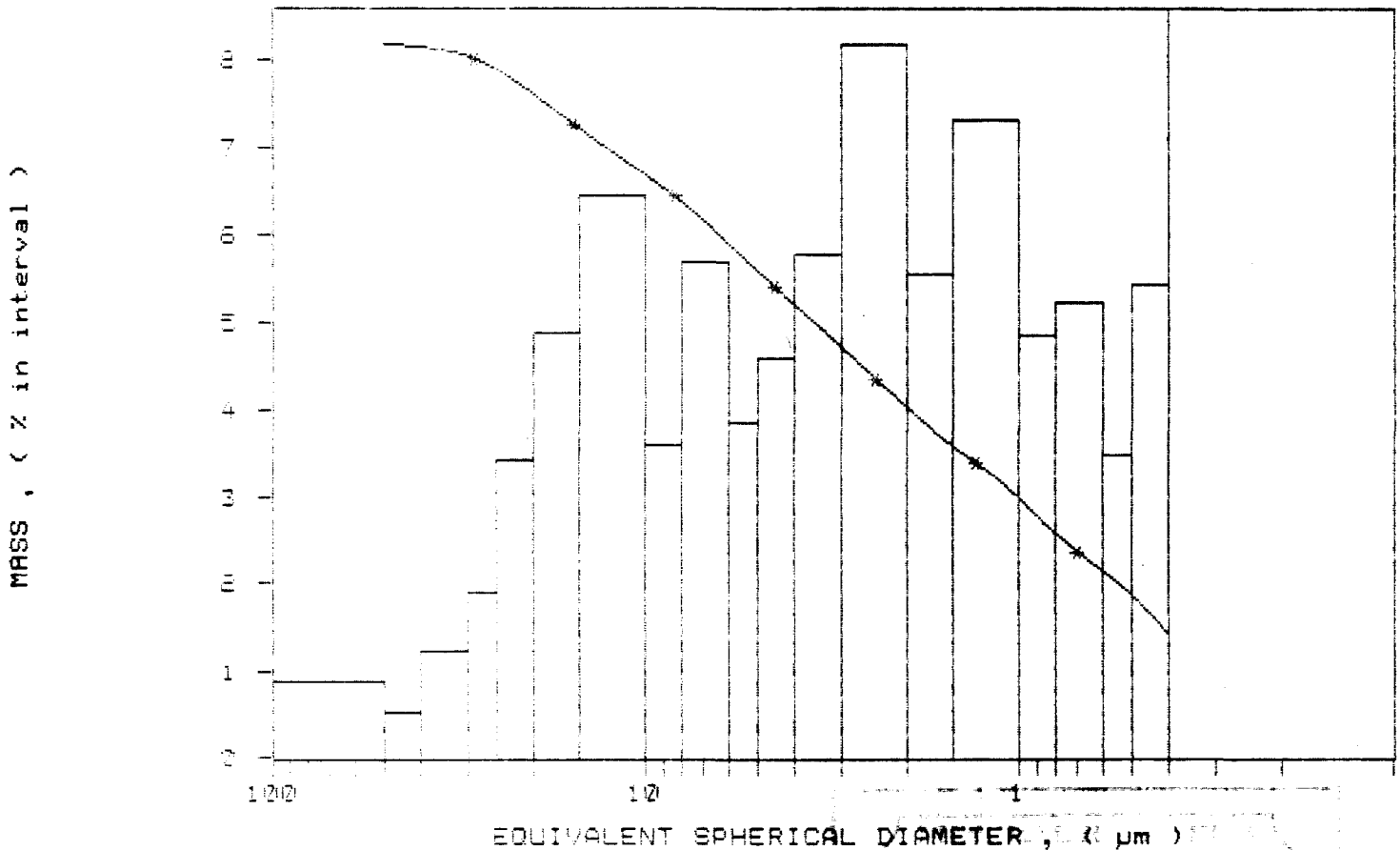


SAMPLE DIRECTORY/NUMBER: DATA5 /274
 SAMPLE ID: Hole 89-4 # 15573
 SUBMITTER: # 35
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 09:32:14 07/22/91
 REPT 09:39:57 07/22/91
 TOT RUN TIME 0:07:22
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7267 cp

RUN TYPE: High Speed

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



Handwritten signature and date: *KM* 7/22/91

Hole 89-4 # 15572

PAGE 1

SediGraph 5100 v2.08

SAMPLE DIRECTORY NUMBER: DATA5 /278
SAMPLE ID: Hole 89-4 # 15572
SUBMITTER: # 88
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 34.0 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 09:14:08 07/22/91
REPRT 09:21:50 07/22/91
TOT RUN TIME 0:07:19
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7269 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.95 μ m

MODAL DIAMETER: 2.52 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	102.5	-2.6
40.00	95.4	2.7
30.00	90.2	1.6
25.00	87.2	1.0
20.00	80.8	1.5
15.00	71.3	3.6
10.00	67.0	4.3
6.00	54.2	3.8
5.00	49.1	3.1
5.00	45.5	3.6
4.00	41.4	4.2
3.00	34.1	7.2
2.00	51.7	12.4
1.50	46.6	5.1
1.00	27.7	6.7
0.80	35.5	4.4
0.50	33.2	7.2
0.50	25.7	4.5
0.40	19.0	4.7

**MINERAL RESEARCH
CANADA**
1 INDUSTRIAL BLVD. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8

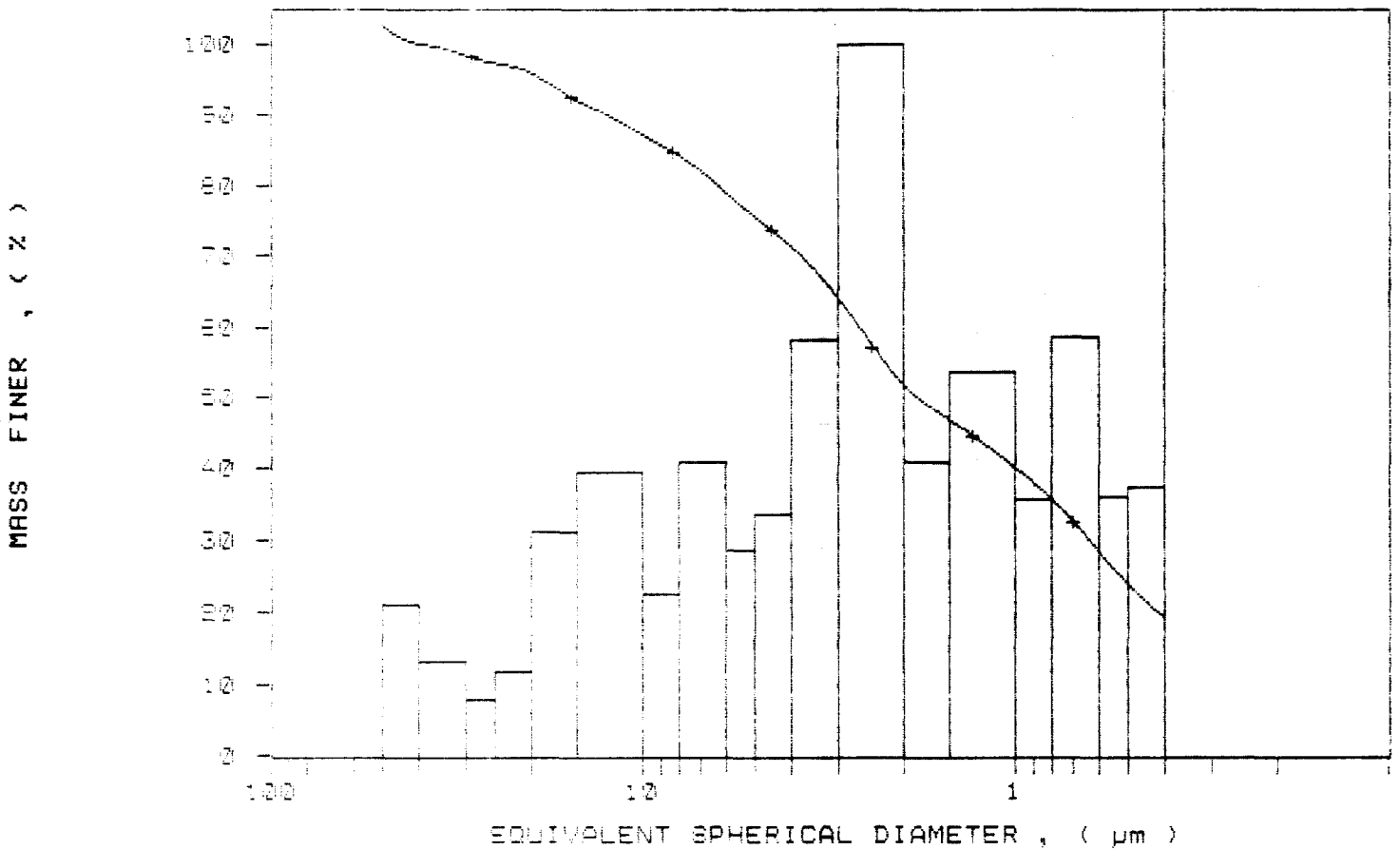
FAX (705) 378-5123 TEL (705) 378-2416

DATE *Alm*

SAMPLE DIRECTORY/NUMBER: DATA5 /273
 SAMPLE ID: hole 89-4 # 15572
 SUBMITTER: # 30
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 09:14:08 07/22/91
 REPR 09:21:50 07/22/91
 TOT RUN TIME 0:07:19
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7269 cp

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

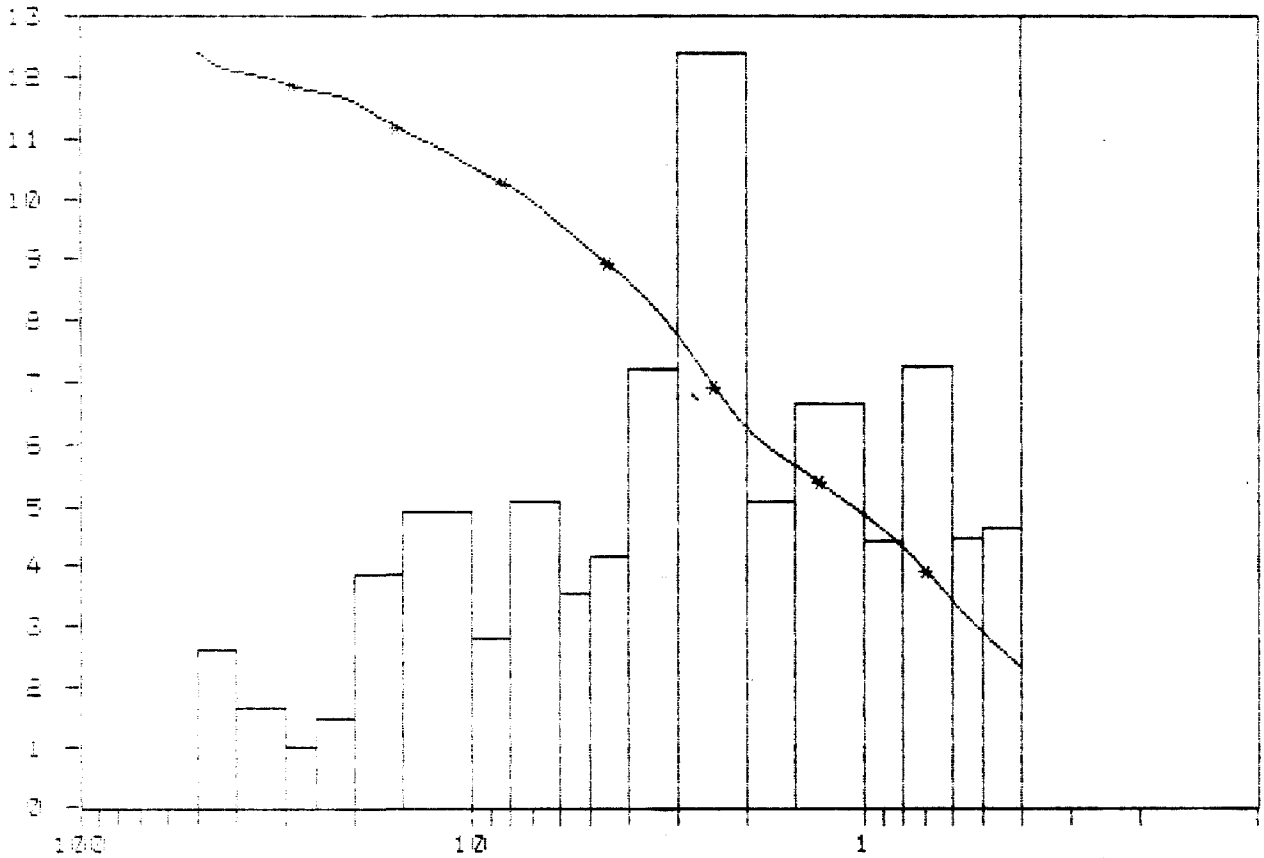


SAMPLE DIRECTORY NUMBER: DATA5 /273
 SAMPLE ID: Hole 89-4 # 15372
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 09:14:08 07/22/91
 REPT 09:21:50 07/22/91
 TOT RUN TIME 0:07:19
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7269 cp

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

MASS, (% in interval)



EQUIVALENT SPHERICAL DIAMETER, (µm)

LABORATORY
 SEDI-MENTATION
 ANALYSIS
 DATE: 07/22/91
 TIME: 09:21:50
 OPERATOR: KM
 SAMPLE: DATA5 /273
 HOLE: 89-4 # 15372
 UNIT: 1
 ANALYSIS TEMP: 24.7 deg C
 RUN TYPE: High Speed
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7269 cp
 TOT RUN TIME: 0:07:19
 START: 09:14:08 07/22/91
 REPT: 09:21:50 07/22/91

Hole 89-4 # 15571

Seabroch 510w v2.0s

PAGE 1

SAMPLE DIRECTOR/DRIVER/ANALYST: DATAS /ETE
 SAMPLE ID: Hole 89-4 # 15571
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 08:50:57 07/22/91
 REPT 09:02:48 07/22/91
 TOT RUN TIME 0:07:19
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7272 cp

STARTING DIAMETER: 50.80 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 9.10 μ m

MODAL DIAMETER: 11.57 μ m

DIAMETER (μ m)	CUMULATIVE Mass FINER (%)	MASS IN INTERVAL (%)
50.00	95.0	4.0
40.00	97.1	-1.6
30.00	94.5	2.7
25.00	91.1	3.4
20.00	88.9	2.2
15.00	78.6	7.2
10.00	68.5	10.3
8.00	61.4	4.5
6.00	57.1	6.3
5.00	50.5	3.6
4.00	49.0	3.9
3.00	44.3	4.7
2.00	37.7	7.1
1.50	22.6	3.2
1.00	27.2	5.0
0.80	24.0	2.6
0.60	21.0	3.9
0.50	18.2	2.8
0.40	14.5	3.6

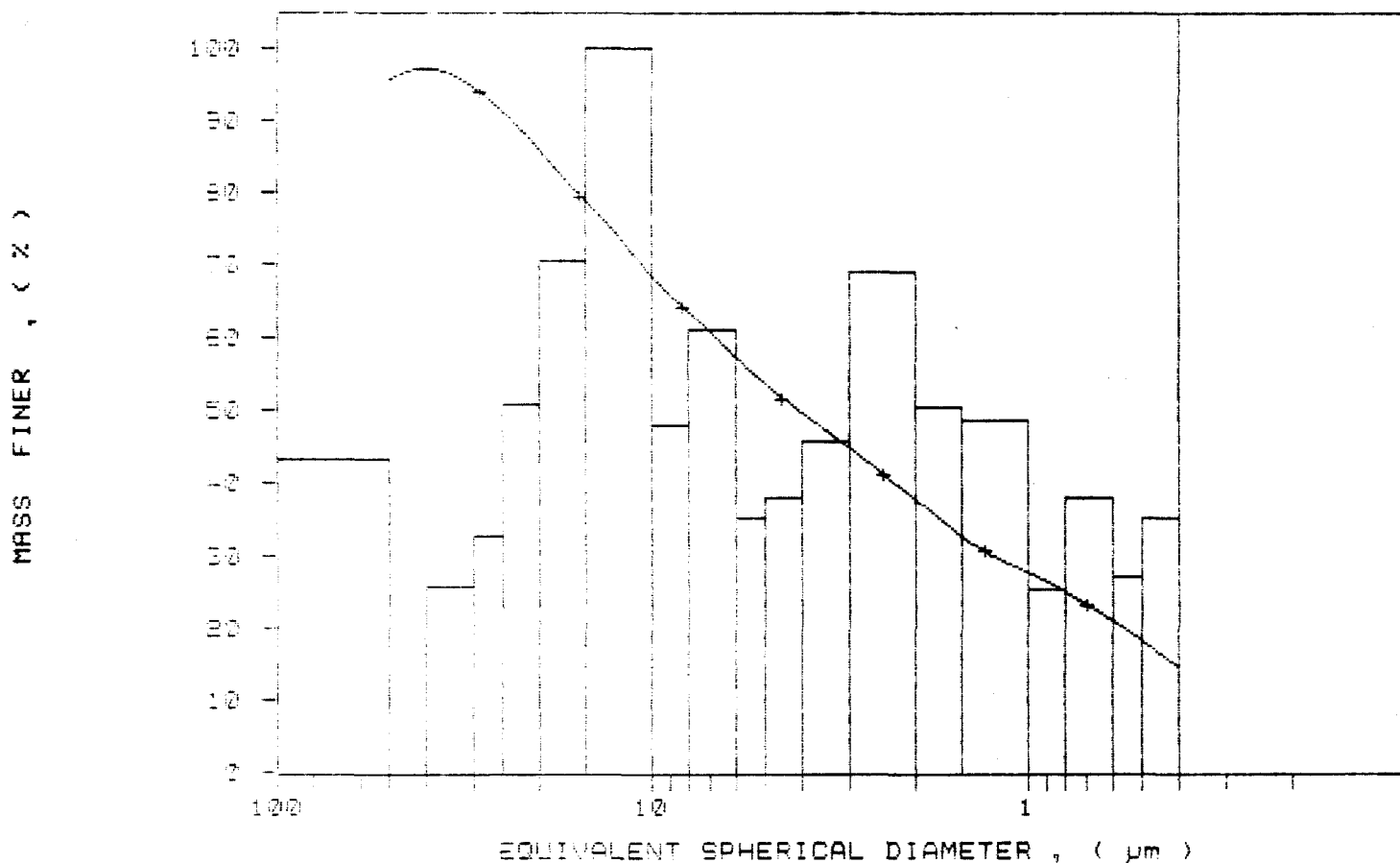
**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 HARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 *[Signature]* (705) 378-2416
 DATE

SAMPLE DIRECTORY NUMBER: DATA5 /272
SAMPLE ID: Note 89-4 # 15571
SUBMITTER: # 87
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 08:50:57 07/22/91
REPRT 09:02:48 07/22/91
TOT RUN TIME 0:07:19
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7272 cp

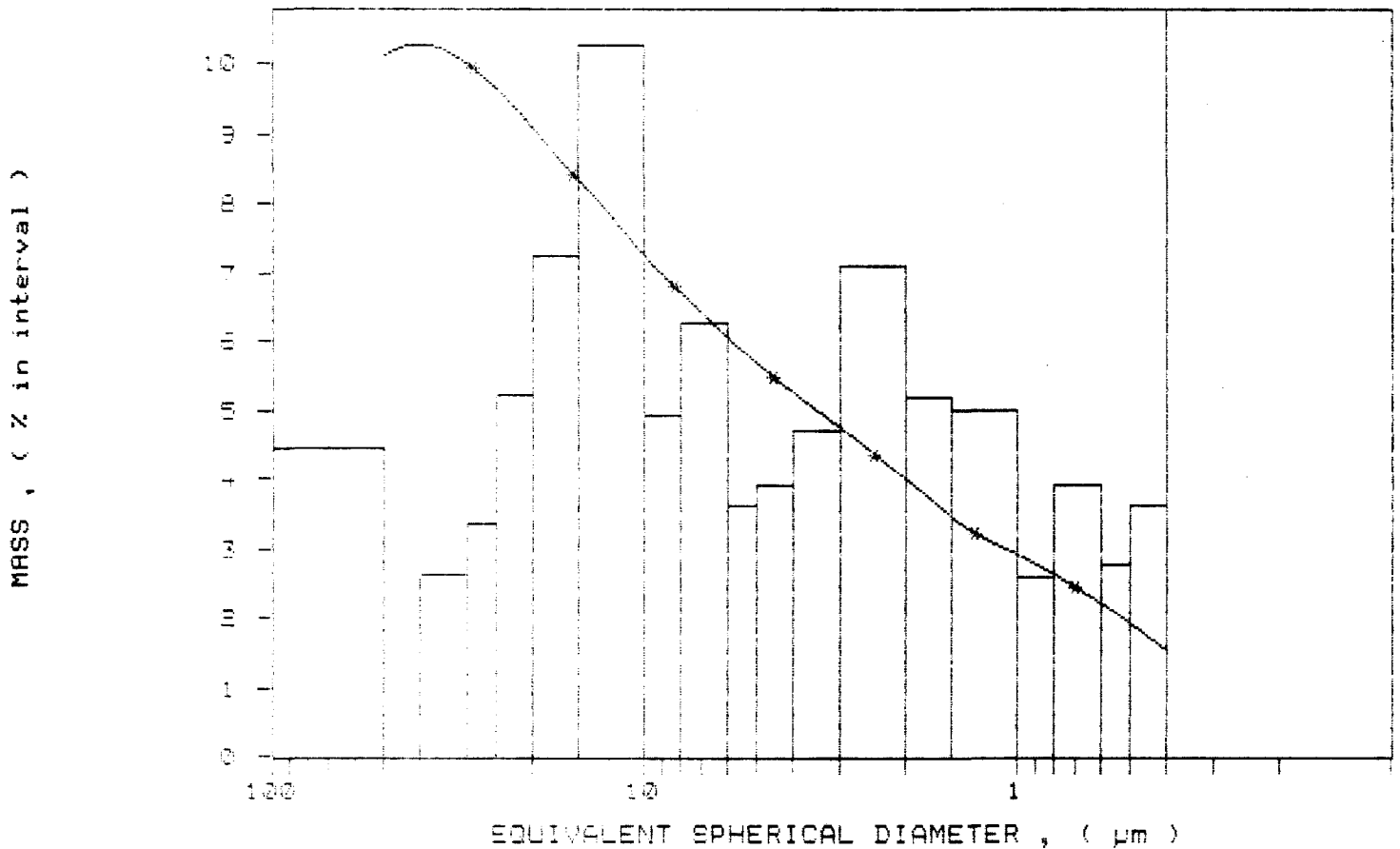
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAS /272
SAMPLE ID: Hole 89-4 # 15571
SUBMITTER: # 89
OPERATOR: RM
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 08:50:57 07/22/91
REPRT 09:02:48 07/22/91
TOT RUN TIME 0:07:19
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7272 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /271
 SAMPLE ID: Hole 89-4 # 15570
 SUBMITTER: # 95
 OPERATOR: km
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.8 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:52:55 07/17/91
 REPRT 15:08:48 07/17/91
 TOT RUN TIME 0:07:13
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7277 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

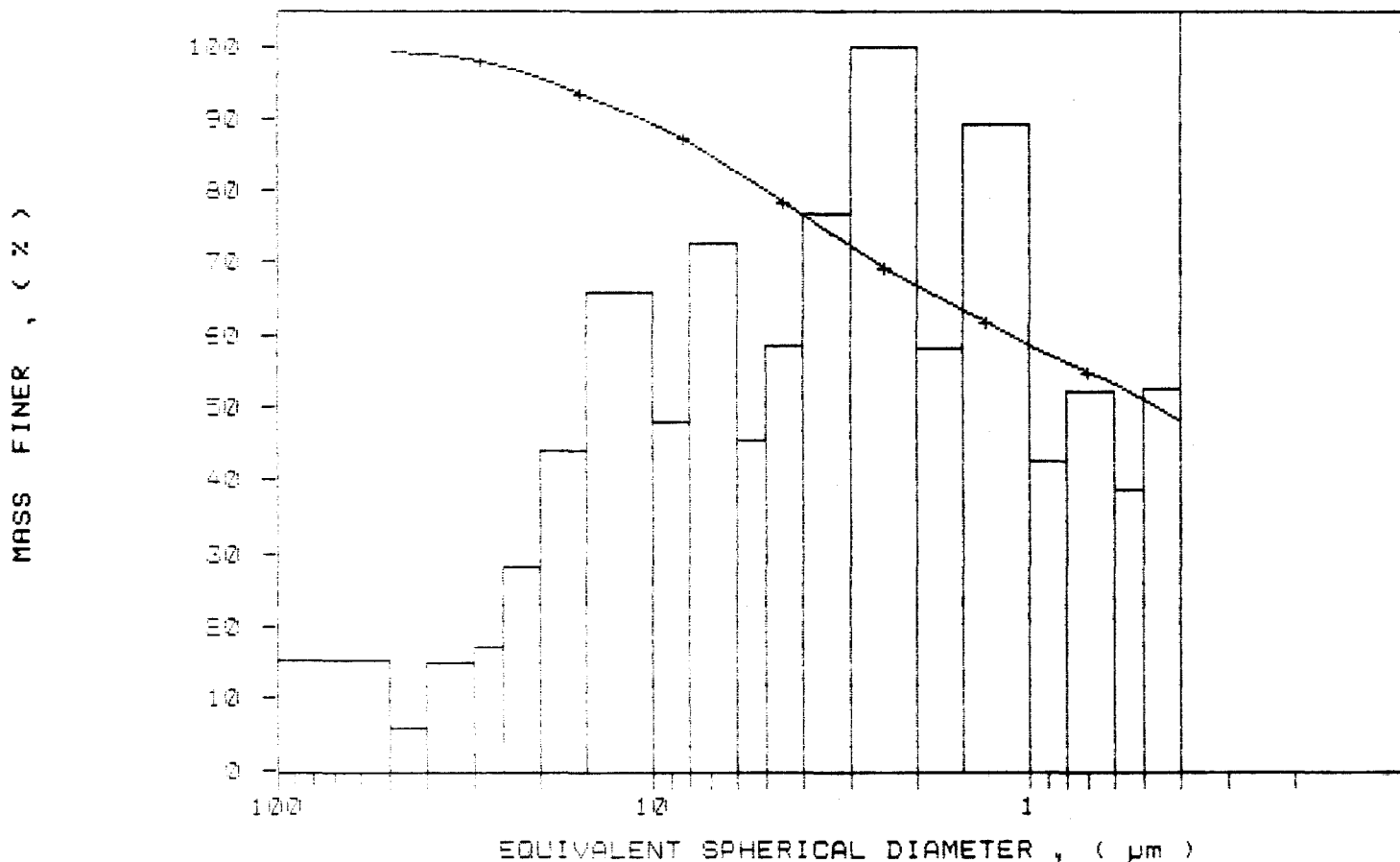
MEDIAN DIAMETER: 0.46 μ m MODAL DIAMETER: 2.97 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.1	0.9
40.00	96.8	0.8
30.00	97.3	0.8
25.00	97.0	1.0
20.00	95.4	1.6
15.00	93.0	2.3
10.00	89.2	3.7
8.00	86.6	2.7
6.00	82.5	4.1
5.00	79.9	2.6
4.00	76.7	3.2
3.00	72.4	4.3
2.00	65.8	6.6
1.50	63.5	2.3
1.00	58.5	5.0
0.80	56.1	2.4
0.60	53.2	2.9
0.50	51.0	2.2
0.40	46.1	5.0



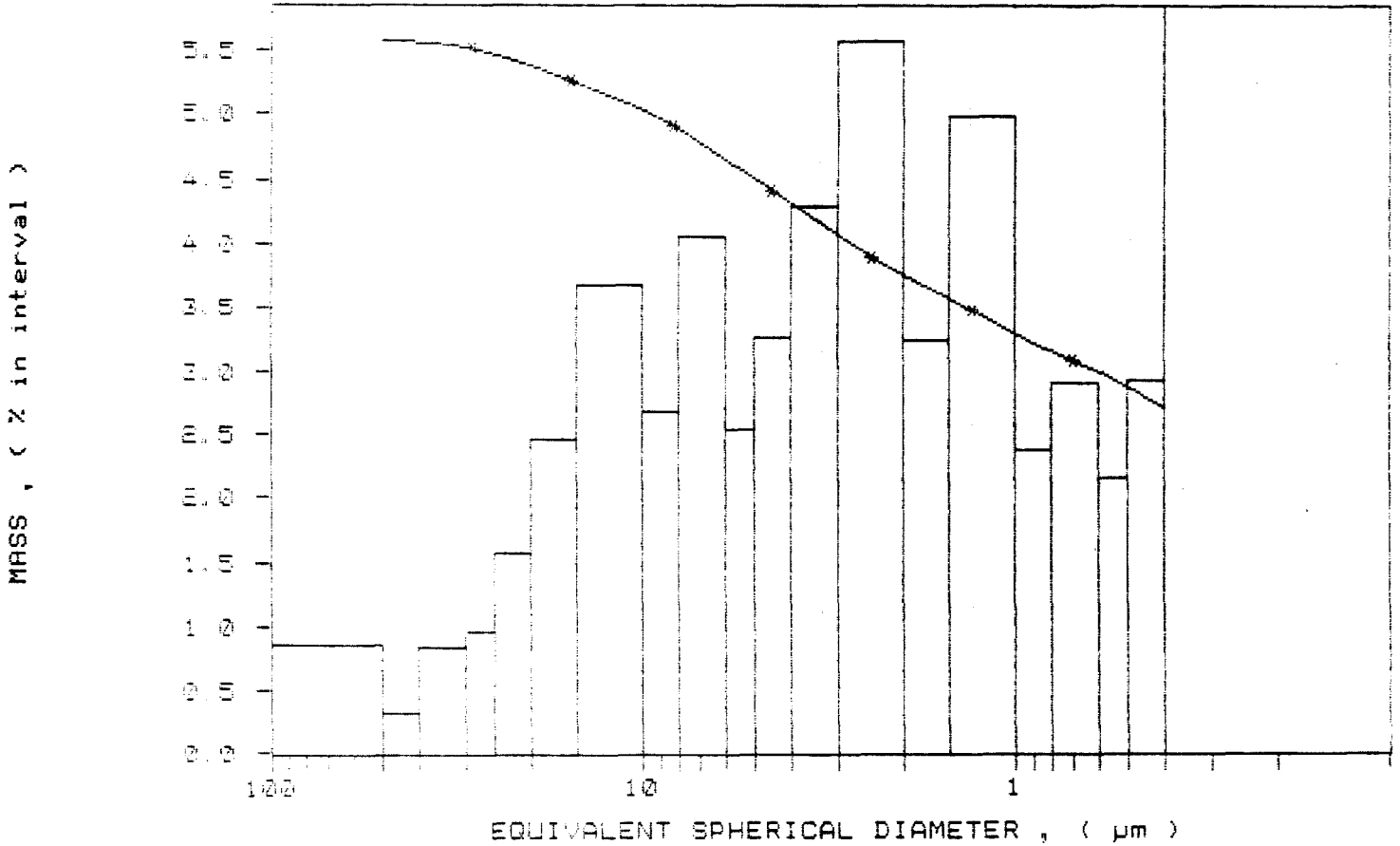
SAMPLE DIRECTORY NUMBER: DATAS	7271	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15570		START 14:52:55 07/17/91
SUBMITTER: # 89		REPT 15:08:48 07/17/91
OPERATOR: km		TOT RUN TIME 0:07:13
SAMPLE TYPE: Clay		SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water		LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 25.0 deg C	RUN TYPE: High Speed	LIQ VISC: 0.7277 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /271	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 C 15570	START 14:52:55 07/17/91
SUBMITTER: # 39	REPRT 15:08:48 07/17/91
OPERATOR: Km	TOT RUN TIME 0:07:13
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.8 deg C	LIQ VISC: 0.7277 cp
RUN TYPE: High Speed	

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



[Handwritten signature]

SAMPLE DIRECTORY/NUMBER: DATAS /270
 SAMPLE ID: Hole 89-4 3 15569
 SUBMITTER: # 39
 OPERATOR: dm
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 54.6 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:26:34 07/17/91
 REPT 14:46:37 07/17/91
 TOT RUN TIME 0:07:18
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7277 cp

STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.07 µm MODAL DIAMETER: 4.09 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.7	0.3
40.00	98.6	0.9
30.00	95.0	2.8
25.00	94.0	2.0
20.00	91.2	2.7
15.00	87.4	3.9
10.00	82.2	5.2
8.00	78.7	3.5
6.00	72.2	6.4
5.00	69.2	4.0
4.00	64.1	5.2
3.00	57.4	6.6
2.00	49.3	8.1
1.50	43.6	5.7
1.00	35.1	8.6
0.80	30.4	4.7
0.60	25.2	5.2
0.50	22.9	2.3
0.40	13.6	9.7

**MINERAL RESEARCH
 CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5123
 TEL (705) 378-2416
 DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /270

UNIT NUMBER: 1

SAMPLE ID: Hole 89-4 @ 15569

START 14:26:34 07/17/91

SUBMITTER: # 99

REPRT 14:46:37 07/17/91

OPERATOR: km

TOT RUN TIME 0:07:18

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

LIQUID TYPE: water

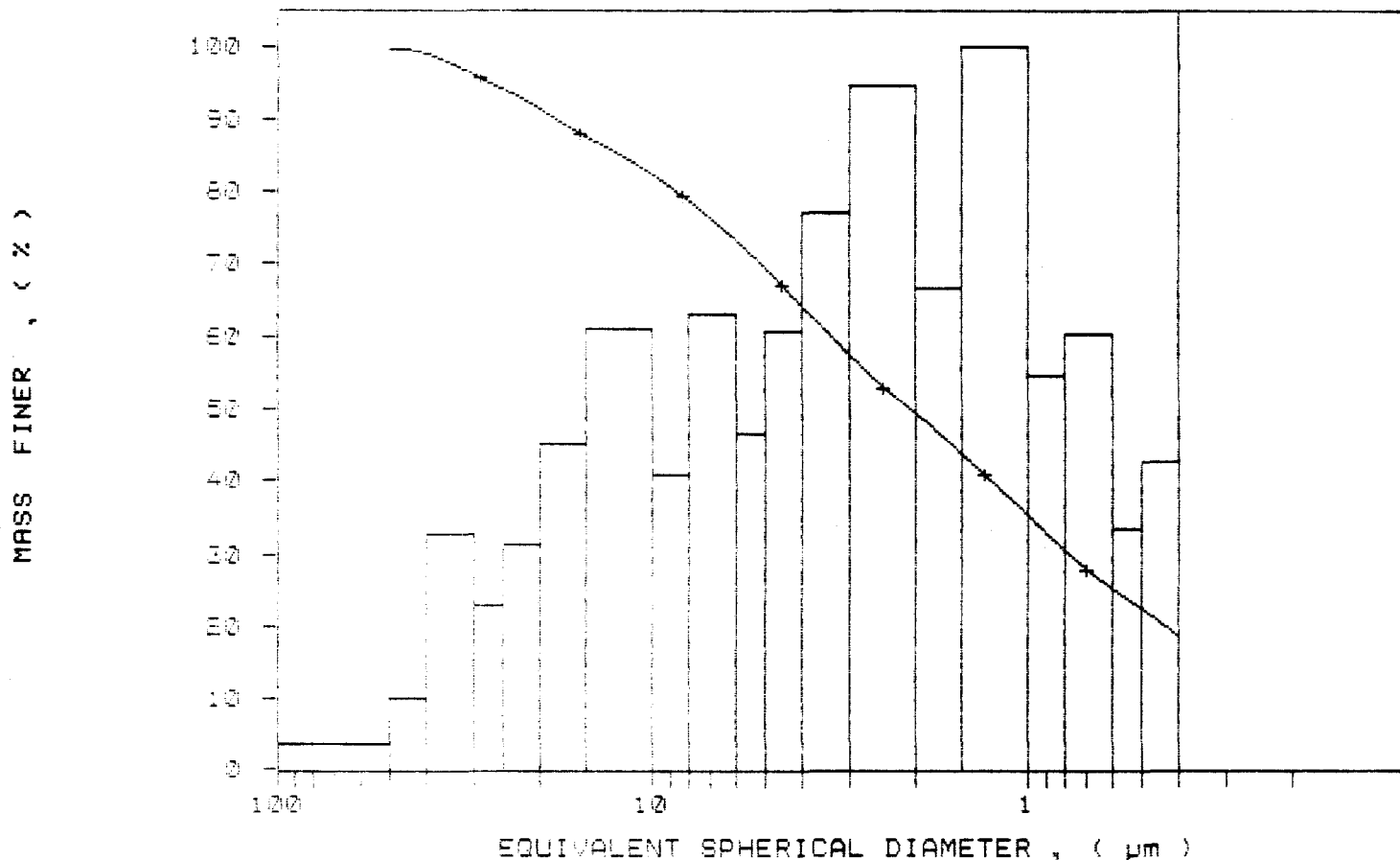
LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 24.6 deg C

RUN TYPE: High Speed

LIQ VISC: 0.7277 cp

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



SAMPLE DIRECTORY/NUMBER: DATAS /270

SAMPLE ID: Hole 89-4 3 15569

SUBMITTER: # 39

OPERATOR: km

SAMPLE TYPE: Clay

LIQUID TYPE: water

ANALYSIS TEMP: 24.6 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 14:26:34 07/17/91

REPT 14:46:37 07/17/91

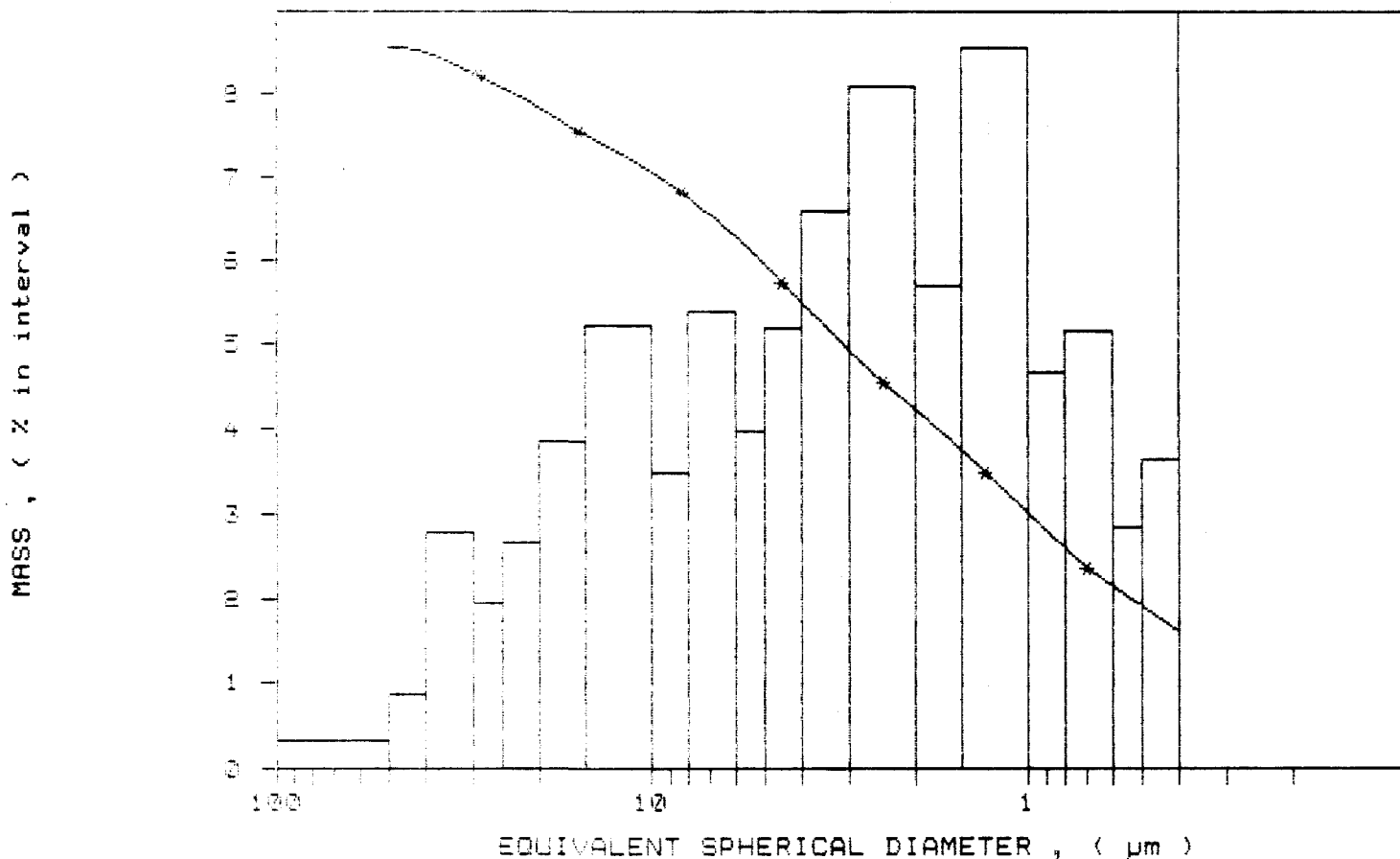
TOT RUN TIME 0:07:18

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7277 cp

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



LABORATORY
 ANALYSIS
 DATE: 07/17/91
 TIME: 14:46:37
 OPERATOR: km
 UNIT NUMBER: 1
 SAMPLE ID: Hole 89-4 3 15569
 SUBMITTER: # 39
 ANALYSIS TEMP: 24.6 deg C
 RUN TYPE: High Speed
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7277 cp
 TOT RUN TIME 0:07:18
 START 14:26:34 07/17/91
 REPT 14:46:37 07/17/91

SediGraben 5100 VE.02

Hole 89-4 # 15568

PAGE 1

SAMPLE DIRECTORY NUMBER: DATAS /269
 SAMPLE ID: Hole 89-4 # 15568
 SUBMITTER: # 33
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 64.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:08:24 07/17/91
 REPRT 14:29:26 07/17/91
 TOT RUN TIME 0:07:12
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7275 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 4.66 μ m MASS DISTRIBUTION

MODAL DIAMETER: 0.41 μ m

DIAMETER (μ m)	CUMULATIVE PERCENT FINER (%)	MASS IN INTERVAL (%)
50.00	35.6	0.4
40.00	36.6	1.0
30.00	37.3	0.7
25.00	37.1	0.2
20.00	35.5	1.6
15.00	33.2	2.1
10.00	29.2	6.0
6.25	27.0	7.8
6.00	25.1	18.0
5.00	20.5	35.6
4.00	16.5	35.0
3.00	11.5	43.0
2.00	6.5	50.0
1.50	61.7	4.1
1.00	55.6	6.0
0.75	53.1	2.5
0.60	49.2	3.9
0.50	46.4	2.8
0.40	42.4	4.0

**MINERAL RESEARCH
CANADA**

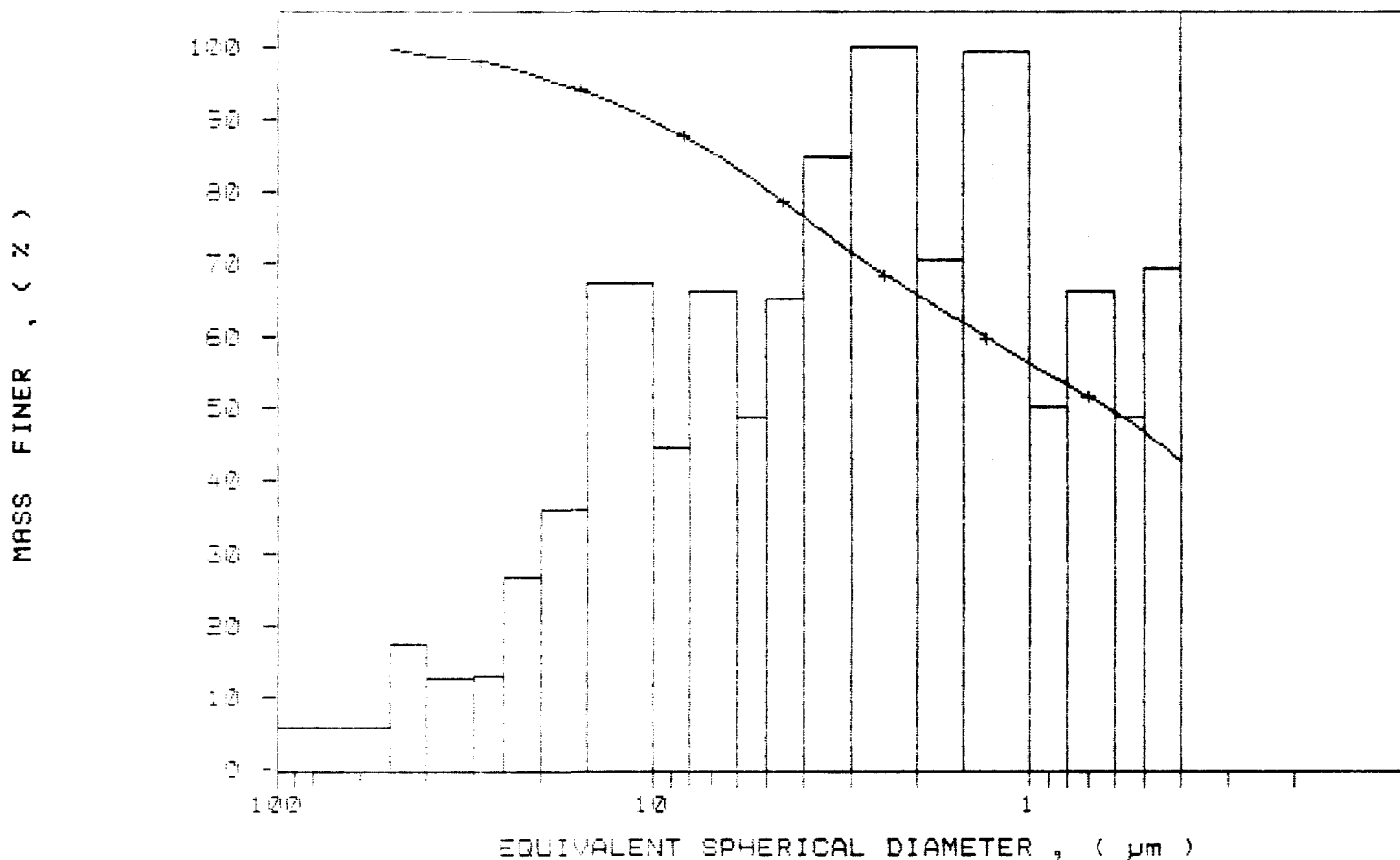
1 INDUSTRIAL BLVD. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *dm*

SAMPLE DIRECTORY/NUMBER: DATAS	7269	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15568		START 14:08:24 07/17/91
SUBMITTER: # 39		REPRT 14:29:26 07/17/91
OPERATOR: NM		TOT RUN TIME 0:07:12
SAMPLE TYPE: Clay		SAM DENS: 2.6000 g/cc
LIQUID TYPE: water		LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	RUN TYPE: High Speed	LIQ VISC: 0.7275 cp

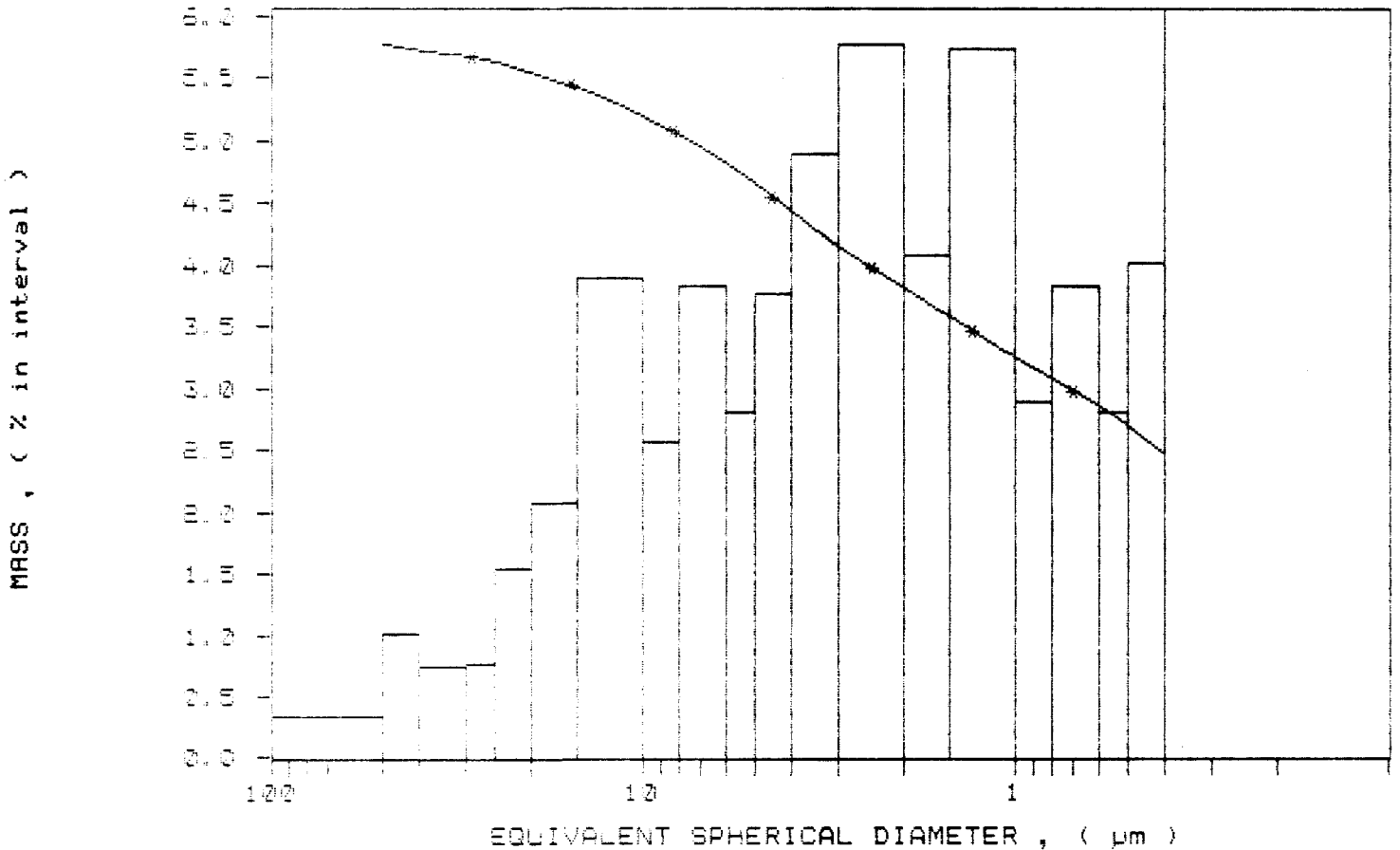
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAS 7269
SAMPLE ID: Hole 89-4 # 15568
SUBMITTER: # 35
OPERATOR: FM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 14:08:24 07/17/91
REPT 14:29:26 07/17/91
TOT RUN TIME 0:07:12
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7275 cp

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



SediGrason 5100 v2.00

Hole 89-4 # 15567

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /268
 SAMPLE ID: Hole 89-4 # 15567
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:33:12 07/17/91
 REPT 12:53:07 07/17/91
 TOT RUN TIME 0:07:18
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7275 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.50 μ m

MODAL DIAMETER: 3.70 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.9	0.1
40.00	99.6	0.3
30.00	98.1	0.5
25.00	96.2	1.4
20.00	94.4	2.4
15.00	90.4	3.9
10.00	84.1	6.3
8.00	79.5	4.6
6.00	72.6	6.7
5.00	68.0	4.6
4.00	62.5	5.7
3.00	55.2	7.3
2.00	47.0	8.2
1.50	41.4	5.1
1.00	36.4	5.0
0.80	30.6	6.6
0.50	18.1	4.2
0.30	10.3	2.7
0.40	19.7	0.4

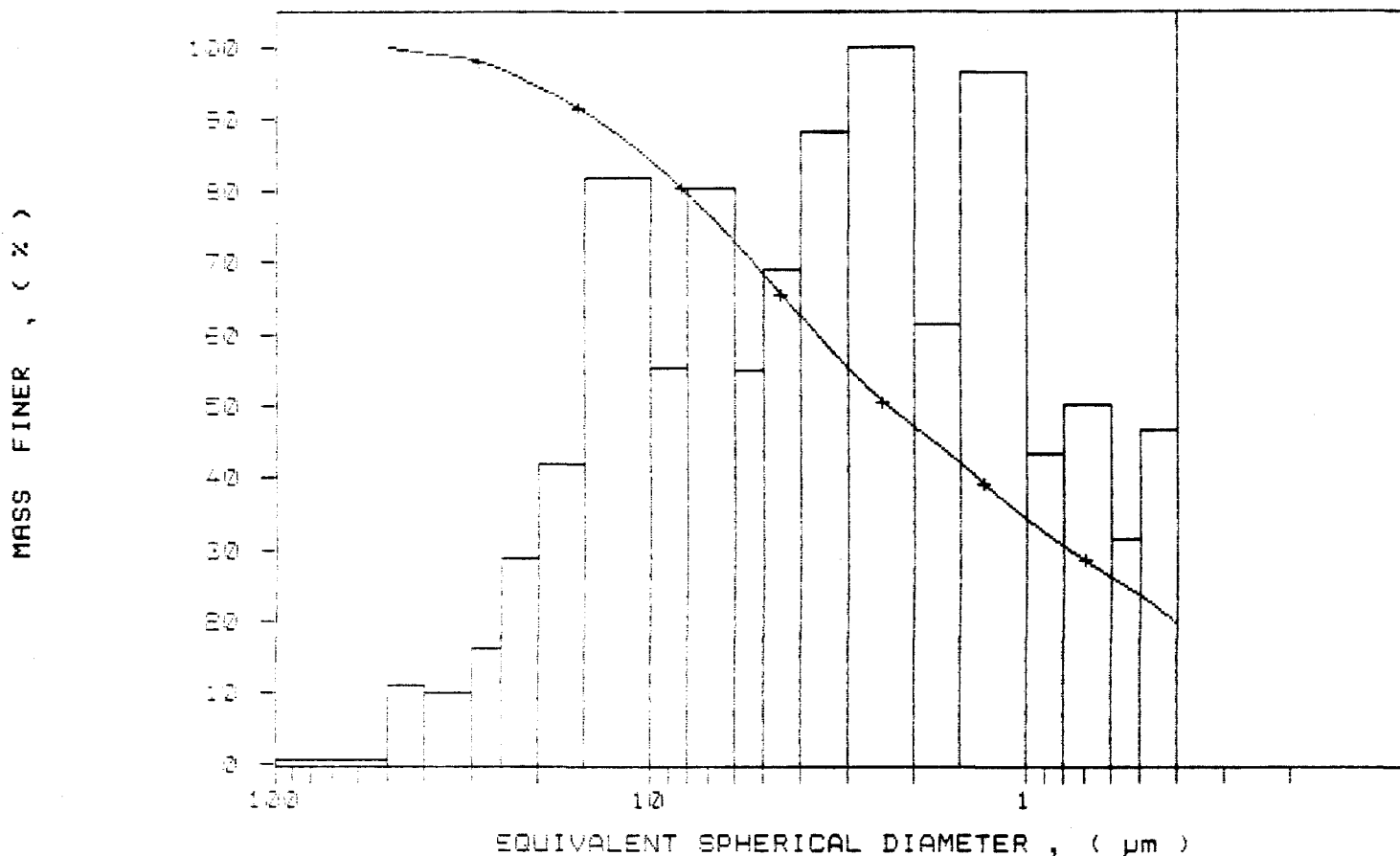
**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W3

FAX (705) 378-5123 BUS (705) 378-2416

DATE *[Signature]*

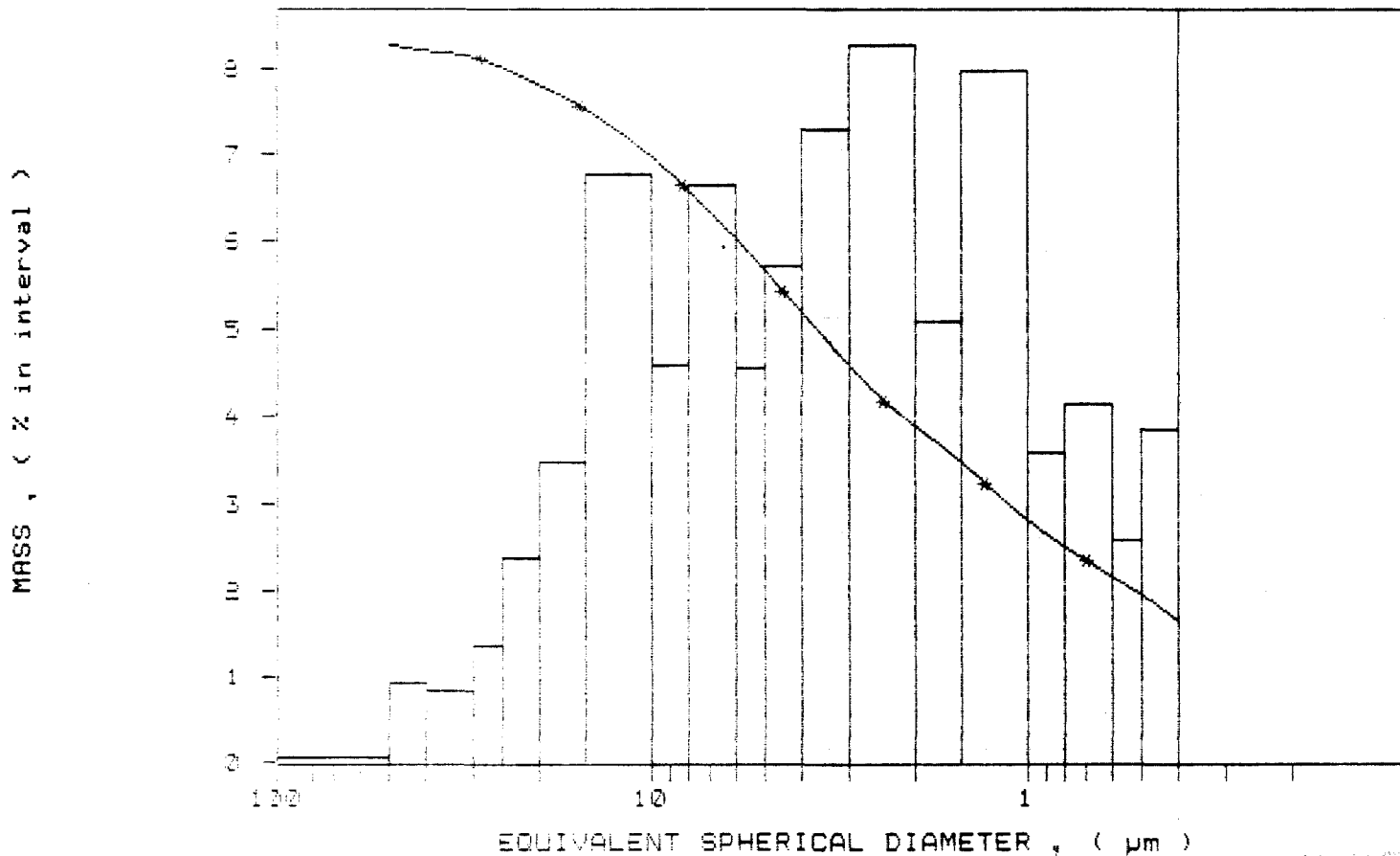
SAMPLE DIRECTORY/NUMBER: DATA5 /268	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15567	START 12:33:12 07/17/91
SUBMITTER: # 35	REPRT 12:53:07 07/17/91
OPERATOR: NM	TOT RUN TIME 0:07:18
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	LIQ VISC: 0.7276 cp
RUN TYPE: High Speed	

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



SAMPLE DIRECTORY/NUMBER: DATAS /258	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15567	START 12:33:12 07/17/91
SUBMITTER: # 35	REPT 12:53:07 07/17/91
OPERATOR: KM	TOT RUN TIME 0:07:18
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 24.7 deg C	LIQ VISC: 0.7276 cp
RUN TYPE: High Speed	

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



[Handwritten signature and notes]

SAMPLE DIRECTORY/NUMBER: DATA5 /267 UNIT NUMBER: 1
 SAMPLE ID: Hole 89-4 # 15566 START 10:49:35 07/17/91
 SUBMITTER: # 32 REPRT 11:09:45 07/17/91
 OPERATOR: KM TOT RUN TIME 0:07:35
 SAMPLE TYPE: Clay SAM DENS: 2.6000 g/cc
 LIQUID TYPE: Water LIQ DENS: 0.9942 g/cc
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed LIQ VISC: 0.7273 cp

STARTING DIAMETER: 50.00 µm REYNOLDS NUMBER: 0.21
 ENDING DIAMETER: 0.40 µm FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.62 µm MODAL DIAMETER: 3.18 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	45.6	4.2
40.00	35.4	0.4
30.00	28.5	1.9
25.00	21.3	1.7
20.00	13.6	2.1
15.00	6.7	2.7
10.00	2.6	5.0
8.00	73.3	3.2
6.00	75.1	5.7
5.00	69.0	4.1
4.00	64.4	4.6
3.00	57.9	6.6
2.00	43.5	6.4
1.50	44.7	4.7
1.00	33.0	6.7
0.80	24.7	3.8
0.60	20.5	4.1
0.50	22.0	2.5
0.40	14.3	6.7

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W3

FAX (705) 378-5123 BUS (705) 378-2416

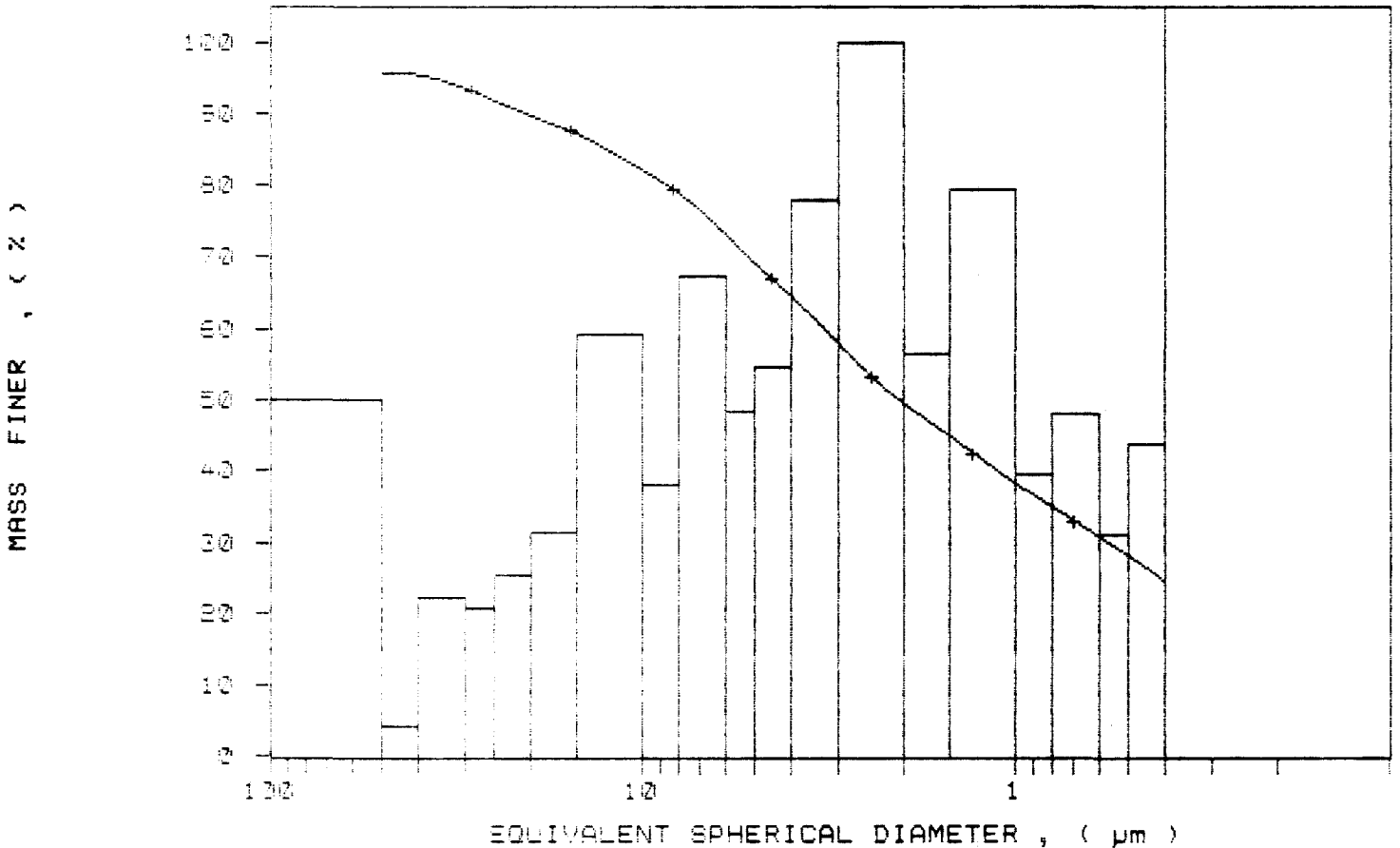
DATE *DM*

SAMPLE DIRECTORY/NUMBER: DATAS 7257
 SAMPLE ID: Hole 89-4 # 15566
 SUBMITTER: # 39
 OPERATOR: NM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 10:49:35 07/17/91
 REPT 11:09:45 07/17/91
 TOT RUN TIME 0:07:35
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7273 cp

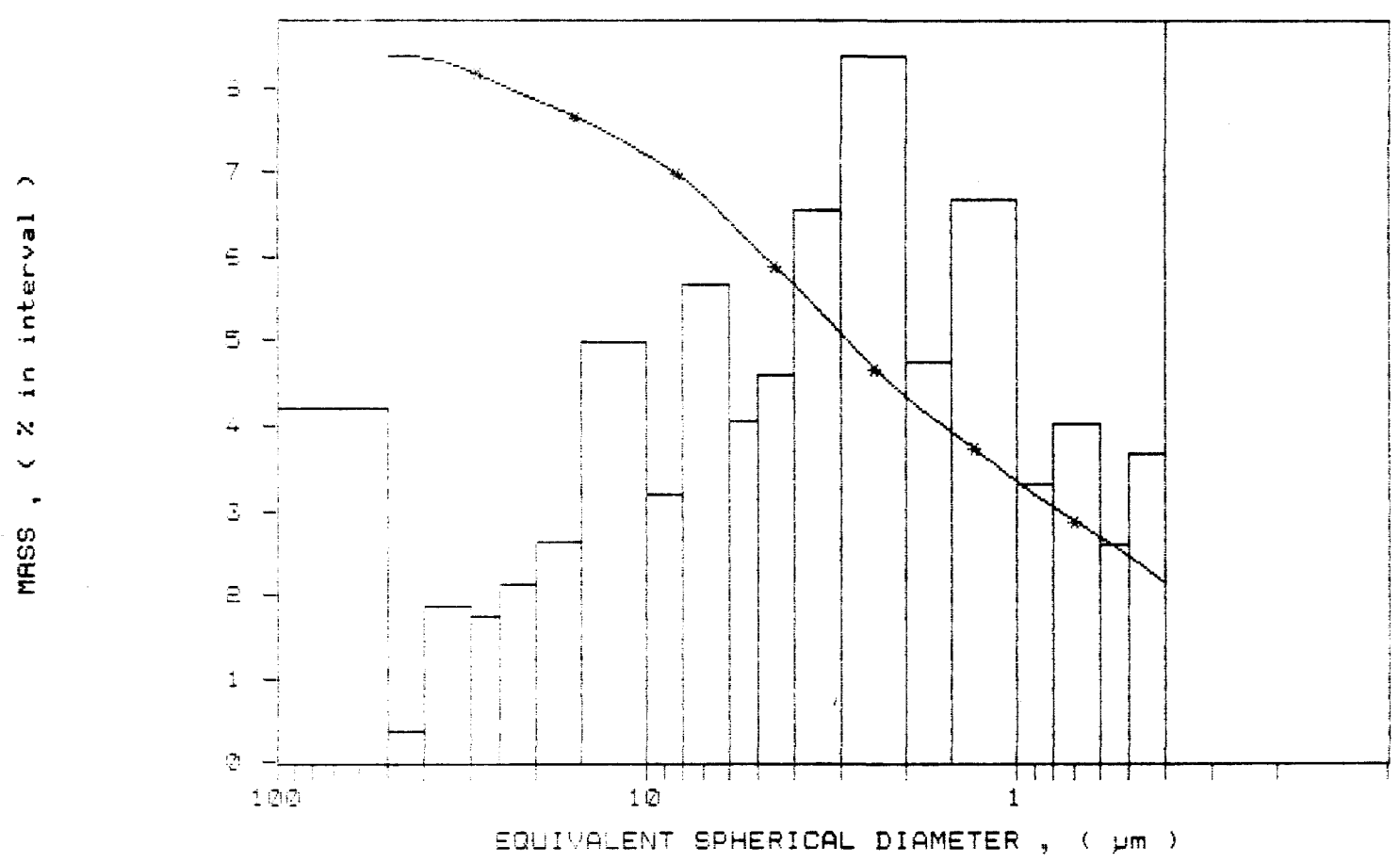
RUN TYPE: High Speed

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



SAMPLE DIRECTORY/NUMBER: DATAS /267
SAMPLE ID: Hole 89-4 # 15566
SUBMITTER: # 89
OPERATOR: RM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 24.7 deg C
UNIT NUMBER: 1
START 10:49:35 07/17/91
REPT 11:09:45 07/17/91
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7273 cp
RUN TYPE: High Speed

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



[Faint, illegible text or signature]

SAMPLE DIRECTORY/NUMBER: DATA5 /266
 SAMPLE ID: Hole 89-4 # 15565
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.8 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 09:14:14 07/17/91
 REPT 09:30:09 07/17/91
 TOT RUN TIME 0:07:16
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7249 cp

STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 11.29 µm MODAL DIAMETER: 0.40 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
40.00	37.0	3.0
30.00	56.1	0.9
25.00	65.1	1.0
20.00	76.1	1.0
15.00	83.7	3.4
10.00	84.3	0.2
8.00	81.6	2.5
6.00	73.9	5.6
5.00	72.3	1.4
4.00	66.4	4.0
3.00	66.4	0.1
2.00	57.5	5.9
1.50	52.7	4.2
1.00	46.3	7.4
0.80	41.7	6.6
0.60	26.1	6.6
0.50	25.0	3.1
0.40	26.0	5.0

**MINERAL RESEARCH
 CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

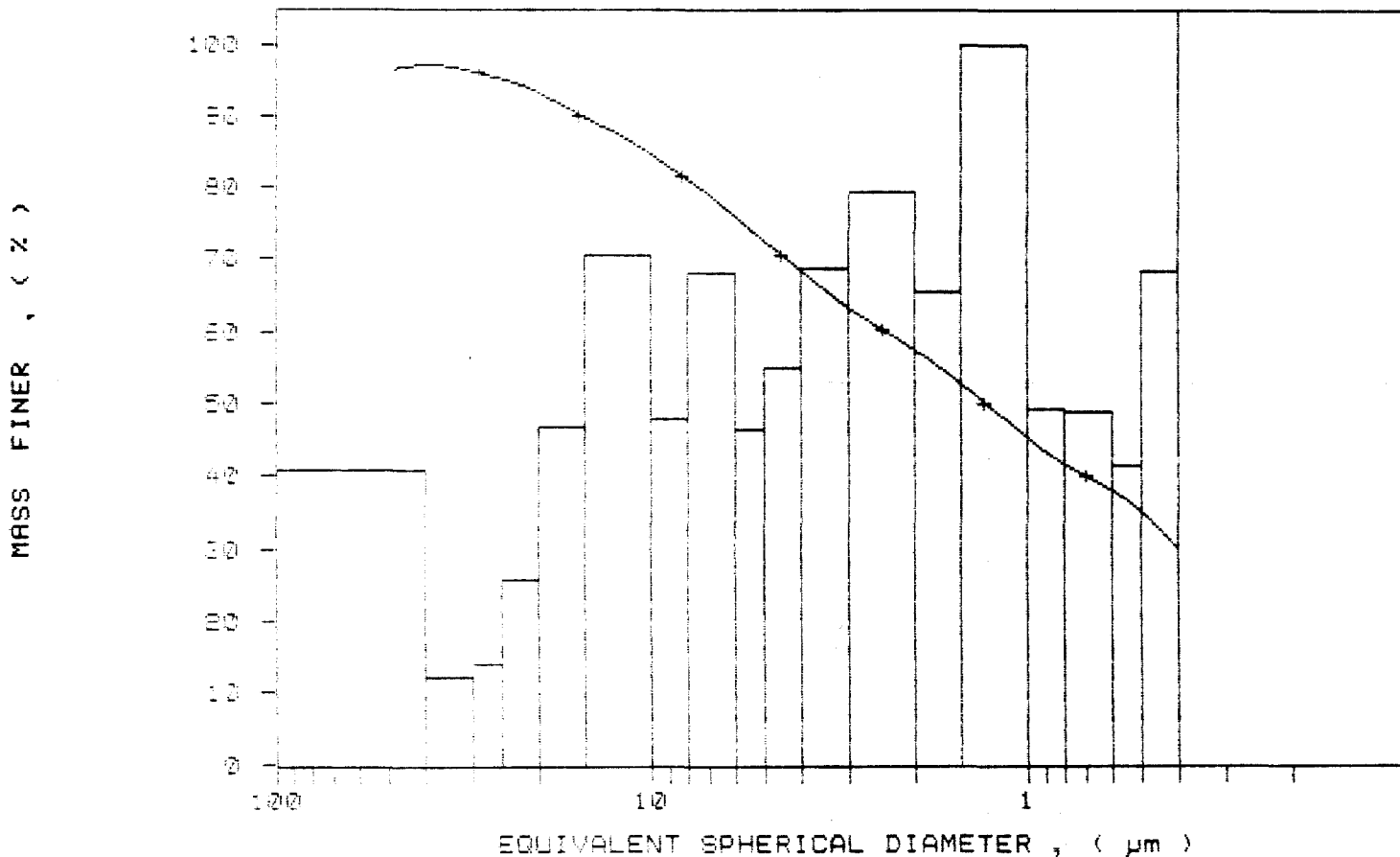
FAX (705) 378-5123 BUS (705) 378-2416

DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /266
SAMPLE ID: Hole 89-4 # 15565
SUBMITTER: # 32
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.0 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 09:14:14 07/17/91
REPT 09:30:09 07/17/91
TOT RUN TIME 0:07:16
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7249 cp

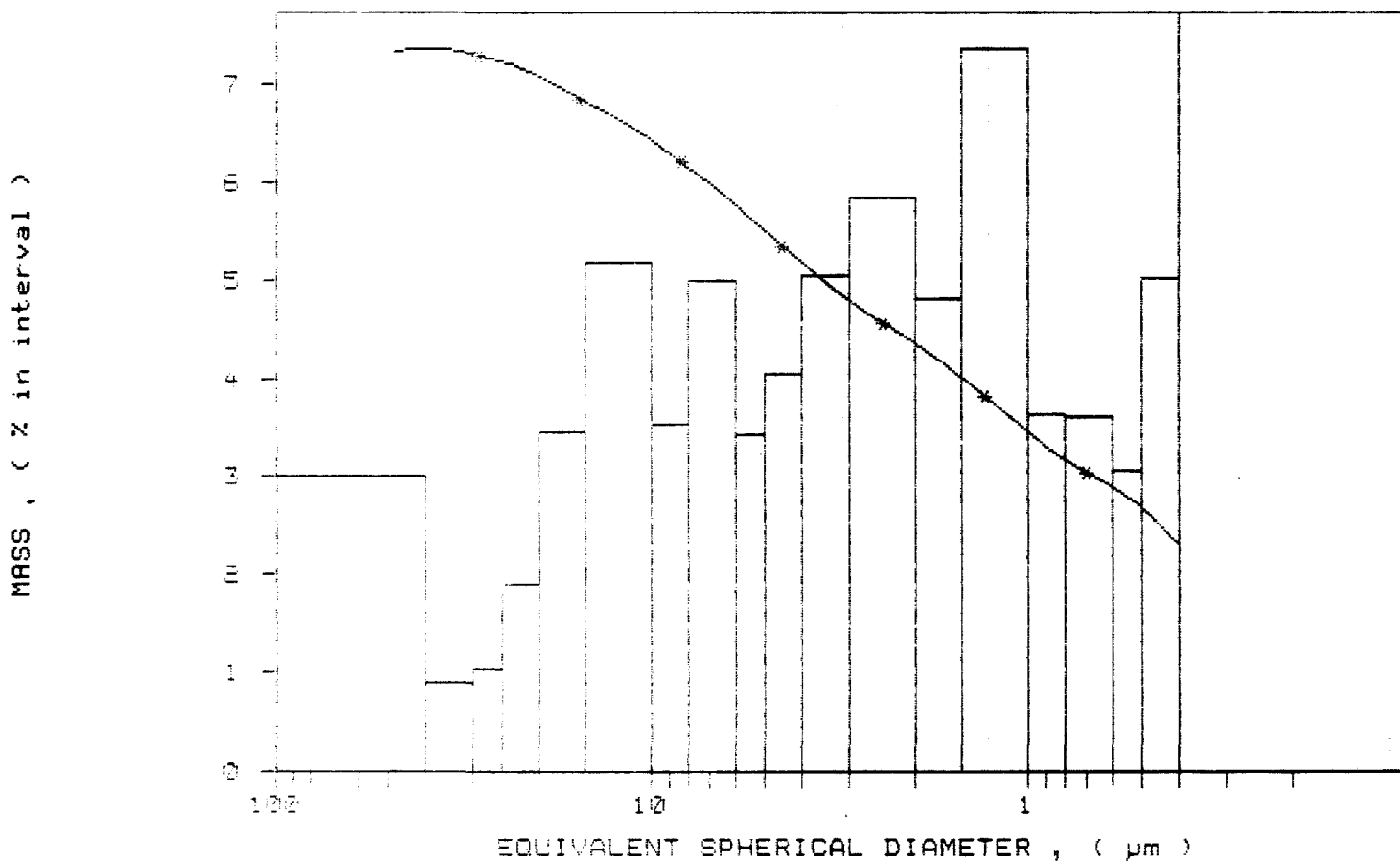
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /266
SAMPLE ID: Hole 89-4 # 15565
SUBMITTER: # 99
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.8 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 09:14:14 07/17/91
REPT 09:30:09 07/17/91
TOT RUN TIME 0:07:16
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7249 cp

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



LABORATORY REPORT
DATE: 07/17/91
TIME: 09:30:09
OPERATOR: KM
SAMPLE ID: DATA5 /266
HOLE: 89-4 # 15565
UNIT: 1
START: 09:14:14
REPT: 09:30:09
TOT RUN TIME: 0:07:16
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7249 cp
[Handwritten signature]

SAMPLE DIRECTORY/NUMBER: DATAS /265
 SAMPLE ID: Hole 89-4 # 15564
 SUBMITTER: # 35
 OPERATOR: HM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.0 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 08:53:06 07/17/91
 REPR 09:13:33 07/17/91
 TOT RUN TIME 0:07:18
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7261 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.65 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.8	2.2
40.00	95.6	-1.2
30.00	97.6	1.2
25.00	96.5	1.2
20.00	94.1	2.4
15.00	90.8	3.4
10.00	65.5	5.2
8.00	21.4	4.2
6.00	75.5	5.8
5.00	71.4	4.2
4.00	66.2	5.1
3.00	26.5	5.8
2.00	58.3	7.2
1.50	48.2	5.0
1.00	41.3	7.0
0.80	37.0	5.7
0.60	30.8	4.1
0.50	30.4	3.0
0.40	25.2	5.3

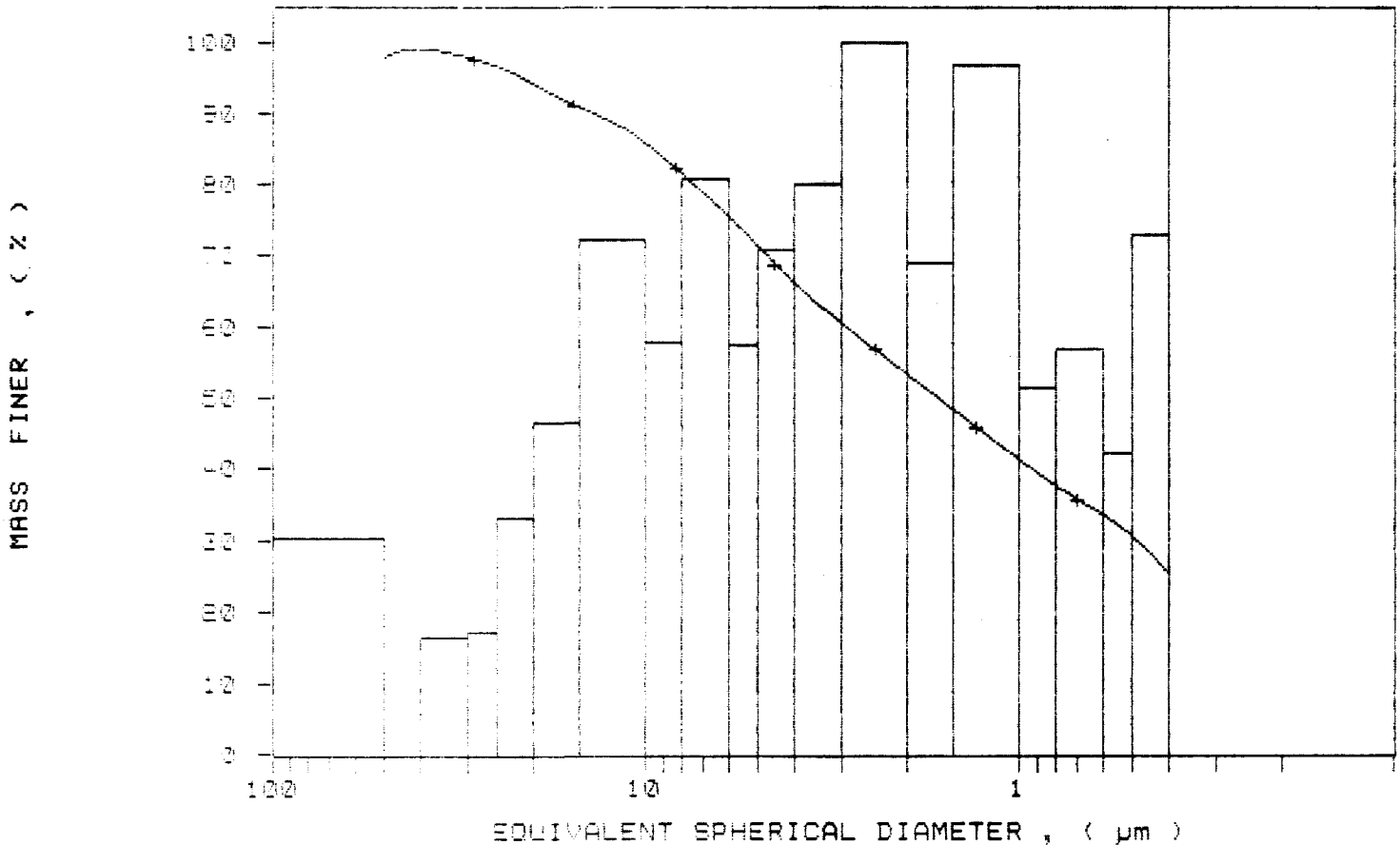
**MINERAL RESEARCH
 CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 *HM* BUS (705) 378-2416
 DATE

SAMPLE DIRECTORY/NUMBER: DATA5 /265
SAMPLE ID: Hole 89-4 # 15564
SUBMITTER: # 29
OPERATOR: RM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 24.0 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 08:53:06 07/17/91
REPRT 09:13:33 07/17/91
TOT RUN TIME 0:07:18
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7261 cp

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



SediGraph 5100 V2.05

Hole 89-4 # 15563

PAGE 1

SAMPLE DIRECTORY NUMBER: DATA5 /264
 SAMPLE ID: Hole 89-4 # 15563
 SUBMITTER: # 89
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 54.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 08:33:29 07/17/91
 REPRT 08:54:30 07/17/91
 TOT RUN TIME 0:07:33
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.00 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	00.0	0.0
40.00	00.0	1.0
30.00	07.2	1.0
25.00	08.2	0.8
20.00	04.1	2.0
15.00	00.0	3.0
10.00	00.0	4.0
8.00	04.1	2.7
6.00	00.0	4.1
5.00	07.2	2.4
4.00	00.0	0.0
3.00	04.1	4.7
2.00	00.0	0.0
1.50	00.0	4.2
1.00	00.0	7.5
0.80	00.0	4.2
0.60	00.0	0.0
0.50	07.4	4.0
0.40	00.0	0.9

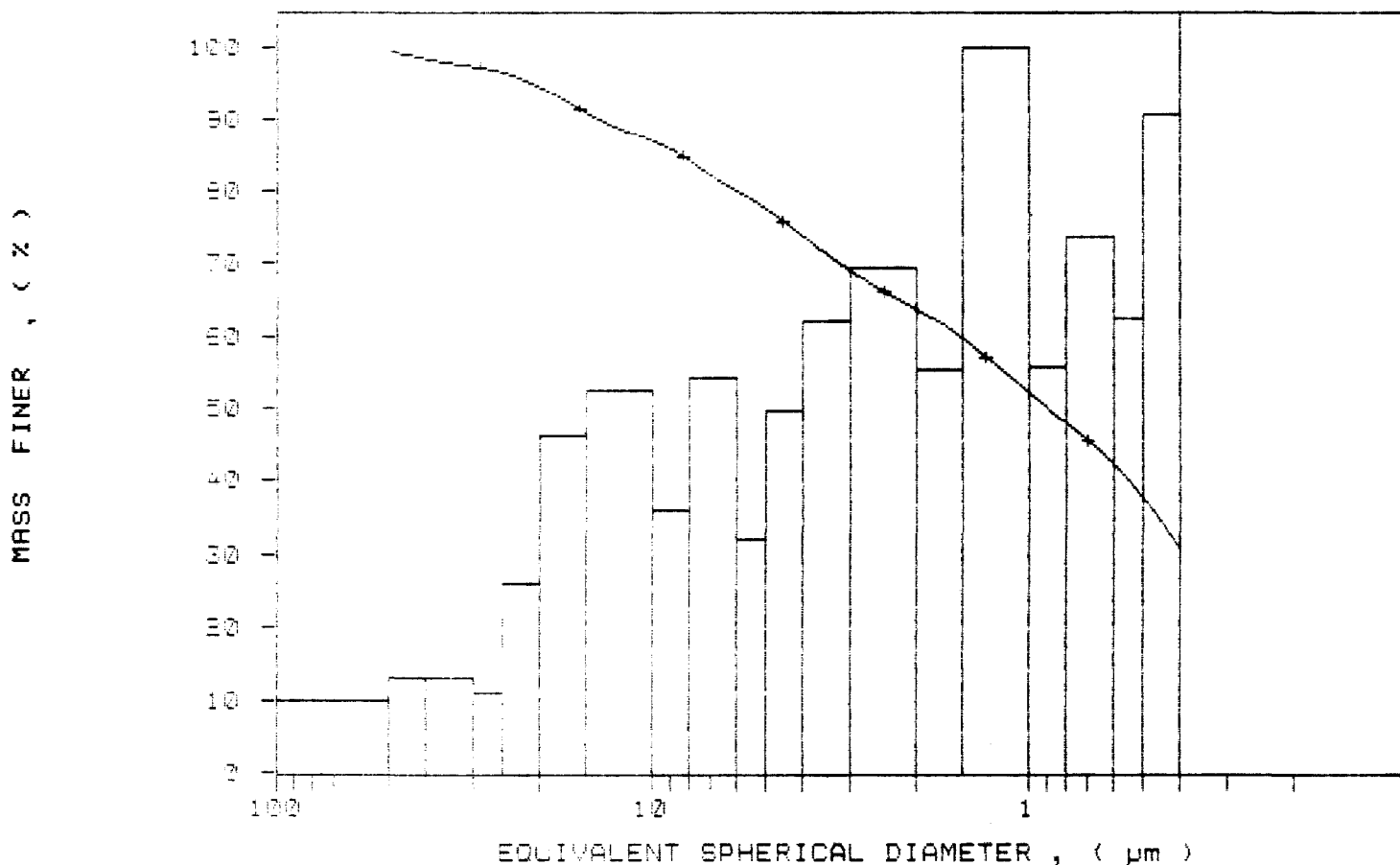
**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *DM*

SAMPLE DIRECTORY/NUMBER: DAT45 /264	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15563	START 08:33:29 07/17/91
SUBMITTER: # 55	REPR 08:54:30 07/17/91
OPERATOR: NM	TOT RUN TIME 0:07:33
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: water	LIQ DENS: 0.9942 g/cc
ANALYSIS TIME: 04:17 sec	LIQ VISC: 0.7264 cp
RUN TYPE: High Speed	

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



SAMPLE DIRECTOR/NUMBER: DIATA5 /263
 SAMPLE ID: Hole 89-4 # 15562
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 16:30:22 07/16/91
 REPT 16:42:37 07/16/91
 TOT RUN TIME 0:07:23
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

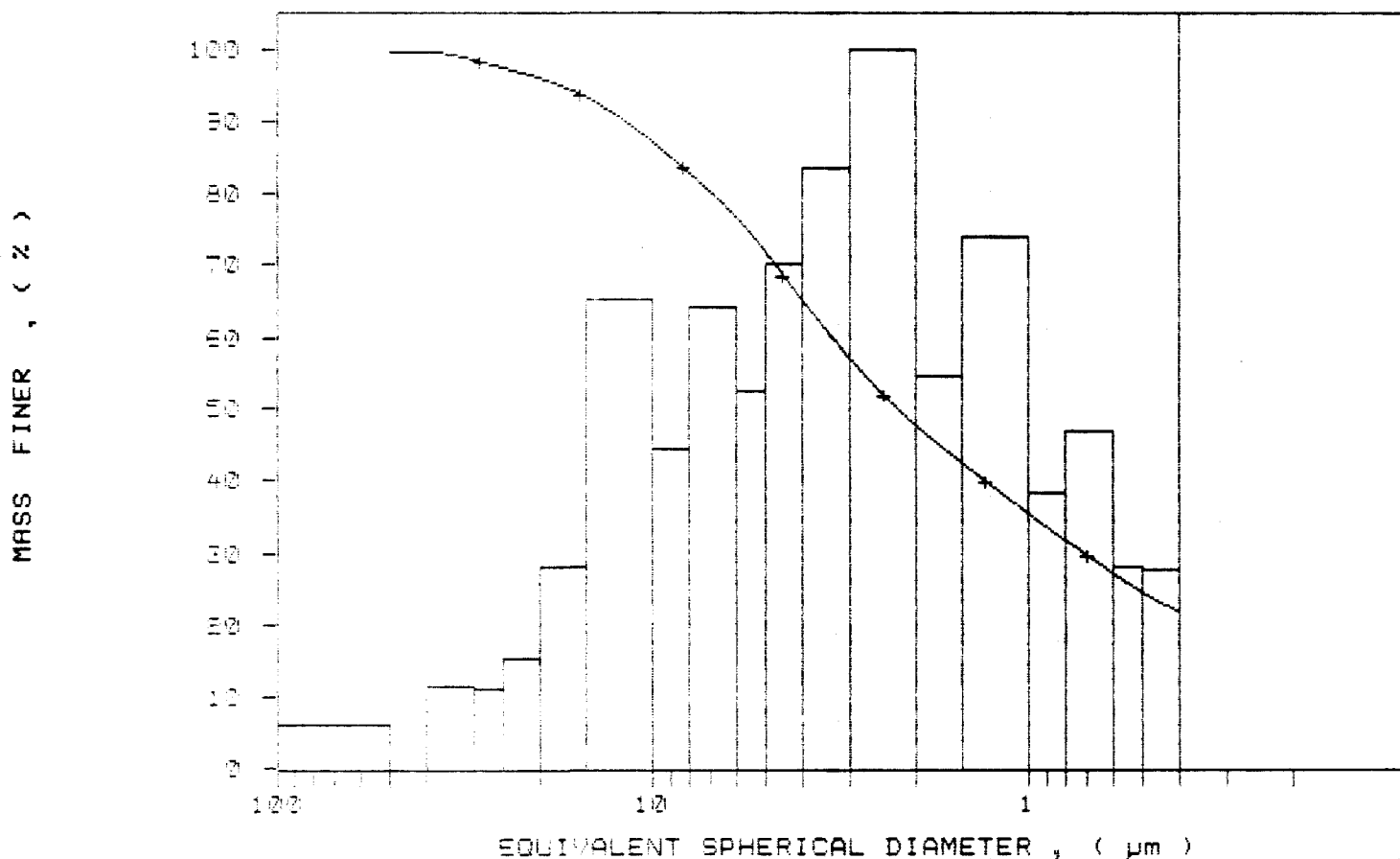
MEDIAN DIAMETER: 2.24 μ m MODAL DIAMETER: 4.63 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.4	0.6
40.00	99.5	-0.2
30.00	98.5	1.1
25.00	97.4	1.1
20.00	95.9	1.5
15.00	93.2	2.7
10.00	87.1	6.2
8.00	82.2	4.2
6.00	75.7	6.1
5.00	71.7	5.0
4.00	65.0	6.7
3.00	57.1	7.9
2.00	47.2	9.5
1.50	42.4	5.2
1.00	35.4	7.1
0.80	31.7	3.7
0.60	27.2	4.5
0.50	24.5	2.7
0.40	21.5	2.7

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 3W8
 FAX (705) 378-5173 BUS (705) 378-2416
 DATE *Slon*

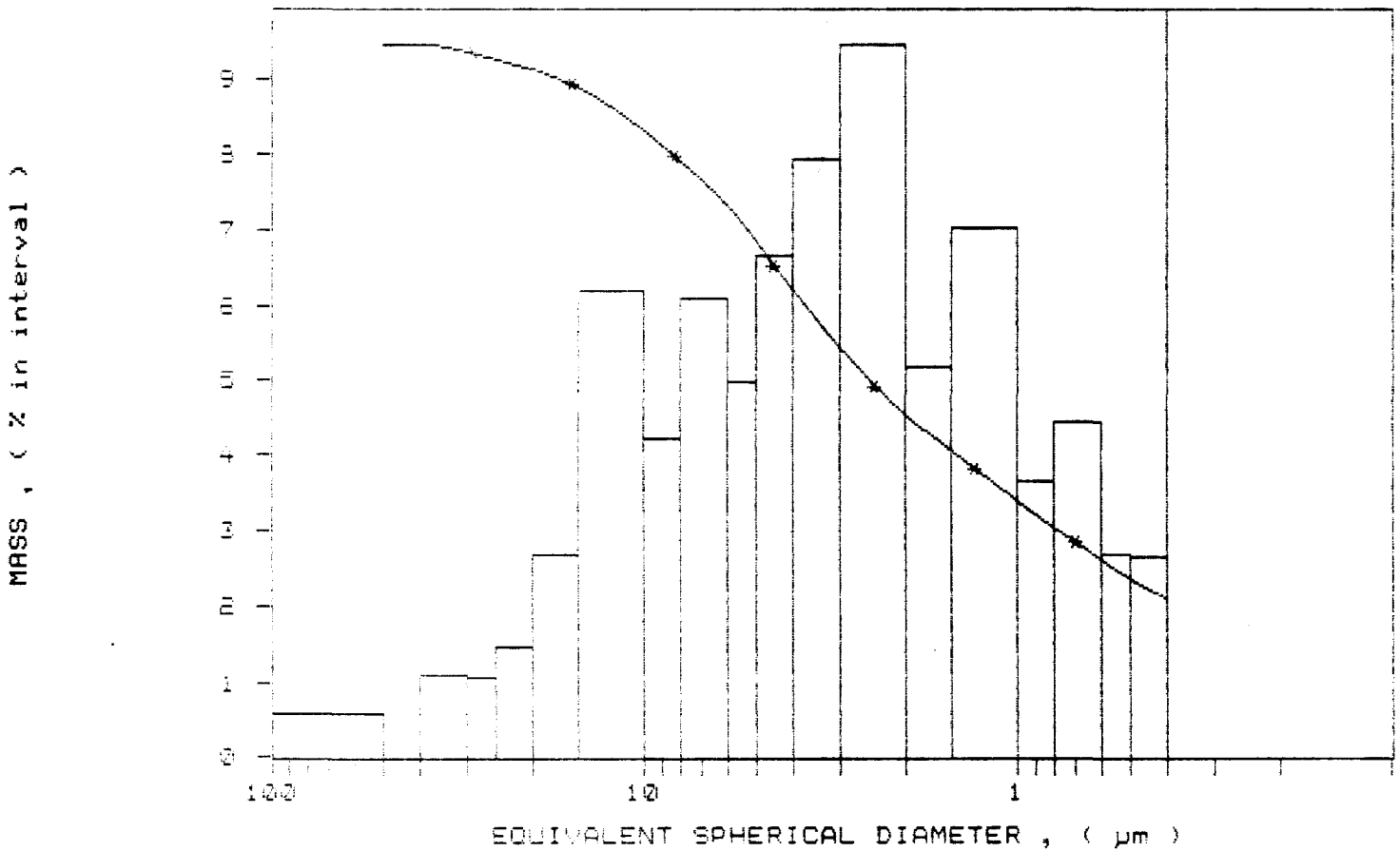
SAMPLE DIRECTORY NUMBER: DATAS /268	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15562	START 16:30:22 07/16/91
SUBMITTER: # 39	REPR 16:42:37 07/16/91
OPERATOR: KM	TOT RUN TIME 0:07:23
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	LIQ VISC: 0.7264 cp
RUN TYPE: High Speed	

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



SAMPLE DIRECTORY NUMBER: DATA5 /263 UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15562 START 16:30:22 07/16/91
SUBMITTER: # 33 REPT 16:42:37 07/16/91
OPERATOR: KH TOT RUN TIME 0:07:29
SAMPLE TYPE: Clay SAM DENS: 2.6000 g/cc
LIQUID TYPE: water LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed LIQ VISC: 0.7264 cp

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



Hole 89 -4 # 15561

SediGraph 5100 v2.05

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /262
 SAMPLE ID: Hole 89-4 # 15561
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 15:41:25 07/16/91
 REPT 15:53:34 07/16/91
 TOT RUN TIME 0:07:36
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7268 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.01 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.1	0.9
40.00	99.0	0.1
30.00	96.1	3.0
25.00	90.5	5.6
20.00	85.6	5.9
15.00	84.1	1.5
10.00	77.7	6.4
8.00	74.8	2.8
6.00	69.6	5.0
5.00	66.4	3.2
4.00	62.4	4.0
3.00	56.5	5.9
2.00	49.5	6.7
1.50	44.8	5.1
1.00	37.1	7.7
0.80	32.7	4.4
0.60	27.0	5.8
0.50	23.3	3.7
0.40	10.5	4.8

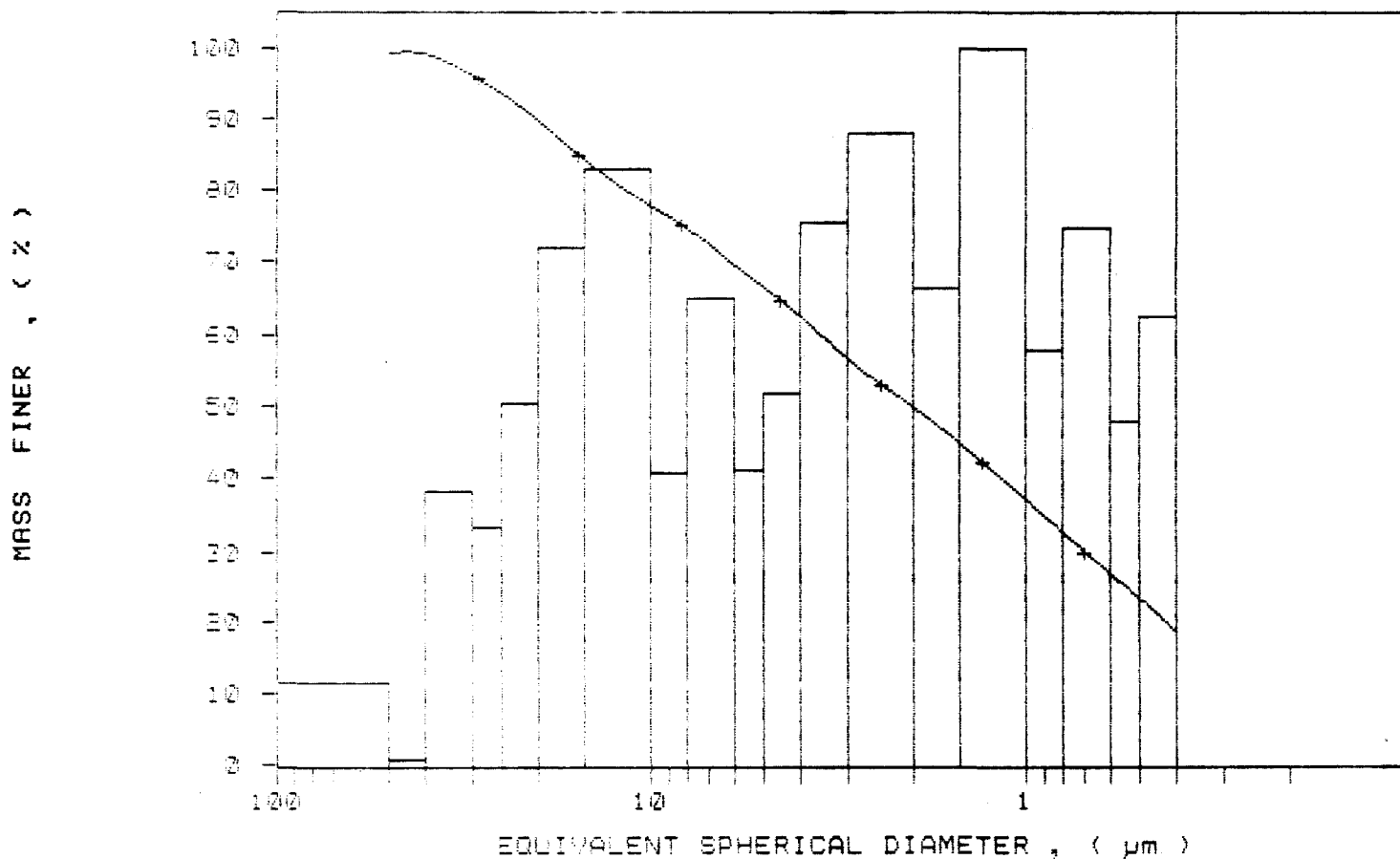
**MINERAL RESEARCH
 CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *Alon*

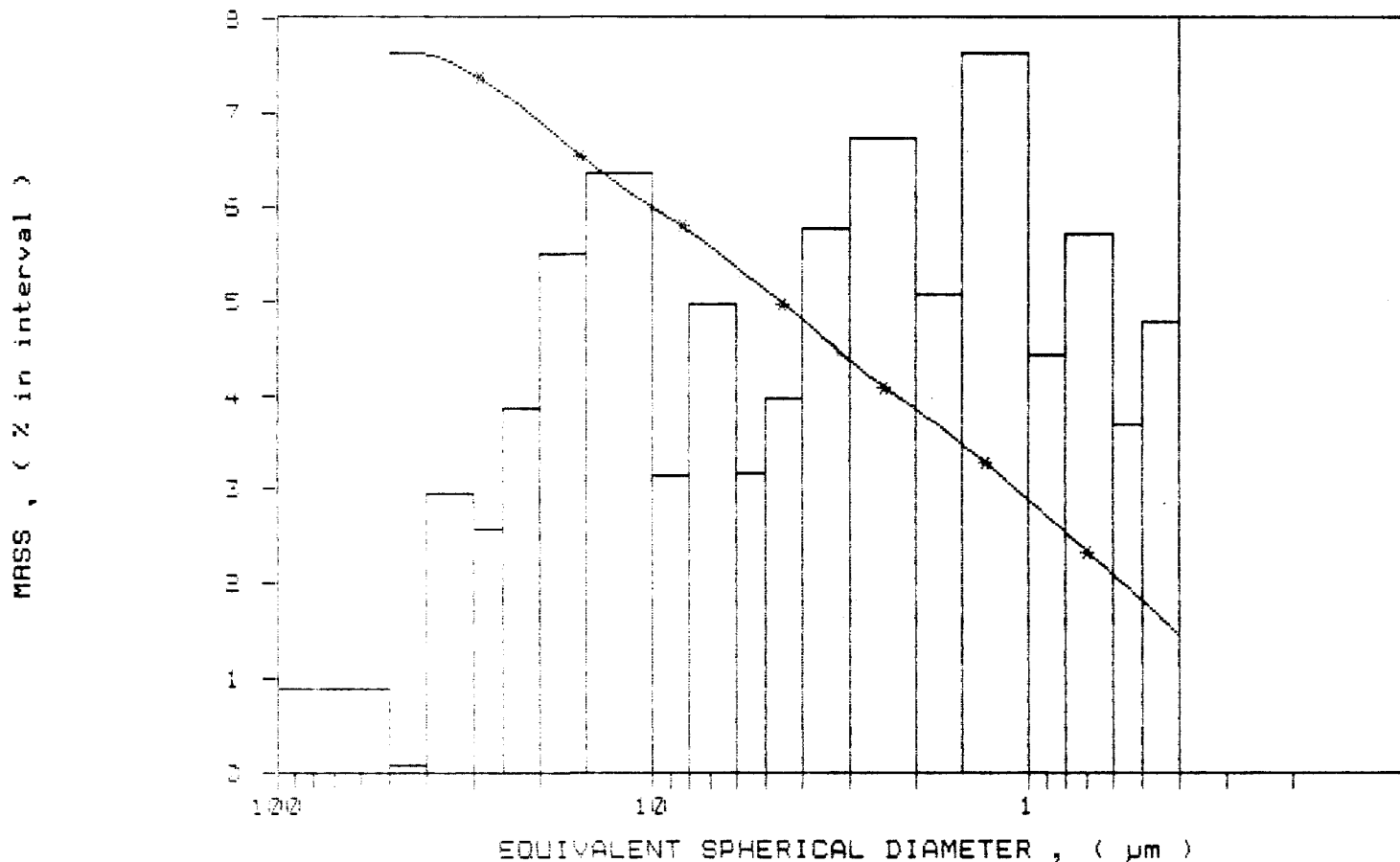
SAMPLE DIRECTORY/NUMBER: CATAS 7262	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15561	START 15:41:25 07/16/91
SUBMITTER: # 39	REPT 15:53:34 07/16/91
OPERATOR: RM	TOT RUN TIME 0:07:36
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 24.7 deg C	LIQ VISC: 0.7268 cp
RUN TYPE: High Speed	

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



SAMPLE DIRECTORY/NUMBER: DATA5 /262	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15561	START 15:41:25 07/16/91
SUBMITTER: # 39	REPT 15:53:34 07/16/91
OPERATOR: RM	TOT. RUN TIME 0:07:36
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.0 deg C	LIQ VISC: 0.7268 cp
RUN TYPE: High Speed	

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



SAMPLE DIRECTORY/NUMBER: DATAS /261
 SAMPLE ID: Hole 89-4 # 15560
 SUBMITTER: # 39
 OPERATOR: RM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:56:13 07/16/91
 REPT 15:08:14 07/16/91
 TOT RUN TIME 0:07:28
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.84 μ m MODAL DIAMETER: 3.84 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.8	0.2
40.00	99.7	1.1
30.00	96.4	2.8
25.00	94.3	2.1
20.00	90.6	3.7
15.00	84.8	5.9
10.00	76.8	8.0
8.00	71.4	5.2
6.00	64.2	7.2
5.00	59.4	4.8
4.00	53.4	6.0
3.00	45.8	7.6
2.00	37.9	7.9
1.50	32.7	5.1
1.00	26.6	6.1
0.80	23.7	2.9
0.60	20.4	3.4
0.50	18.5	1.9
0.40	15.5	3.0

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

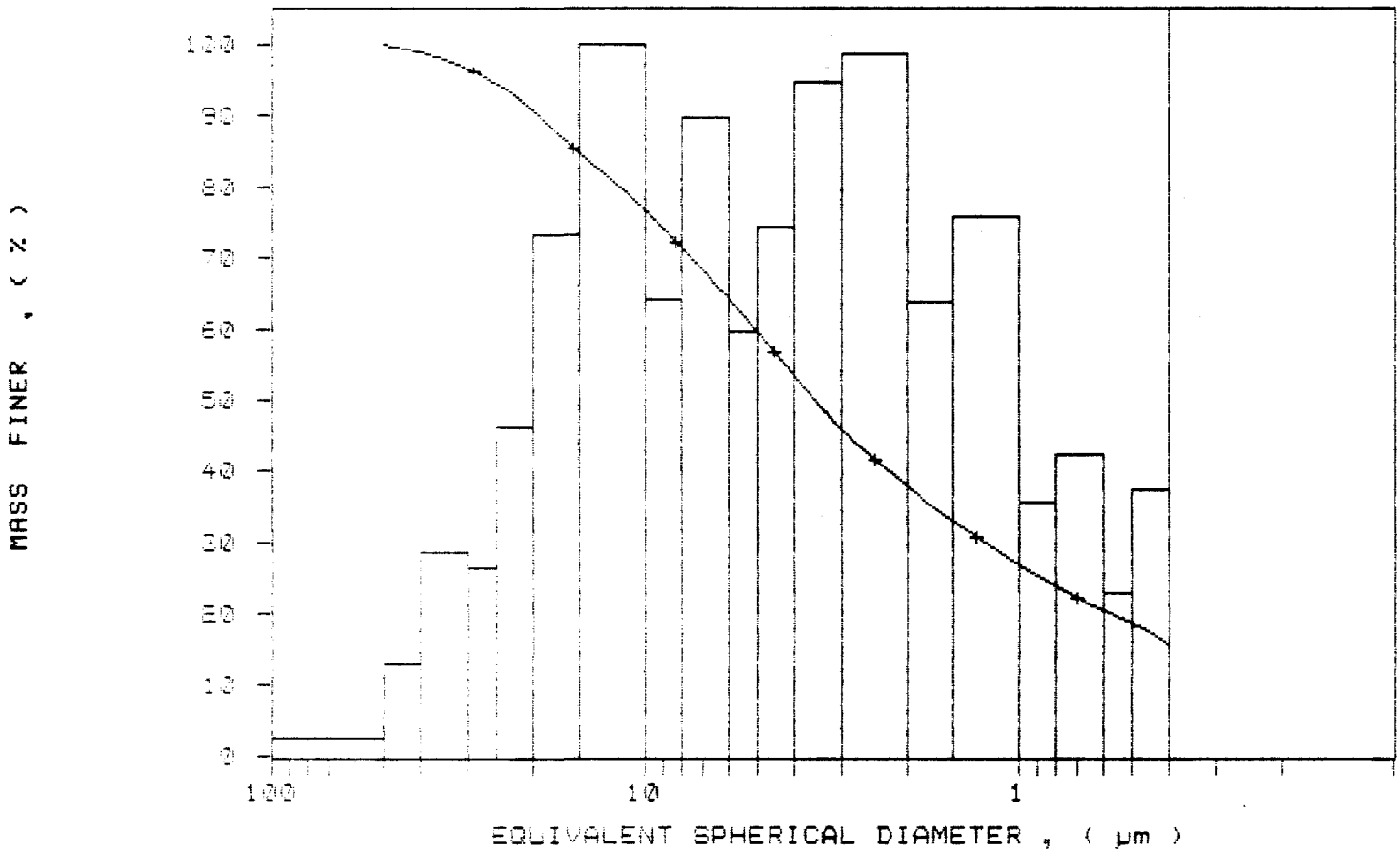
FAX (705) 378-5123 BUS (705) 378-2416

DATE *[Signature]*

SAMPLE DIRECTOR/NUMBER: DATA5 /261
SAMPLE ID: Hole 89-4 # 15560
SUBMITTER: # 99
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 14:56:13 07/16/91
REPT 15:08:14 07/16/91
TOT RUN TIME 0:07:28
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7271 cp

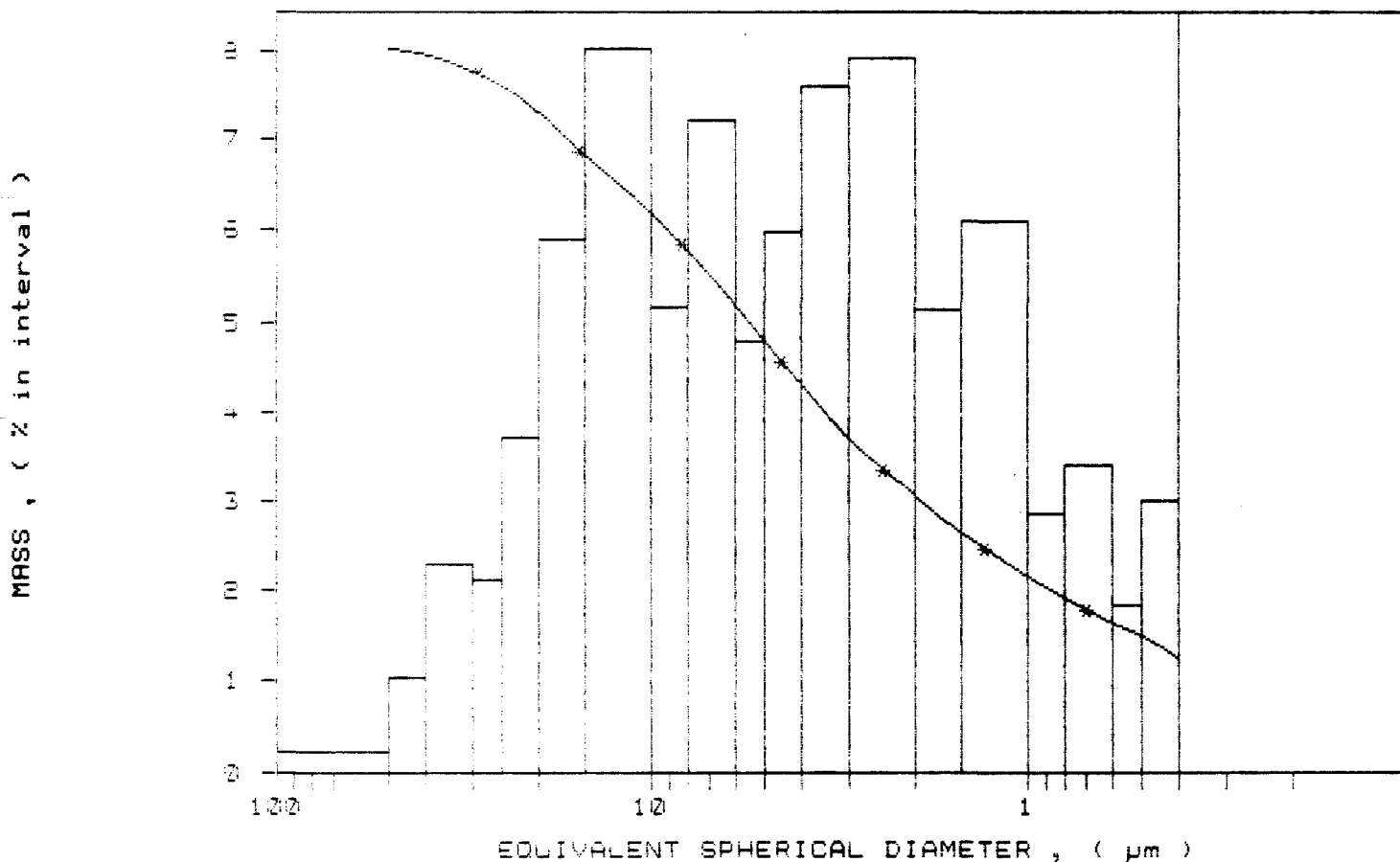
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 1/261
SAMPLE ID: Hole 89-4 # 15560
SUBMITTER: # 89
OPERATOR: NM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 24.7 deg C

UNIT NUMBER: 1
START 14:56:13 07/16/91
REPT 15:08:14 07/16/91
TOT RUN TIME 0:07:28
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7271 cp

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



[Faint, illegible text or signature]

SAMPLE DIRECTORY NUMBER: DAT45 /260
 SAMPLE ID: Hole 89-4 # 15559
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:30:46 07/16/91
 REPT 14:42:43 07/16/91
 TOT RUN TIME 0:07:23
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7270 cp

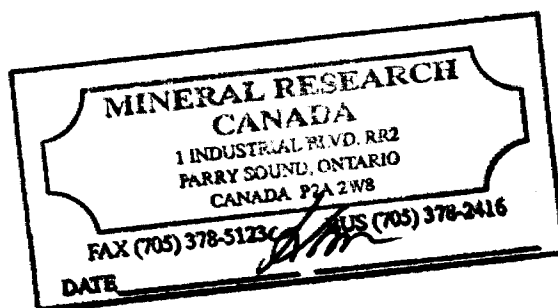
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.44 μ m MODAL DIAMETER: 5.06 μ m

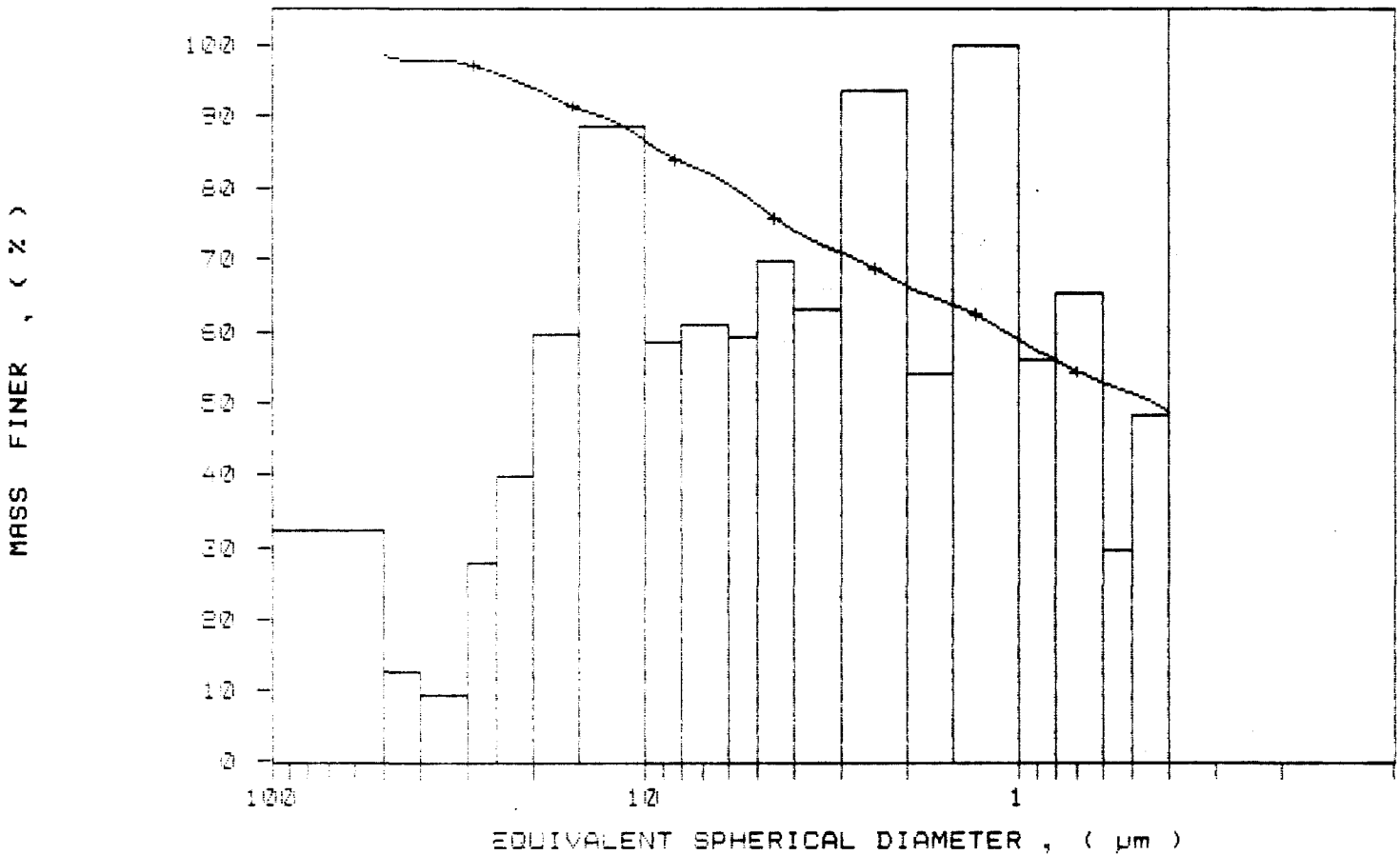
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.4	1.6
40.00	97.8	0.6
30.00	97.3	0.5
25.00	95.9	1.4
20.00	90.9	2.0
15.00	80.3	3.0
10.00	60.5	4.4
8.00	59.6	2.9
6.00	30.6	3.0
5.00	77.6	3.0
4.00	74.2	3.5
3.00	71.0	3.1
2.00	66.4	4.7
1.50	60.7	2.7
1.00	56.7	3.0
0.80	55.9	2.8
0.60	52.7	3.2
0.50	51.2	1.5
0.40	46.8	2.4



SAMPLE DIRECTORY/NUMBER: DATA5 /260
SAMPLE ID: Hole 89-4 # 15559
SUBMITTER: # 35
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 14:30:46 07/16/91
REPT 14:42:43 07/16/91
TOT RUN TIME 0:07:23
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7270 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 7260

UNIT NUMBER: 1

SAMPLE ID: Hole 89-4 # 15559

START 14:30:46 07/16/91

SUBMITTER: # 39

REPT 14:42:43 07/16/91

OPERATOR: KM

TOT RUN TIME 0:07:23

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

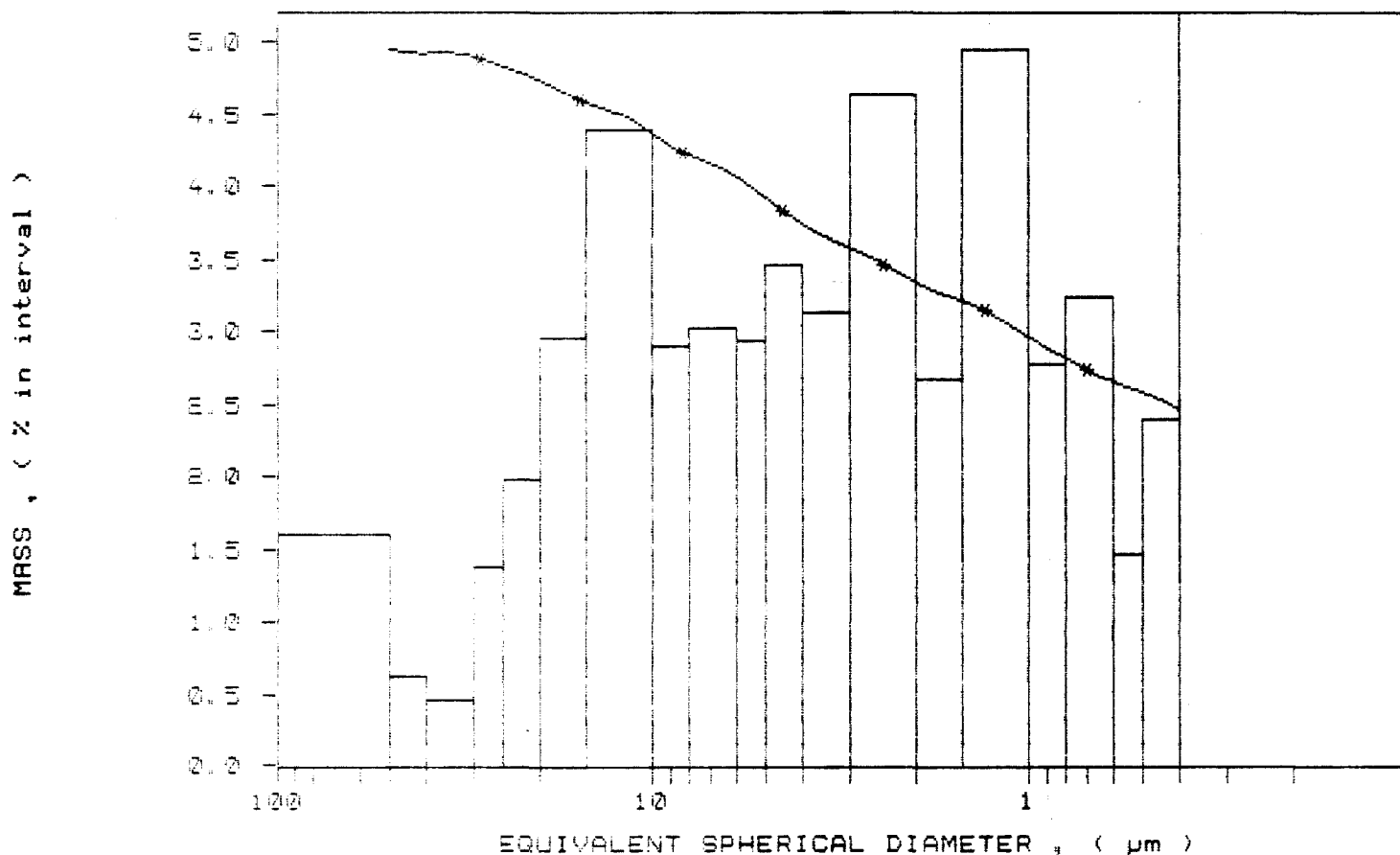
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7270 cp

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



SediGraph 5100 v2.03

SAMPLE DIRECTORY/NUMBER: DATAS /259
 SAMPLE ID: Hole 89-4 # 15558
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:12:48 07/16/91
 REPR 14:24:18 07/16/91
 TOT RUN TIME 0:06:59
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7269 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.36 μ m MASS DISTRIBUTION
 MODAL DIAMETER: 3.34 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
40.00	98.5	1.1
30.00	98.3	0.5
25.00	97.4	0.9
20.00	95.7	1.7
15.00	92.7	3.1
10.00	86.9	5.8
8.00	83.3	3.6
6.00	72.4	4.9
5.00	74.7	3.7
4.00	69.9	4.8
3.00	63.5	6.6
2.00	54.6	8.9
1.50	49.3	5.3
1.00	41.3	8.0
0.80	37.0	4.3
0.60	31.5	5.5
0.50	27.8	3.7
0.40	23.1	4.7

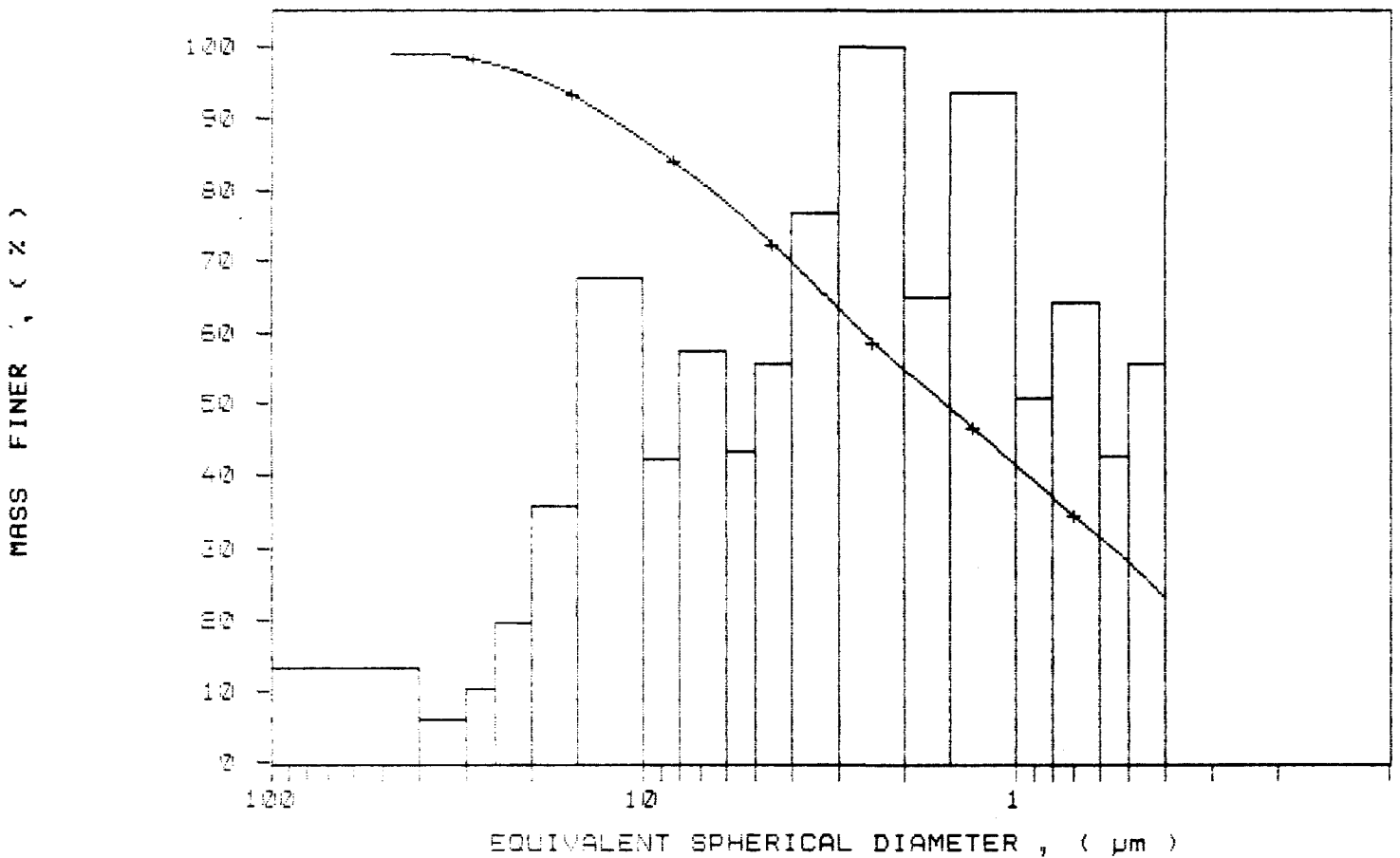
**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2V8

FAX (705) 378-5111 BUS (705) 378-2416
 DATE *Jim*

SAMPLE DIRECTORY/NUMBER: DATA5 /259
SAMPLE ID: Hole 89-4 # 15558
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 14:12:48 07/16/91
REPT 14:24:18 07/16/91
TOT RUN TIME 0:06:59
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7269 cp

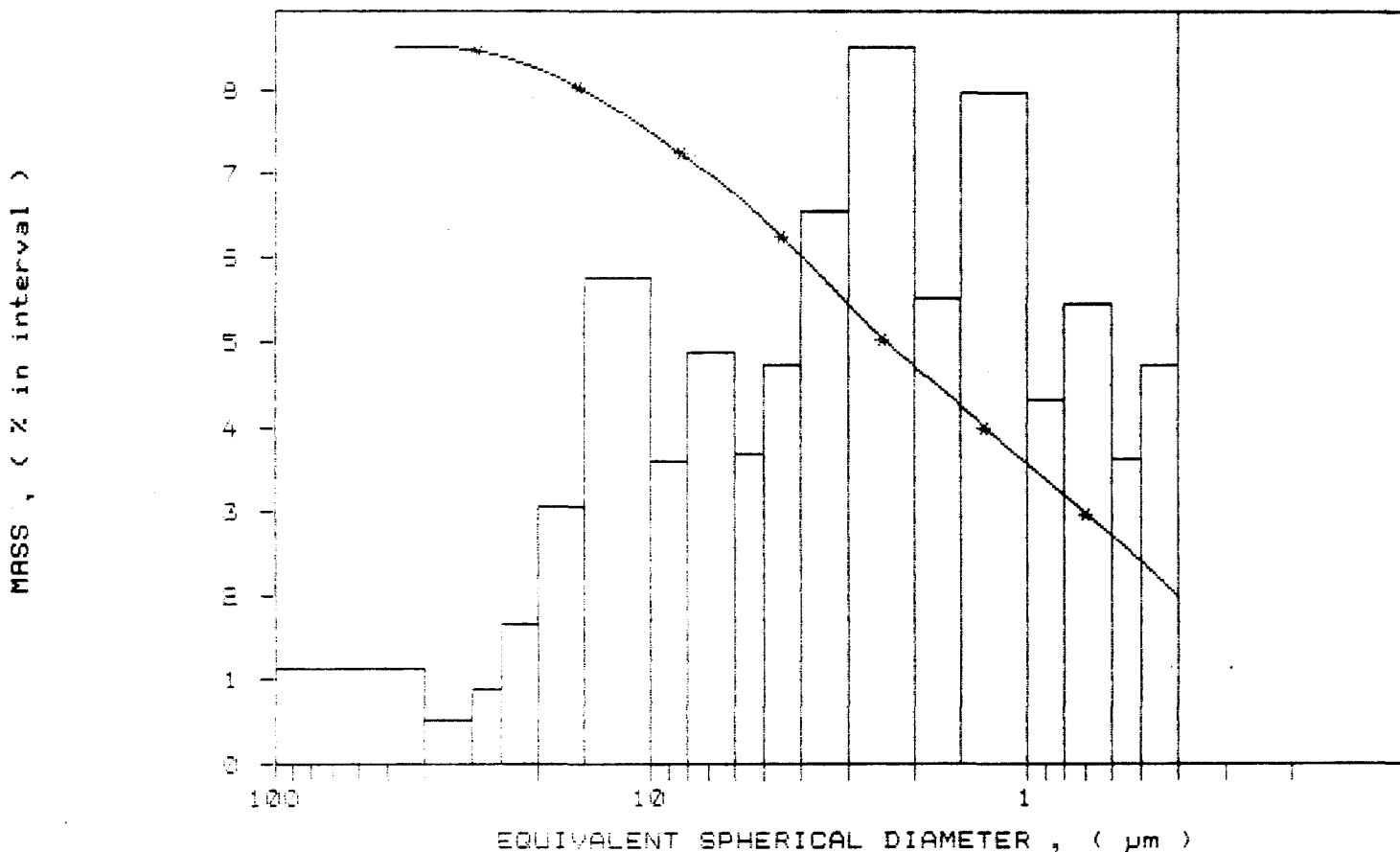
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAS /259
SAMPLE ID: Hole 89-4 # 15558
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 14:12:48 07/16/91
REPR 14:24:18 07/16/91
TOT RUN TIME 0:06:59
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7269 cp

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



[Handwritten signature and notes]

SAMPLE DIRECTORY/NUMBER: DATAS /258
 SAMPLE ID: Hole 89-4 # 15557
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 13:50:27 07/16/91
 REPT 14:02:35 07/16/91
 TOT RUN TIME 0:07:26
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.70 μ m MODAL DIAMETER: 5.57 μ m

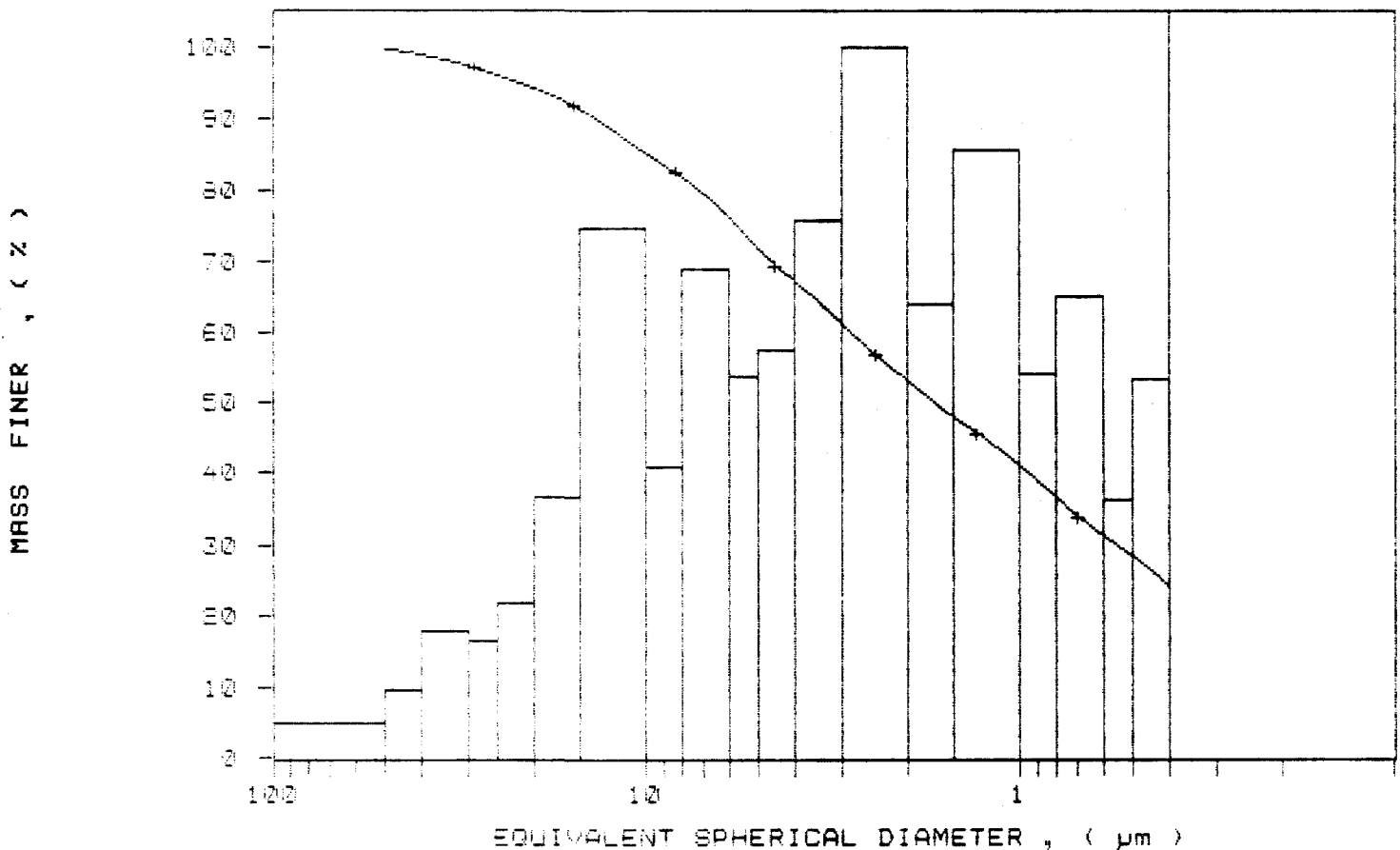
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.6	0.4
40.00	98.8	0.8
30.00	97.3	1.5
25.00	96.0	1.3
20.00	94.2	1.8
15.00	91.2	3.0
10.00	85.2	6.1
8.00	81.8	6.3
6.00	76.2	5.6
5.00	71.3	4.9
4.00	67.2	4.1
3.00	61.1	6.1
2.00	55.0	6.1
1.50	47.8	6.2
1.00	40.3	6.9
0.80	36.5	4.4
0.60	31.2	5.2
0.50	28.3	2.9
0.40	24.0	4.3

MINERAL RESEARCH CANADA	
1 INDUSTRIAL BLVD. RR2 PARRY SOUND, ONTARIO CANADA P1A 2W8	
FAX (705) 378-5123	TEL (705) 378-2416
DATE <i>John</i>	

SAMPLE DIRECTORY/NUMBER: DATA5 /258
SAMPLE ID: Hole 89-4 # 15557
SUBMITTER: # 25
OPERATOR: RM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 54.7 deg C

UNIT NUMBER: 1
START 13:50:27 07/16/91
REPT 14:02:35 07/16/91
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7271 cp

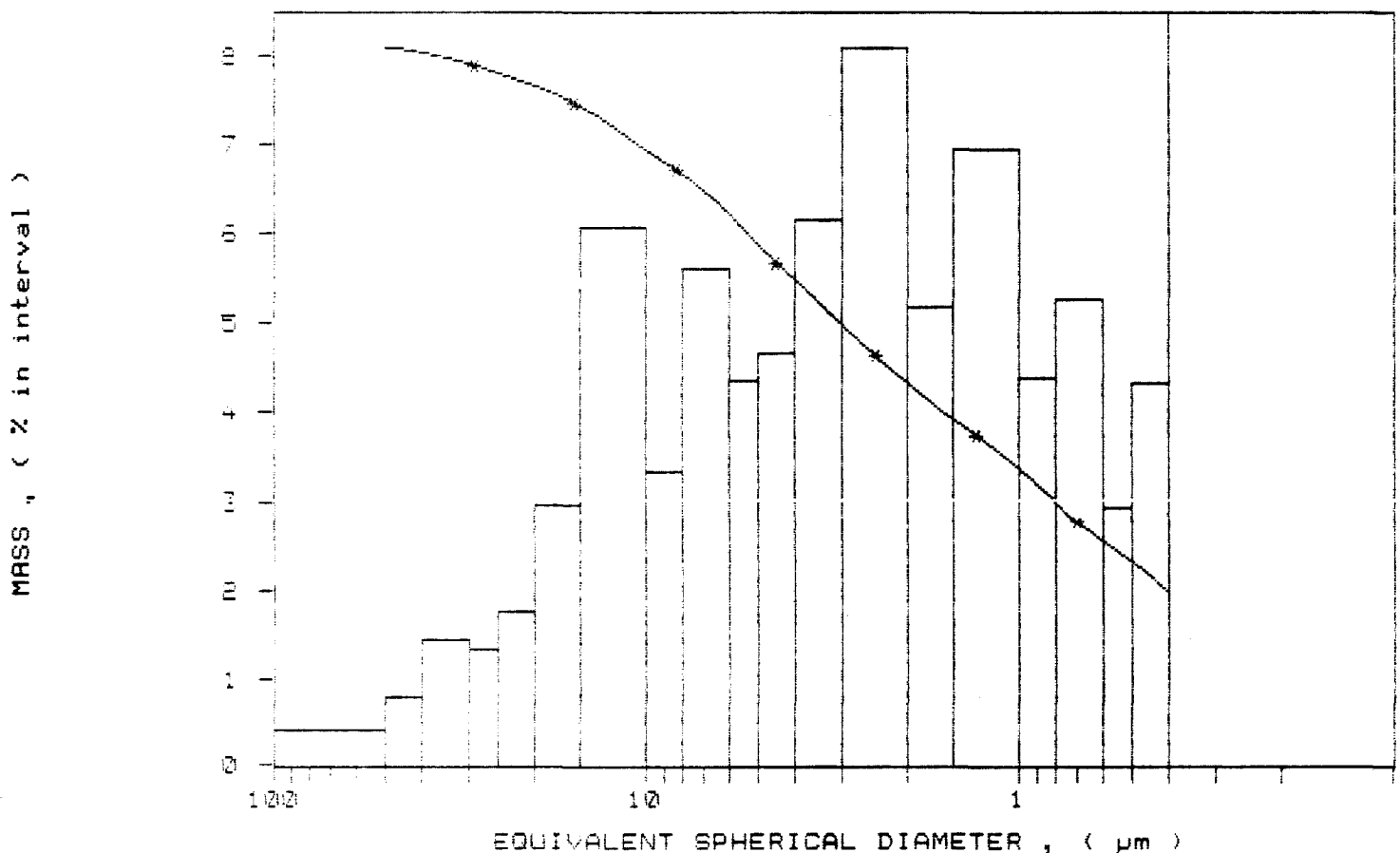
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /258
 SAMPLE ID: Hole 89-4 # 15557
 SUBMITTER: # 33
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 13:50:27 07/16/91
 REPT 14:02:35 07/16/91
 TOT RUN TIME 0:07:26
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

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



Hole 89-4 # 15556

PAGE 1

SediGraph 5100 V2.03

SAMPLE DIRECTORY/NUMBER: DATA5 /257
 SAMPLE ID: Hole 89-4 # 15556
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 13:19:44 07/16/91
 REPT 13:27:21 07/16/91
 TOT RUN TIME 0:07:17
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7273 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.54 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.1	1.9
40.00	97.8	0.6
30.00	96.8	0.6
25.00	95.7	0.6
20.00	95.1	0.6
15.00	93.5	1.6
10.00	89.3	4.2
8.00	87.6	2.0
6.00	83.5	3.6
5.00	81.1	2.4
4.00	78.1	3.1
3.00	73.6	4.5
2.00	68.1	5.4
1.50	64.9	3.3
1.00	59.5	5.4
0.80	56.2	3.3
0.60	51.5	4.5
0.50	48.4	3.4
0.40	46.5	1.9

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD RR2
 PARRY SOUND, ONTARIO
 CANADA, P2A 2W6

FAX (705) 378-5123 BUS (705) 378-2416

DATE *Alan*

SAMPLE DIRECTORY/NUMBER: DATA5 /257

SAMPLE ID: Hole 89-4 # 15556

SUBMITTER: # 89

OPERATOR: NM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1

START 13:19:44 07/16/91

REPT 13:27:21 07/16/91

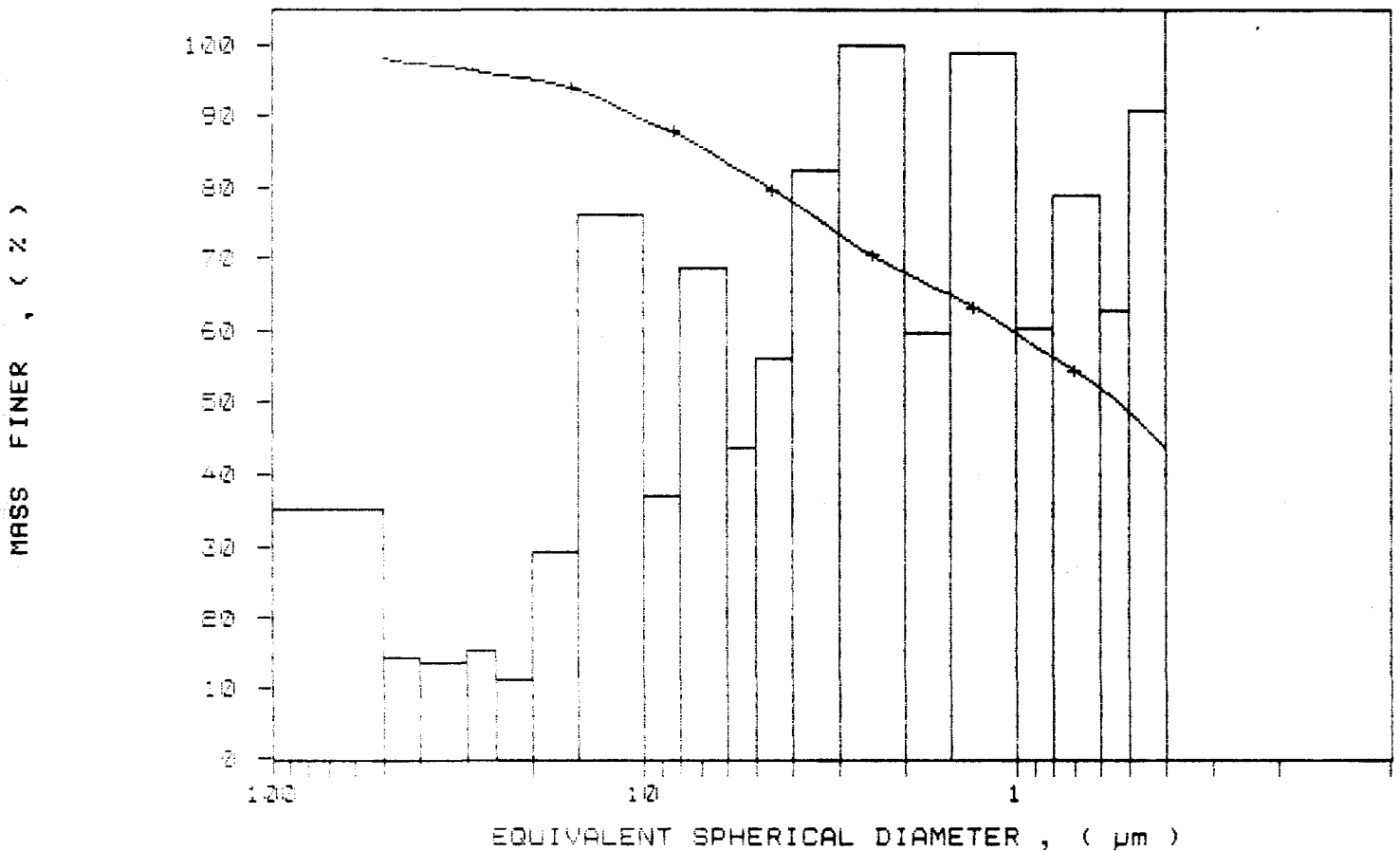
TOT RUN TIME 0:07:17

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7273 cp

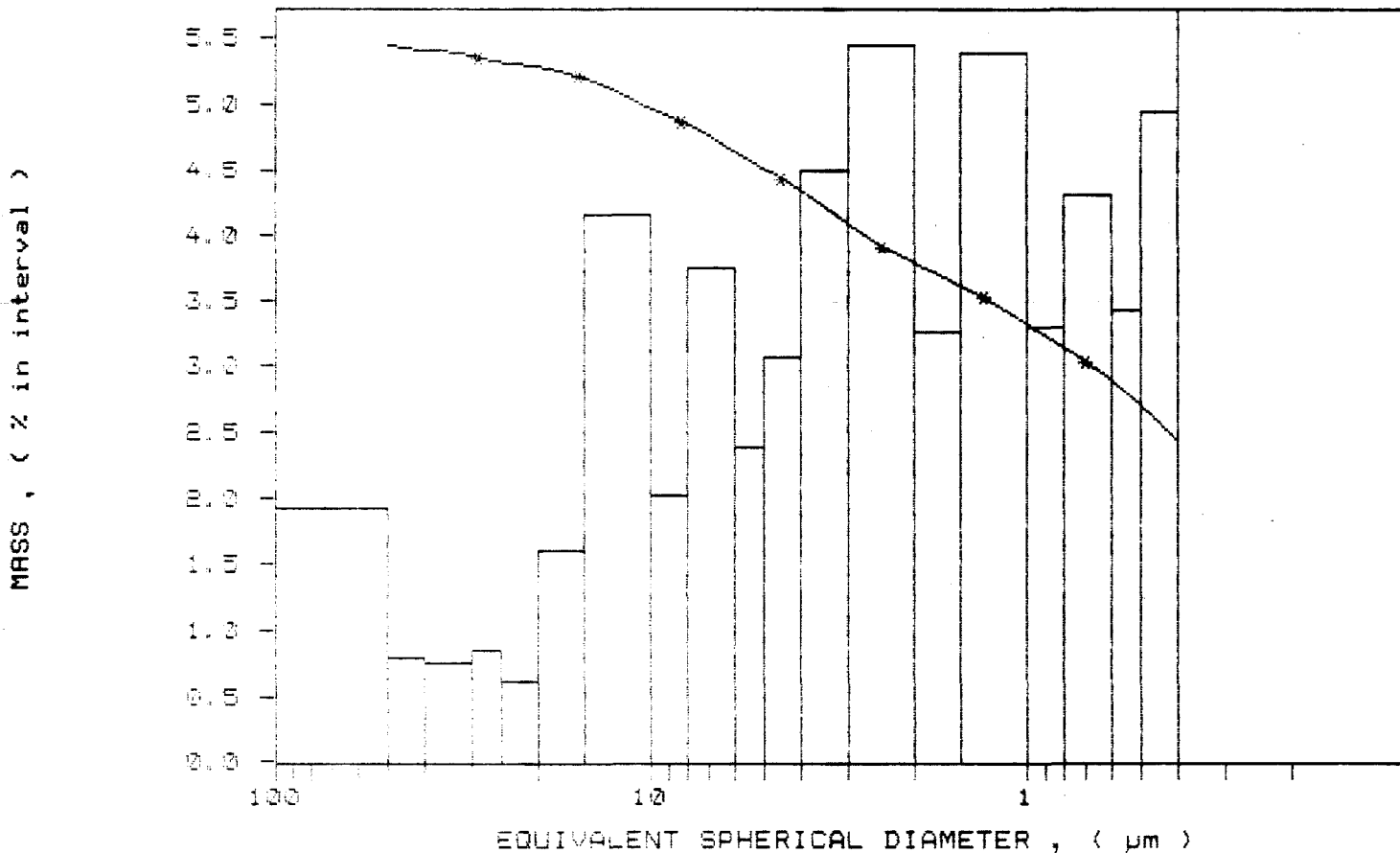
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /257
SAMPLE ID: Hole 89-4 # 15556
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 84.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 13:19:44 07/16/91
REPT 13:27:21 07/16/91
TOT RUN TIME 0:07:17
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7273 cp

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



Hole 89-4 # 15555

SediGraph 5100 V2.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /256
 SAMPLE ID: Hole 89-4 # 15555
 SUBMITTER: # 89
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:29:04 07/16/91
 REPT 12:41:04 07/16/91
 TOT RUN TIME 0:07:27
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7272 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.65 μ m MODAL DIAMETER: 4.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.2	0.8
40.00	97.2	2.1
30.00	95.4	1.8
25.00	92.7	2.7
20.00	88.2	4.5
15.00	82.2	6.0
10.00	73.3	8.9
8.00	68.5	4.8
6.00	62.6	6.0
5.00	58.3	4.3
4.00	52.4	5.9
3.00	45.0	7.3
2.00	36.5	8.5
1.50	31.8	4.7
1.00	24.0	7.8
0.80	19.9	4.1
0.60	16.1	3.8
0.50	14.1	2.1
0.40	11.3	2.8

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARAY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /256

UNIT NUMBER: 1

SAMPLE ID: Hole 89-4 # 15555

START 12:29:04 07/16/91

SUBMITTER: # 39

REPRT 12:41:04 07/16/91

OPERATOR: KM

TOT RUN TIME 0:07:27

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

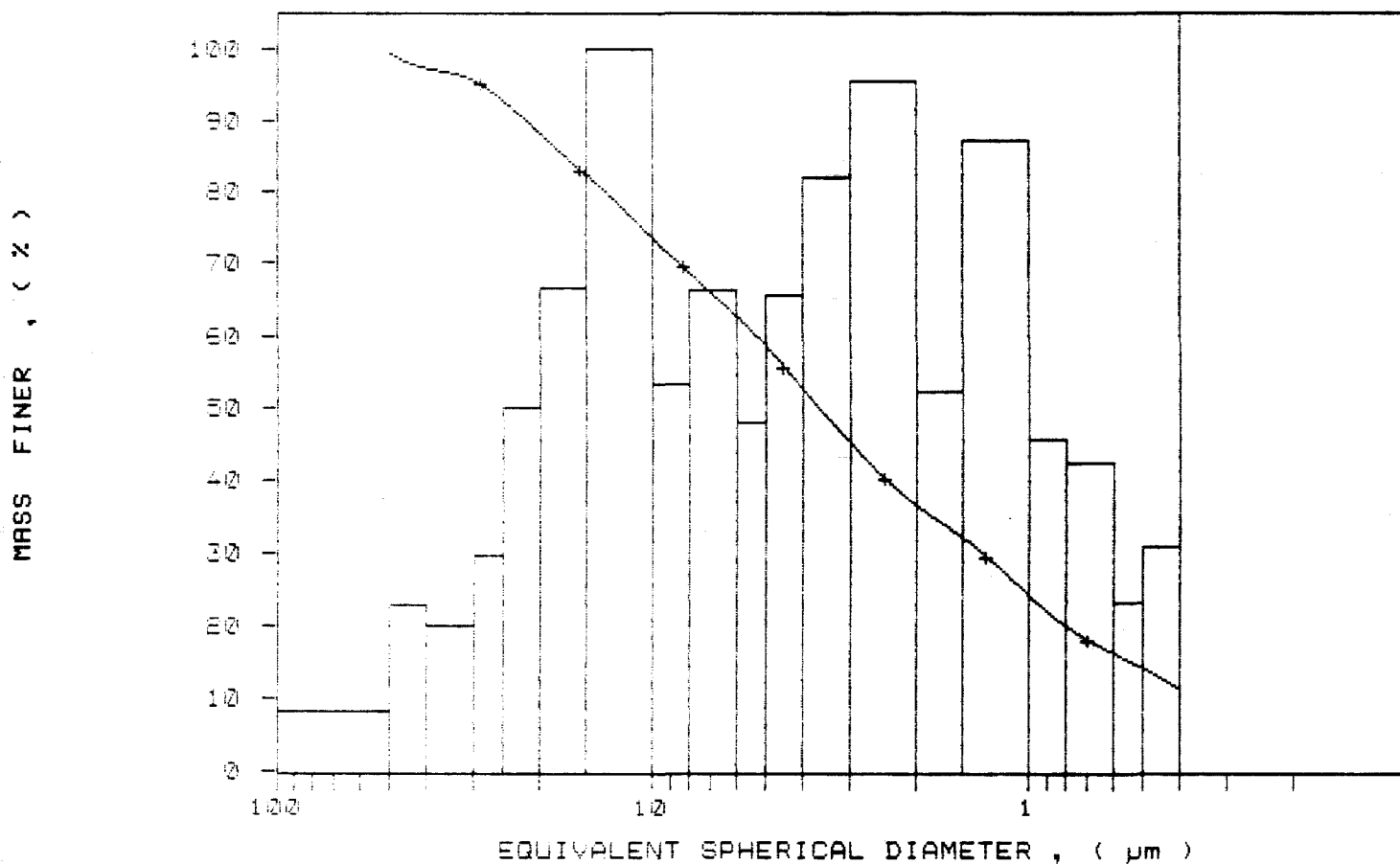
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7272 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /256

SAMPLE ID: Hole 89-4 # 15555

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 12:29:04 07/16/91

REPT 12:41:04 07/16/91

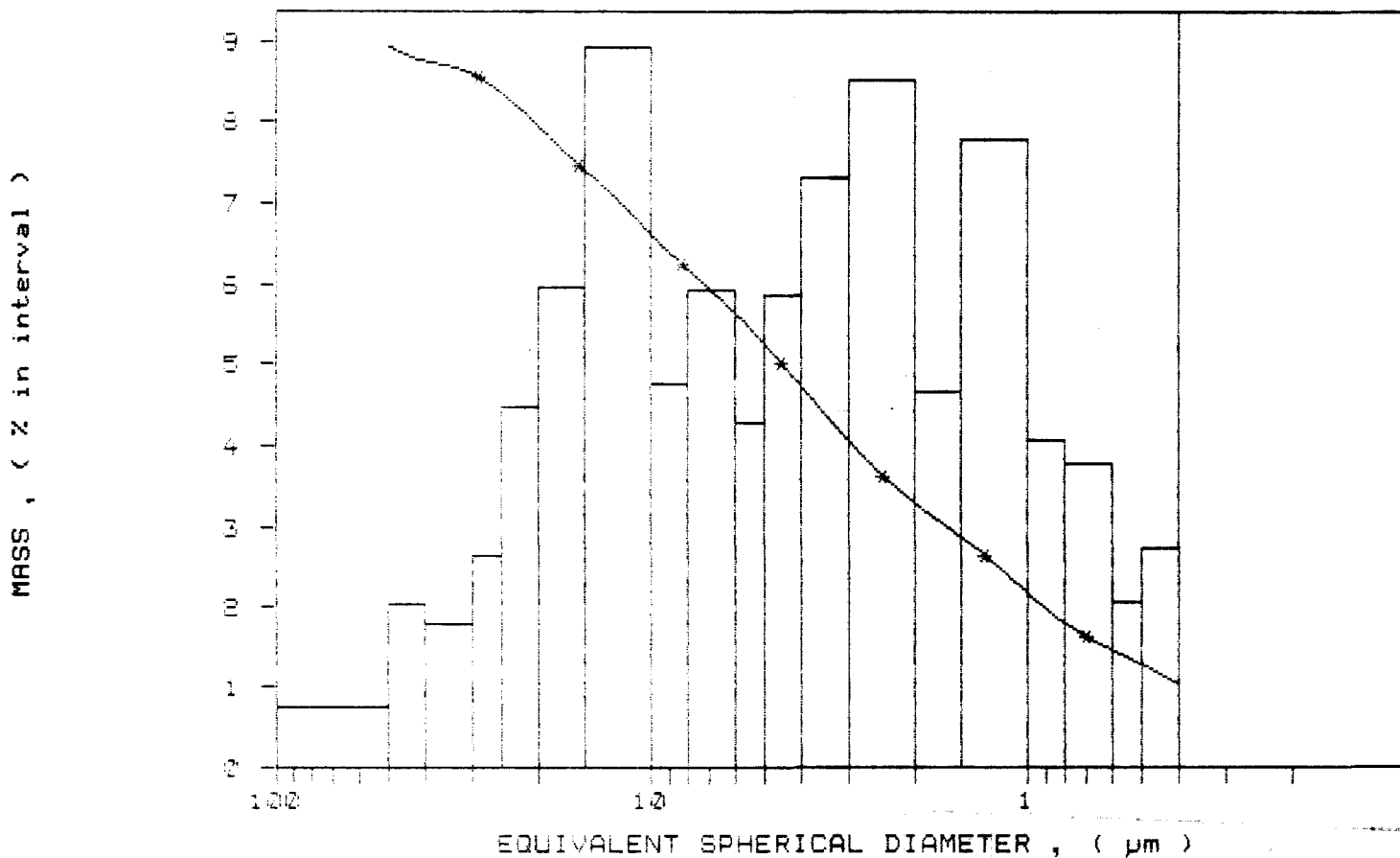
TOT RUN TIME 0:07:27

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7272 cp

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



Hole 89-4 # 15554

PAGE 1

SediGraph 5100 V2.03

SAMPLE DIRECTORY/NUMBER: DATA5 /255
 SAMPLE ID: Hole 89-4 # 15554
 SUBMITTER: # 89
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:05:39 07/16/91
 REPT 12:17:48 07/16/91
 TOT RUN TIME 0:07:37
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7272 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.61 μ m

MODAL DIAMETER: 4.71 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.7	0.3
40.00	98.1	1.5
30.00	96.7	1.4
25.00	94.8	2.0
20.00	91.5	3.3
15.00	86.5	5.0
10.00	78.7	7.9
8.00	74.2	4.5
6.00	68.4	6.8
5.00	64.2	4.1
4.00	58.9	5.3
3.00	52.8	6.2
2.00	45.4	7.3
1.50	41.1	4.4
1.00	35.0	6.1
0.80	31.7	3.3
0.60	27.9	3.7
0.50	25.2	2.7
0.40	21.5	3.7

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5122 TEL (705) 378-2416

DATE *[Signature]*

SAMPLE DIRECTORY NUMBER: DATA5 /255

SAMPLE ID: Hole 89-4 # 15554

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 24.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 12:05:39 07/16/91

REPT 12:17:48 07/16/91

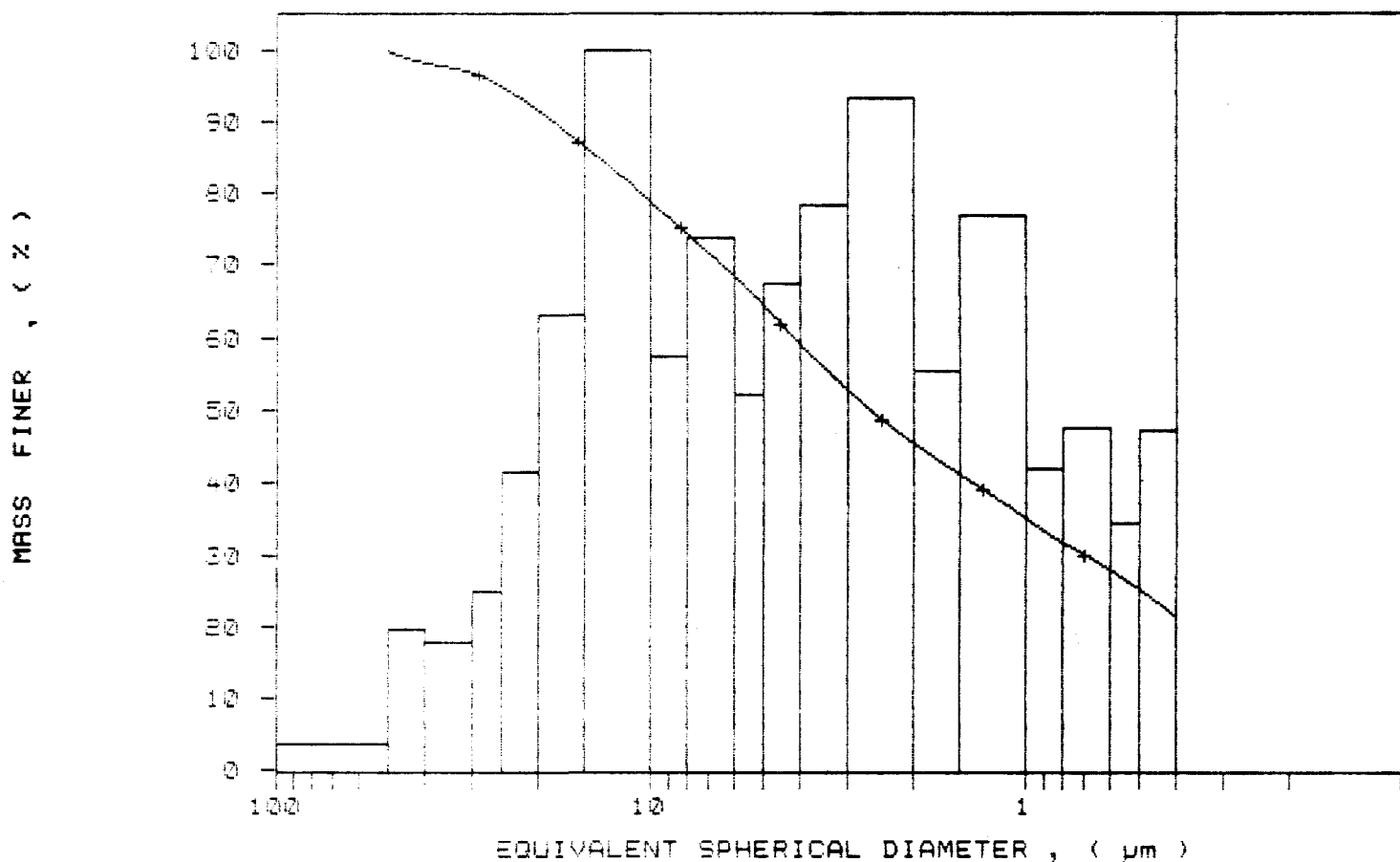
TOT RUN TIME 0:07:37

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7272 cp

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

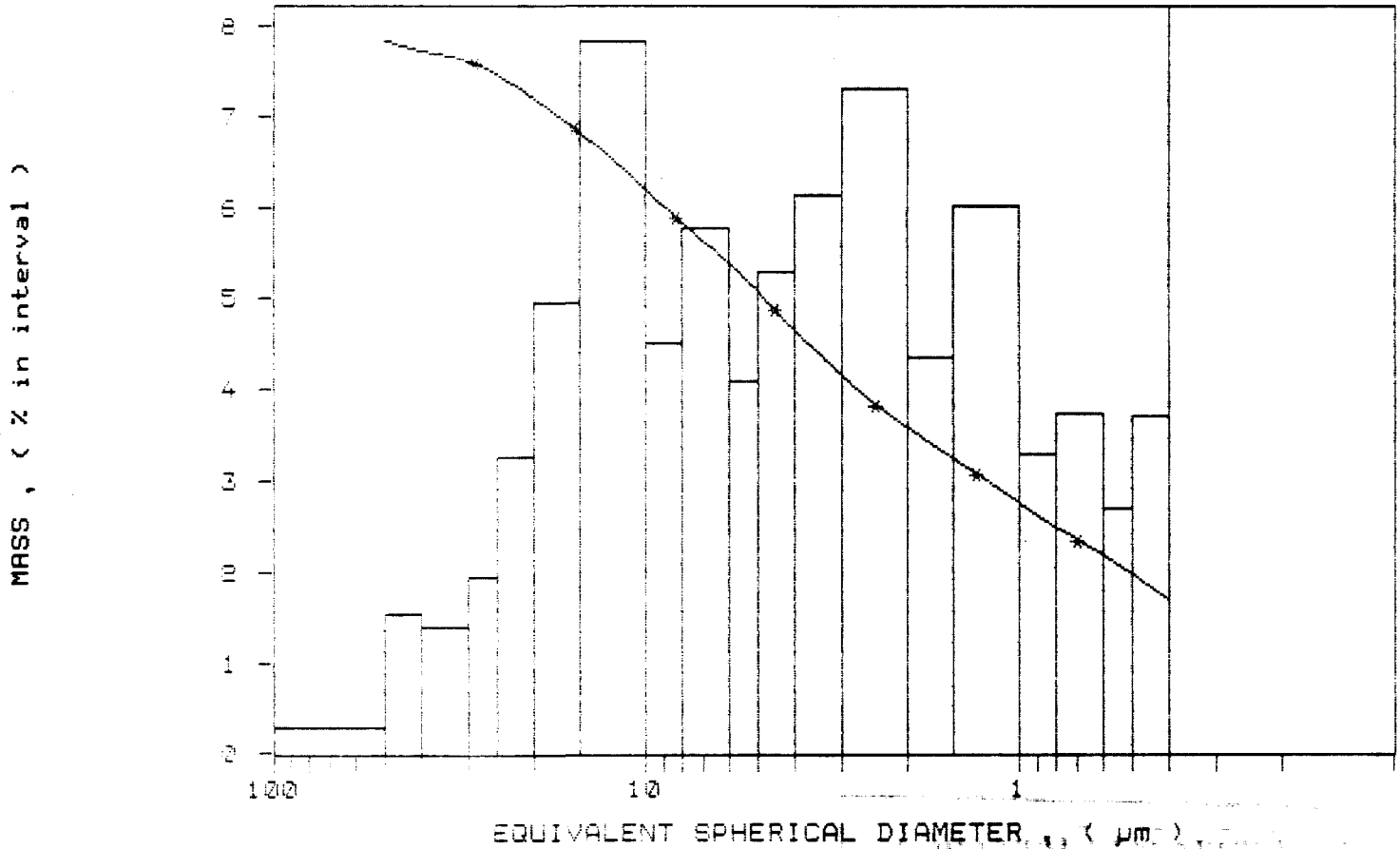


SAMPLE DIRECTORY/NUMBER: DATA5 /255
SAMPLE ID: Hole 89-4 # 15554
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 24.7 deg C

UNIT NUMBER: 1
START 12:05:39 07/16/91
REPT 12:17:48 07/16/91
TOT RUN TIME 0:07:37
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7272 cp

RUN TYPE: High Speed

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



SediGraph 5100 V2.63

Hole 89-4 # 15553

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /254
SAMPLE ID: Hole 89-4 # 15553
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 11:46:18 07/16/91
REPRT 11:58:12 07/16/91
TOT RUN TIME 0:07:23
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7274 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.25 μ m MASS DISTRIBUTION

MODAL DIAMETER: 3.22 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.7	0.3
40.00	98.7	1.1
30.00	97.0	1.7
25.00	96.2	0.8
20.00	94.5	1.7
15.00	91.5	3.0
10.00	86.7	4.9
8.00	84.2	2.4
6.00	80.7	3.6
5.00	77.2	3.5
4.00	72.7	4.5
3.00	66.5	6.2
2.00	58.6	7.9
1.50	53.1	5.5
1.00	46.1	7.0
0.80	41.6	4.5
0.60	36.2	5.4
0.50	32.4	3.8
0.40	27.6	4.8

**MINERAL RESEARCH
CANADA**

1 INDUSTRIAL BLVD. RR2
FERRY SOUND, ONTARIO
CANADA P2A 2W3

FAX (705) 378-5123 BUS (705) 378-2416

DATE *dm*

SAMPLE DIRECTORY NUMBER: DATA5 /254

UNIT NUMBER: 1

SAMPLE ID: Hole 89-4 # 15553

START 11:46:18 07/16/91

SUBMITTER: # 39

REPT 11:58:12 07/16/91

OPERATOR: KM

TOT RUN TIME 0:07:23

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

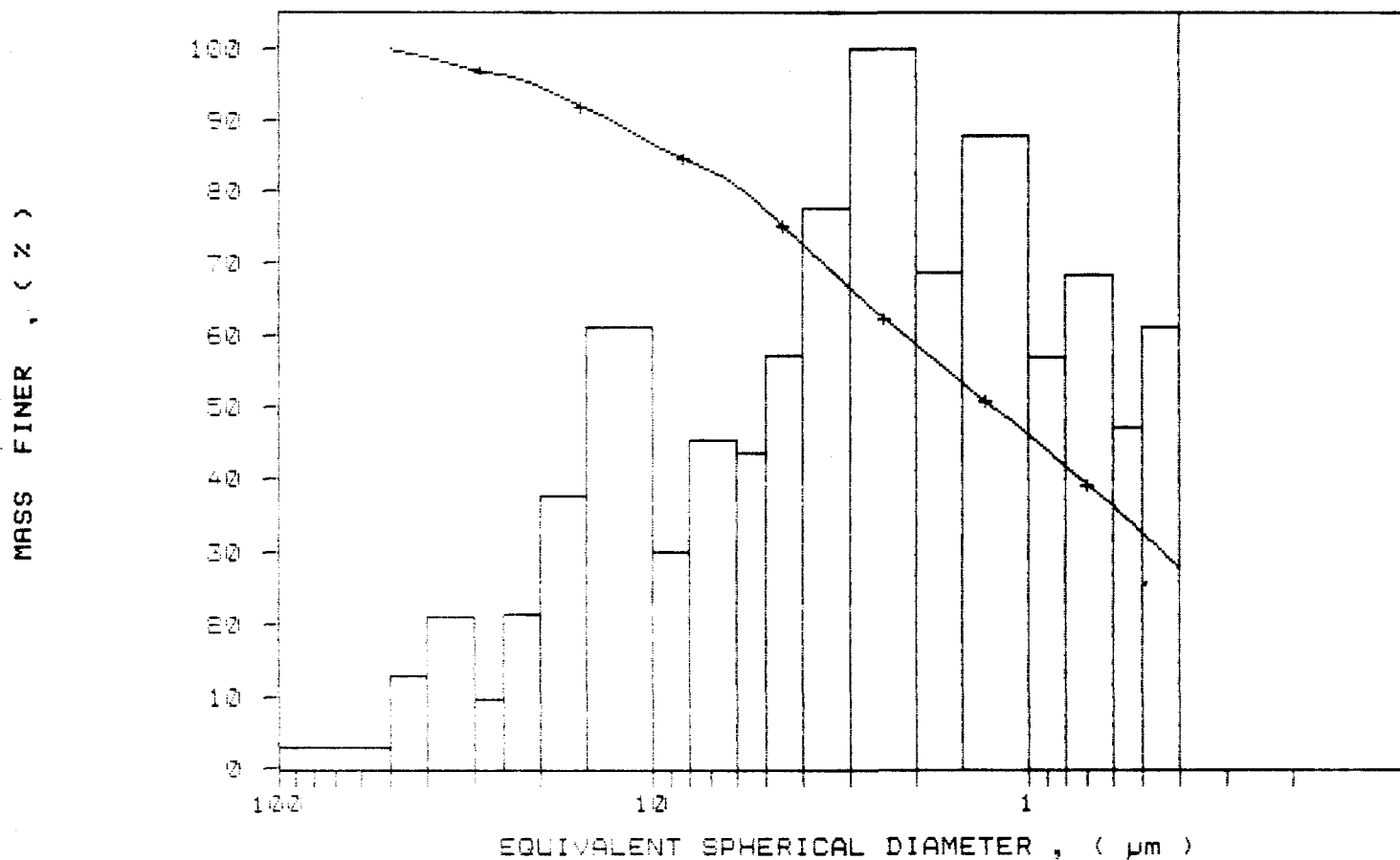
LIQUID TYPE: water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7274 cp

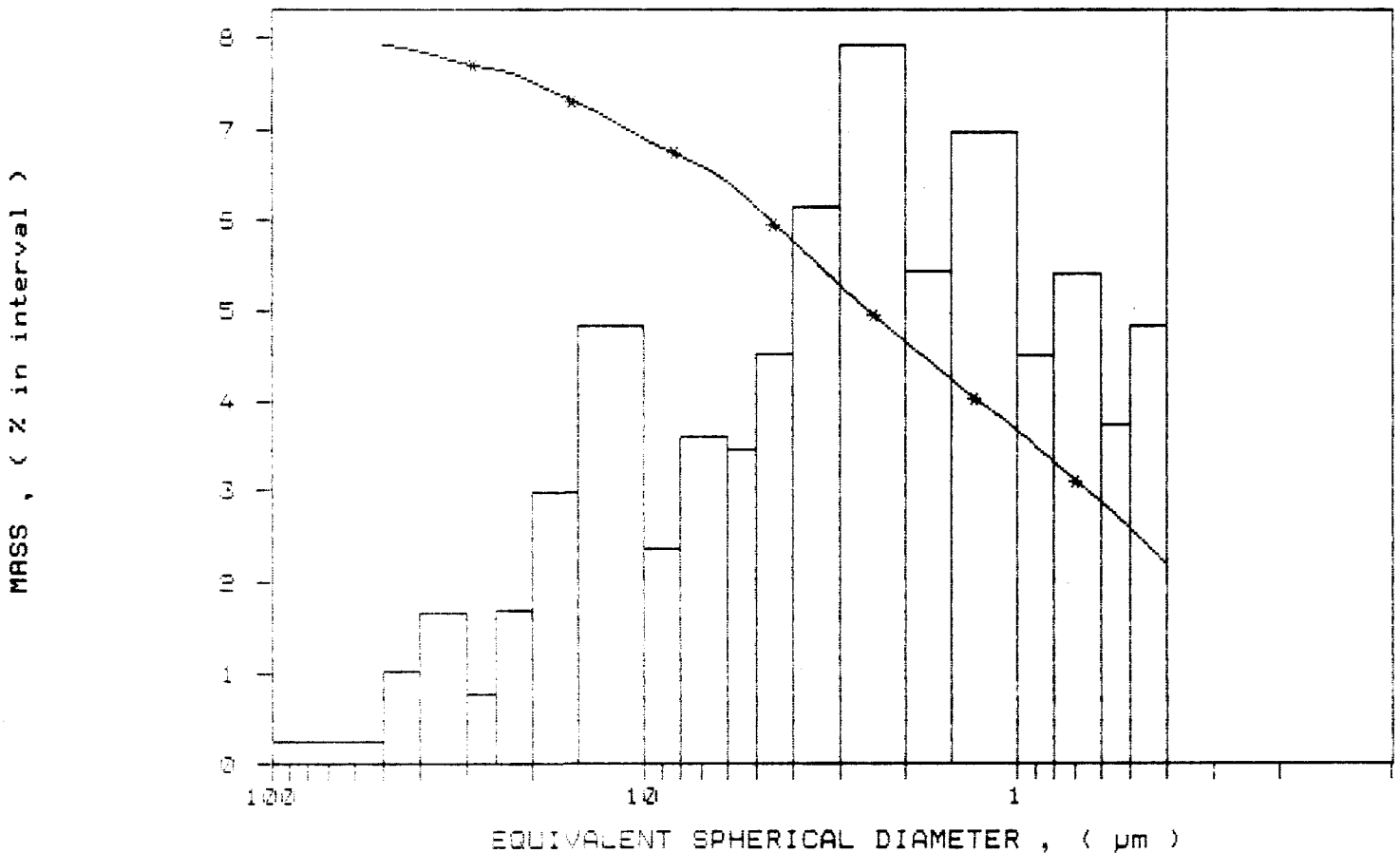
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /254
SAMPLE ID: Hole 89-4 # 15553
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 11:46:18 07/16/91
REPT 11:58:12 07/16/91
TOT RUN TIME 0:07:29
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7274 cp

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



SediGraph 5100 V2.05

Hole 889-4 # 15552

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAS /255
 SAMPLE ID: Hole 889-4 # 15552
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 11:28:01 07/16/91
 REPR 11:35:42 07/16/91
 TOT RUN TIME 0:07:20
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7275 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.27 μ m

MODAL DIAMETER: 2.95 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.1	-0.1
40.00	99.3	0.8
30.00	98.4	0.9
25.00	97.9	0.5
20.00	96.2	1.7
15.00	93.2	3.0
10.00	90.0	3.2
8.00	86.3	3.7
6.00	81.7	4.6
5.00	77.5	4.2
4.00	72.5	5.0
3.00	66.1	6.4
2.00	57.6	8.5
1.50	52.8	4.8
1.00	45.2	7.6
0.80	40.9	4.3
0.60	35.2	5.7
0.50	31.3	3.9
0.40	22.1	9.2

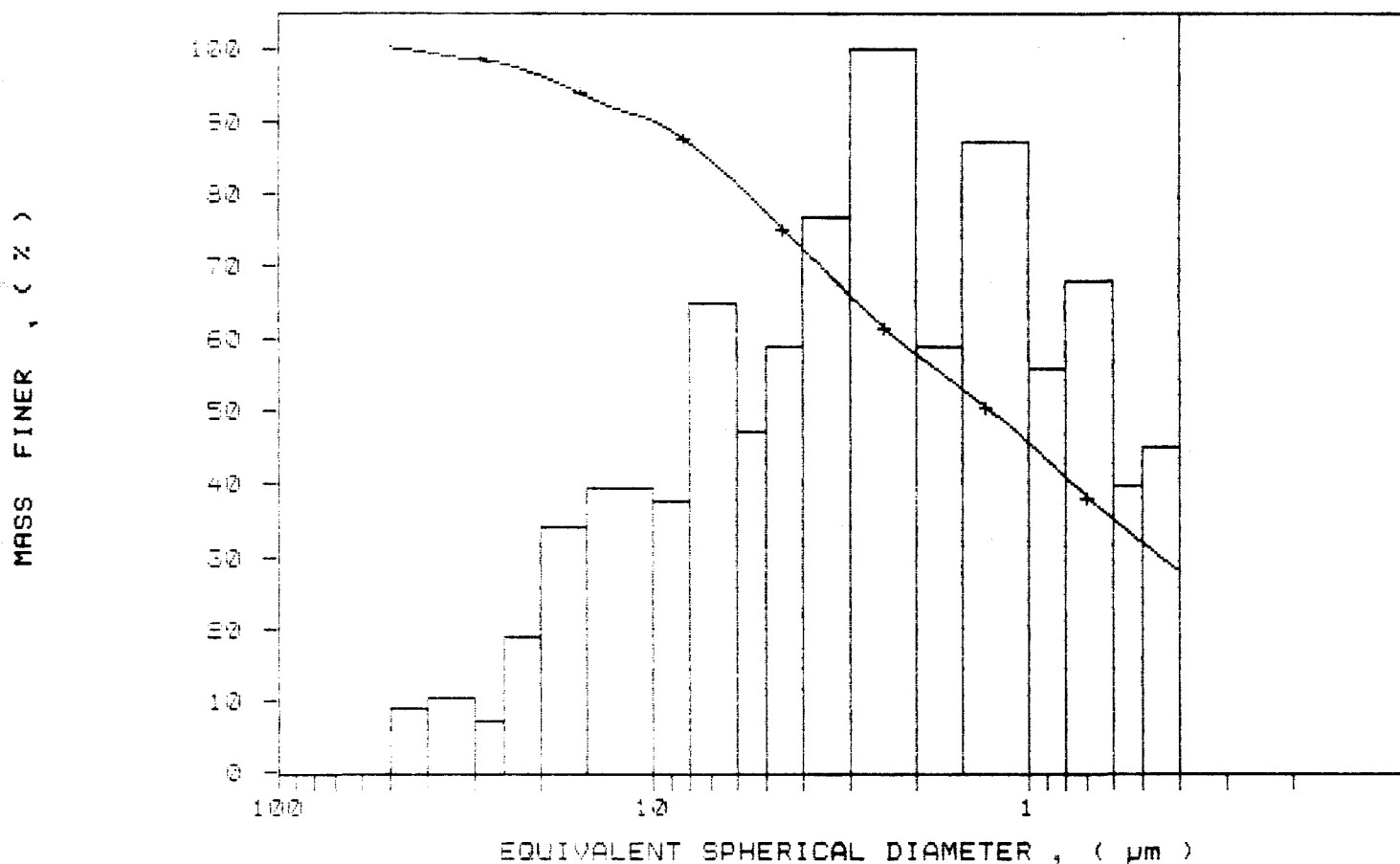
**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 FERRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 US (705) 378-2416

DATE *Jim*

SAMPLE DIRECTOR/NUMBER: DATAS /253	UNIT NUMBER: 1
SAMPLE ID: Hole 889-4 # 15552	START 11:28:01 07/16/91
SUBMITTER: # 39	REPT 11:35:42 07/16/91
OPERATOR: NM	TOT RUN TIME 0:07:20
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	LIQ VISC: 0.7275 cp
RUN TYPE: High Speed	

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

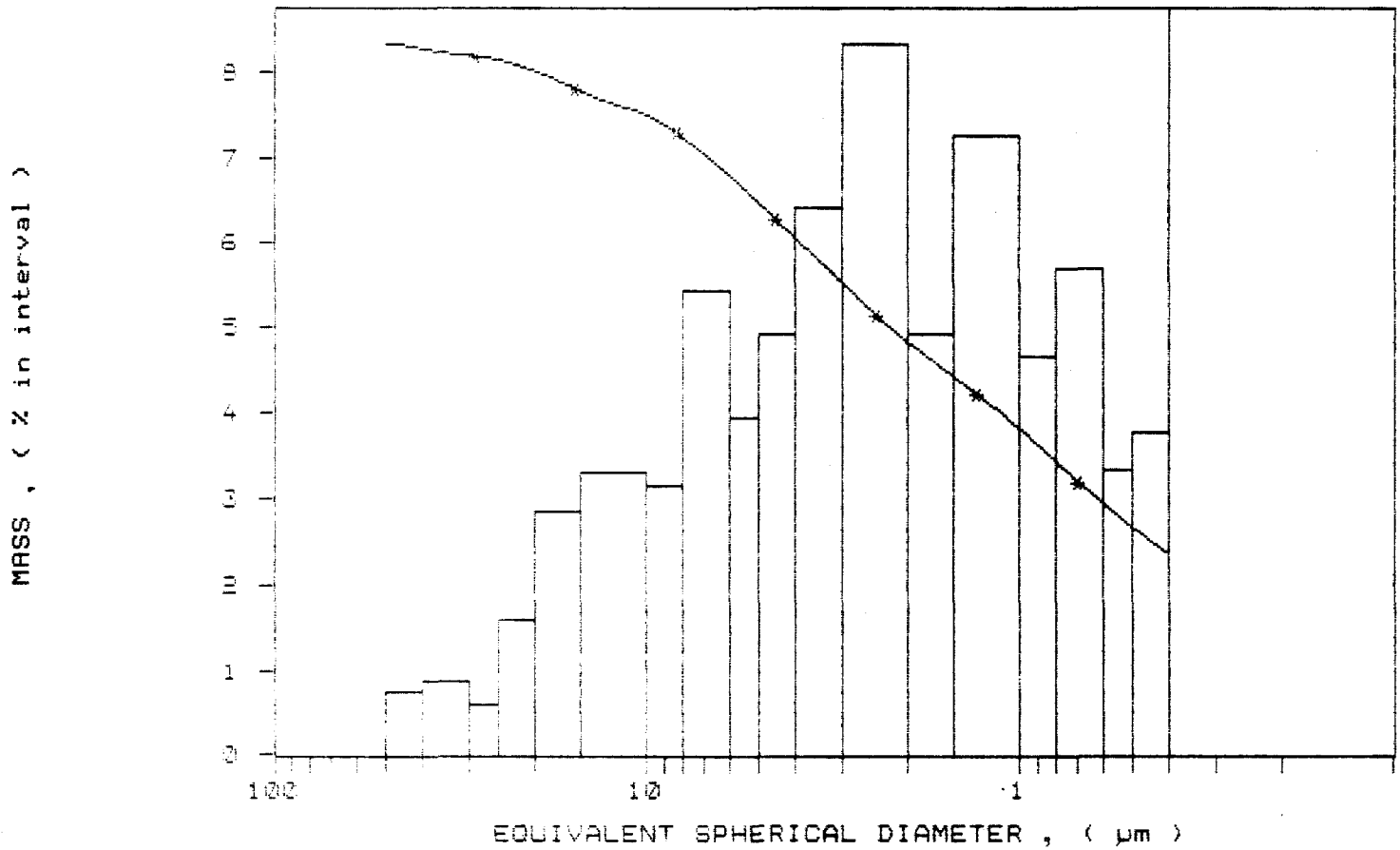


SAMPLE DIRECTORY/NUMBER: DATA5 /259
SAMPLE ID: Hole 889-4 # 15552
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 11:28:01 07/16/91
REPT 11:35:42 07/16/91
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7275 cp

RUN TYPE: High Speed

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



Hole 89-4 # 15551

SediGraph 5100 VE.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAS /252
 SAMPLE ID: Hole 89-4 # 15551
 SUBMITTER: #39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.5 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 11:07:02 07/16/91
 REPR 11:14:26 07/16/91
 TOT RUN TIME 0:07:05
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7279 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.53 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMMLATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.5	3.5
40.00	95.5	-0.1
30.00	95.7	0.2
25.00	94.7	1.0
20.00	92.2	2.5
15.00	85.6	6.6
10.00	85.0	0.6
8.00	82.0	3.0
6.00	77.5	4.5
5.00	74.5	3.0
4.00	69.6	4.7
3.00	66.1	6.6
2.00	55.0	11.1
1.50	49.6	5.4
1.00	41.8	7.8
0.80	37.5	4.3
0.60	32.5	5.0
0.50	30.6	1.9
0.40	24.5	6.1

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA E2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416
 DATE *dm*

SAMPLE DIRECTORY/NUMBER: DATA5 /252

SAMPLE ID: Hole 89-4 # 15551

SUBMITTER: GCS

OPERATOR: NM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 24.6 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 11:07:02 07/16/91

REPT 11:14:26 07/16/91

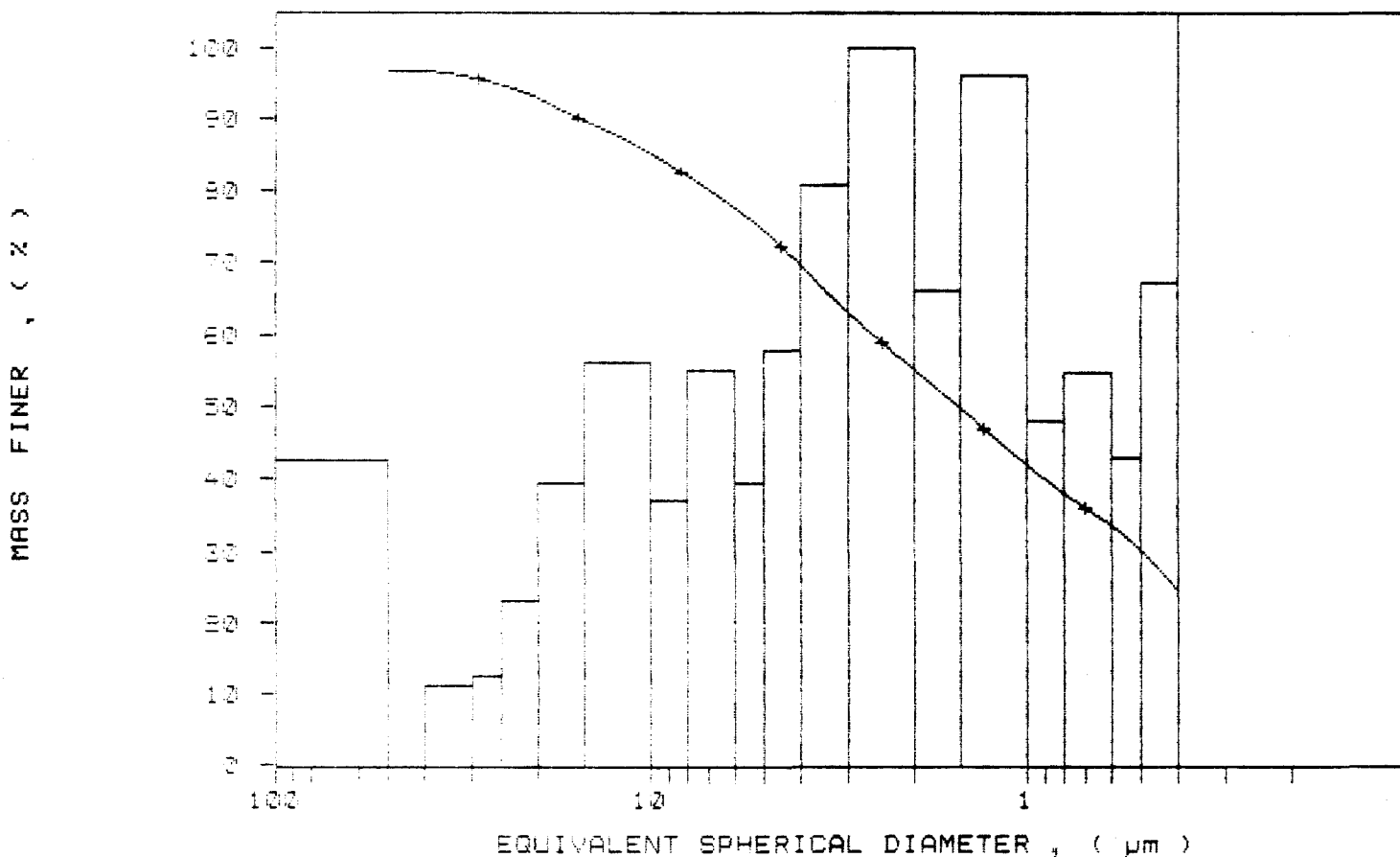
TOT RUN TIME 0:07:05

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

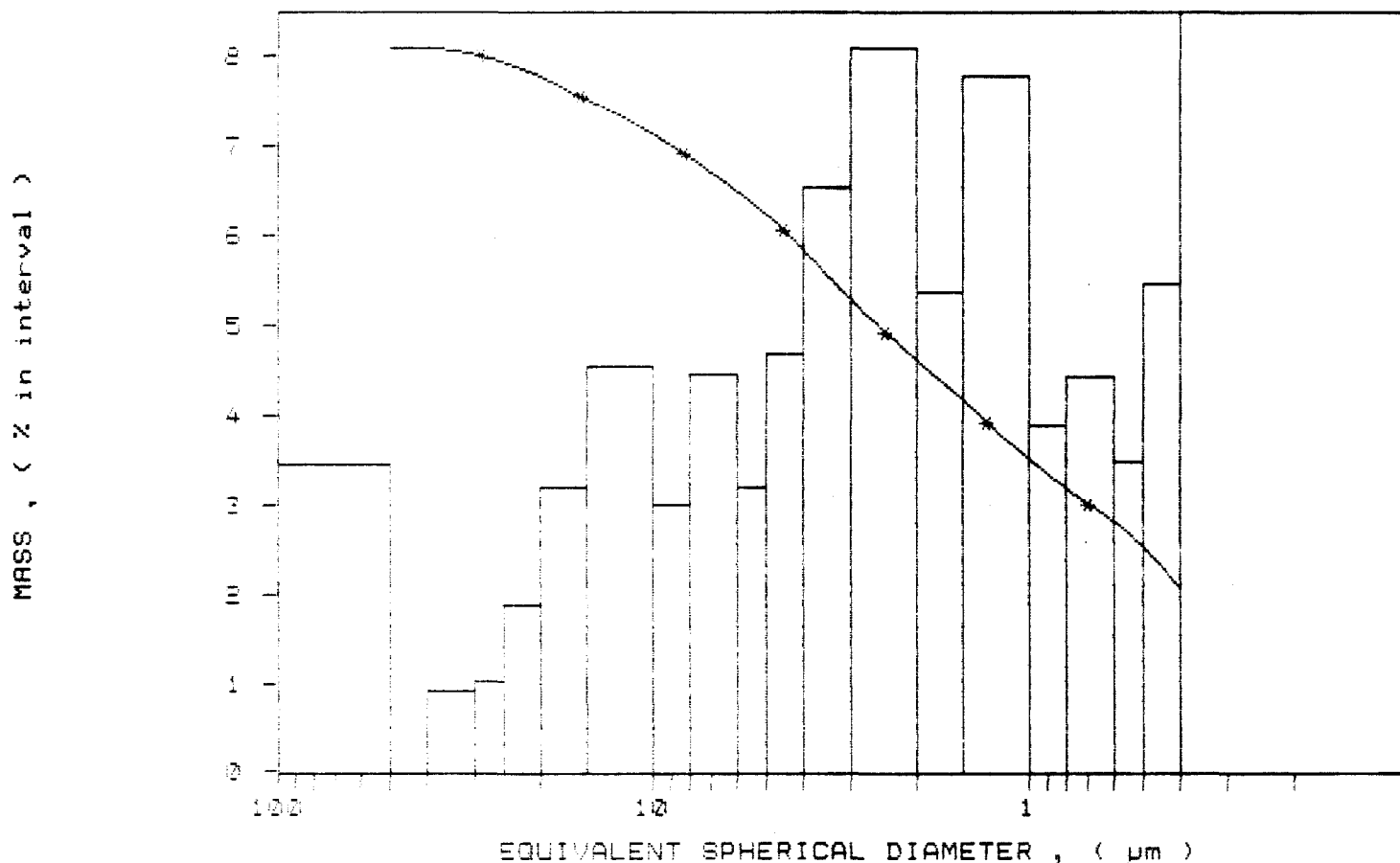
LIQ VISC: 0.7279 cp

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



SAMPLE DIRECTORY NUMBER: DATAS 1252	UNIT NUMBER: 1
SAMPLE ID: Hole 89-4 # 15551	START 11:07:02 07/16/91
SUBMITTER: #99	REPT 11:14:26 07/16/91
OPERATOR: KM	TOT RUN TIME 0:07:05
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.6 deg C	LIQ VISC: 0.7279 cp
RUN TYPE: High Speed	

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



MINERAL RESEARCH CANADA

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

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

89-7

ANALYSIS REPORT

SAMPLE # SCREEN % MOISTURE % pH (20% SOLIDS)

15401

+ 4	0.8	
+ 40	50.5	9.4
+100	34.0	
+200	3.5	
+325	1.8	
-325	9.4	

15402

+ 4	0.8	
+ 40	66.7	13.0
+100	23.5	
+200	3.9	
+325	0.5	
-325	4.0	

15403

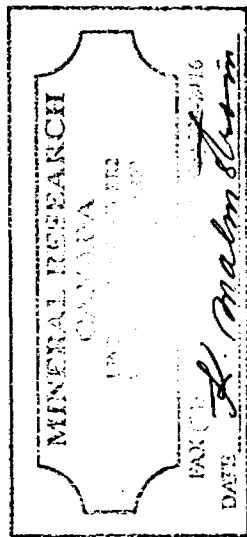
+ 4	1.6	
+ 40	64.8	9.3
+100	25.4	
+200	1.2	
+325	0.4	
-325	6.5	

15404

+ 4	3.1	
+ 40	41.3	10.9
+100	25.4	
+200	5.7	
+325	2.0	
-325	22.5	

15405

+ 4	2.8	
+ 40	62.3	8.9
+100	11.6	
+200	3.5	
+325	1.1	
-325	18.7	



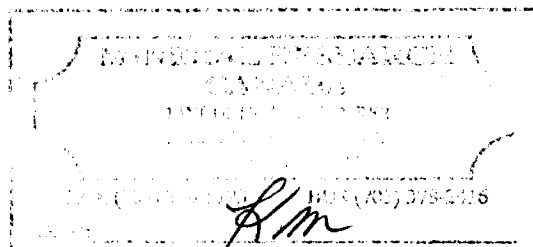
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
15406	+ 4	1.2	7.5	
	+ 40	50.6		
	+100	19.9		
	+200	5.7		
	+325	2.6		
	-325	20.0		
15407	+ 4	1.1	7.7	
	+ 40	53.3		
	+100	33.5		
	+200	2.1		
	+325	1.0		
	-325	9.0		
15408	+ 4	1.1	8.7	
	+ 40	66.7		
	+100	20.0		
	+200	3.3		
	+325	1.5		
	-325	7.4		
15409	+ 4	0.6	8.7	
	+ 40	64.8		
	+100	15.4		
	+200	3.3		
	+325	1.5		
	-325	13.9		
15410	+ 4	3.2	3.4	
	+ 40	75.6		
	+100	9.2		
	+200	2.0		
	+325	0.5		
	-325	8.7		



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 %	pH (20% SOLIDS)
15411	+ 4	0	8.1	
	+ 40	61.2		
	+100	16.8		
	+200	5.3		
	+325	2.6		
	-325	14.1		
15412	+ 4	0.5	16.5	
	+ 40	56.1		
	+100	24.6		
	+200	3.2		
	+325	2.8		
	-325	17.8		
15413	+ 4	1.9	7.8	
	+ 40	55.3		
	+100	27.8		
	+200	2.7		
	+325	1.5		
	-325	10.8		
15414	+ 4	0	12.0	170
	+ 40	54.5		
	+100	20.7		
	+200	8.3		
	+325	2.5		
	-325	11.0		
15415	+ 4	0.5	10.1	10.1
	+ 40	50.3		
	+100	34.2		
	+200	3.8		
	+325	1.8		
	-325	9.4		

ANALYZED BY
 DATE
 SIGNATURE
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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 % pH (20% SOLIDS)

15416 + 4 0
 + 40 23.4 9.7
 +100 39.7
 +200 8.9
 +325 2.1
 -325 25.9

15417 + 4 0
 + 40 0.5
 +100 56.3 10.6
 +200 17.5
 +325 3.4
 -325 22.3

15418 + 4 0
 + 40 19.9 7.4
 +100 64.3
 +200 3.5
 +325 1.2
 -325 11.1

15419 + 4 0.5
 + 40 61.6 5.6
 +100 25.5
 +200 2.7
 +325 1.4
 -325 9.3

15420 + 4 0.9
 + 40 22.1 2.8
 +100 12.5
 +200 3.8
 +325 1.8
 -325 8.9

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD., RR2
 PARRY SOUND, ON. CANADA
 P2A 2W8
 TEL: (705) 378-2416
 FAX: (705) 378-5123
 DATE: *Jim*

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 %	pH (20% SOLIDS)
15421	+ 4	21.8	4.9	
	+ 40	41.0		
	+100	10.5		
	+200	3.1		
	+325	2.9		
	-325	26.7		
15422	+ 4	15.2	5.8	
	+ 40	60.9		
	+100	6.8		
	+200	2.7		
	+325	1.1		
	-325	13.3		
15423	+ 4	0	14.9	
	+ 40	0.6		
	+100	7.9		
	+200	22.0		
	+325	20.9		
	-325	53.7		
15424	+ 4	0	10.8	
	+ 40	1.4		
	+100	37.1		
	+200	22.3		
	+325	4.7		
	-325	32.5		
15425 E0H	+ 4	0	16.2	
	+ 40	1.9		
	+100	56.5		
	+200	3.0		
	+325	18.2		
	-325	26.4		

H/m

SAMPLE DIRECTOR: H. W. J. LATHI / 7350
 SAMPLE ID: 1000 0000 0001
 SUBMITTER: # 24
 OPERATOR: MM
 SAMPLE TYPE: 01 015
 LIQUID TYPE: WATER
 ANALYSIS TECH: 0000 0000 0000 TYPE: High Speed

UNIT NUMBER: 1
 START 16:26:34 08/21/91
 REPR 16:46:34 08/21/91
 TOT RUN TIME 0:07:24
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cc

STARTING DIAMETER: 1000.00 µm
 ENDING DIAMETER: 0.1000 µm

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

SIZE DISTRIBUTION

MEDIA DIAMETER: 1000.00 µm

MODAL DIAMETER: 9.78 µm

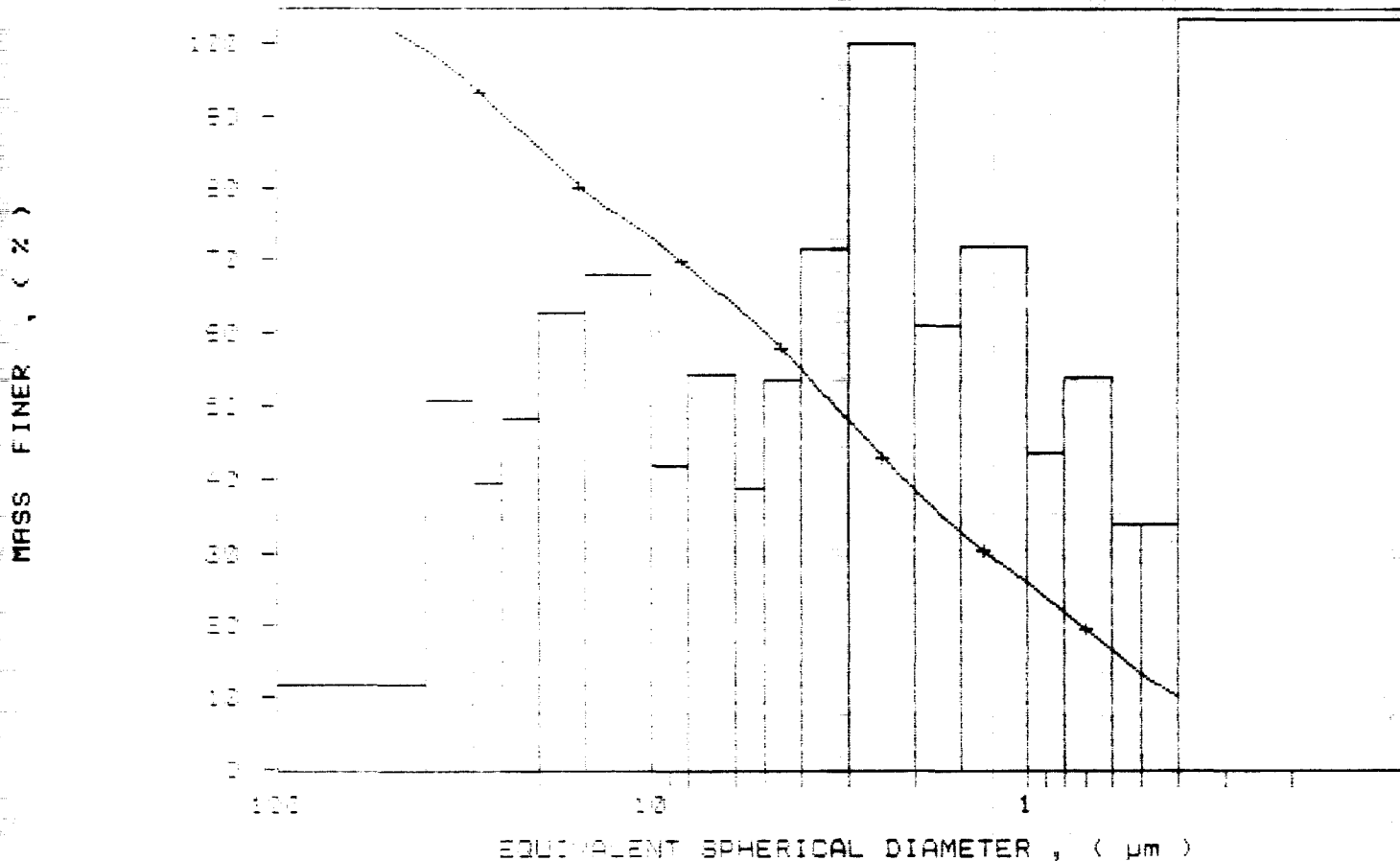
DIAMETER (µm)	FRACTION	INTERVAL (µm)
40.00	0.000	1.00
35.00	0.000	4.00
30.00	0.000	5.00
25.00	0.000	4.00
20.00	0.000	5.00
15.00	0.000	5.00
10.00	0.000	4.00
8.00	0.000	4.00
6.00	0.000	3.00
4.00	0.000	2.00
3.00	0.000	2.00
2.00	0.000	2.00
1.50	0.000	2.00
1.00	0.000	2.00
0.75	0.000	2.00
0.50	0.000	2.00
0.25	0.000	2.00
0.10	0.000	0.10

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. #102
 BARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (505) 378-4123 BUS (505) 378-2416
 DATE *A. Mahmood*

SAMPLE IDENTIFICATION NUMBER: 15401
 SAMPLE ID: Hole 89-7 # 15401
 SUBMITTER: # 09
 OPERATOR: J.M.
 SAMPLE TYPE: Silty
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 16:26:34 08/21/91
 REPR 16:48:34 08/21/91
 TOT RUN TIME 0:07:24
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cc

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



1019 39-7 # 15402

Sedimentation Data

PAGE 1

SAMPLE NAME: *1019 39-7 # 15402*
 SAMPLE ID: *1019 39-7 # 15402*
 SUBMITTER: # *25*
 OPERATOR: *AM*
 SAMPLE TYPE: *CLAY*
 LIQUID TYPE: *water*
 ANALYSIS TEMP: *20.0 deg C* RUN TYPE: *High Speed*

UNIT NUMBER: 1
 START 16:54:10 08/21/91
 REPR 17:14:08 08/21/91
 TOT RUN TIME 0:07:18
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7266 cc

STARTING CLARIFIER: *3.000 AM*
 ENDING CLARIFIER: *3.000 AM*

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIA: *CLAY* MODAL DIAMETER: 0.47 μ m

DIAMETER (UM)	CONCENTRATION (%)	CLASS IN INTERVAL (%)
50.00	0.0	0.4
42.00	0.0	0.4
36.00	0.0	0.3
30.00	0.0	0.4
26.00	0.0	0.3
20.00	0.0	0.2
15.00	0.0	0.2
10.00	0.0	0.3
6.00	0.0	0.7
4.00	0.0	4.8
3.00	0.0	2.8
2.00	0.0	7.2
1.50	0.0	0.8
1.00	0.0	7.2
0.75	0.0	0.8
0.50	0.0	4.4
0.30	0.0	4.4
0.20	0.0	0.8

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-2416
 BUS (705) 378-2416
 DATE *AM*

Hole 89-7 # 15402

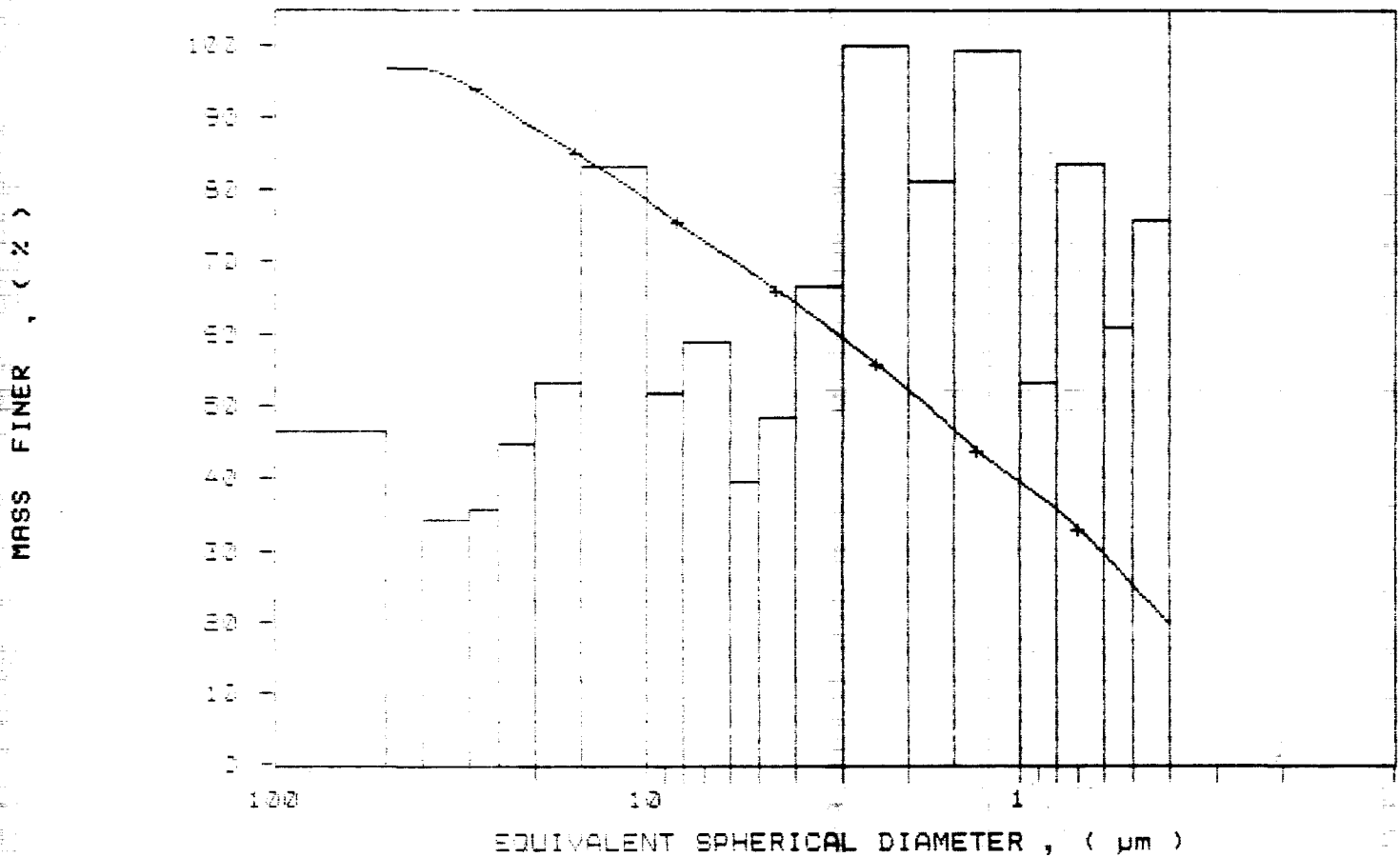
Section 5100 02.91

PAGE 2

SAMPLE DIRECTORY NUMBER: DATA 7881
SAMPLE ID: Hole 89-7 # 15402
SUBMITTER: # 39
OPERATOR: RM
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 94.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 16:54:10 08/21/91
REPT 17:14:08 08/21/91
TOT RUN TIME 0:07:18
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7266 cp

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



Hole 39-7 # 15402

Sed:Graph 5100 72.90

PAGE 3

SAMPLE DIACATORY NUMBER: DATA5 /321

SAMPLE ID: Hole 39-7 # 15402

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: water

ANALYSIS TEMP: 24.0 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 16:54:10 08/21/91

REPT 17:14:08 08/21/91

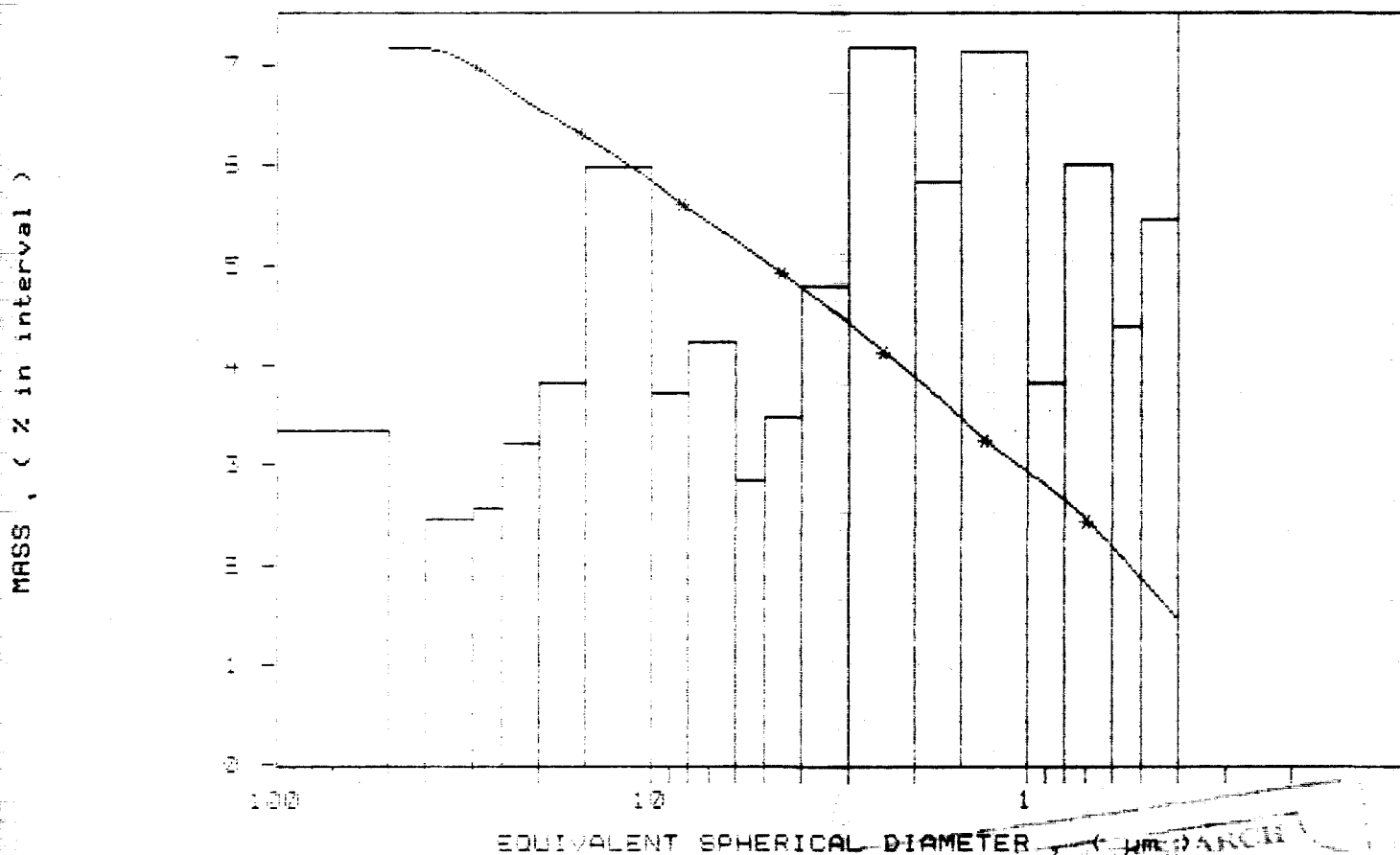
TOT RUN TIME 0:07:18

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7266 cp

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



LABORATORY OF SOILS
 ARS, USDA
 BELTSVILLE, MARYLAND 21705
 RECEIVED
 8/21/91
 BY: [Signature]
 TITLE: [Illegible]

Sel. Graph 5100 72.12

SAMPLE LABEL NO: NUMBER: D-TAE /313
 SAMPLE ID: note 89-7 # 15405
 SUBMITTER: # 35
 OPERATOR: DM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 17:30:32 08/21/91
 REPR1 10:21:55 08/22/92
 TOT RUN TIME 0:07:08
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7268 cp

STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.00 µm MODAL DIAMETER: 0.40 µm

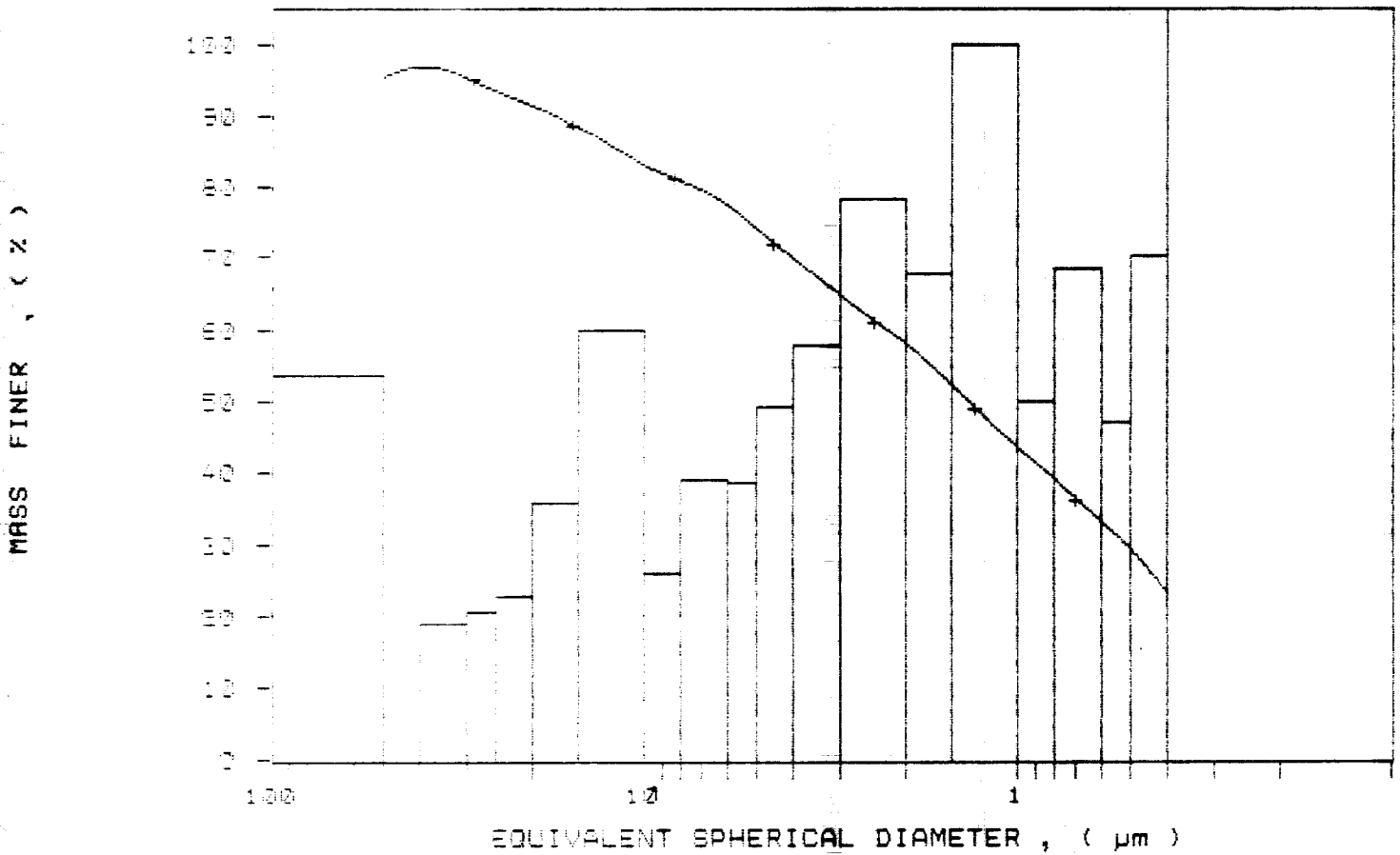
DIAMETER (µm)	CUMULATIVE Wt% FINER (%)	MASS IN INTERVAL (%)
50.00	30.4	4.6
40.00	31.2	-1.4
30.00	35.1	1.6
25.00	37.7	1.2
20.00	39.3	2.0
15.00	45.2	6.1
10.00	52.1	5.3
8.00	55.2	2.6
6.00	57.4	2.4
5.00	59.0	2.4
4.00	64.8	4.6
3.00	69.2	5.0
2.50	70.0	0.6
2.00	73.0	6.0
1.50	77.1	5.3
1.00	82.5	6.6
0.80	84.1	4.3
0.60	87.2	3.9
0.50	89.1	4.1
0.40	93.1	6.1

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5123 TEL (705) 378-2416
 DATE *DM*

SAMPLE DIRECTORY NUMBER: DATA /319
 SAMPLE ID: Hole 89-7 # 15403
 SUBMITTER: # 25
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 24 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 17:30:32 08/21/91
 REPR 10:21:55 08/22/92
 TOT RUN TIME 0:07:08
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7268 cp

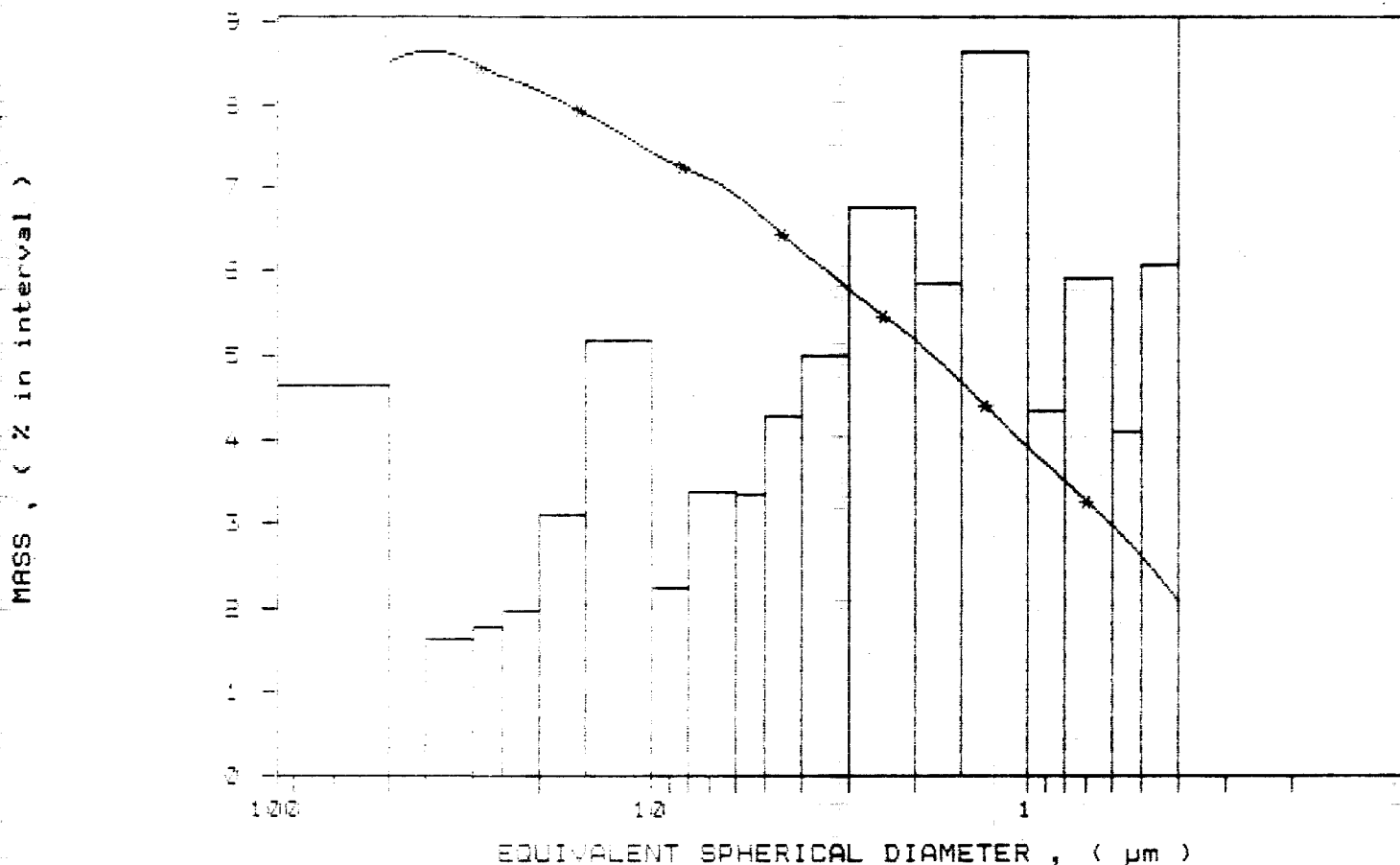
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 7319
 SAMPLE ID: Hole 89-7 # 15403
 SUBMITTER: # 39
 OPERATOR: MM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 17:30:32 08/21/91
 REPT 10:21:55 08/22/91
 TOT RUN TIME 0:07:08
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7268 cp

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



MINERAL RESEARCH
 CANADA
 1100 CENTRAL BANK BLDG
 2000 AVENUE OF THE STARS
 CANADA, T2A 2W4
 TEL: (416) 291-3121
 FAX: (416) 291-3122
MM

SAMPLE NO: 1000
 SUBMITTER: J. B. ...
 OPERATOR: J. B. ...
 SAMPLE WEIGHT: 2.6000 g
 LIQUID: distilled water
 HIGH SPEED: 1000 rpm

UNIT NUMBER: 1
 START 10:40:21 08/22/91
 REPT 11:01:15 08/22/91
 TOT RUN TIME 0:10:22
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7274 cP

STARTING TEMPERATURE: 20.00 C
 ENGINE SPEED: 1000 rpm
 REYNOLDS NUMBER: 0.121
 FULL SCALE MASS %: 100

DISTRIBUTION

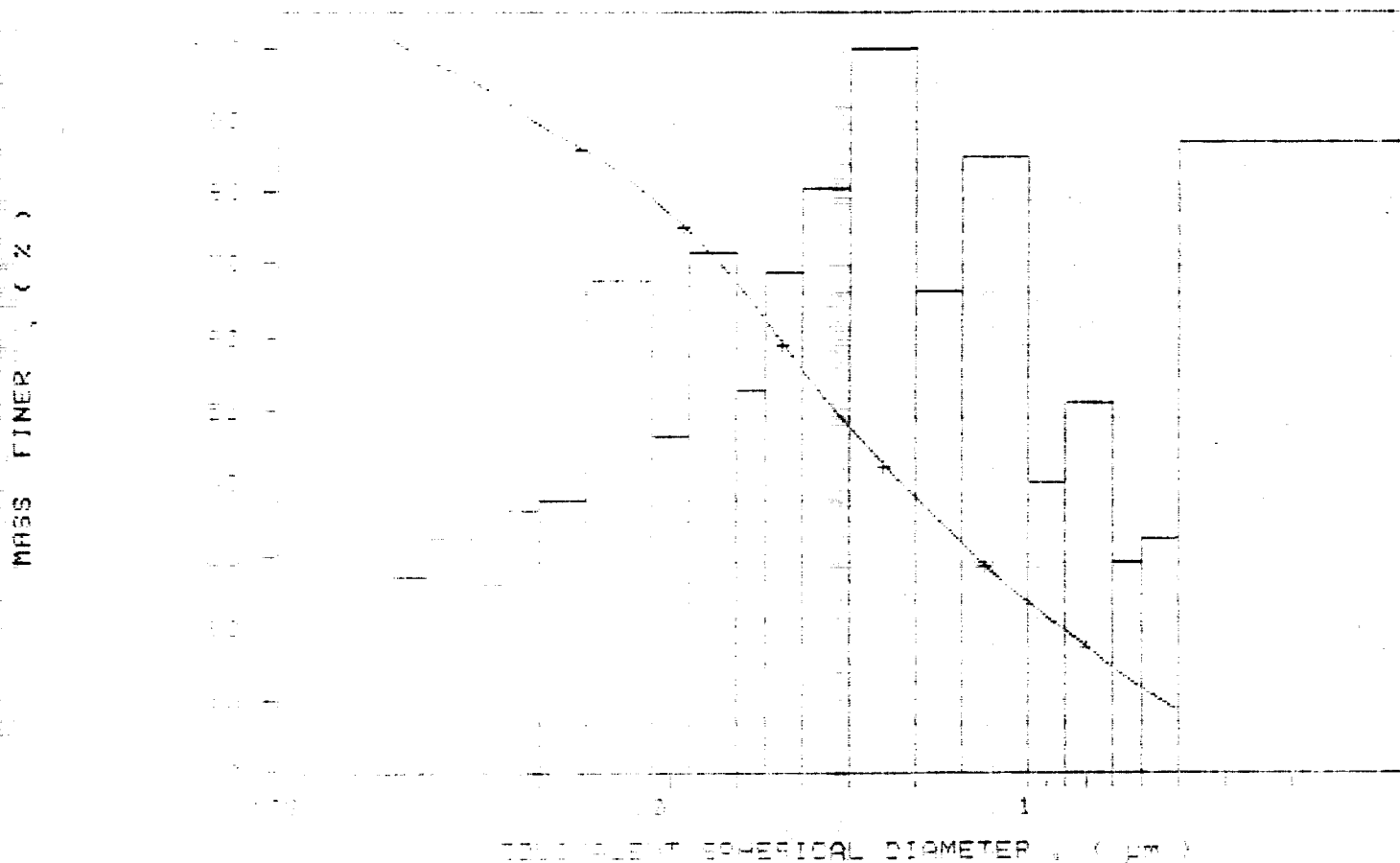
MODEL DIAMETER: 4.57 mm		
1000		
4000		
10000		
20000		
30000		
40000		
50000		
60000		
70000		
80000		
90000		
100000		
110000		
120000		
130000		
140000		
150000		
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180000		
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960000		
970000		
980000		
990000		
1000000		

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5123
 (705) 378-2416
 DATE

SAMPLE NO. 10404
 SAMPLE WEIGHT 10.0000 g
 SUBSTITUTION 0.0000 g
 OPERATOR
 SAMPLE NO. 10404
 LIQUID DENSITY 0.9998 g/cc
 ANALYSIS METHOD 10404 High Speed

UNIT NUMBER: 1
 START 10:40:21 08/22/91
 REPT 11:01:15 08/22/91
 TOT RUN TIME 0:07:22
 SAM DENS: 2.8000 g/cc
 LIQ DENS: 0.9998 g/cc
 LIQ VISC: 0.0274 cP

ACCUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



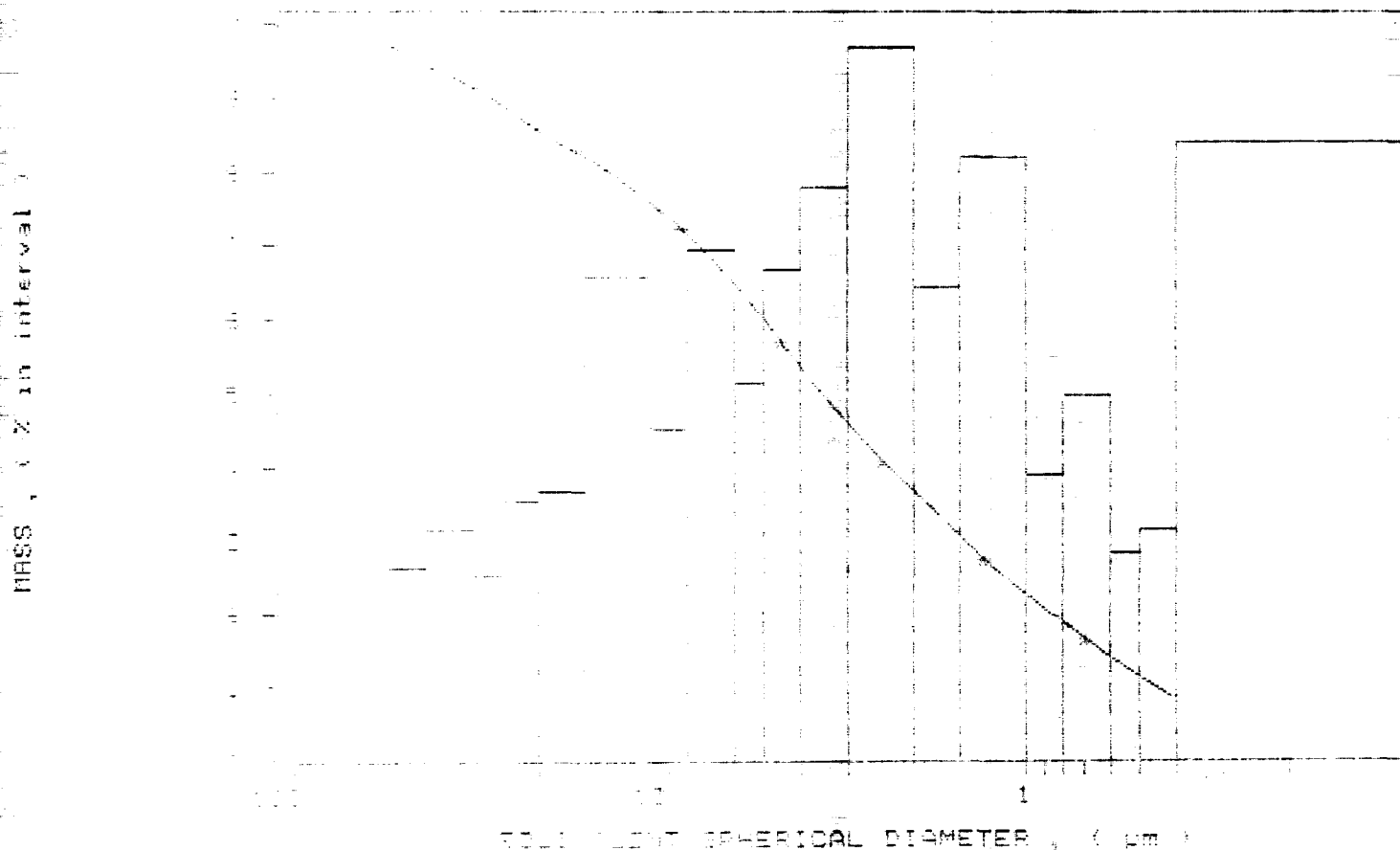
1012 37 7 * 15404

4461 3

SAMPLE NO: 1012 37 7 * 15404
 SAMPLE WEIGHT: 2.5000 g
 SUBMITTER: [unclear]
 OPERATOR: [unclear]
 SAMPLE DESCRIPTION: [unclear]
 LABEL NO: [unclear]
 ANALYSIS METHOD: High Speed

UNIT NUMBER: 1
 START 10:40:12 08/22/91
 REPT 11:01:15 08/22/91
 TOT RUN TIME 0:07:12
 SAM DENS: 2.5000 g/cc
 LIG DENS: 0.9972 g/cc
 LIG VISC: 0.7274 cc

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

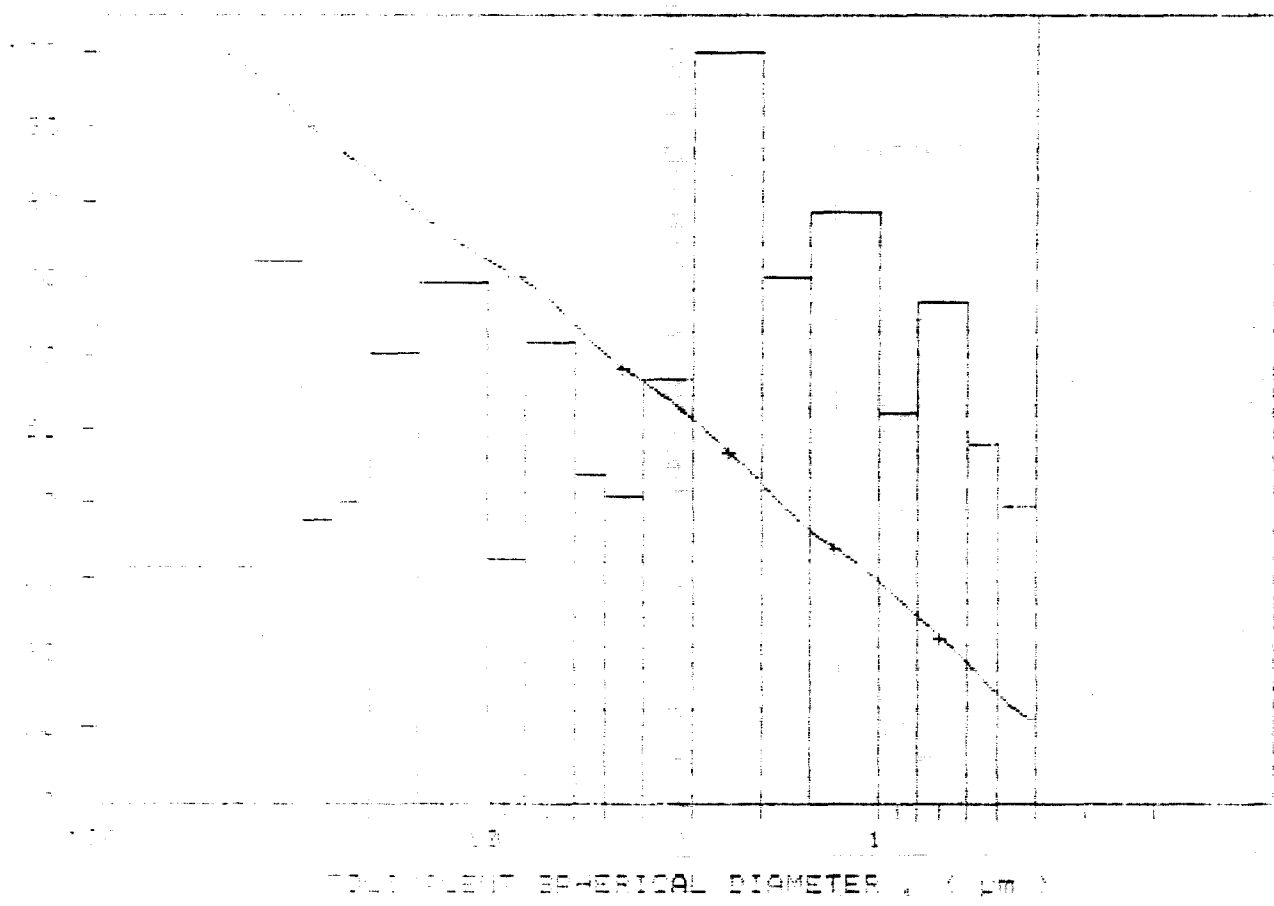


SAMPLE NO. 17-7 # 15405
 SAMPLE WEIGHT 2.6000 g
 SUBMITTED BY
 OPERATOR
 SAMPLE NO. 17-7 # 15405
 LIQUID LIQ. 0.9942 g/cc
 ANALYSIS METHOD High Speed

UNIT NUMBER: 1
 START 10:59:18 08/22/91
 REPT 11:19:44 08/22/91
 TOT RUN TIME 0:07:29
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7275 cp

RELATIVE MASS PERCENT FINER VS. DIAMETER
 MASS REPLICATION VS. DIAMETER

MASS FINER, (%)



SAMPLE ID: 01017
 SAMPLE ID: 01017
 SUBMITTER: B. J. ...
 OPERATOR: MA
 SAMPLE TYPE: ...
 LIQUID TYPE: ...
 ANALYSIS: ...

UNIT NUMBER: 1
 START: 11:21:00 08/22/91
 REPT: 11:40:55 08/22/91
 TOT RUN TIME: 0:07:01
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7270 cp

STARTING ...
 ENDING ...

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

SIZE DISTRIBUTION

MEDIA: ... MODAL DIAMETER: 4.50 μ m

DIAMETER	...	...
50.000	...	...
40.000	...	...
30.000	...	...
20.000	...	...
15.000	...	...
10.000	...	...
5.000	...	...
2.000	...	...
1.000	...	...
0.500	...	...
0.250	...	...
0.125	...	...
0.062	...	...
0.031	...	...
0.015	...	...
0.007	...	...

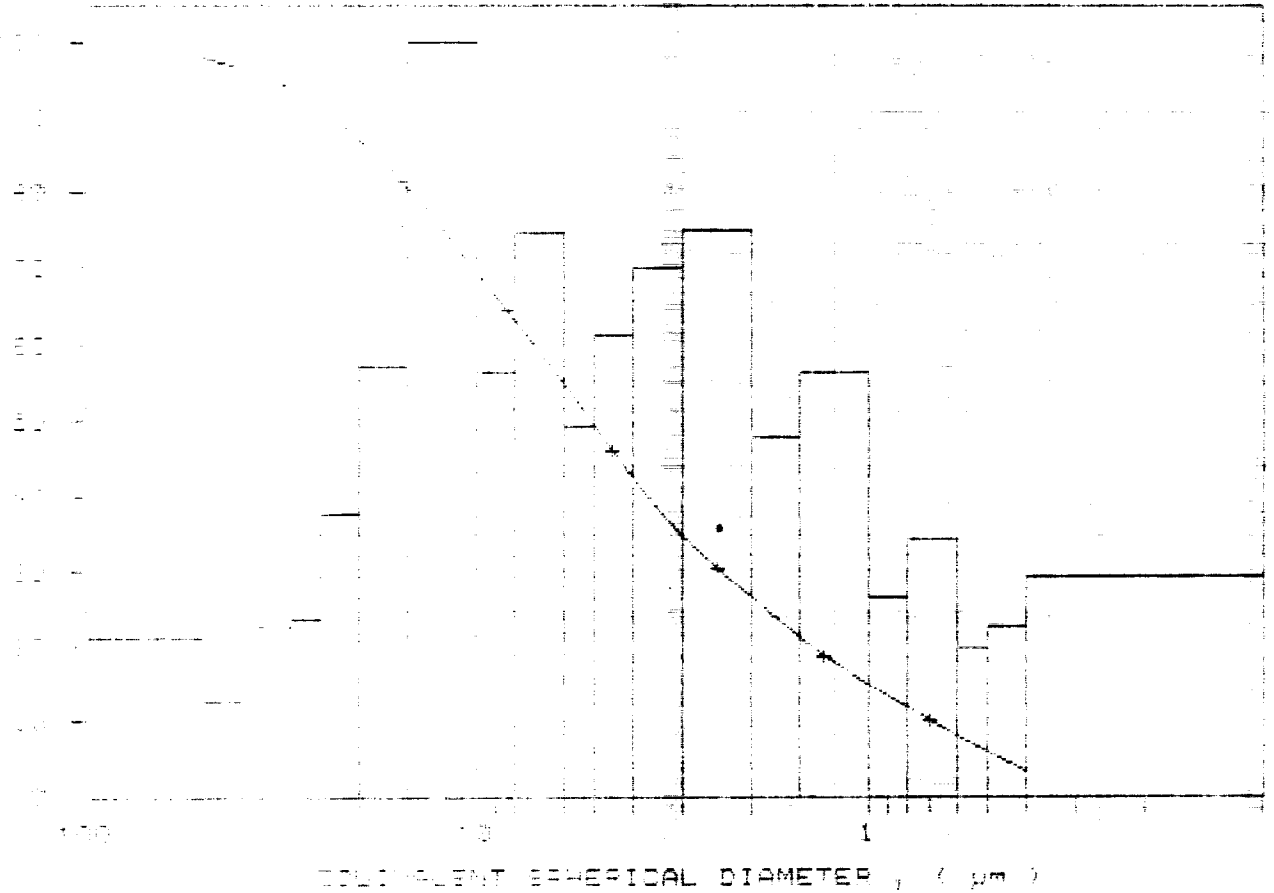
MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. R22
 FERRY SQUARE, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5123
 BUS (705) 378-2416
 DATE

SAMPLE ID: 10101
 SAMPLE NO: 10101
 SUBM. DATE: 08/22/01
 OPERATION: 101
 SAMPLE TYPE: 101
 LIQUID: 101
 ANALYSIS: 101

UNIT NUMBER: 1
 START: 11:21:09 08/22/01
 REPR: 11:40:53 08/22/01
 TOT RUN TIME: 0:07:01
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7270 cP

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

MASS FINER (%)



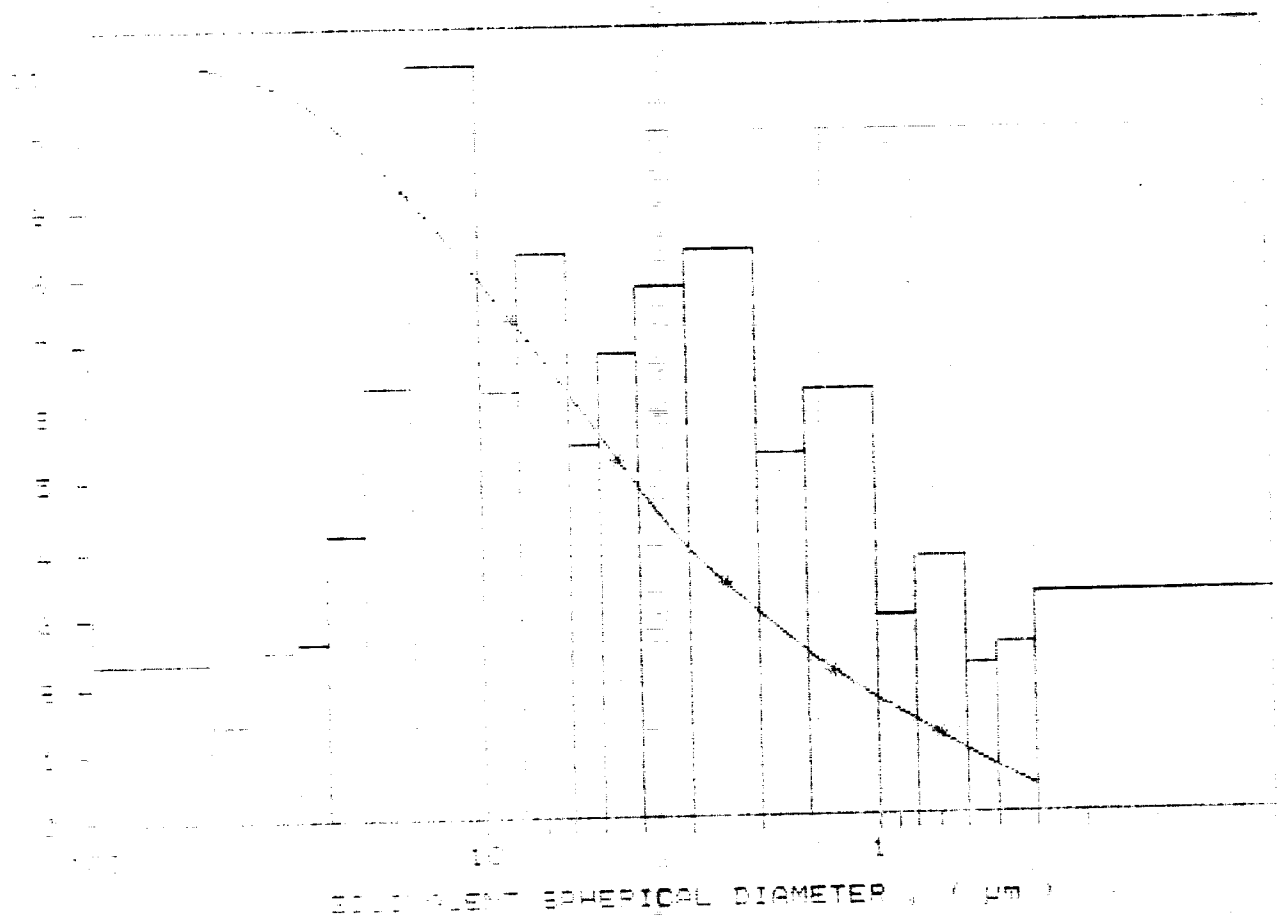
SOLID SPHERICAL DIAMETER (µm)

SAMPLE NO: 1110
 SAMPLE NO: 1110
 SUBMITTER:
 OPERATION:
 SAMPLE NO: 1110
 LIQUID NAME:
 ANALYSIS:
 YAG: High Speed

UNIT NUMBER: 1
 START 11:21:09 08/22/91
 REPT 11:40:55 08/22/91
 TOT RUN TIME 0:07:01
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7270 cp

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

MASS, (% in interval)



SAMPLE DIRECTION: ...
 SAMPLE LIQUID: ...
 SUBMITTER # ...
 OPERATION: ...
 SAMPLE TYPE: ...
 LIQUID TYPE: ...
 ANALYSIS TYPE: ... High Speed

UNIT NUMBER: 1
 START 12:06:54 08/22/91
 REPT 12:23:11 08/22/91
 TOT RUN TIME 0:07:37
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7265 cp

STARTING SPEED: ...
 ENDING SPEED: ...
 REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

GRAIN DISTRIBUTION

MODAL DIAMETER: 8.65 um

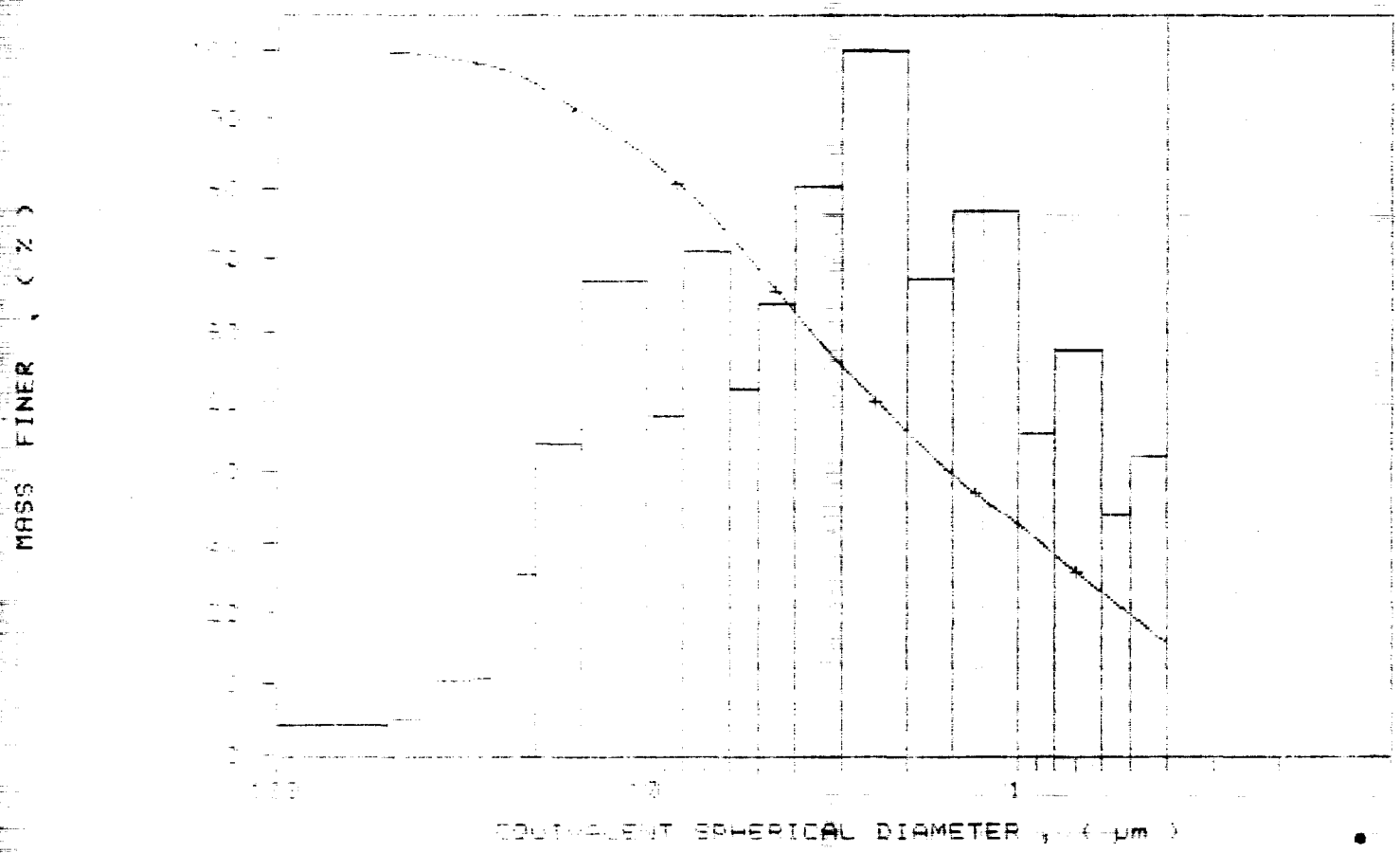
DIAMETER (um)	PERCENT	CUMULATIVE
50.000	0.00	0.00
45.000	0.00	0.00
40.000	0.00	0.00
35.000	0.00	0.00
30.000	0.00	0.00
25.000	0.00	0.00
20.000	0.00	0.00
15.000	0.00	0.00
10.000	0.00	0.00
7.500	0.00	0.00
5.000	0.00	0.00
2.500	0.00	0.00
1.250	0.00	0.00
0.625	0.00	0.00
0.312	0.00	0.00
0.156	0.00	0.00
0.078	0.00	0.00
0.039	0.00	0.00

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 BARRY SCUD, ONTARIO
 CANADA L1A 2W8
 FAX (705) 378-5123 BUS (705) 378-2416
 DATE *[Signature]*

SAMPLE NO: 11111111111111111111
 SAMPLE NAME: 11111111111111111111
 SUBMITTER: 11111111111111111111
 OPERATOR: 11111111111111111111
 SAMPLE NO: 11111111111111111111
 LIQUID: 11111111111111111111
 ANALYSIS: 11111111111111111111
 RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:06:54 08/22/91
 REPT 12:23:11 08/22/91
 TOT RUN TIME 0:07:37
 SAM DENS: 2.2000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7265 cP

RELATIVE MASS PERCENT FINER VS. DIAMETER
 SIZE POPULATION VS. DIAMETER

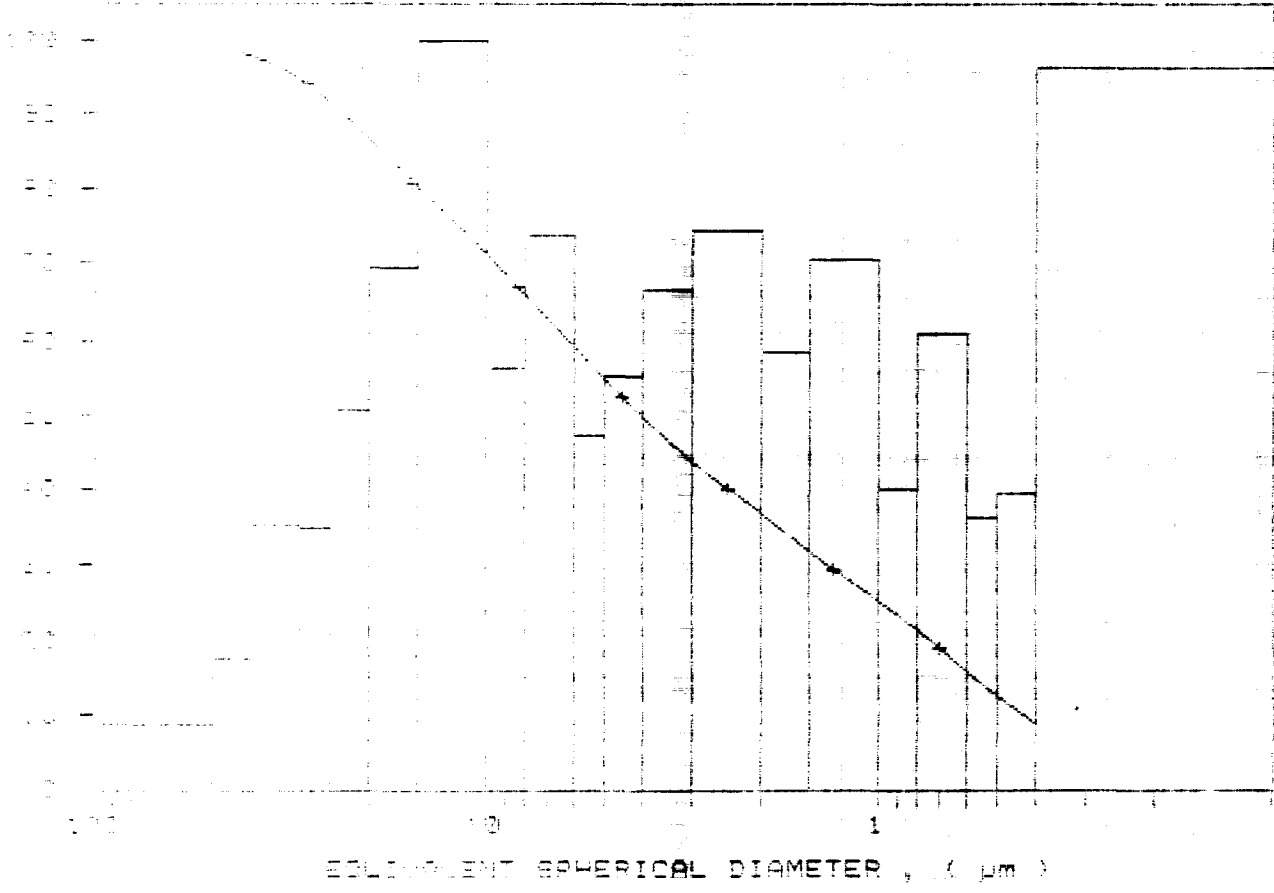


SAMPLE NO: 25-7 # 10409
 SUBMITTER:
 OPERATOR:
 SAMPLE TYPE:
 LIQUID: water
 ANALYSIS TYPE: High Speed

UNIT NUMBER: 1
 START 12:44:31 08/22/91
 REPT 13:00:43 08/22/91
 TOT RUN TIME 0:07:09
 SAM DENS: 2.5000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7265 cp

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

MASS FINER (%)



FILE # 15410

Geotechnical

PAGE 1

SAMPLE # 15410
 SAMPLE # 15410
 SUBMITTER # 15410
 OPERATOR # 15410
 SAMPLE TYPE # 15410
 LIQUID # 15410
 ANALYSIS # 15410
 RUN TYPE: High Speed

UNIT NUMBER: 1
 START 13:52:29 08/22/91
 REPT 14:12:55 08/22/91
 TOT RUN TIME 0:07:29
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

STARTING POINT # 15410
 ENDING POINT # 15410
 REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

GRADE DISTRIBUTION

MEDIA # 15410 MUDAL DIAMETER: 0.40 μm

DIAMETER (μm)	PERCENT	IN. GRADE
50.000	0.00	0.00
40.000	0.00	0.00
30.000	0.00	0.00
25.000	0.00	0.00
20.000	0.00	0.00
15.000	0.00	0.00
10.000	0.00	0.00
7.500	0.00	0.00
5.000	0.00	0.00
3.750	0.00	0.00
2.500	0.00	0.00
1.500	0.00	0.00
1.000	0.00	0.00
0.750	0.00	0.00
0.500	0.00	0.00
0.250	0.00	0.00
0.125	0.00	0.00

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P1A 2W8

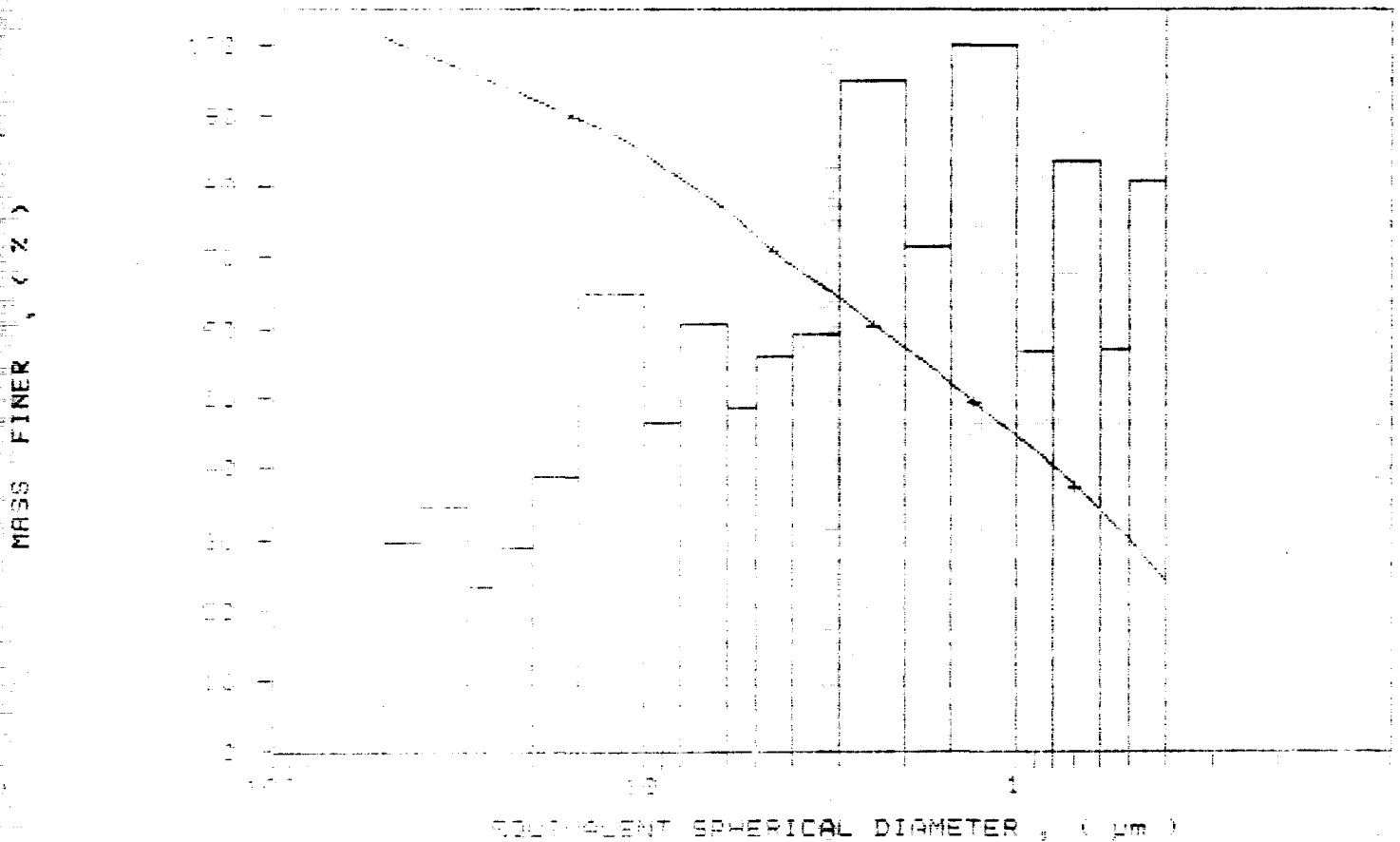
FAX (705) 378-5123 BUS (705) 378-2416

DATE _____

SAMPLE NO: 10410
 SAMPLE WEIGHT: 10.0000 g
 SUBMITTER:
 OPERATOR:
 SAMPLE TYPE:
 LIQUID TYPE:
 ANALYSIS TYPE: High Speed

UNIT NUMBER: 1
 START 13:52:29 08/28/91
 REPT 14:12:55 08/28/91
 TOT RUN TIME 0:07:29
 SAM DENS: 2.5000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

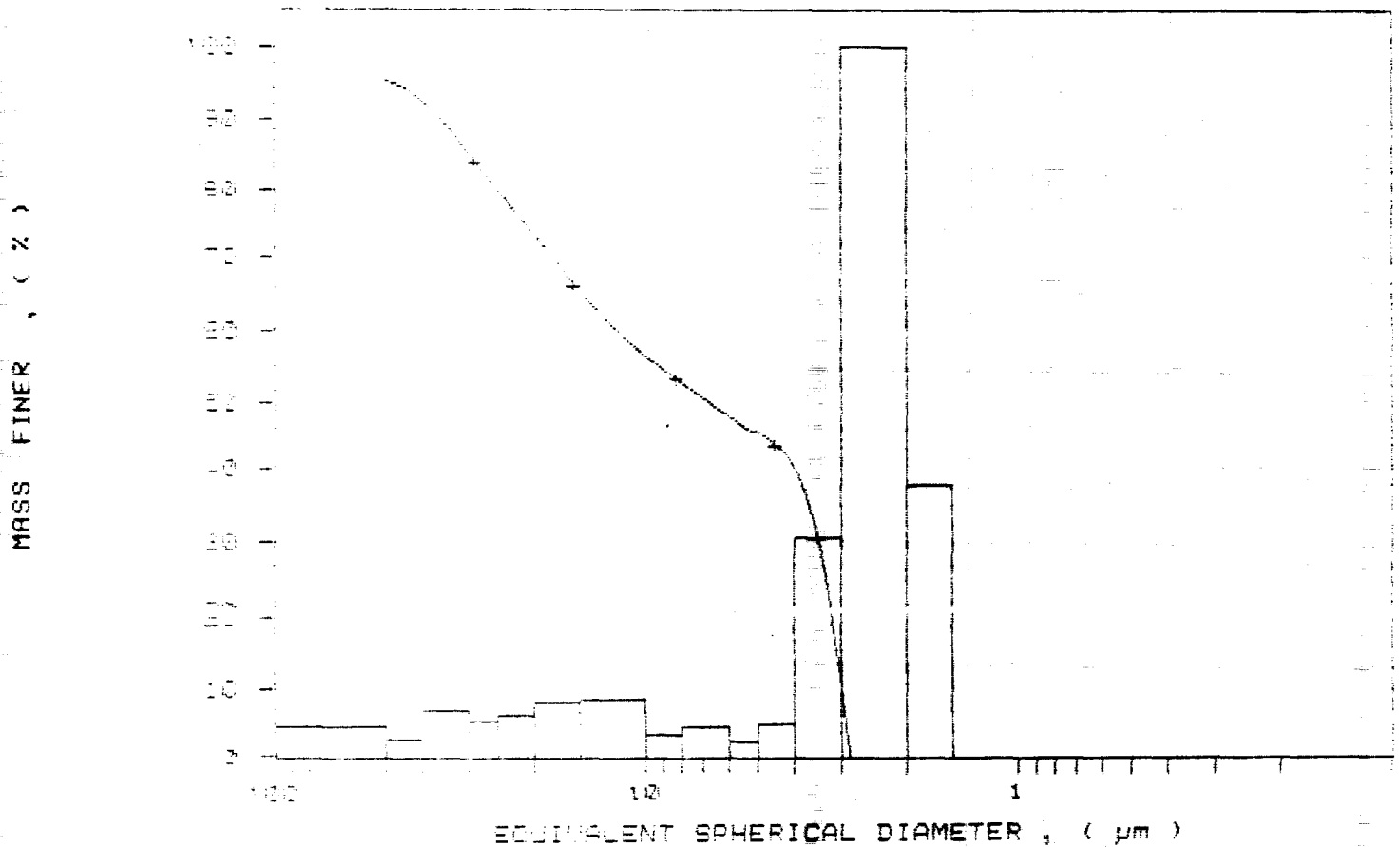
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE ID: 89-7 # 15411
 SAMPLE ID: 89-7 # 15411
 SUBMITTER: # 20
 OPERATOR: AM
 SAMPLE TYPE: 111
 LIQUID TYPE: water
 ANALYSIS: High Speed

UNIT NUMBER: 1
 START 14:33:54 08/22/91
 REPT 14:55:56 08/22/91
 TOT RUN TIME 0:06:58
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

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



Sample # 15412

Sample # 15412

PAGE 1

SAMPLE 10: 10/10/91
 SAMPLE 10: 10/10/91 # 15412
 SUBMITTER: # 10
 OPERATOR: # 10
 SAMPLE TYPE: # 10
 LIQUID TYPE: # 10
 ANALYSIS TYPE: High Speed
 STARTING TIME: # 10
 ENDING TIME: # 10

UNIT NUMBER: 1
 START 15:00:09 08/22/91
 REPT 15:21:22 08/22/91
 TOT RUN TIME 0:07:17
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7262 cP

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIA DIAMETER: # 10
 MODAL DISTRIBUTION

MODAL DIAMETER: 6.18 μ m

DIAMETER (μ m)	PERCENT	CUMULATIVE
50.00	0.00	0.00
40.00	0.00	0.00
30.00	0.00	0.00
25.00	0.00	0.00
20.00	0.00	0.00
15.00	0.00	0.00
10.00	0.00	0.00
8.00	0.00	0.00
6.18	100.00	100.00
5.00	0.00	100.00
4.00	0.00	100.00
3.00	0.00	100.00
2.00	0.00	100.00
1.50	0.00	100.00
1.00	0.00	100.00
0.50	0.00	100.00
0.25	0.00	100.00
0.125	0.00	100.00
0.0625	0.00	100.00

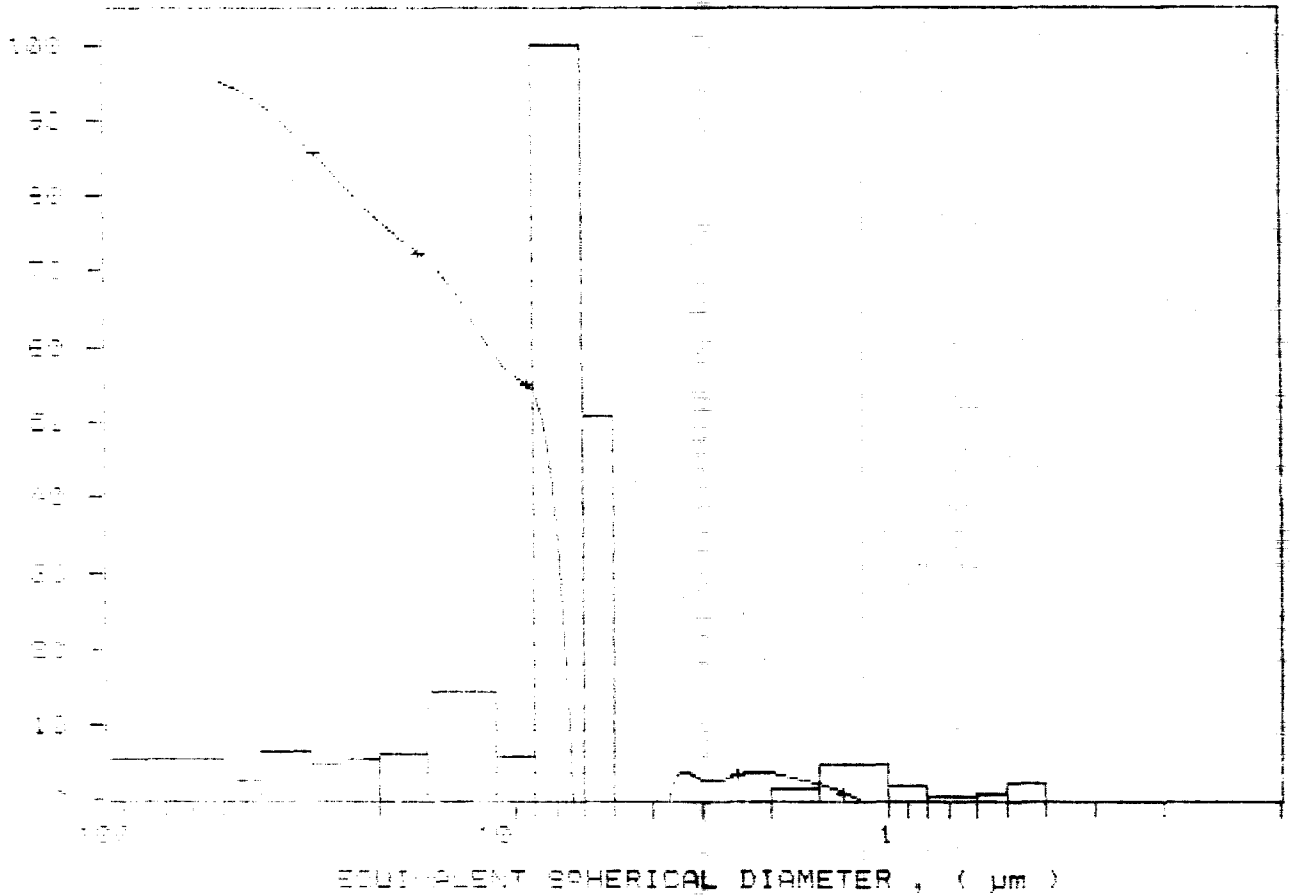
MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5123 BUS (705) 378-2416
 DATE *[Signature]*

SAMPLE IDENTIFICATION NUMBER: 15412
 SAMPLE ID: 15412
 SUBMITTED: 08/22/91
 OPERATOR: SA
 SAMPLE TYPE: LIA
 LIQUID TYPE: water
 ANALYSIS TECH: 147 (eq) DISPERSION TYPE: High Speed

UNIT NUMBER: 1
 START 15:00:00 08/22/91
 REPT 15:21:22 08/22/91
 TOT RUN TIME 0:07:17
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7262 cp

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

MASS FINER, (%)



Sedimentation

Core 55-7 # 15412

PAGE 3

SAMPLE ID: 55-7-15412-1

SUBMITTER: USGS

OPERATOR: WJ

SAMPLE TYPE: SLURRY

LIQUID TYPE: WATER

ANALYSIS TECH: γ -RAY ATTENUATION ANALYSIS (RTA) ANALYSIS TYPE: High Speed

UNIT NUMBER: 1

START 15:00:09 08/22/91

REPT 15:21:22 08/22/91

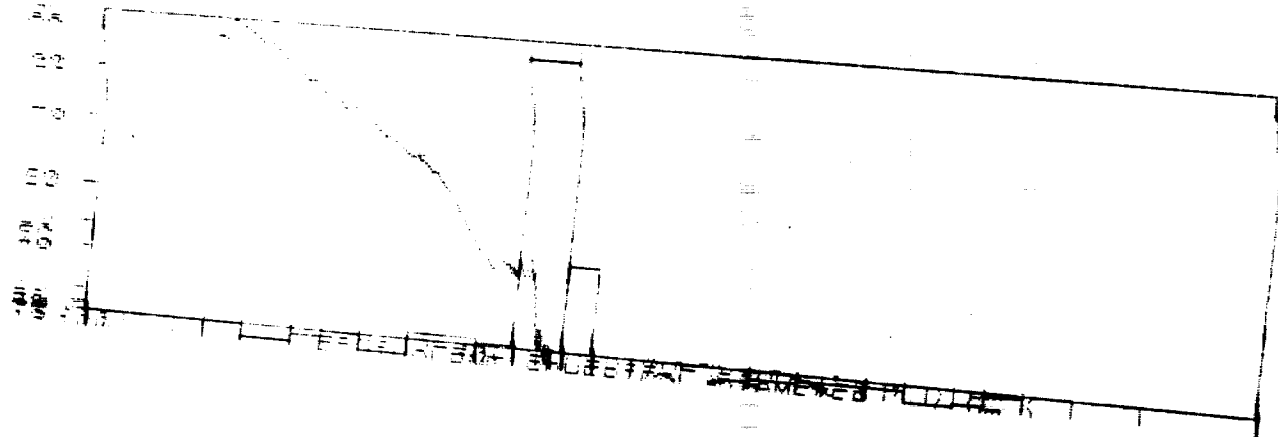
TOT RUN TIME 0:07:17

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7262 cp

MASS POPULATION VS. DIAMETER
RELATIVE MASS PERCENT FINER VS. DIAMETER

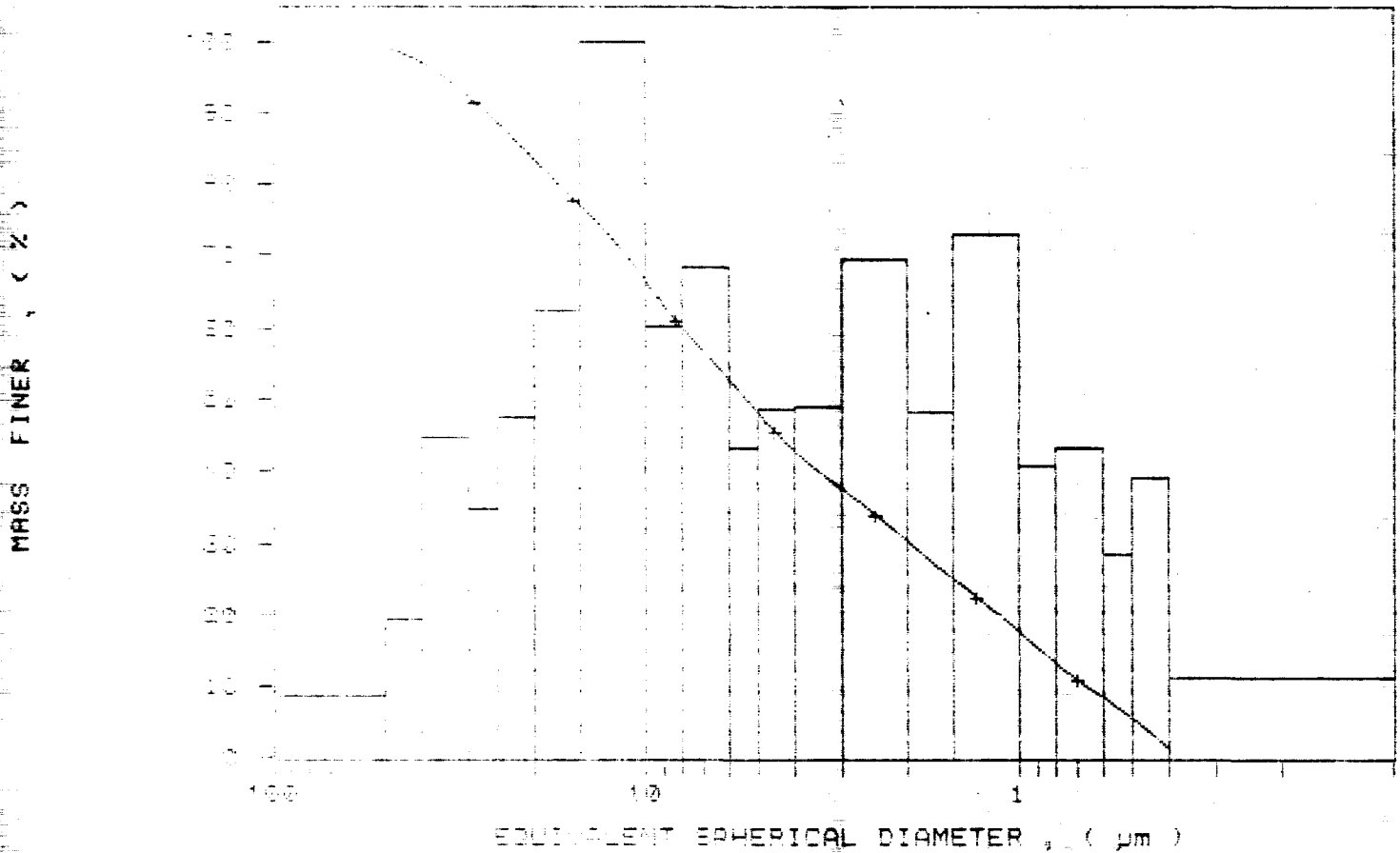


MINERAL ANALYSIS
 CAPS
 LABORATORY
 FEDERAL BUREAU OF INVESTIGATION
 U.S. DEPARTMENT OF JUSTICE
 400 ...
 8/22/91

SAMPLE ID: 1100 1100 1100 1100 1100
 SAMPLE TYPE: 1100 1100 1100 1100 1100
 SUBMITTER: 1100 1100 1100 1100 1100
 OPERATOR: 1100 1100 1100 1100 1100
 SAMPLE TYPE: 1100 1100 1100 1100 1100
 LIQUID TYPE: water
 ANALYSIS: 1100 1100 1100 1100 1100
 ANALYSIS TYPE: High Speed

UNIT NUMBER: 1
 START 15:20:52 08/22/91
 REPT 15:38:37 08/22/91
 TOT RUN TIME 0:07:02
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7262 cc

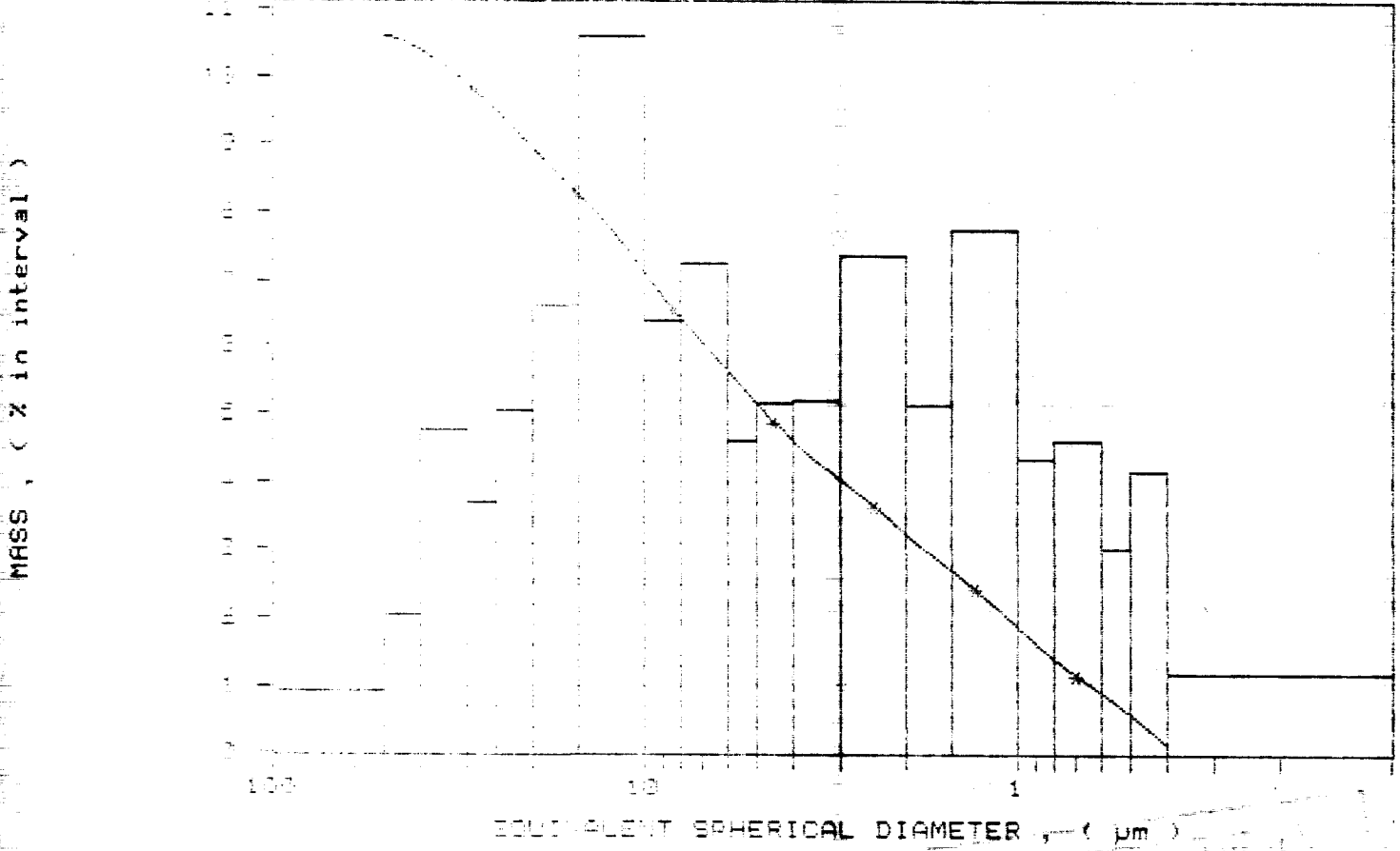
CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE ID: 89-7-15418-1
 SAMPLE ID: 89-7-15418-1
 SUBMITTER: GLE
 OPERATOR: JMM
 SAMPLE TYPE: LIA
 LIQUID TYPE: WATER
 ANALYSIS METHOD: Sedimentation
 ROW TYPE: High Speed

UNIT NUMBER: 1
 START 15:20:52 08/22/91
 REPT 15:38:37 08/22/91
 TOT RUN TIME 0:07:02
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7262 cp

MASS POPULATION VS. DIAMETER
 RELATIVE MASS PERCENT FINER VS. DIAMETER



Sedimentation

SAMPLE DIRECTION: 0000 0000 0000
 SAMPLE ID: 0000 0000 0000
 SUBMITTER: 0000
 OPERATION: 0000
 SAMPLE TYPE: 0000
 LIQUID TYPE: water
 ANALYSIS UNIT: 0000 0000 0000 0000 0000 0000
 RUN TYPE: High Speed

UNIT NUMBER: 1
 START 15:40:30 08/22/91
 REPT 15:52:20 08/22/91
 TOT RUN TIME 0:07:16
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7260 cp

STARTING TEMPERATURE: 00.00 °C
 ENDING TEMPERATURE: 00.00 °C

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

GRADE DISTRIBUTION

MEDIA RANGE: 0.000 - 100.000 µm MODAL DIAMETER: 4.40 µm

DIAMETER (µm)	PERCENTIVE	MASS
		INTERVAL
		(%)
50.000	100.00	100.00
40.000	100.00	100.00
30.000	100.00	100.00
25.000	100.00	100.00
20.000	100.00	100.00
15.000	100.00	100.00
10.000	100.00	100.00
8.000	100.00	100.00
6.000	100.00	100.00
5.000	100.00	100.00
4.000	100.00	100.00
3.000	100.00	100.00
2.000	100.00	100.00
1.000	100.00	100.00
0.750	100.00	100.00
0.500	100.00	100.00
0.250	100.00	100.00
0.125	100.00	100.00

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5123 BUS (705) 378-2416
 DATE *[Signature]*

File 29-7 # 15414

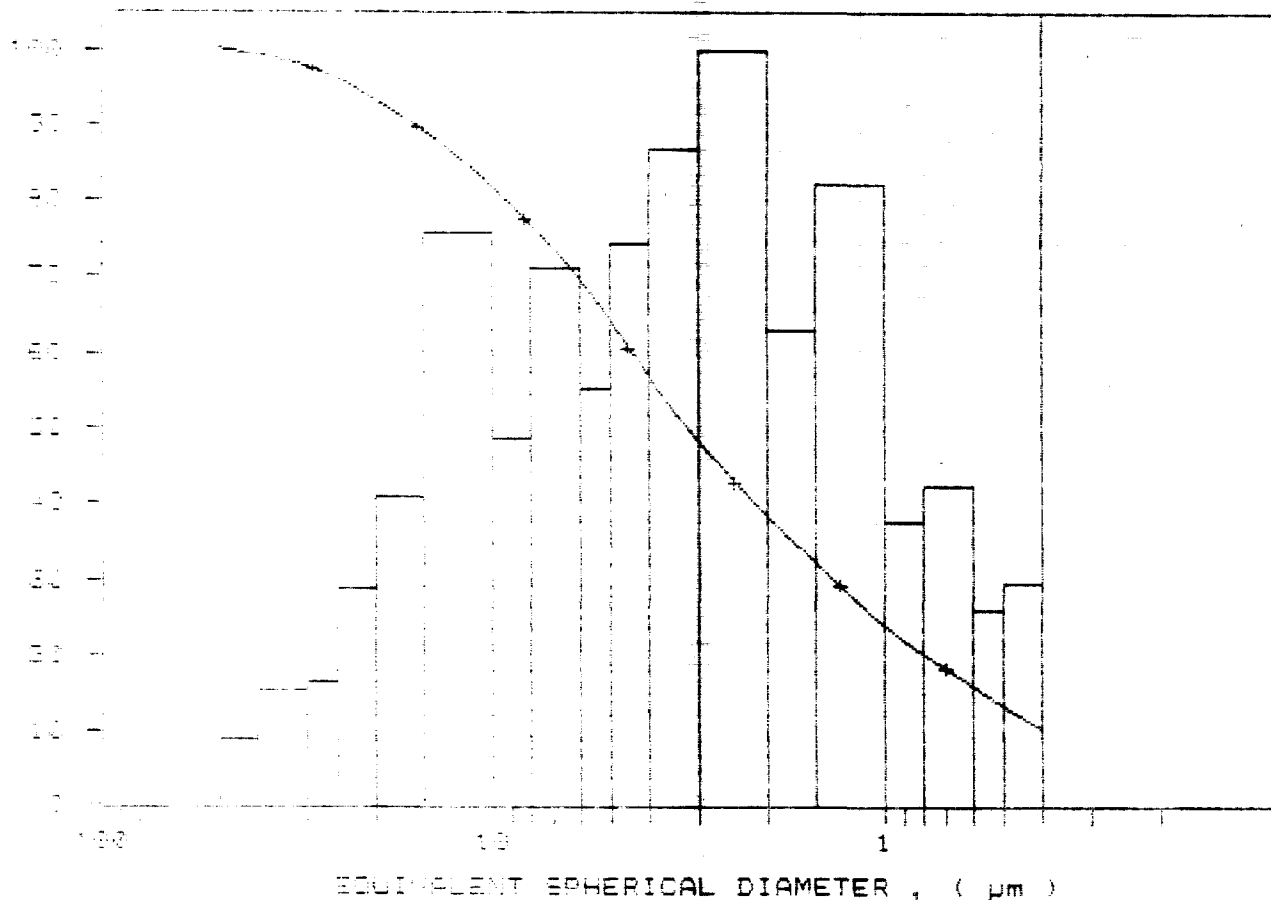
Sedimentation

PAGE 3

SAMPLE 15414
SUBMITTER 4
OPERATOR
SAMPLE 15414
LIQUID TYPE
ANALYSIS 15414

UNIT NUMBER: 1
START 15:40:30 08/22/91
REPT 15:52:20 08/22/91
TOT RUN TIME 0:07:16
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7260 cp

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



SOLE 35-7 # 15415

3501000000000000

PAGE 1

SAMPLE LINE: 101
 SAMPLE ID: 101
 SUBMITTER: # 15
 OPERATOR: KN
 SAMPLE TYPE: LIQ
 LIQUID: YIELD
 ANALYSIS TEMP: 100 deg C
 ANAL. TYPE: High Speed

UNIT NUMBER: 1
 START 16:01:08 08/22/91
 REPT 16:12:40 08/22/91
 TOT RUN TIME 0:06:59
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7261 cp

STARTING DIAMETER: 2.22 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.81
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.22 um

MODAL DIAMETER: 2.22 um

DIAMETER (um)	PERCENTAGE (%)	MASS INTERVAL (%)
50.00	0.00	2.1
40.00	0.00	0.0
30.00	0.00	0.0
25.00	0.00	1.3
20.00	0.00	0.0
15.00	0.00	0.0
10.00	0.00	0.0
5.00	0.00	0.0
2.50	0.00	0.0
1.50	0.00	0.0
1.00	0.00	0.0
0.50	0.00	0.0
0.40	0.00	0.0

MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. R22
 FERRY SOUND, ONTARIO
 CANADA M2A 2W8

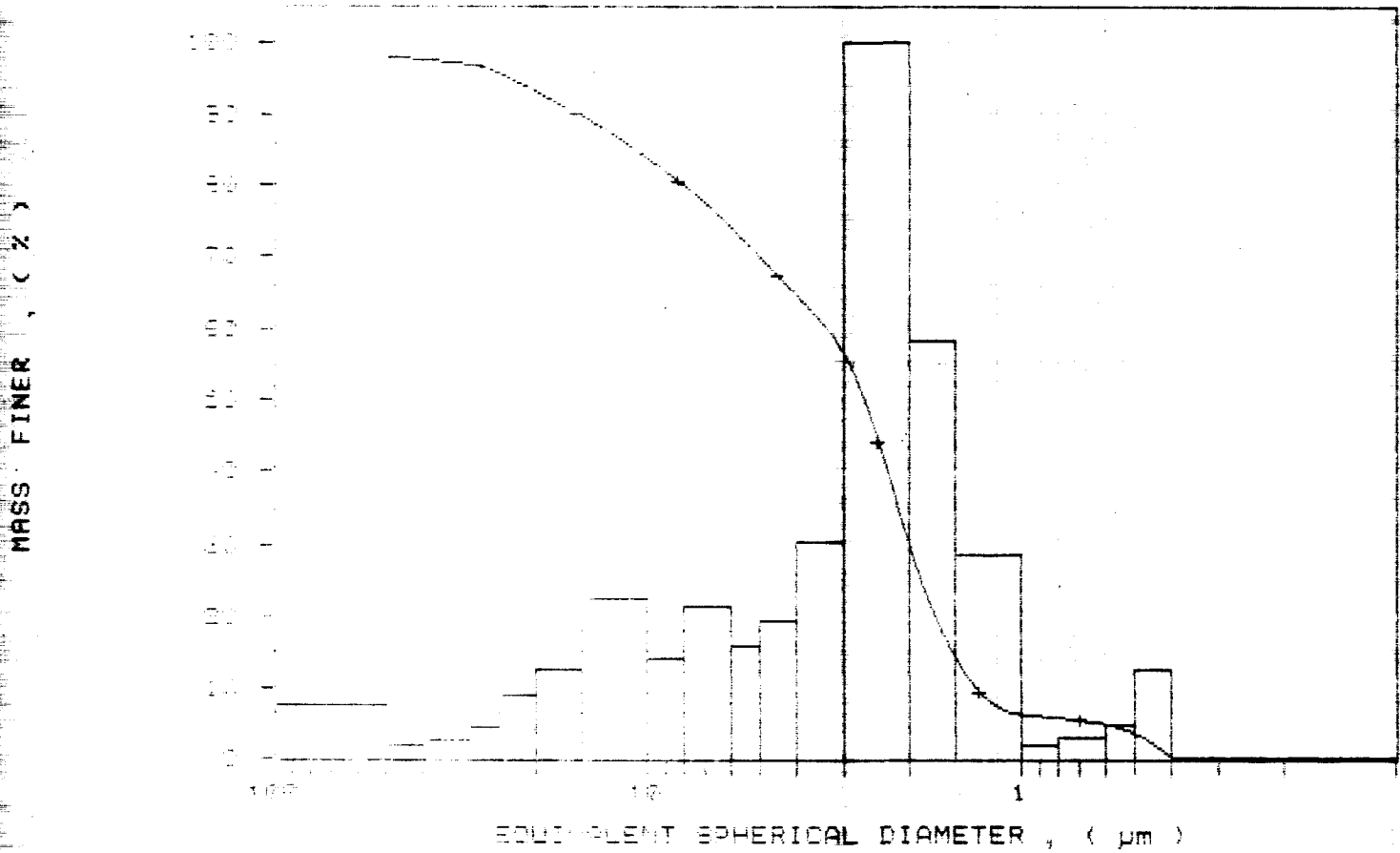
FAX (705) 378-5123
 BUS (705) 378-2416

DATE *AM*

SAMPLE NO: 101a 88-7 # 15415
 SAMPLE ID: 101a 88-7 # 15415
 SUBMITTER: 101a 88-7 # 15415
 OPERATOR: 101a 88-7 # 15415
 SAMPLE NAME: 101a 88-7 # 15415
 LIQUID NAME: 101a 88-7 # 15415
 ANALYSIS METHOD: 101a 88-7 # 15415
 ANALYSIS TYPE: High Speed

UNIT NUMBER: 1
 START 16:01:08 08/22/91
 REPT 16:12:40 08/22/91
 TOT RUN TIME 0:06:59
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7261 cp

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

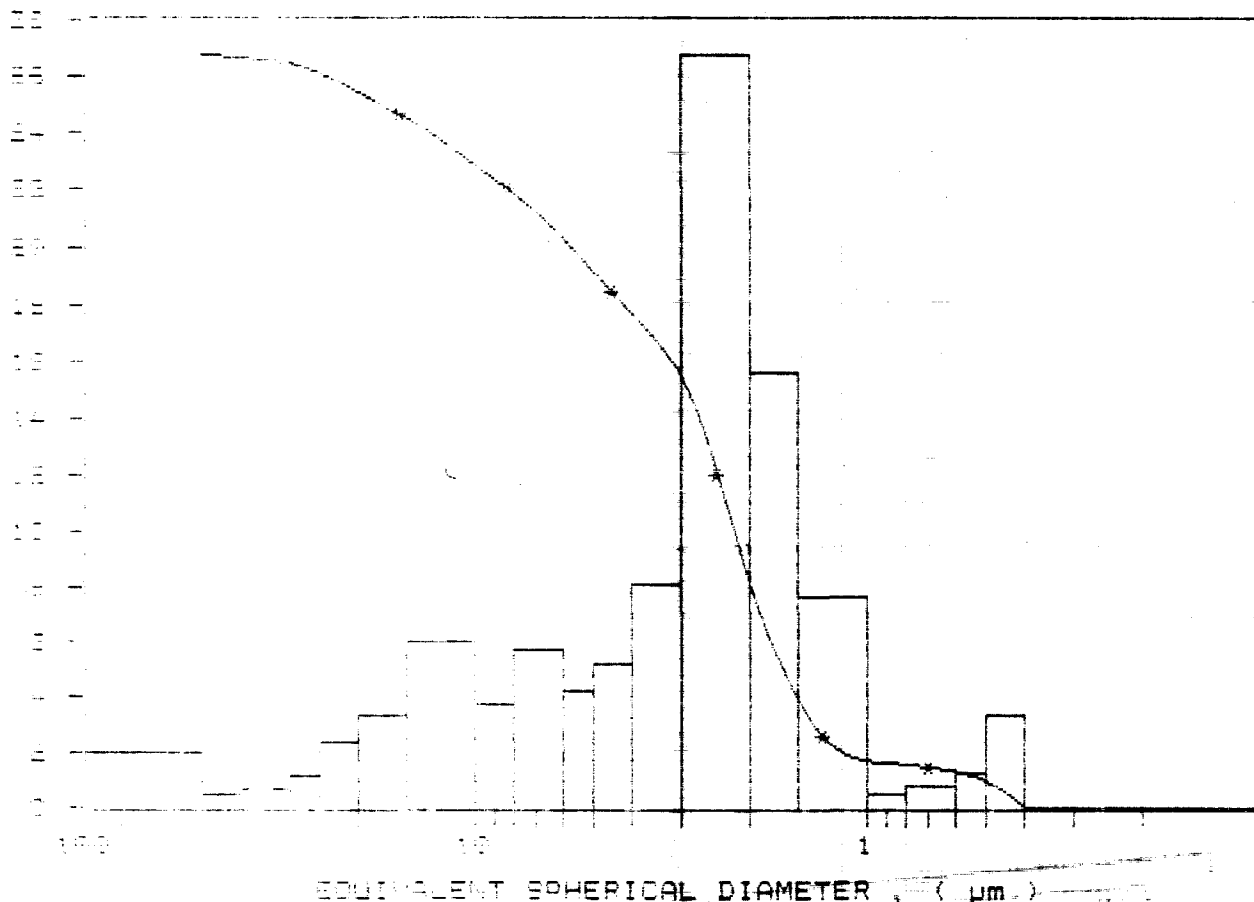


SAMPLE NO: 15415
 SAMPLE ID: Note 65-7 # 15415
 SUBMITTER: # 29
 OPERATOR: AM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.12 deg C
 TEST TYPE: High Speed

UNIT NUMBER: 1
 START 16:01:08 08/22/91
 REPT 16:12:40 08/22/91
 TOT RUN TIME 0:06:59
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7261 cp

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

MASS, (% in interval)



LABORATORY REPORT
 DATE: 08/22/91
 TIME: 16:12:40
 OPERATOR: AM
 UNIT NUMBER: 1
 SAMPLE NO: 15415
 SUBMITTER: # 29
 ANALYSIS TEMP: 24.12 deg C
 TEST TYPE: High Speed

SAMPLE DIRECTORY/NUMBER: DATA5 /334
 SAMPLE ID: Hole 89-7 # 15416
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 08:35:45 08/26/91
 REPRT 08:43:32 08/26/91
 TOT RUN TIME 0:07:27
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7273 cp

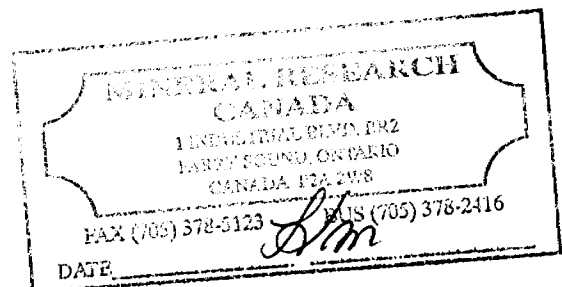
STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

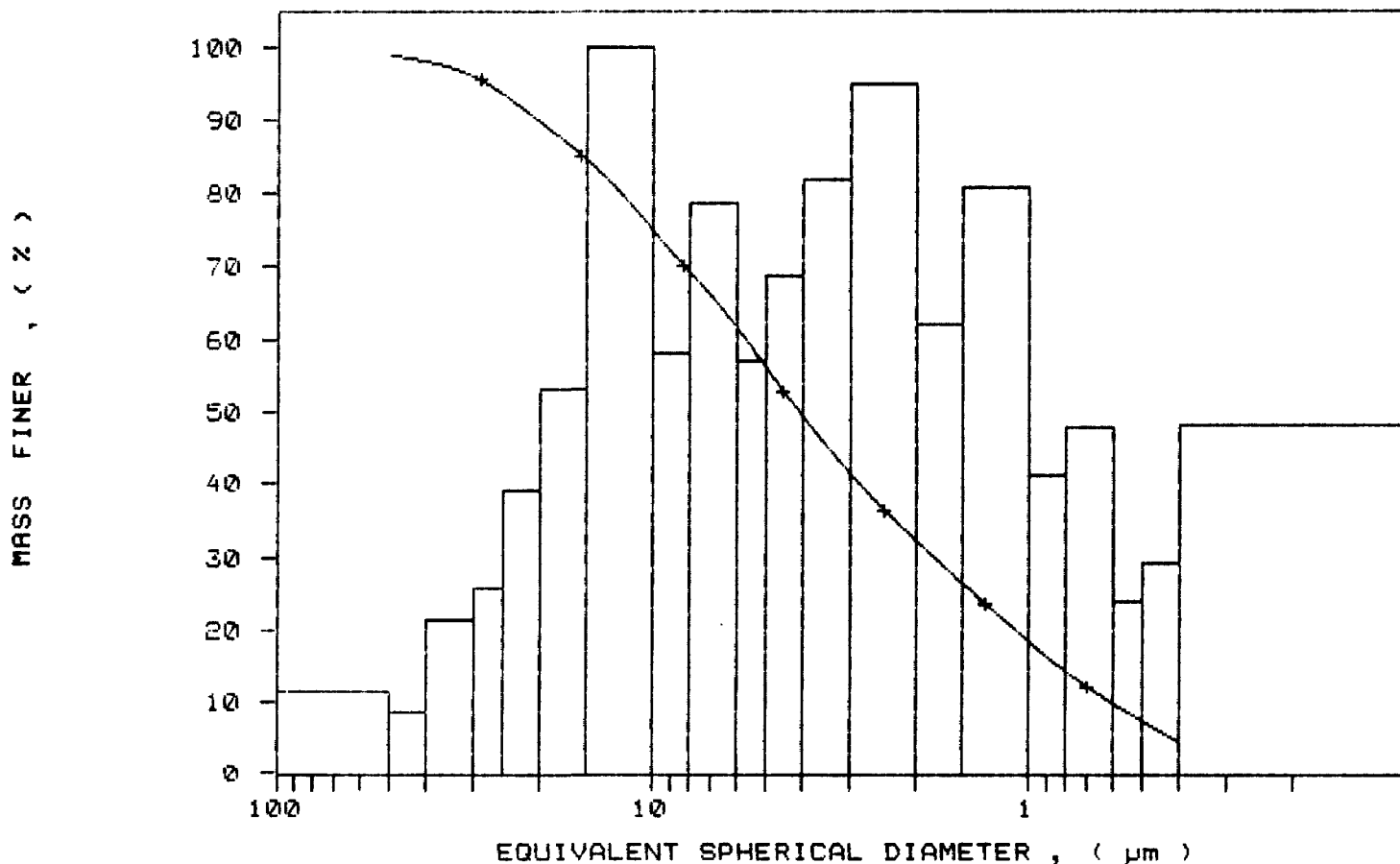
MEDIAN DIAMETER: 4.09 µm MODAL DIAMETER: 5.05 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.9	1.1
40.00	96.0	0.9
30.00	95.9	2.1
25.00	93.4	2.5
20.00	89.6	3.8
15.00	84.4	5.2
10.00	74.8	9.7
8.00	69.1	5.6
6.00	61.5	7.6
5.00	56.0	5.5
4.00	49.3	6.7
3.00	41.4	7.9
2.00	32.3	9.2
1.50	26.3	6.0
1.00	18.4	7.8
0.80	14.4	4.0
0.60	9.8	4.6
0.50	7.5	2.3
0.40	4.7	2.8



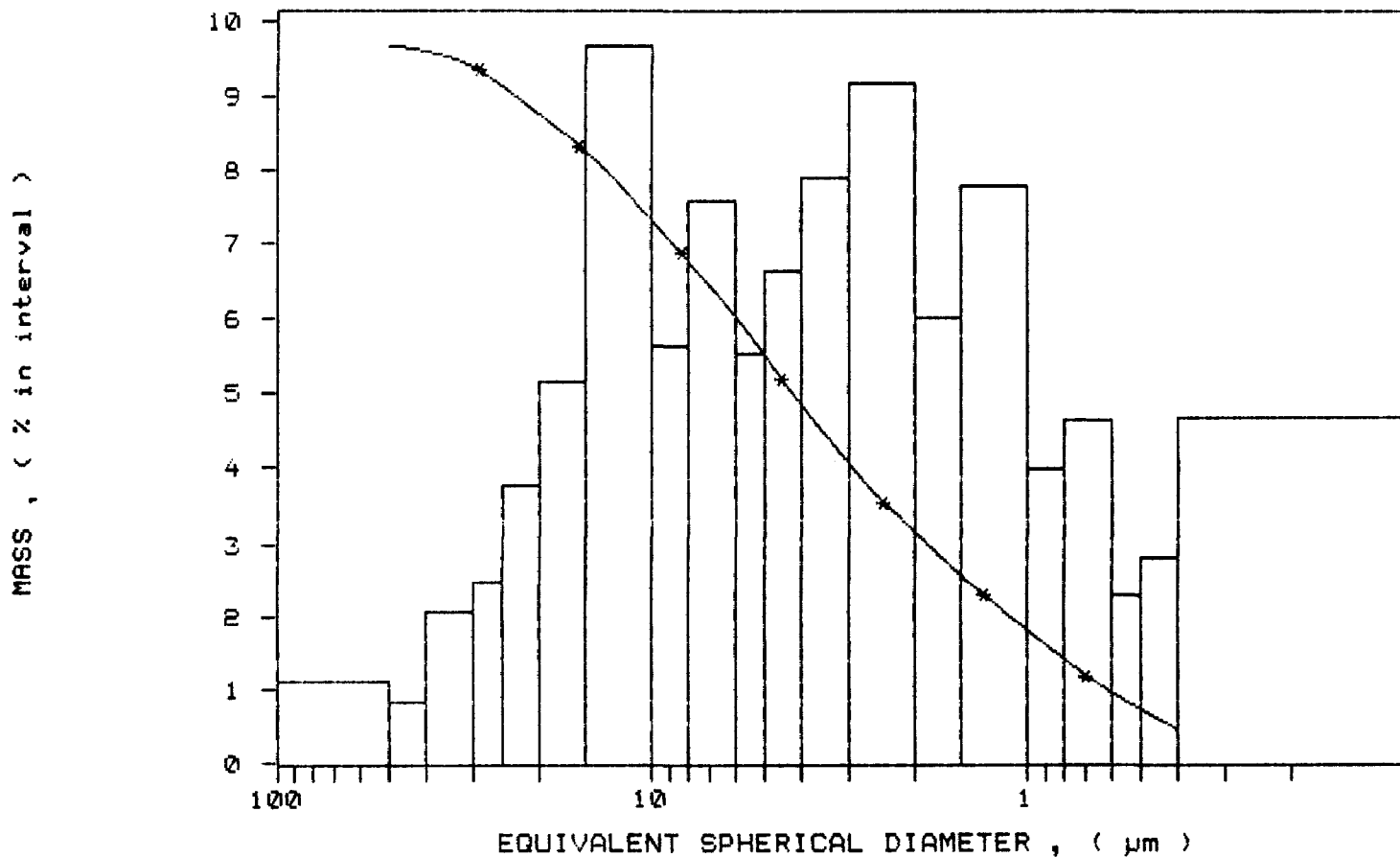
SAMPLE DIRECTORY/NUMBER: DATA5 /334	UNIT NUMBER: 1
SAMPLE ID: Hole 89-7 # 15416	START 08:35:45 08/26/91
SUBMITTER: # 39	REPRT 08:43:32 08/26/91
OPERATOR: KM	TOT RUN TIME 0:07:27
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	LIQ VISC: 0.7273 cp
RUN TYPE: High Speed	

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



SAMPLE DIRECTORY/NUMBER: DATA5 /334	UNIT NUMBER: 1
SAMPLE ID: Hole 89-7 # 15416	START 08:35:45 08/26/91
SUBMITTER: # 39	REPRT 08:43:32 08/26/91
OPERATOR: KM	TOT RUN TIME 0:07:27
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	LIQ VISC: 0.7273 cp
RUN TYPE: High Speed	

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



Hole 89-7 # 15417

PAGE 1

SediGraph 5100 V2.03

SAMPLE DIRECTORY/NUMBER: DATA5 /395

SAMPLE ID: Hole 89-7 # 15417

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1

START 08:54:19 08/26/91

REPRT 09:15:08 08/26/91

TOT RUN TIME 0:07:20

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7273 cp

REYNOLDS NUMBER: 0.21

FULL SCALE MASS %: 100

STARTING DIAMETER: 50.00 µm

ENDING DIAMETER: 0.40 µm

MASS DISTRIBUTION

MODAL DIAMETER: 4.74 µm

MEDIAN DIAMETER: 28.32 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	73.1	26.9
40.00	66.3	6.8
30.00	52.7	13.6
25.00	44.6	8.1
20.00	37.2	7.4
15.00	30.5	6.7
10.00	21.2	9.3
8.00	7.6	13.5
6.00	-25.4	33.1
5.00	-75.3	49.9
4.00	-153.5	73.2
3.00	-170.2	16.7
2.00	-132.0	-38.2
1.50	-105.0	-27.0
1.00	-71.4	-33.7
0.80	-55.4	-15.9
0.60	-38.8	-16.6
0.50	-31.0	-7.8
0.40	-32.0	1.1

**MINERAL RESEARCH
CANADA**

1 INDUSTRIAL BLVD. RR2
FARRY SOUND, ONTARIO
CANADA P2A 2W8

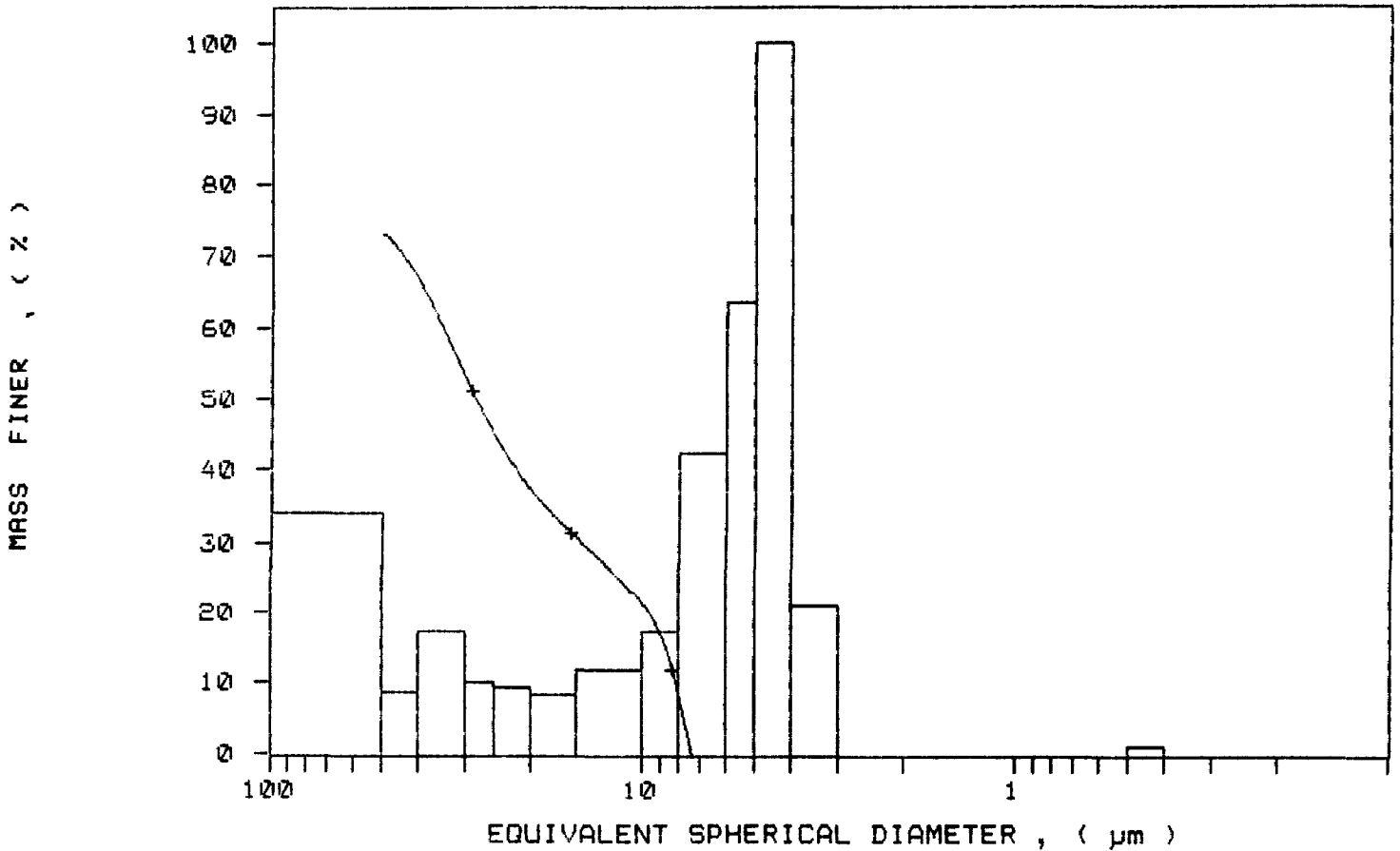
FAX (705) 378-5123 BUS (705) 378-2416

DATE *SLM*

SAMPLE DIRECTORY/NUMBER: DATA5 /335
SAMPLE ID: Hole 89-7 # 15417
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

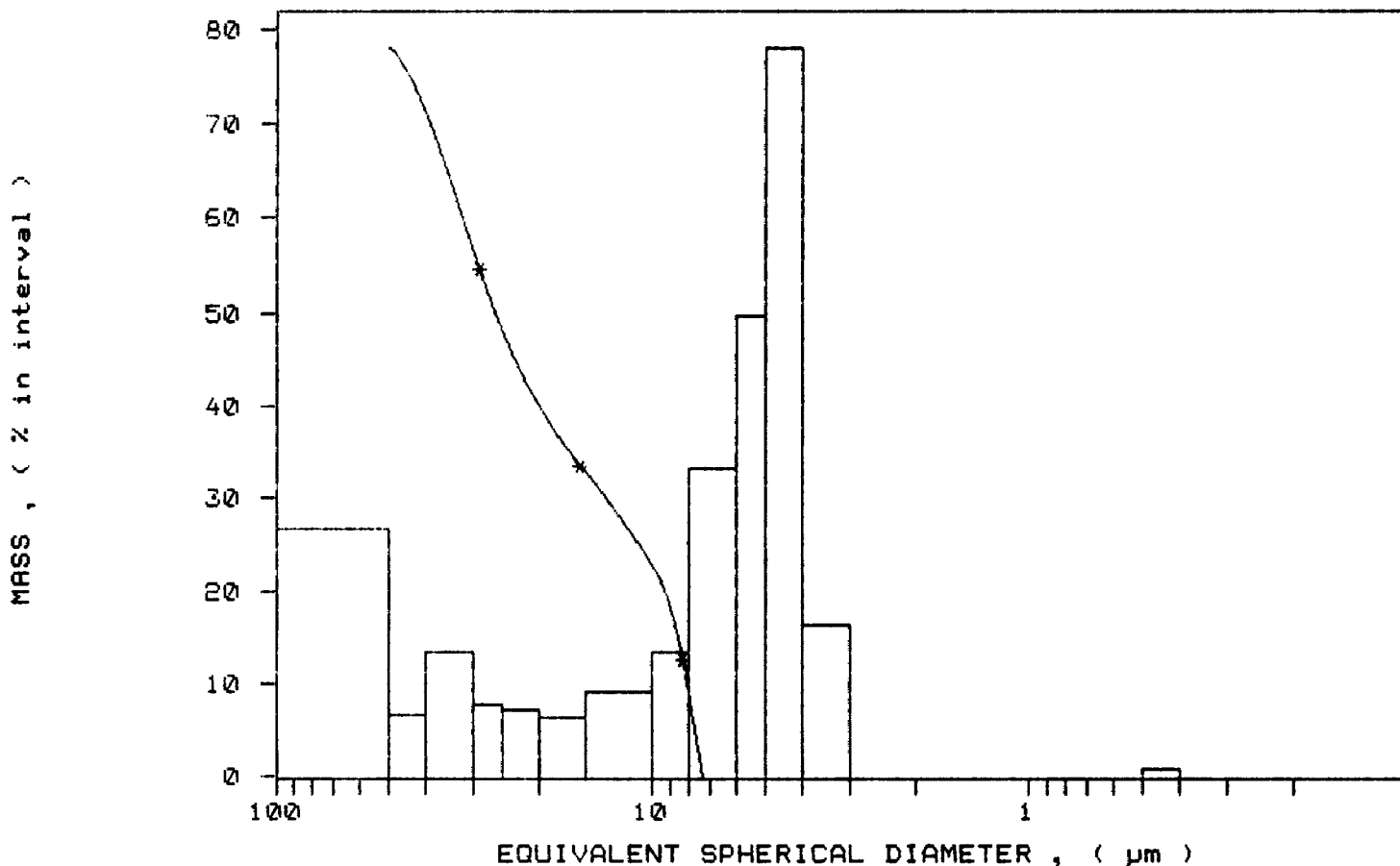
UNIT NUMBER: 1
START 08:54:19 08/26/91
REPRT 09:15:08 08/26/91
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7273 cp

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



SAMPLE DIRECTORY/NUMBER: DATAS /335	UNIT NUMBER: 1
SAMPLE ID: Hole 89-7 # 15417	START 08:54:19 08/26/91
SUBMITTER: # 39	REPRT 09:15:08 08/26/91
OPERATOR: KM	TOT RUN TIME 0:07:20
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	RUN TYPE: High Speed
	LIQ VISC: 0.7273 cp

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



SAMPLE DIRECTORY/NUMBER: DATAS /336
 SAMPLE ID: Hole 89-7 # 15418
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 09:12:38 08/26/91
 REPRT 09:20:23 08/26/91
 TOT RUN TIME 0:07:24
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7273 cp

STARTING DIAMETER: 50.00 µm REYNOLDS NUMBER: 0.21
 ENDING DIAMETER: 0.40 µm FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 6.40 µm MODAL DIAMETER: 2.89 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.1	0.9
40.00	98.6	0.5
30.00	94.9	3.7
25.00	92.3	2.6
20.00	87.7	4.6
15.00	78.7	9.0
10.00	64.5	14.3
8.00	56.8	7.7
6.00	48.1	8.6
5.00	43.3	4.8
4.00	37.0	6.3
3.00	18.0	19.0
2.00	-8.4	26.3
1.50	-11.7	3.3
1.00	-8.5	-3.2
0.80	-7.0	-1.5
0.60	-6.1	-0.9
0.50	-5.8	-0.3
0.40	-6.8	1.0

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL EBD, RR2
 BASSETT SOUND, ONTARIO
 CANADA L2A 2V8

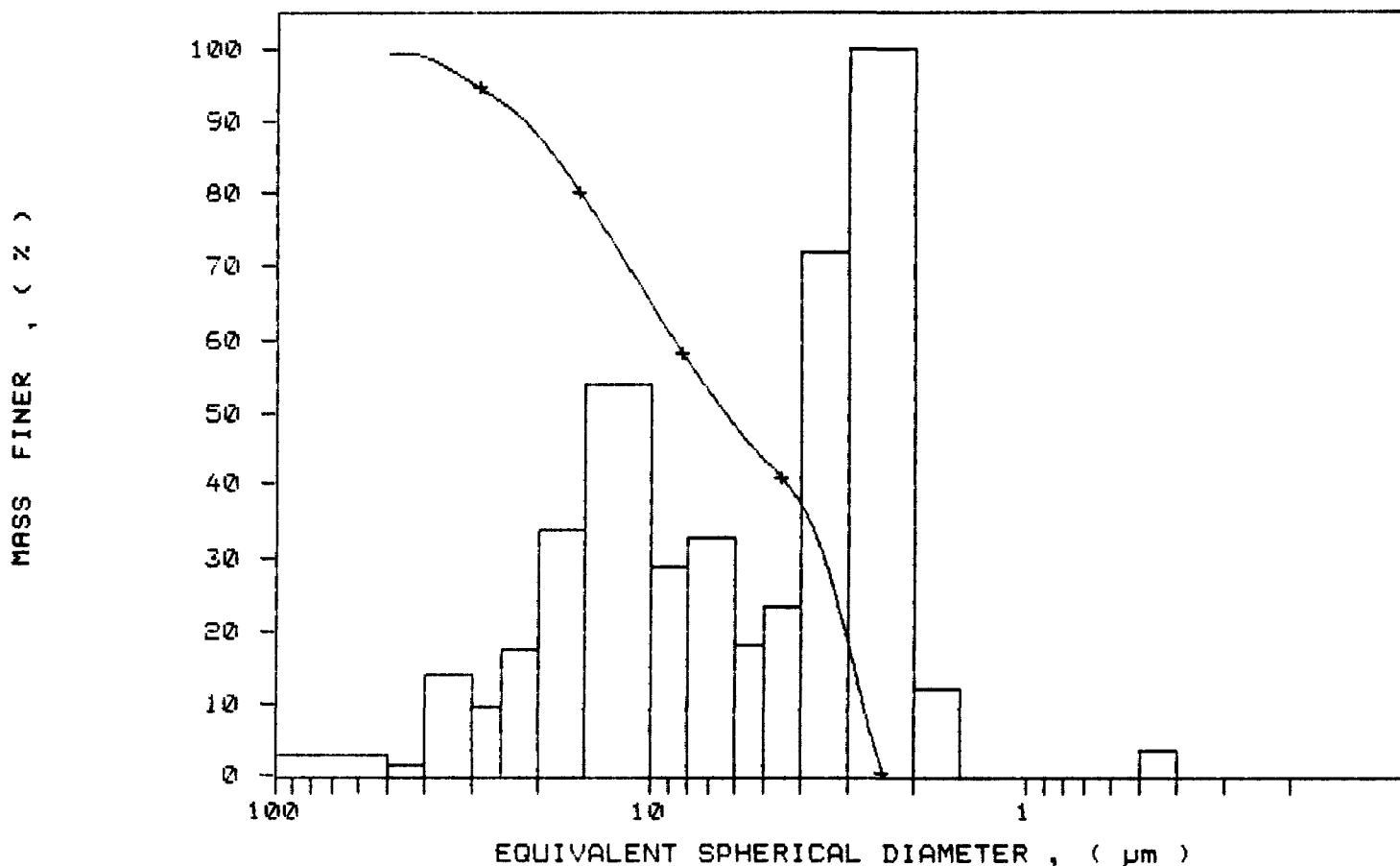
FAX (705) 378-5124 BUS (705) 378-2416

DATE *LM*

SAMPLE DIRECTORY/NUMBER: DATA5 /336
SAMPLE ID: Hole 89-7 # 15418
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 09:12:38 08/26/91
REPR 09:20:23 08/26/91
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7273 cp

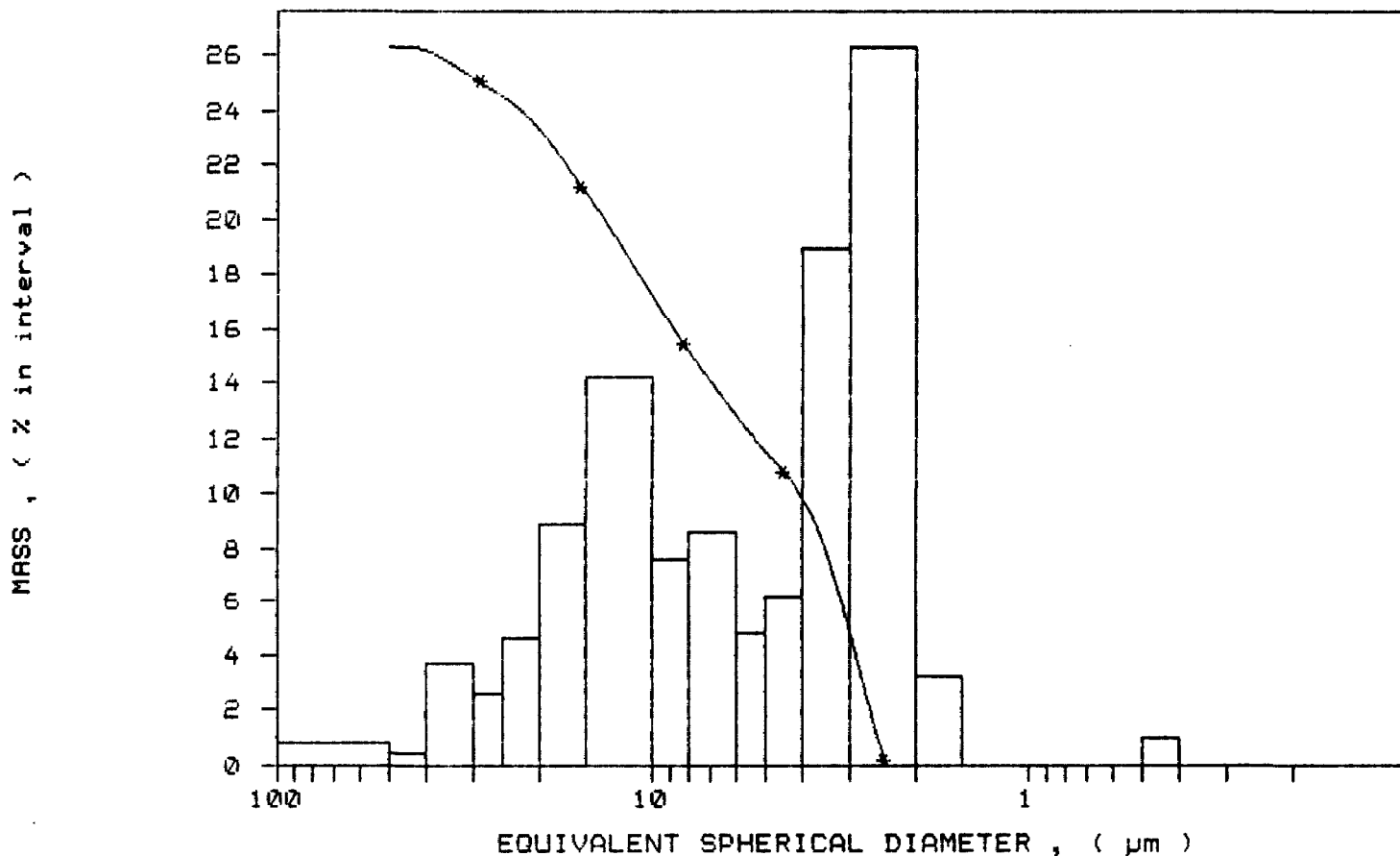
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAS /336
 SAMPLE ID: Hole 89-7 # 15418
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 09:12:38 08/26/91
 REPRT 09:20:23 08/26/91
 TOT RUN TIME 0:07:24
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7273 cp

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



SAMPLE DIRECTORY/NUMBER: DATAS /337
 SAMPLE ID: Hole 89-7 # 15419
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 09:31:02 08/26/91
 REPT 09:52:05 08/26/91
 TOT RUN TIME 0:07:27
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

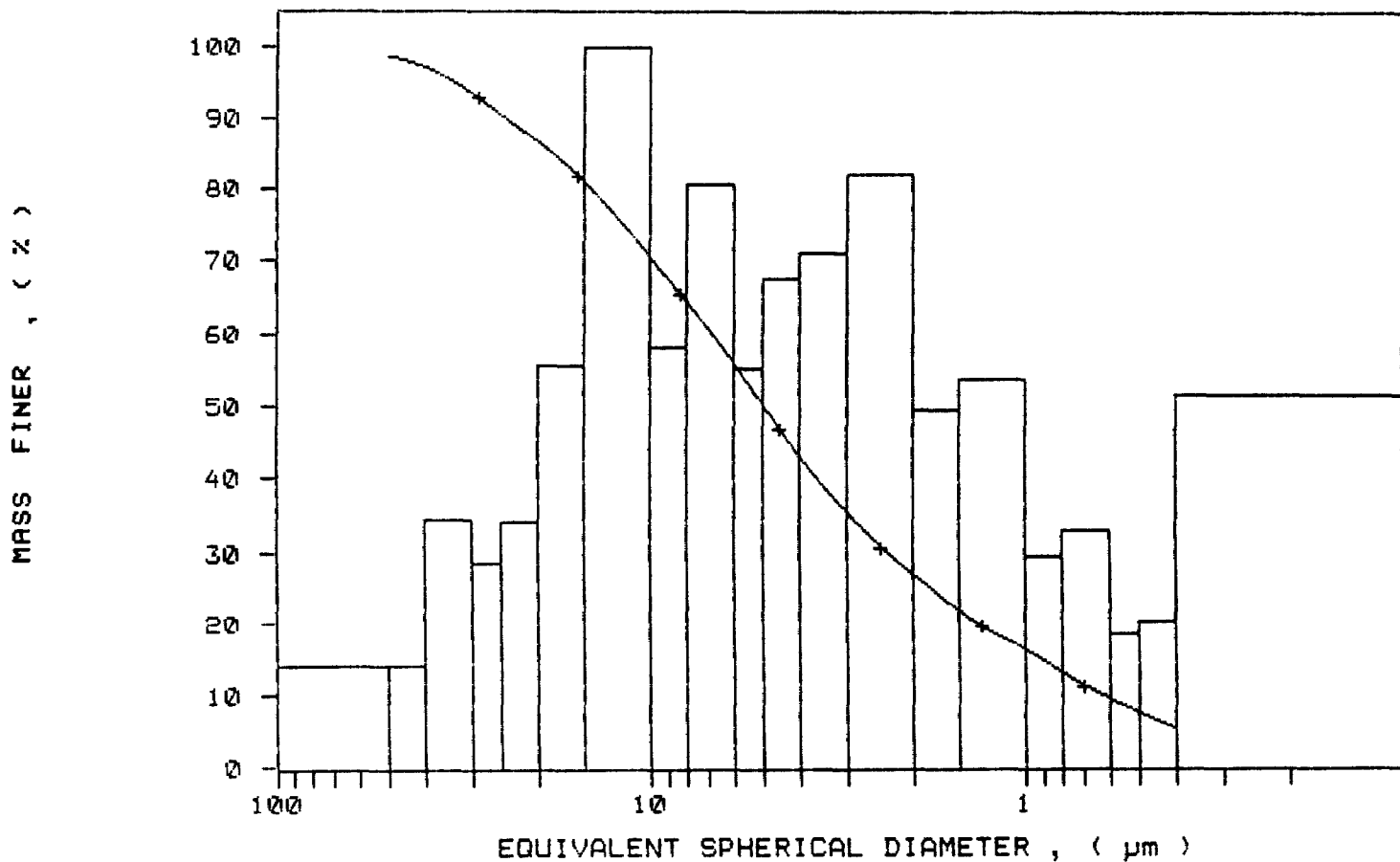
MEDIAN DIAMETER: 4.98 µm MODAL DIAMETER: 4.84 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.5	1.5
40.00	97.0	1.5
30.00	93.4	3.6
25.00	90.4	3.0
20.00	86.8	3.6
15.00	81.0	5.8
10.00	70.5	10.5
8.00	64.4	6.1
6.00	56.0	8.5
5.00	50.2	5.8
4.00	43.1	7.1
3.00	35.6	7.5
2.00	27.0	8.6
1.50	21.8	5.2
1.00	16.1	5.7
0.80	13.0	3.1
0.60	9.6	3.5
0.50	7.6	2.0
0.40	5.4	2.2

MINERAL RESEARCH
 CANADA
 1 INDUSTRIAL RD BR2
 BARRY BOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5123
 (705) 378-2416
 DATE *Jim*

SAMPLE DIRECTORY/NUMBER: DATAS /337	UNIT NUMBER: 1
SAMPLE ID: Hole 89-7 # 15419	START 09:31:02 08/26/91
SUBMITTER: # 39	REPRT 09:52:05 08/26/91
OPERATOR: KM	TOT RUN TIME 0:07:27
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	LIQ VISC: 0.7271 cp
RUN TYPE: High Speed	

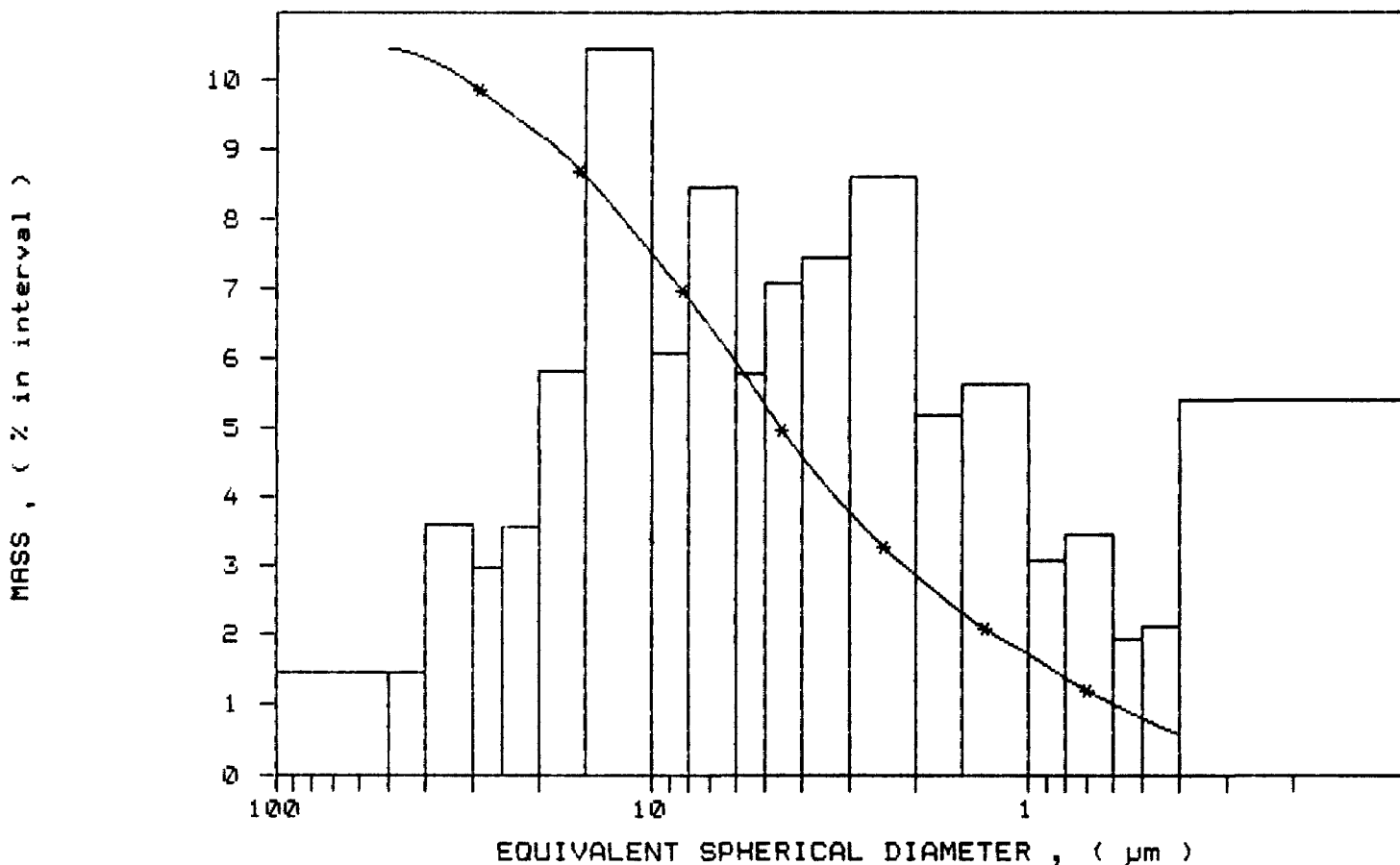
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAS /937
 SAMPLE ID: Hole 89-7 # 15419
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 09:31:02 08/26/91
 REPT 09:52:05 08/26/91
 TOT RUN TIME 0:07:27
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /338
 SAMPLE ID: Hole 89-7 # 15420
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 09:49:39 08/26/91
 REPRT 09:57:26 08/26/91
 TOT RUN TIME 0:07:26
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

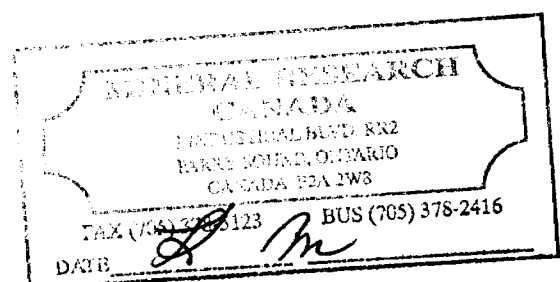
STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 11.34 µm MODAL DIAMETER: 13.22 µm

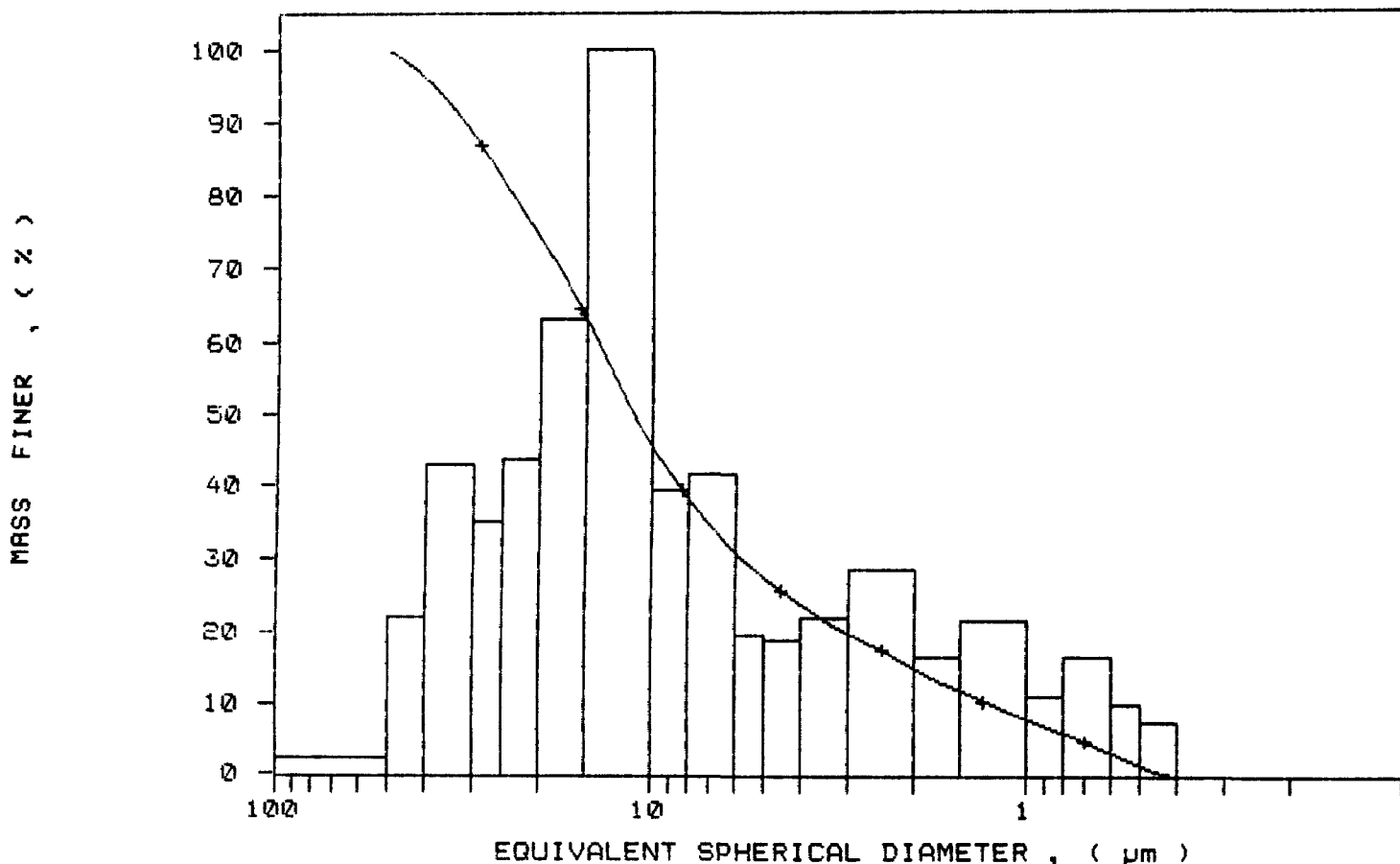
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.6	0.4
40.00	95.6	3.9
30.00	88.0	7.7
25.00	81.7	6.2
20.00	74.0	7.7
15.00	62.8	11.2
10.00	45.1	17.7
8.00	38.1	7.0
6.00	30.7	7.4
5.00	27.2	3.5
4.00	23.8	3.4
3.00	19.9	4.0
2.00	14.8	5.0
1.50	11.9	2.9
1.00	8.0	3.9
0.80	6.0	2.0
0.60	3.1	2.9
0.50	1.3	1.8
0.40	-0.1	1.4



SAMPLE DIRECTORY/NUMBER: DATAS /338
SAMPLE ID: Hole 89-7 # 15420
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 09:49:39 08/26/91
REPT 09:57:26 08/26/91
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7271 cp

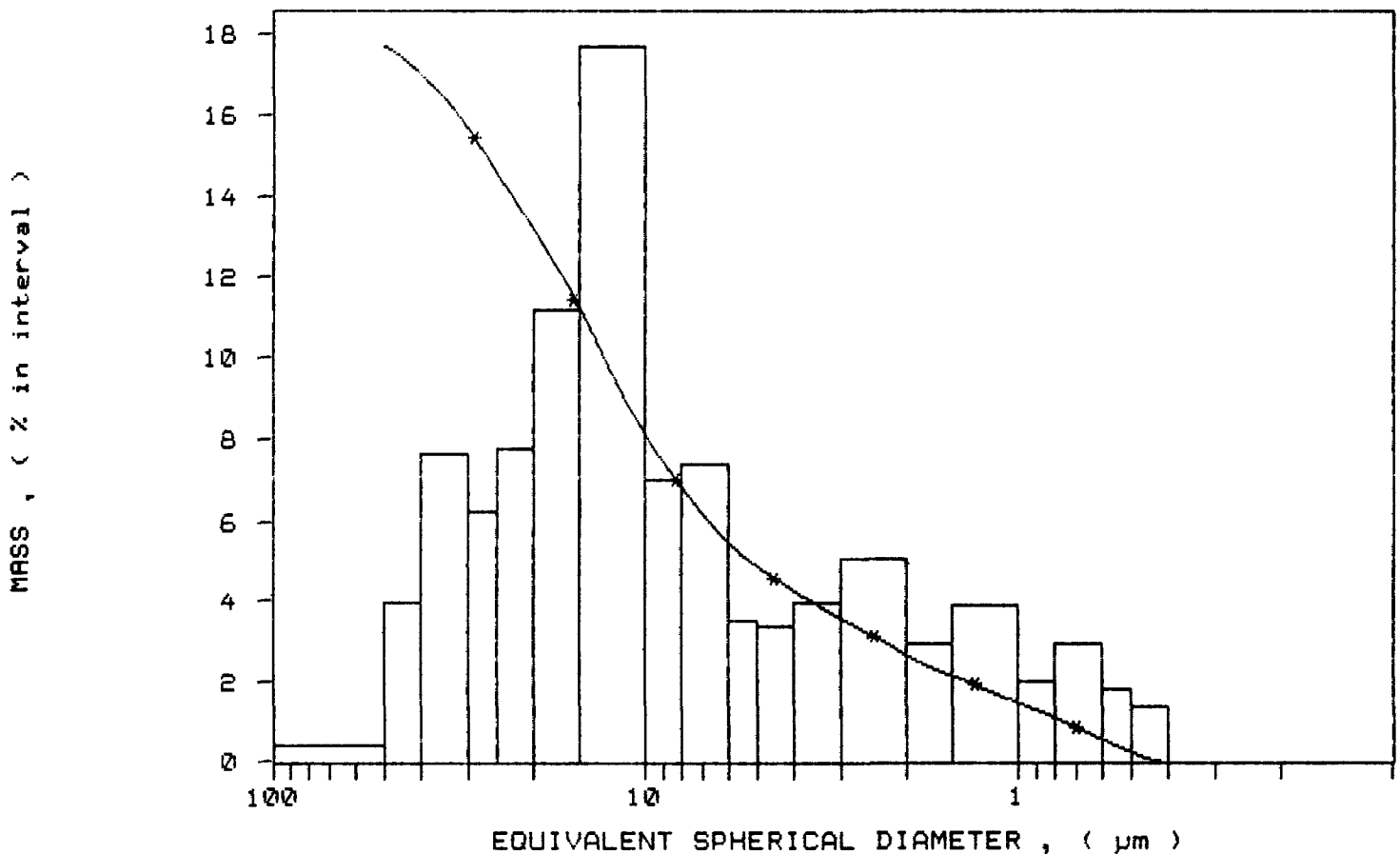
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /338
 SAMPLE ID: Hole 89-7 # 15420
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 09:49:39 08/26/91
 REPT 09:57:26 08/26/91
 TOT RUN TIME 0:07:26
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /339	UNIT NUMBER: 1
SAMPLE ID: Hole 89-7 # 15421	START 10:08:28 08/26/91
SUBMITTER: # 39	REPT 10:28:45 08/26/91
OPERATOR: KM	TOT RUN TIME 0:07:28
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	LIQ VISC: 0.7270 cp
RUN TYPE: High Speed	
STARTING DIAMETER: 50.00 μ m	REYNOLDS NUMBER: 0.21
ENDING DIAMETER: 0.40 μ m	FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 5.57 μ m MODAL DIAMETER: 10.63 μ m

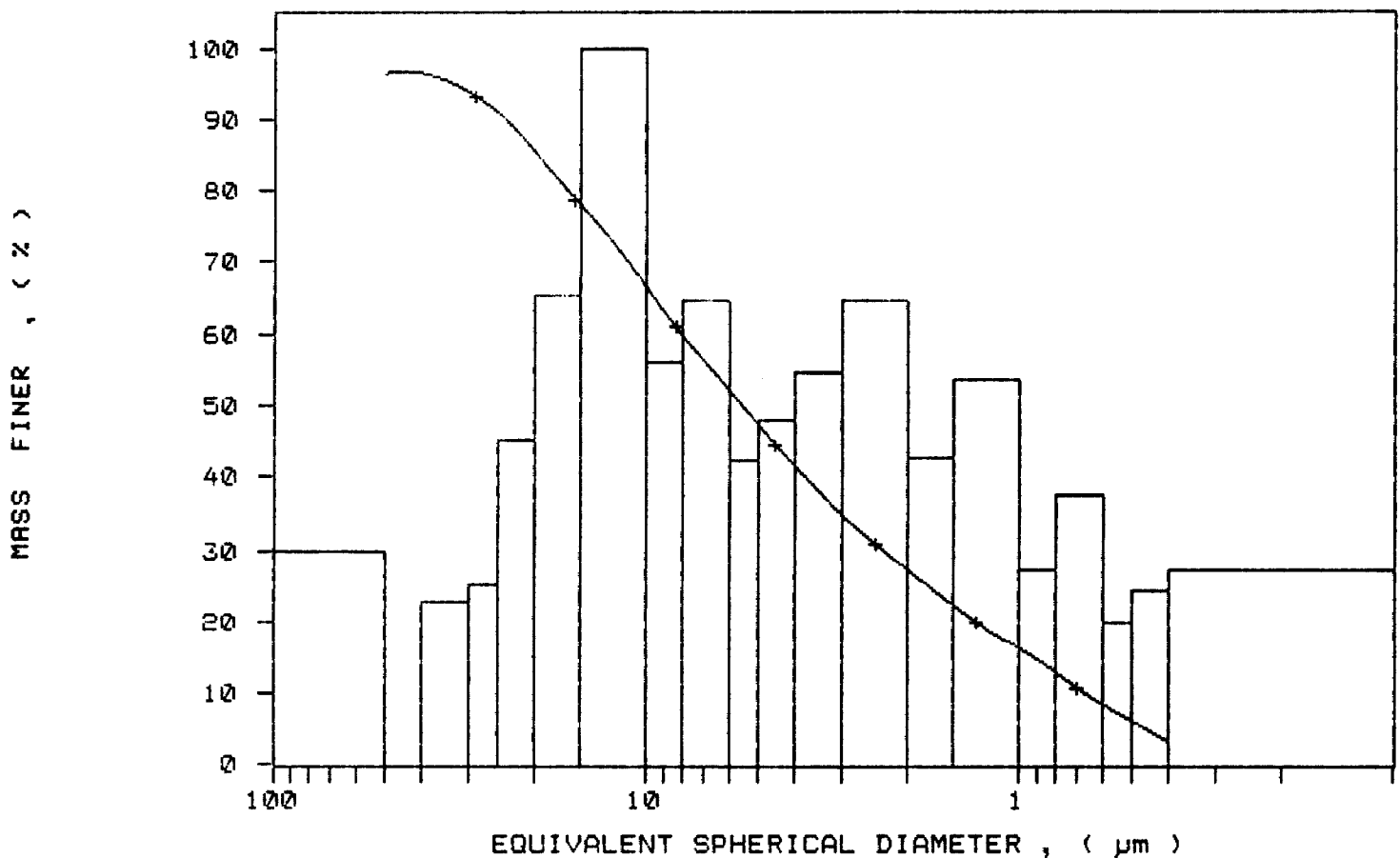
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.5	3.5
40.00	96.5	-0.0
30.00	93.8	2.7
25.00	90.8	3.0
20.00	85.5	5.3
15.00	77.9	7.7
10.00	66.2	11.7
8.00	59.6	6.6
6.00	52.0	7.6
5.00	47.0	5.0
4.00	41.4	5.6
3.00	35.0	6.4
2.00	27.4	7.6
1.50	22.4	5.0
1.00	16.1	6.3
0.80	12.9	3.2
0.60	8.5	4.4
0.50	6.1	2.4
0.40	3.2	2.9

MINERAL RESEARCH
CANADA
1 INDUSTRIAL BLDG. RR2
BERRY SOUND, ONTARIO
CANADA P1A 2W8
FAX (705) 378-5123 BUS (705) 378-2416
DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /339
 SAMPLE ID: Hole 89-7 # 15421
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 10:08:28 08/26/91
 REPT 10:28:45 08/26/91
 TOT RUN TIME 0:07:28
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7270 cp

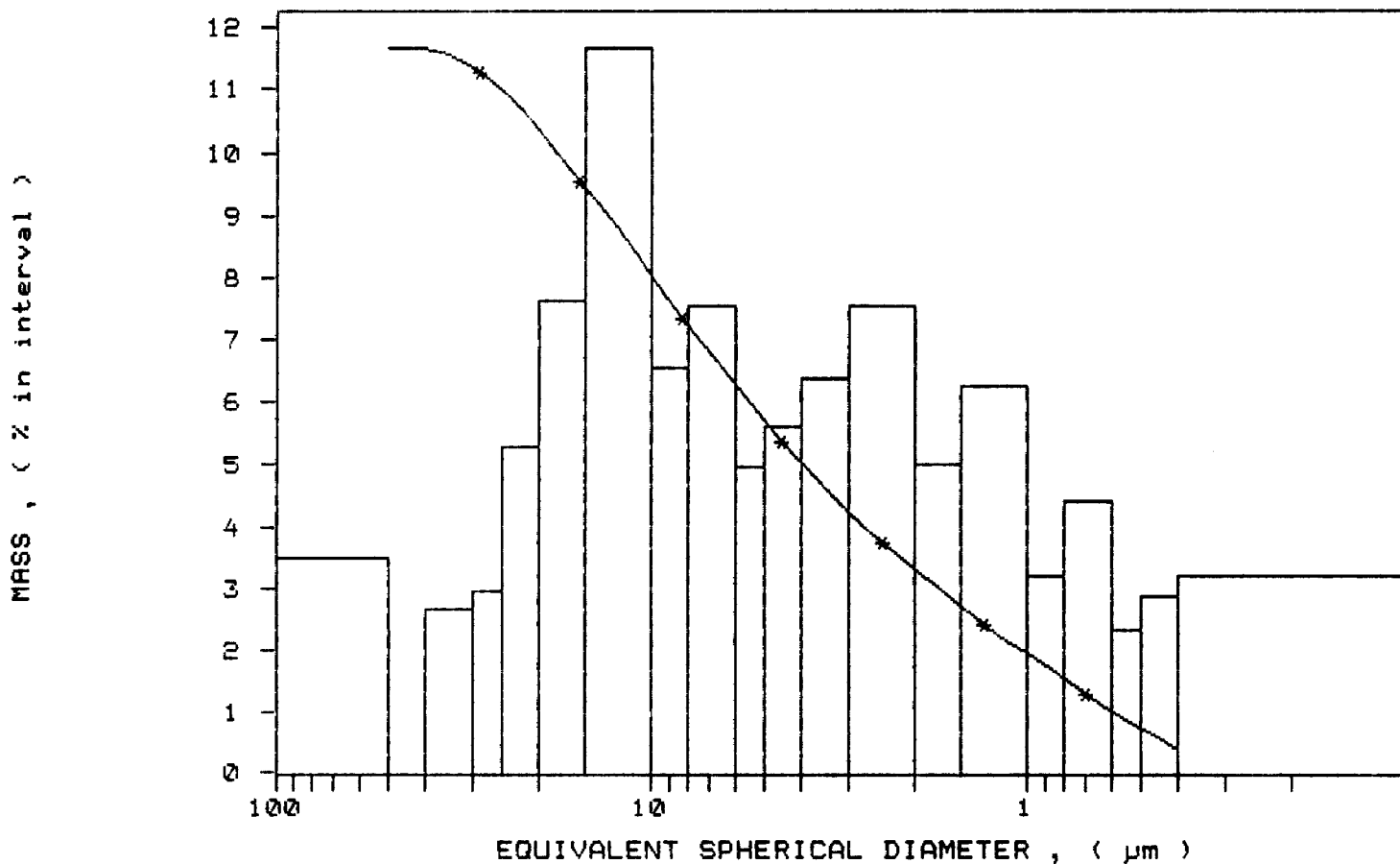
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAS /339
SAMPLE ID: Hole 89-7 # 15421
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 10:08:28 08/26/91
REPT 10:28:45 08/26/91
TOT RUN TIME 0:07:28
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7270 cp

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



SediGraph 5100 V2.03

Hole 89-7 # 15422

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAS /340
SAMPLE ID: Hole 89-7 # 15422
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 10:53:14 08/26/91
REPR 11:01:04 08/26/91
TOT RUN TIME 0:07:30
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7270 cp

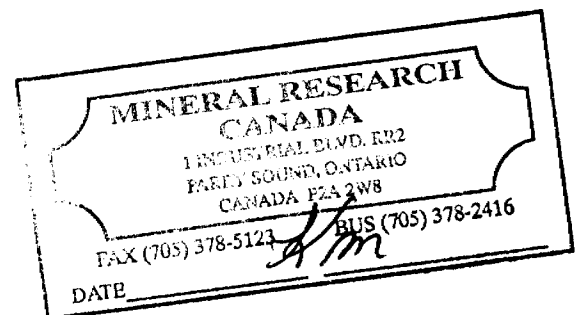
STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.54 μ m MODAL DIAMETER: 4.36 μ m

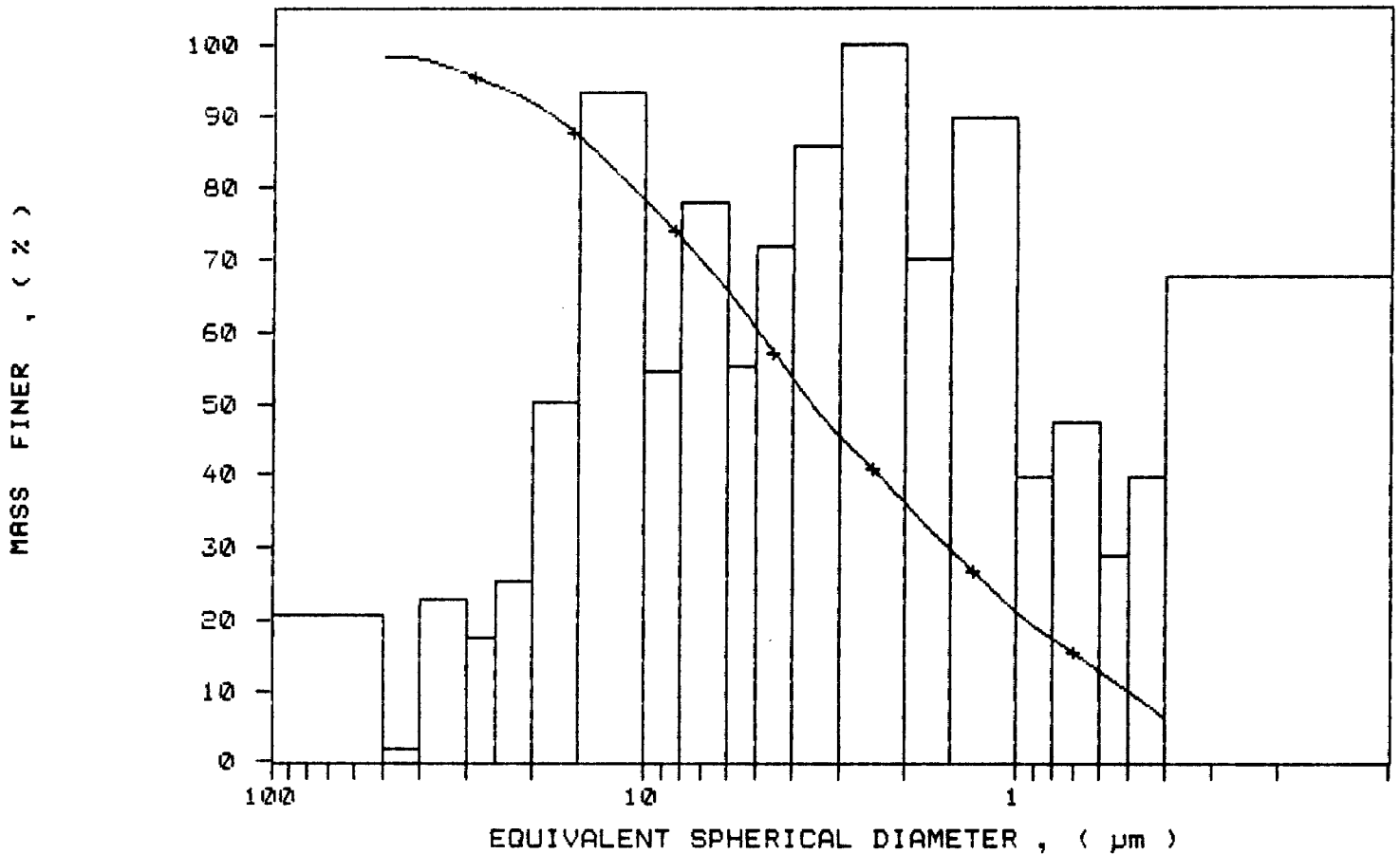
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.0	2.0
40.00	97.8	0.2
30.00	95.6	2.2
25.00	94.0	1.6
20.00	91.6	2.4
15.00	86.8	4.8
10.00	78.1	8.8
8.00	72.9	5.1
6.00	65.6	7.3
5.00	60.4	5.2
4.00	53.6	6.8
3.00	45.5	8.1
2.00	36.1	9.4
1.50	29.5	6.6
1.00	21.1	8.4
0.80	17.3	3.8
0.60	12.9	4.5
0.50	10.1	2.7
0.40	6.4	3.8



SAMPLE DIRECTORY/NUMBER: DATA5 /340
SAMPLE ID: Hole 89-7 # 15422
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 10:53:14 08/26/91
REPT 11:01:04 08/26/91
TOT RUN TIME 0:07:30
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7270 cp

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

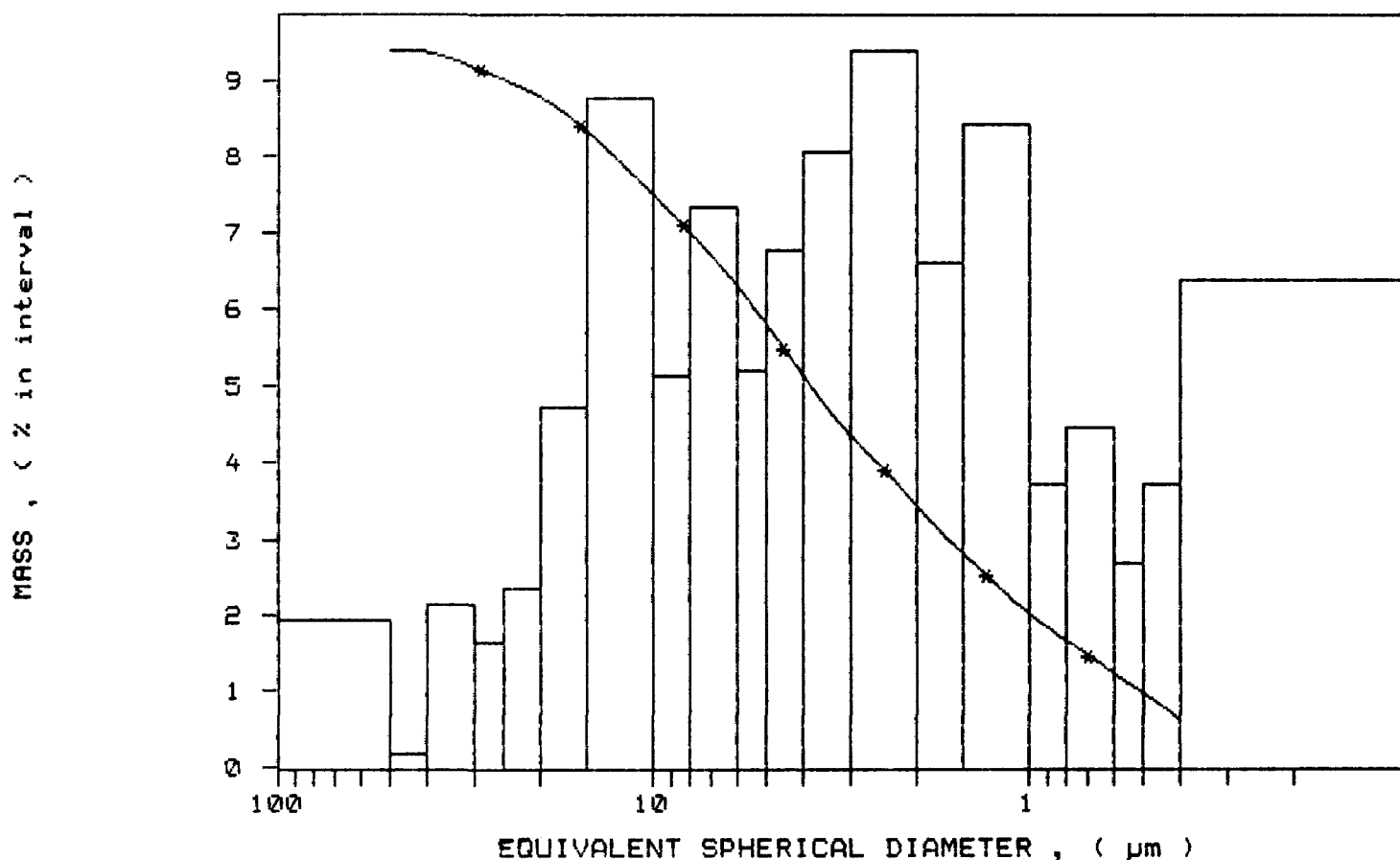


SAMPLE DIRECTORY/NUMBER: DATAS /340
SAMPLE ID: Hole 89-7 # 15422
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1
START 10:53:14 08/26/91
REPT 11:01:04 08/26/91
TOT RUN TIME 0:07:30
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7270 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /341
 SAMPLE ID: Hole 89-7 # 15423
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 11:13:20 08/26/91
 REPT 11:34:15 08/26/91
 TOT RUN TIME 0:07:24
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7270 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.82 μ m MODAL DIAMETER: 10.68 μ m

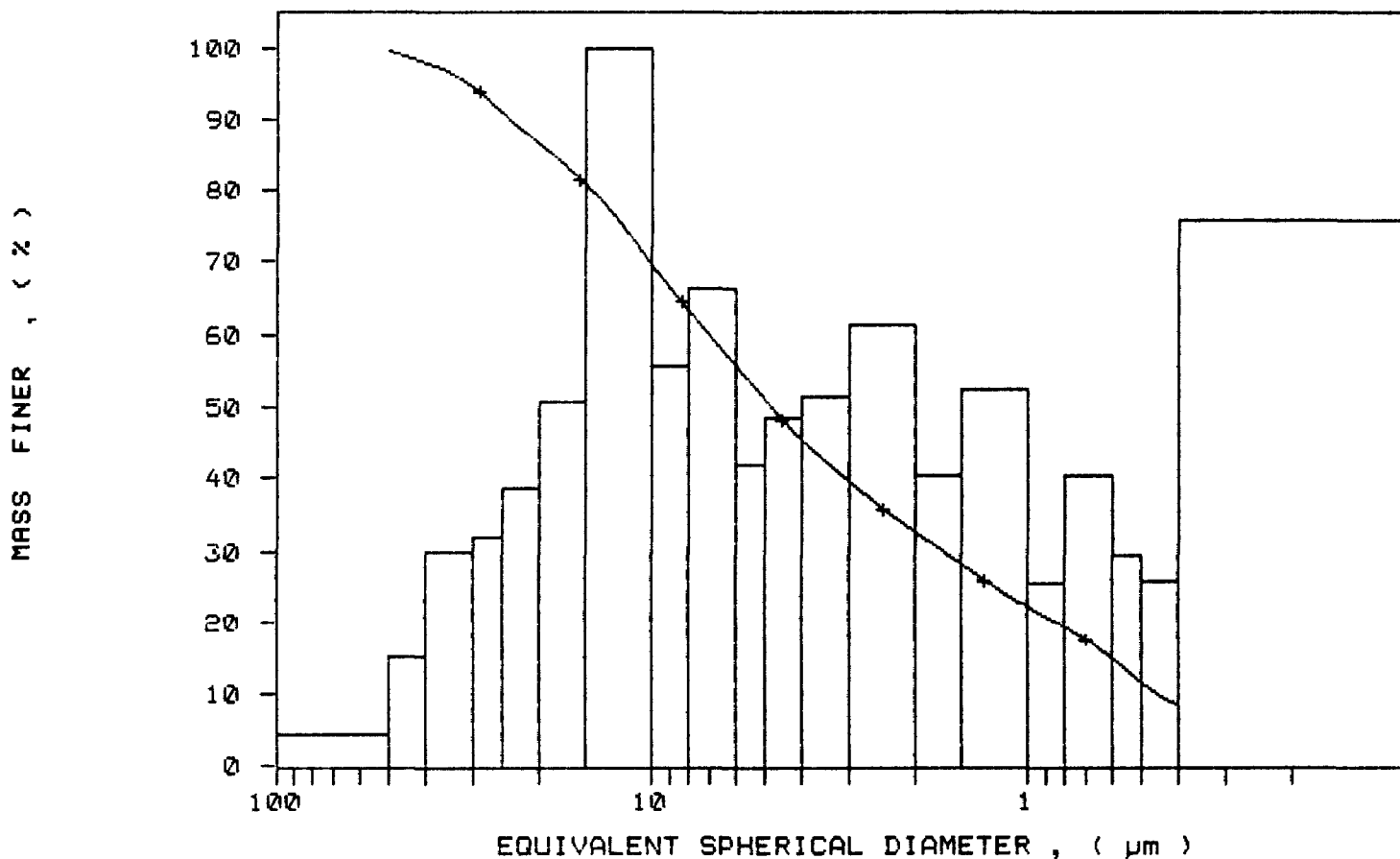
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.5	0.5
40.00	97.8	1.7
30.00	94.4	3.4
25.00	90.8	3.6
20.00	86.4	4.4
15.00	80.7	5.7
10.00	69.4	11.2
8.00	63.1	6.3
6.00	55.7	7.5
5.00	50.9	4.7
4.00	45.5	5.5
3.00	39.7	5.8
2.00	32.8	6.9
1.50	28.2	4.6
1.00	22.3	5.9
0.80	19.4	2.9
0.60	14.8	4.6
0.50	11.5	3.3
0.40	8.5	3.0



SAMPLE DIRECTORY/NUMBER: DATAS /341
SAMPLE ID: Hole 89-7 # 15423
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

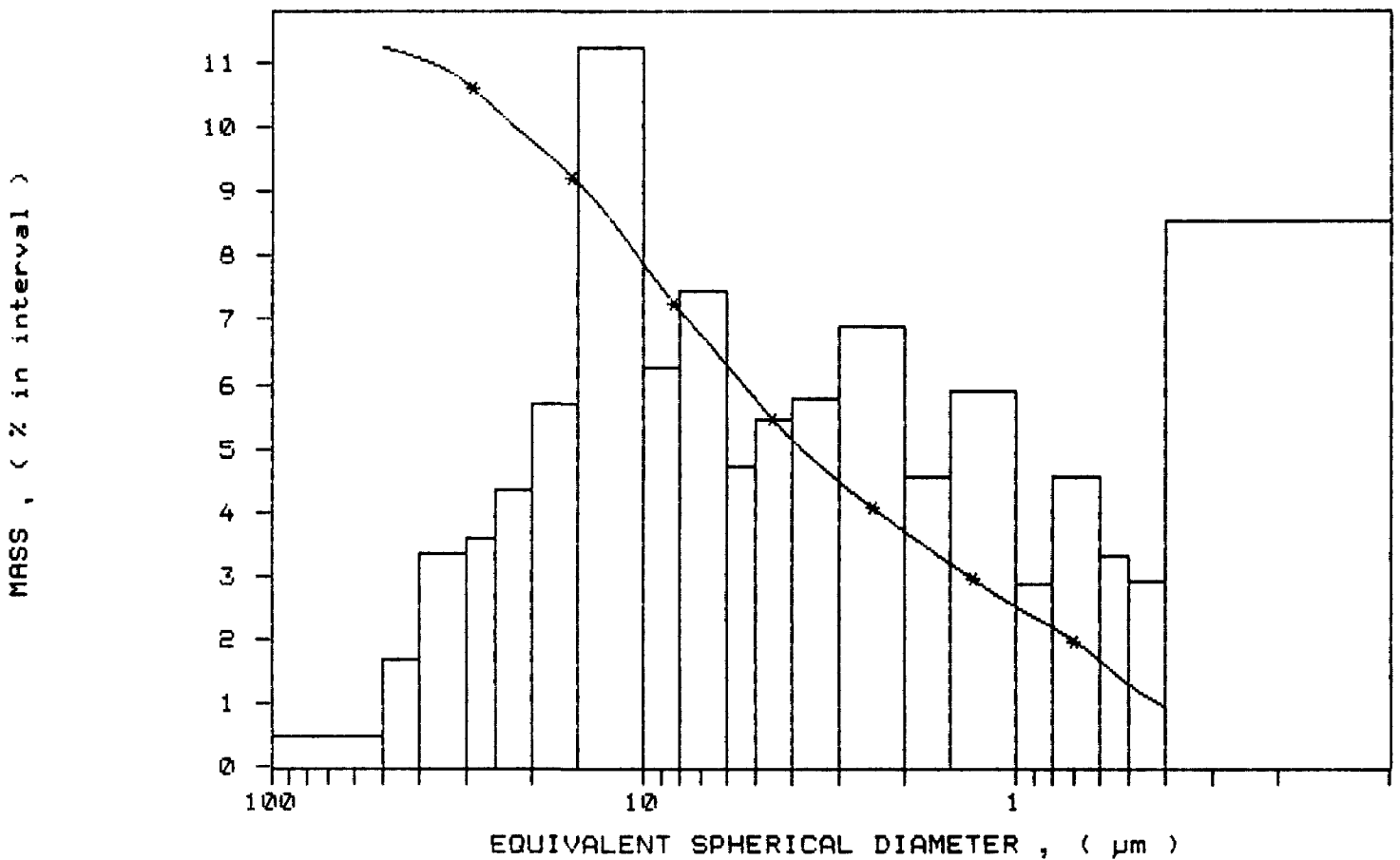
UNIT NUMBER: 1
START 11:13:20 08/26/91
REPR 11:34:15 08/26/91
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7270 cp

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



SAMPLE DIRECTORY/NUMBER: DATAS /341	UNIT NUMBER: 1
SAMPLE ID: Hole 89-7 # 15423	START 11:13:20 08/26/91
SUBMITTER: # 39	REPRT 11:34:15 08/26/91
OPERATOR: KM	TOT RUN TIME 0:07:24
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	LIQ VISC: 0.7270 cp
RUN TYPE: High Speed	

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



SediGraph 5100 V2.03

Hole 89-7 # 15424

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /342
SAMPLE ID: Hole 89-7 # 15424
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 11:32:16 08/26/91
REPR 11:40:02 08/26/91
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7270 cp

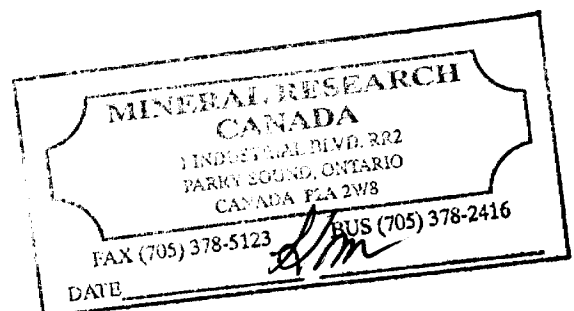
STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 7.88 μ m MODAL DIAMETER: 13.38 μ m

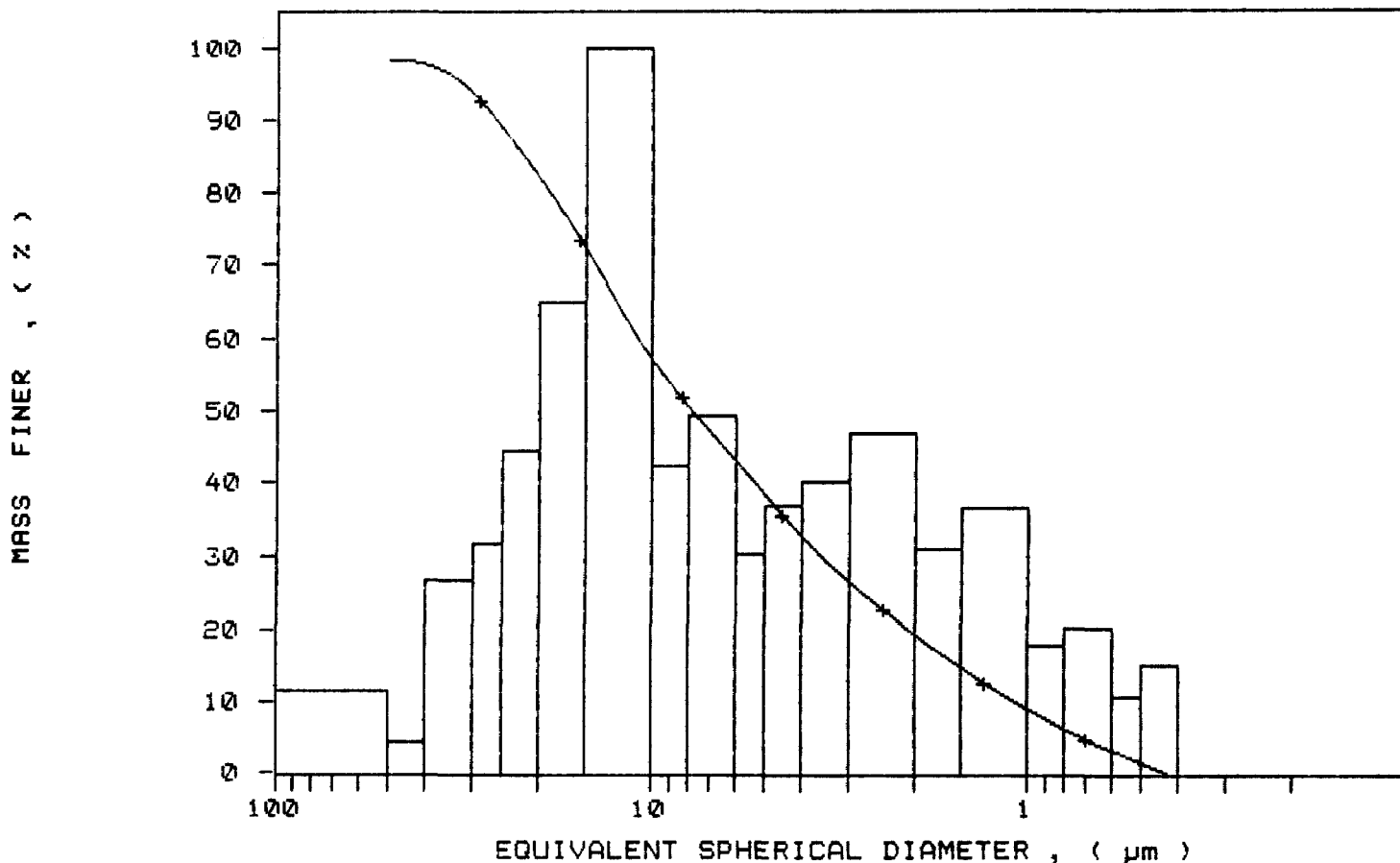
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.2	1.8
40.00	97.5	0.7
30.00	93.4	4.1
25.00	88.6	4.8
20.00	81.9	6.8
15.00	72.0	9.9
10.00	56.8	15.2
8.00	50.4	6.4
6.00	42.9	7.5
5.00	38.3	4.6
4.00	32.6	5.6
3.00	26.5	6.1
2.00	19.4	7.1
1.50	14.7	4.7
1.00	9.1	5.6
0.80	6.3	2.7
0.60	3.3	3.1
0.50	1.6	1.7
0.40	-0.7	2.3



SAMPLE DIRECTORY/NUMBER: DATA5 /342
SAMPLE ID: Hole 89-7 # 15424
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 11:32:16 08/26/91
REPT 11:40:02 08/26/91
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7270 cp

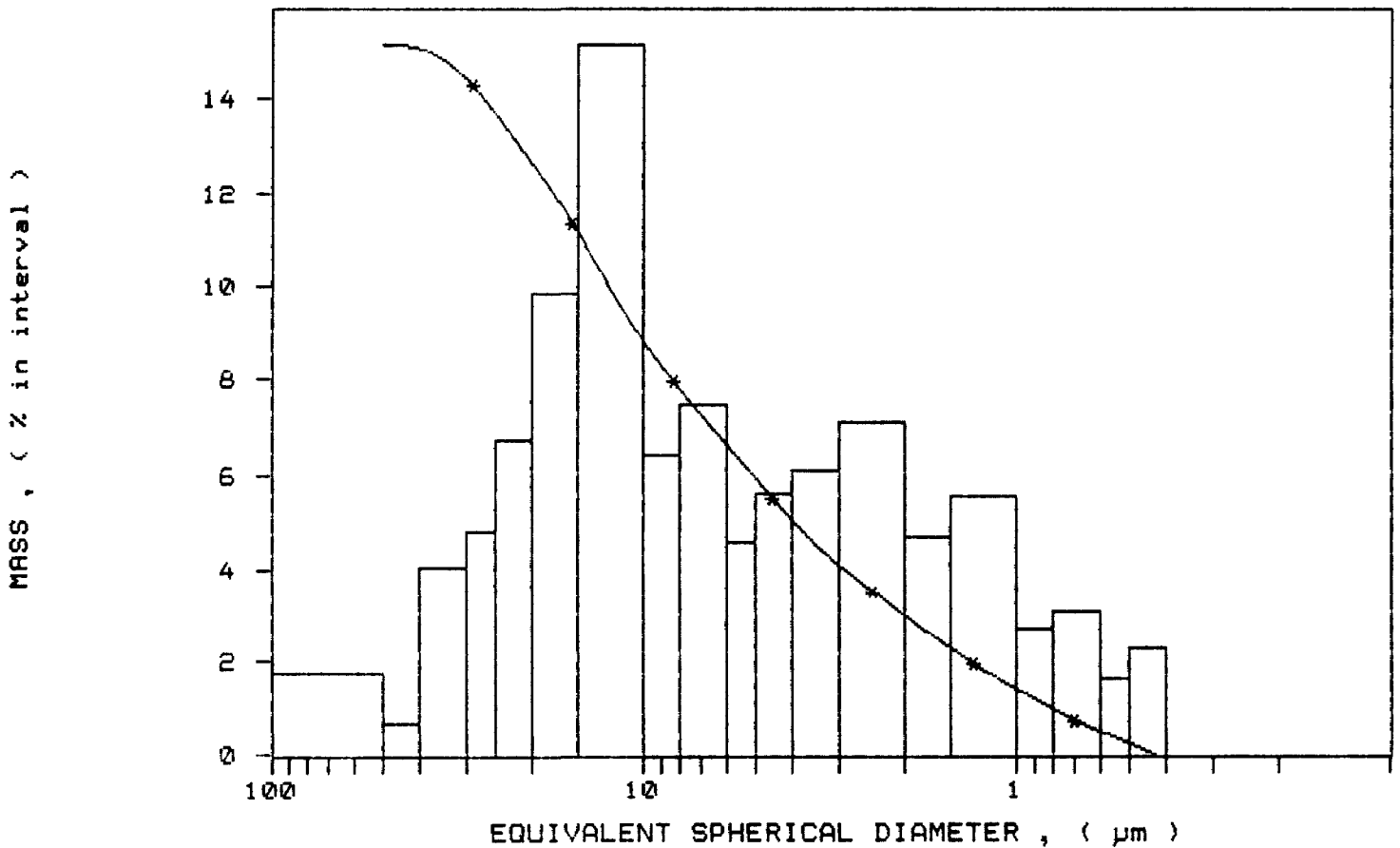
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAS /342
SAMPLE ID: Hole 89-7 # 15424
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 11:32:16 08/26/91
REPT 11:40:02 08/26/91
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7270 cp

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



SAMPLE DIRECTORY/NUMBER: DATAS /343
 SAMPLe ID: Hole 89-7 # 15425
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLe TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:00:14 08/26/91
 REPRt 12:20:55 08/26/91
 TOT RUN TIME 0:07:23
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7270 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.33 μ m MODAL DIAMETER: 4.09 μ m

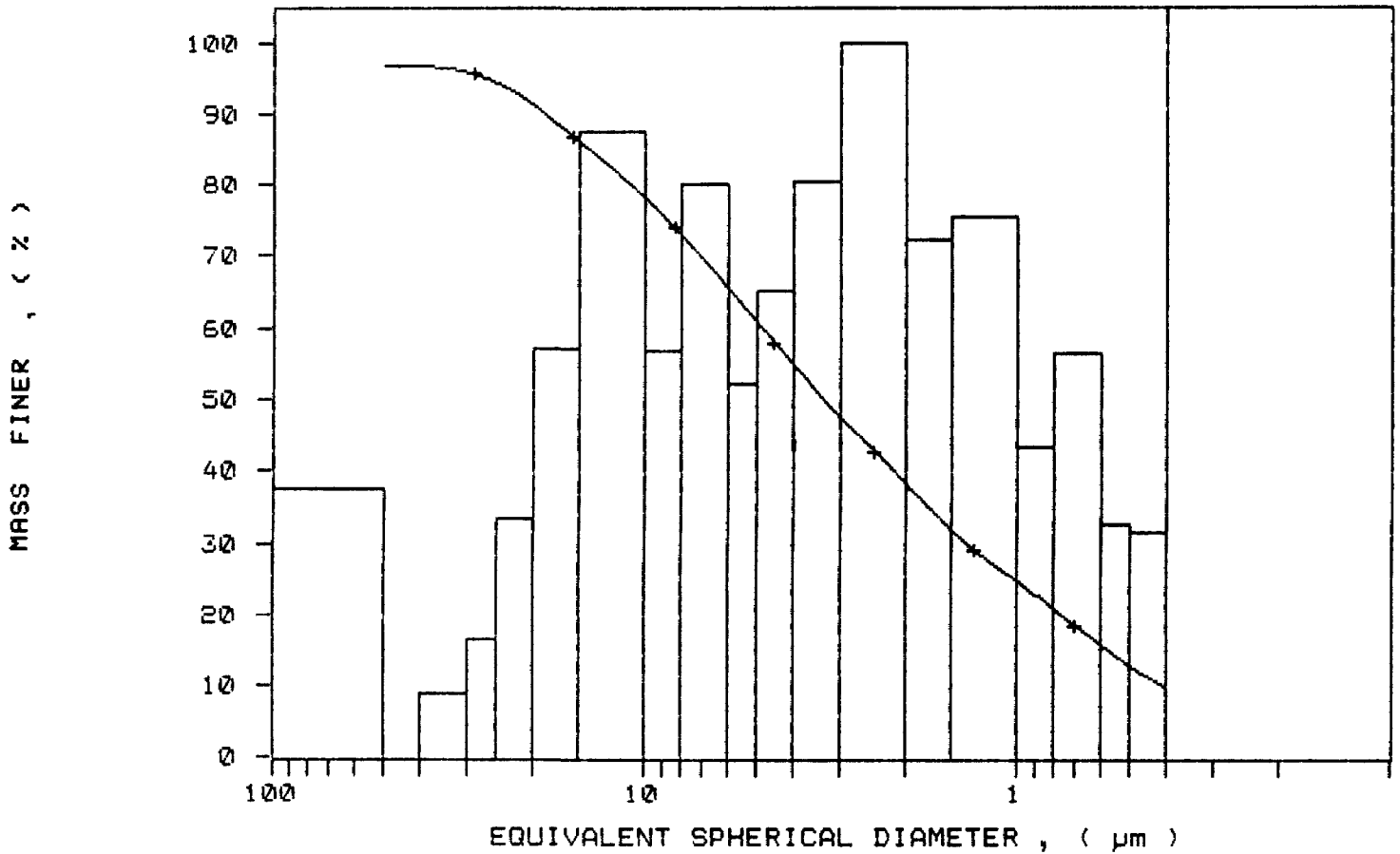
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.6	3.4
40.00	96.6	-0.0
30.00	95.7	0.8
25.00	94.2	1.5
20.00	91.2	3.1
15.00	86.0	5.2
10.00	78.0	8.0
8.00	72.8	5.2
6.00	65.5	7.3
5.00	60.8	4.8
4.00	54.8	5.9
3.00	47.5	7.3
2.00	38.4	9.1
1.50	31.8	6.6
1.00	24.9	6.9
0.80	21.0	3.9
0.60	15.8	5.2
0.50	12.8	3.0
0.40	9.9	2.9

MINERAL RESEARCH
 CANADA
 1 INDUSTRIAL BLVD. RP2
 PARKY BLVD, ONTARIO
 CANADA P7 2W8
 FAX (705) 378-5123
 BUS (705) 378-2416
 DATE *dm*

SAMPLE DIRECTORY/NUMBER: DATAS /343
SAMPLE ID: Hole 89-7 # 15425
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 12:00:14 08/26/91
REPT 12:20:55 08/26/91
TOT RUN TIME 0:07:23
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7270 cp

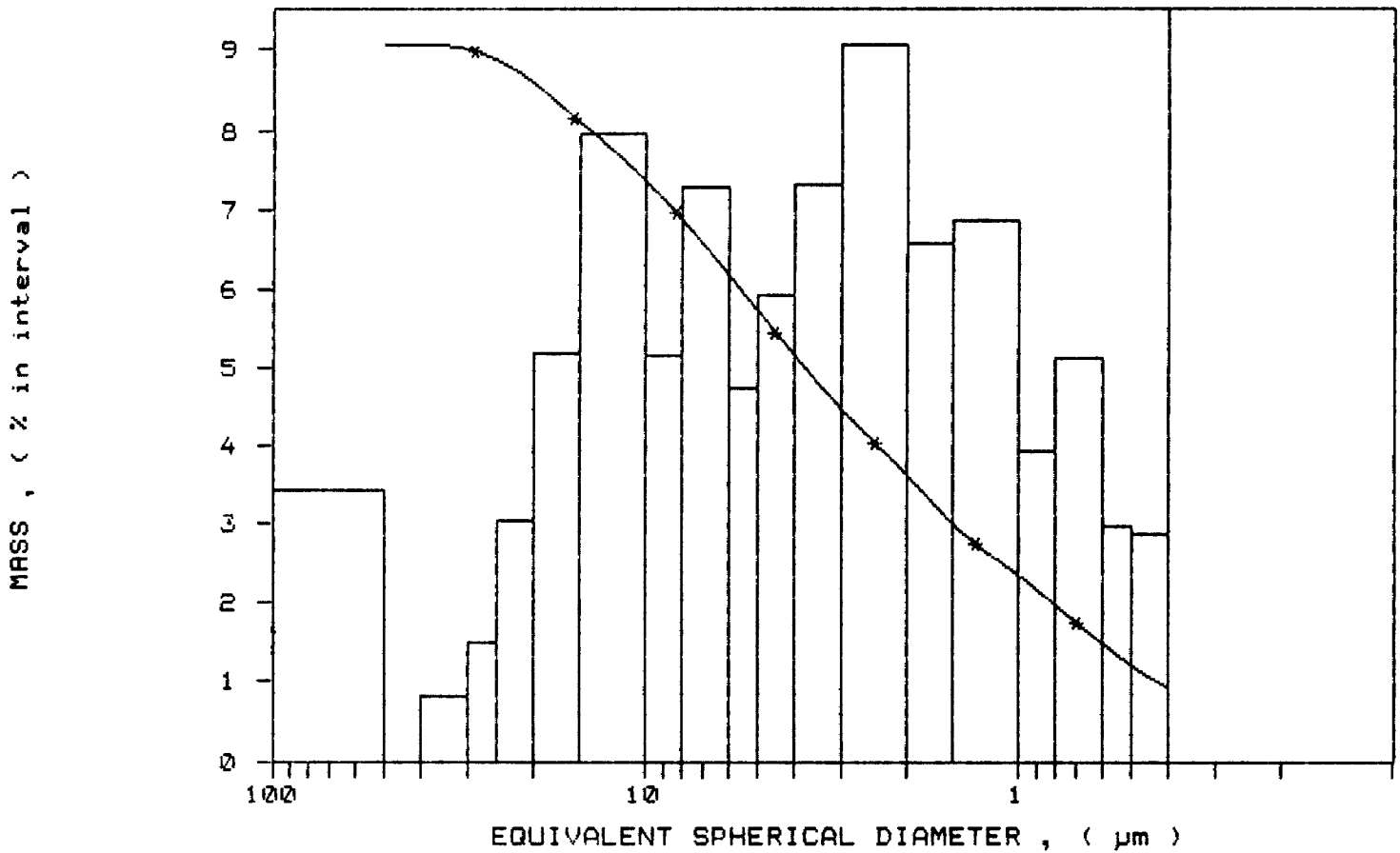
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /343
 SAMPLE ID: Hole 89-7 # 15425
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 12:00:14 08/26/91
 REPR 12:20:55 08/26/91
 TOT RUN TIME 0:07:23
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7270 cp

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



MINERAL RESEARCH CANADA

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

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

88-18

ANALYSIS REPORT

SAMPLE # SCREEN % MOISTURE % pH (20% SOLIDS)

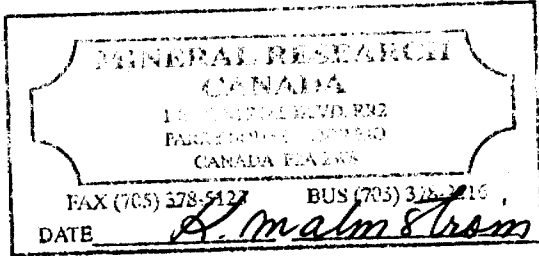
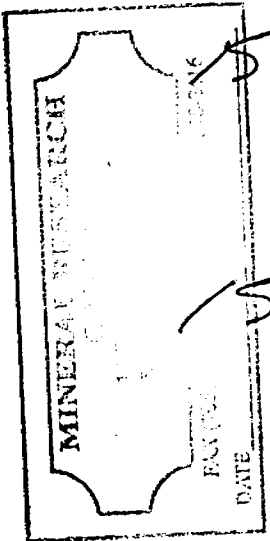
15751 + 4 0.7
 + 40 18.0 6.25
 +100 5.4
 +200 1.5
 +325 4.1
 -325 70.3

15752 + 4 3.8
 + 40 59.0 9.6
 +100 7.6
 +200 1.6
 +325 2.5
 -325 25.5

15753 + 4 0
 + 40 51.5 9.7
 +100 35.2
 +200 3.8
 +325 1.7
 -325 7.8

15754 + 4 0
 + 40 30.4 12.75
 +100 56.6
 +200 2.1
 +325 1.8
 -325 9.1

15755 + 4 0
 + 40 29.9 14.85
 +100 39.0
 +200 7.4
 +325 7.1
 -325 16.6



MINERAL RESEARCH CANADA

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

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

Doo-18

ANALYSIS REPORT

SAMPLE # SCREEN % MOISTURE % pH (20% SOLIDS)

15756

+ 4	2.0	
+ 40	64.1	9.1
+100	21.9	
+200	1.7	
+325	0.3	
-325	9.8	

15757

+ 4	0.8	
+ 40	56.7	11.15
+100	33.0	
+200	1.2	
+325	0.3	
-325	7.2	

15758

+ 4	0.1	
+ 40	67.2	9.7
+100	19.9	
+200	1.7	
+325	0.7	
-325	10.4	

15759

+ 4	0.3	
+ 40	64.1	9.9
+100	23.3	
+200	2.7	
+325	0.8	
-325	8.8	

15760

+ 4	0.2	
+ 40	60.3	11.5
+100	29.9	
+200	1.7	
+325	0.8	
-325	7.1	

MINERAL RESEARCH
 CANADA
 1 INDUSTRIAL BLVD RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 TEL: (705) 378-2416
 FAX: (705) 378-5123
 DATE: *8/11*

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 %	pH (20% SOLIDS)
15761	+ 4	0.7	10.3	7.1
	+ 40	74.5		
	+100	16.7		
	+200	1.1		
	+325	0.3		
	-325	6.7		
15762	+ 4	0.1	7.1	7.1
	+ 40	42.3		
	+100	2.9		
	+200	9.3		
	+325	0.2		
	-325	45.2		
15763	+ 4	0	11.9	7.1
	+ 40	82.5		
	+100	7.0		
	+200	2.9		
	+325	0.7		
	-325	6.9		
15764	+ 4	2.7	8.4	7.1
	+ 40	73.6		
	+100	13.0		
	+200	1.4		
	+325	0.8		
	-325	8.5		
15765	+ 4	1.4	15.0	7.1
	+ 40	24.7		
	+100	3.3		
	+200	1.1		
	+325	1.3		
	-325	68.2		

MINERAL RESEARCH CANADA
1 INDUSTRIAL BLVD., RR2
PARRY SOUND, ON. CANADA
P2A 2W8
TEL: (705) 378-2416
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Sm

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 %	pH (20% SOLIDS)
15766	+ 4	0.7	13.9	
	+ 40	6.6		
	+100	7.9		
	+200	3.7		
	+325	9.8		
	-325	71.3		
15767	+ 4	0	14.9	
	+ 40	0.6		
	+100	2.8		
	+200	22.0		
	+325	20.97		
	-325	53.7		
15768	+ 4	1.7	14.0	
	+ 40	2.3		
	+100	7.1		
	+200	3.3		
	+325	6.7		
	-325	79.7		
15769	+ 4	0	9.7	
	+ 40	23.4		
	+100	39.7		
	+200	8.9		
	+325	2.1		
	-325	23.9		
15770	+ 4	3.0	5.5	
	+ 40	1.7		
	+100	0.5		
	+200	7.1		
	+325	5.0		
	-325	85.7		

Am

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 % pH (20% SOLIDS)

15571 + 4 0
+ 40 0.7 17.2
+100 6.3
+200 9.7
+325 11.2
-325 72.1

15572 + 4 0
+ 40 0.3 11.9
+100 5.7
+200 8.2
+325 13.4
-325 72.4

15573 + 4 0.1 12.5
+ 40 2.0
+100 4.9
+200 10.2
+325 14.3
-325 68.5

15574 + 4 0
+ 40 82.1 11.3
+100 9.7
+200 1.0
+325 5.4
-325 1.8

15575 + 4 0
+ 40 0.1 12.4
+100 3.2
+200 6.8
+325 14.9
-325 75.0

MINERAL RESEARCH CANADA 1 INDUSTRIAL BLVD. RR2 PARRY SOUND, ON. CANADA P2A 2W8	
TEL (705) 378-2416	FAX (705) 378-5123
DATE	<i>[Signature]</i>

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 % pH (20% SOLIDS)

15776

+ 4	0	
+ 40	0.4	
+100	0.7	
+200	7.8	12.3
+325	12.0	
-325	79.1	

15777

+ 4	2.1	
+ 40	78.5	
+100	7.7	6.7
+200	2.7	
+325	1.6	
-325	7.4	

15778

+ 4	1.0	
+ 40	3.6	
+100	5.9	14.0
+200	17.4	
+325	26.8	
-325	45.3	

15779

+ 4	1.2	
+ 40	68.1	
+100	2.9	9.3
+200	16.8	
+325	0.3	
-325	10.7	

15780

+ 4	0	
+ 40	0.4	
+100	3.8	
+200	17.6	13.4
+325	29.3	
-325	53.9	

DATE: _____
SIGNATURE: *Slon*

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 % pH (20% SOLIDS)

15781

+ 4 0
+ 40 0.6
+100 3.9
+200 19.5
+325 32.6
-325 43.1

12.6

LOH

+ 4
+ 40
+100
+200
+325
-325

+ 4
+ 40
+100
+200
+325
-325

+ 4
+ 40
+100
+200
+325
-325

+ 4
+ 40
+100
+200
+325
-325

A.M.

SediGraph 5100 V2.03

Hole D 88-18 # 15751

PAGE 1

SAMPLE DIRECTORY NUMBER: DATA5 /220
 SAMPLE ID: Hole D 88-18 # 15751
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:12:37 06/27/91
 REPRT 14:28:35 06/27/91
 TOT RUN TIME 0:07:10
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7265 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 2.65 μ m

MASS DISTRIBUTION

MODAL DIAMETER: 2.75 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.7	0.3
40.00	99.2	0.5
30.00	97.1	2.1
25.00	93.8	3.3
20.00	89.1	4.7
15.00	83.8	5.3
10.00	76.8	7.0
8.00	72.6	6.6
6.00	67.4	5.2
5.00	63.6	6.0
4.00	59.0	4.6
3.00	53.0	6.0
2.00	43.8	9.1
1.50	38.1	5.7
1.00	29.7	8.4
0.80	25.2	4.5
0.60	19.8	5.5
0.50	17.1	2.7
0.40	14.4	2.6

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 48-5123 BUS (705) 478-2416
 DATE *K. Malmstrom*

SAMPLE DIRECTORY/NUMBER: DATA5 /220

SAMPLE ID: Hole D 88-18 # 15751

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 14:12:37 06/27/91

REPRT 14:28:35 06/27/91

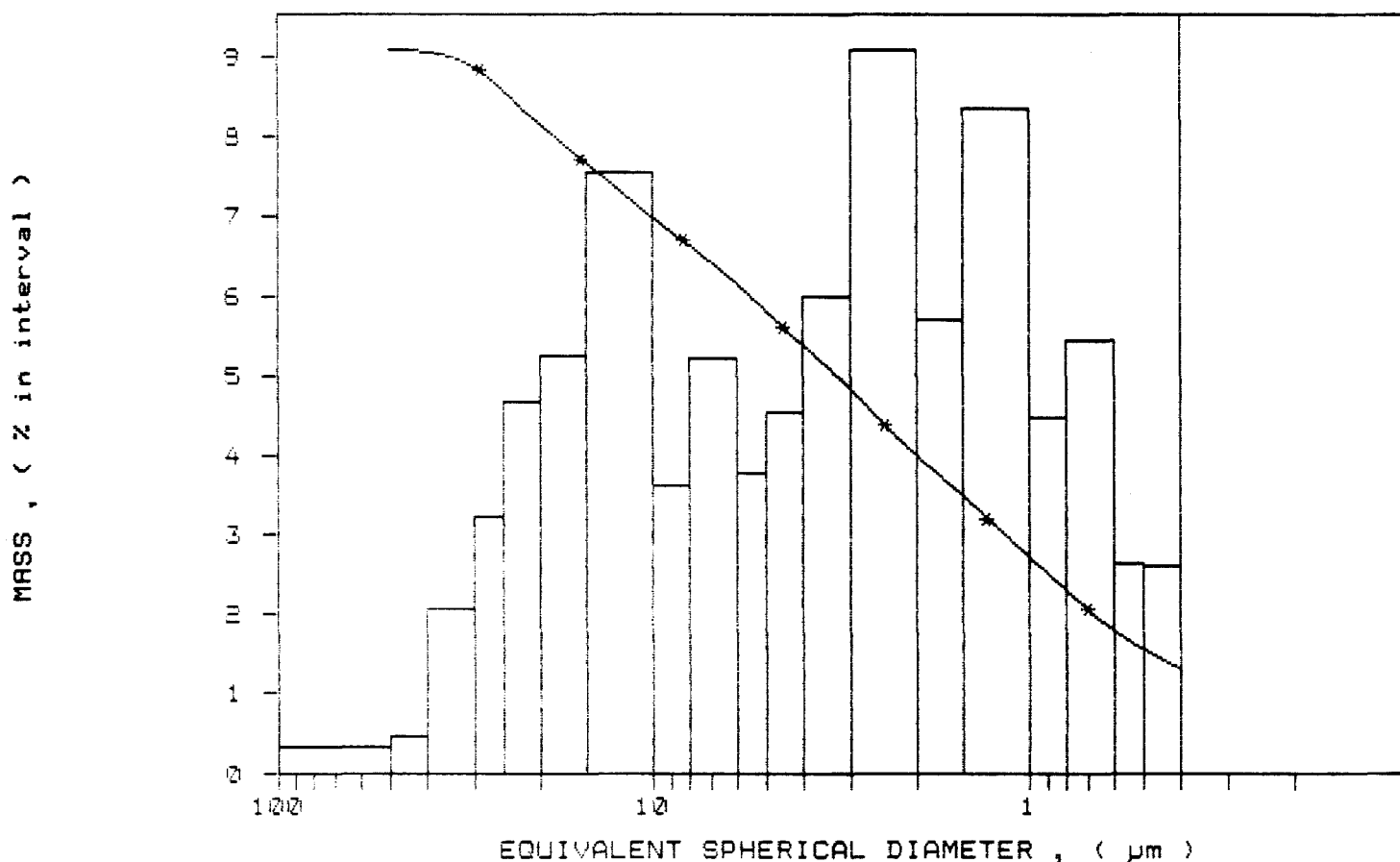
TOT RUN TIME 0:07:10

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7265 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /221
 SAMPLE ID: Hole D 88-18 # 15752
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:31:52 06/27/91
 REPT 14:47:38 06/27/91
 TOT RUN TIME 0:07:10
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7263 cp

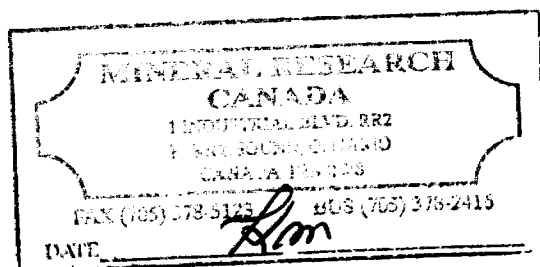
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.92 μ m MODAL DIAMETER: 1.12 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.3	-1.3
40.00	99.9	1.3
30.00	98.8	1.2
25.00	97.4	1.4
20.00	95.4	2.0
15.00	92.5	2.9
10.00	88.2	4.3
8.00	85.1	3.1
6.00	80.8	4.4
5.00	77.6	3.1
4.00	73.6	4.1
3.00	68.5	5.1
2.00	62.5	6.0
1.50	58.5	4.0
1.00	51.5	7.0
0.80	47.9	3.6
0.60	43.6	4.3
0.50	40.6	3.0
0.40	37.1	3.5



SAMPLE DIRECTORY/NUMBER: DATA5 /221

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15752

START 14:31:52 06/27/91

SUBMITTER: # 39

REPRT 14:47:38 06/27/91

OPERATOR: KM

TOT RUN TIME 0:07:10

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

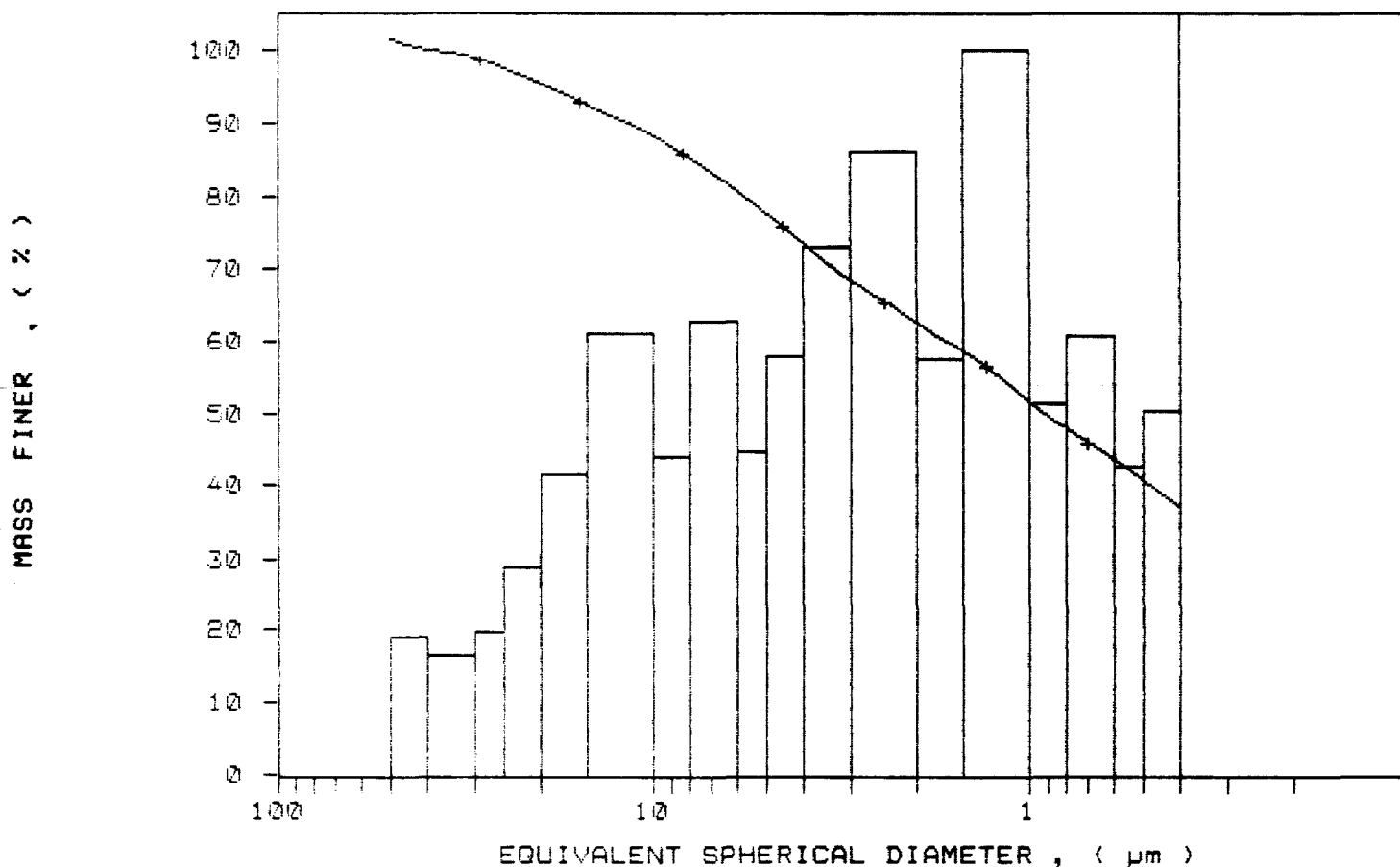
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7263 cp

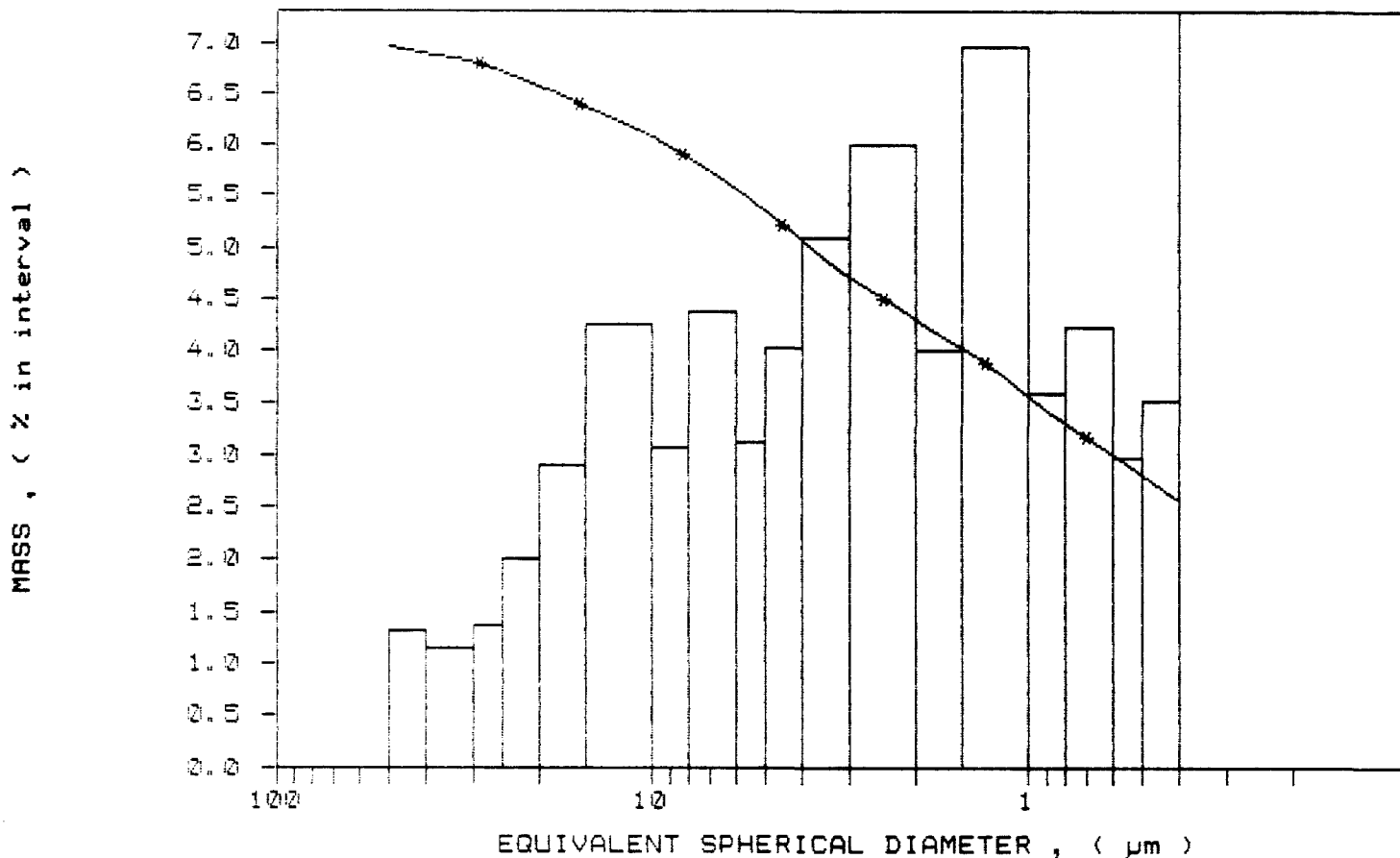
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /221
 SAMPLE ID: Hole D 88-18 # 15752
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 14:31:52 06/27/91
 REPT 14:47:38 06/27/91
 TOT RUN TIME 0:07:10
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7263 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /222
 SAMPLE ID: Hole D 88-18 # 15753
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 15:05:29 06/27/91
 REPT 15:21:09 06/27/91
 TOT RUN TIME 0:07:06
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.85 μ m MODAL DIAMETER: 1.47 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.7	2.3
40.00	99.3	-1.6
30.00	97.1	2.2
25.00	95.6	1.5
20.00	94.3	1.3
15.00	90.8	3.5
10.00	85.8	4.9
8.00	81.7	4.2
6.00	76.4	5.3
5.00	71.9	4.5
4.00	67.0	4.8
3.00	60.9	6.2
2.00	52.0	8.8
1.50	44.0	8.1
1.00	32.7	11.2
0.80	26.0	4.7
0.60	23.0	4.9
0.50	20.2	2.9
0.40	15.5	4.7



SAMPLE DIRECTORY/NUMBER: DATA5 /222

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15753

START 15:05:29 06/27/91

SUBMITTER: # 39

REPT 15:21:09 06/27/91

OPERATOR: KM

TOT RUN TIME 0:07:06

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

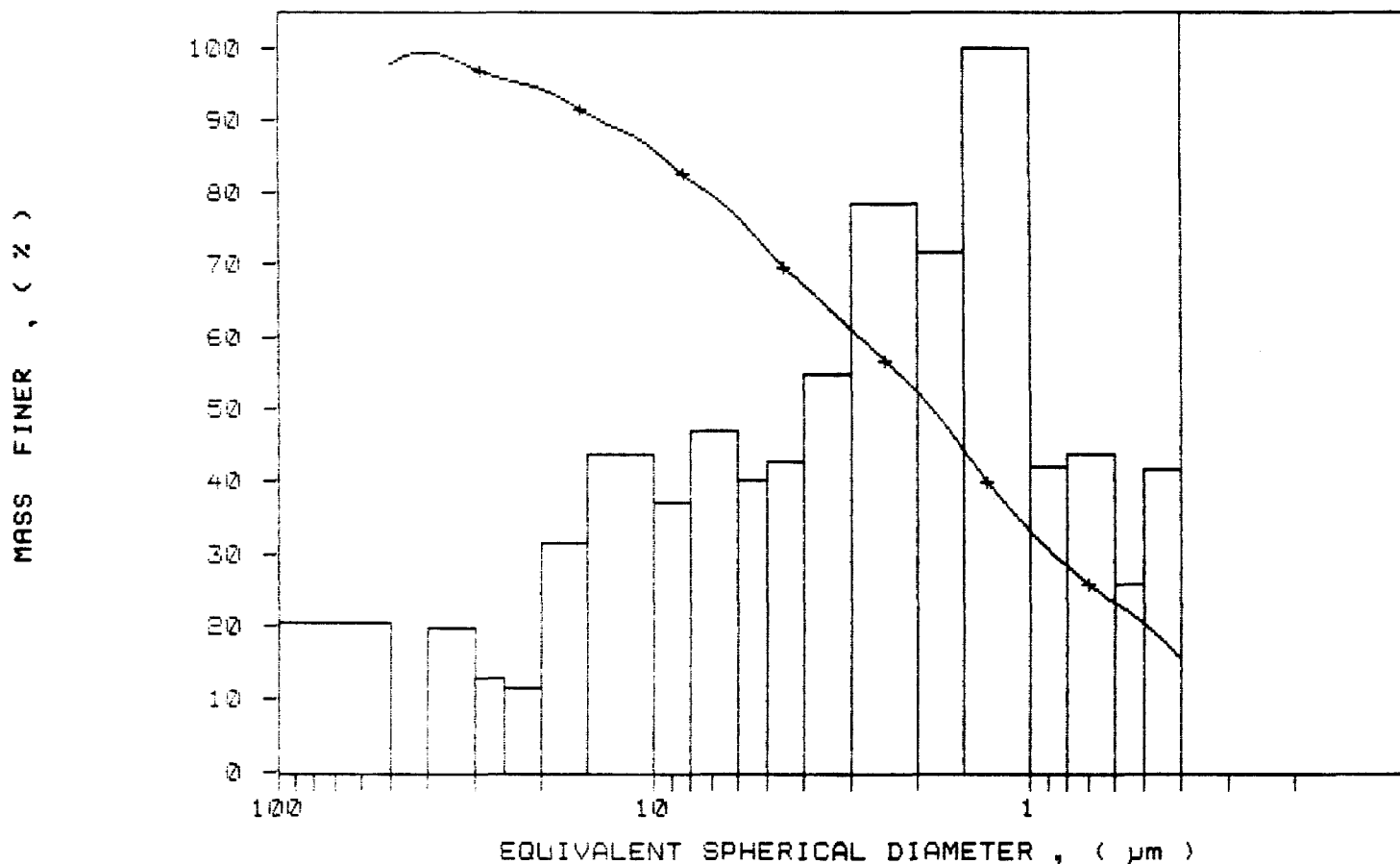
LIQUID TYPE: water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7264 cp

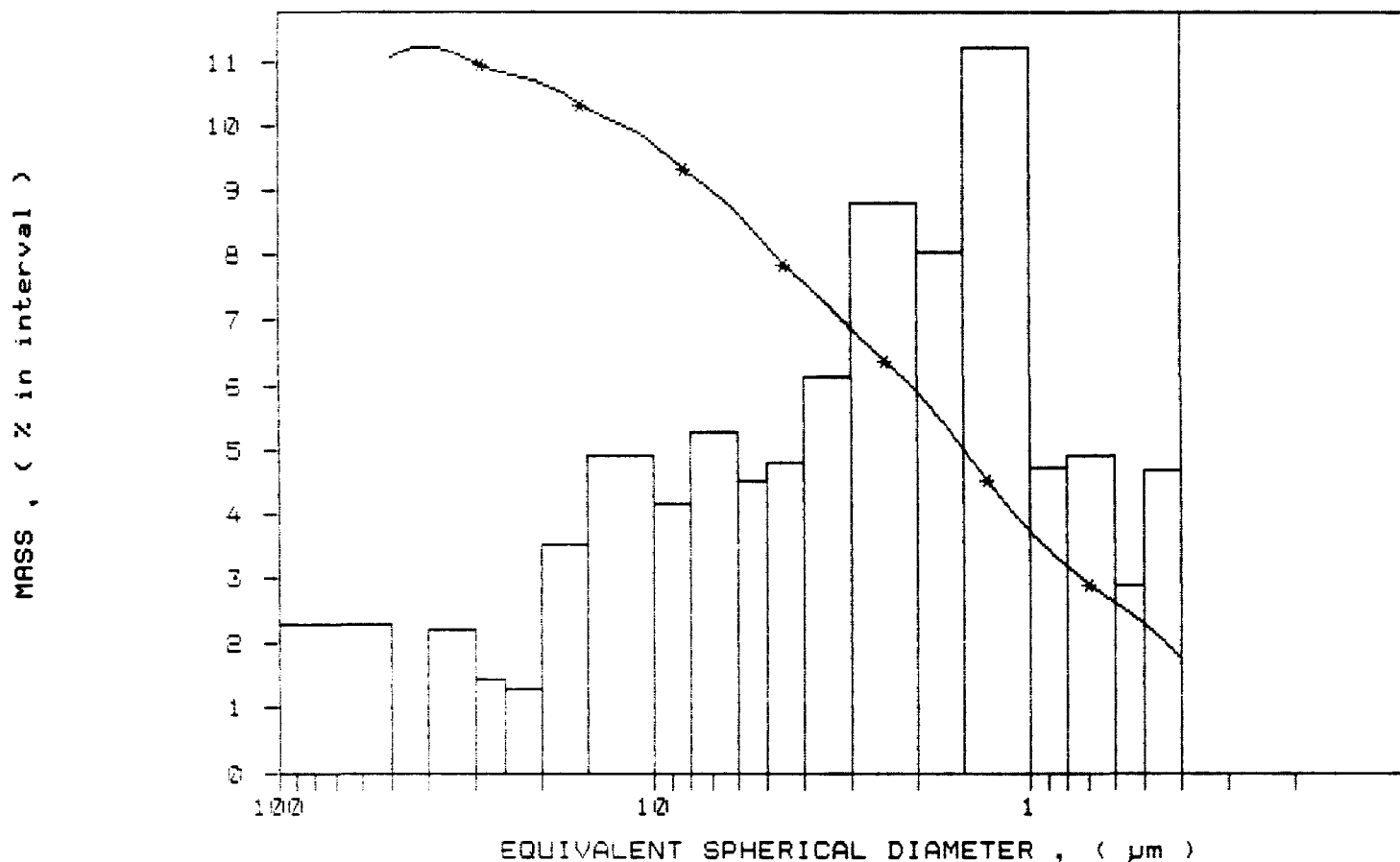
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /222
 SAMPLE ID: Hole D 88-18 # 15753
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 15:05:29 06/27/91
 REPT 15:21:09 06/27/91
 TOT RUN TIME 0:07:06
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

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



SediGraph 5100 V2.03

Hole D 88-18 # 15754

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /223
 SAMPLE ID: Hole D 88-18 # 15754
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 15:26:07 06/27/91
 REPRT 15:42:02 06/27/91
 TOT RUN TIME 0:07:20
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7262 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 2.73 μ m MASS DISTRIBUTION
 MODAL DIAMETER: 3.74 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.4	3.6
40.00	97.0	-0.6
30.00	97.5	-0.5
25.00	96.4	1.1
20.00	93.7	2.7
15.00	88.7	5.0
10.00	81.9	6.8
8.00	78.4	3.5
6.00	72.0	6.4
5.00	67.1	5.0
4.00	60.5	6.6
3.00	51.6	8.7
2.00	42.4	9.4
1.50	36.3	6.1
1.00	28.6	7.5
0.80	24.7	4.1
0.60	20.7	4.0
0.50	18.2	2.5
0.40	15.3	2.9

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

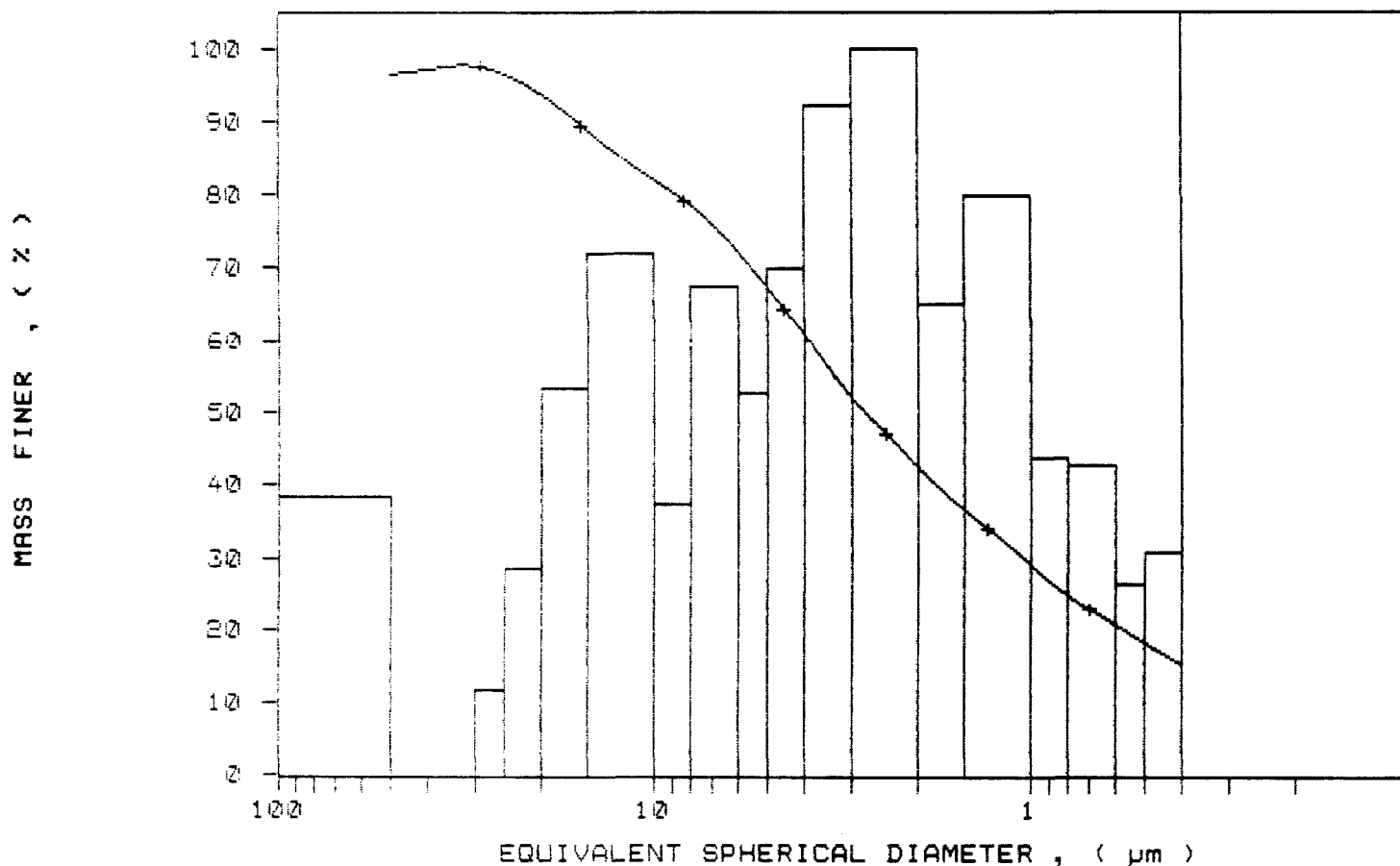
FAX (705) 378-5123 BUS (705) 378-2416

DATE *DM*

SAMPLE DIRECTORY/NUMBER: DATA5 /223
 SAMPLE ID: Hole D 88-18 # 15754
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 15:26:07 06/27/91
 REPR 15:42:02 06/27/91
 TOT RUN TIME 0:07:20
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7262 cp

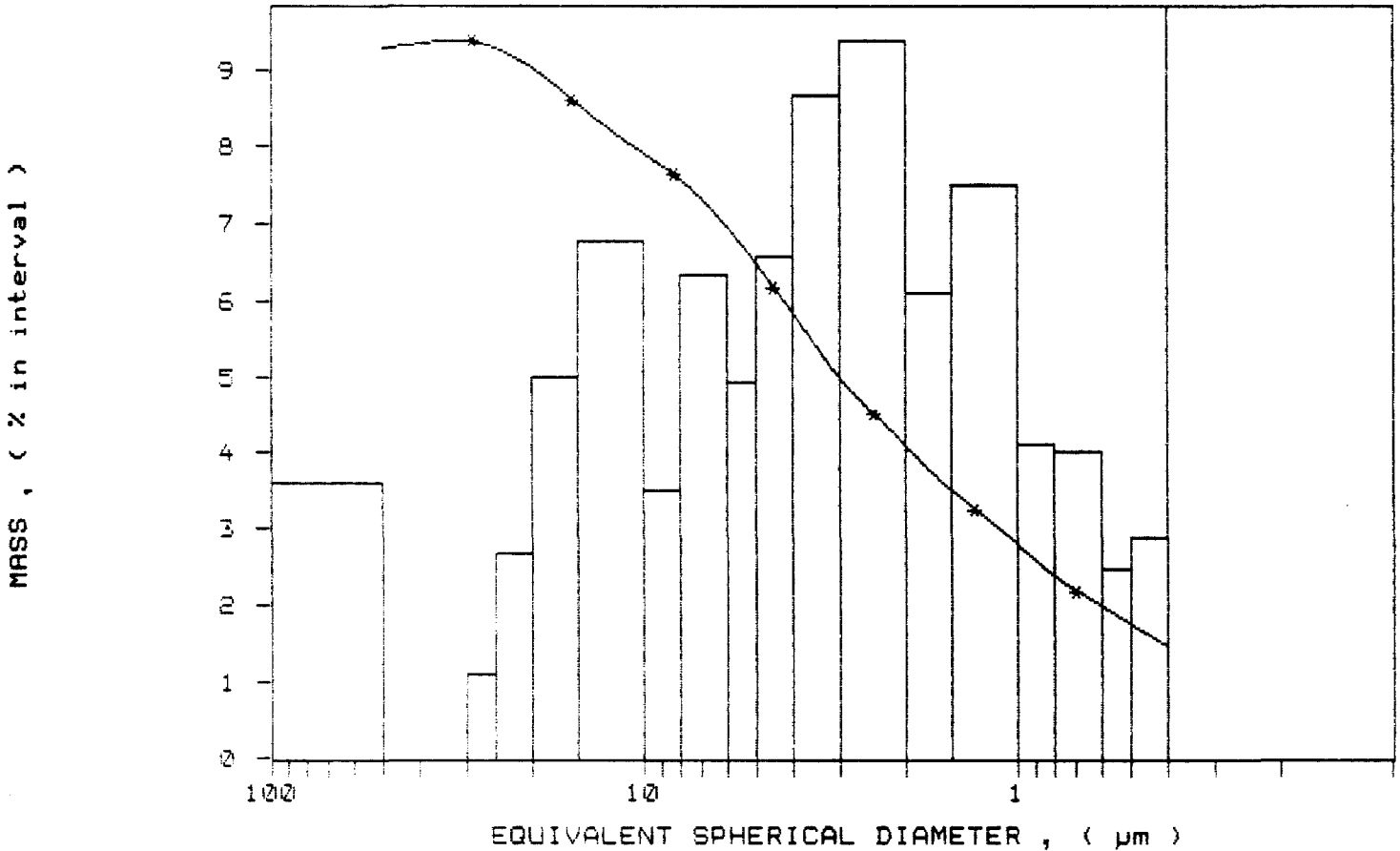
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /223
SAMPLE ID: Hole D 88-18 # 15754
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 15:26:07 06/27/91
REPT 15:42:02 06/27/91
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7262 cp

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



SediGraph 5100 V2.03

Hole D 88-18 # 15755

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAS /224
 SAMPLE ID: Hole D 88-18 # 15755
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 10:07:58 06/28/91
 REPT 10:23:44 06/28/91
 TOT RUN TIME 0:07:10
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 2.97 μ m MASS DISTRIBUTION

MODAL DIAMETER: 6.81 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.4	2.6
40.00	98.4	-1.0
30.00	98.9	0.1
25.00	96.8	1.5
20.00	93.9	2.9
15.00	89.0	4.9
10.00	80.9	8.0
8.00	75.4	5.5
6.00	67.8	7.6
5.00	63.1	4.8
4.00	57.4	5.7
3.00	50.2	7.1
2.00	42.0	8.2
1.50	36.7	5.2
1.00	29.6	7.1
0.80	25.0	4.6
0.60	20.3	4.7
0.50	17.7	2.6
0.40	15.1	2.6

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PAPY SOUND, ONTARIO
 CANADA P2A 2W0

FAX (705) 378-5123 BUS (705) 378-2415
 DATE *Am*

SAMPLE DIRECTORY/NUMBER: DATA5 /224

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15755

START 10:07:58 06/28/91

SUBMITTER: # 39

REPRT 10:23:44 06/28/91

OPERATOR: KM

TOT RUN TIME 0:07:10

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

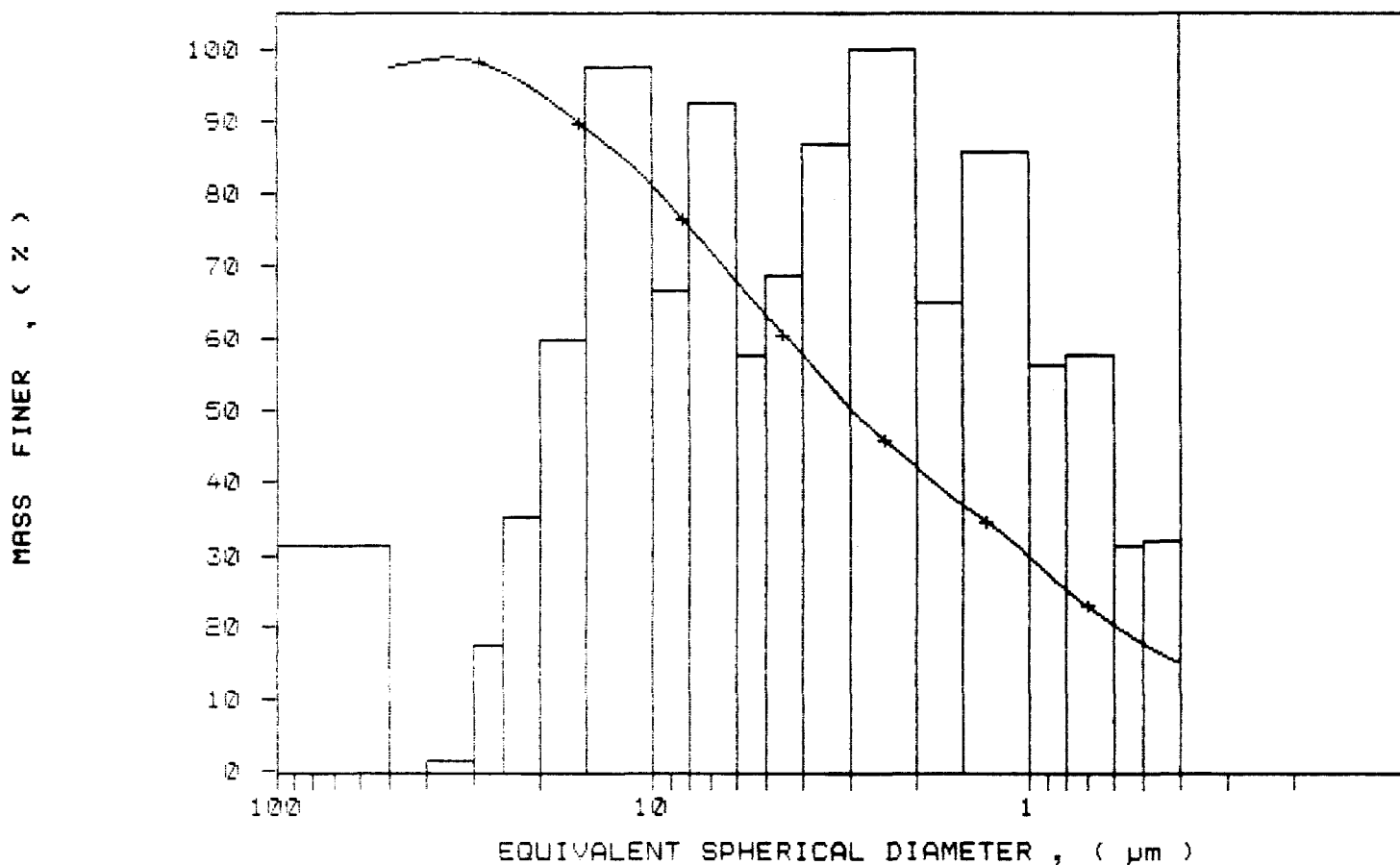
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7264 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /224

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15755

START 10:07:58 06/28/91

SUBMITTER: # 39

REPT 10:23:44 06/28/91

OPERATOR: KM

TOT RUN TIME 0:07:10

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

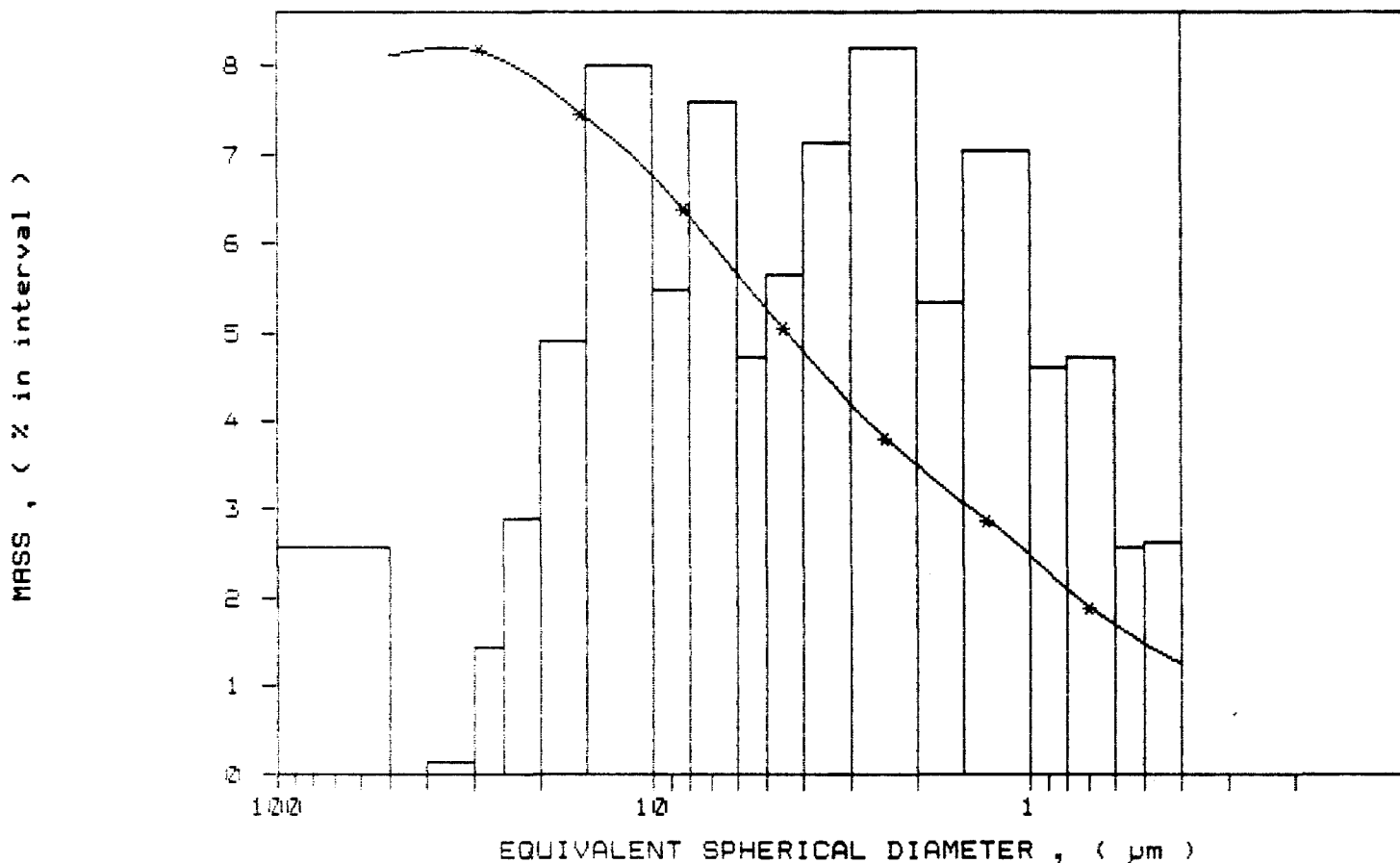
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7264 cp

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



Hole D 88-18 # 15756

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /225
 SAMPLE ID: Hole D 88-18 # 15756
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.8 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 10:40:34 06/28/91
 REPT 10:56:21 06/28/91
 TOT RUN TIME 0:07:11
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7261 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.25 μ m MODAL DIAMETER: 5.80 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.2	1.8
40.00	98.2	-0.0
30.00	96.5	1.7
25.00	95.1	1.4
20.00	92.7	2.4
15.00	88.6	4.2
10.00	82.8	5.7
8.00	79.4	3.4
6.00	72.7	6.7
5.00	67.9	4.7
4.00	63.0	4.9
3.00	56.9	6.1
2.00	47.5	9.4
1.50	42.2	5.3
1.00	34.0	8.2
0.80	29.6	4.2
0.60	25.3	4.5
0.50	22.6	2.8
0.40	19.0	3.6

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /225

SAMPLE ID: Hole D 88-18 # 15756

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.8 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 10:40:34 06/28/91

REPT 10:56:21 06/28/91

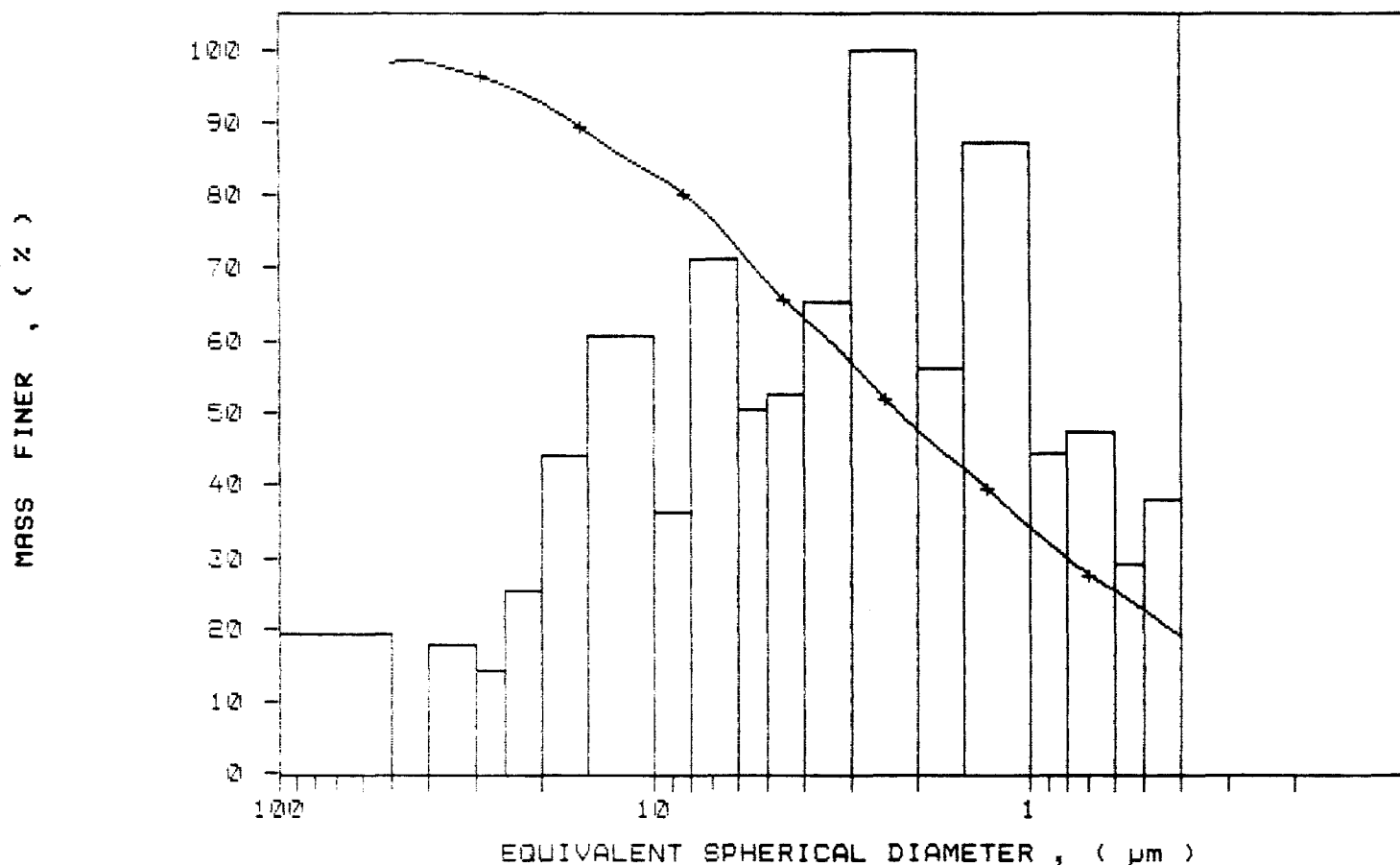
TOT RUN TIME 0:07:11

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7261 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /225

SAMPLE ID: Hole D 88-18 # 15756

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.8 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 10:40:34 06/28/91

REPT 10:56:21 06/28/91

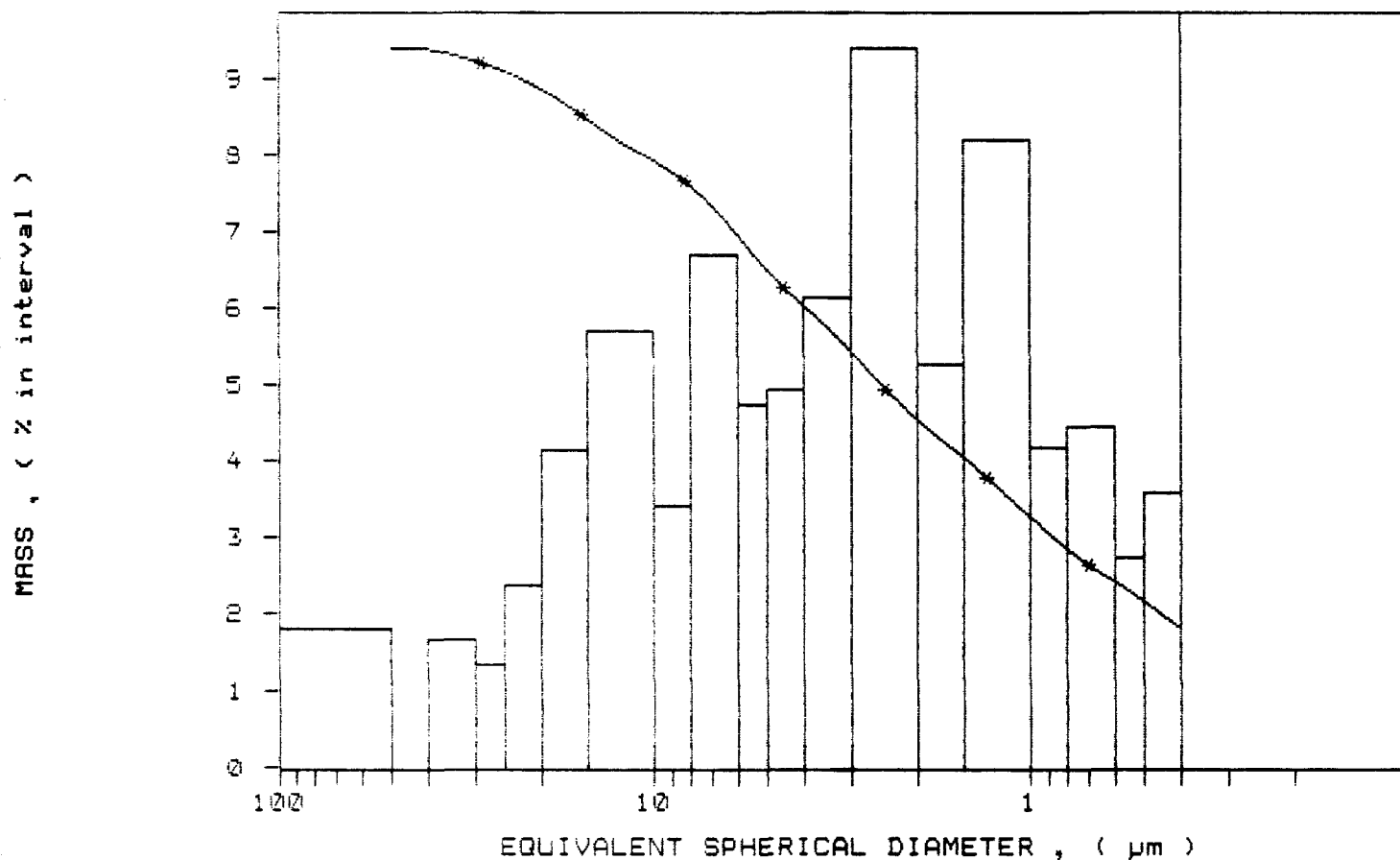
TOT RUN TIME 0:07:11

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7261 cp

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



SediGraph 5100 V2.03

Hole D 88-18 # 15757

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAS /226
 SAMPLE ID: Hole D 88-18 # 15757
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.8 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 11:02:36 06/28/91
 REPR 11:18:33 06/28/91
 TOT RUN TIME 0:07:25
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7257 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.30 μ m MASS DISTRIBUTION

MODAL DIAMETER: 1.55 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.8	1.2
40.00	98.2	0.6
30.00	97.3	0.9
25.00	96.4	0.9
20.00	94.7	1.7
15.00	92.2	2.6
10.00	88.8	3.4
8.00	86.4	2.3
6.00	82.0	4.4
5.00	78.8	3.7
4.00	73.1	5.2
3.00	65.0	8.0
2.00	53.5	11.6
1.50	43.4	10.1
1.00	30.4	13.0
0.80	24.7	5.7
0.60	18.6	6.1
0.50	15.1	3.5
0.40	11.2	3.9

**MINERAL RESEARCH
CANADA**

1 INDUSTRIAL BLVD. 802
PARRY SOUND, ONTARIO
CANADA P2A 2W8

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

DATE *Am*

SAMPLE DIRECTORY/NUMBER: DATA5 /226

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15757

START 11:02:36 06/28/91

SUBMITTER: # 39

REPT 11:18:33 06/28/91

OPERATOR: KM

TOT RUN TIME 0:07:25

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

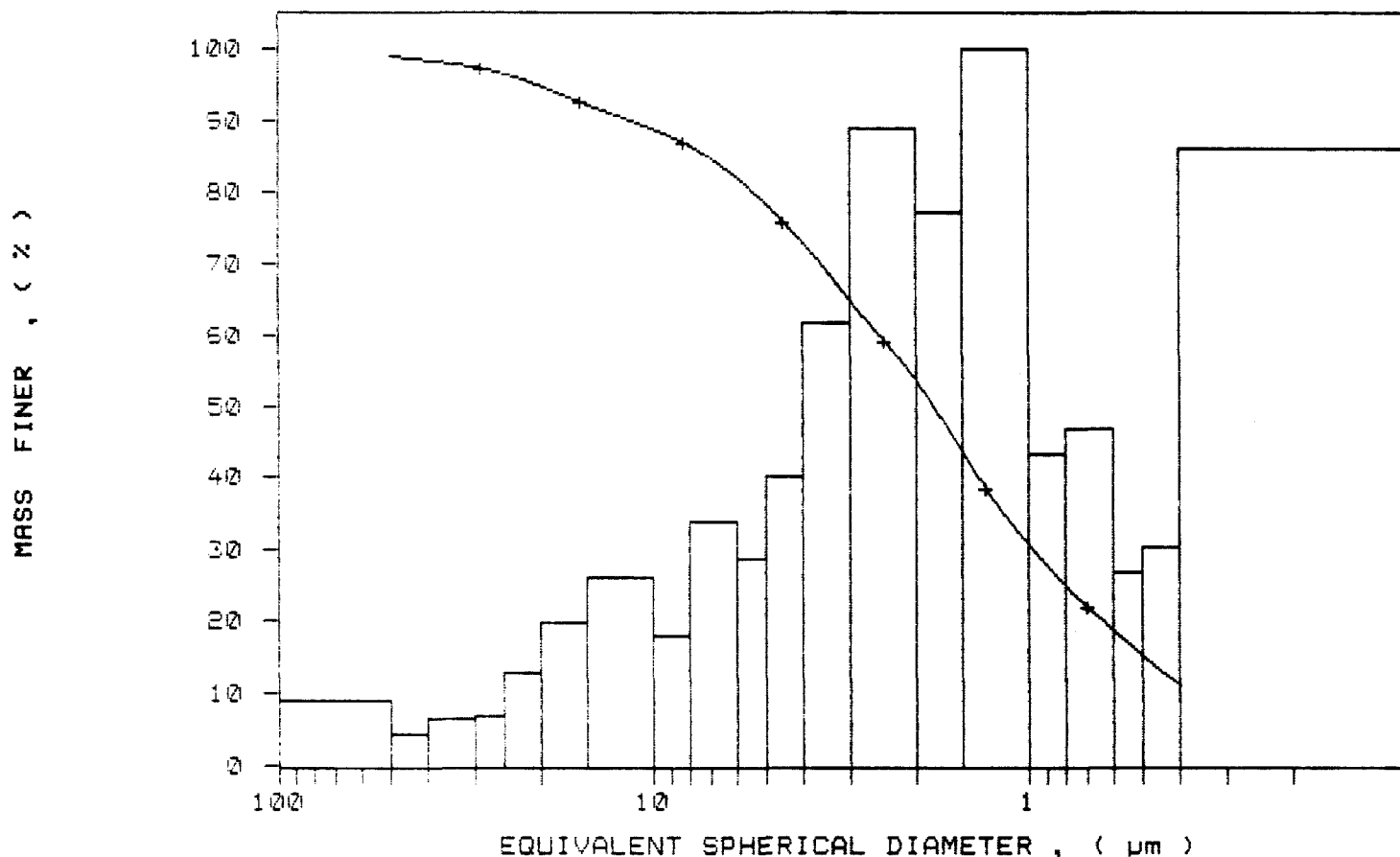
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.9 deg C RUN TYPE: High Speed

LIQ VISC: 0.7257 cp

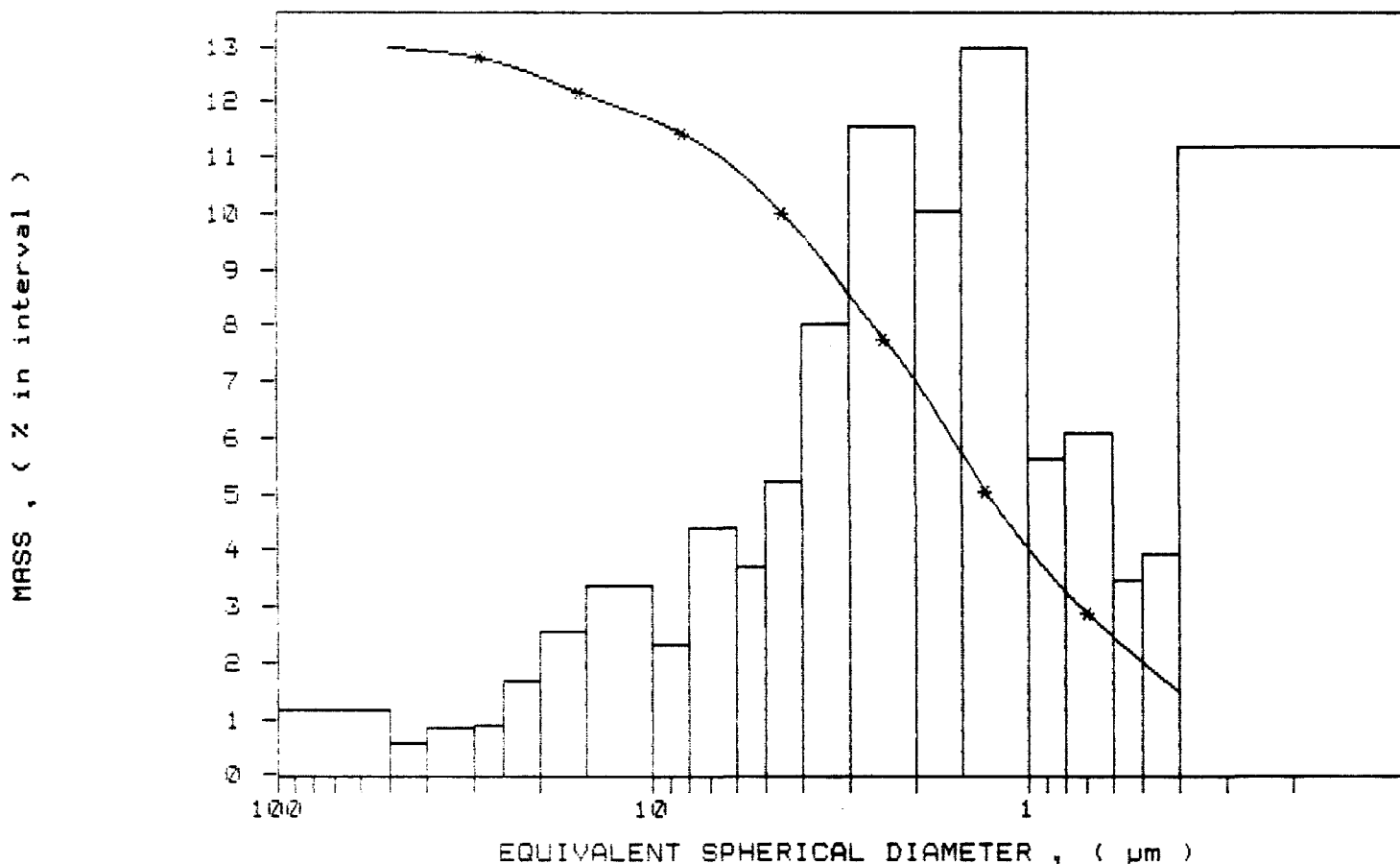
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /226
 SAMPLE ID: Hole D 88-18 # 15757
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.8 deg C

UNIT NUMBER: 1
 START 11:02:36 06/28/91
 REPT 11:18:33 06/28/91
 TOT RUN TIME 0:07:25
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7257 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /227
 SAMPLE ID: Hole D 88-18 # 15758
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:14:23 06/28/91
 REPT 12:30:33 06/28/91
 TOT RUN TIME 0:07:14
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7263 cp

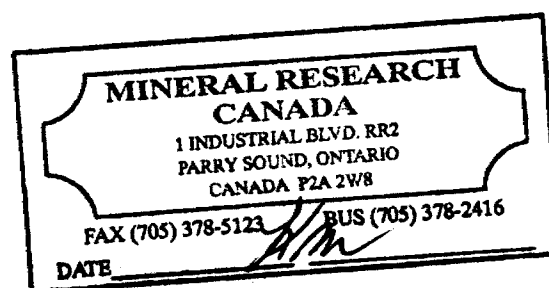
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.11 μ m MODAL DIAMETER: 2.52 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.2	2.8
40.00	97.9	-0.7
30.00	96.9	0.9
25.00	95.1	1.8
20.00	92.9	2.2
15.00	90.1	2.8
10.00	85.0	5.1
8.00	81.2	3.8
6.00	75.0	6.2
5.00	71.3	3.7
4.00	66.2	5.1
3.00	58.9	7.3
2.00	46.7	10.1
1.50	42.2	6.5
1.00	32.8	9.5
0.80	27.7	5.1
0.60	21.7	6.0
0.50	18.6	3.1
0.40	15.2	3.4



SAMPLE DIRECTORY/NUMBER: DATAS /227

SAMPLE ID: Hole D 88-18 # 15758

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 12:14:23 06/28/91

REPT 12:30:33 06/28/91

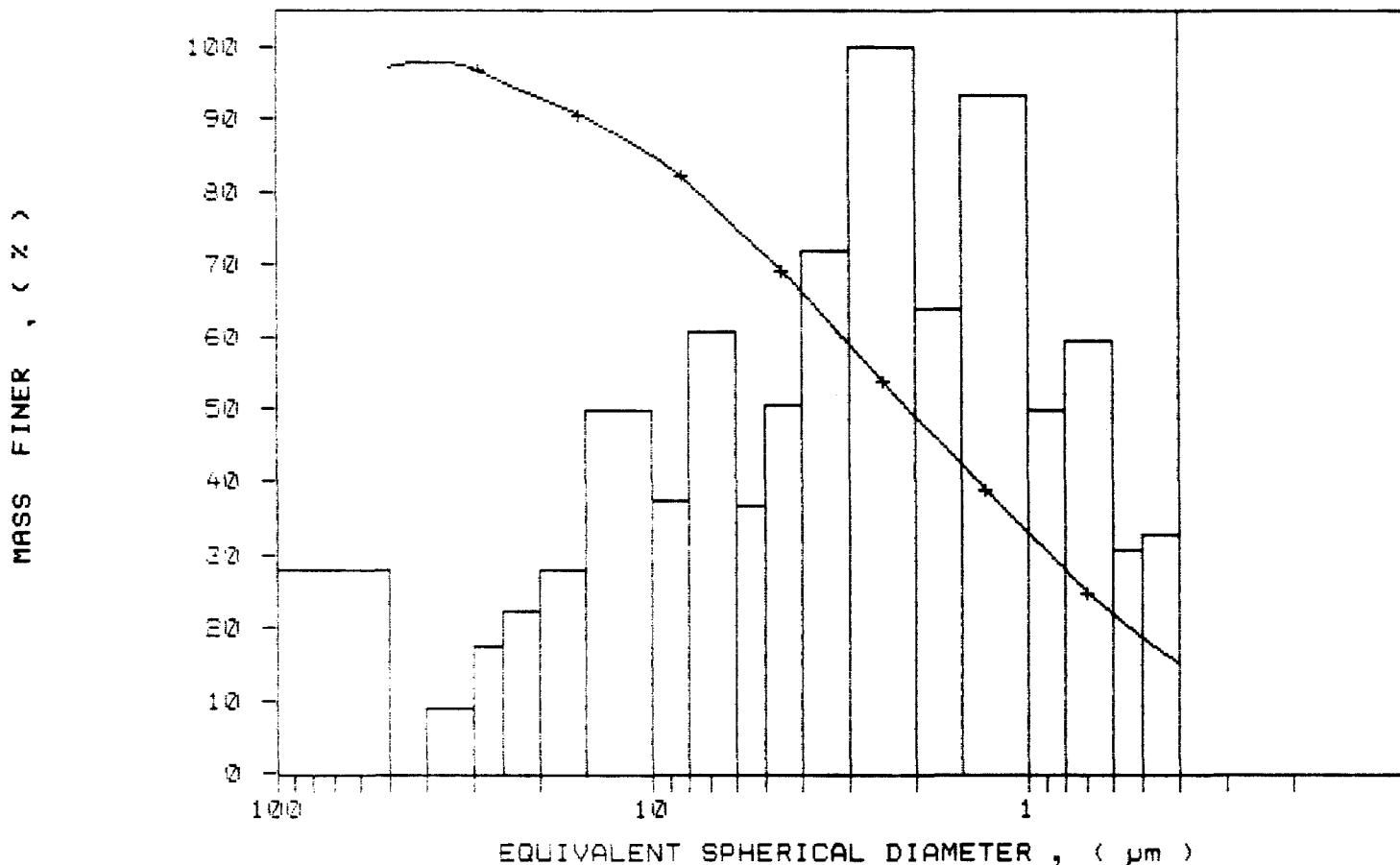
TOT RUN TIME 0:07:14

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7263 cp

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



SAMPLE DIRECTORY/NUMBER: DATAS /227

SAMPLE ID: Hole D 88-18 # 15758

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 12:14:23 06/28/91

REPT 12:30:33 06/28/91

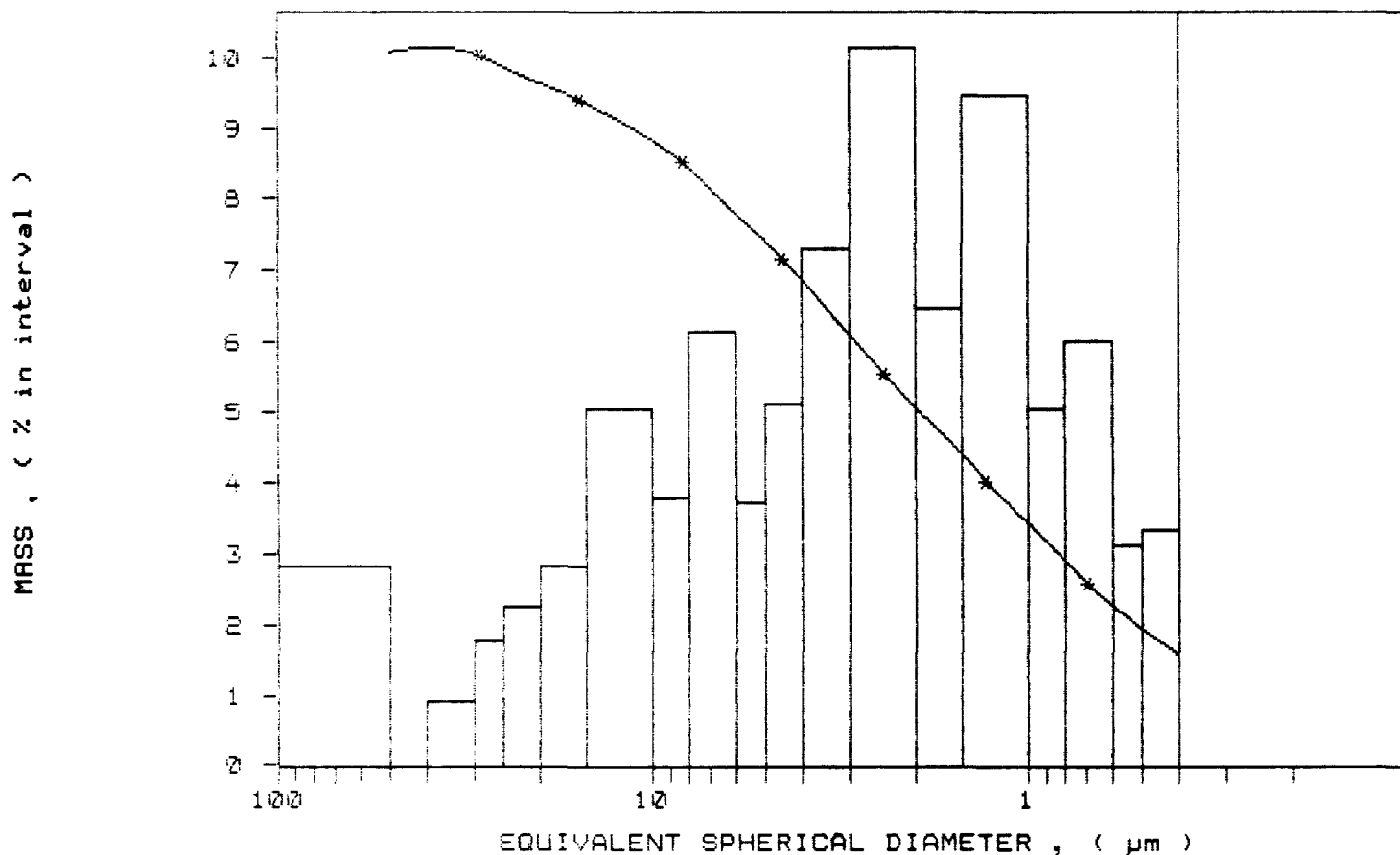
TOT RUN TIME 0:07:14

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7263 cp

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



SediGraph 5100 V2.03

SAMPLE DIRECTORY/NUMBER: DATAS /228
 SAMPLE ID: Hole D 88-18 # 15759
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:32:27 06/28/91
 REPR 12:44:08 06/28/91
 TOT RUN TIME 0:07:11
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7265 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.03 μ m

MODAL DIAMETER: 1.21 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.0	-0.3
40.00	98.4	1.8
30.00	96.1	2.3
25.00	93.8	2.3
20.00	90.6	3.2
15.00	86.6	4.0
10.00	80.8	5.8
8.00	77.2	3.6
6.00	71.8	5.5
5.00	68.1	3.7
4.00	63.5	4.6
3.00	57.2	6.3
2.00	49.8	7.5
1.50	44.2	5.5
1.00	34.2	10.0
0.80	29.5	4.7
0.60	23.6	5.9
0.50	20.2	3.5
0.40	15.1	5.1

**MINERAL RESEARCH
CANADA**

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

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

DATE *Jim*

SAMPLE DIRECTORY/NUMBER: DATA5 /228

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15759

START 12:32:27 06/28/91

SUBMITTER: # 39

REPRT 12:44:08 06/28/91

OPERATOR: KM

TOT RUN TIME 0:07:11

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

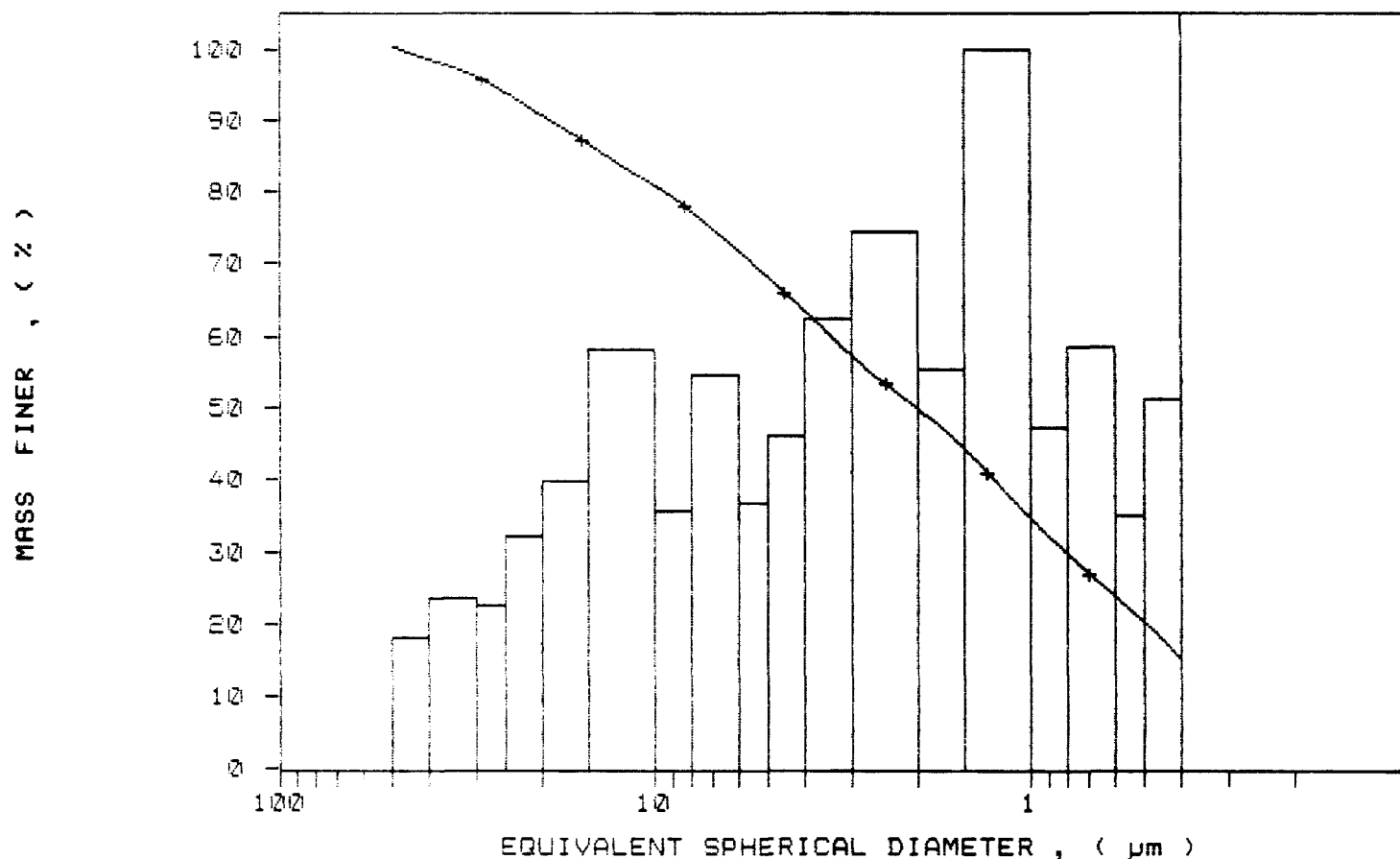
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7265 cp

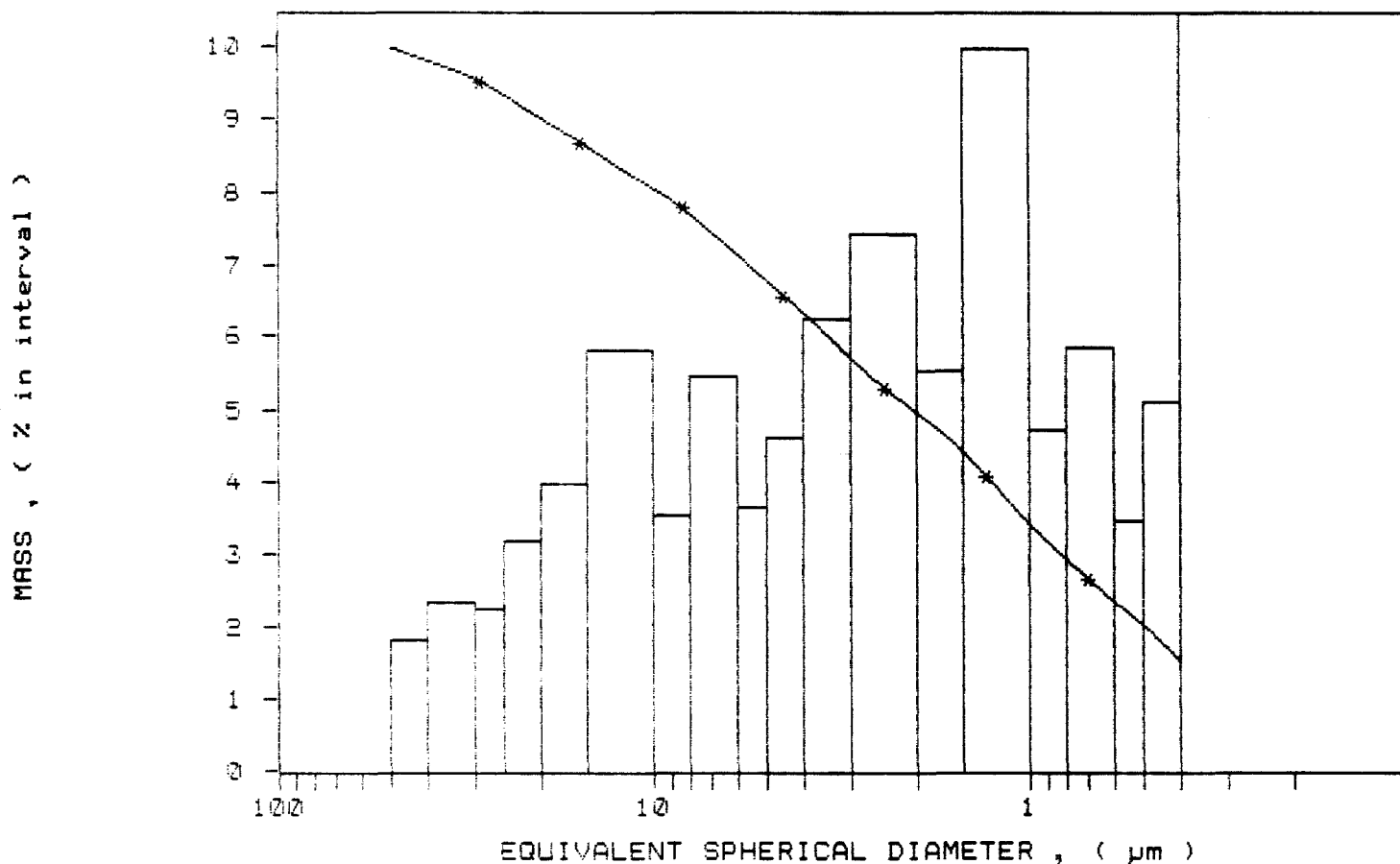
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /228
 SAMPLE ID: Hole D 88-18 # 15759
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 12:32:27 06/28/91
 REPT 12:44:08 06/28/91
 TOT RUN TIME 0:07:11
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7265 cp

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



SediGraph 5100 V2.03

Hole D 88-18 # 15760

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /229
 SAMPLE ID: Hole D 88-18 # 15760
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 12:58:56 06/28/91
 REPR 13:14:33 06/28/91
 TOT RUN TIME 0:07:03
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7267 cp

RUN TYPE: High Speed

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.93 μ m

MASS DISTRIBUTION

MODAL DIAMETER: 3.68 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.1	-1.1
40.00	98.6	2.3
30.00	97.4	1.4
25.00	95.6	1.6
20.00	92.9	2.7
15.00	88.6	4.3
10.00	81.7	7.0
8.00	78.6	3.1
6.00	73.1	5.5
5.00	69.1	4.0
4.00	64.2	4.9
3.00	57.6	6.4
2.00	50.6	7.2
1.50	45.6	4.7
1.00	38.4	7.4
0.80	35.6	3.4
0.60	30.5	4.6
0.50	27.2	3.2
0.40	23.2	4.2

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5123 BUS (705) 378-2416
 DATE *DM*

SAMPLE DIRECTORY/NUMBER: DATA5 /229

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15760

START 12:58:56 06/28/91

SUBMITTER: # 99

REPRT 13:14:33 06/28/91

OPERATOR: KM

TOT RUN TIME 0:07:03

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

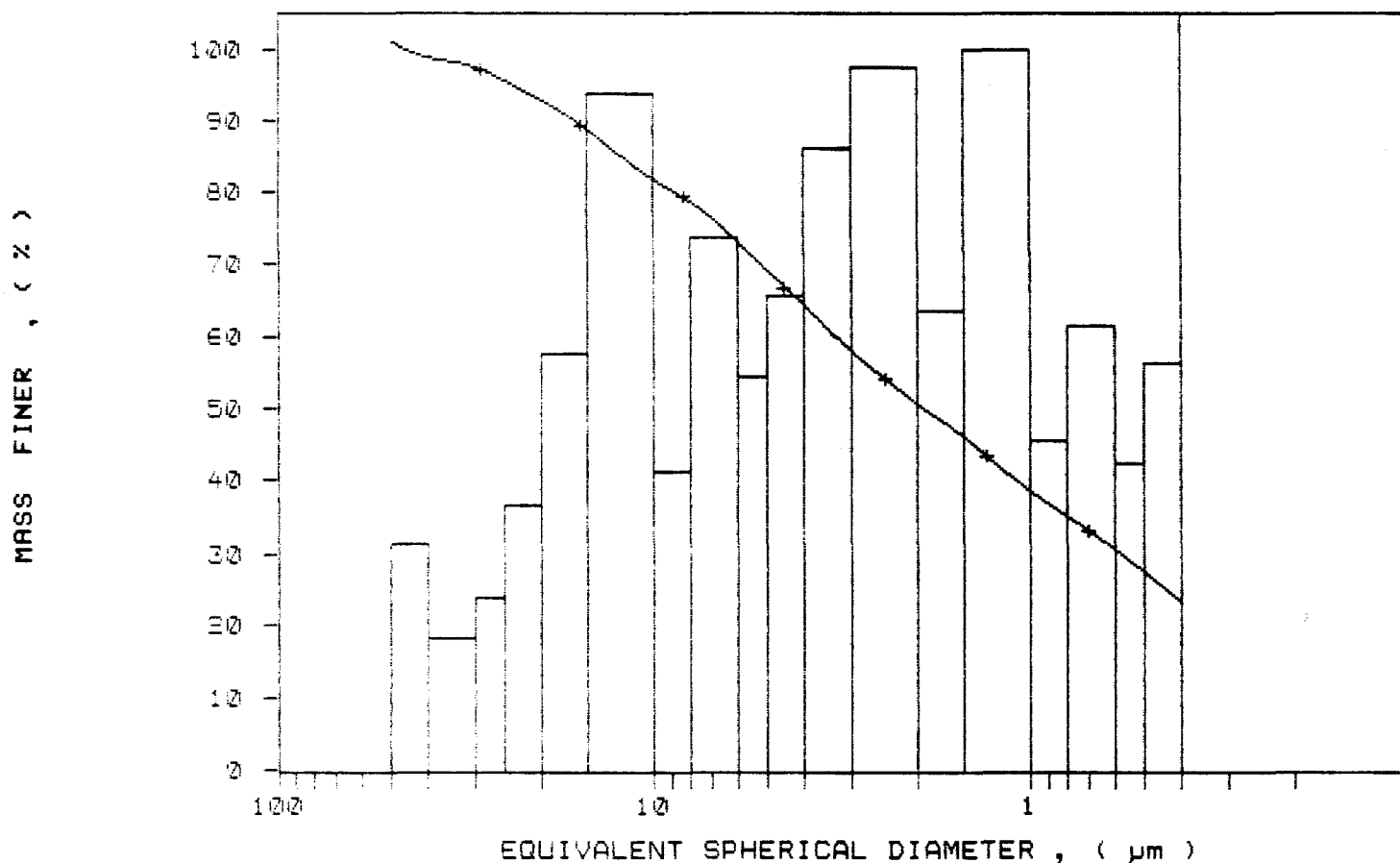
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7267 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /229

SAMPLE ID: Hole D 88-18 # 15760

SUBMITTER: # 89

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 12:58:56 06/28/91

REPT 13:14:33 06/28/91

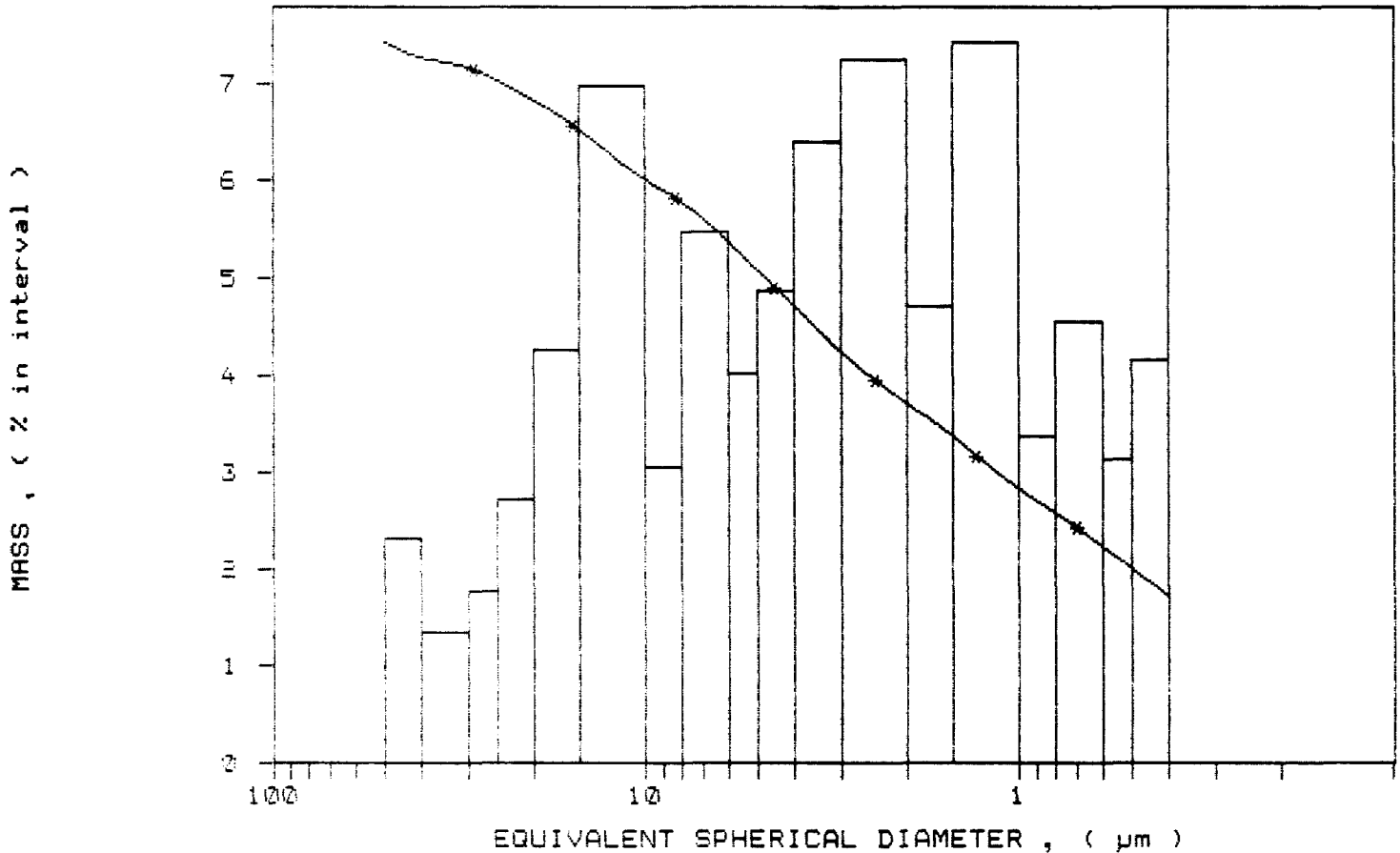
TOT RUN TIME 0:07:03

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7267 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /230
 SAMP LE ID: Hole D 88-18 # 15761
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C
 BASELINE/FULL SCALE: 0/ 0 kilocounts/sec
 STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

UNIT NUMBER: 1
 START 11:10:04 07/10/97
 REPR T 09:00:59 09/15/97
 TOT RUN TIME 0:06:57
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7268 cp
 RUN TYPE: High Speed

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.41 μ m
 MASS DISTRIBUTION
 MODAL DIAMETER: 5.46 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.0	-0.0
40.00	100.7	-0.7
30.00	98.9	1.8
25.00	96.7	2.2
20.00	94.2	2.5
15.00	90.8	3.4
10.00	84.8	6.0
8.00	81.4	3.4
6.00	76.0	5.4
5.00	72.0	4.0
4.00	67.5	4.6
3.00	61.9	5.6
2.00	55.2	6.6
1.50	50.9	4.3
1.00	44.6	6.4
0.80	41.4	3.1
0.60	37.8	3.6
0.50	35.4	2.4
0.40	31.5	3.9

**MINERAL RESEARCH
CANADA**

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

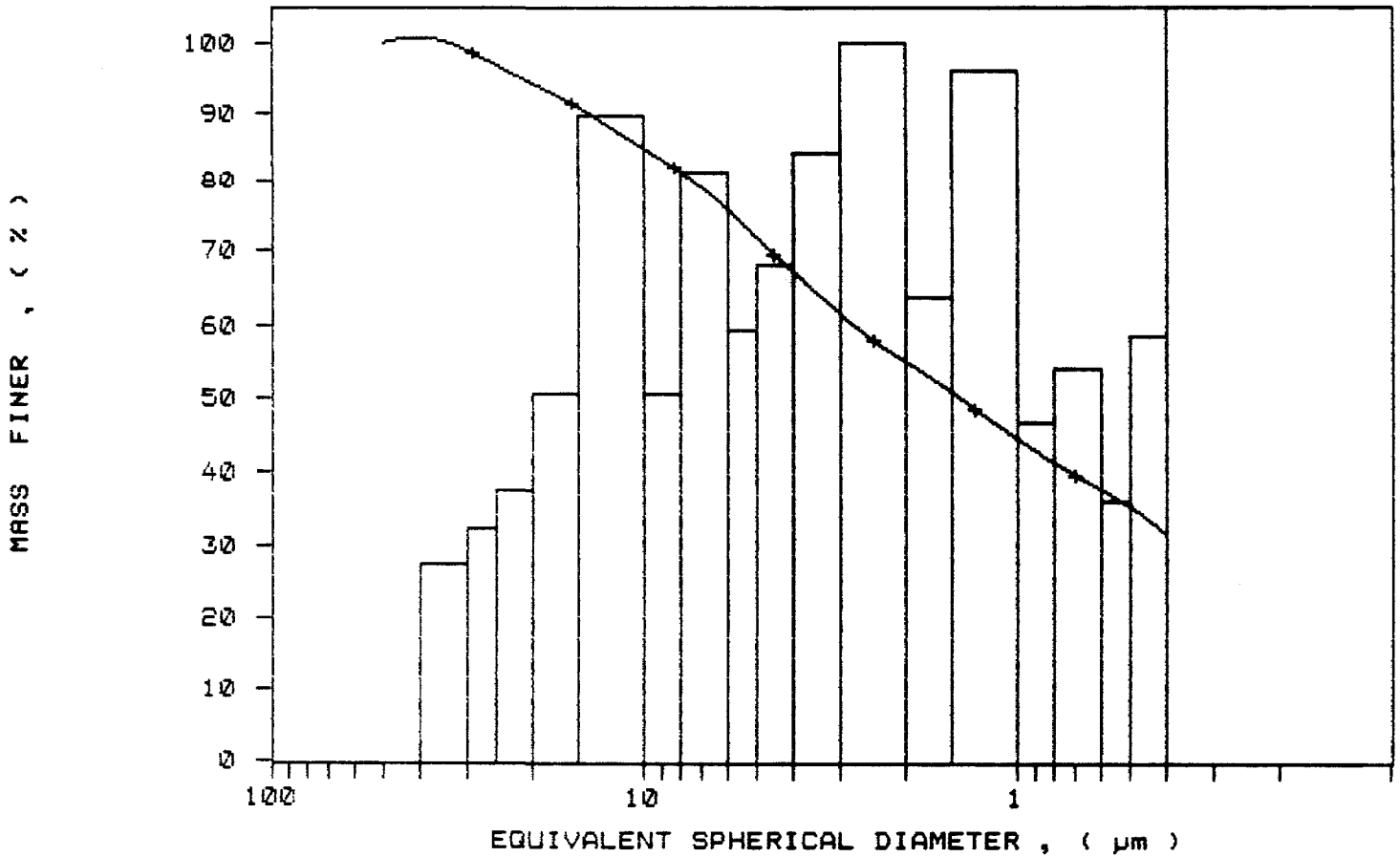
FAX (705) 378-5123 BUS (705) 378-2416

DATE *Jim*

SAMPLE DIRECTORY/NUMBER: DATA5 /230
SAMPLE ID: Hole D 88-18 # 15761
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C
BASELINE/FULL SCALE: 0/ 0 kilocounts/sec

UNIT NUMBER: 1
START 11:10:04 07/10/91
REPR 09:00:59 09/15/92
TOT RUN TIME 0:06:57
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7268 cp
RUN TYPE: High Speed

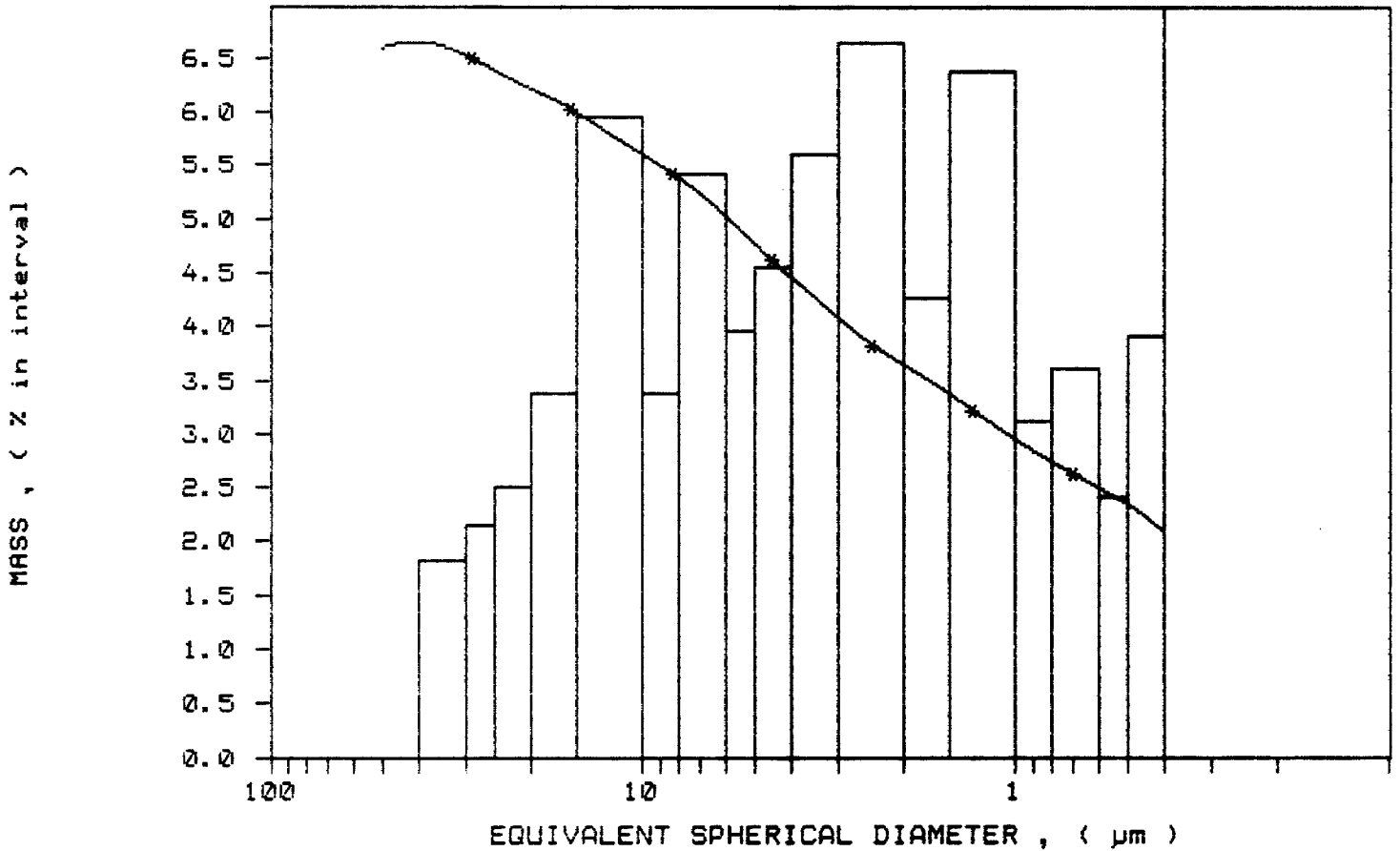
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /230
 SAMPLE ID: Hole D 88-18 # 15761
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C
 BASELINE/FULL SCALE: 0/ 0 kilocounts/sec

UNIT NUMBER: 1
 START 11:10:04 07/10/91
 REPR 09:00:59 09/15/92
 TOT RUN TIME 0:06:57
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7268 cp
 RUN TYPE: High Speed

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



SAMPLE DIRECTORY/NUMBER: DATAS /231
 SAMPLE ID: Hole D 88-18 # 15762
 SUBMITTER: # 39
 OPERATOR: RM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 11:39:06 07/10/91
 REPT 11:54:39 07/10/91
 TOT RUN TIME 0:06:58
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7266 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.45 μ m MASS DISTRIBUTION MODAL DIAMETER: 5.90 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.8	0.2
40.00	100.0	-0.2
30.00	98.9	1.1
25.00	97.8	1.6
20.00	95.1	2.1
15.00	91.4	3.8
10.00	85.8	5.6
8.00	82.1	3.7
6.00	78.5	3.6
5.00	72.7	5.8
4.00	68.4	4.3
3.00	62.6	5.8
2.00	55.3	7.3
1.50	50.6	4.7
1.00	44.3	6.3
0.80	40.2	4.0
0.60	35.1	5.1
0.50	32.2	2.9
0.40	30.2	2.1

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *RM*

SAMPLE DIRECTORY/NUMBER: DATA5 /291

SAMPLE ID: Hole D 88-18 # 15762

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: water

ANALYSIS TEMP: 24.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 11:39:06 07/10/91

REPT 11:54:39 07/10/91

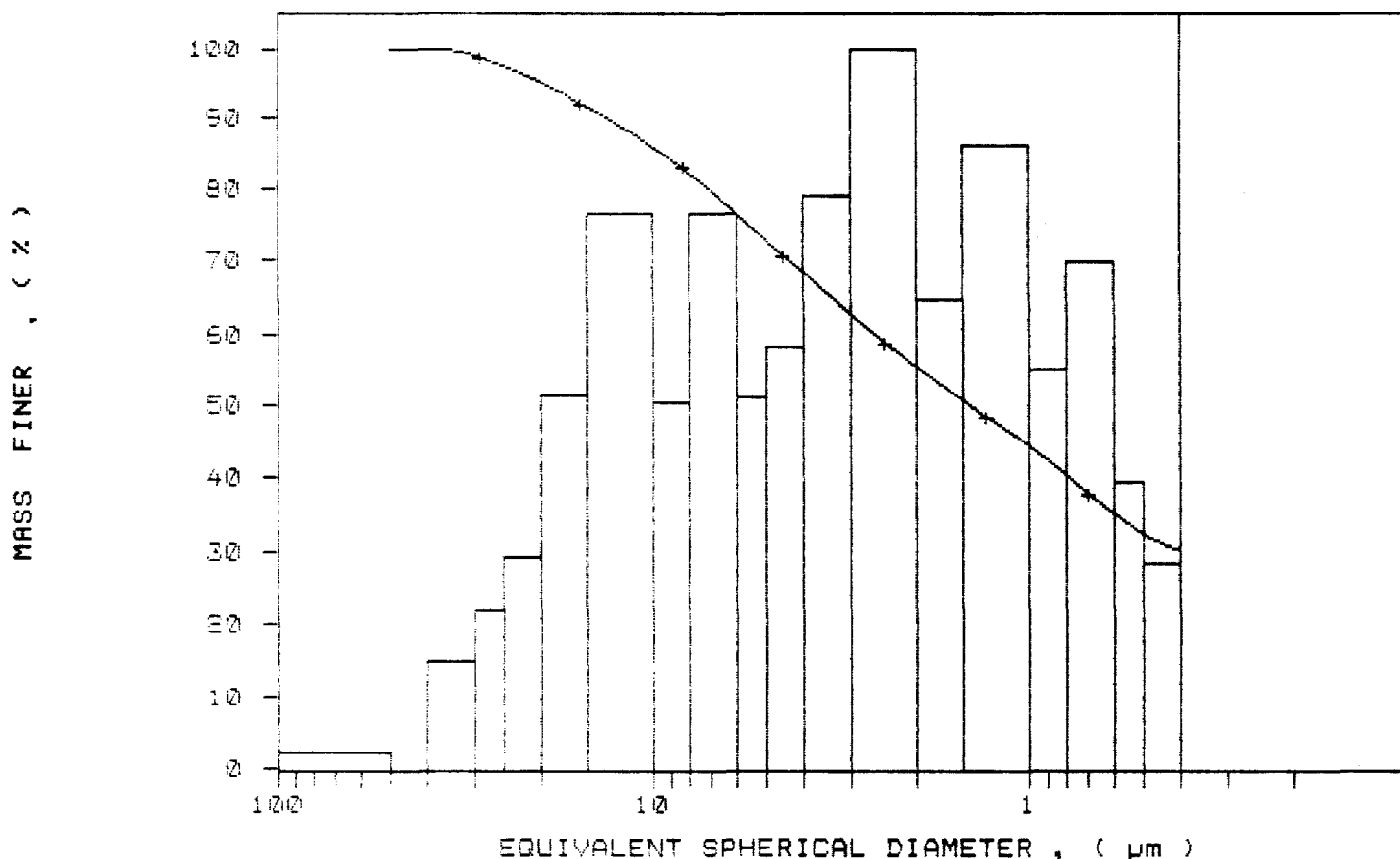
TOT RUN TIME 0:06:58

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7266 cp

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

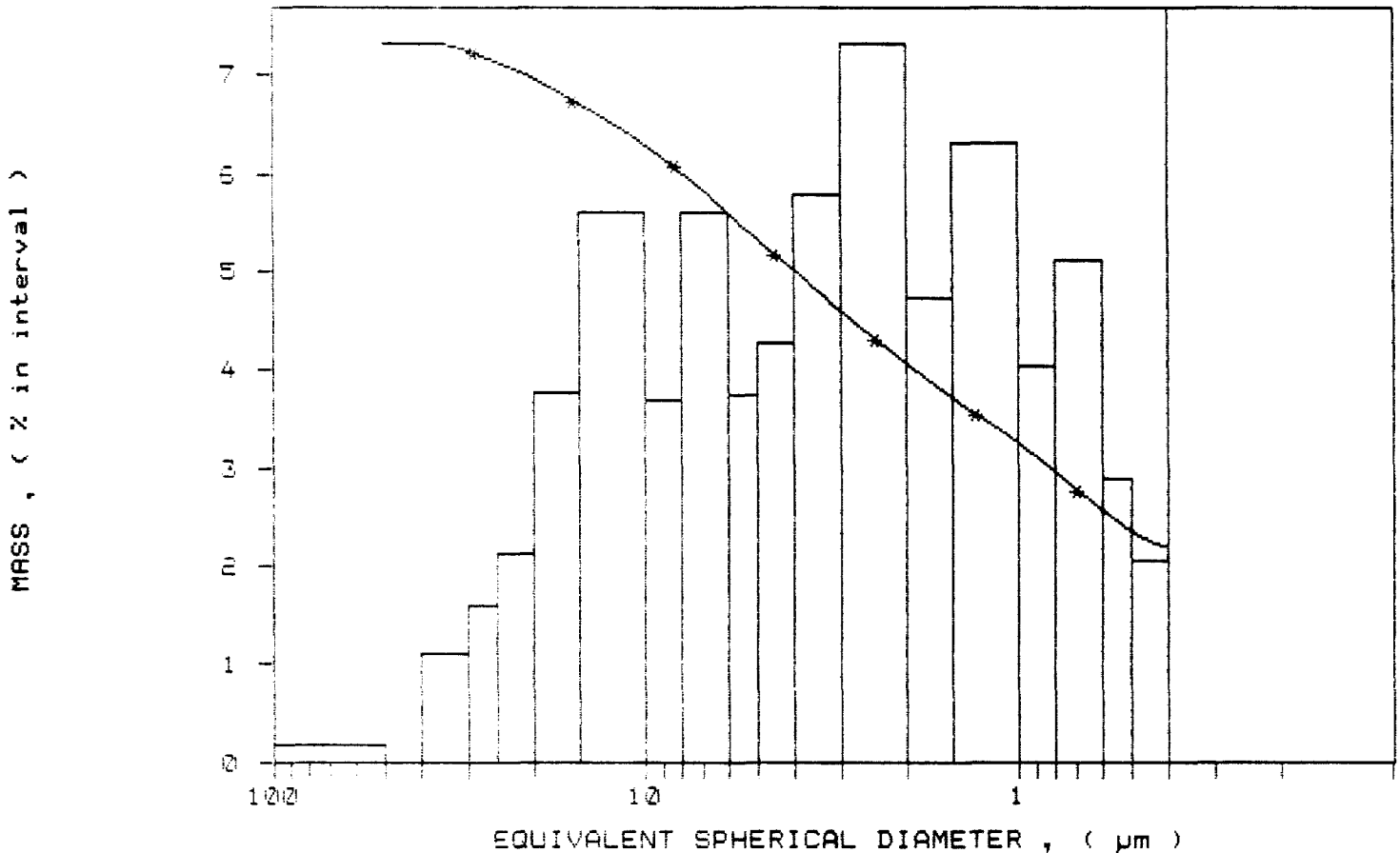


SAMPLE DIRECTORY/NUMBER: DATA5 /231
 SAMPLE ID: Hole D 88-18 # 15762
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 11:39:06 07/10/91
 REPT 11:54:39 07/10/91
 TOT RUN TIME 0:06:58
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7266 cp

MASS POPULATION VS. DIAMETER

* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole D 88-18 # 15763

SediGraph 5100 V2.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /232
 SAMPLE ID: Hole D 88-18 # 15763
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:21:23 07/10/91
 REPR 12:29:14 07/10/91
 TOT RUN TIME 0:07:32
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7265 cp

STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: NOT AVAILABLE

MODAL DIAMETER: 25.12 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	165.4	-65.4
40.00	114.7	50.7
30.00	71.0	43.7
25.00	-54.5	125.4
20.00	-165.9	131.4
15.00	-197.3	11.4
10.00	-111.5	-65.6
8.00	-59.0	-52.5
6.00	-114.5	55.5
5.00	-106.9	-7.6
4.00	-123.8	16.9
3.00	-191.9	68.2
2.00	-28.5	-163.5
1.50	21.7	-60.2
1.00	14.6	17.2
0.80	27.7	-13.1
0.60	59.9	-32.3
0.50	70.8	-10.9
0.40	79.5	-8.7

**MINERAL RESEARCH
 CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5123
 BUS (705) 378-2416
 DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /232

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15763

START 12:21:23 07/10/91

SUBMITTER: # 39

REPT 12:29:14 07/10/91

OPERATOR: KM

TOT RUN TIME 0:07:32

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

LIQUID TYPE: Water

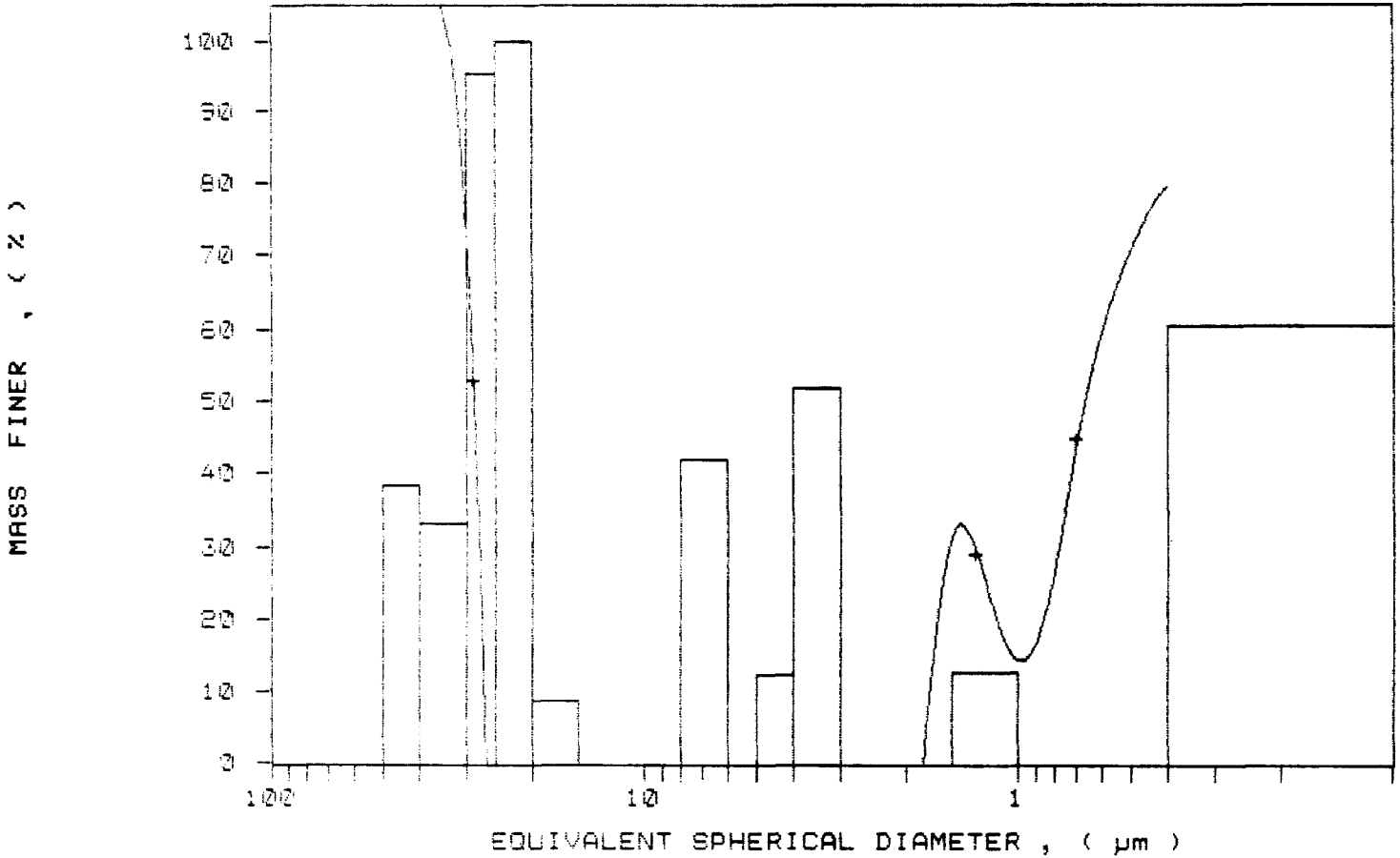
LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

LIQ VISC: 0.7265 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /232

SAMPLE ID: Hole D 88-18 # 15763

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 12:21:23 07/10/91

REPT 12:29:14 07/10/91

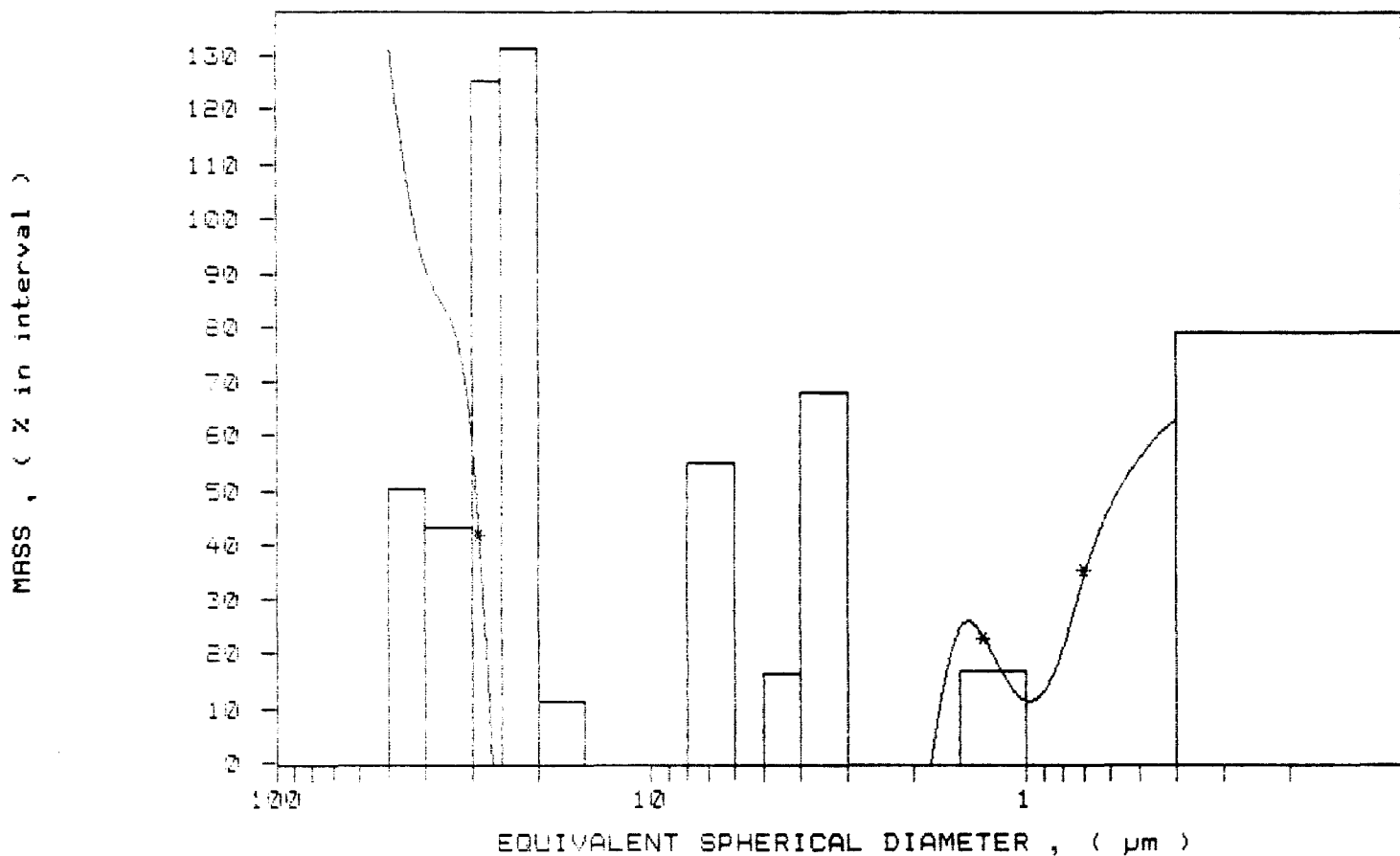
TOT RUN TIME 0:07:32

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7265 cp

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



SediGraph 5100 V2.03

Hole D 88-18 # 15764

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAS /233
 SAMPLE ID: Hole D 88-18 # 15764
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.8 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:45:06 07/10/91
 REPR 13:01:06 07/10/91
 TOT RUN TIME 0:07:03
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7261 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 0.98 μ m MASS DISTRIBUTION

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.4	3.6
40.00	98.2	-1.8
30.00	97.0	1.2
25.00	95.0	2.0
20.00	92.3	2.7
15.00	89.2	3.1
10.00	84.4	4.9
8.00	81.8	2.6
6.00	77.1	4.7
5.00	74.2	2.9
4.00	70.3	3.9
3.00	66.3	4.0
2.00	60.3	6.1
1.50	56.0	4.2
1.00	50.2	5.8
0.80	46.7	3.5
0.60	41.6	5.1
0.50	37.6	4.0
0.40	32.1	5.5

**MINERAL RESEARCH
CANADA**

1 INDUSTRIAL BLVD RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8

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

DATE *Jim*

SAMPLE DIRECTORY/NUMBER: DATA5 /233

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15764

START 12:45:06 07/10/91

SUBMITTER: # 99

REPT 13:01:06 07/10/91

OPERATOR: KM

TOT RUN TIME 0:07:03

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

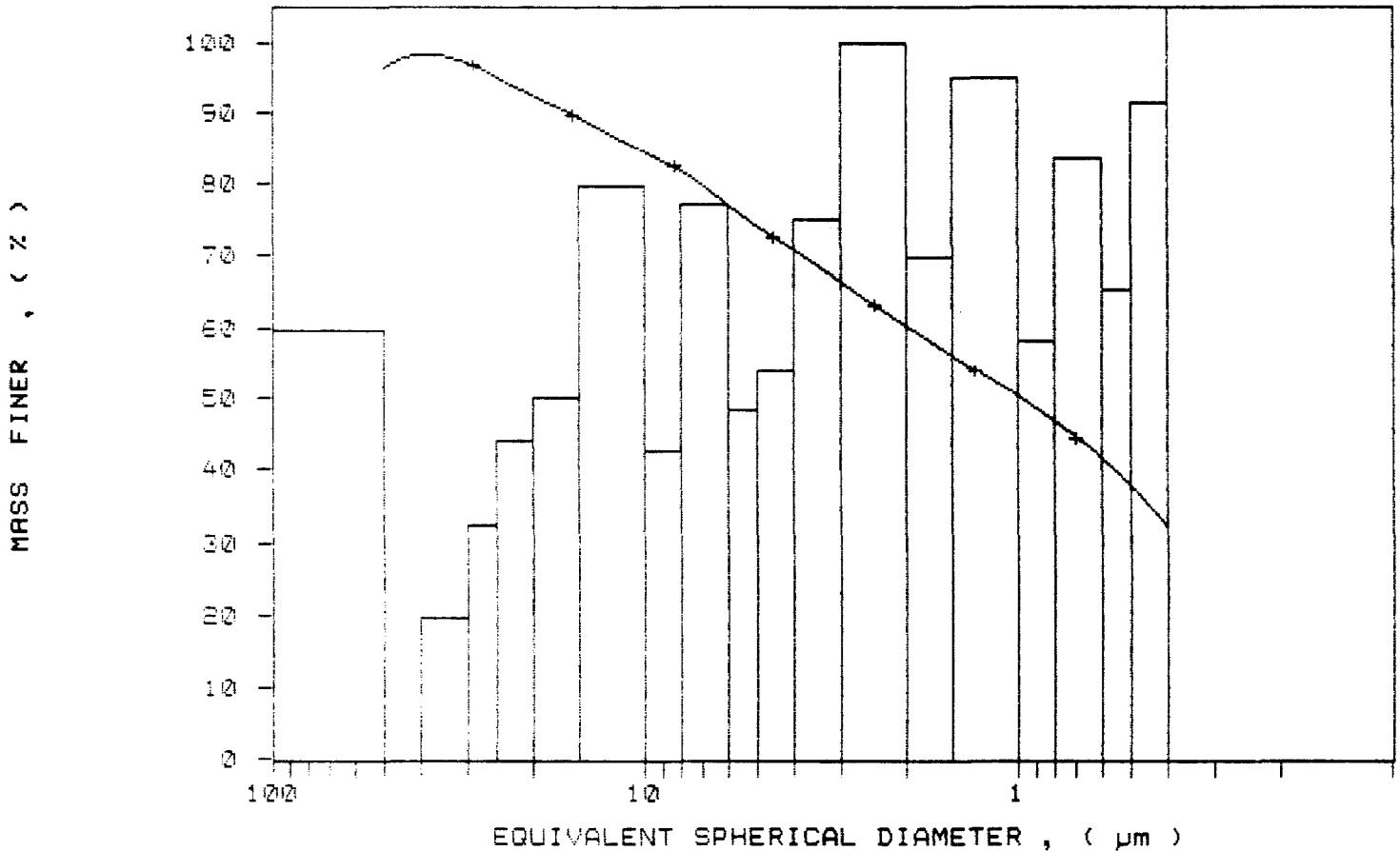
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.8 deg C RUN TYPE: High Speed

LIQ VISC: 0.7261 cp

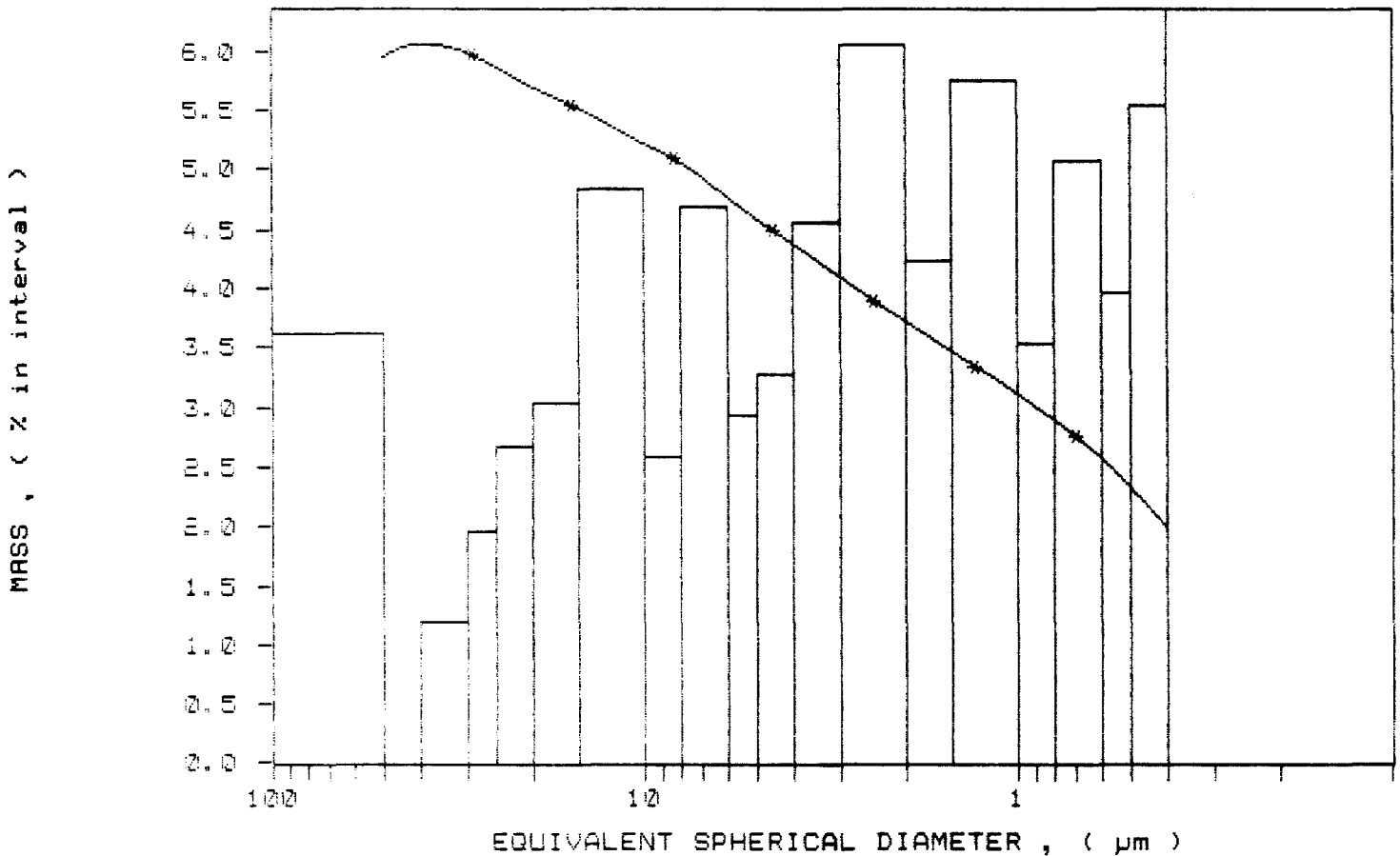
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /233
 SAMPLE ID: Hole D 88-18 # 15764
 SUBMITTER: # 99
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.2 deg C

UNIT NUMBER: 1
 START 12:45:06 07/10/91
 REPR 13:01:06 07/10/91
 TOT RUN TIME 0:07:03
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7261 cp

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



SediGraph 5100 V2.03

Hole D 88-18 # 15765

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /234
 SAMPLE ID: Hole D 88-18 # 15765
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.3 deg C

UNIT NUMBER: 1
 START 13:03:13 07/10/91
 REPT 13:19:00 07/10/91
 TOT RUN TIME 0:07:11
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7250 cp

RUN TYPE: High Speed

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.31 μ m

MODAL DIAMETER: 4.26 μ m

MASS DISTRIBUTION

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.0	2.0
40.00	99.1	-0.1
30.00	97.9	0.2
25.00	96.8	1.1
20.00	98.9	2.9
15.00	90.8	8.2
10.00	66.5	4.3
8.00	62.6	3.9
6.00	78.0	4.6
5.00	75.0	3.0
4.00	70.2	4.8
3.00	64.6	5.6
2.00	57.9	6.7
1.50	52.5	5.3
1.00	45.4	7.1
0.80	41.5	3.9
0.60	36.8	4.7
0.50	34.2	2.6
0.40	30.2	4.0

**MINERAL RESEARCH
CANADA**

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

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

DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /234

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15765

START 13:03:13 07/10/91

SUBMITTER: # 39

REPR 13:19:00 07/10/91

OPERATOR: KM

TOT RUN TIME 0:07:11

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

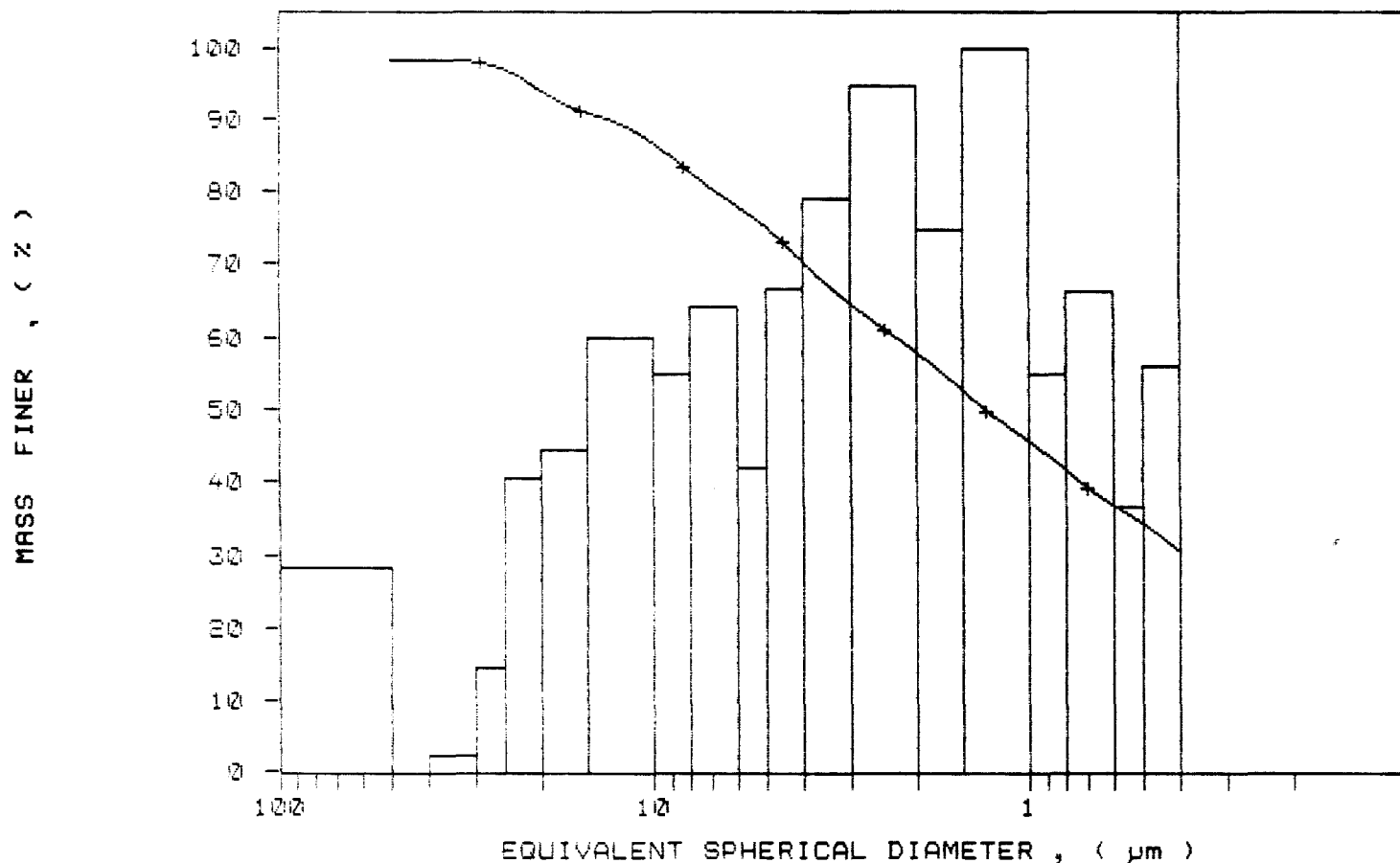
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.8 deg C RUN TYPE: High Speed

LIQ VISC: 0.7260 cp

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

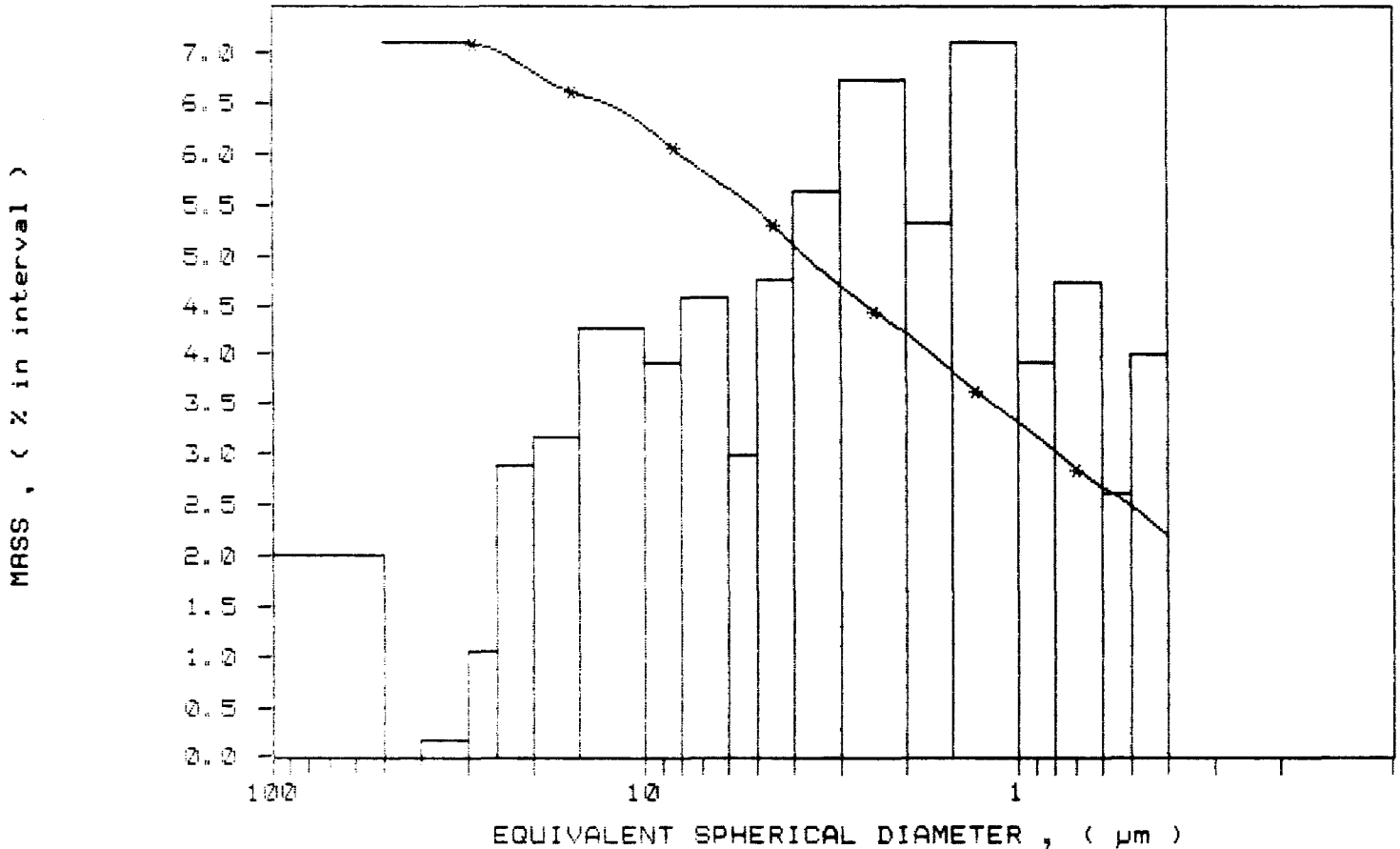


SAMPLE DIRECTORY/NUMBER: DATA5 /234
 SAMPLE ID: Hole D 88-18 # 15765
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.8 deg C

UNIT NUMBER: 1
 START 13:03:13 07/10/91
 REPT 13:19:00 07/10/91
 TOT RUN TIME 0:07:11
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7260 cp

MASS POPULATION VS. DIAMETER

* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /235
 SAMPLE ID: Hole D 88-18 # 15766
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 13:36:07 07/10/91
 REPT 13:51:54 07/10/91
 TOT RUN TIME 0:07:12
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7263 cp

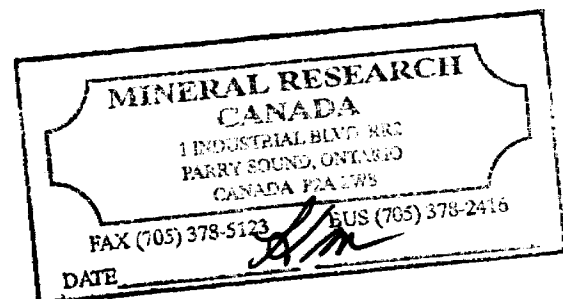
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.70 μ m MODAL DIAMETER: 3.16 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.1	3.9
40.00	95.8	0.4
30.00	93.5	2.3
25.00	91.5	2.0
20.00	88.7	2.8
15.00	85.0	3.7
10.00	79.7	5.4
8.00	76.3	3.3
6.00	71.5	4.8
5.00	67.4	4.1
4.00	61.3	6.2
3.00	53.0	8.3
2.00	42.7	10.3
1.50	35.0	6.9
1.00	26.8	9.0
0.80	22.5	4.3
0.60	18.5	4.0
0.50	16.2	2.3
0.40	13.0	3.2

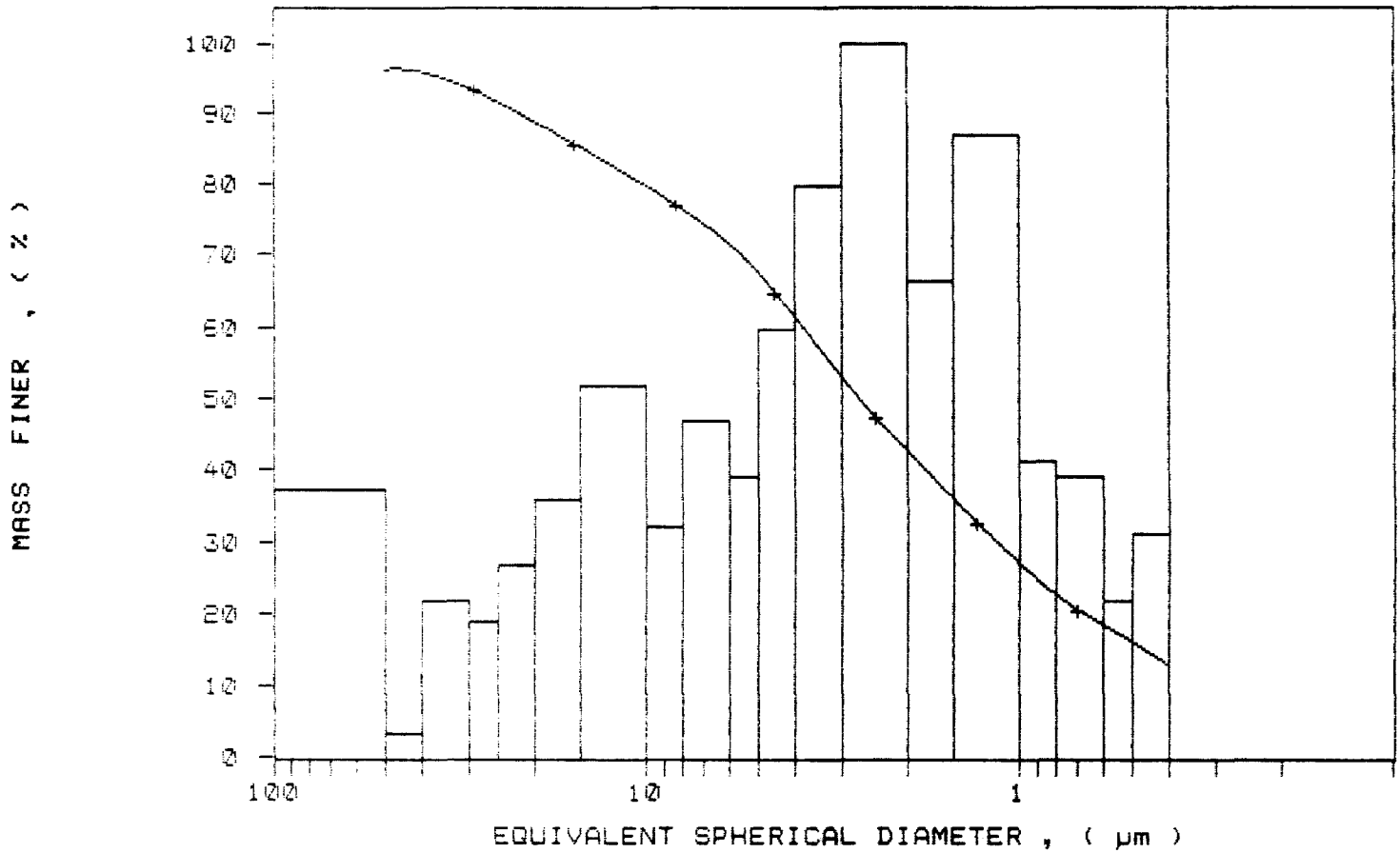


SAMPLE DIRECTORY/NUMBER: DATA5 /295
 SAMPLE ID: Hole D 88-18 # 15766
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 13:36:07 07/10/91
 REPRT 13:51:54 07/10/91
 TOT RUN TIME 0:07:12
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7263 cp

RUN TYPE: High Speed

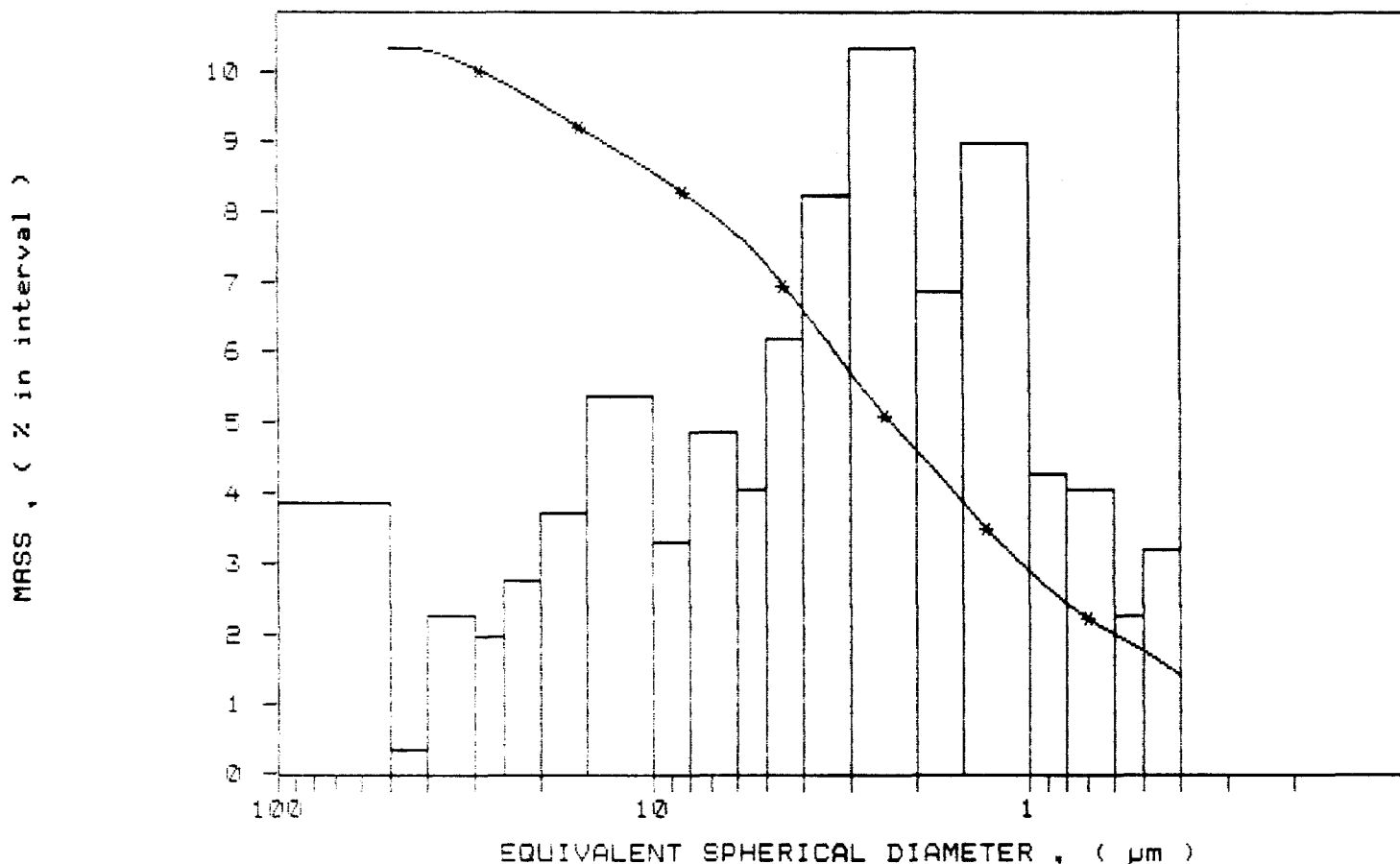
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /285
 SAMPLE ID: Hole D 88-18 # 15766
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 13:36:07 07/10/91
 REPR 13:51:54 07/10/91
 TOT RUN TIME 0:07:12
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7263 cp

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



SediGraph 5100 V2.03

Hole D 88-18 # 15767

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /236
 SAMPLE ID: Hole D 88-18 # 15767
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 15:06:08 07/10/91
 REPR 15:22:19 07/10/91
 TOT RUN TIME 0:07:36
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7267 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.19 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.9	1.1
40.00	98.5	0.7
30.00	96.4	1.8
25.00	95.1	1.3
20.00	93.4	1.7
15.00	91.1	2.4
10.00	86.9	4.2
8.00	84.1	2.8
6.00	79.5	4.6
5.00	76.3	3.2
4.00	72.0	4.3
3.00	66.1	5.9
2.00	58.9	7.3
1.50	53.2	5.1
1.00	47.0	6.2
0.80	42.9	4.1
0.60	37.5	5.4
0.50	33.9	6.6
0.40	28.9	5.0

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

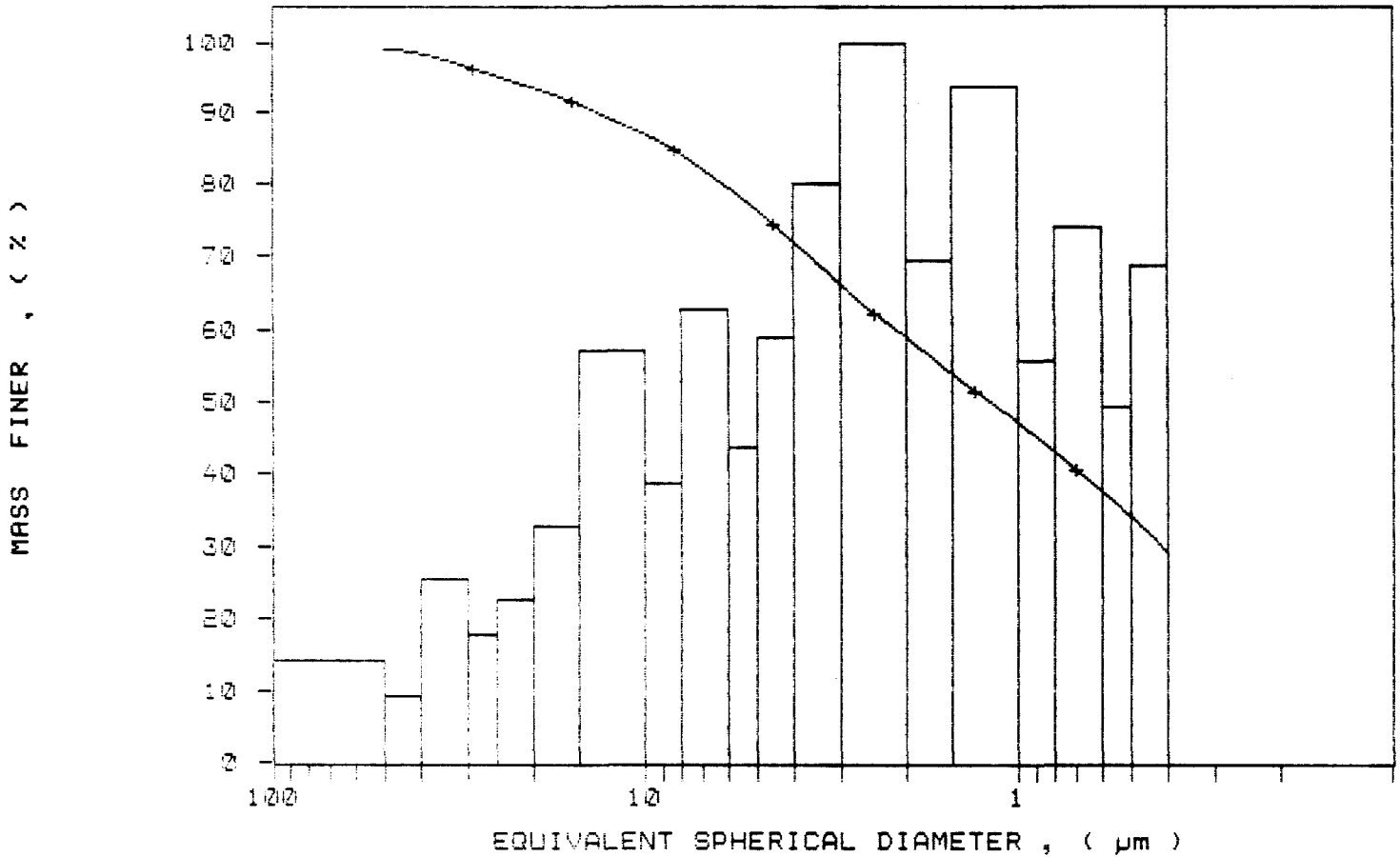
FAX (705) 378-5123 BUS (705) 378-2416
 DATE *dm*

SAMPLE DIRECTORY/NUMBER: DATA5 /236
SAMPLE ID: Hole D 88-18 # 15767
SUBMITTER: # 89
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 15:06:08 07/10/91
REPT 15:22:19 07/10/91
TOT RUN TIME 0:07:36
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7267 cp

RUN TYPE: High Speed

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



SAMPLE DIRECTORY/NUMBER: DATAS /236

SAMPLE ID: Hole D 88-18 # 15767

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 15:06:08 07/10/91

REPR 15:22:19 07/10/91

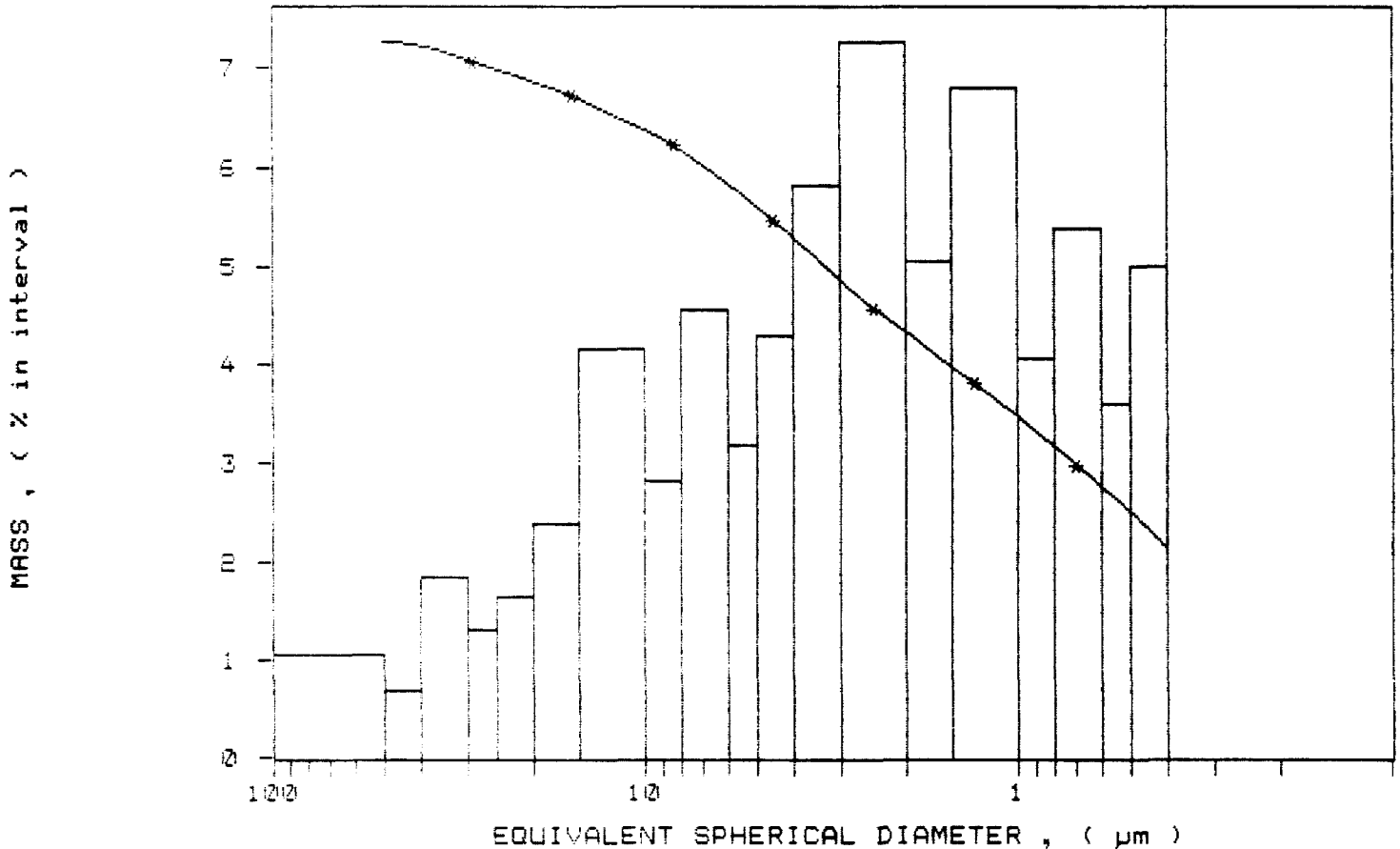
TOT RUN TIME 0:07:36

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7267 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /237
 SAMPLE ID: Hole D 88-18 # 15768
 SUBMITTER: # 39
 OPERATOR: Km
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 15:36:50 07/10/91
 REPT 15:49:04 07/10/91
 TOT RUN TIME 0:07:34
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7268 cp

STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.54 µm MODAL DIAMETER: 0.40 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.6	3.4
40.00	97.5	-0.9
30.00	96.5	1.0
25.00	94.8	1.7
20.00	91.9	2.9
15.00	88.0	3.9
10.00	81.7	6.4
8.00	78.3	3.4
6.00	75.1	5.2
5.00	69.7	5.4
4.00	55.5	4.2
3.00	50.5	5.0
2.00	34.8	6.2
1.50	49.5	4.8
1.00	45.6	6.9
0.80	39.0	3.6
0.60	34.5	4.5
0.50	31.1	3.3
0.40	26.1	5.0

**MINERAL RESEARCH
CANADA**

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

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

DATE *Am*

SAMPLE DIRECTORY/NUMBER: DATA5 /297

SAMPLE ID: Hole D 88-18 # 15768

SUBMITTER: # 35

OPERATOR: Km

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 24.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 15:36:50 07/10/91

REPRT 15:49:04 07/10/91

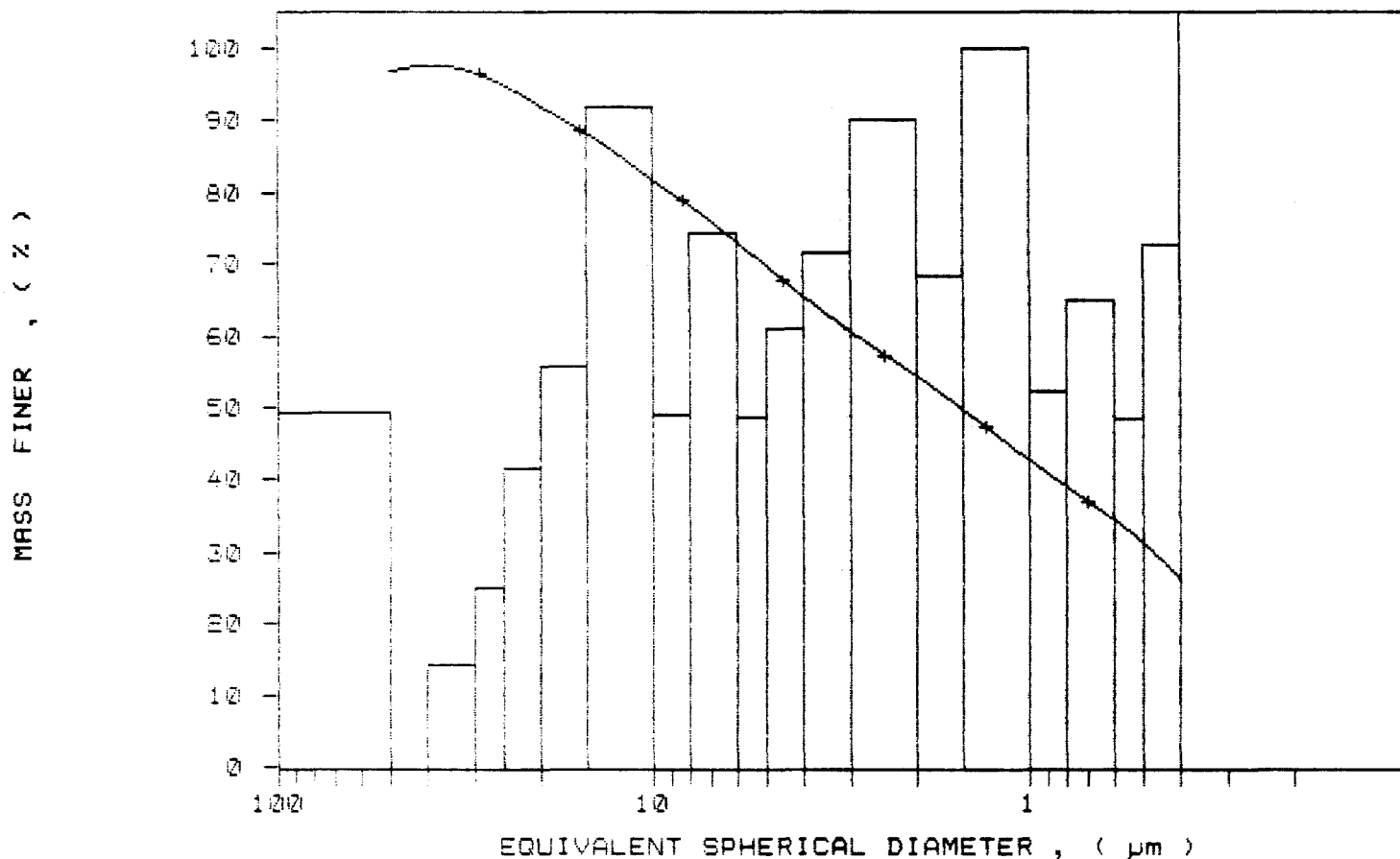
TOT RUN TIME 0:07:34

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7268 cp

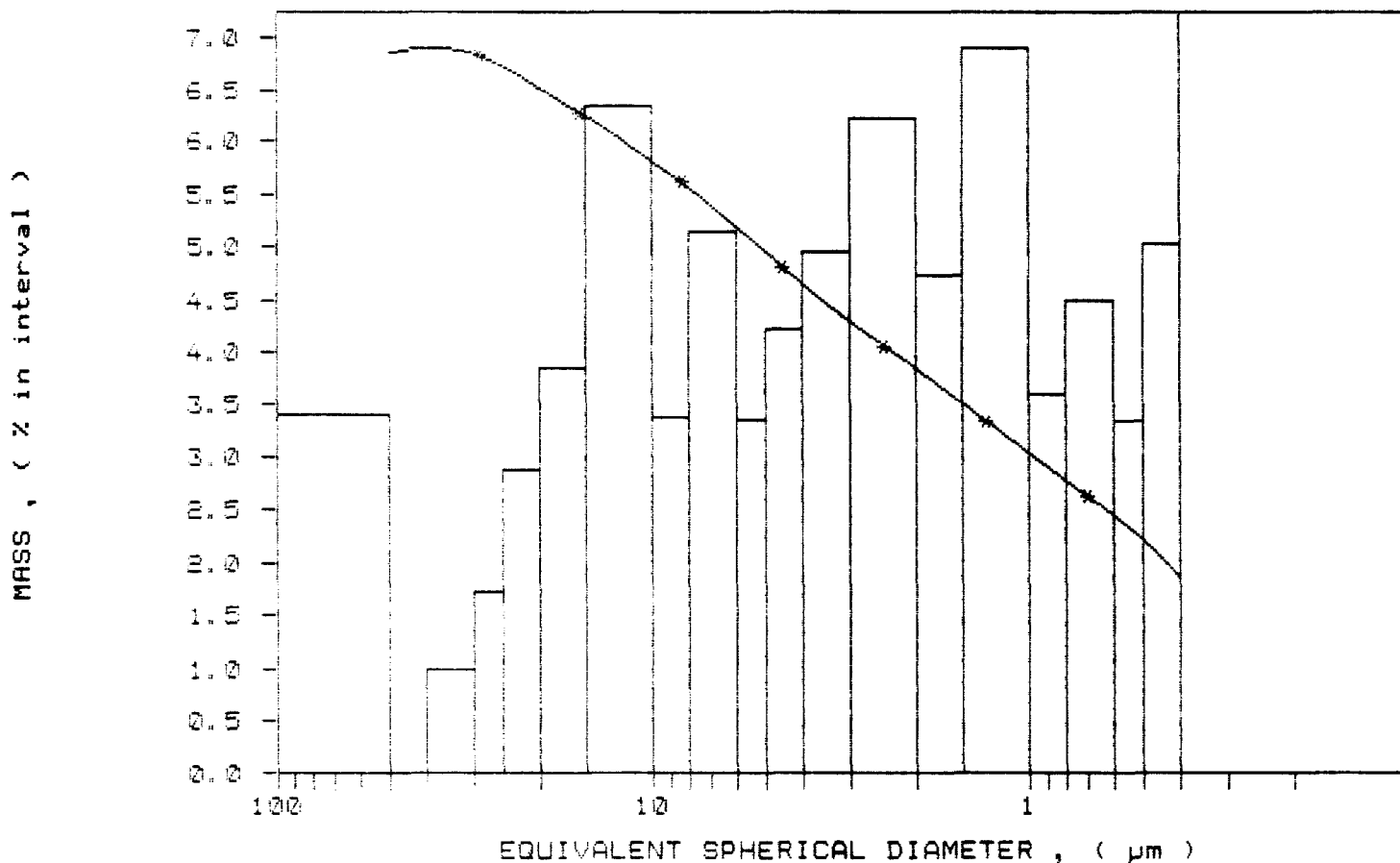
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /257
SAMPLE ID: Hole D 88-18 # 15768
SUBMITTER: # 39
OPERATOR: km
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 15:36:50 07/10/91
REFRT 15:49:04 07/10/91
TOT RUN TIME 0:07:34
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7268 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /238
 SAMPLE ID: Hole D 88-18 # 15769
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 15:57:19 07/10/91
 REPR 16:13:59 07/10/91
 TOT RUN TIME 0:07:05
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.00 μ m

MODAL DIAMETER: 4.45 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.5	0.5
40.00	98.5	1.1
30.00	97.3	1.2
25.00	95.6	1.7
20.00	92.2	3.6
15.00	87.3	4.9
10.00	80.4	6.9
8.00	76.6	3.8
6.00	71.4	5.2
5.00	67.6	3.8
4.00	62.4	5.1
3.00	55.5	6.9
2.00	50.0	5.5
1.50	45.9	4.1
1.00	40.4	5.5
0.80	37.6	2.8
0.60	33.9	3.7
0.50	31.4	2.5
0.40	27.5	3.9

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 / BUS (705) 378-2416

DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /238

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15769

START 15:57:19 07/10/91

SUBMITTER: # 33

REPT 16:13:59 07/10/91

OPERATOR: KM

TOT RUN TIME 0:07:05

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

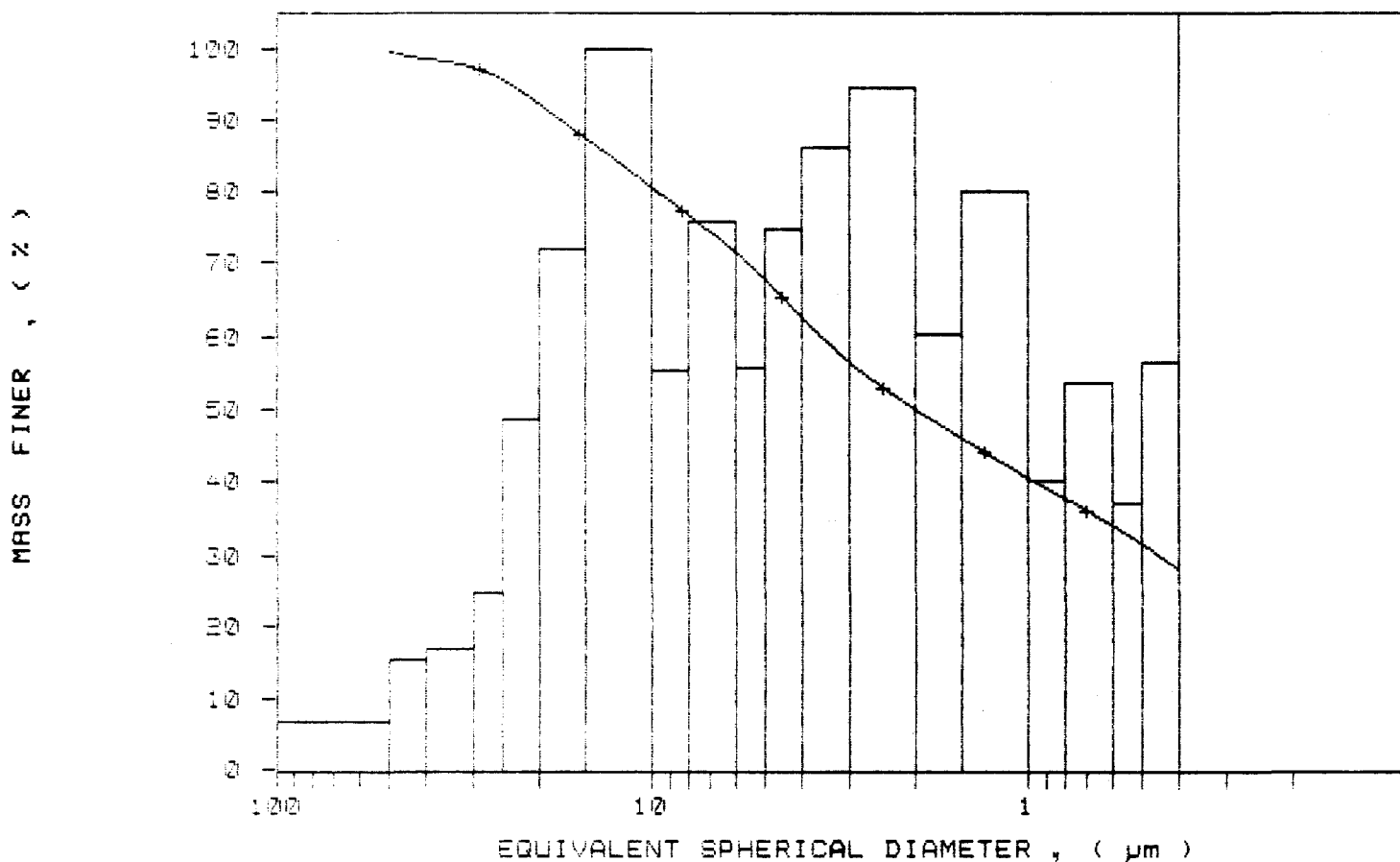
LIQUID TYPE: water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

LIQ VISC: 0.7264 cp

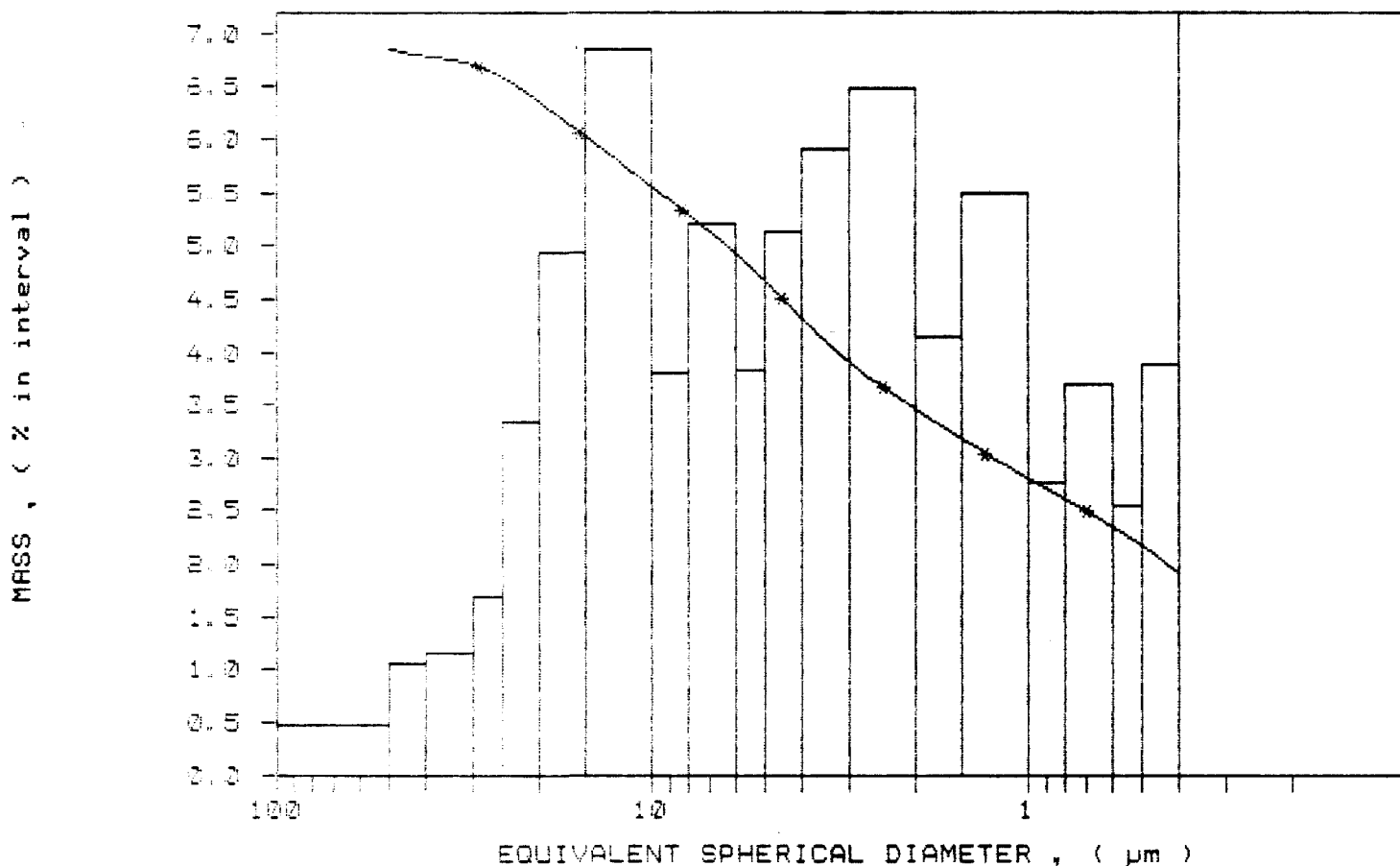
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /238
SAMPLE ID: Hole ID 88-18 # 15769
SUBMITTER: # 89
OPERATOR: AM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 15:57:19 07/10/91
REPT 16:13:59 07/10/91
TOT RUN TIME 0:07:05
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7264 cp

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



Hole D 88-18 # 15770

SediGraph 5100 VE.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /289
 SAMPLE ID: Hole D 88-18 # 15770
 SUBMITTER: # 29
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 54.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 10:21:40 07/15/91
 REPT 10:41:33 07/15/91
 TOT RUN TIME 0:07:25
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7274 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.52 μ m MODAL DIAMETER: 2.25 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	36.1	3.9
40.00	97.2	-1.2
30.00	35.3	1.5
25.00	93.4	2.4
20.00	89.7	3.7
15.00	85.7	4.0
10.00	80.1	5.6
8.00	76.6	3.5
6.00	71.5	5.0
5.00	68.3	3.6
4.00	63.9	4.8
3.00	56.4	7.4
2.00	39.0	17.5
1.50	23.4	9.6
1.00	25.1	4.3
0.80	24.6	1.1
0.60	22.4	1.6
0.50	20.6	1.8
0.40	16.2	4.4

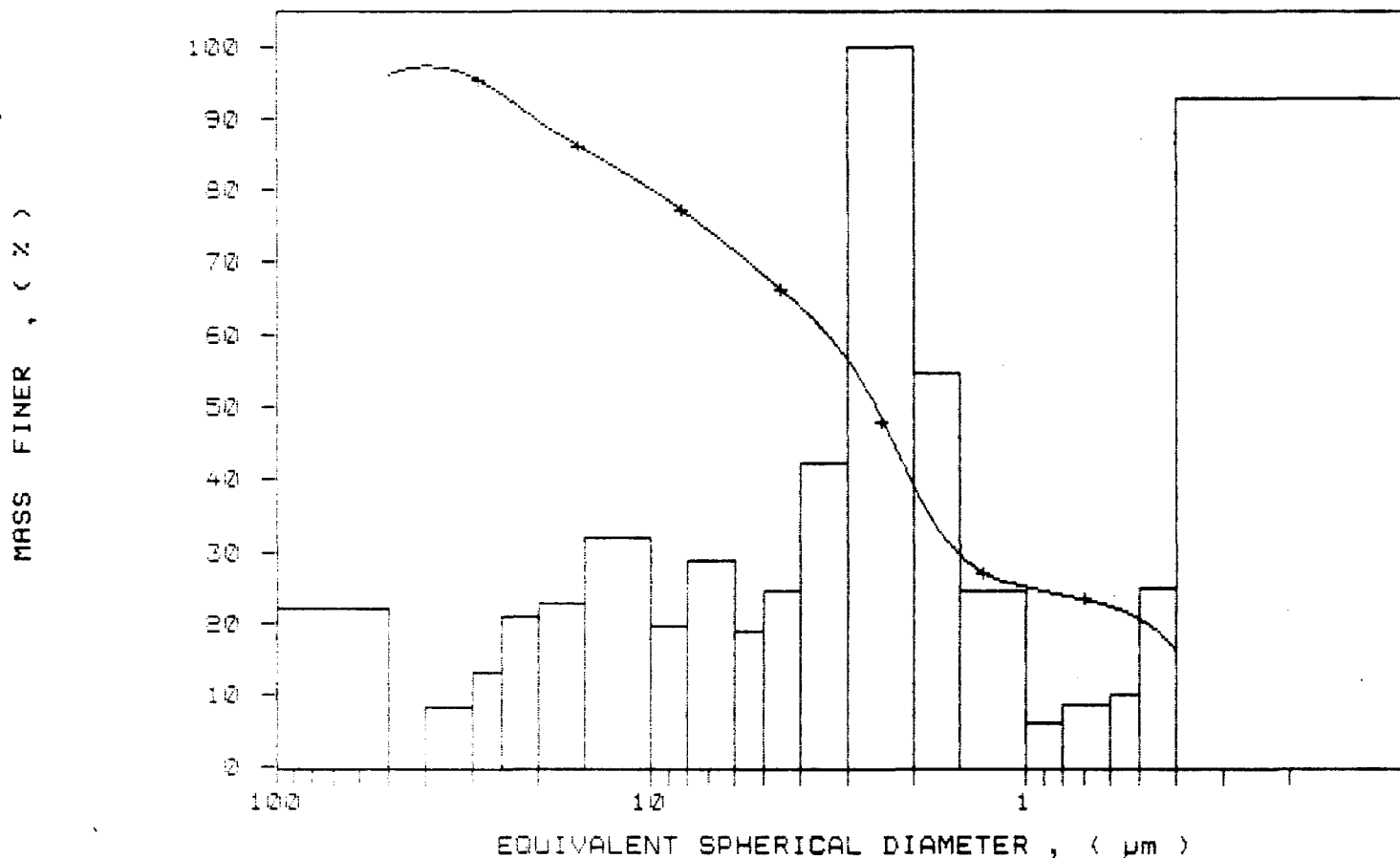
**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 FARRY SOUND, ONTARIO
 CANADA P1A 2W8

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

DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /239	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-18 # 15770	START 10:21:40 07/15/91
SUBMITTER: # 39	REPRT 10:41:33 07/15/91
OPERATOR: KM	TOT RUN TIME 0:07:25
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	RUN TYPE: High Speed
	LIQ VISC: 0.7274 cp

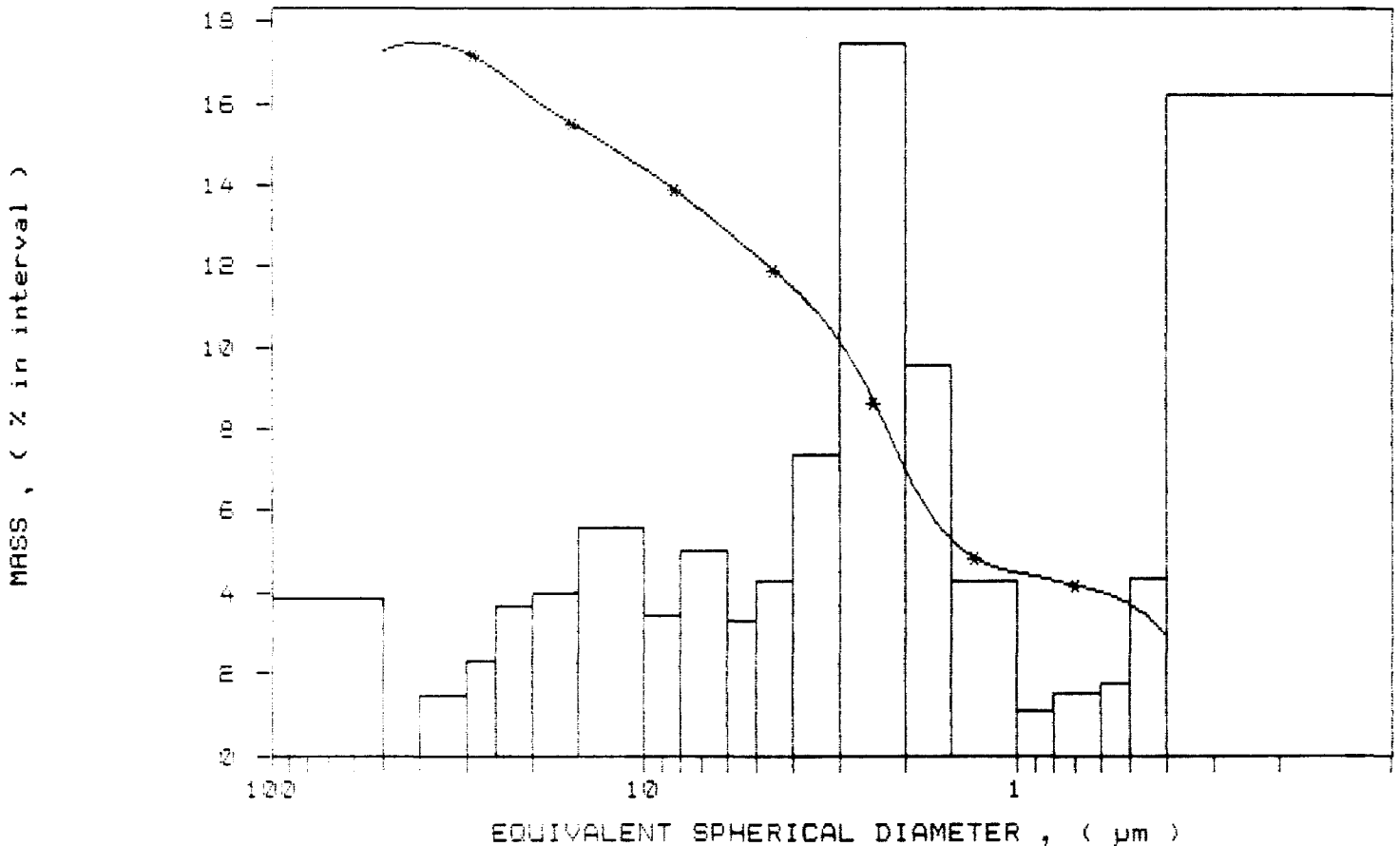
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /289
 SAMPLE ID: Hole D 88-18 # 15770
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
 START 10:21:40 07/15/91
 REPT 10:41:33 07/15/91
 TOT RUN TIME 0:07:25
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7274 cp

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



ANALYSIS REPORT
 DATE: 07/15/91
 TIME: 10:41:33
 OPERATOR: KM
 SAMPLE ID: Hole D 88-18 # 15770
 UNIT NUMBER: 1
 TOTAL RUN TIME: 0:07:25
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7274 cp
 [Signature]

SAMPLE DIRECTORY/NUMBER: DATA /240
 SAMPLE ID: Hole D 88-18 # 15771
 SUBMITTER: # 39
 OPERATOR: RM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 10:49:25 07/15/91
 REPT 11:07:00 07/15/91
 TOT RUN TIME 0:07:28
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7271 cp

STARTING DIAMETER: 50.00 µm REYNOLDS NUMBER: 0.21
 ENDING DIAMETER: 0.40 µm FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.20 µm MODAL DIAMETER: 3.19 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.5	2.5
40.00	97.9	-0.5
30.00	97.1	0.8
25.00	95.5	1.6
20.00	93.1	2.4
15.00	89.7	3.4
10.00	83.5	6.2
8.00	80.2	3.4
6.00	74.5	5.7
5.00	70.1	4.4
4.00	64.9	5.1
3.00	57.3	7.6
2.00	48.1	9.3
1.50	41.7	6.3
1.00	33.7	8.1
0.80	29.0	3.8
0.60	25.2	4.8
0.50	22.4	2.8
0.40	18.9	3.5

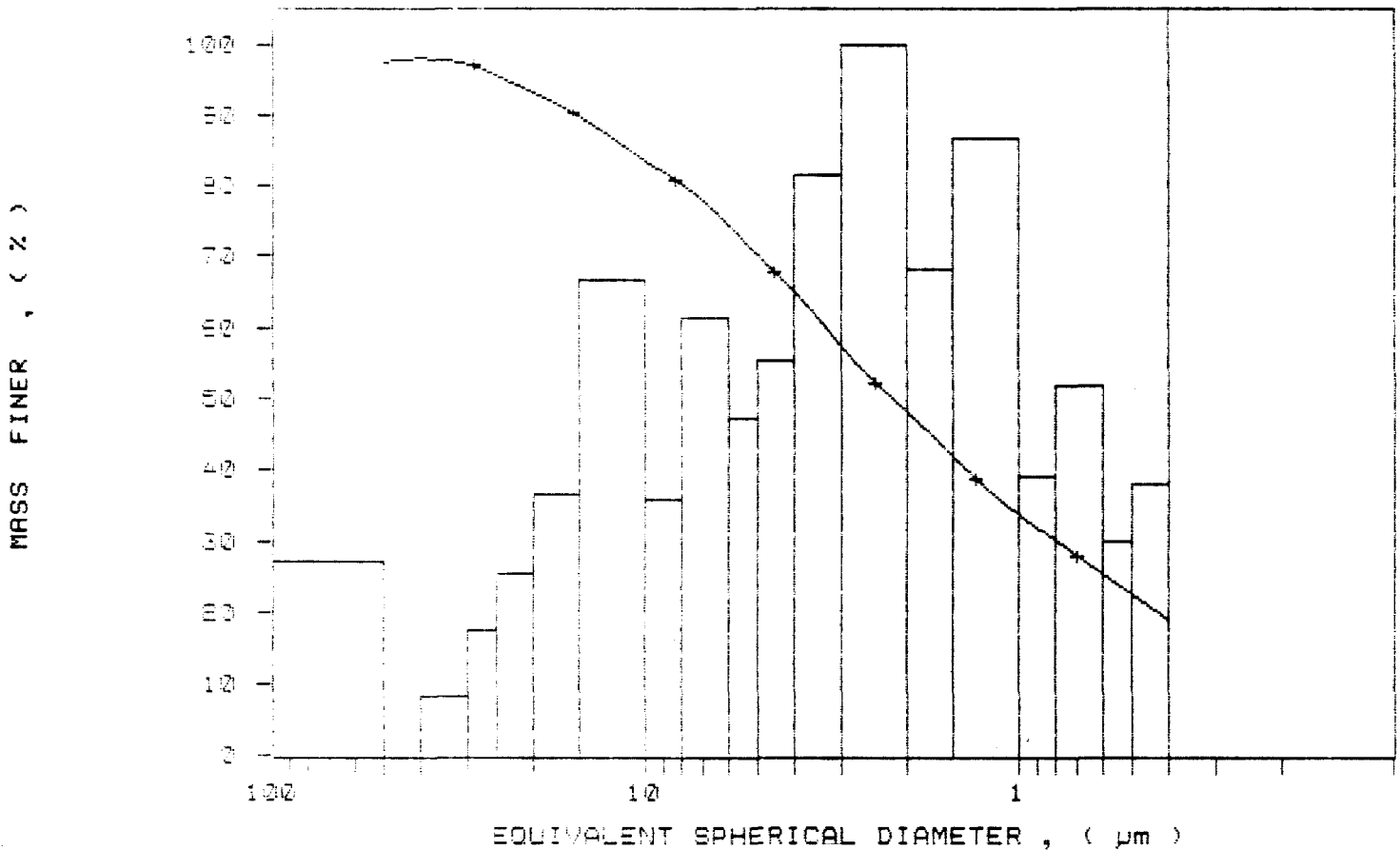
**MINERAL RESEARCH
 CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416

DATE *RM*

SAMPLE DIRECTORY NUMBER: DATAS /240	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-18 # 15771	START 10:49:26 07/15/91
SUBMITTER: # 39	REPR: 11:07:00 07/15/91
OPERATOR: NM	TOT RUN TIME 0:07:28
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.7 deg C	LIQ VISC: 0.7271 cp
RUN TYPE: High Speed	

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



SAMPLE DIRECTORY/NUMBER: DATA5 /240

SAMPLE ID: Hole D 88-18 # 15771

SUBMITTER: # 85

OPERATOR: FM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 10:49:26 07/15/91

REPT 11:07:00 07/15/91

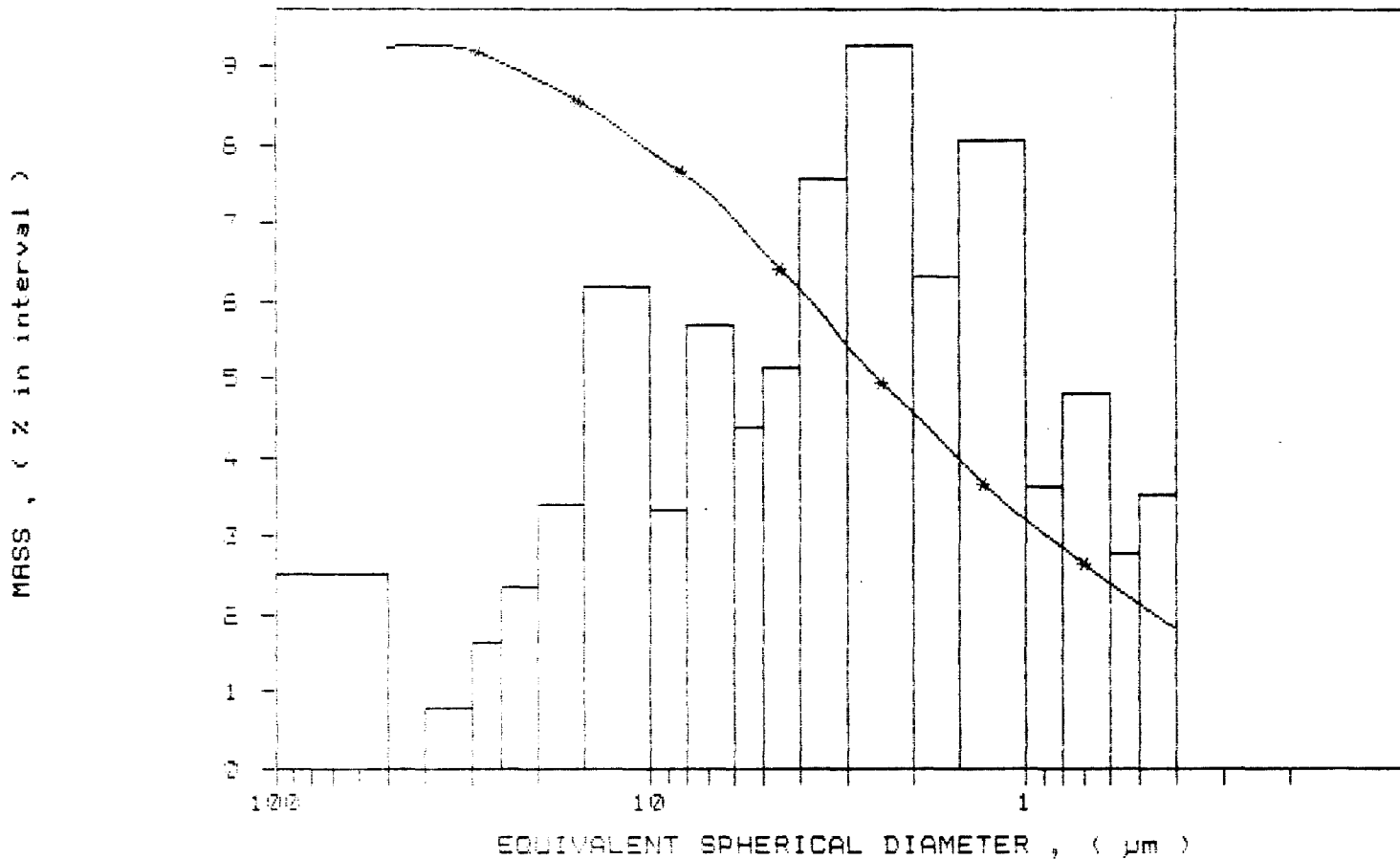
TOT RUN TIME 0:07:28

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7271 cp

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



Hole d 88-18 # 15772

SediGraph 5100 V2.05

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /242
 SAMPLE ID: Hole D 88-18 # 15772
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 11:49:44 07/15/91
 REPT 11:57:36 07/15/91
 TOT RUN TIME 0:07:31
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7267 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.00 μ m MODAL DIAMETER: 3.93 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	95.5	4.5
40.00	97.0	-1.4
30.00	96.7	0.3
25.00	95.8	0.9
20.00	93.6	2.1
15.00	90.3	3.4
10.00	64.0	6.2
8.00	60.2	3.8
6.00	75.6	6.4
5.00	65.7	4.1
4.00	64.6	5.1
3.00	53.0	6.6
2.00	50.0	3.0
1.50	45.3	4.3
1.00	37.8	7.4
0.80	33.9	3.9
0.60	33.8	4.1
0.50	37.2	2.7
0.40	33.7	3.4

**MINERAL RESEARCH
CANADA**

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

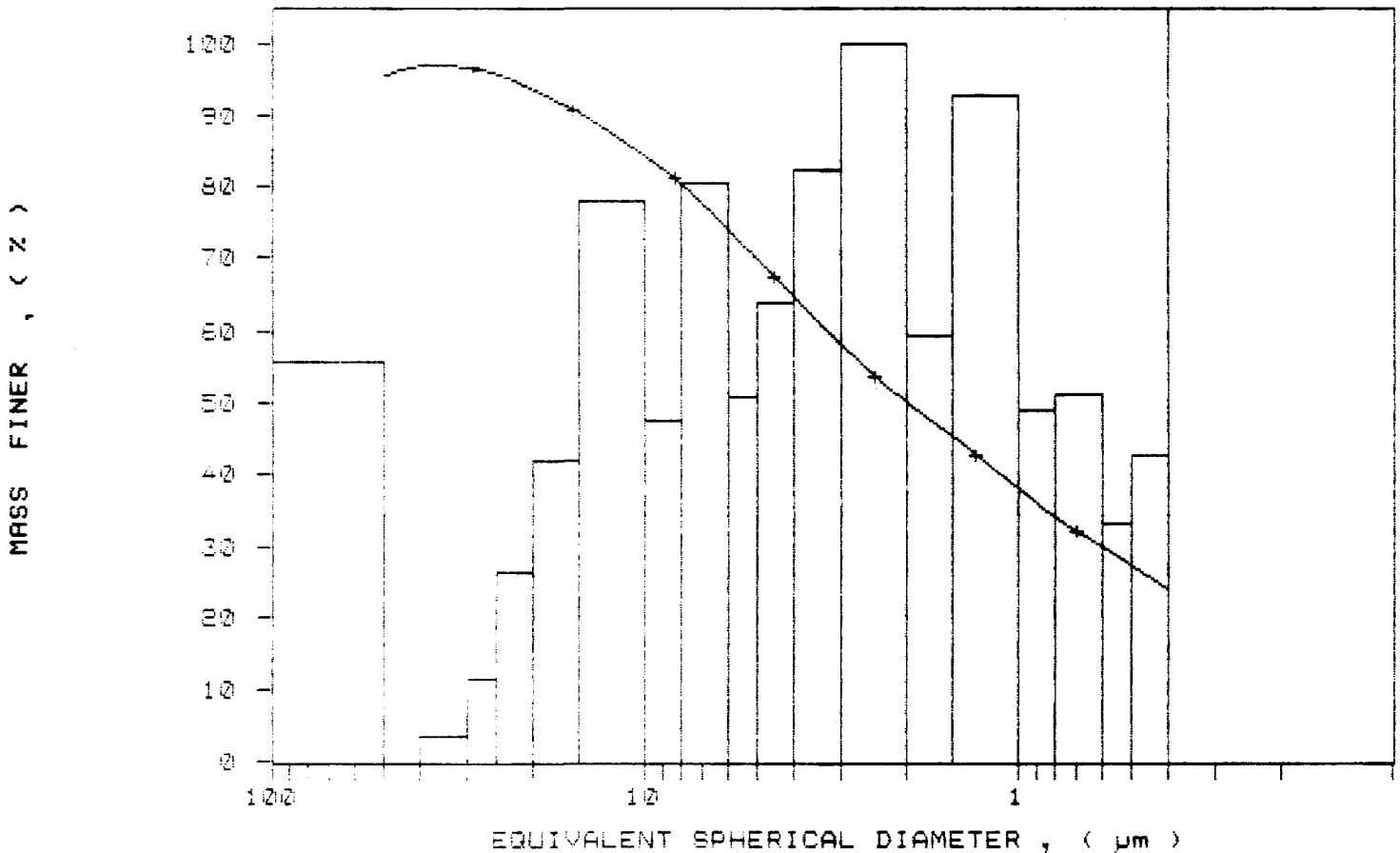
FAX (705) 378-5123 BU (705) 378-2416

DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 7242
SAMPLE ID: Hole D 88-18 # 15772
SUBMITTER: # 33
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 11:49:44 07/15/91
REPR 11:57:36 07/15/91
TOT RUN TIME 0:07:31
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7267 cp

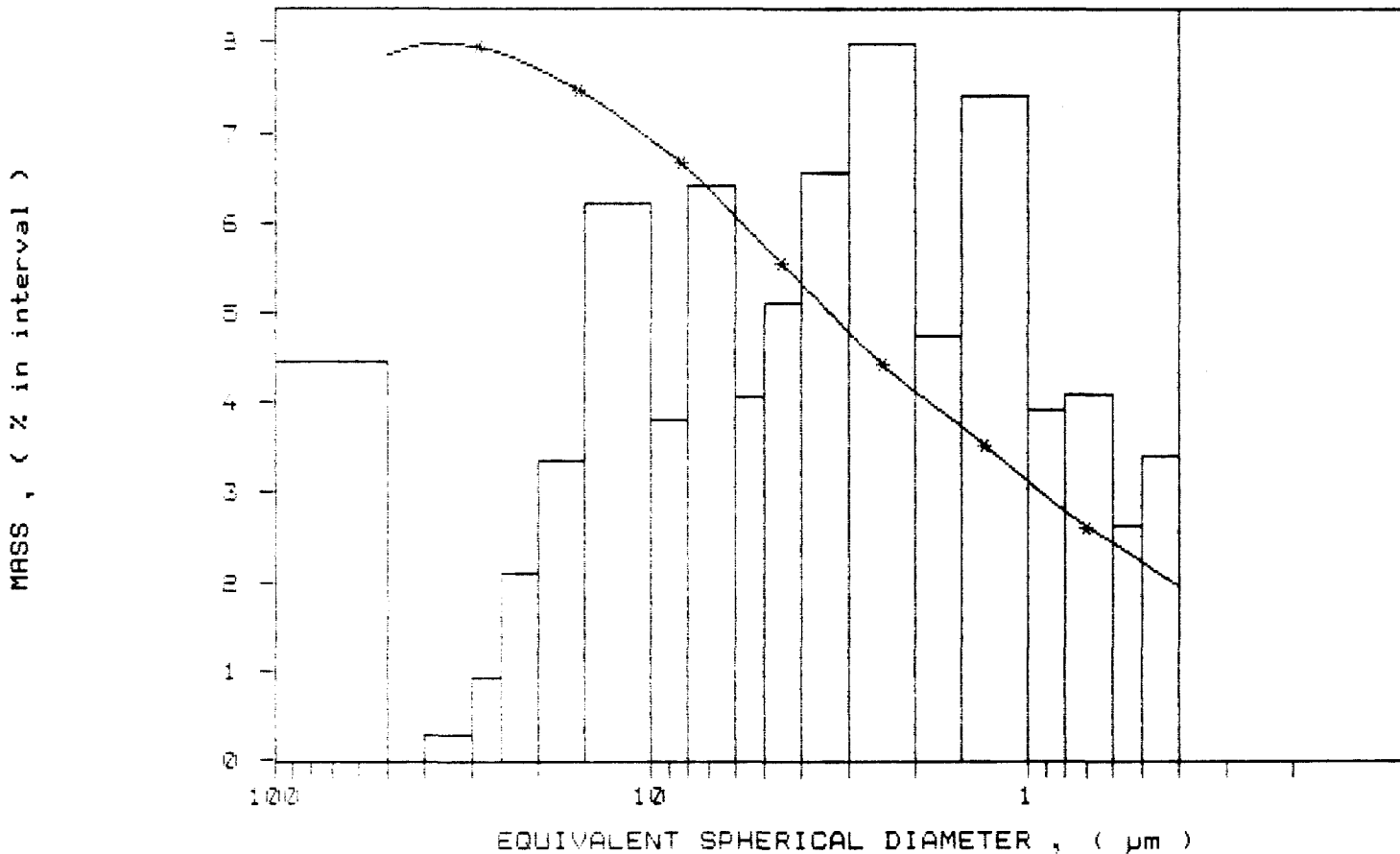
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /242
SAMPLE ID: Hole D 88-18 # 15772
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 11:49:44 07/15/91
REPT 11:57:36 07/15/91
TOT RUN TIME 0:07:31
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7267 cp

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



SediGraph 5100 V2.03

Hole D 88-13 # 15773

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAS /243
 SAMPLE ID: Hole D 88-13 # 15773
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:09:50 07/15/91
 REPT 12:17:11 07/15/91
 TOT RUN TIME 0:07:00
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.71 μ m MASS DISTRIBUTION
 MODAL DIAMETER: 2.52 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.9	1.1
40.00	97.2	1.6
30.00	96.4	0.8
25.00	96.0	0.5
20.00	94.5	1.5
15.00	91.6	2.7
10.00	88.1	3.7
8.00	86.6	2.0
6.00	80.2	5.7
5.00	75.6	4.5
4.00	70.4	5.4
3.00	63.9	6.5
2.00	53.5	10.4
1.50	47.2	6.3
1.00	38.5	3.7
0.80	33.9	4.6
0.60	29.3	4.7
0.50	26.5	2.8
0.40	22.7	3.8

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 BARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5122 BUS (705) 378-2416
 DATE *KM*

SAMPLE DIRECTORY NUMBER: DATA5 /243

SAMPLE ID: Hole D 88-18 # 15773

SUBMITTER: # 35

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 12:09:50 07/15/91

REPT 12:17:11 07/15/91

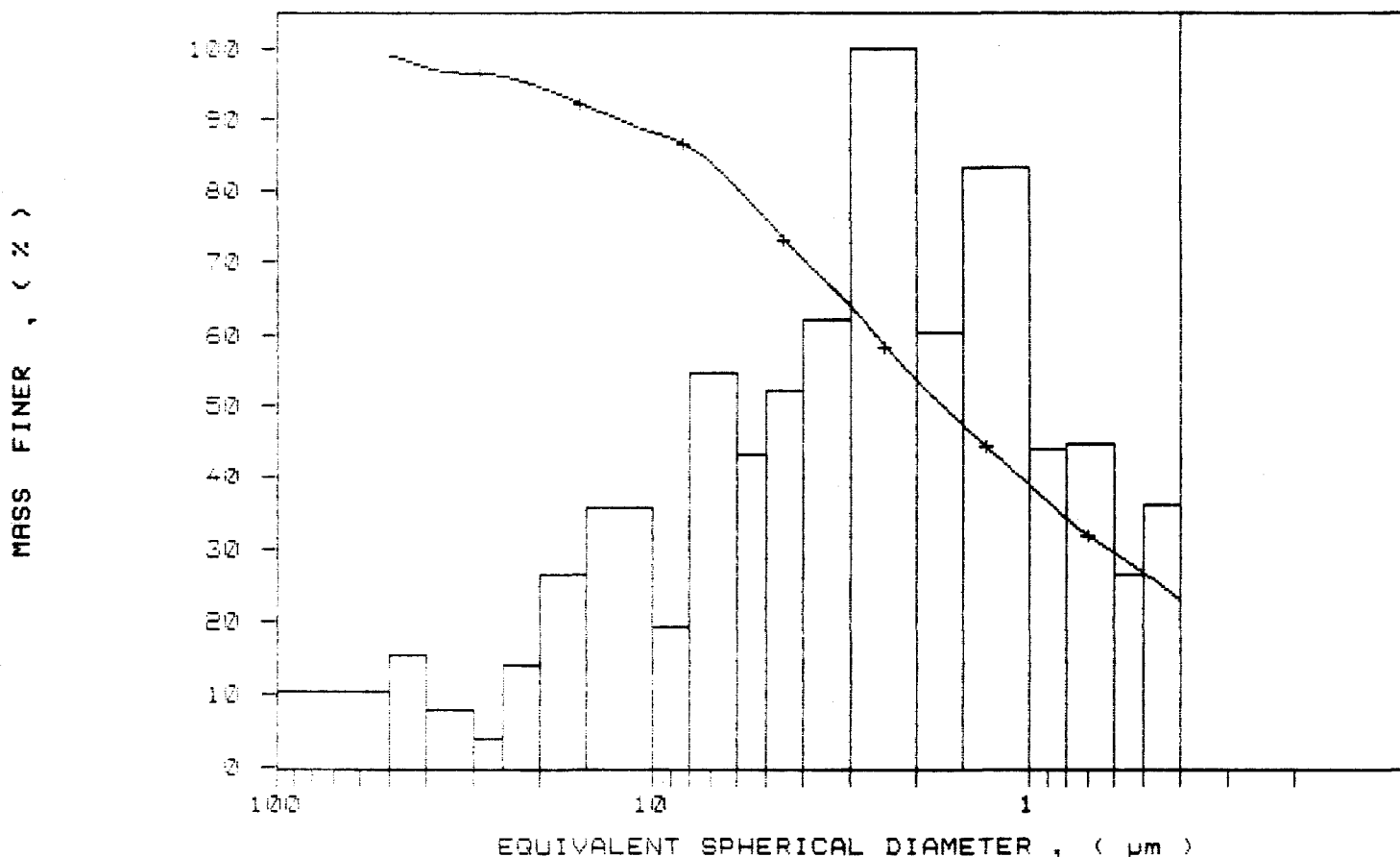
TOT RUN TIME 0:07:00

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7264 cp

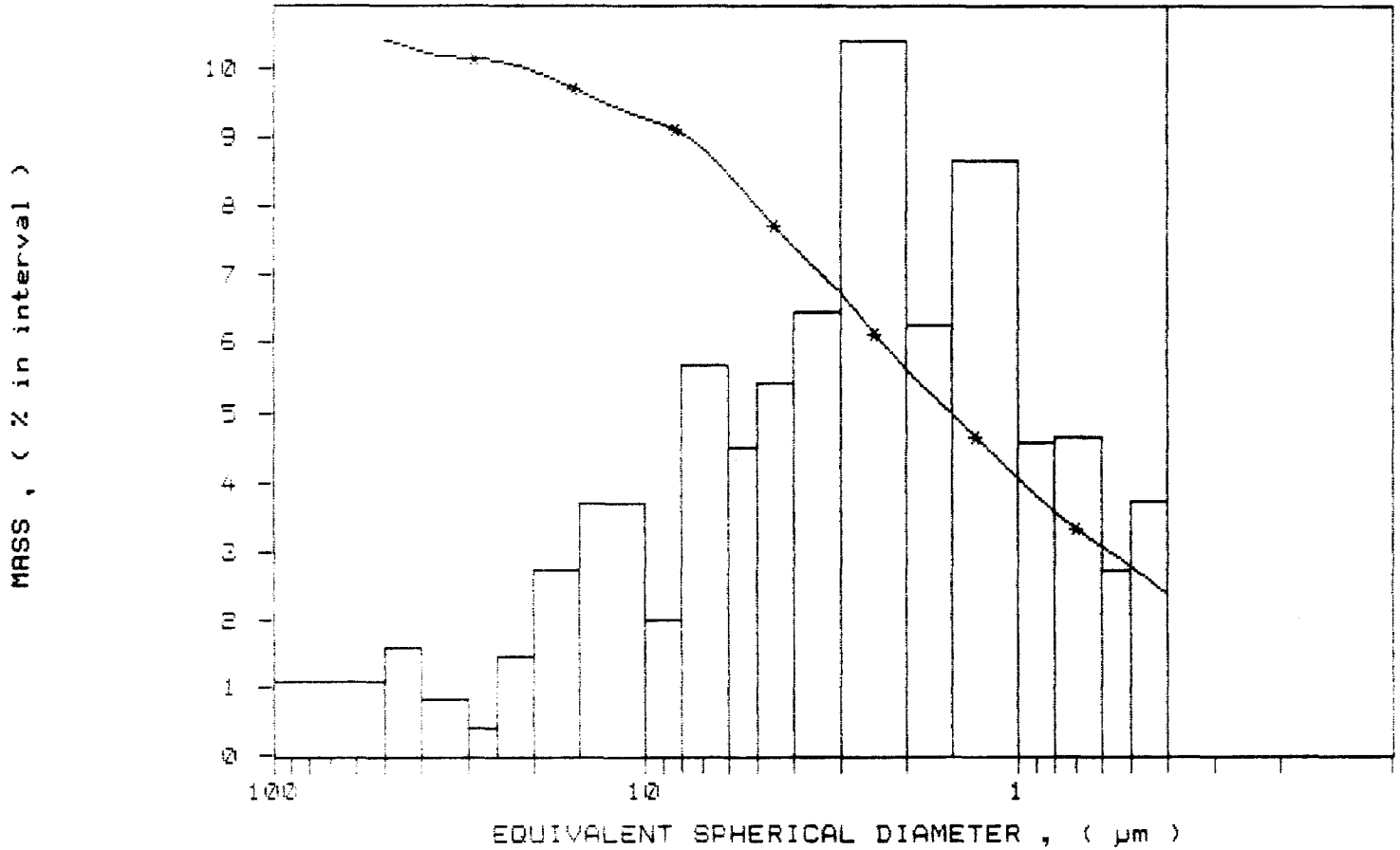
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /243
 SAMPLE ID: Hole D 88-18 # 15773
 SUBMITTER: # 89
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 12:09:50 07/15/91
 REPT 12:17:11 07/15/91
 TOT RUN TIME 0:07:00
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7264 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /244
 SAMPLE ID: Hole D 88-18 # 15774
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.3 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 13:13:32 07/15/91
 REPT 13:20:57 07/15/91
 TOT RUN TIME 0:07:04
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7261 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.63 μ m MODAL DIAMETER: 4.24 μ m

DIAMETER (μ m)	CUMMLATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.2	1.8
40.00	96.5	-0.3
30.00	97.9	0.6
25.00	96.7	1.2
20.00	94.7	2.0
15.00	91.4	3.3
10.00	84.6	6.8
8.00	80.6	4.0
6.00	75.1	5.5
5.00	71.3	3.8
4.00	66.0	5.3
3.00	59.9	6.0
2.00	53.1	6.8
1.50	48.7	4.4
1.00	42.8	5.9
0.80	39.9	2.9
0.60	36.1	3.8
0.50	33.5	2.6
0.40	29.4	4.0

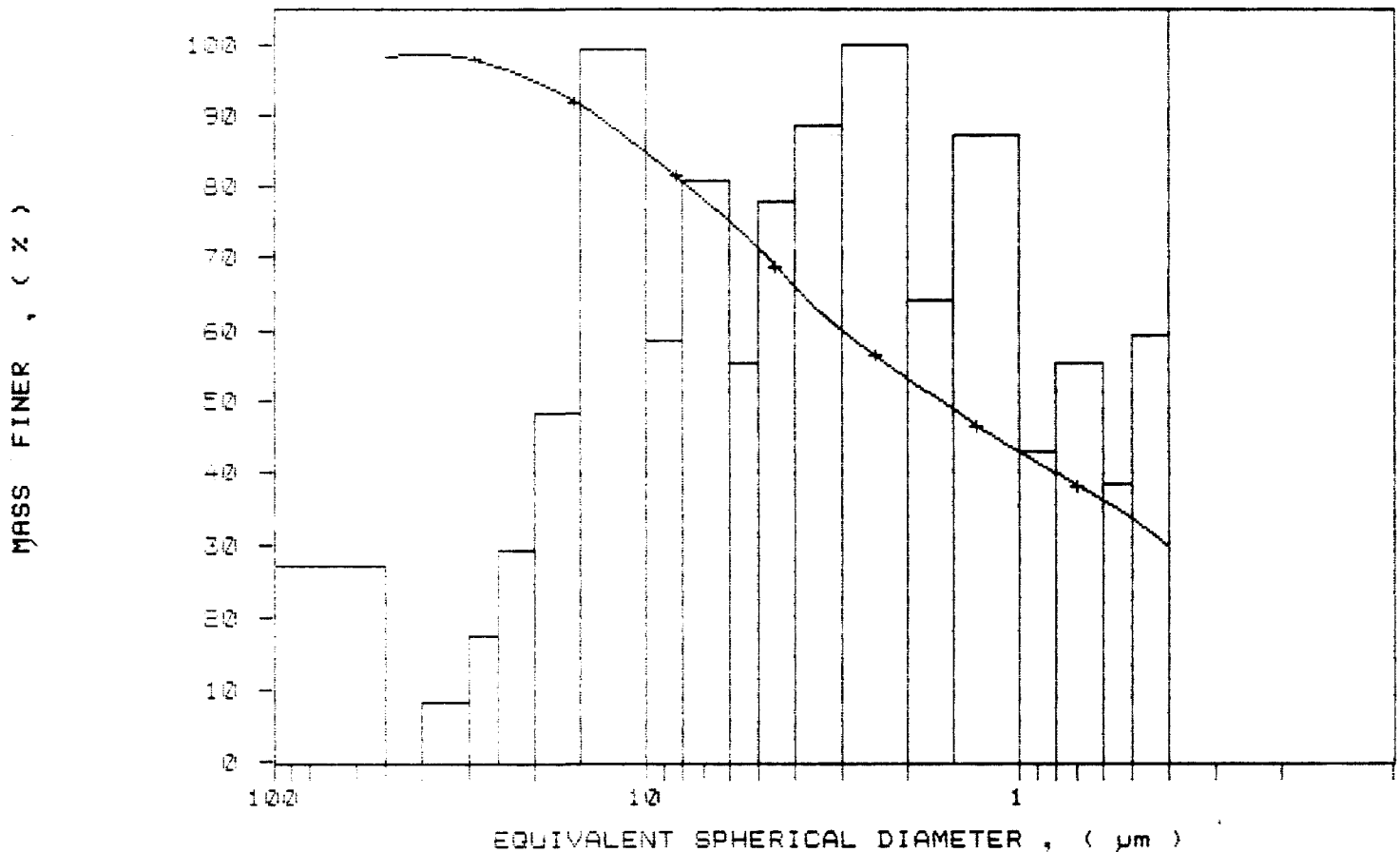


SAMPLE DIRECTORY/NUMBER: DATA5 /244
SAMPLE ID: Hole D 88-18 # 15774
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.8 deg C

UNIT NUMBER: 1
START 13:13:32 07/15/91
REPT 13:20:57 07/15/91
TOT RUN TIME 0:07:04
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7261 cp

RUN TYPE: High Speed

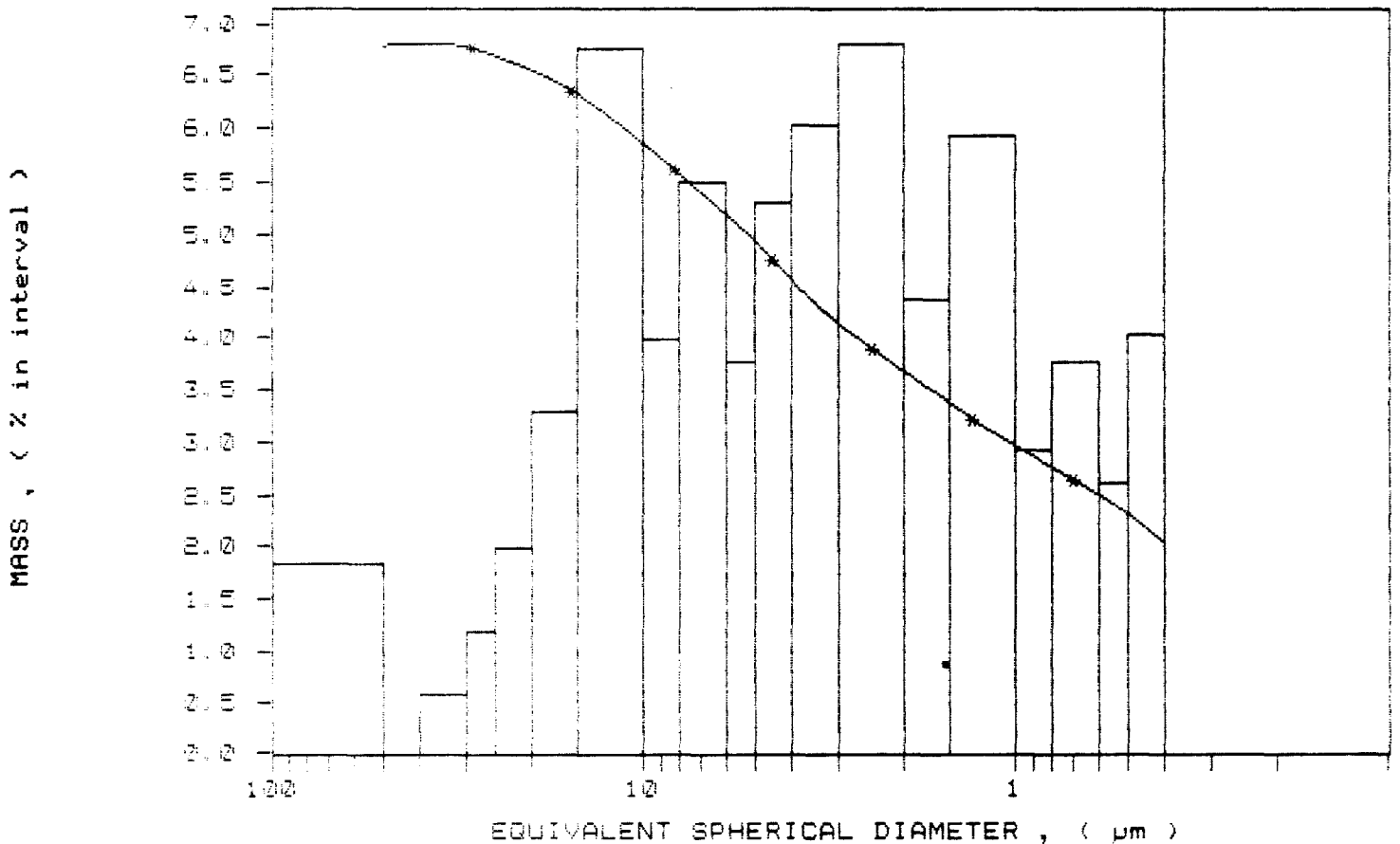
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAS /244
 SAMPLE ID: Hole D 88-18 # 15774
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.8 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 13:13:32 07/15/91
 REPT 13:20:57 07/15/91
 TOT RUN TIME 0:07:04
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7261 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /245
 SAMPLE ID: Hole D 88-18 # 15775
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:06:21 07/15/91
 REPT 14:14:15 07/15/91
 TOT RUN TIME 0:07:34
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7262 cp

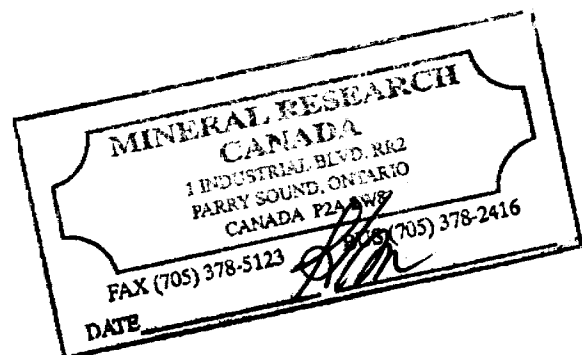
STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.21 µm MODAL DIAMETER: 3.21 µm

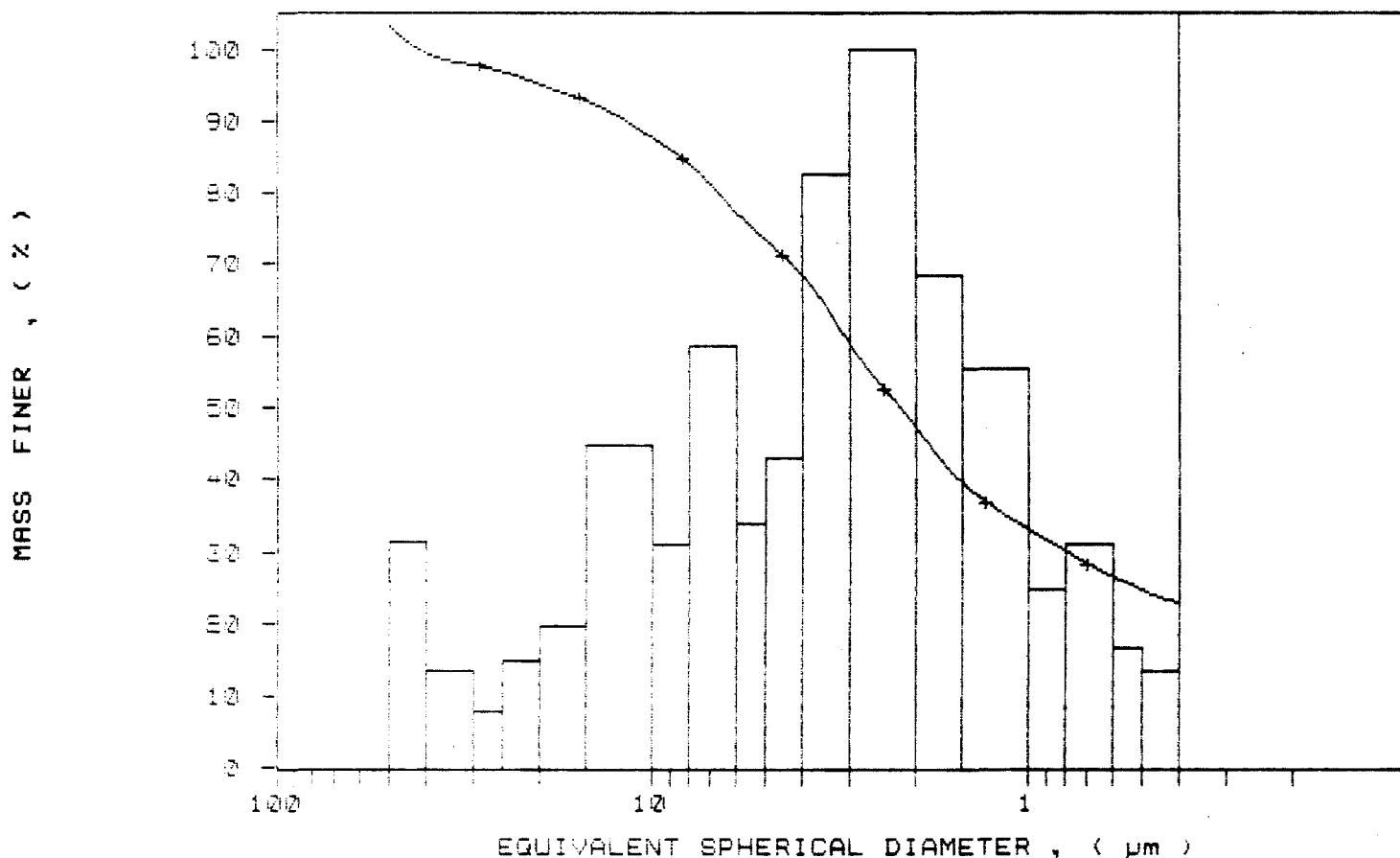
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.0	-5.0
40.00	99.4	3.6
30.00	97.8	1.6
25.00	96.9	1.0
20.00	95.0	1.8
15.00	92.2	2.8
10.00	87.6	5.2
8.00	84.0	3.6
6.00	77.2	6.8
5.00	78.3	3.9
4.00	68.3	5.0
3.00	58.7	9.6
2.00	47.2	11.6
1.50	39.3	7.9
1.00	32.9	6.4
0.80	30.0	2.9
0.60	26.4	3.6
0.50	24.4	2.0
0.40	22.9	1.6



SAMPLE DIRECTORY/NUMBER: DATA5 /245
SAMPLE ID: Hole D 88-18 # 15775
SUBMITTER: # 89
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 14:06:21 07/15/91
REPT 14:14:15 07/15/91
TOT RUN TIME 0:07:34
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7262 cp

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

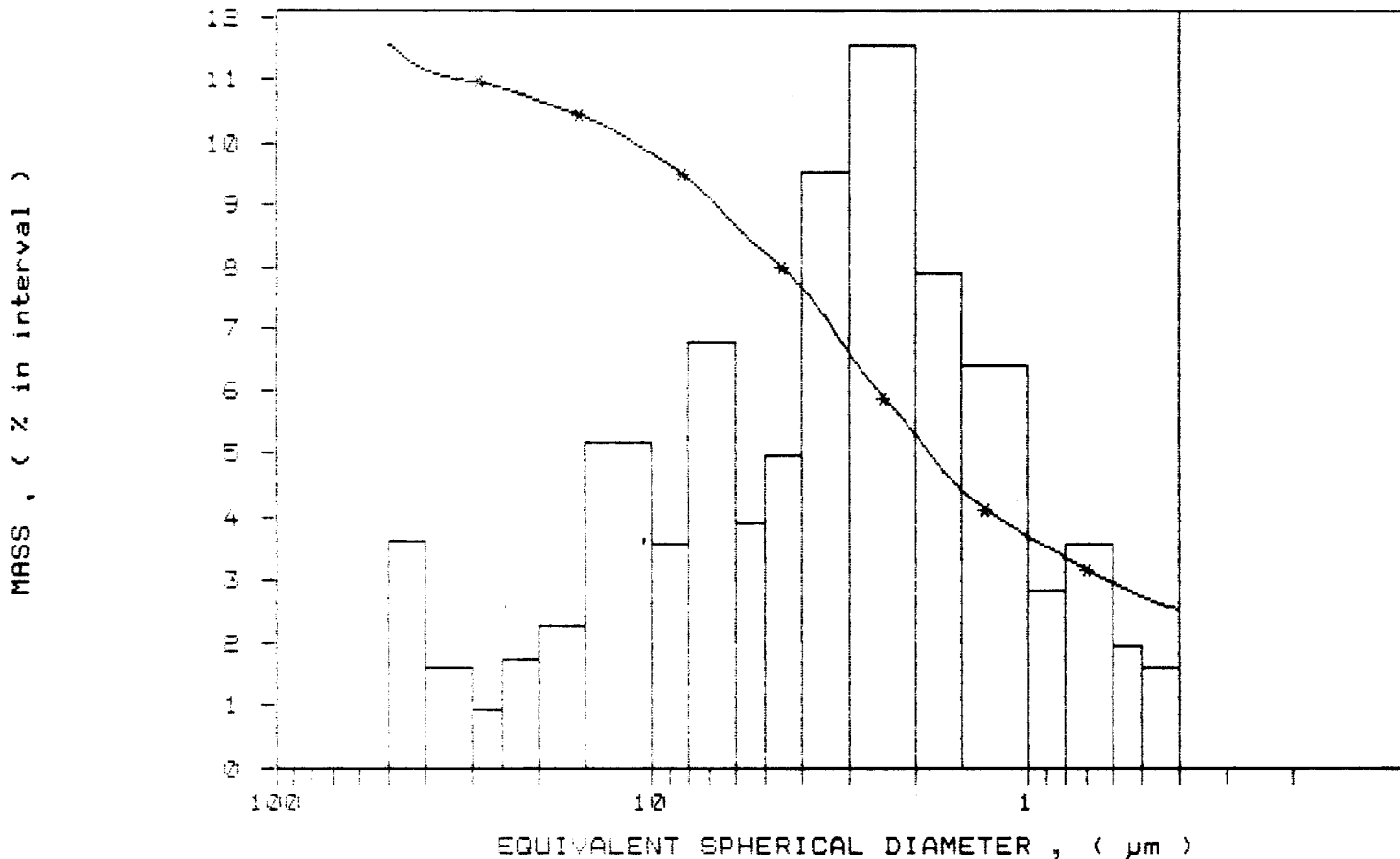


SAMPLE DIRECTORY/NUMBER: DATA5 /245
SAMPLE ID: Hole D 88-18 # 15775
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1
START 14:06:21 07/15/91
REPRT 14:14:15 07/15/91
TOT RUN TIME 0:07:34
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7262 cp

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



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SediGraph 5100 02.03

Hole D 88-18 # 15776

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAS /246
 SAMPLE ID: Hole D 88-18 # 15776
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:26:00 07/15/91
 REPR 14:33:33 07/15/91
 TOT RUN TIME 0:07:12
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7262 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 2.92 μ m MASS DISTRIBUTION

MODAL DIAMETER: 2.32 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.0	-0.9
40.00	99.2	1.7
30.00	98.3	0.9
25.00	96.7	1.7
20.00	93.8	3.4
15.00	88.2	5.1
10.00	73.0	8.4
8.00	74.4	5.3
6.00	67.7	6.7
5.00	63.2	4.5
4.00	57.6	5.6
3.00	50.6	6.9
2.00	33.2	11.5
1.50	32.1	7.0
1.00	26.3	5.9
0.80	24.2	2.0
0.60	22.6	2.3
0.50	20.1	1.9
0.40	16.6	3.5

**MINERAL RESEARCH
CANADA**

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

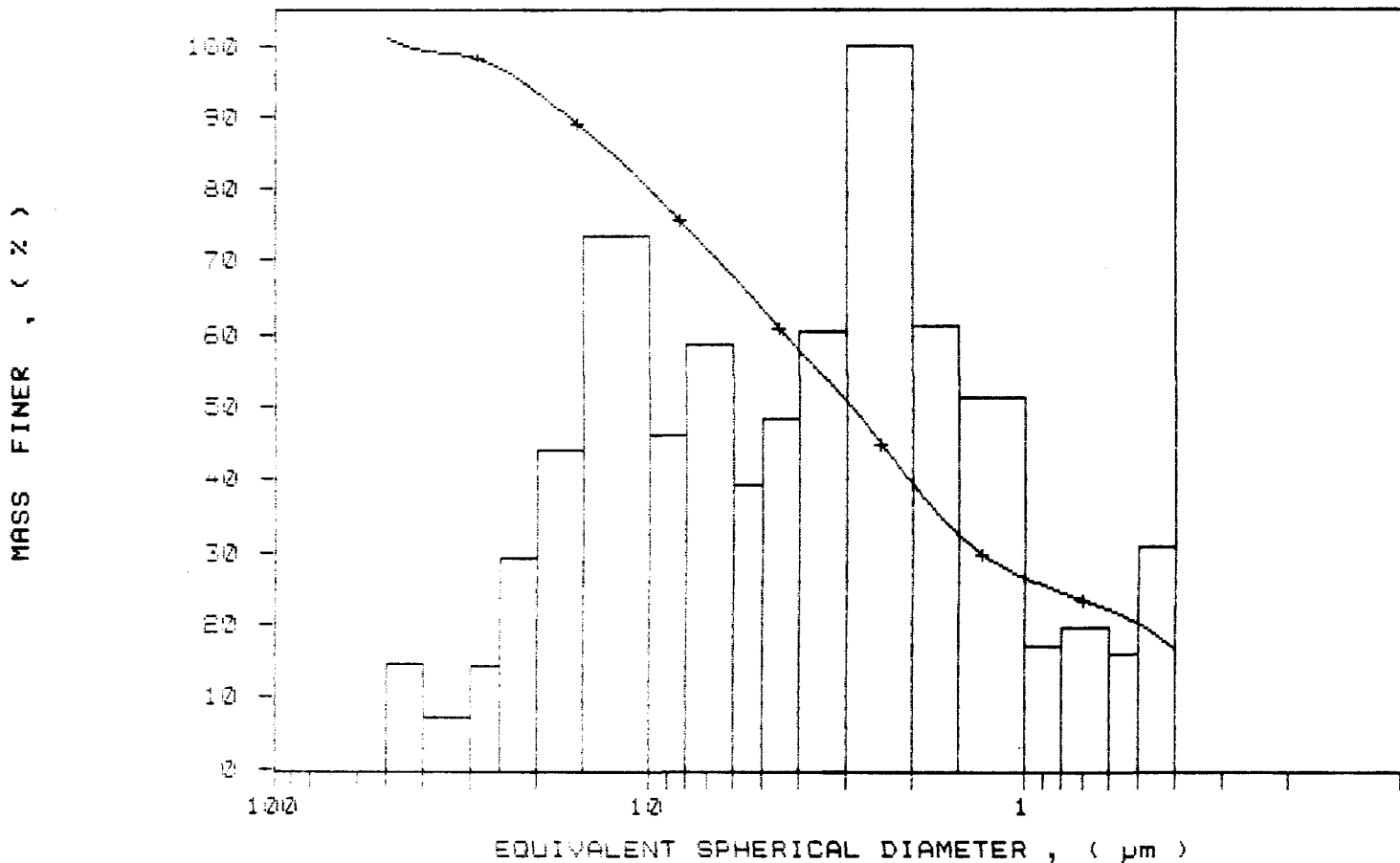
FAX (705) 378-5123 TEL (705) 378-2416

DATE *DM*

SAMPLE DIRECTORY/NUMBER: DATA5 /246
SAMPLE ID: Hole D 88-18 # 15776
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 14:26:00 07/15/91
REPT 14:33:33 07/15/91
TOT RUN TIME 0:07:12
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7262 cp

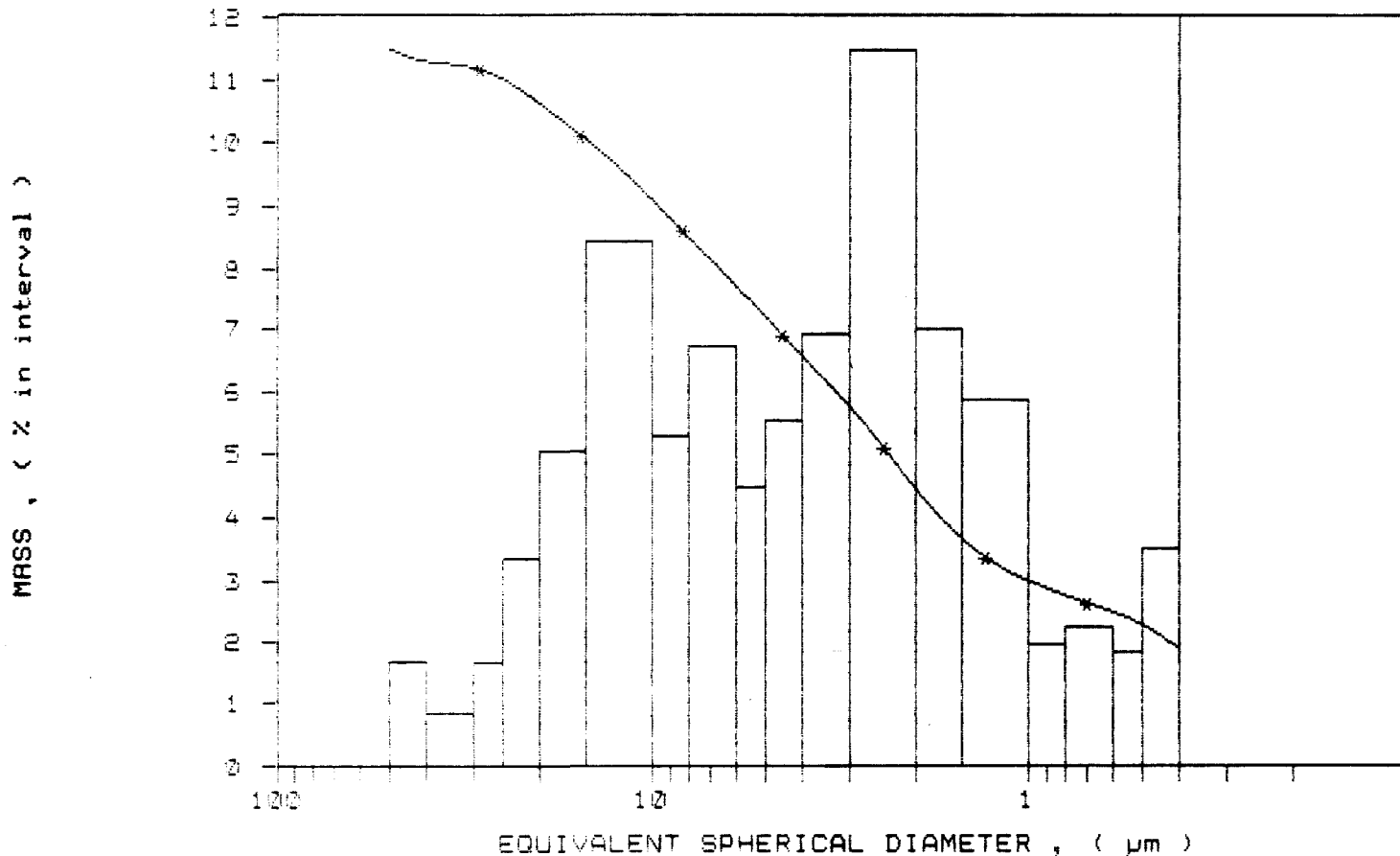
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /246
 SAMPLE ID: Hole D 88-18 # 15776
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 14:26:00 07/15/91
 REPT 14:33:33 07/15/91
 TOT RUN TIME 0:07:12
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7262 cp

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



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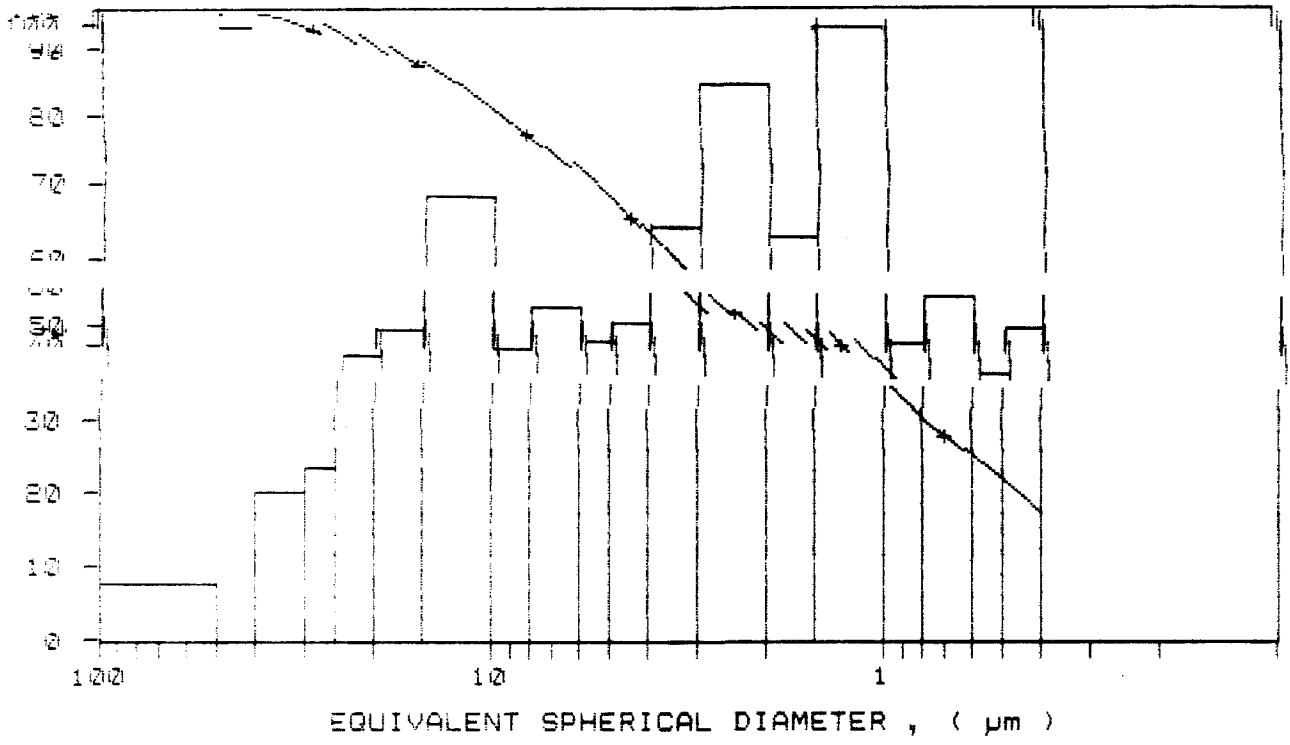
Hole D 88-18 # 15777

UNIT NUMBER: 1
PAGE 2
SUBMITTER: # 15777
OPERATOR: KM
SAMPLE TYPE: Clay
ANALYSIS TYPE: 4:7 deg C
RUN TYPE: High Speed

UNIT NUMBER: 1
PAGE 2
START IS: 24:20 07/15/91
REPT IS: 36:08 07/15/91
TOT RUN TIME 0:07:08
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9999 g/cc

1. MASS POPULATION VS. DIAMETER

M R: 3888 (2)

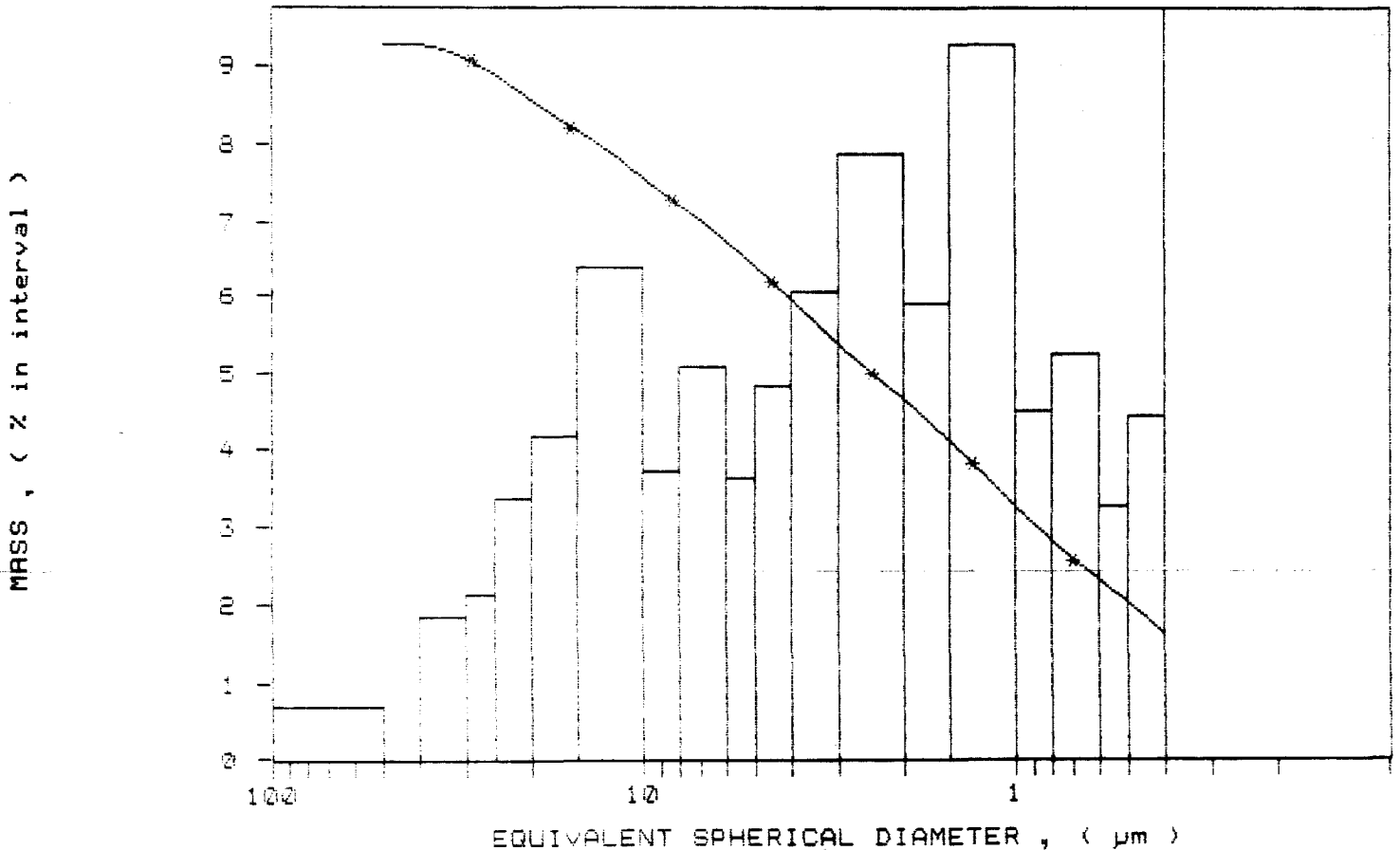


MINERAL RESEARCH CANADA
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5128 BUS (705) 378-2416
 DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /247
SAMPLE ID: Hole D 88-18 # 15777
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C

UNIT NUMBER: 1
START 15:24:20 07/15/91
REPT 15:36:08 07/15/91
TOT RUN TIME 0:07:08
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7264 cp

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



SediGraph 5100 V2.03

Hole D 88-18 # 15778

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /248
 SAMPLE ID: Hole D 88-18 # 15778
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.3 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 15:51:22 07/15/91
 REPRT 16:02:52 07/15/91
 TOT RUN TIME 0:06:58
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7260 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.47 μ m

MODAL DIAMETER: 3.07 μ m

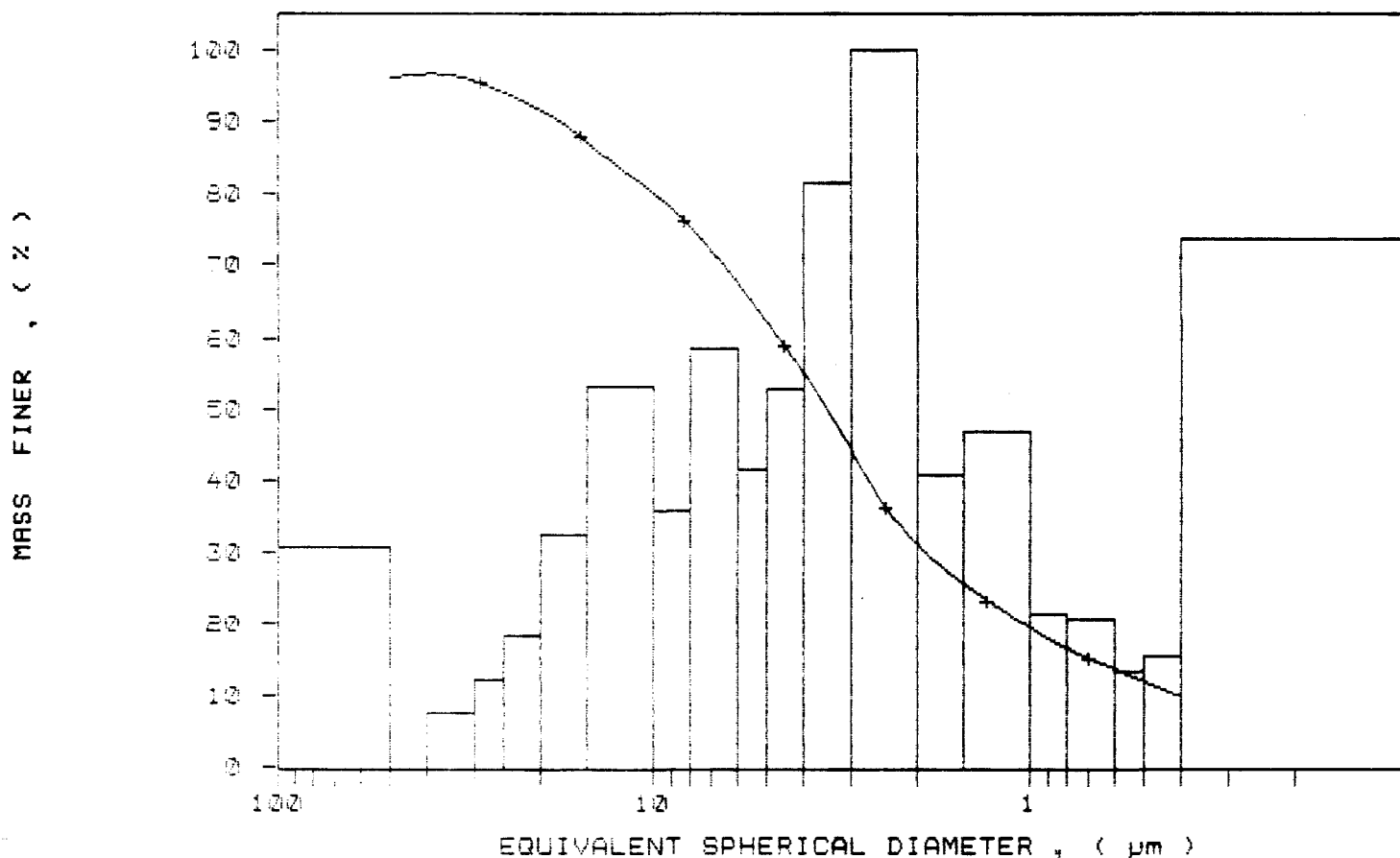
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	35.9	4.1
40.00	36.5	-0.6
30.00	35.5	1.0
25.00	33.9	1.6
20.00	31.4	2.4
15.00	27.1	4.3
10.00	20.1	7.1
8.00	15.6	4.6
6.00	17.3	7.8
5.00	18.0	5.5
4.00	35.0	7.0
3.00	44.2	10.8
2.00	30.3	18.2
1.50	25.7	3.4
1.00	19.6	6.2
0.80	16.4	2.9
0.60	13.7	2.6
0.50	11.9	1.8
0.40	9.8	2.1

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

FAX (705) 378-5123 BUS (705) 378-2416
 DATE *[Signature]*

SAMPLE DIRECTORY/NUMBER: DATA5 /248	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-18 # 15778	START 15:51:22 07/15/91
SUBMITTER: # 39	REPRT 16:02:52 07/15/91
OPERATOR: KM	TOT RUN TIME 0:06:58
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 64.8 deg C	LIQ VISC: 0.7260 cp
RUN TYPE: High Speed	

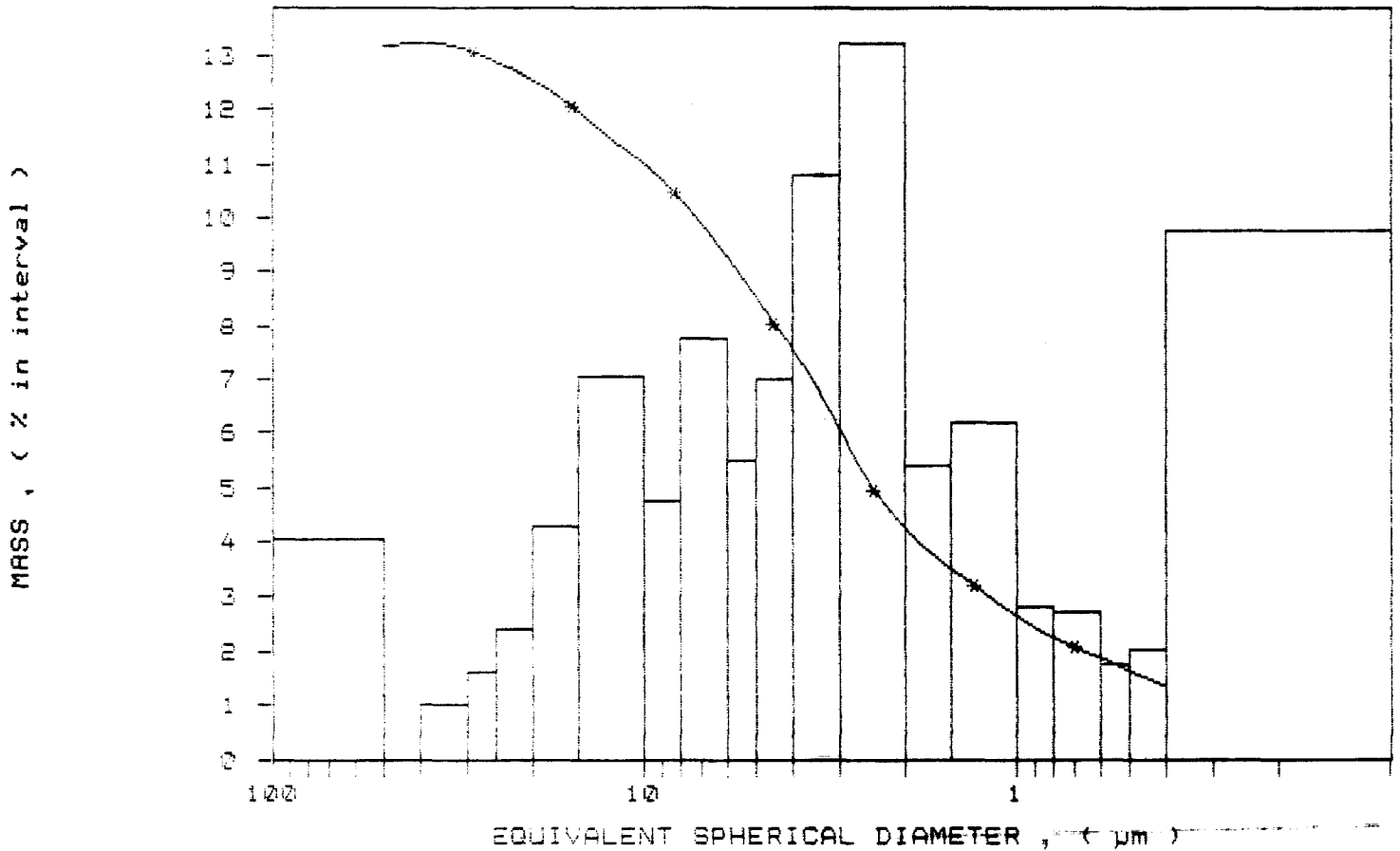
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /248
 SAMPLE ID: Hole D 88-18 # 15778
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.8 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 15:51:22 07/15/91
 REPT 16:02:52 07/15/91
 TOT RUN TIME 0:06:58
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7260 cp

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



Hole D 88-18 # 15779

SediGraph 5100 V2.05

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /249
 SAMPLE ID: Hole D 88-18 # 15779
 SUBMITTER: # 33
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 24.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 16:35:21 07/15/91
 REPRT 16:46:57 07/15/91
 TOT RUN TIME 0:07:05
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7263 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.23 μ m

MODAL DIAMETER: 3.46 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.4	0.6
40.00	98.1	1.3
30.00	96.8	1.3
25.00	95.1	1.6
20.00	92.6	2.9
15.00	87.9	4.4
10.00	82.2	5.7
8.00	79.7	2.5
6.00	78.4	1.3
5.00	69.6	4.2
4.00	63.2	5.5
3.00	56.6	7.5
2.00	46.9	9.4
1.50	40.1	6.9
1.00	31.1	6.9
0.80	26.0	4.9
0.60	20.7	5.7
0.50	17.6	3.0
0.40	13.5	3.0

**MINERAL RESEARCH
CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8

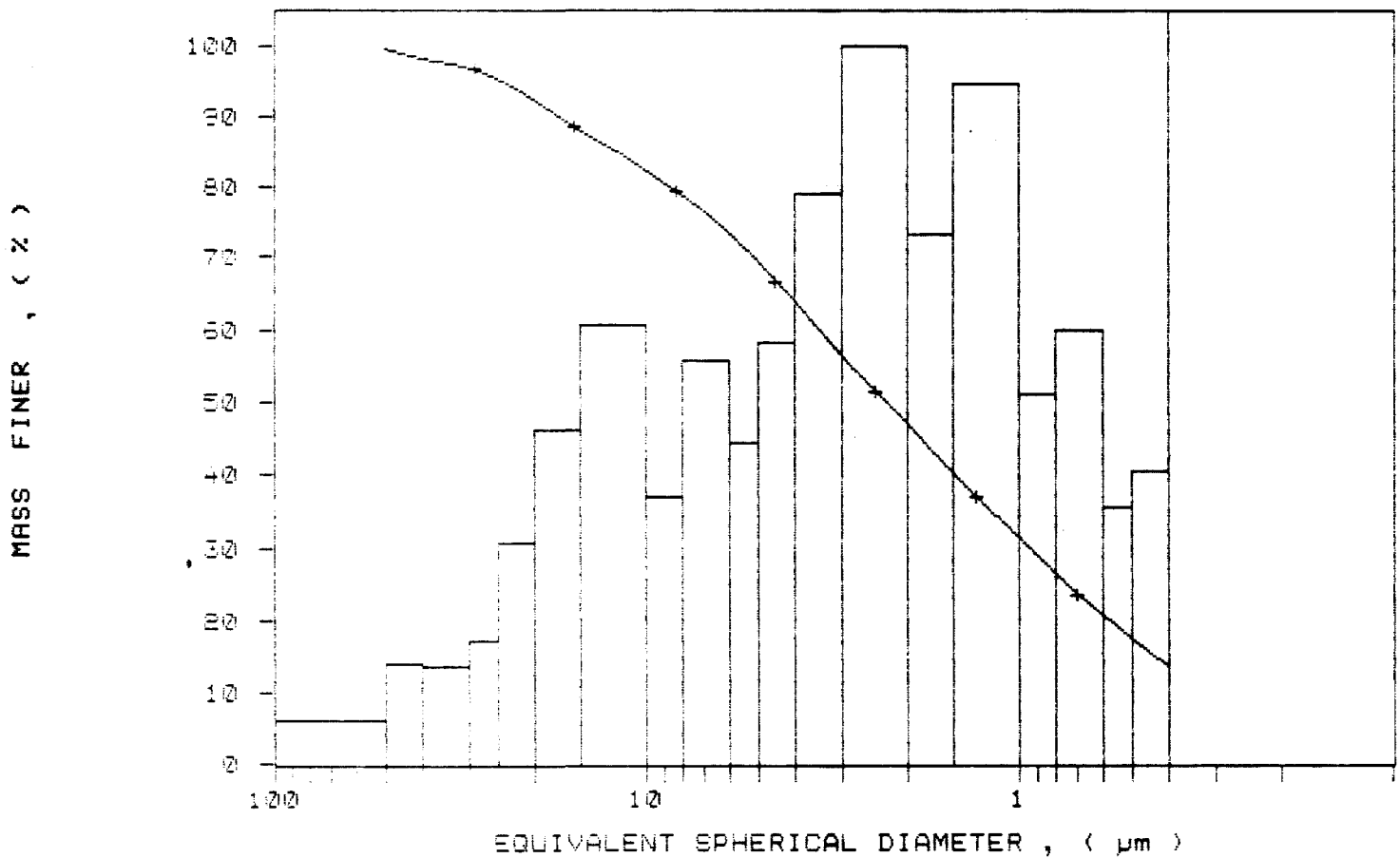
FAX (705) 378-5123 TEL (705) 378-2416

DATE: *dm*

SAMPLE DIRECTORY/NUMBER: DATA5 /249
SAMPLE ID: Hole D 88-18 # 15779
SUBMITTER: # 39
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 16:35:21 07/15/91
REPRT 16:48:57 07/15/91
TOT RUN TIME 0:07:05
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7263 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /249

SAMPLE ID: Hole D 88-18 # 15779

SUBMITTER: # 39

OPERATOR: KM

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 34.7 deg C

RUN TYPE: High Speed

UNIT NUMBER: 1

START 16:35:21 07/15/91

REPT 16:46:57 07/15/91

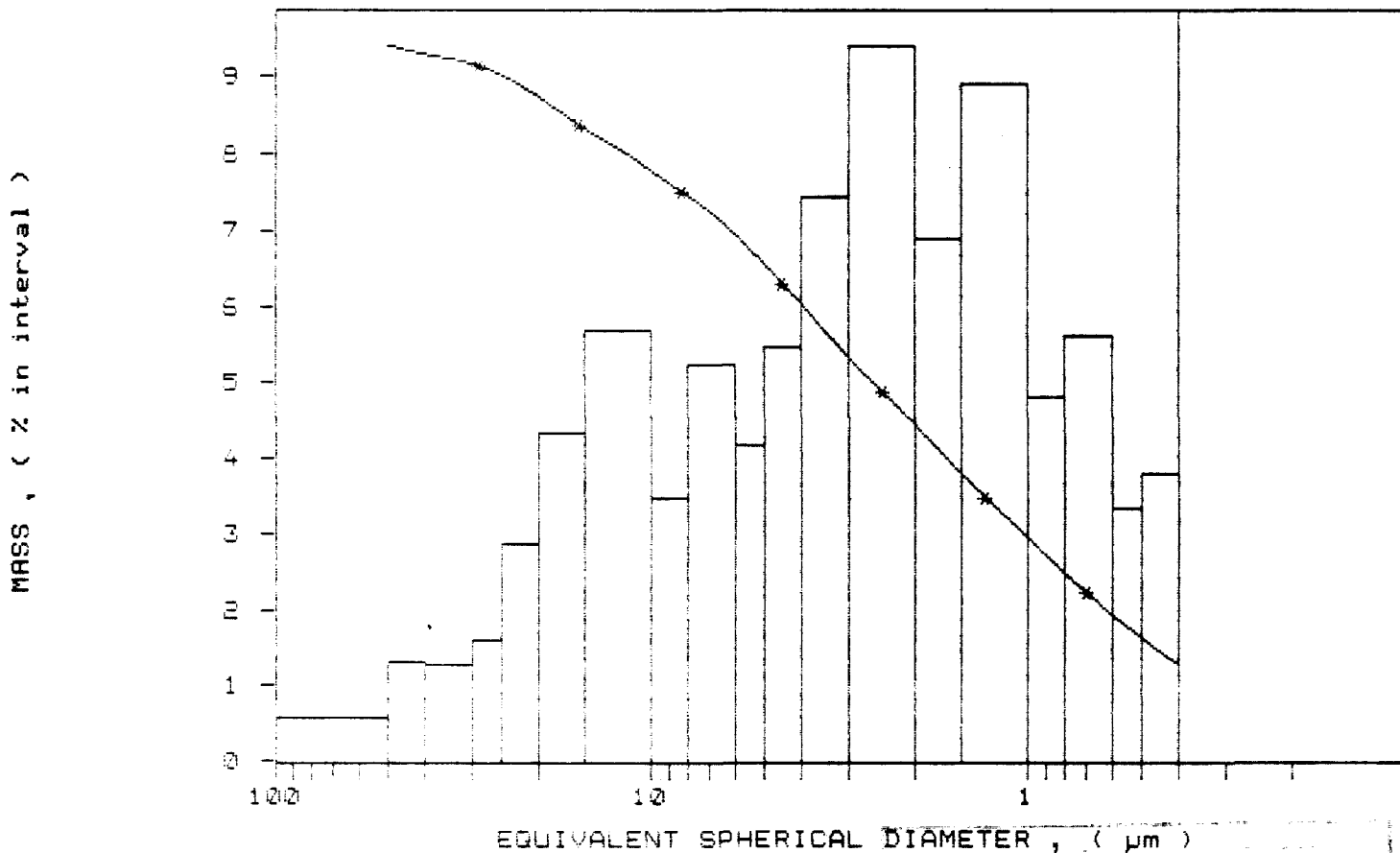
TOT RUN TIME 0:07:05

SAM DENS: 2.6000 g/cc

LIQ DENS: 0.9942 g/cc

LIQ VISC: 0.7263 cp

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



Hole D 88-18 # 15780

SediGraph 5100 V2.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /250
 SAMPLE ID: Hole D 88-18 # 15780
 SUBMITTER: # 39
 OPERATOR: KM
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.2 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 17:03:24 07/15/91
 REPR 17:15:07 07/15/91
 TOT RUN TIME 0:07:10
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7260 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.52 μ m

MODAL DIAMETER: 4.78 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	39.1	0.9
40.00	39.0	0.1
30.00	38.3	0.7
25.00	37.0	1.3
20.00	34.2	2.7
15.00	30.0	4.2
10.00	23.7	6.3
8.00	19.6	3.9
6.00	14.7	5.0
5.00	11.0	3.7
4.00	6.4	4.7
3.00	0.7	5.7
2.00	0.6	6.8
1.50	0.2	4.6
1.00	0.5	6.7
0.80	0.0	3.4
0.60	0.9	4.1
0.50	1.7	3.2
0.40	7.1	4.5

**MINERAL RESEARCH
 CANADA**
 1 INDUSTRIAL BLVD. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5123
 (705) 378-2416
 DATE

SAMPLE DIRECTORY/NUMBER: DATA5 /250

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15780

START 17:08:24 07/15/91

SUBMITTER: # 39

REPT 17:15:07 07/15/91

OPERATOR: KM

TOT RUN TIME 0:07:10

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

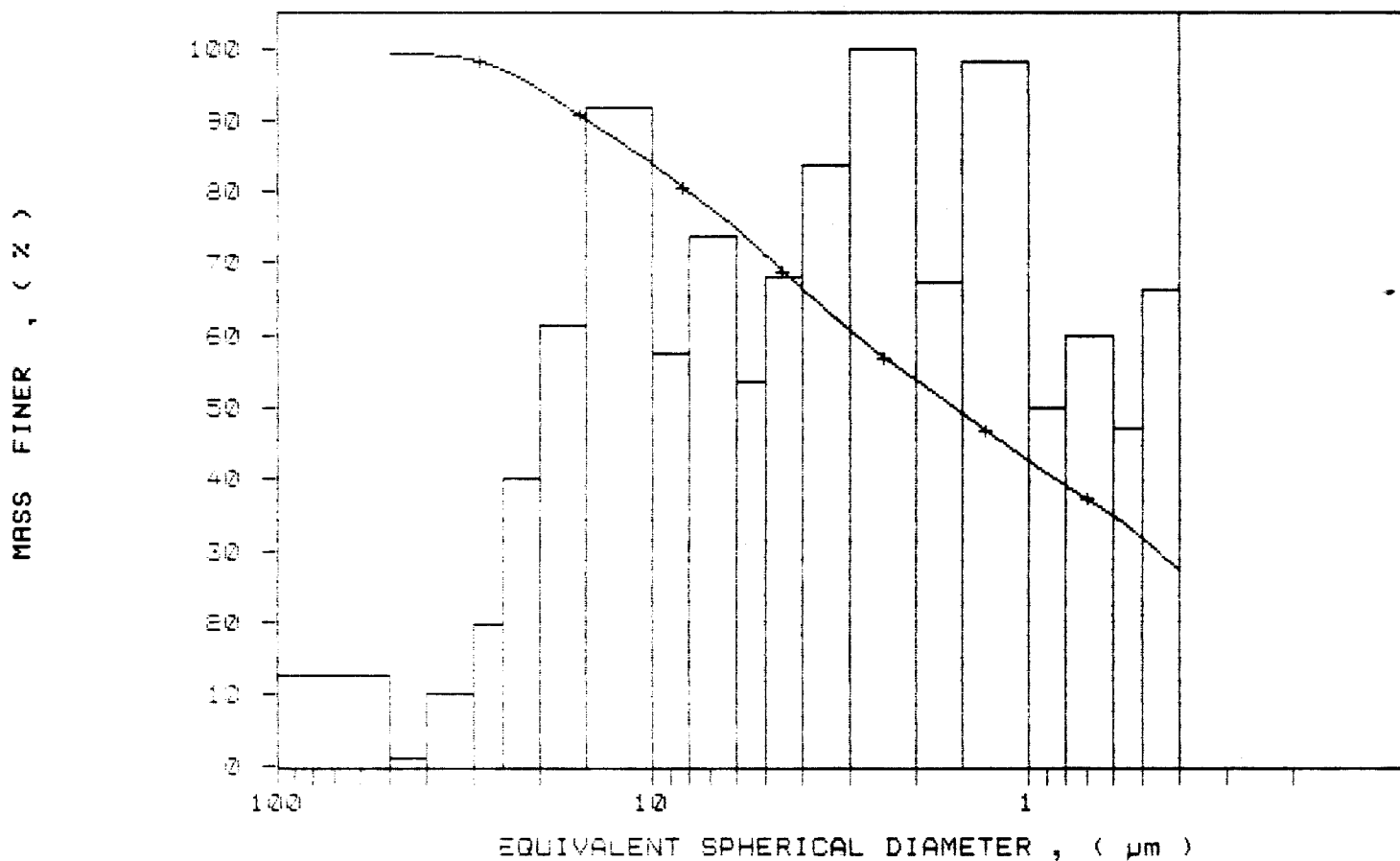
LIQUID TYPE: Water

LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.3 deg C RUN TYPE: High Speed

LIQ VISC: 0.7260 cp

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



SAMPLE DIRECTORY/NUMBER: DATA5 /250

UNIT NUMBER: 1

SAMPLE ID: Hole D 88-18 # 15780

START 17:03:24 07/15/91

SUBMITTER: # 39

REPT 17:15:07 07/15/91

OPERATOR: KM

TOT RUN TIME 0:07:10

SAMPLE TYPE: Clay

SAM DENS: 2.6000 g/cc

LIQUID TYPE: Water

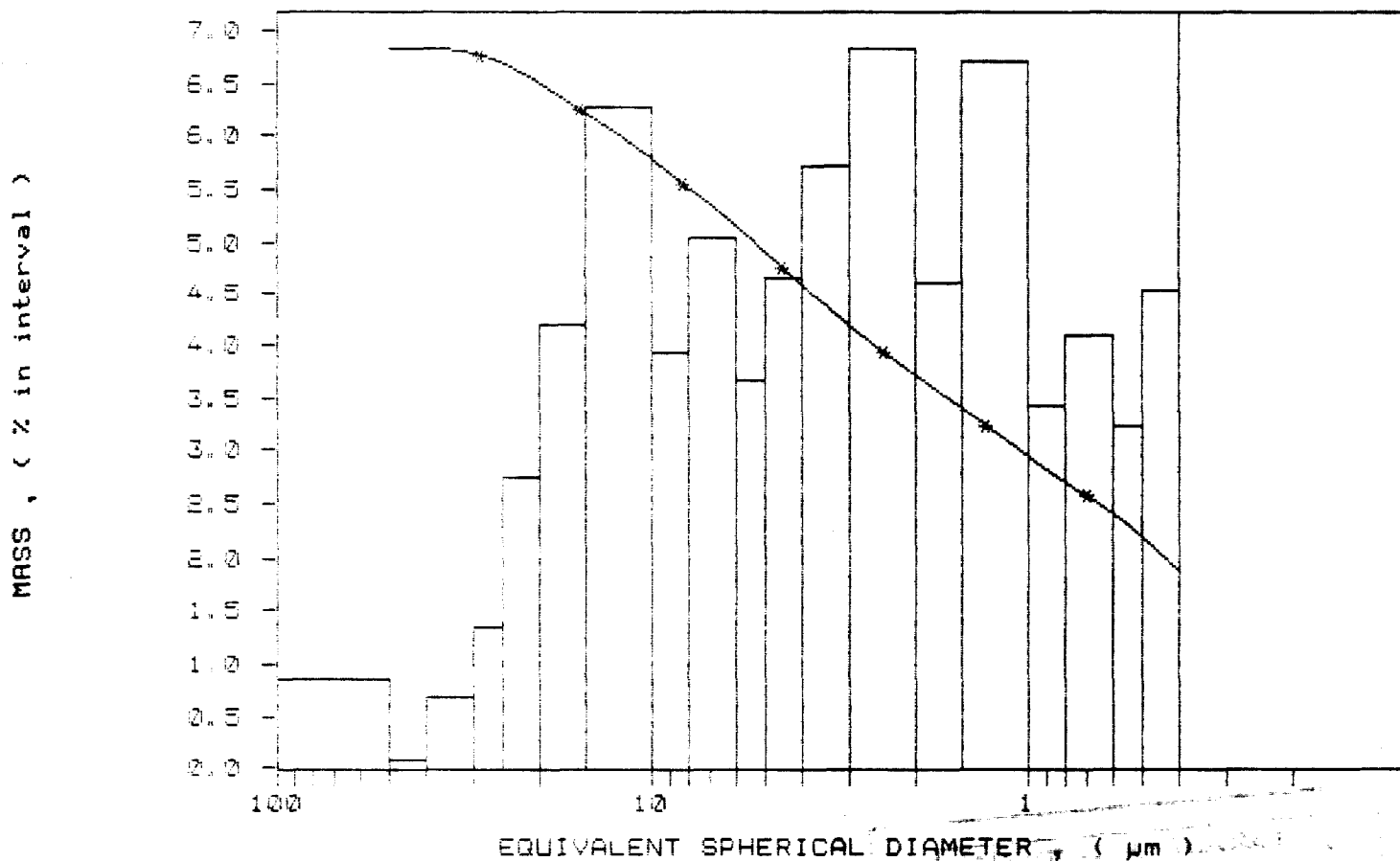
LIQ DENS: 0.9942 g/cc

ANALYSIS TEMP: 34.8 deg C

RUN TYPE: High Speed

LIQ VISC: 0.7260 cp

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



Hole D 88-18 #15781

SediGraph 5100 V2.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA5 /251
 SAMPLE ID: Hole D 88-18 # 15781
 SUBMITTER: # 35
 OPERATOR: Km
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.9 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
 START 17:23:48 07/15/91
 REPT 17:35:32 07/15/91
 TOT RUN TIME 0:07:13
 SAM DENS: 2.6000 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7260 cp

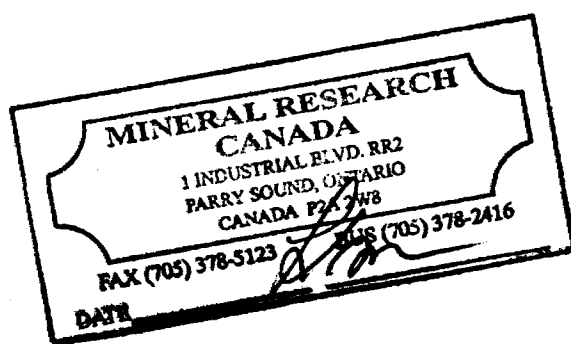
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

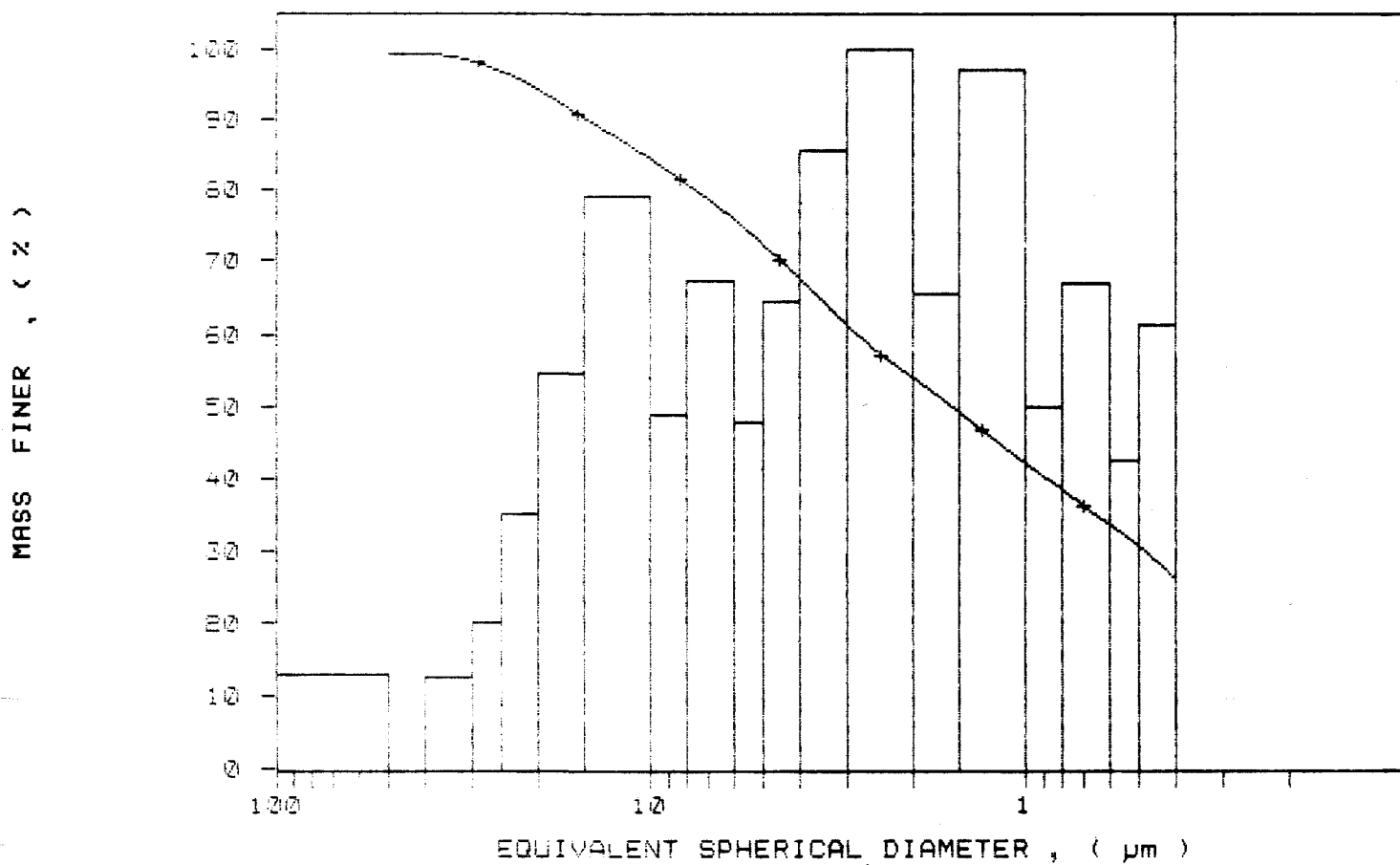
MEDIAN DIAMETER: 1.57 μ m MODAL DIAMETER: 3.51 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.1	0.9
40.00	99.1	-0.1
30.00	98.2	0.9
25.00	96.7	1.5
20.00	94.1	2.6
15.00	90.1	4.0
10.00	84.4	5.6
8.00	80.2	3.6
6.00	75.3	4.9
5.00	72.3	3.5
4.00	67.6	4.7
3.00	61.3	6.3
2.00	54.0	7.3
1.50	49.2	4.8
1.00	42.1	7.1
0.60	38.5	3.7
0.50	35.6	4.9
0.50	30.4	3.1
0.40	25.9	4.5



SAMPLE DIRECTORY/NUMBER: DATAS /251	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-18 # 15781	START 17:23:48 07/15/91
SUBMITTER: # 88	REPT 17:35:32 07/15/91
OPERATOR: Km	TOT RUN TIME 0:07:13
SAMPLE TYPE: Clay	SAM DENS: 2.6000 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9942 g/cc
ANALYSIS TEMP: 34.8 deg C	LIQ VISC: 0.7260 cp
RUN TYPE: High Speed	

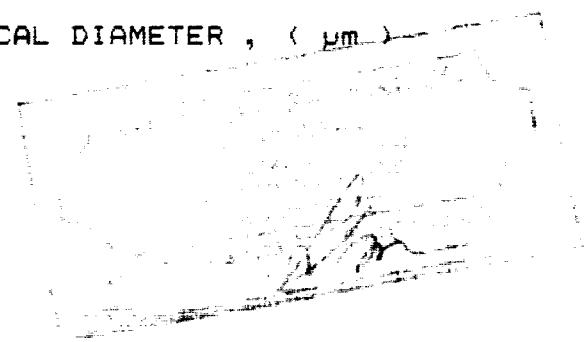
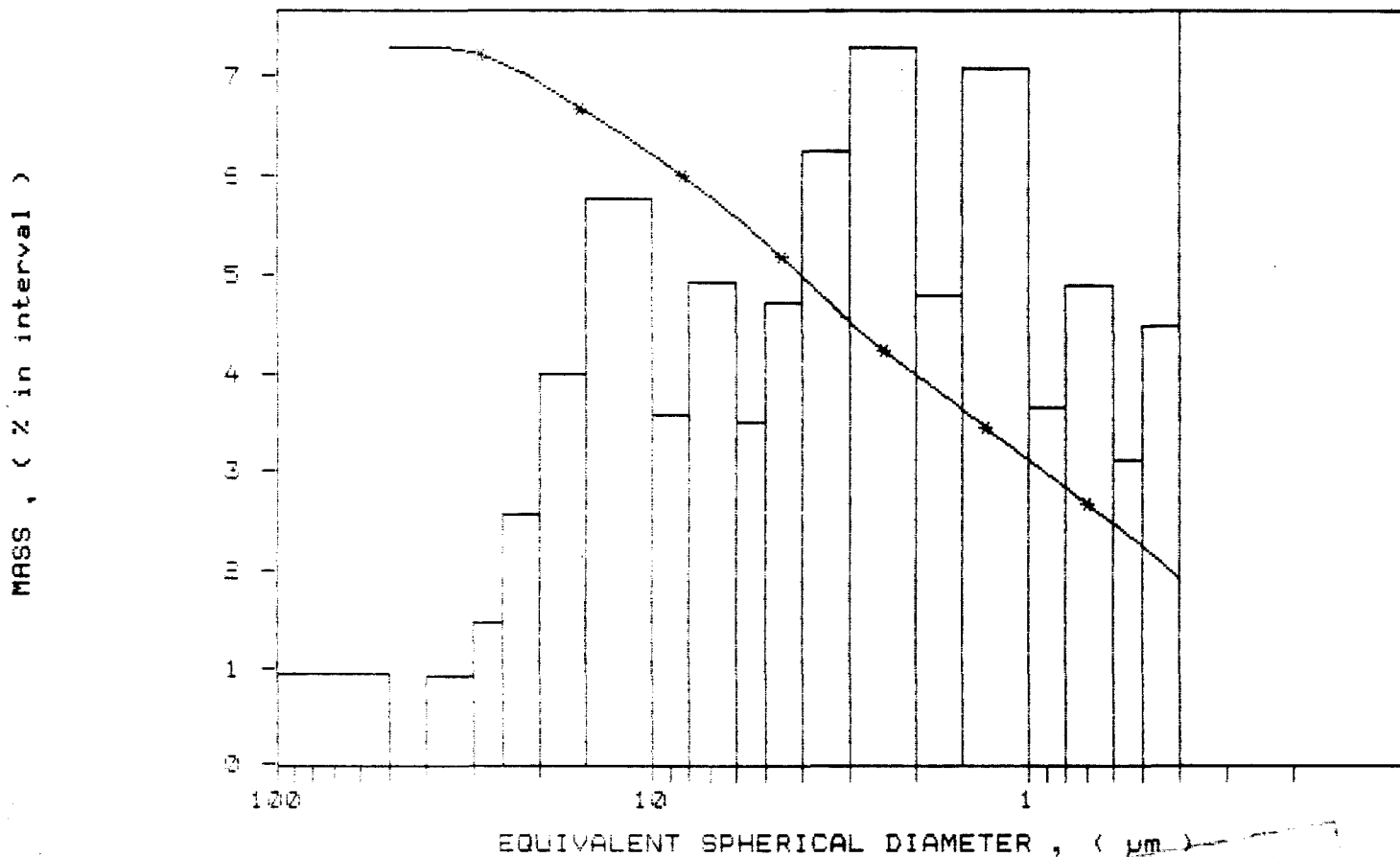
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA5 /251
SAMPLE ID: Hole D 88-18 # 15781
SUBMITTER: # 39
OPERATOR: Km
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.8 deg C RUN TYPE: High Speed

UNIT NUMBER: 1
START 17:23:48 07/15/91
REPT 17:35:32 07/15/91
TOT RUN TIME 0:07:13
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7260 cp

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





Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Branch
Geoscience Approvals Section
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

December 21, 1992

Our File: 2.14847
Transaction #W9260.139

Mining Recorder
Ministry of Northern Development
and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2A7

Dear Sir/Madam:

**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS
P.825808 IN KIPLING TOWNSHIP**

The assessment work credits for Other Authorized Work (Testing) filed under Section 18(9) of the Mining Act Regulations have been approved as originally filed.

The approval date is December 18, 1992.

Yours sincerely,


for Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

LJ/jl
Enclosures:

cc: Resident Geologist
Timmins, Ontario

ONTARIO GEOLOGICAL SURVEY
GIS - ASSESSMENT FILES

JAN 11 1993

RECEIVED

Assessment Files Library
Toronto, Ontario

Report of Work Conducted After Recording Claim

MINING LANDS
Transaction Number
W9260.00/39

Mining Act



900

Personal information collected on this form is obtained under the authority of the M this collection should be directed to the Provincial Manager, Mining Lands, Mini Sudbury, Ontario, P3E 8A5, telephone (705) 670-7264.

- Instructions:
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) GREAT LAKES KAOLIN INC	Client No. 221553
Address #57 145 COLUMA ST. W., WATERLOO, ONT. N2L 3L2.	Telephone No. (519) 746-8101
Mining Division Porcupine	Township/Area Kipling Emerson
M or G Plan No.	
Dates Work Performed From: June 27, 1991	To: Aug 26, 1991

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	RECEIVED
Physical Work, Including Drilling	DEC 17 1992
Rehabilitation	
Other Authorized Work	MINING LANDS BR... Subsection 18 (9)
Assays	
Assignment from Reserve	

RECORDED
OCT 07 1992
Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs \$ 24,080

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Anne Casselman	Mineral Research Canada Inc
Karrina Malmstrom	R.R. #2
	Perry Sound, ON
	P2A 2W8

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date Sept. 29/92	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	---------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying Anne Casselman		
Telephone No. 705 370-2416	Date Sept. 17, 1992	Certified By (Signature) <i>[Signature]</i>

For Office Use Only

Total Value Cr. Recorded \$24,080	Date Recorded OCT. 7/92	Mining Recorder <i>[Signature]</i>	Received Stamp RECEIVED OCT 7 1992 <i>[Signature]</i>
	Deemed Approval Date JAN. 5/93	Date Approved	
	Date Notice for Amendments Sent		

Statement of Costs for Assessment Credit

Transaction No./N° de transaction
W9260.00139

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type		
	Lab. tests	\$6 x 130 = 11,180	
	Secligraph	\$6 x 105 = 9,050	
	Rotap	\$6 x 45 = 2,700	
	Moisture		
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs / Total des coûts directs			

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démoblisation			
Sub Total of Indirect Costs / Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) / Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	DEC 17 1992

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
× 0,50 =	

Certification Verifying Statement of Costs / MINING LANDS BRANCH / Attestation de l'état des coûts

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.


J'atteste par la présente: que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

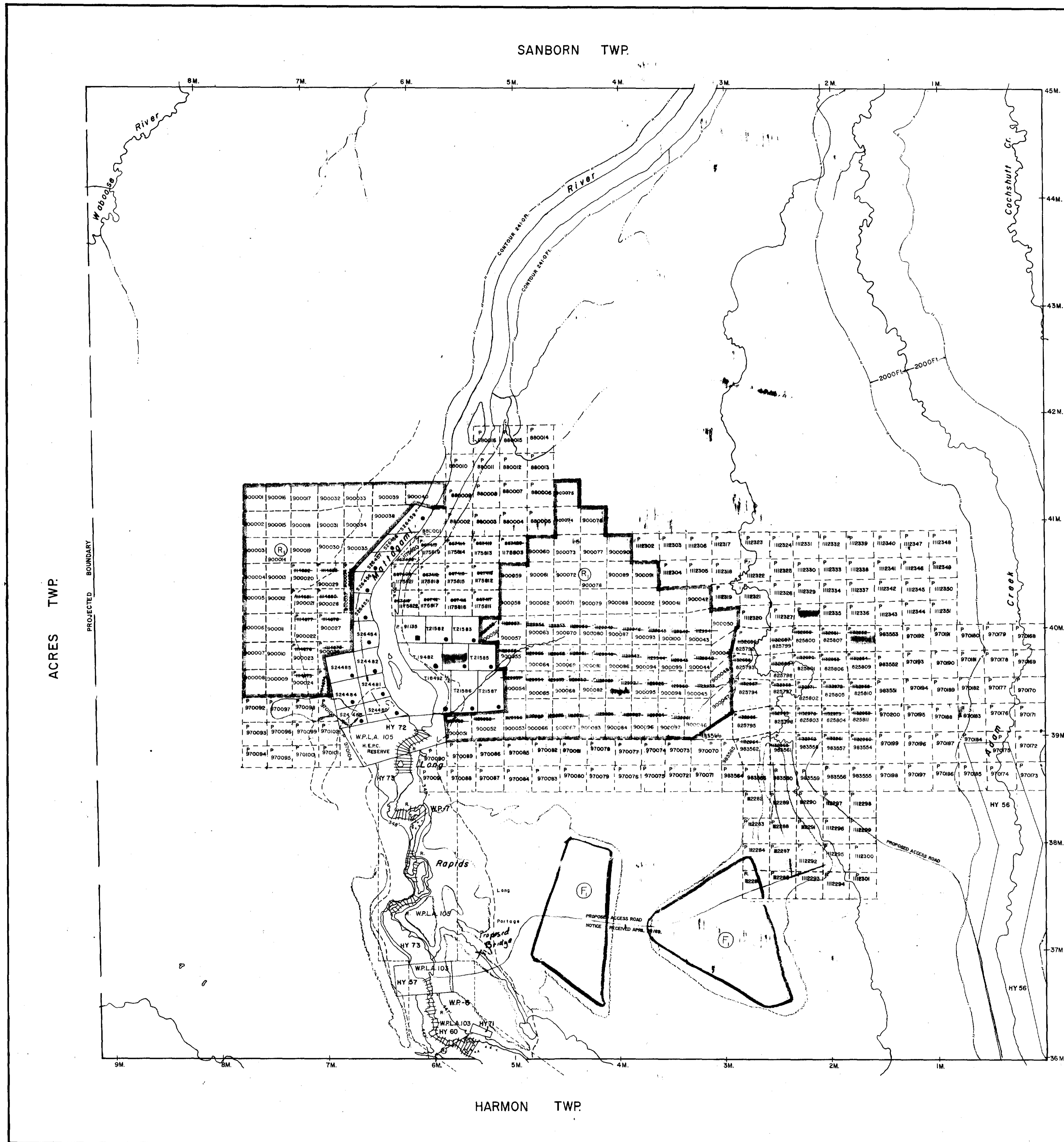
that as PRESIDENT I am authorized (Recorded Holder, Agent, Position in Company)

Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

to make this certification

à faire cette attestation.

Signature:  Date: **SEPT. 29 1992**



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

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

NOTES

FLOODING RESERVATION TO CONTOUR ELEVATION 241-0 FT. FROM GRAND RAPIDS TO TAILWATER OF KIPLING G.S.T. RESERVED FOR ONTARIO HYDRO.
 FLOODING RESERVATION ON ADAM CREEK EXTENDED TO 2000' EACH SIDE OF CENTERLINE OF CREEK, RESERVED FOR ONTARIO HYDRO.

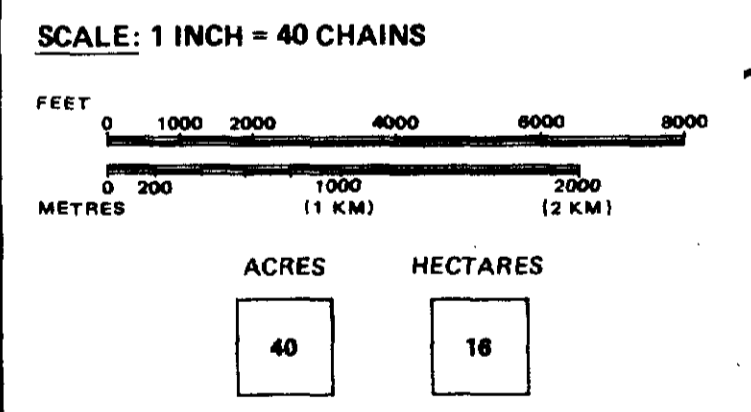
AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

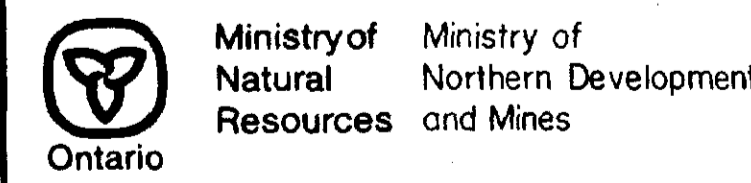
Description	Order No.	Date	Disposition	File
(R) LAND NOT OPEN FOR STAKING SECTION 361 OF THE MINING ACT, R.S.O. 1980				

NOTES

(F) THIS TWP. IS SUBJECT TO FORESTRY ACTIVITIES IN 1990. FURTHER INFORMATION AVAILABLE ON FILE.

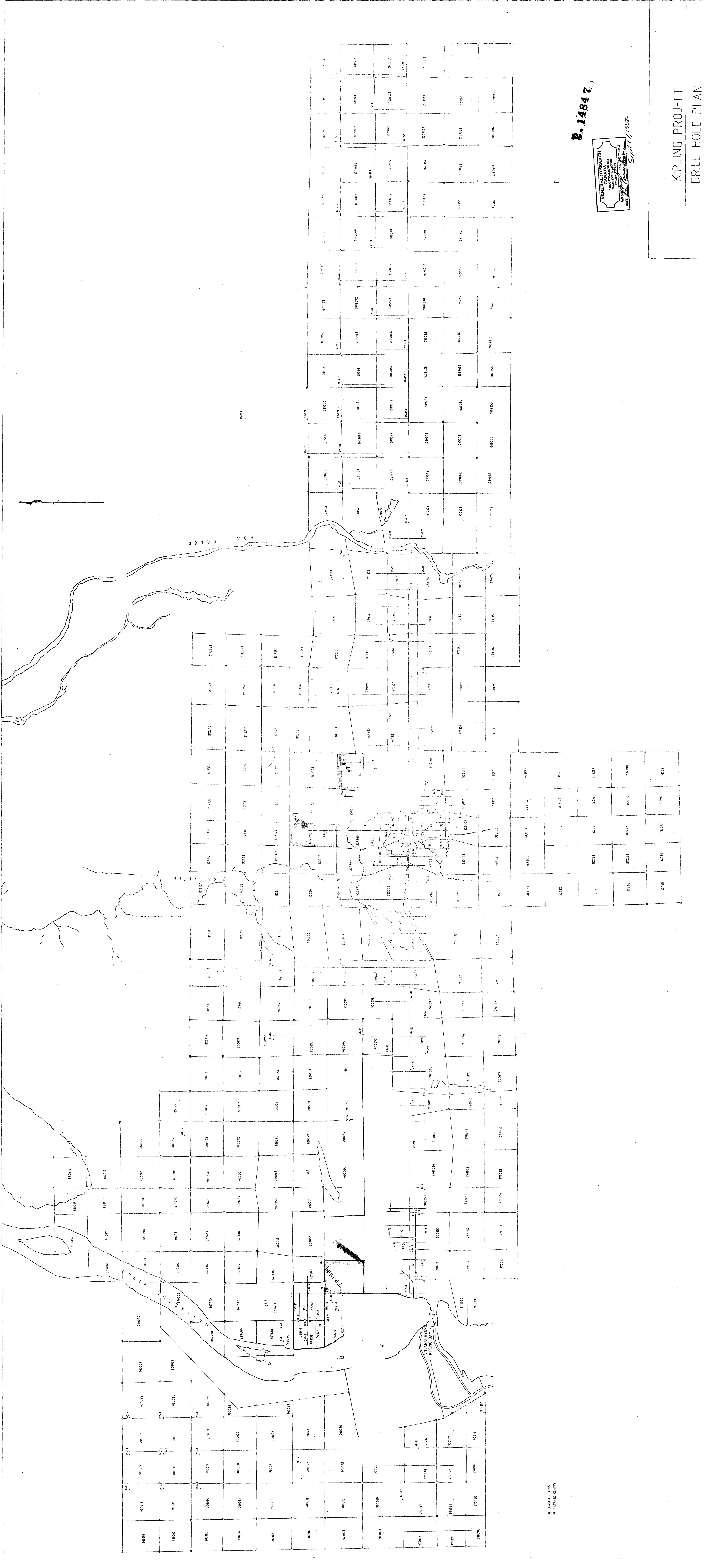


TOWNSHIP OF
KIPLING
 DISTRICT
 COCHRANE
 MINING DIVISION
 PORCUPINE

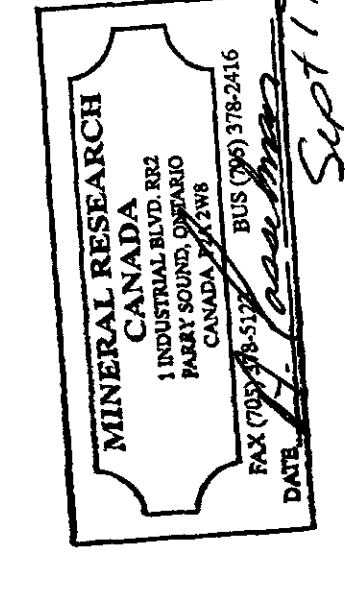


Date JULY 1986 Plan No. G-896
 National Topographic Series
 PLANNED BY ACTING P.L.E. 22/85/88





8.14847



KIPLING PROJECT
DRILL HOLE PLAN

DRAWING NO. 8.14847

• LASTED CLAMS
• FRESH CLAMS

