DOCUMENTATION OF INTERIM CORRECTIVE MEASURES (ICM) FOR EXPLOSIVES DYNO-NOBEL FACILITY PORT EWEN, NEW YORK

Prepared for:

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Salt Lake City, UT 84144

Prepared by:

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UXB International
21641 Beaumeade Circle
Ashburn, Virginia 22011

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1.0 INTRODUCTION

Interim Corrective Measures (ICM) were conducted at the DYNO Nobel Port Ewen Facility to address identified Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) which potentially contained explosive materials. This work was undertaken in accordance with approved Work Plans titled "Interim Corrective Measures, DYNO Nobel, Inc. Port Ewen, New York," (UXB International, February 1995) and "Determination of Explosive Material in Sediment of the Detonation Pond," (UXB International, June 1996). The objective of this work was to screen those SWMUs and AOCs which handled explosive materials for primary and secondary explosives which may be present at reactive concentrations. If reactive concentrations were found, the impacted soils were excavated until the testing results were negative.

This work was conducted to address the health and safety concerns associated with the area prior to further investigation associated with the RCRA Facility Investigation (RFI). The ICM field work was completed during the period July 24, 1996 through October 7, 1996. Explosives material handling was conducted by personnel from UXB International who are specifically trained in the excavation, handling, and disposal of explosive materials. SWMUs addressed under the ICM Work Plans were identified from the Resource Conservation and Recovery Act (RCRA) Facilities Assessment Report (RFA Report) (A.T. Kearney Inc. October, 1993; Revised by ECKENFELDER INC. December 1994). Site maps, aerial photographs and photographs of the SWMUs taken during the RFA Visual Inspection were used to locate the various units. These photographs were obtained from the New York State Department of Environmental Conservation (NYSDEC) and copies are also filed at the DYNO Nobel facility in Port Ewen, New York.

A total of 17 SWMUs were screened by UXB for primary and secondary explosives. Primary explosives are defined as materials used to initiate a detonation reaction. At this DYNO Nobel site, these include Lead azide, Mercury fulminate, Lead styphnate and Diazodinitrophenol (DDNP). Secondary explosives do not initiate a detonation reaction on their own and are thus less sensitive to heat, impact and friction as compared to the primary explosives. Secondary explosives addressed at the DYNO site include Tetryl, RDX, and PETN.

2.0 FIELD METHODS

The sampling locations at each SWMU were chosen based on the operational history of that unit. At each SWMU, individual point source locations suspected of containing explosive materials were identified and sampled first. Sampling consisted of one set of surface samples taken approximately 0-2 inches and, in the same location, a set of subsurface samples collected from approximately 2-8 inches. These samples are distinguished with an "S" prefix for surface samples and an "SS" prefix for the deeper subsurface samples. This sampling strategy was used as explosives have a tendency to decompose in direct sunlight. The deeper sample at each location would better address this reactive issue. The number of sampling locations varied depending upon the size of each SWMU and the operational history. Sample locations at each SWMU/AOC were selected and locations surveyed by UXB for horizontal control.

Before sampling took place, the area was completely saturated with water to desensitize it. Sampling personnel wore cotton lab coats and face shields during sampling. Small garden trowels, which were also wetted down, were used to scoop the soil samples into laboratory cleaned glass jars. The samples were then brought to DYNO's on-site laboratory annex which was designated for use by UXB/ECKENFELDER INC. during the project. A small amount of soil was removed from the sample jar and placed in an aluminum dish (any debris, such as rocks or metal were removed). The sample was then dried in an oven for no less than 6 hours at 82°C. The drying of the samples prior to testing was employed to increase the sensitivity of the laboratory testing. Once dried, the samples were subjected to friction, impact, and calorimeter testing as described below.

The friction test was conducted in accordance with the Manual of Tests and Criteria for The Transportation of Dangerous Goods (49 CFR, para. 173.57) and consisted of a platform and swinging metal arm. At one end of the arm is a friction wheel and a 4,000 gram test weight. A small amount of sample was placed on a narrow friction plate which lays flat on the platform. The arm was then cocked in an upright position then released. The arm slid down and the wheel strikes the sample creating friction. If explosives were present a spark and a loud bang were detected. This procedure is repeated six times for each sample. The presence of explosives is confirmed only if all six repetitions initiate a reaction.

The impact test was also conducted in accordance with the above Manual of Tests and Criteria and consisted of an upright tower-like device with a one kilogram sliding test weight. A small amount of sample was placed in a metal cup and placed at the base of the impact tester. The weight was then raised to a height of 100 cm and dropped onto the sample cup. If explosives were present, a muffled bang was heard along with a distinct gunpowder like smell. This procedure is similar to the friction test in that it is repeated six times for each sample to confirm the presence of explosives.

The friction and impact testing on the dried samples provided a conservative evaluation as to the presence of explosives in reactive concentrations in the soil. The methodology calls for all six test runs to initiate a reaction for the presence of explosive quantities of materials to be confirmed. These tests, however, only indicate the presence of explosive material and do not identify the specific compound. Therefore, a Differential Scanning Calorimeter (DSC-7) was used to confirm the friction and impact test results and identify the specific explosive compound when present.

The Differential Scanning Calorimeter compares the samples thermal energy potential to a standard using platinum resistive heaters and thermometers. Each of the explosive compounds has a unique energy signature which is compared to the sample results for identification. Samples subjected to calorimeter testing included composite samples (identified by a prefix COMP) and individual samples identified by the sample number only. Composite samples from a given SWMU were run when the friction and impact tests for the individual samples were negative and there was no other indication that explosives were present. Individual samples were tested on the calorimeter when friction and impact testing suggested the presence of explosives or there were other indications (i.e., visual) that explosives were present. In general, this resulted in composite samples run on the surface samples and individual analyses conducted on the subsurface samples.

The effectiveness and accuracy of the three test methods (friction, impact, and calorimeter) were evaluated and confirmed by testing small samples of Lead styphnate, Lead azide, and PETN which were provided by DYNO Nobel.

If a positive result was found on a surface or subsurface sample from any of the SWMU/AOCs, the following procedure was implemented: The area was resampled in a one-foot radius, or to the limit of visual contamination, around the area where explosives were detected. If these samples were positive, then the process was repeated until the sample results were negative for explosives. The soils within the defined area were then excavated after saturating the soils with water. The excavated material was placed in either a 55 gallon poly drum or 5 gallon pail, both used with static proof liners, (drums and liners were provided by DYNO Nobel). The excavated soil was then blended with inert material to a concentration of no more than 1 percent by volume of primary explosive or no more than 10 percent by volume of secondary explosives. Confirmation sampling was performed on each drum to ensure explosives were sufficiently blended with the inert materials. Drums were placed in one of DYNO Nobel's hazardous waste storage magazines for later disposal.

The above procedures pertain to all SWMU/AOCs except SWMUs 38N and 38S, which are the suspected north and south grenade disposal areas. At these SWMUs, the area was divided into specific measured grids. Once each grid was marked, a geophysical survey was performed by sweeping each grid with a magnetometer. Each detected anomaly was dug up, identified, and potentially explosive material placed in 5 gallon pails.

3.0 ICM DOCUMENTATION

Documentation of the ICM activities at each individual SWMU or AOC are presented in the following Appendices and are summarized in Table 1. Appendix A presents several calorimeter graphs showing peaks of known explosives. These were used as standards to compare to samples collected during this project. Each SWMU/AOC addressed during the Interim Corrective measures is then presented in numerical order in the subsequent appendices. Each appendix begins with a cover page identifying the SWMU/AOC location, including a sketch of the SWMU/AOC with the sample locations identified. This is followed by a brief summary of the work performed at that location. The next page presents selected photos showing sample locations of that particular SWMU/AOC. Original photographs are maintained by DYNO Nobel, ECKENFELDER INC., and UXB International. The remainder of the data included for each SWMU are the calorimeter, friction, and impact test work sheets. The first pages are the results from calorimetric testing. Sample dates and ID numbers are included, followed by the abbreviations of the explosives. If a specific explosive was present, it is indicated by a "Y" (yes) or a "N" (no). This is followed by the actual DSC graphs showing the actual peaks if explosives were present. Following the graphs are the friction/impact results. Positive or negative results are indicated by either a yes or no.

TABLE 1

SUMMARY OF INTERIM CORRECTIVE MEASURES
DYNO-NOBEL FACILITY
PORT EWEN, NEW YORK

SWMU/AOC	Date Completed	No. of Samples Analyzed	Primary Explosives Present (Y/N)	Secondary Explosives Present (Y/N)	Approximate Volume of Explosives Removed	Comments
1 - Former Detonation Pond	9/26/96	30	N	Y	See Comments	Caps and related debris were placed in two-5 gallon pails combined with similar material from SWMU 38N and 38S
9 - Waste Powder Catch Basin Building 2037	8/13/96	8	N	N	NA	
10 - Waste Powder Catch Basin Building 2048	8/19/96	25	N	N	NA	
11 - Waste Powder Catch Basin Building 2049	8/14/96	32	N	N	NA	
13 - Former Waste Powder Catch Basin Building 3001	8/19/96	17	N	N	NA	
29 - Drainage Ditch Downgrade of Building 2049	8/19/96	20	N	N	NA	
33 - Mercury Fulminate Tanks Area	8/14/96	16	N	N	NA	
36 - Pellet House Septic Tank	8/20/96	10	N	Y	See Comments	Explosive powders are removed periodically by DYNO Nobel
38N - Suspected Grenade Disposal Area (North)	8/2/96	NA	N	N	See Comments for SWMU 1	

TABLE 1 (CONTINUED)

SUMMARY OF INTERIM CORRECTIVE MEASURES
DYNO-NOBEL FACILITY
PORT EWEN, NEW YORK

SWMU/AOC	Date Completed	No. of Samples Analyzed	Primary Explosives Present (Y/N)	Secondary Explosives Present (Y/N)	Approximate Volume of Explosives Removed	Comments
38S - Suspected Grenade Disposal Area (South)	10/4/96	NA	N	N	See Comments for SWMU 1	
39 - Former Wastewater Discharge Area Building 2009	8/19/96	22	N	N	NA	
40 - Pilot Line Condensate Collection Sump Building 2062 (Destroyed)	8/16/96	19	N	N	NA	
41 - Detonator Production Building Condensate Collection Sumps	9/8/96	75	Y	Y	Nineteen- 55 gallon poly drums and 14-5 gallon metal pails containing explosives/inert material were removed	
42 - Steam Collection Containers Building 2026	8/15/96	12	N	N	NA	
46 - Vacuum Line Condensate Collection Sump Building 2059 (Destroyed)	8/16/96	6	N	N	NA	
47 - Lead Scrubber and Loading Rooms Building 2058	8/15/96	12	N	N	NA	
48 - Mercury Fulminate Area	9/23/96	167	Y	Y	Four- 5 gallon pails containing explosives/inert material were removed	

TABLE 1 (CONTINUED)

SUMMARY OF INTERIM CORRECTIVE MEASURES
DYNO-NOBEL FACILITY
PORT EWEN, NEW YORK

SWMU/AOC	Date Completed	No. of Samples Analyzed	Primary Explosives Present (Y/N)	Secondary Explosives Present (Y/N)	Approximate Volume of Explosives Removed	Comments
AOC-C - Open Detonation Test Pit	8/14/96	18	N	N	NA	
AOC-D - Detonation Test Building	8/14/96	18	N	N	NA	

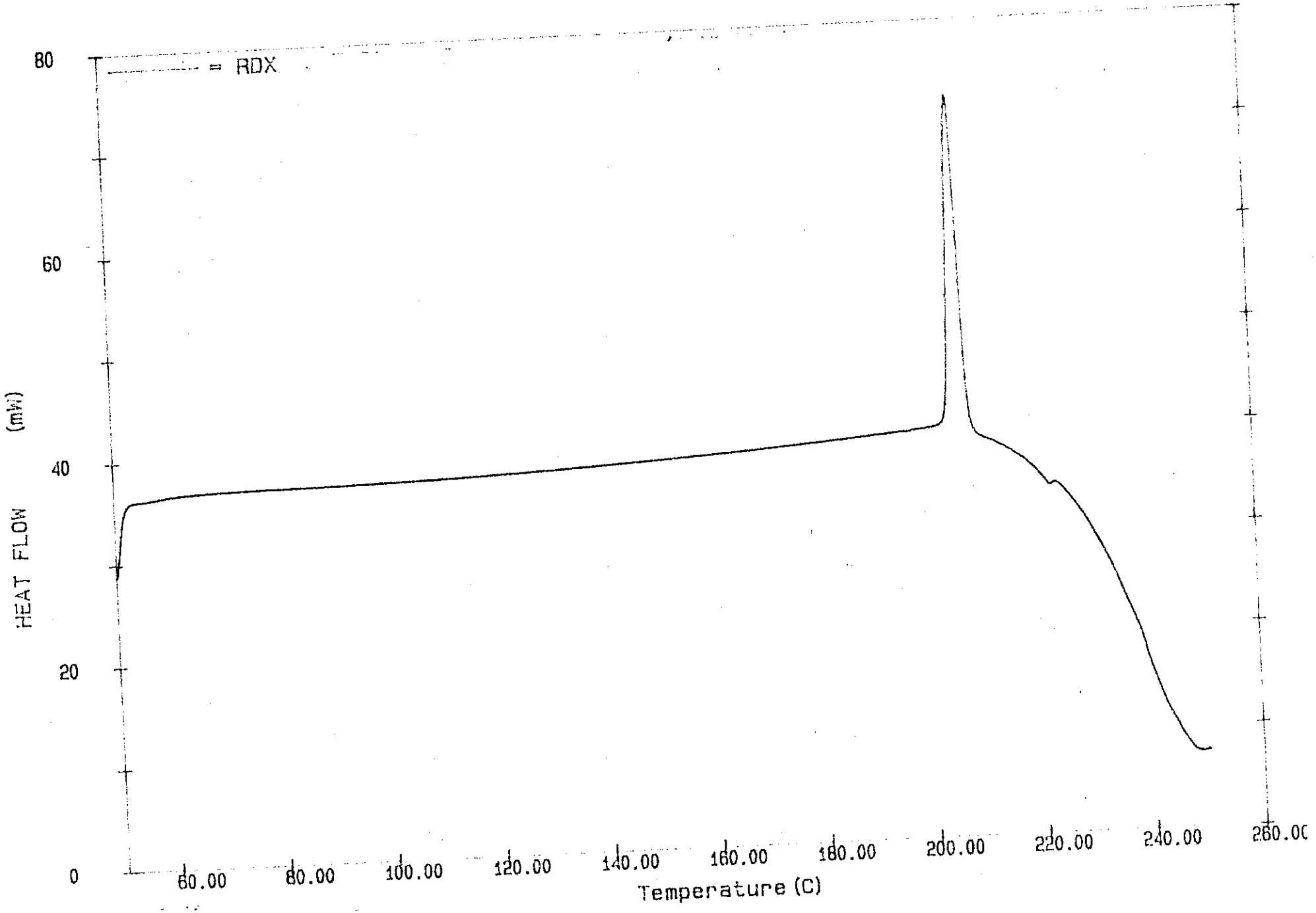
NA - Not Applicable

4.0 CONCLUSIONS

The objectives of the Interim Corrective Measures Work Plan were met for the specific SWMU/AOCs. These areas are now safe for additional investigation activities. However, standard safety practices for working on an explosives site should be followed by those performing additional work in these areas.

APPENDIX A

CALORIMETER STANDARDS



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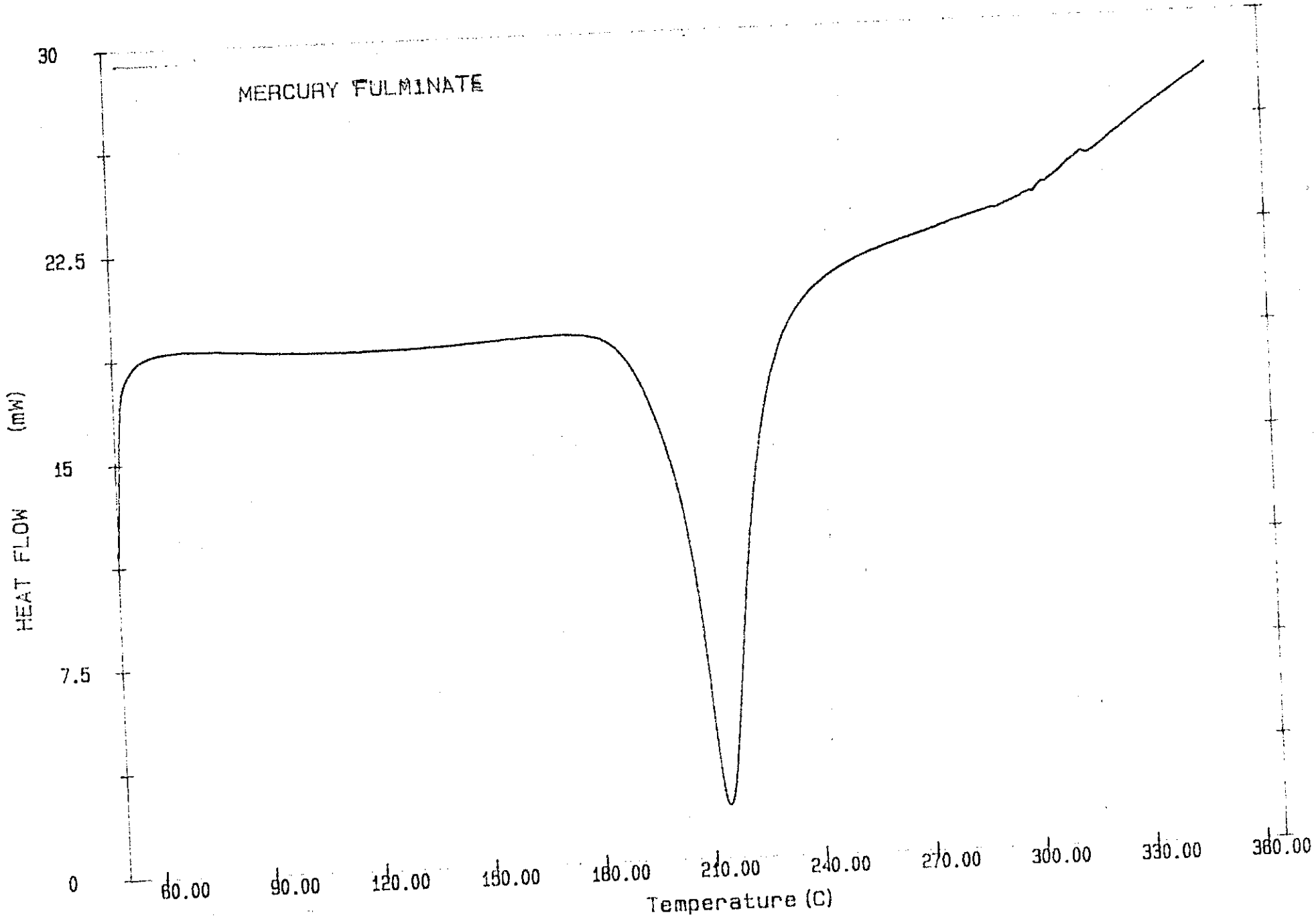
Sample Wt: 1.150 mg

PERKIN-ELMER DSC7



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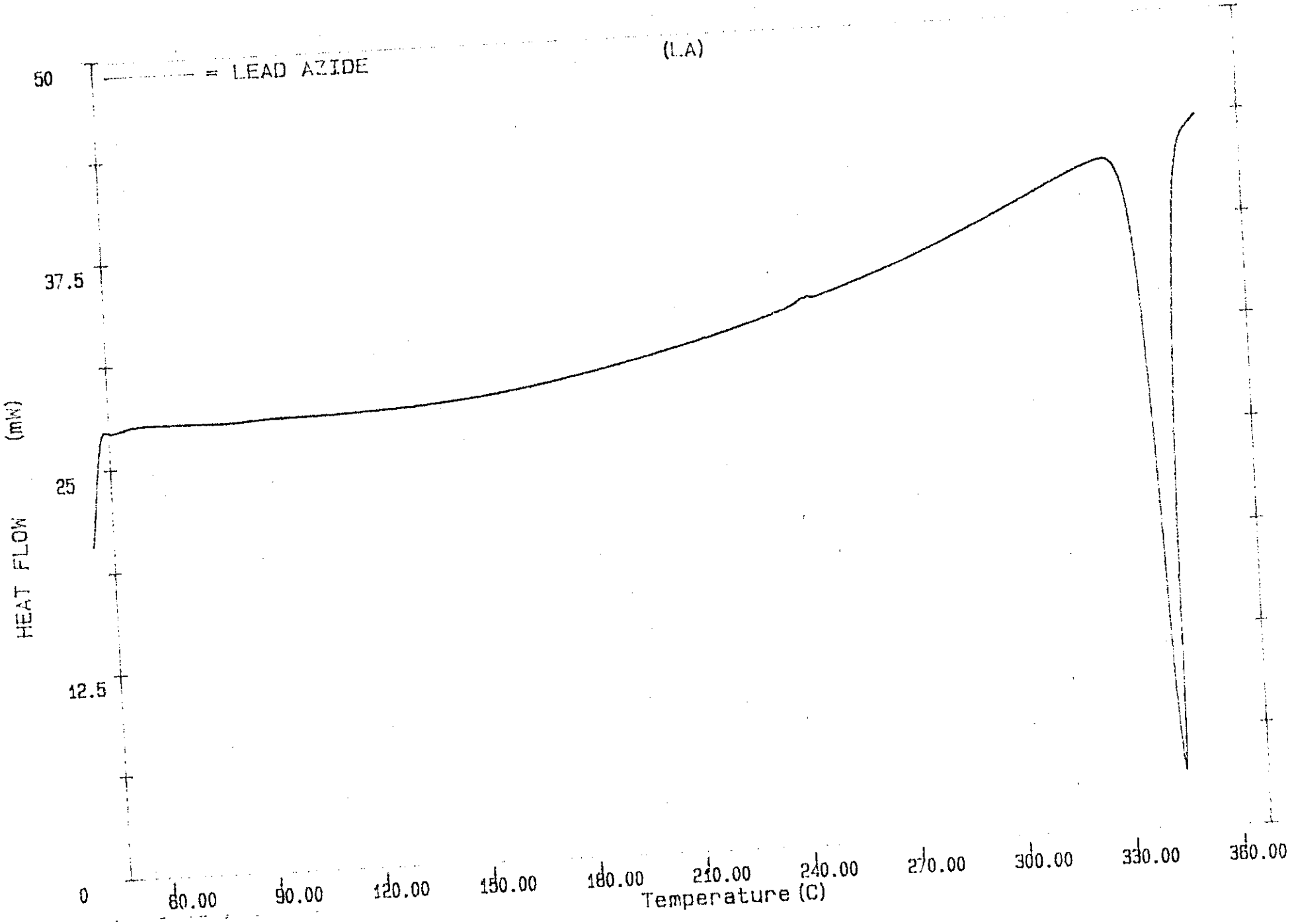

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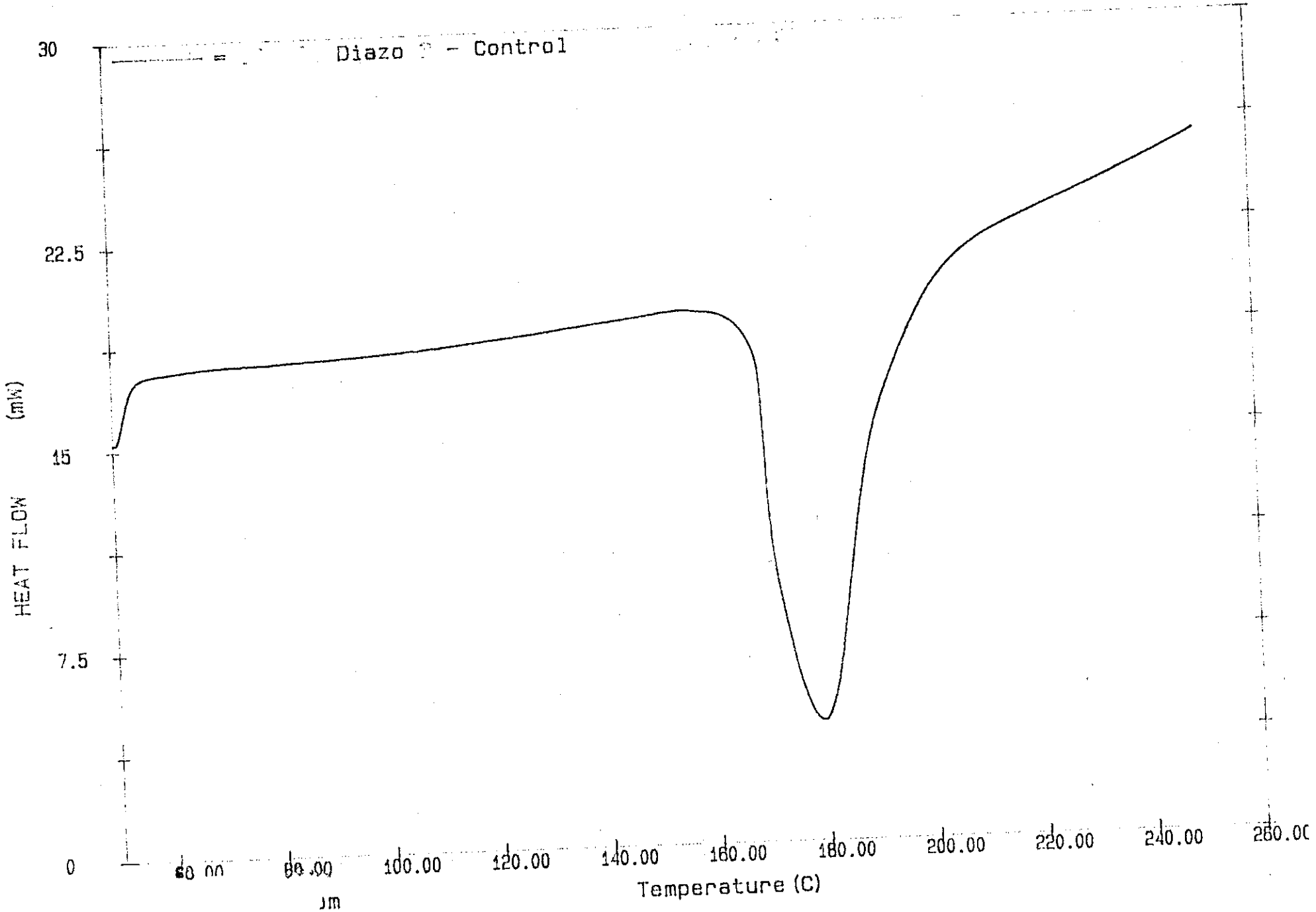
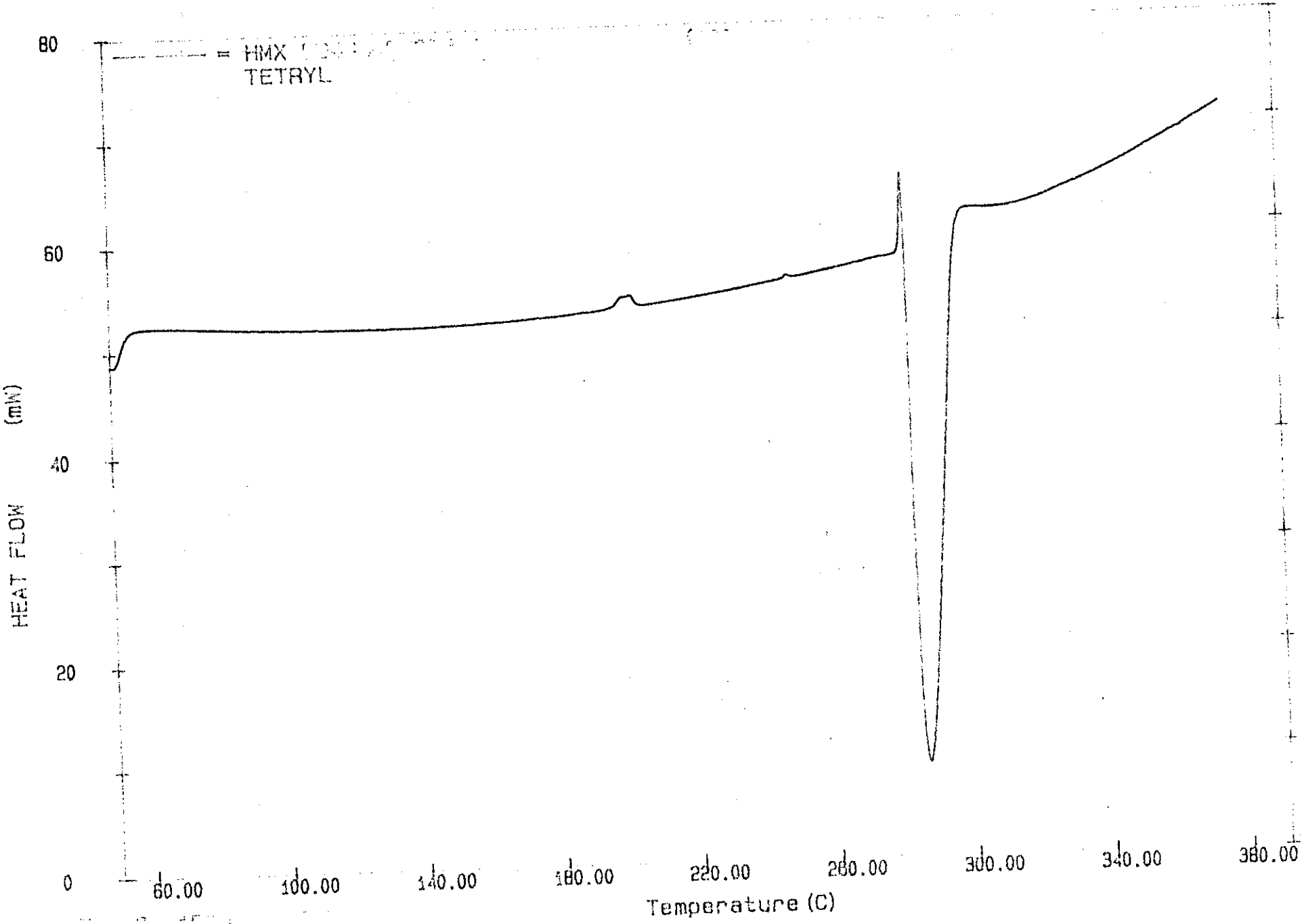

Diazo ? - Control
30
22.5
15
7.5
0
HEAT FLOW (mW)
60.00
80.00
100.00
120.00
140.00
160.00
180.00
200.00
220.00
240.00
260.00
Temperature (C)
Scanning Rate: 20.0 C/min
Sample Wt: 0.550 mg
PERKIN-ELMER DSC7



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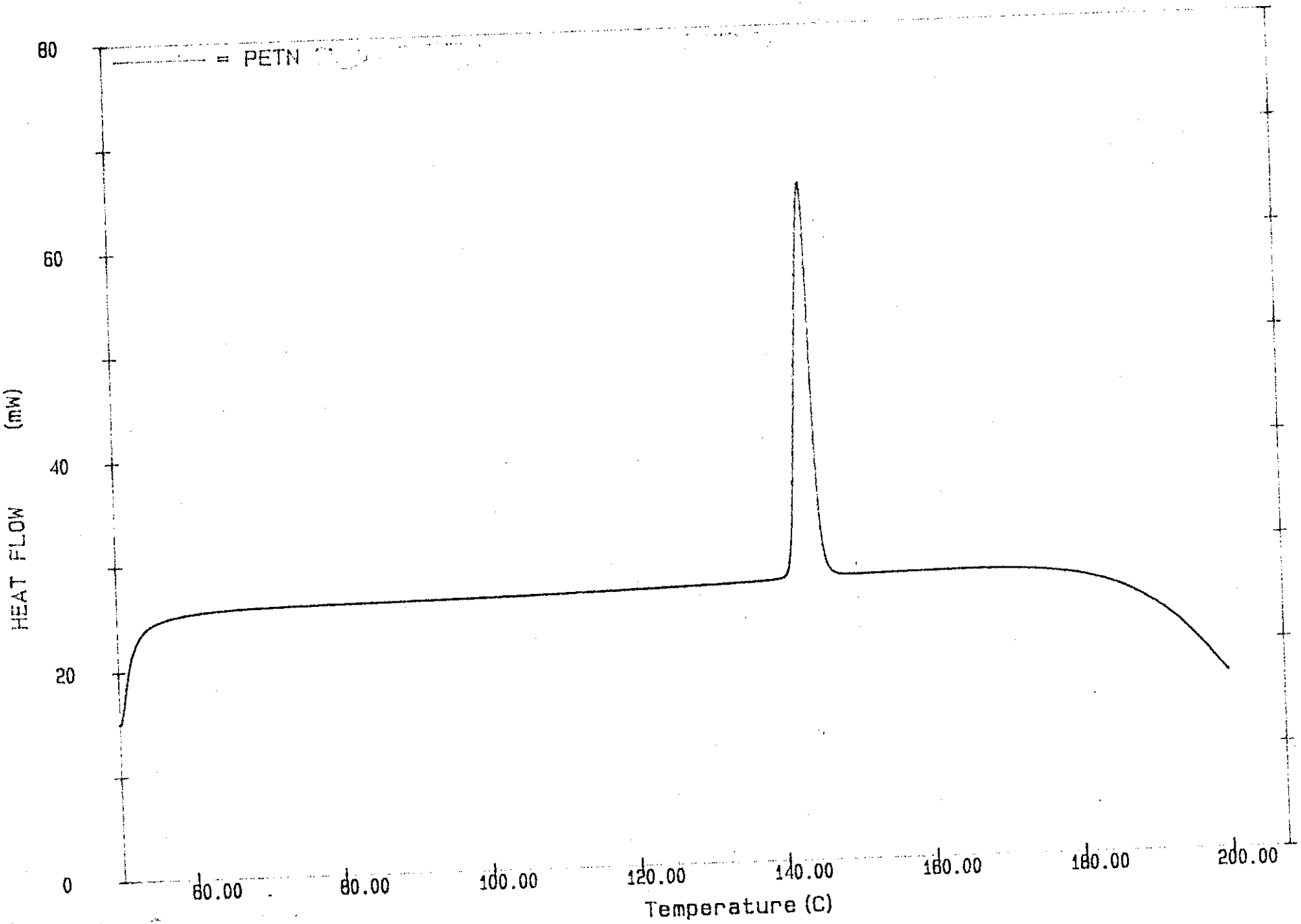


Scanning Rate: 20.0 C/min
Sample Wt: 0.100 mg

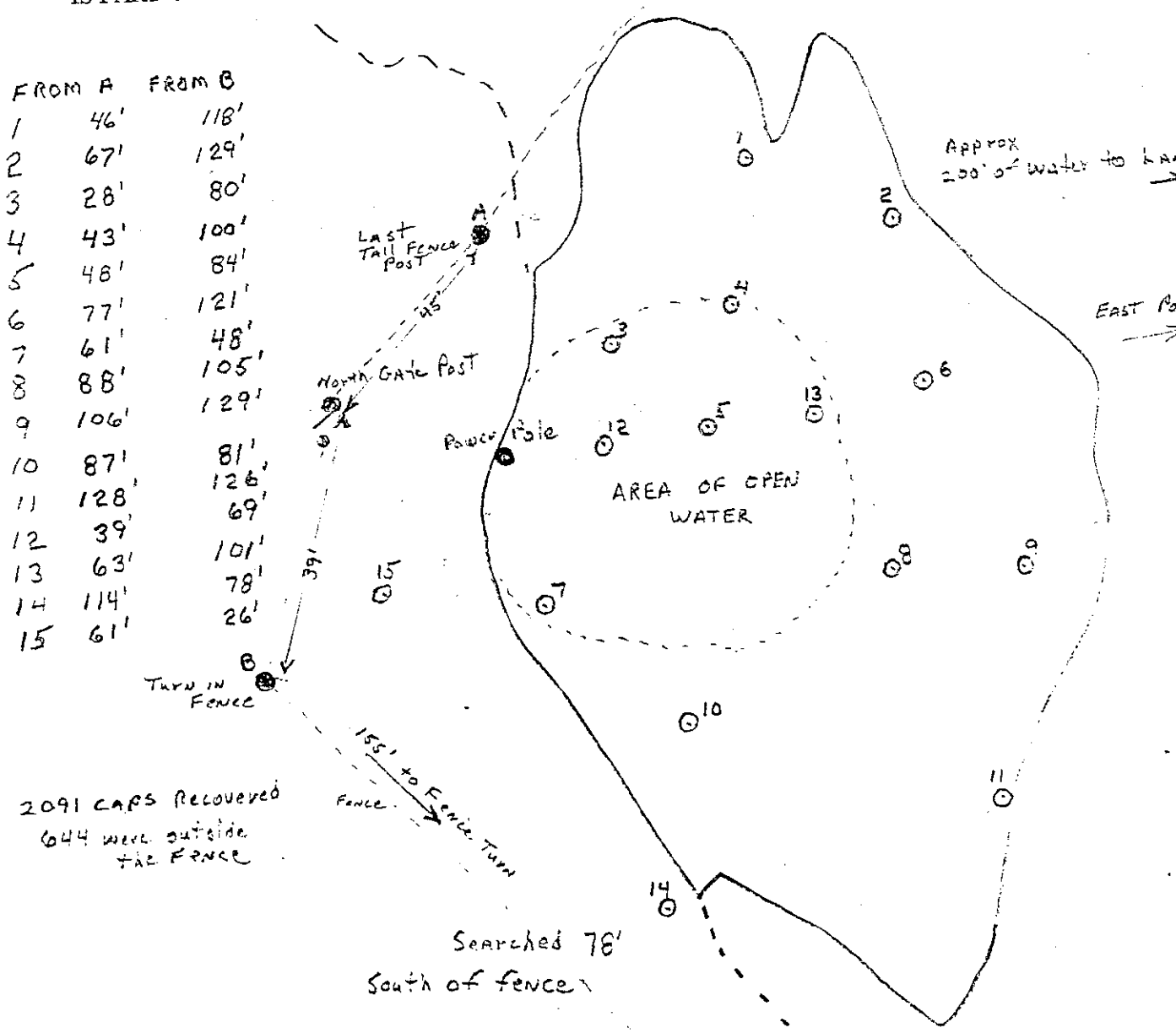
PEK TN-ELMER DSC7

APPENDIX B

SWMU 1 - FORMER DETONATION POND (CLOSED)

SWMU 1

DETONATION POND, LOCATED DUE EAST OF THE MAIN GATE IN CLOSE PROXIMITY OF PLANTASIE CREEK. REACTIVE HAZARDOUS WASTES GENERATED AT THE FACILITY, WHICH INCLUDE OFF-SPECIFICATION EXPLOSIVES AND PROCESS WASTE, WERE DETONATED UNDERWATER IN THE POND. THE UNIT IS PART OF A PHASE II INVESTIGATION CONDUCTED BY NYSDEC.



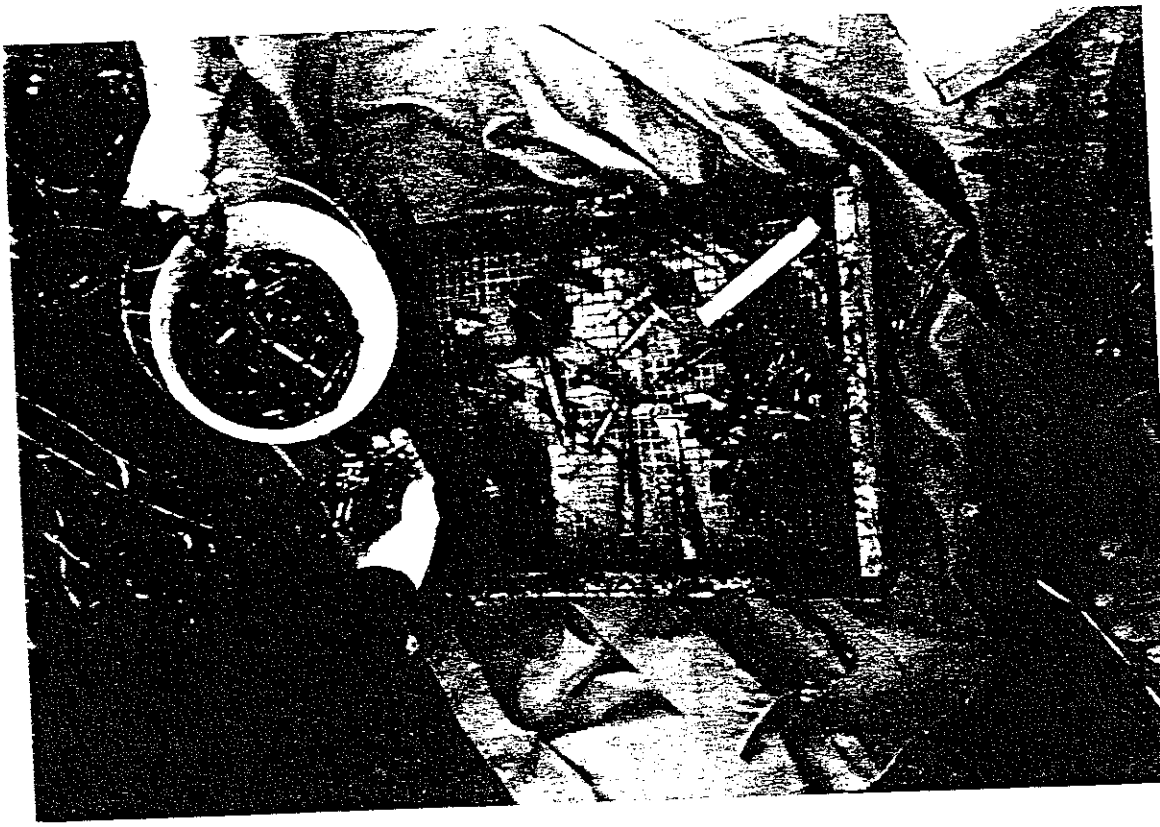
SUMMARY OF ACTIVITIES FOR SWMU 1

Implementation of the ICM work plan for SWMU 1 consisted of taking surface (0-6") and subsurface (1.5-2.0') samples at 14 locations (see map). The first set of 13 samples were of the pond sediment, while the 14th set was collected from the shoreline. An additional sample, 15, consisted of gray powder also found along the shoreline. Samples of the pond sediment were collected by a UXB technician working from a small boat. A 3/4" PVC tube was pushed into the sediment a minimum of two feet and then removed with the sediment core intact, and corked at both ends. Sampling points were marked with a piece of 1/2" PVC for future reference. The sample collected from the shoreline (Sample Location 14) was obtained with a hand auger, while Sample 15 was collected from the surface with a trowel.

The collected samples were first passed under a metal detector to check for small detonators or caps which were removed by UXB as required. Representative samples of the sediment were then jarred for explosives testing at the on-site laboratory. In addition, sediment/soil corresponding to the 0-6" and 1.5-2.0' intervals, at sampling locations one through ten and fourteen, were placed separately into laboratory cleaned glass jars for metals analysis. These samples were sent to ECKENFELDER INC. laboratory in Nashville, Tennessee. These analytical results will be used to guide future remedial activities and will be reported under separate cover.

Explosives testing for individual samples collected at locations 1 through 14 were negative using all three test methods. Sample 15 (gray powder along the shoreline), however, tested negative for friction and impact but positive for secondary explosives on the calorimeter. Dyno-Nobel was informed of these results and their personnel removed the powder.

Additional work at SWMU 1 included a geophysical survey around the perimeter of the pond. Using metal detectors, the survey extended 78 feet beyond the fence on the south side of the pond and to a distance of approximately 15 feet inland along the western shoreline. UXB recovered approximately 2,000 blasting caps and related material. These items were placed into two-5 gallon pails mixed with water, and turned over to Dyno-Nobel for storage pending disposal.





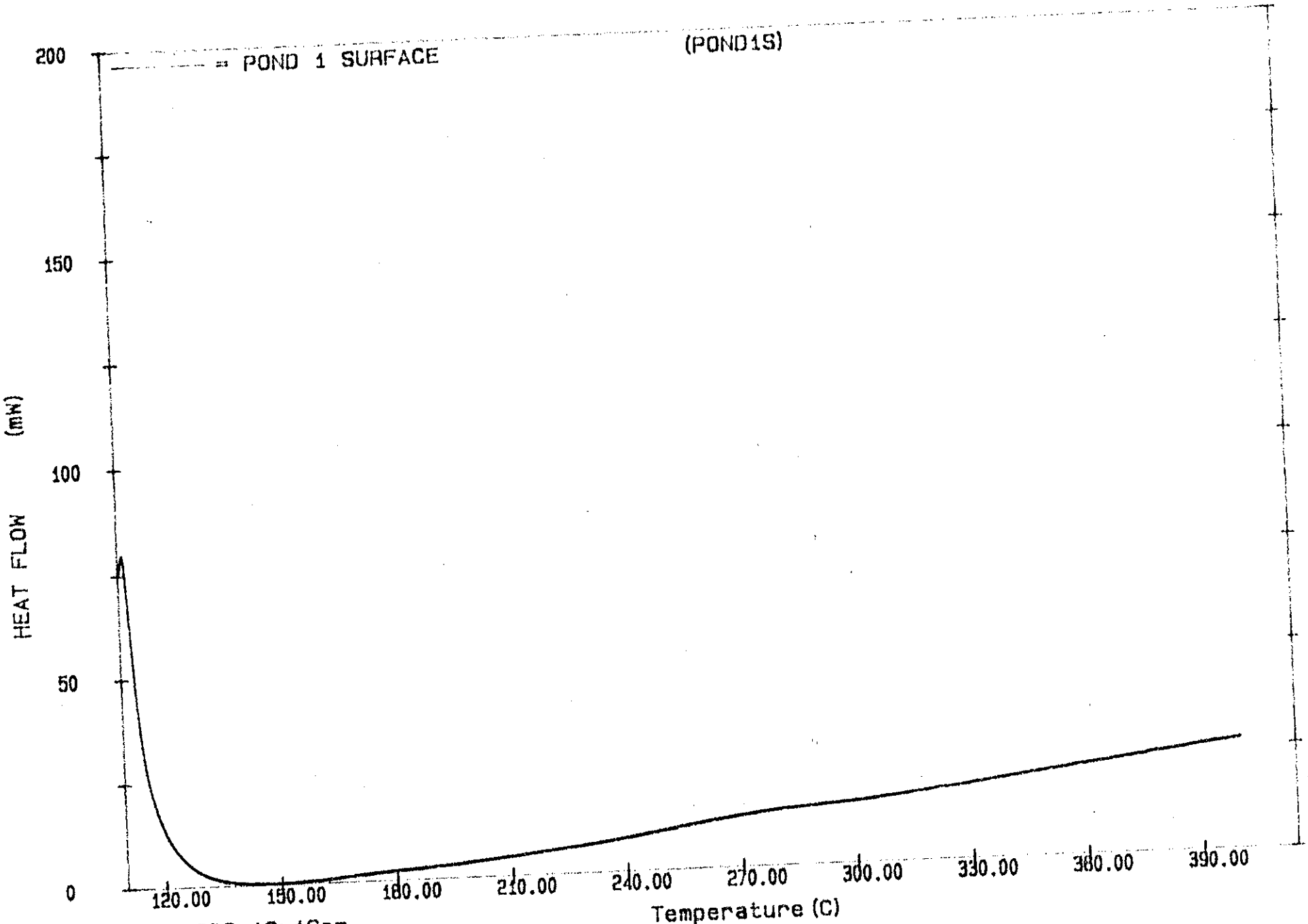
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-18-96	SWMU 15							
	1							
	2	N	N	N	N	N	N	N
	3	N	N	N	N	N	N	N
	4	N	N	N	N	N	N	N
	5	N	N	N	N	N	N	N
	6	N	N	N	N	N	N	N
	7	N	N	N	N	N	N	N
	8	N	N	N	N	N	N	N
	9	N	N	N	N	N	N	N
	10	N	N	N	N	N	N	N
9-19-96	11	N	N	N	N	N	N	N
	12	N	N	N	N	N	N	N
	13	N	N	N	N	N	N	N
	14	N	N	N	N	N		

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



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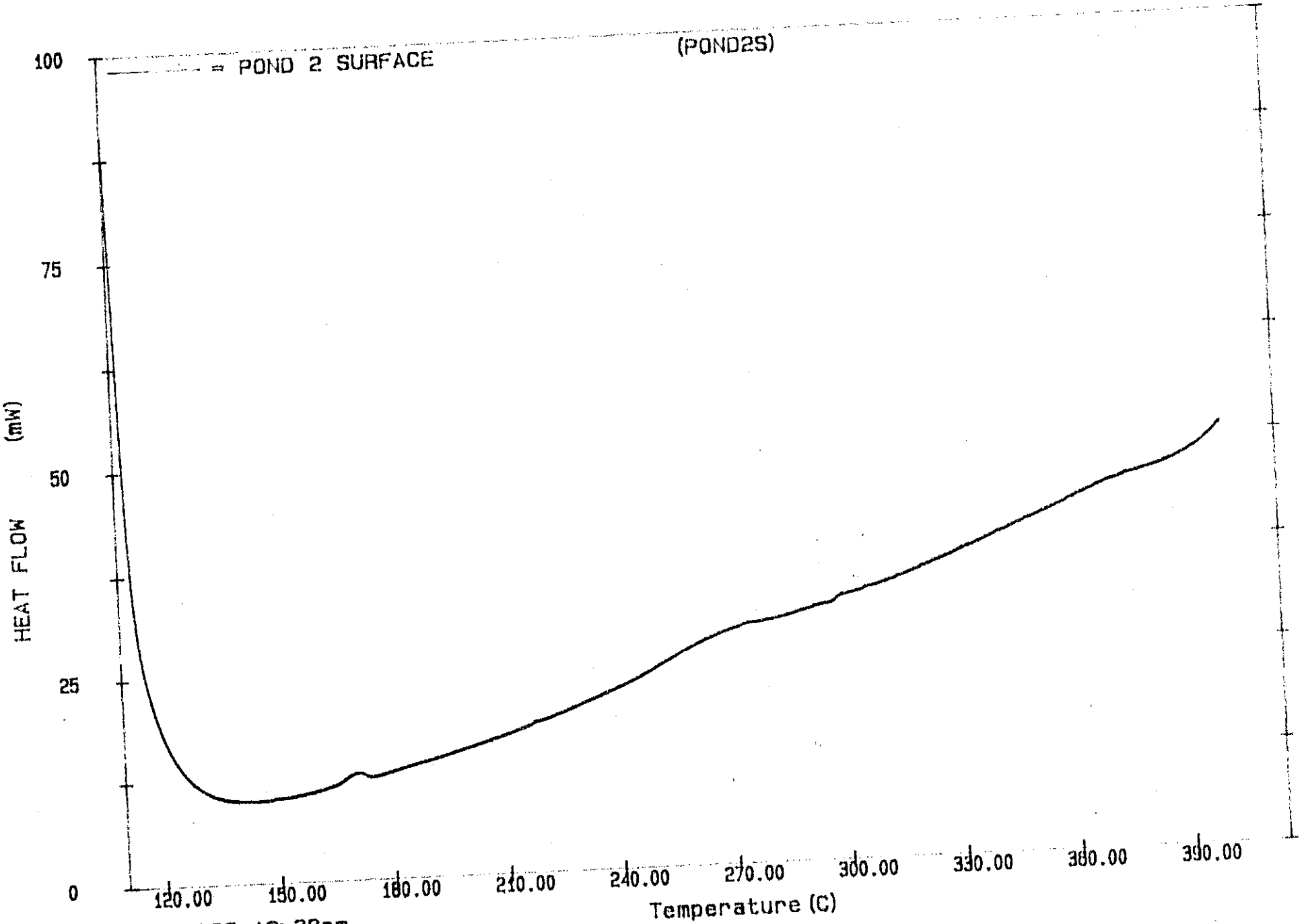
PERKIN-ELMER DSC7



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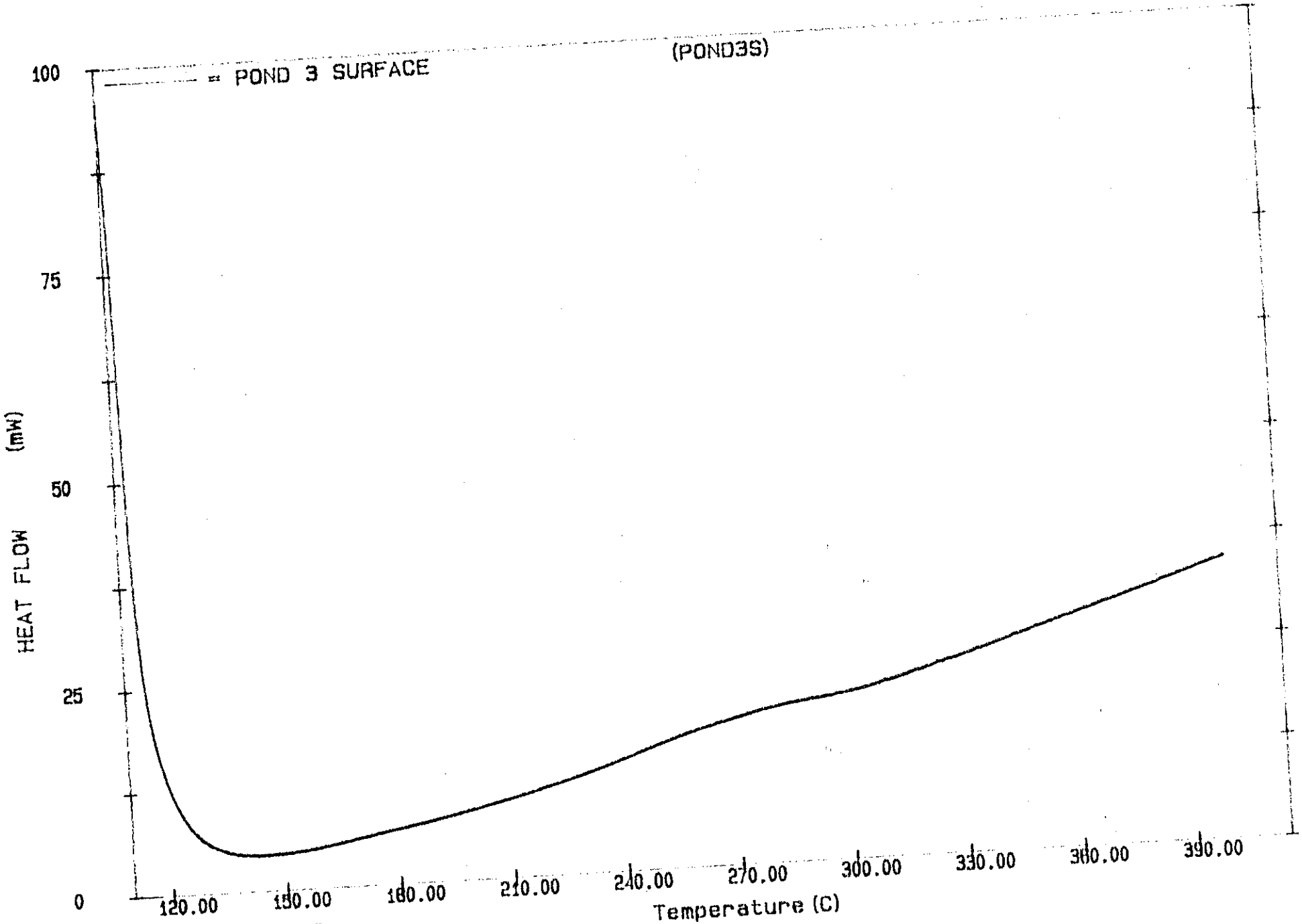

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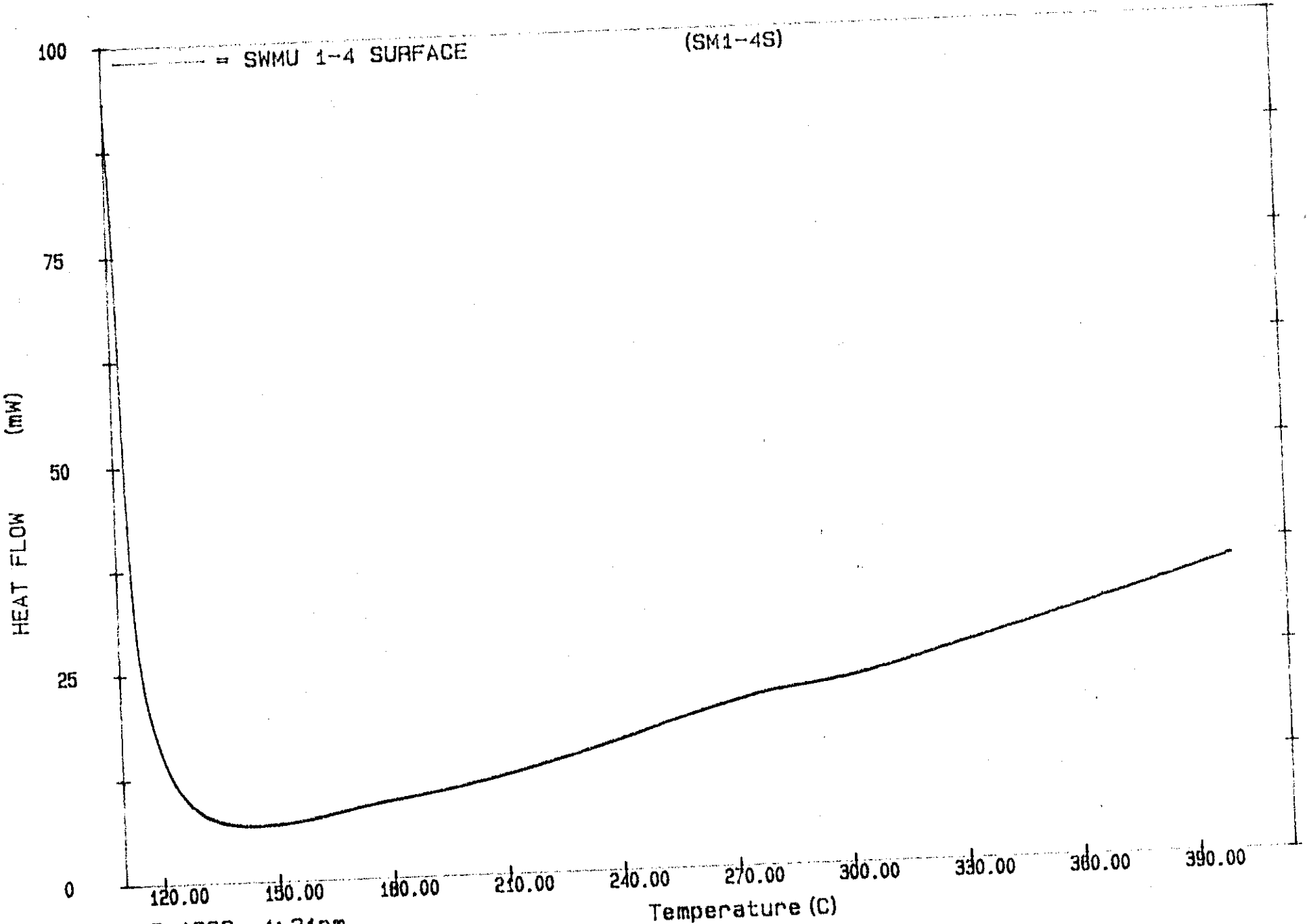

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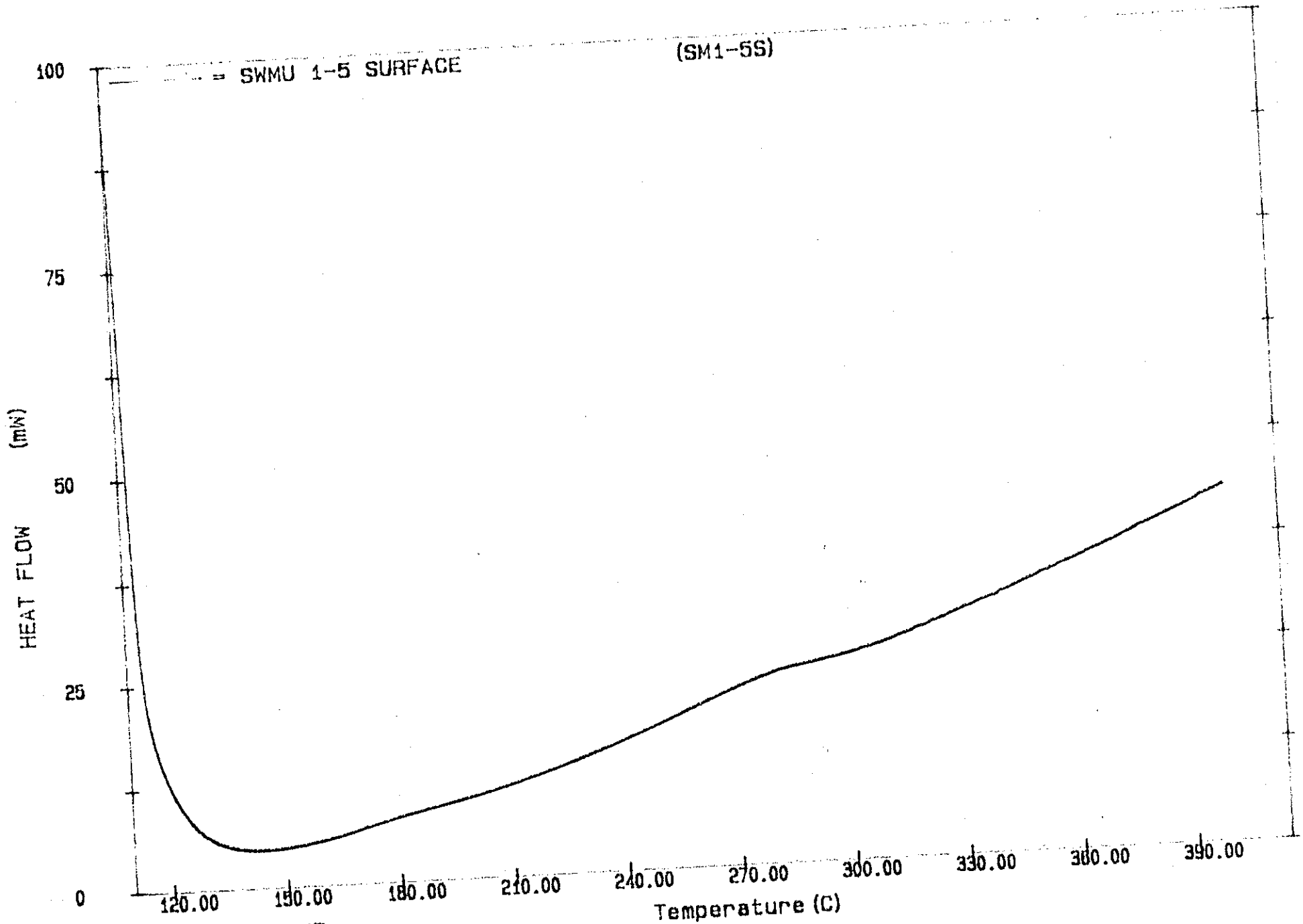

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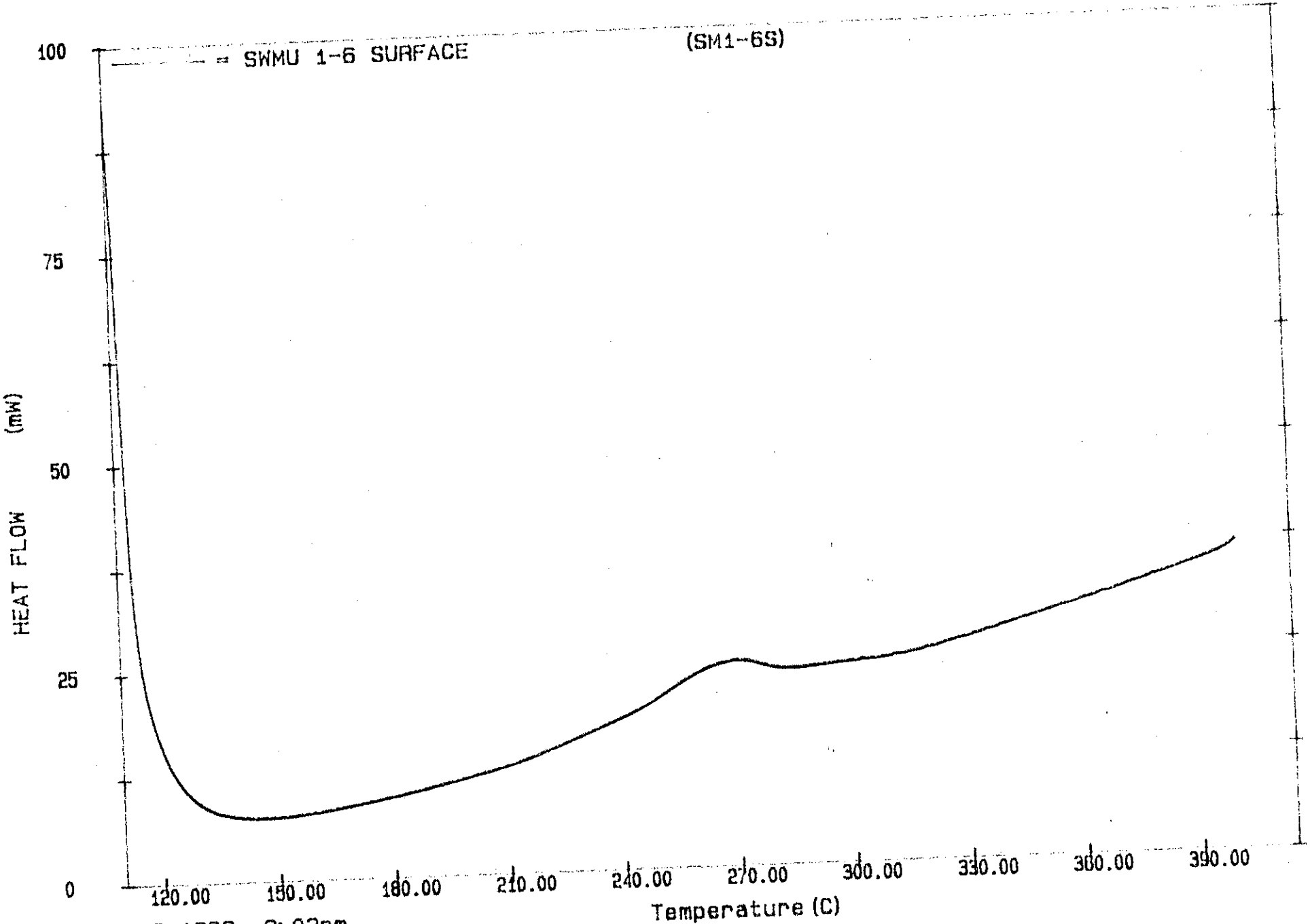

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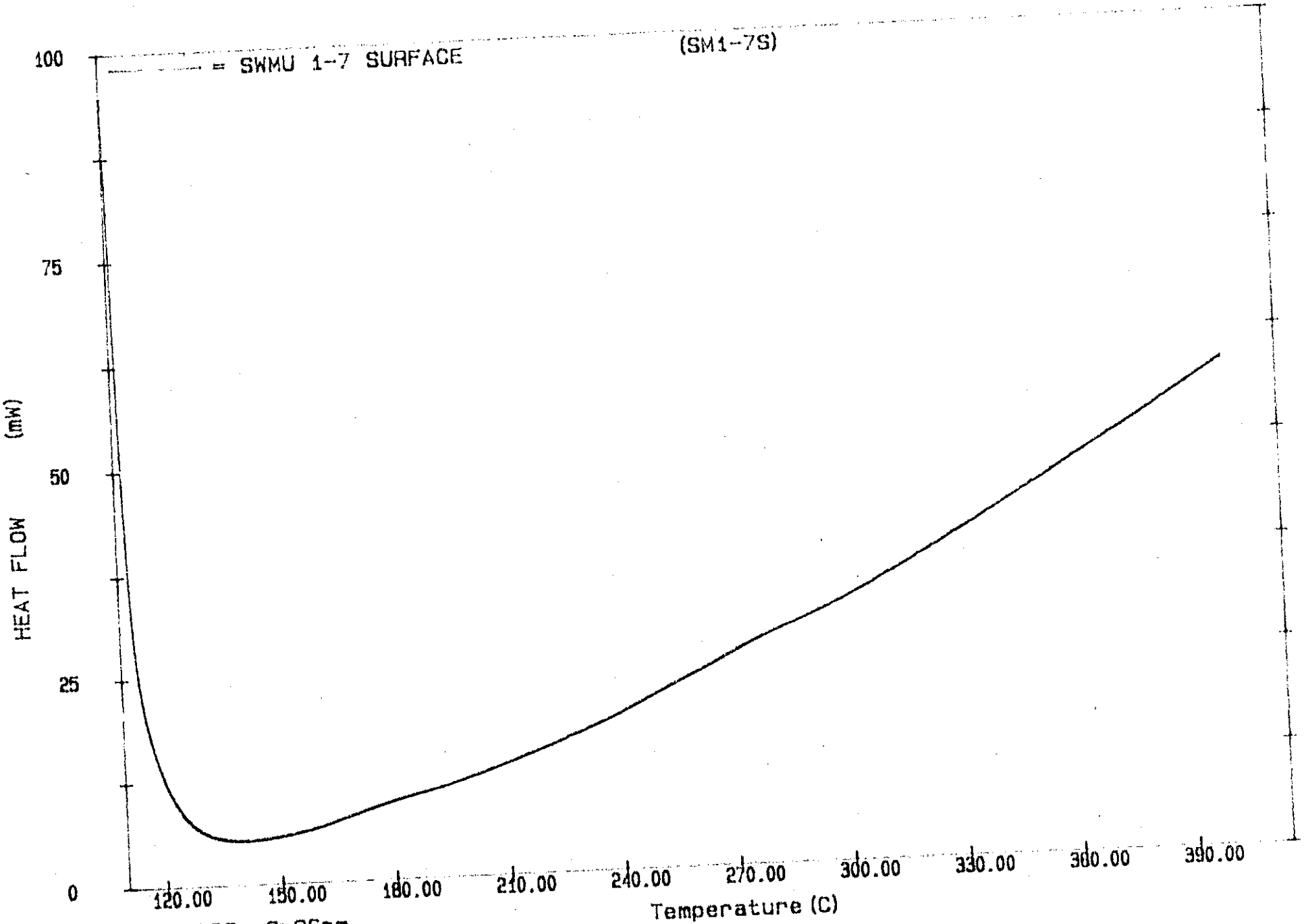

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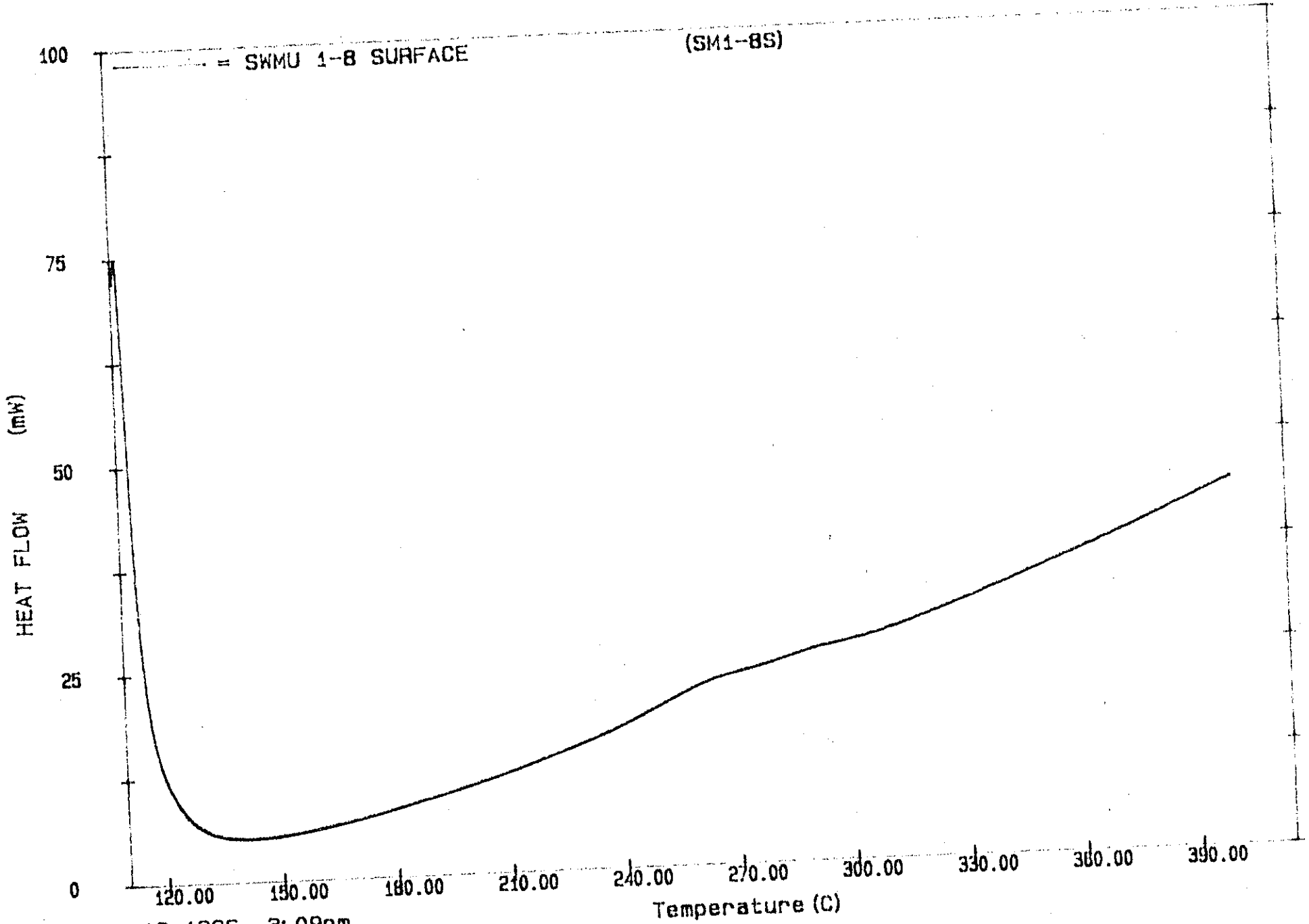
PE IN-ELMER DSC7



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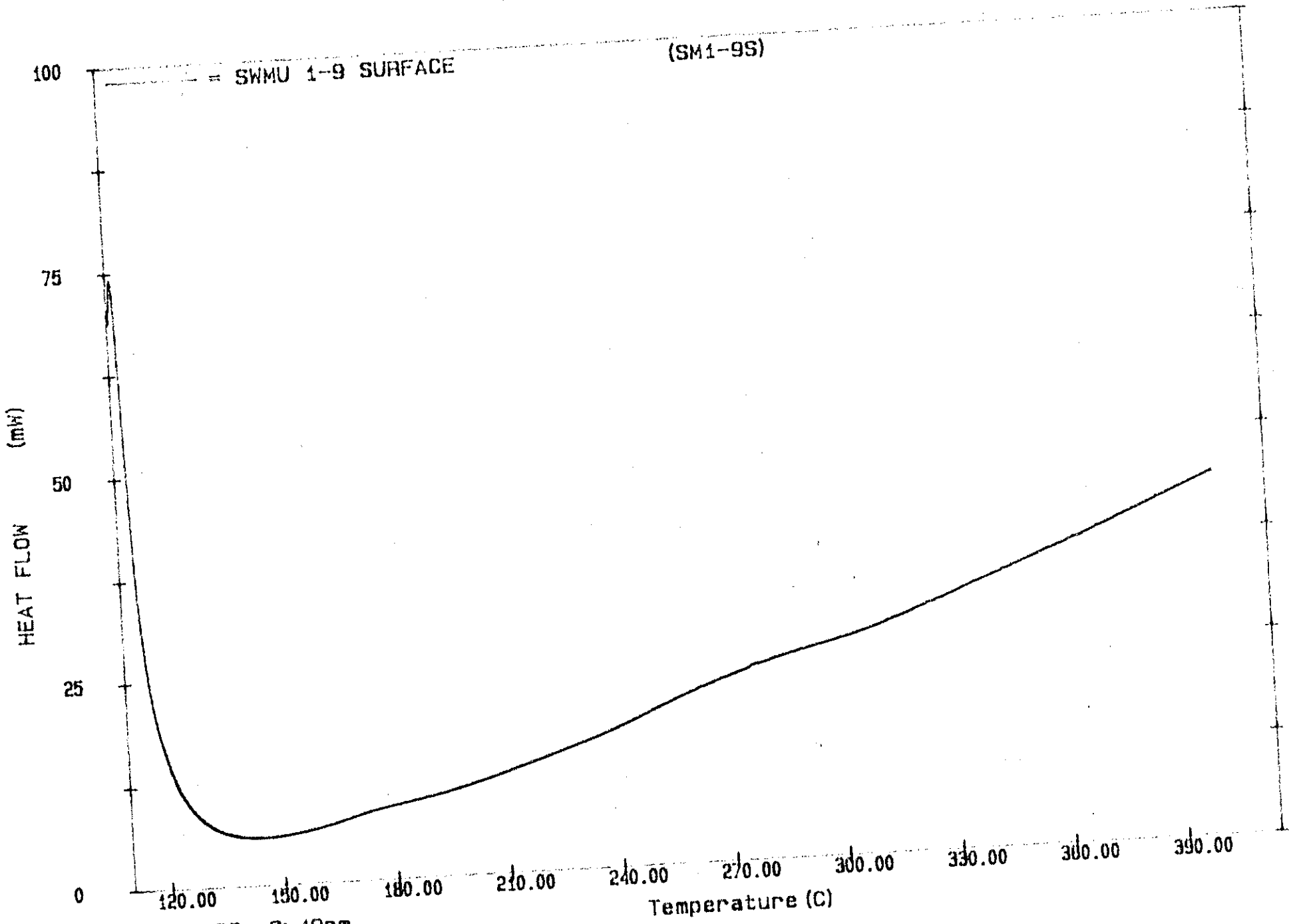
F11 SM1-8S ST 9-18-96

PERKIN-ELMER DSC7



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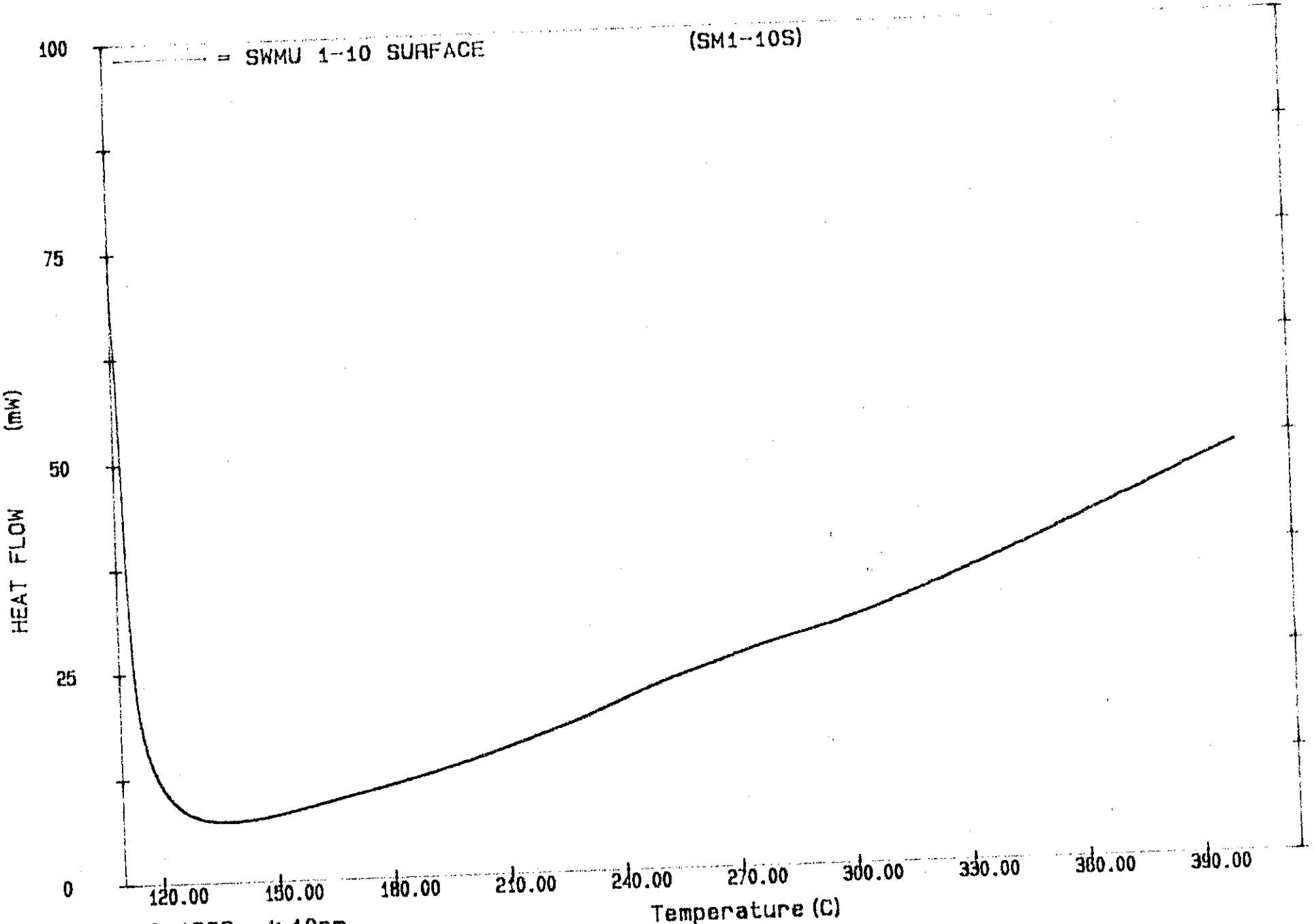
File SM1-9S ST 9-18-96

PERKIN-ELMER DSC7



Date: Sep 18, 1996 4: 10pm
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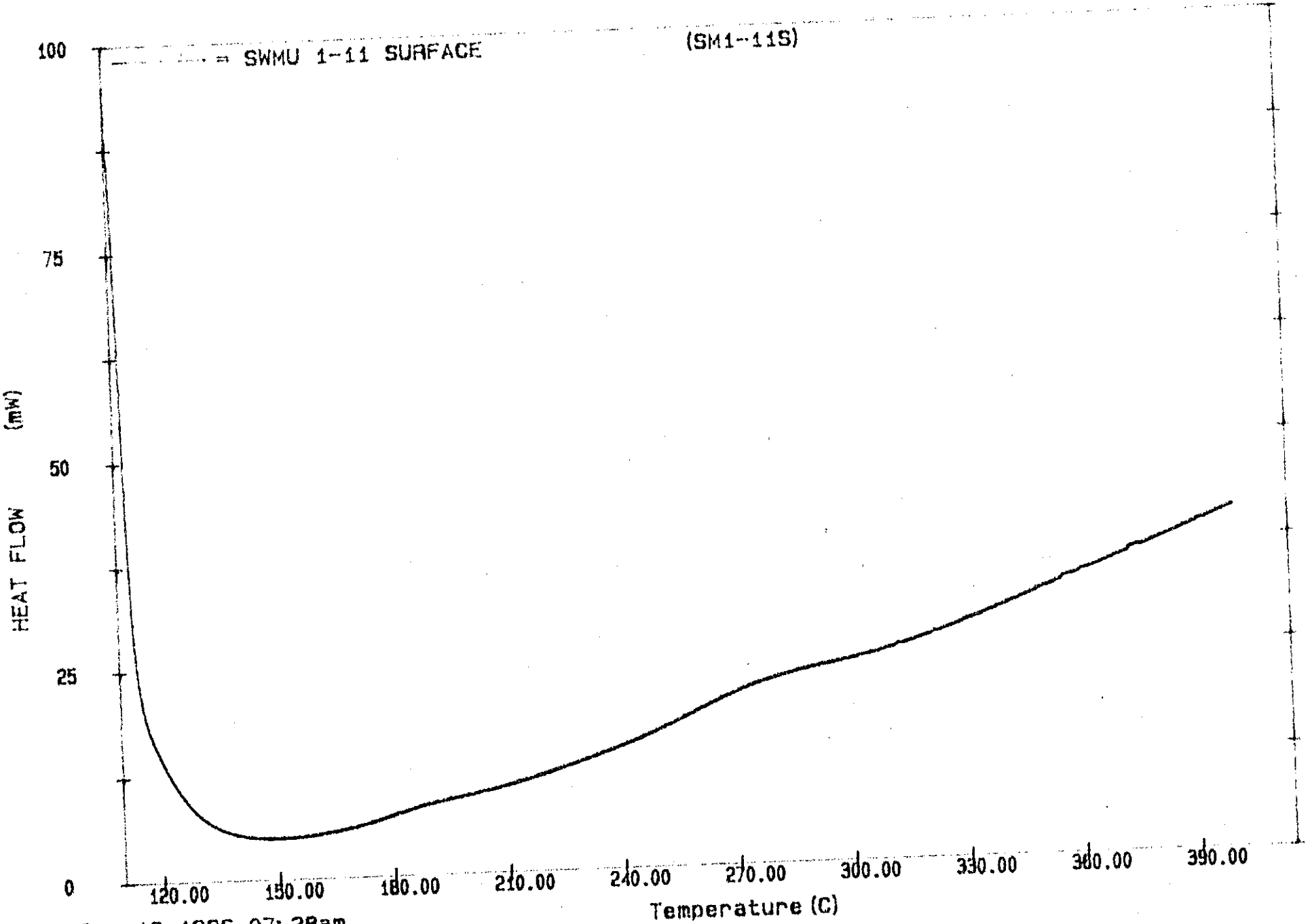
Sample Wt: 0.000 mg Path: C: \PE\
File SM1-10S ST 9-18-96

PERKIN-ELMER DSC7



Date: Sep 19, 1996 07:28am
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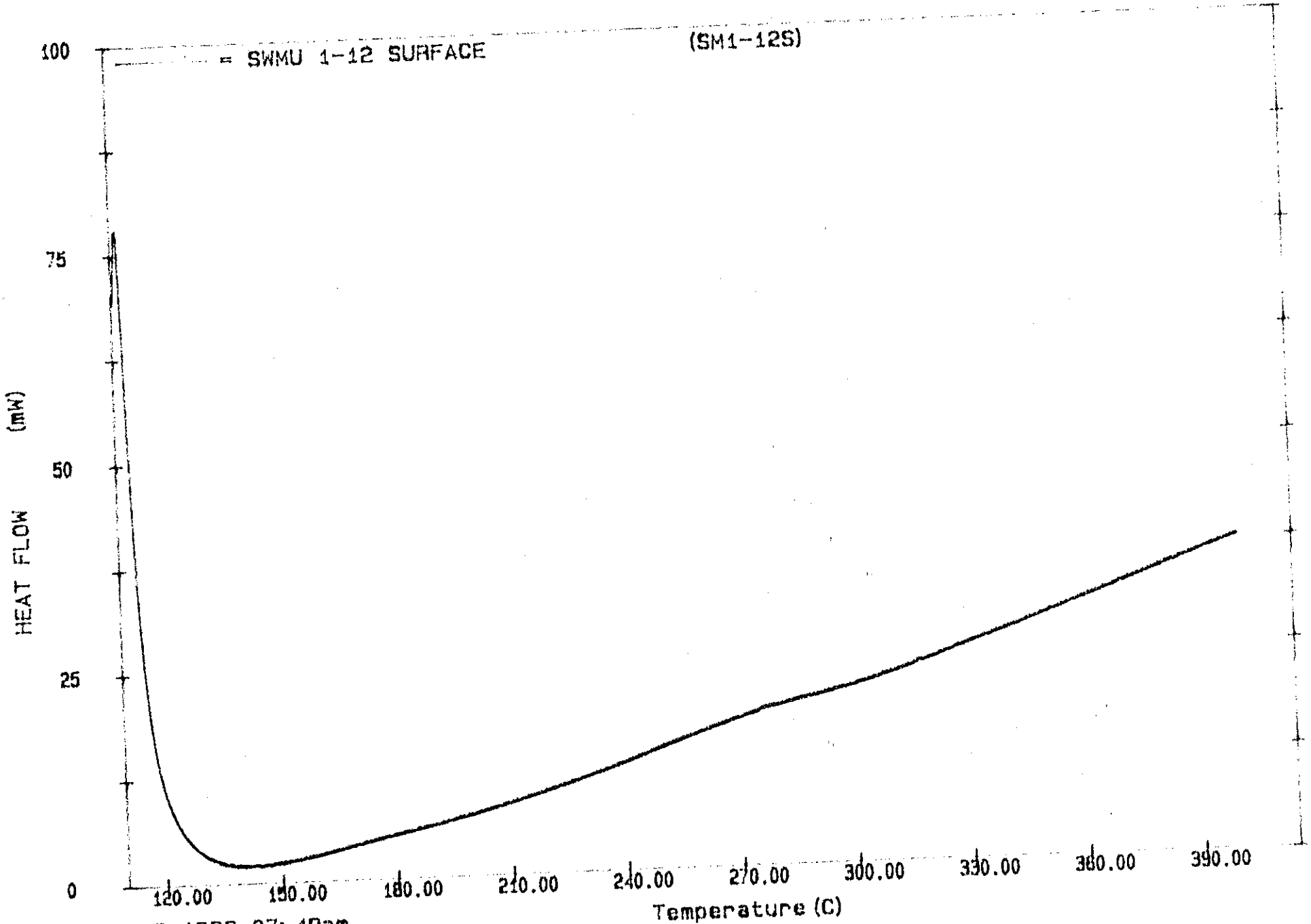
Sample Wt: 0.000 mg Path: C:\PE\
File: SM1-11S ST 9-19-96

PERKIN-ELMER DSC7



Date: Sep 19, 1996 07:49am
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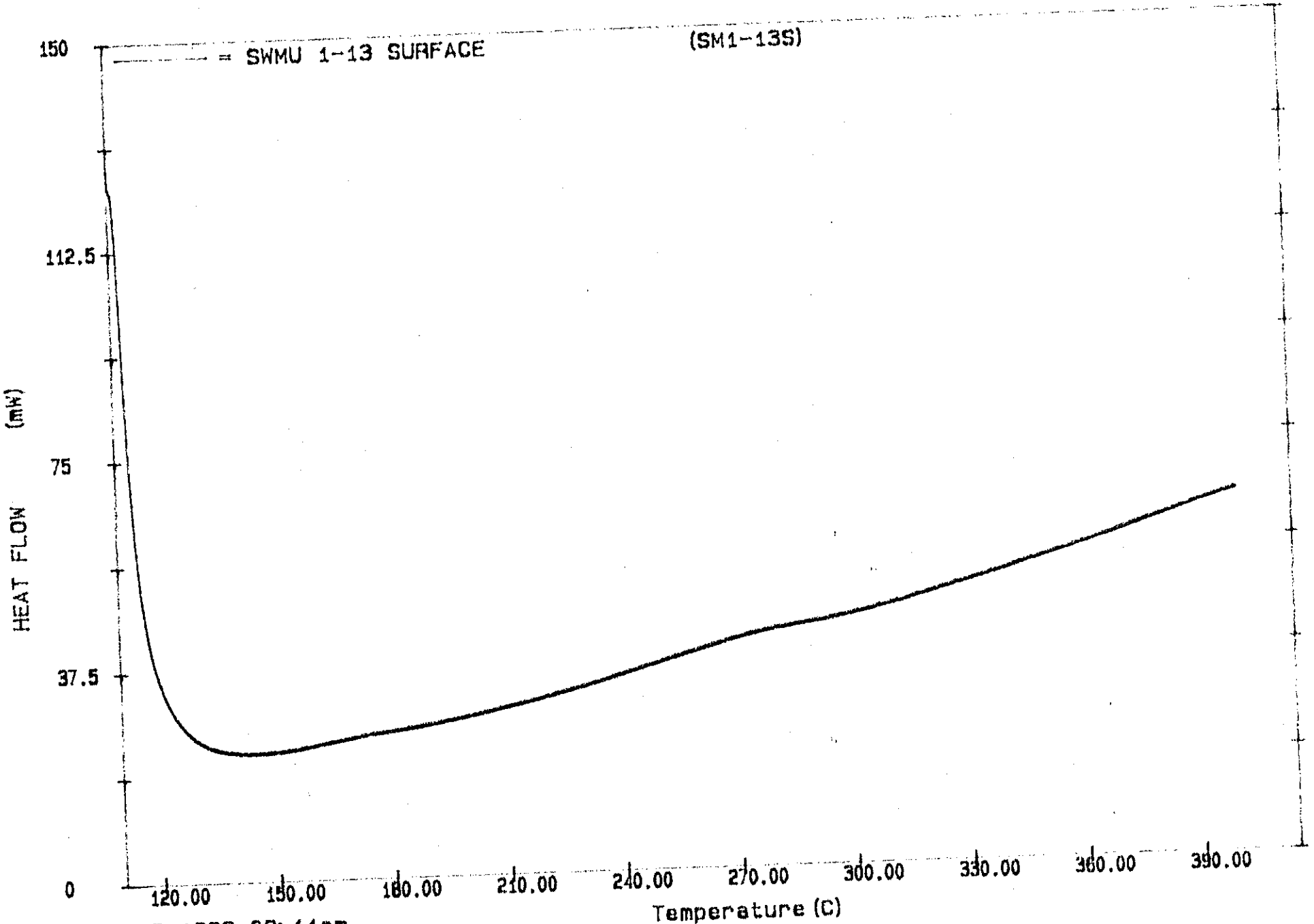
F11 SM1-12S ST 9-19-96

PERKIN-ELMER DSC7



Date: Sep 19, 1996 08: 11am
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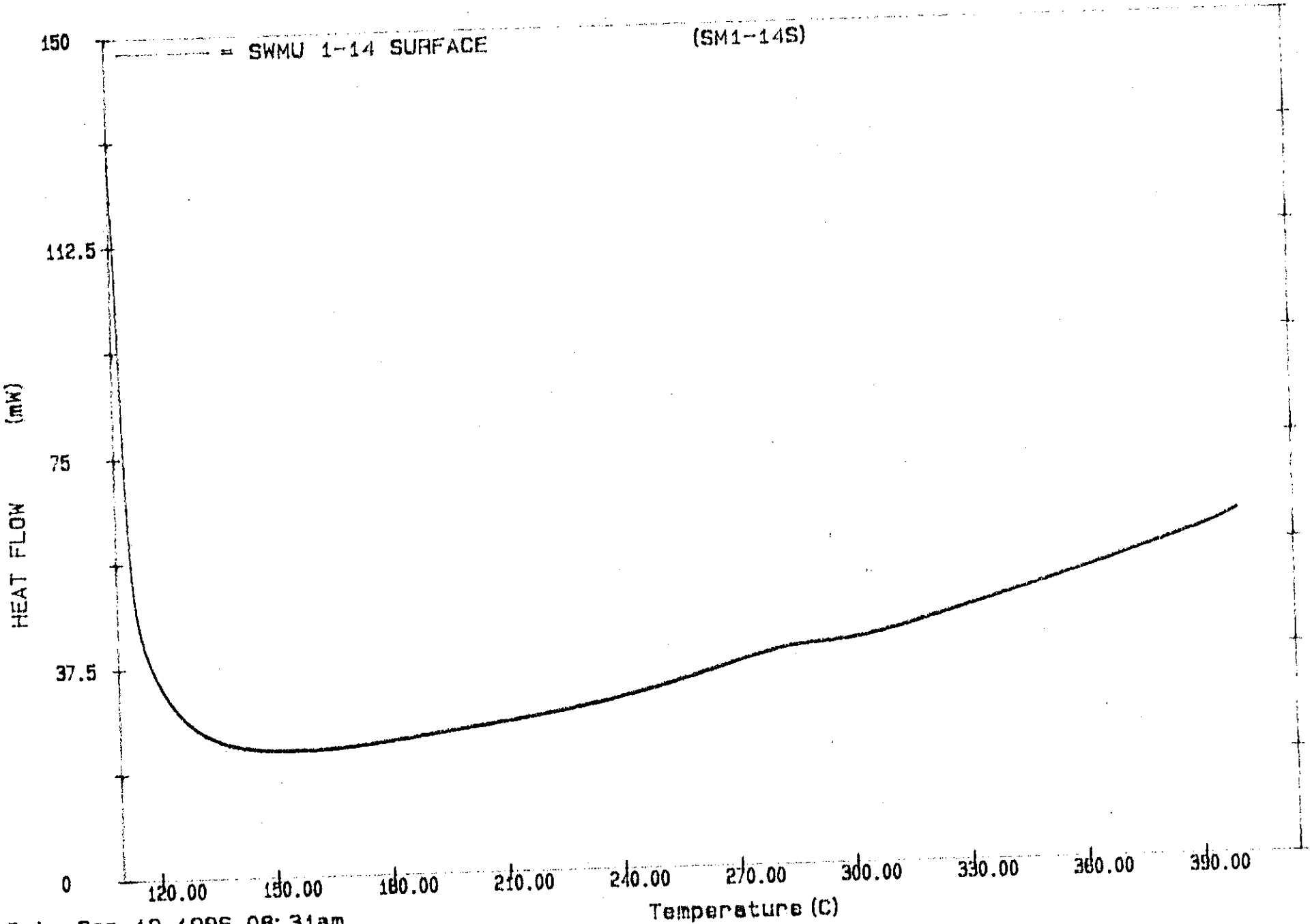
Sample Wt: 0.000 mg Path: C: \PE\
File: SM1-13S ST 9-19-96

PERKIN-ELMER DSC7



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Sample Wt: 0.000 mg Path: C:\PE\
File SM1-14S ST 9-19-96

PERKIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9 1896 SAMPLE NO# SS 1

TESTER Cook miller / S Shupt

FRICTION TEST:

	Reactive Yes	No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Yes

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9 18 96 SAMPLE NO# S~~S~~ 2

TESTER Cook / Miller [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 3

TESTER Cook / miller / Schutt

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results
Yes

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 4

TESTER Cook / Miller / Schmidt

FRICTION TEST: / IMPACT TEST: / DEPTH

CALORIMETRIC TEST:
Results
Yes

	Reactive Yes	Reactive No		
1.			1.	1.
2.		✓	2.	2.
3.		✓	3.	3.
4.		✓	4.	4.
5.		✓	5.	5.
6.		✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 5

TESTER Cook / Miller / S Zhupt

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 6

TESTER Cook / miller / S Shrif

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# ~~SS~~ 7

TESTER Cook / miller / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# ~~SS~~ 8

TESTER Cook / miller / S [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	Neg
2.	✓	2.	✓	2.	
3.	✓	3.	✓	3.	
4.	✓	4.	✓	4.	
5.	✓	5.	✓	5.	
6.	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

~~S--SURFACE~~
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# ~~SS~~ 9

TESTER Cook / miller / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 10

TESTER Cook / miller / o hunt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH	
1.		✓		✓	1.	1.
2.		✓		✓	2.	2.
3.		✓		✓	3.	3.
4.		✓		✓	4.	4.
5.		✓		✓	5.	5.
6.		✓		✓	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 11

TESTER Cook / miller / D Zhrpt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# S~~S~~ 12

TESTER Cook / Miller / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# S~~S~~ 13

TESTER Cook / miller / shift

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
	✓		✓	1.	1.	
	✓		✓	2.	2.	
	✓		✓	3.	3.	
	✓		✓	4.	4.	
	✓		✓	5.	5.	
	✓		✓	6.	6.	

N+S

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

~~S--SURFACE~~
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 14

TESTER Cook Miller / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
Yes	No	Yes	No		
1.	✓	1.	✓	1.	1.
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-19-96	SWMU 155							
	1	N	N	N	N	N	N	N
	2	N	N	N	N	N	N	N
	3	N	N	N	N	N	N	N
	4	N	N	N	N	N	N	N
	5	N	N	N	N	N	N	N
	6	N	N	N	N	N	N	N
	7	N	N	N	N	N	N	N
	8	N	N	N	N	N	N	N
	9	N	N	N	N	N	N	N
	10	N	N	N	N	N	N	N
	11	N	N	N	N	N	N	N
	12	N	N	N	N	N	N	N
	13	N	N	N	N	N	N	N
	14	N	N	N	N	N	N	N
	15	N	Y	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

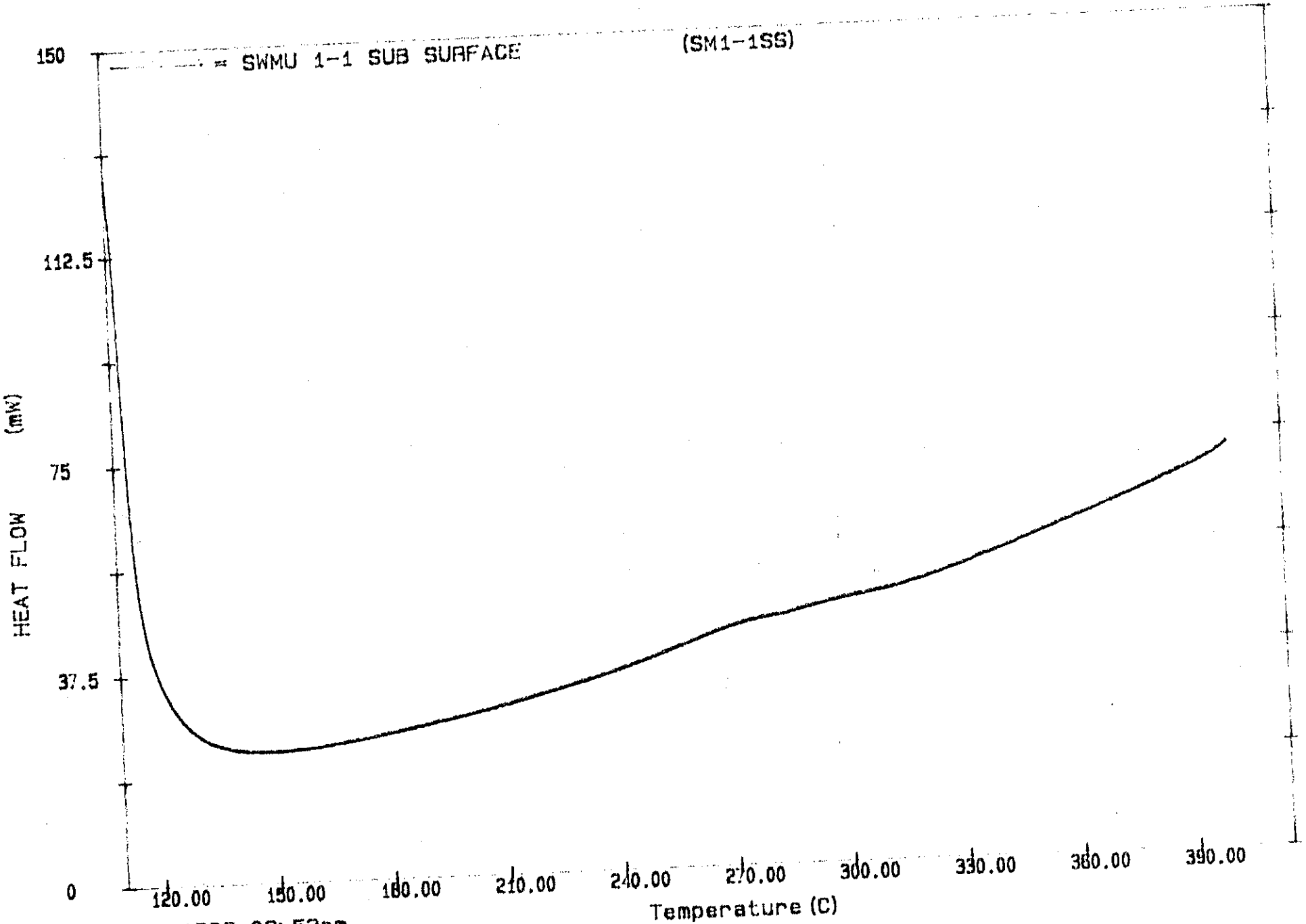
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

N= N0



Date: Sep 19, 1996 08: 52am
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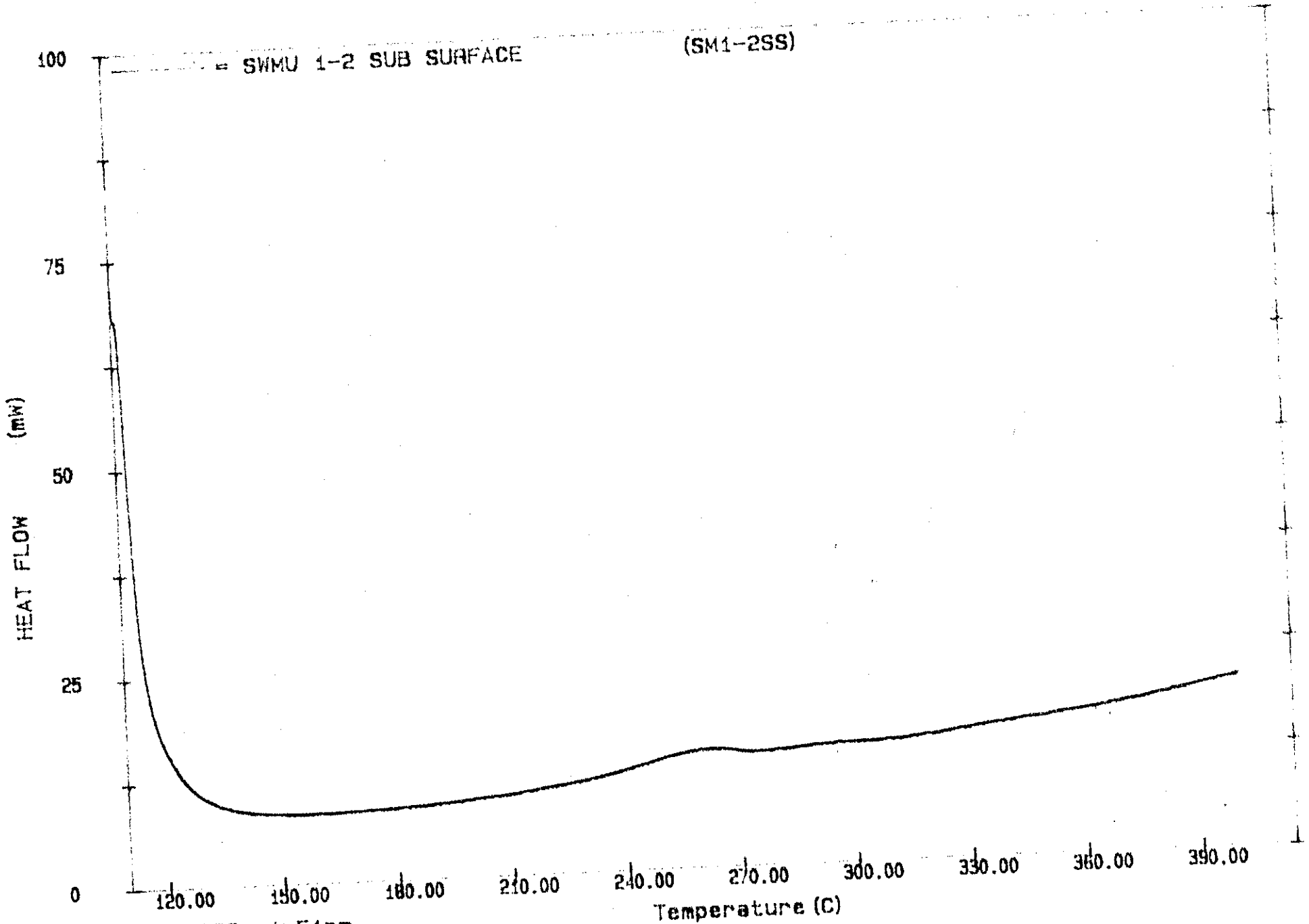
Sample Wt: 0.000 mg Path: C: \PE\
File M1-1SS ST 9-19-96

PER TN-ELMER DSC7



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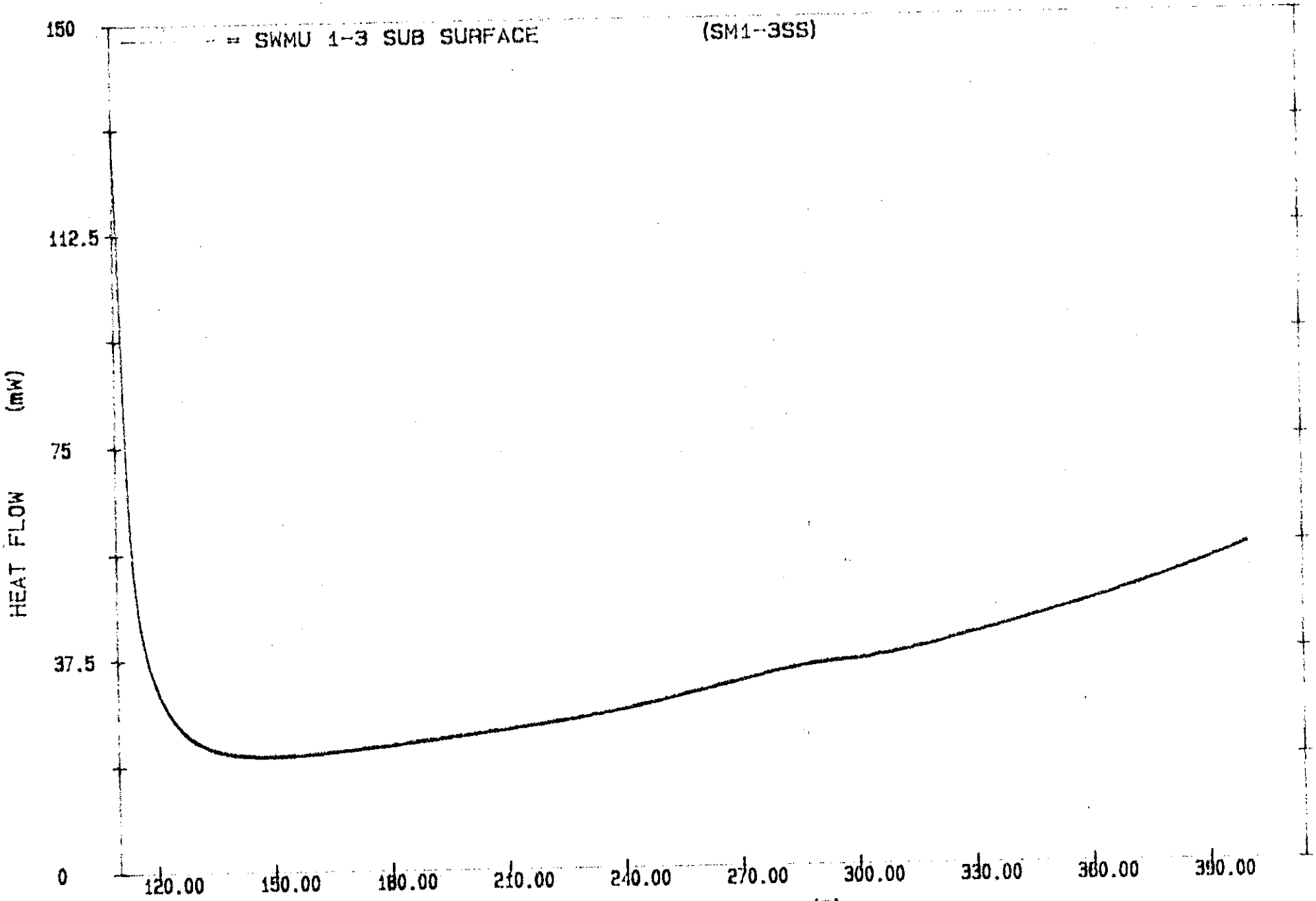
Sample Wt: 0.000 mg Path: C:\PE\
File SM1-2SS ST 9-19-96

PERKIN-ELMER DSC7



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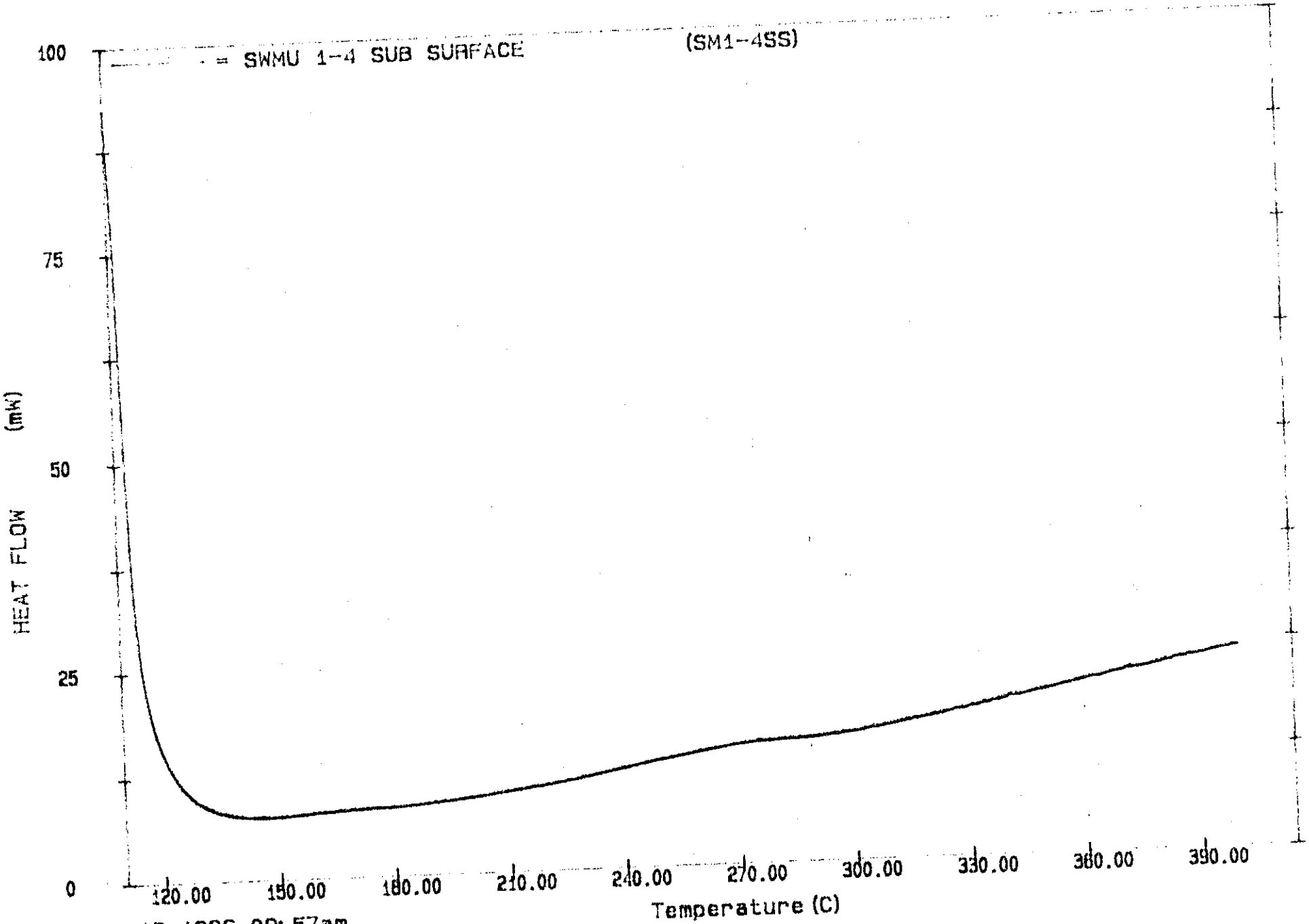
File: SM1-3SS ST 9-19-96

PERKIN-ELMER DSC7



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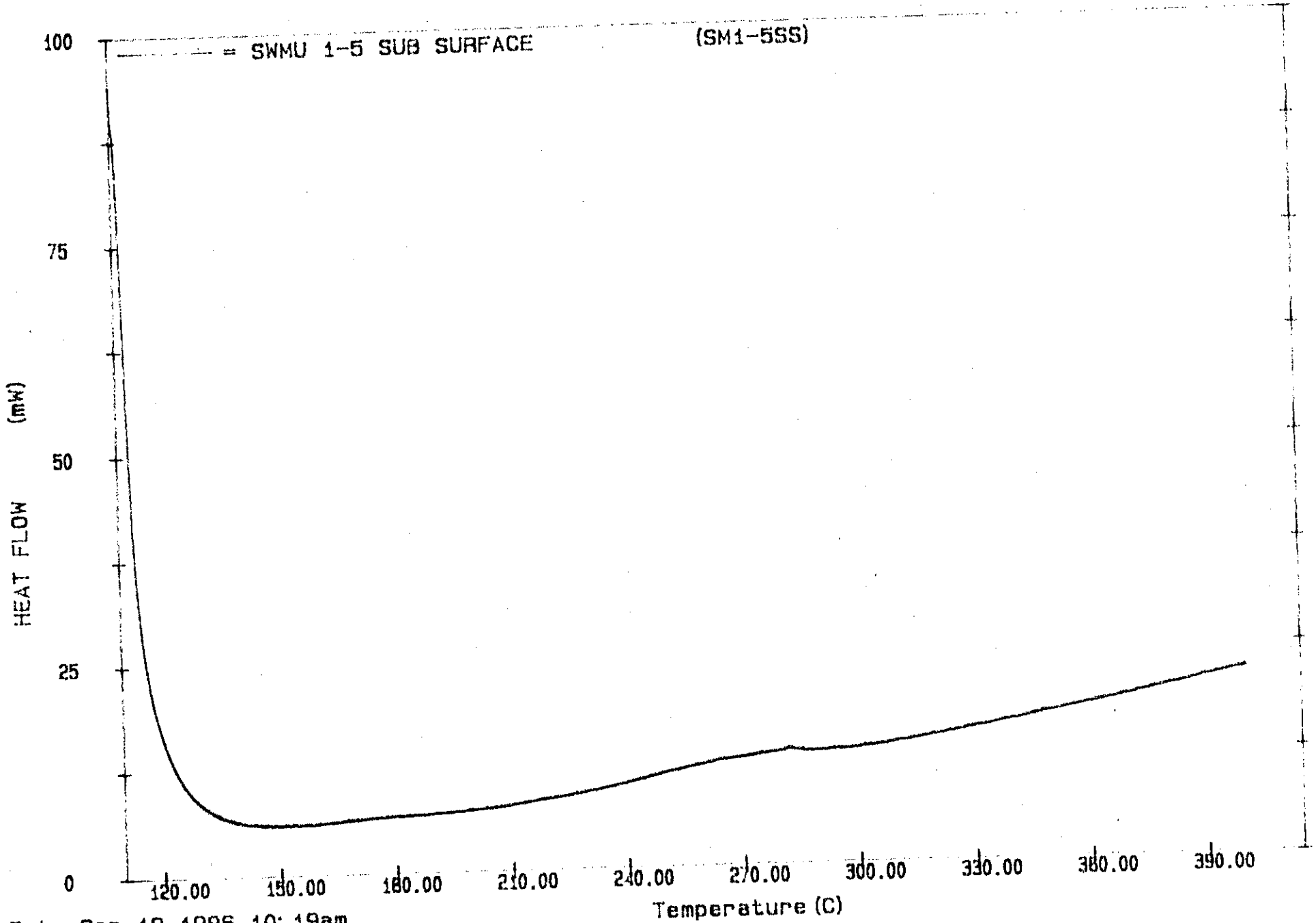
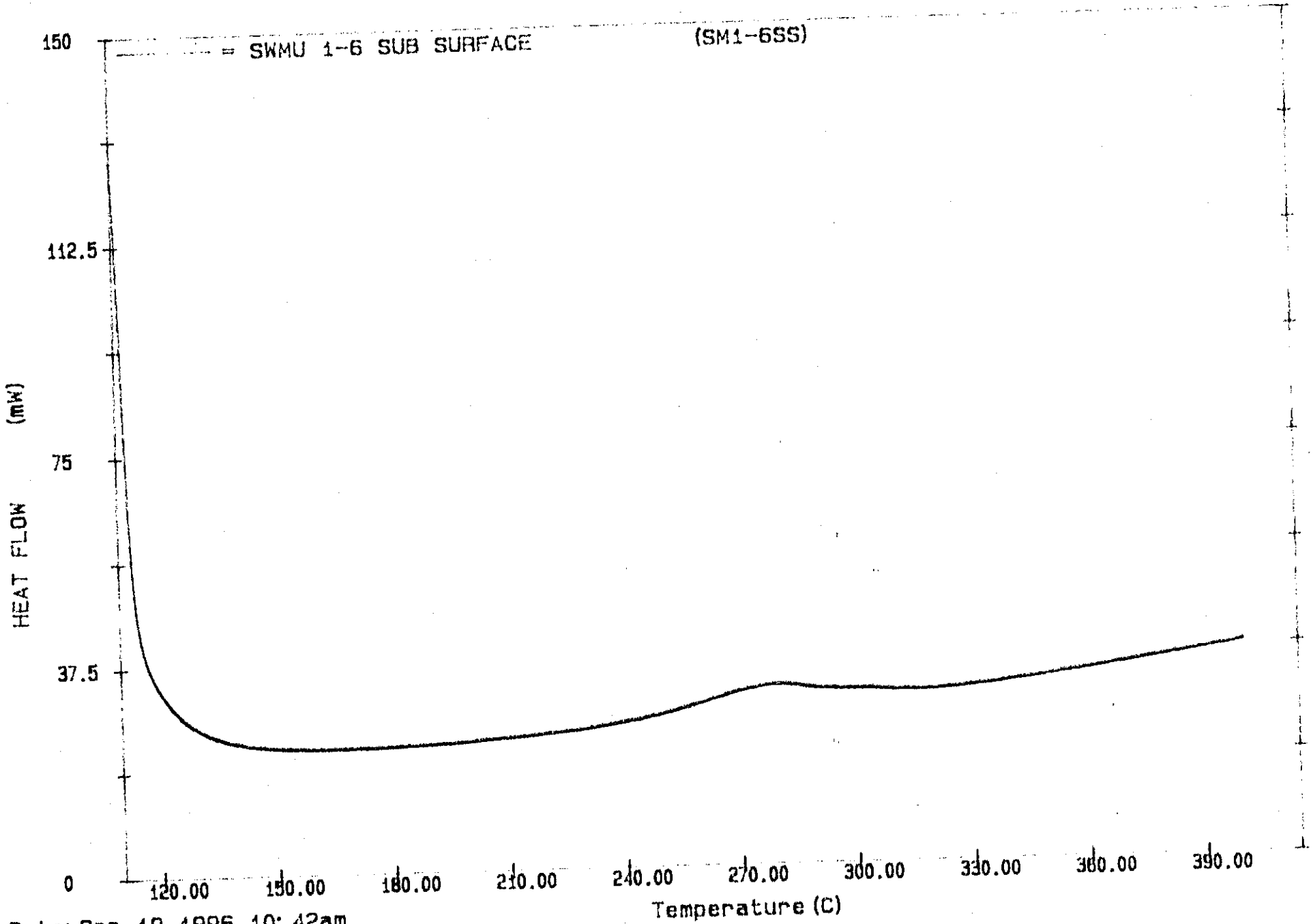
Sample Wt: 0.000 mg Path: C:\PE\
File: SM1-4SS ST 9-19-96

PERKIN-ELMER DSC7



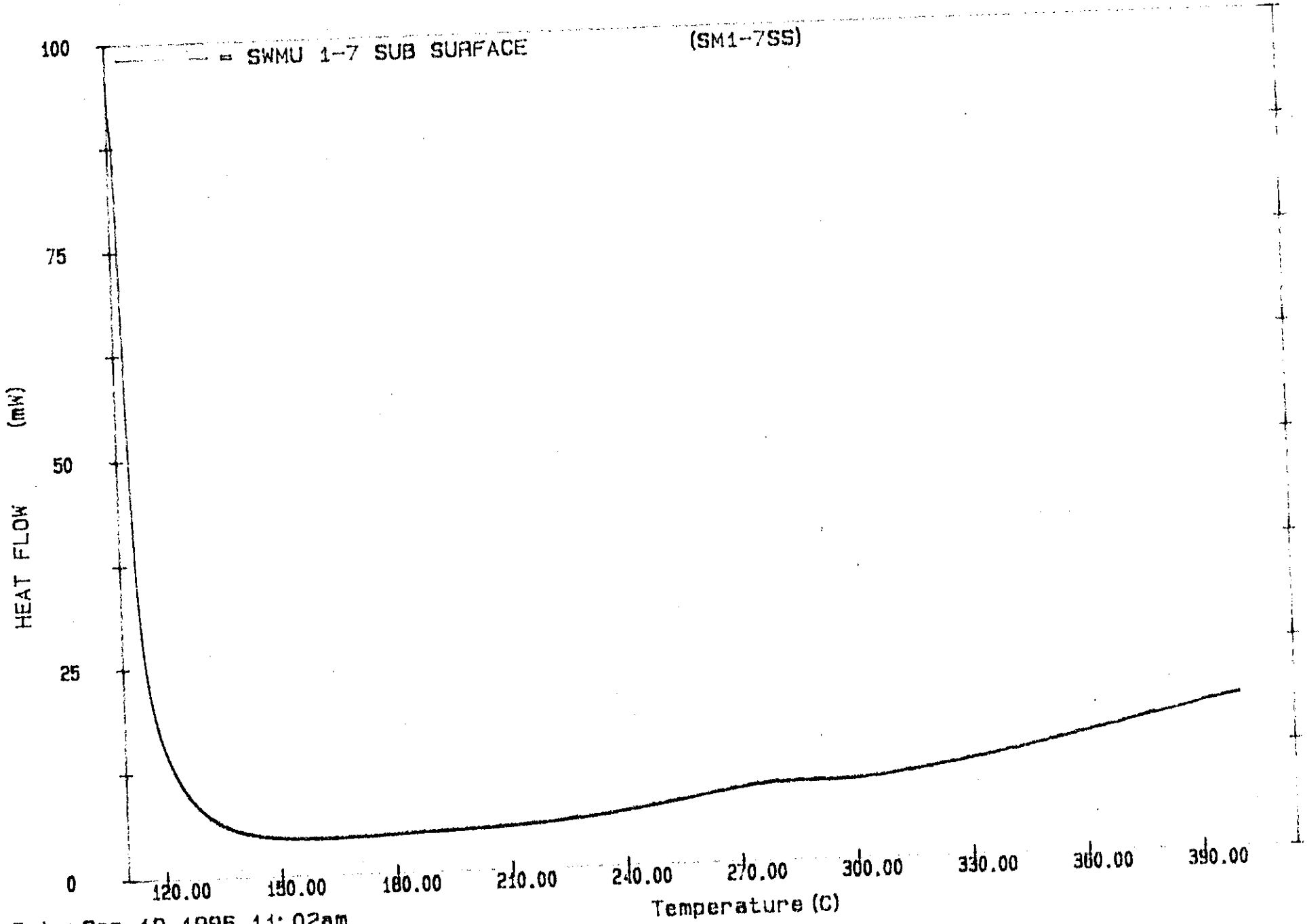
Date: Sep 19, 1996 10: 19am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File SM1-5SS ST 9-19-96

PERKIN-ELMER DSC7



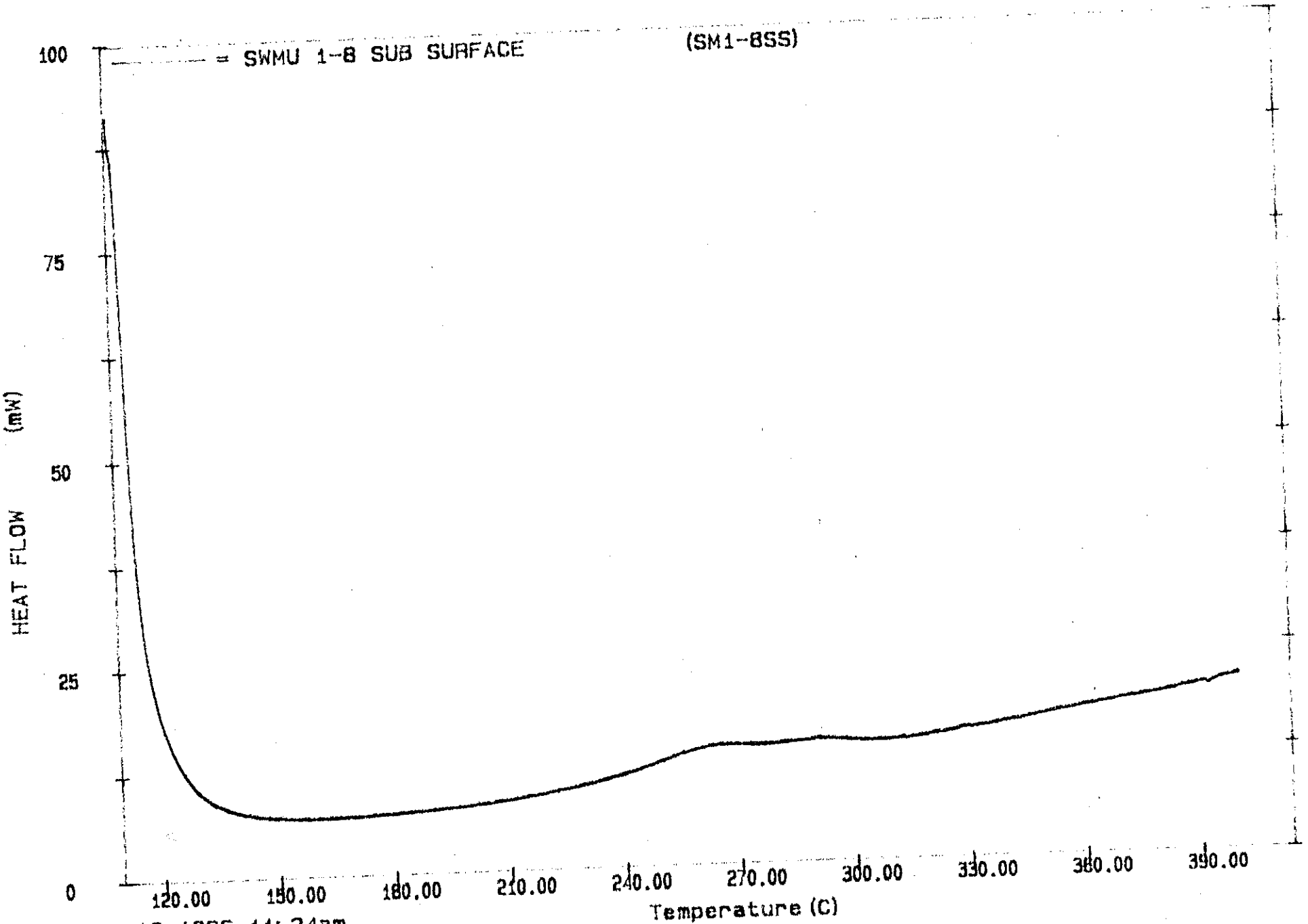
Date: Sep 19, 1996 10: 42am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File M1-6SS ST 9-19-96

PERKIN-ELMER DSC7



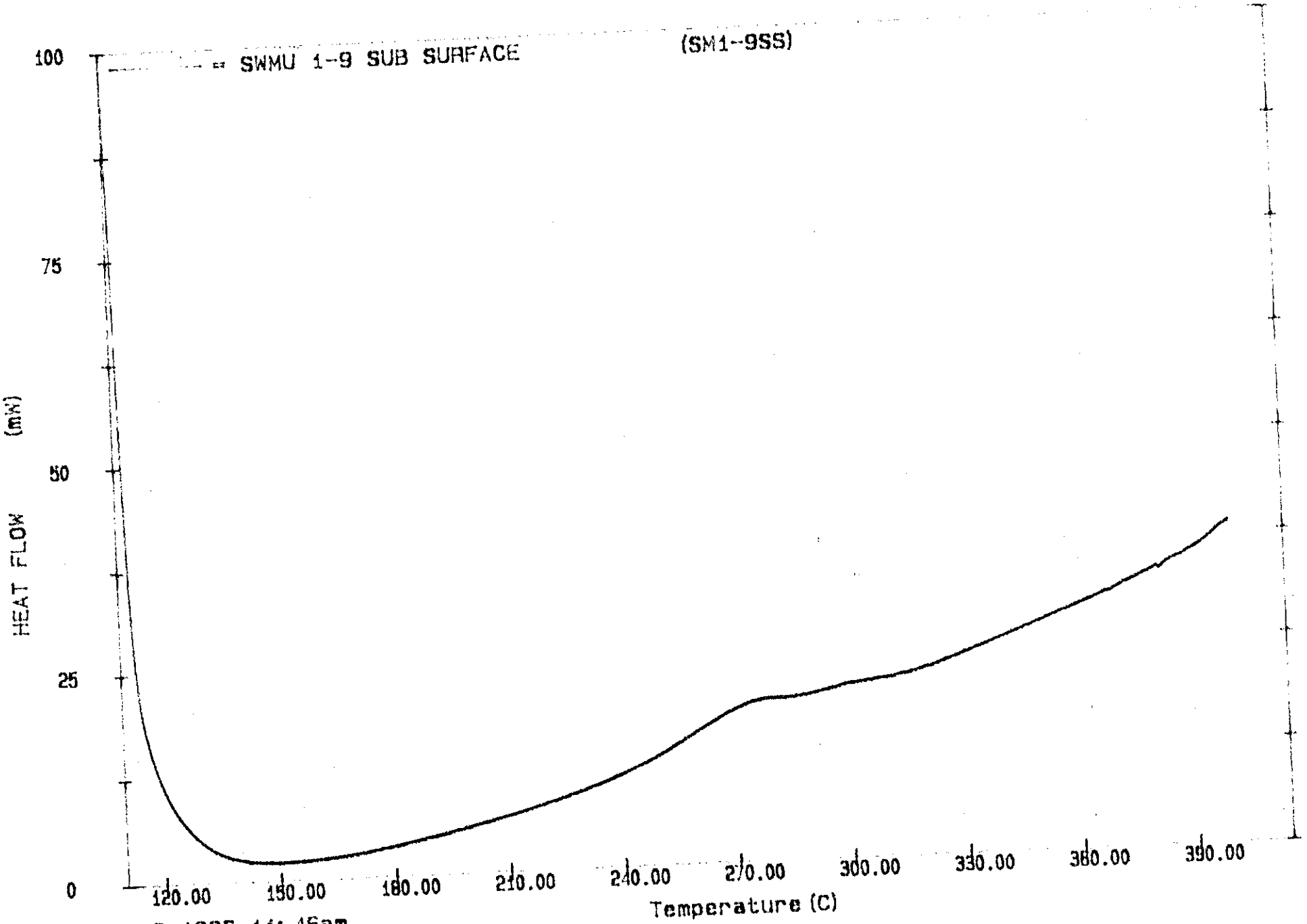
Date: Sep 19, 1996 11:02am
Scanning Rate: 20.0 C/min
Samp' Wt: 0.000 mg Path: C:\PE\
Fil SM1-7SS ST 9-19-96

PE IN-ELMER DSC7



Date: Sep 19, 1996 11:24am
Scanning Rate: 20.0 C/min
Samp" Wt: 0.000 mg Path: C:\PE\
File .. SM1-8SS ST 9-19-96

PERKIN-ELMER DSC7



Date: Sep 19, 1996 11:46am
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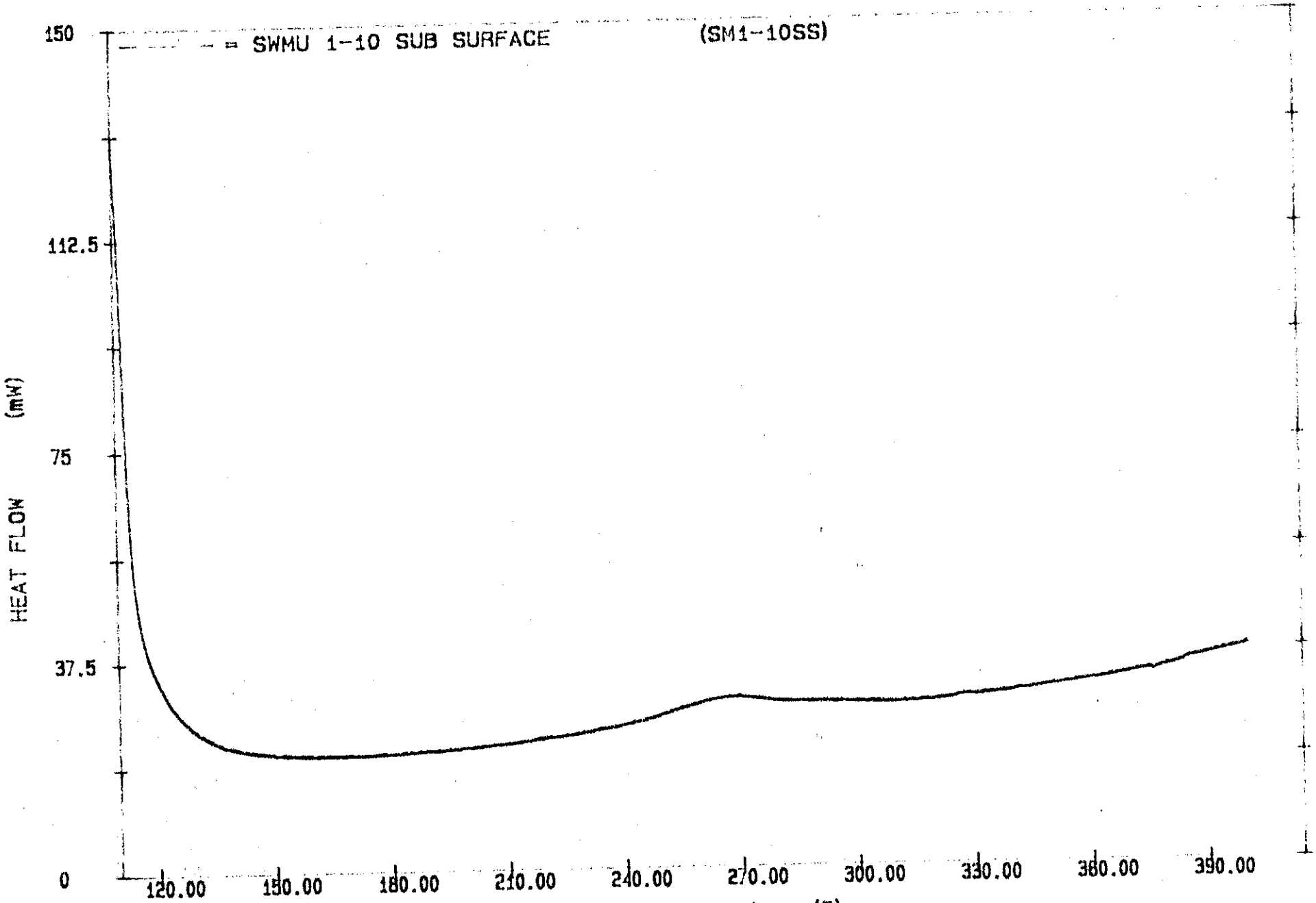
Sample Wt: 0.000 mg Path: C:\PE\
File SM1-9SS ST 9-19-96

PERKIN-ELMER DSC7



Date: Sep 19, 1996 12:06am
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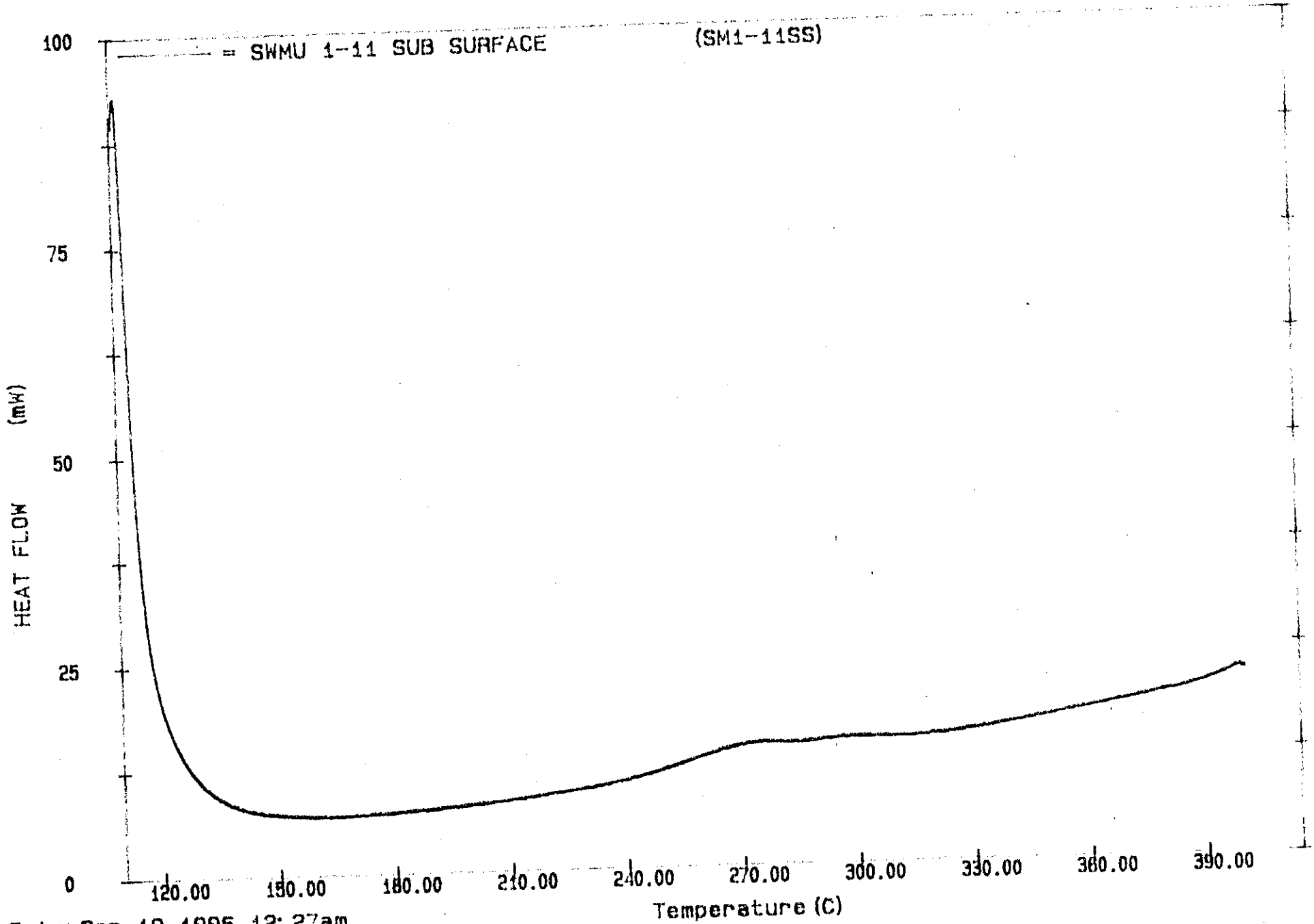
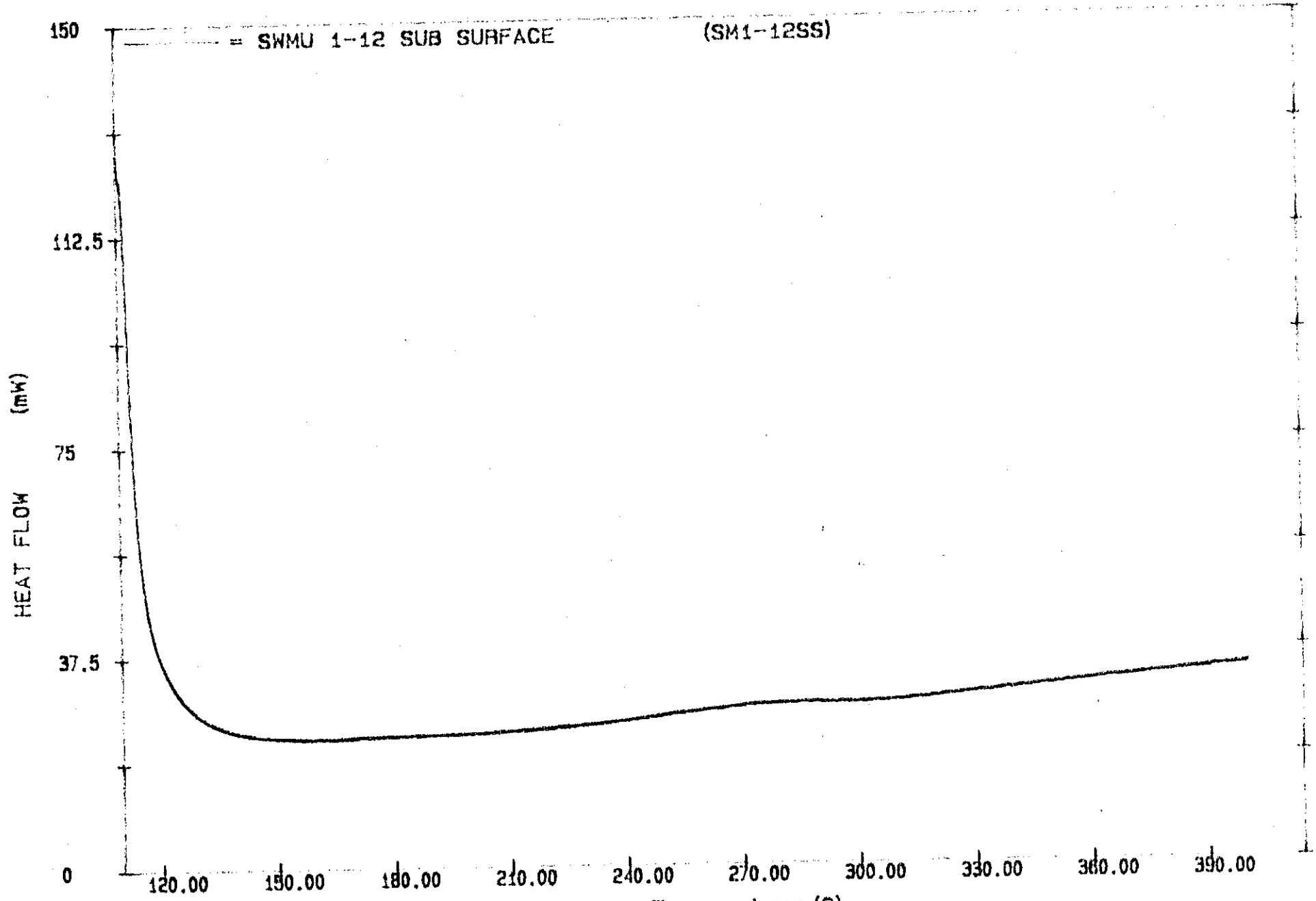
Sample Wt: 0.000 mg Path: C:\PE\
File: SM1-10SS ST 9-19-96

PERKIN-ELMER DSC7



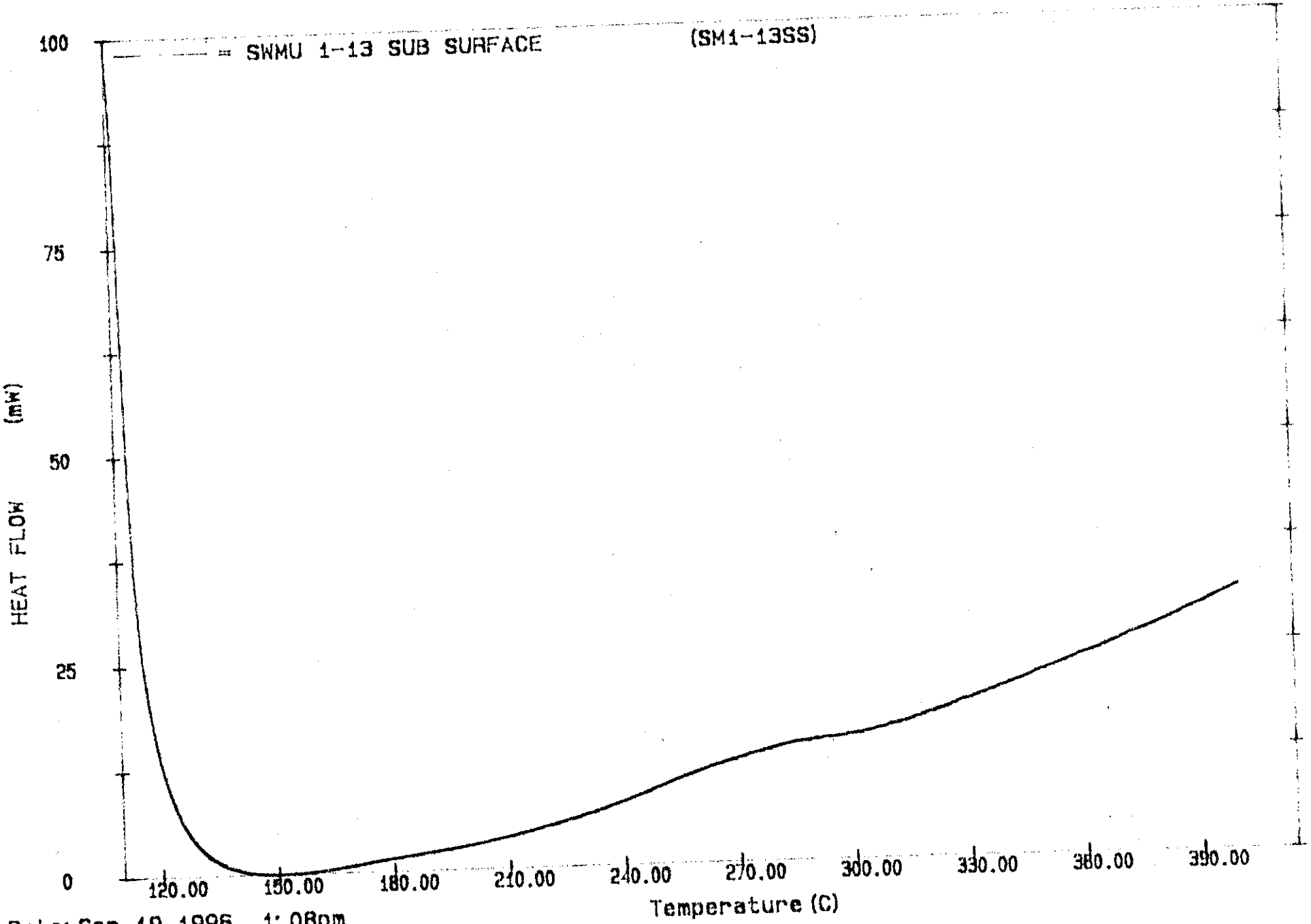
Date: Sep 19, 1996 12:27am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File SM1-11SS ST 9-19-96

PERKIN-ELMER DSC7



Date: Sep 19, 1996 12:47am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File SM1-12SS ST 9-19-96

PE 7TN-ELMER DSC7



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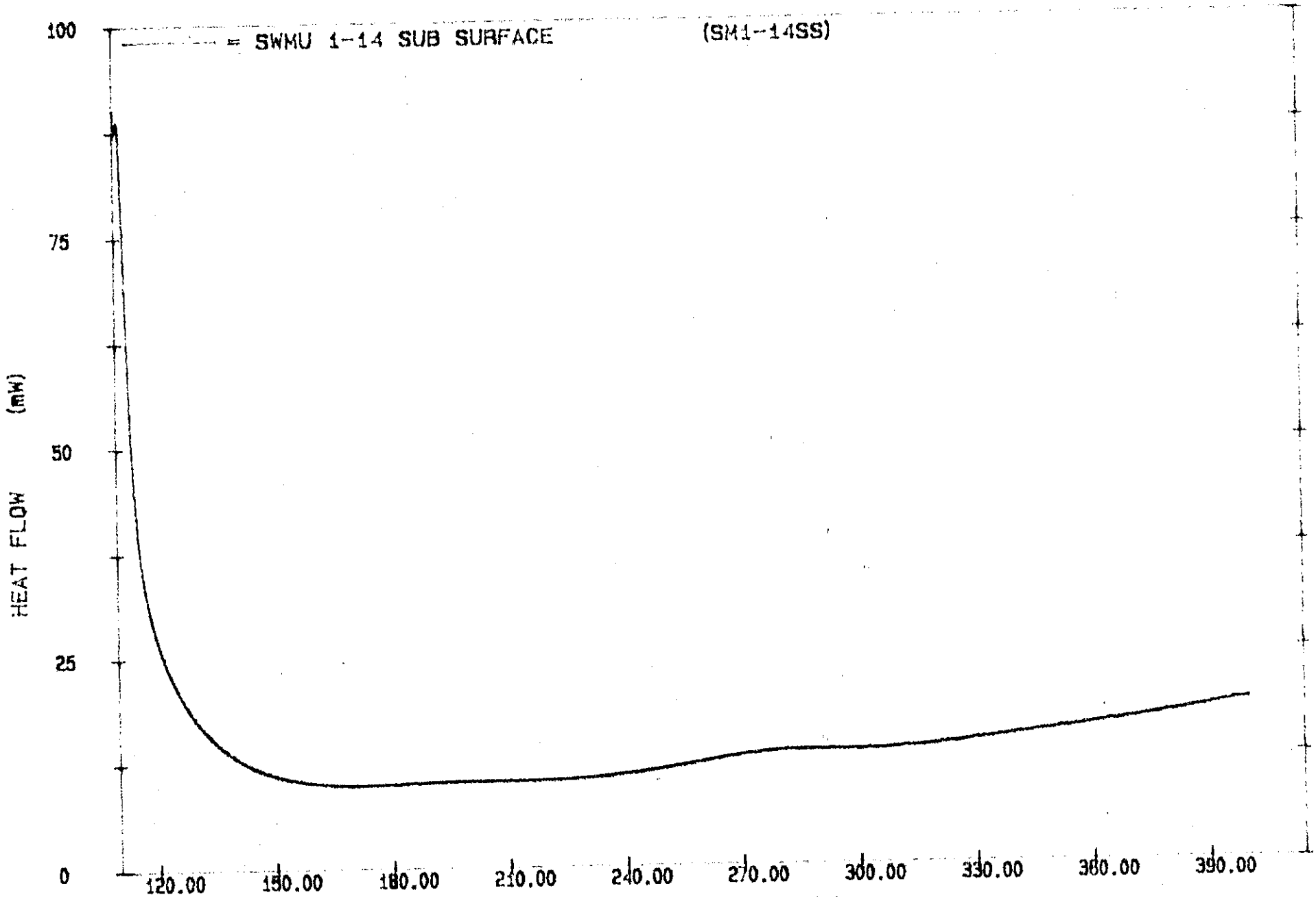
File SM1-13SS ST 9-19-96

PERKIN-ELMER DSC7



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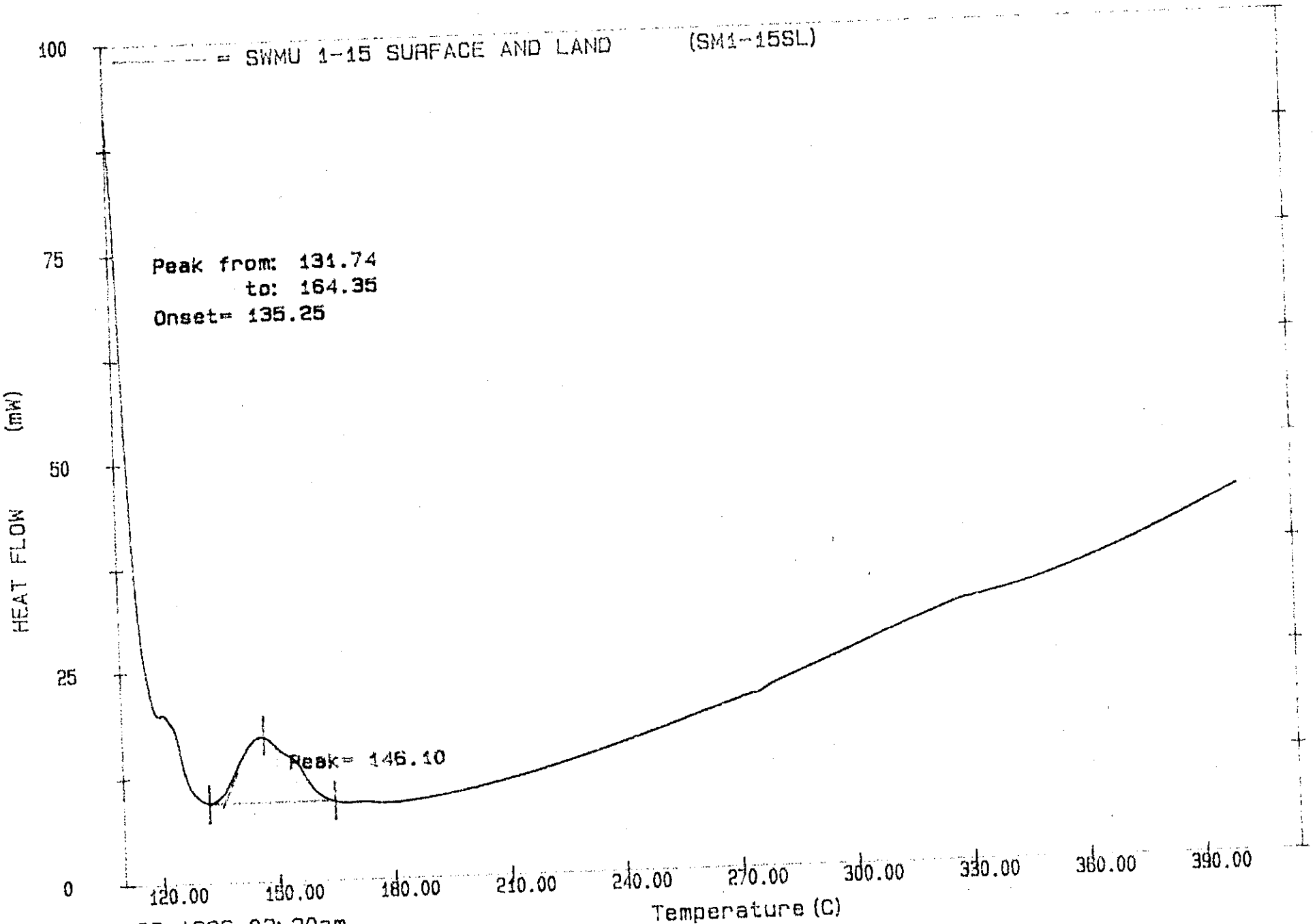
File SM1-14SS ST 9-19-96

PERKIN-ELMER DSC7



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Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File: SM1-15SL ST 9-26-96

PERKIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 1

TESTER Cook / Miller / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 2

TESTER Cook / Miller / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

NEG

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 3

TESTER Cook / miller / S [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 4

TESTER Cook / Miller / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 5

TESTER Cook / Miller / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 6

TESTER Cook / Miller / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 7

TESTER Cook / Miller / Schmidt

FRICTION TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST: Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 8

TESTER Cook / Miller / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 9

TESTER Cook / Miller / Dwight

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. 1.
2. 2.
3. 3.
4. 4.
5. 5.
6. 6.

CALORIMETRIC TEST:
Results
Yes

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 10

TESTER Cook / Miller / Hunt

FRICTION TEST: Reactive

	Yes	No
1.		✓
2.	✓	
3.	✓	
4.		✓
5.	✓	
6.	✓	

IMPACT TEST: Reactive

	Yes	No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

DEPTH

1.____ 1.

2.____ 2.

3.____ 3.

4.____ 4.

5.____ 5.

6.____ 6.

CALORIMETRIC TEST:
Results

Yes

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 11

TESTER Cook / miller / J Wright

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 12

TESTER Cook / miller / [illegible]

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			
1.	/	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 13

TESTER Cook / miller / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9/18/96 SAMPLE NO# SS 14

TESTER Cook / Miller / S Hoyt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 1 DATE 9-26-96 SAMPLE NO# S~~S~~ & LanD 15

TESTER B. Thrift / S. Thrift / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	
1.	✓	1.	✓	1.	1.
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

CALORIMETRIC TEST:
Results
Positive

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

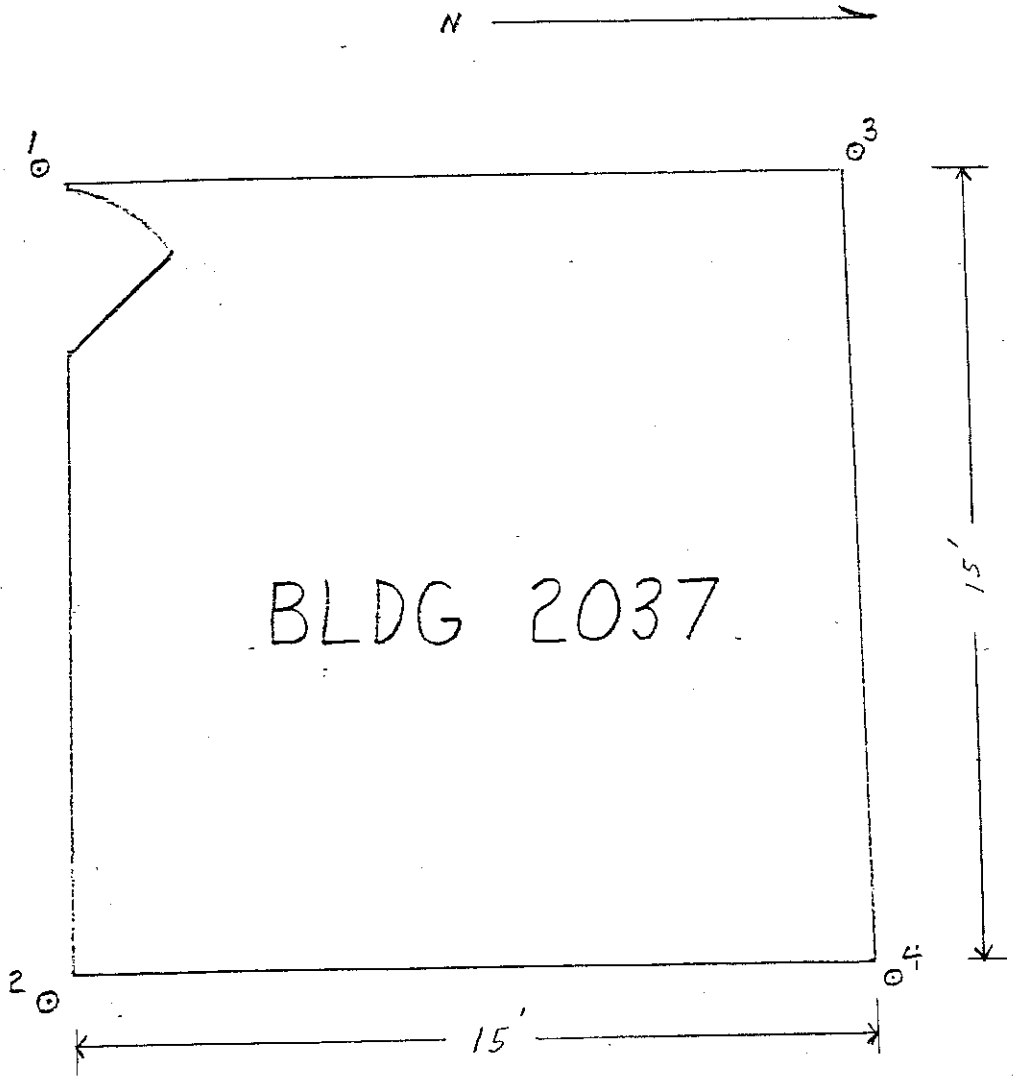
S--SURFACE
SS--SUBSURFACE

APPENDIX C

SWMU 9 - WASTE POWDER CATCH BASINS - BUILDING 2037

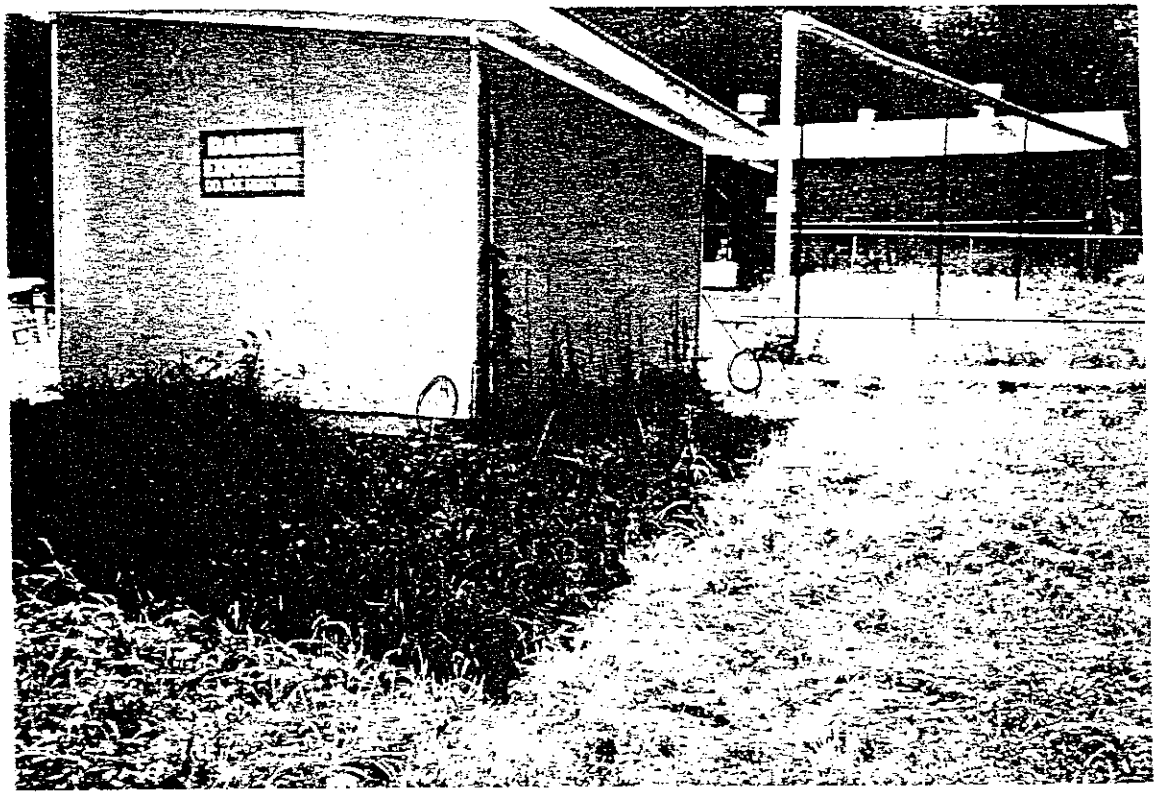
SWMU 9

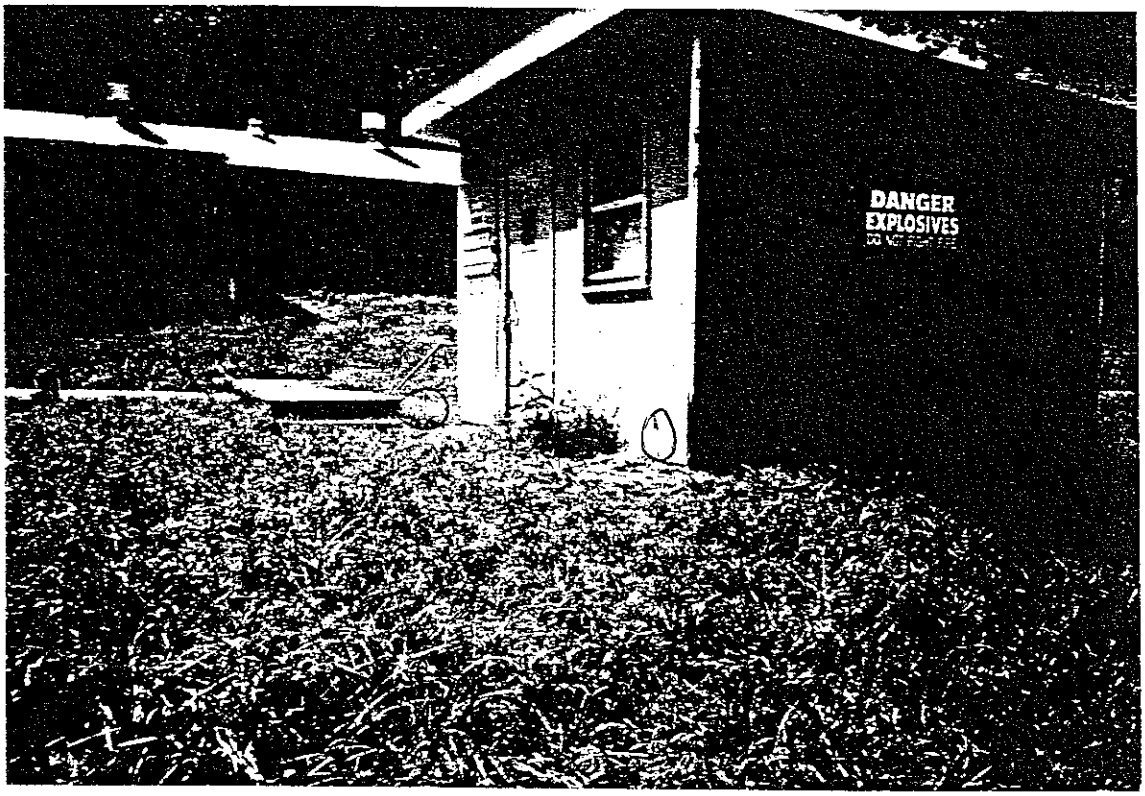
WASTE POWDER CATCH BASIN BLDG 2037, TOOK 4 SURFACE SAMPLES 0-2" AND 4 SUBSURFACE SAMPLES 2-8".



SUMMARY OF ACTIVITIES FOR SWMU 9

Implementation of the ICM work plan for SWMU 9 consisted of taking surface (0-2") and subsurface (2-8") samples in four locations (see map). Calorimeter tests were run on composited samples. Samples tested negative for explosives using all three test methods.



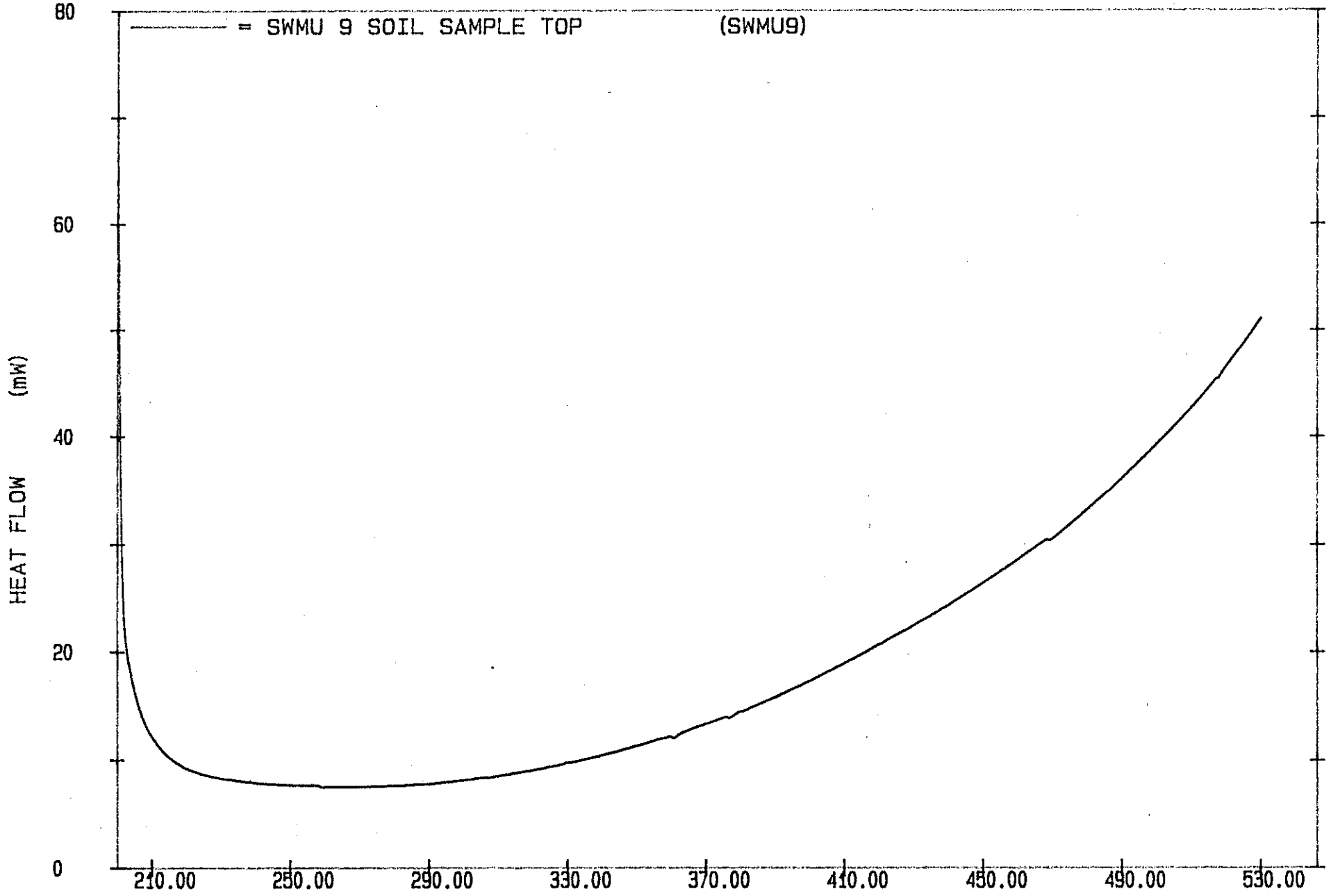

DANGER
EXPLOSIVES

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 216	DDNP 180C	TET 280C
8-4-96	SWM495	N	N	N	N	N	N	N

LEGEND
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 08, 1996 6: 42pm
Scanning Rate: 20.0 C/min
Sample Wt: 2.500 mg Path: UXB\
File 1 MU9 ST

D MO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 9 DATE 8-12-96 SAMPLE NO# 51

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Comp neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

TESTER Cook J.S. [signature]

Comments:
4000 gram friction weight
At 100 cm

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 9 DATE 8-12-96 SAMPLE NO# S2

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	CALORIMETRIC TEST: Results
Yes	No	Yes	No		
1.	✓	1.	✓	1.	1. Comp Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

TESTER Cook / A. Thrift

Comments:
4000 gram friction weight

(S)--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 9 DATE 8-12-96 SAMPLE NO# 53

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Comp Res
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook / S. Thrift

Comments:
4000 gram friction weight

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 9 DATE 8-12-96 SAMPLE NO# 54

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook

Comments:
4000 gram friction weight

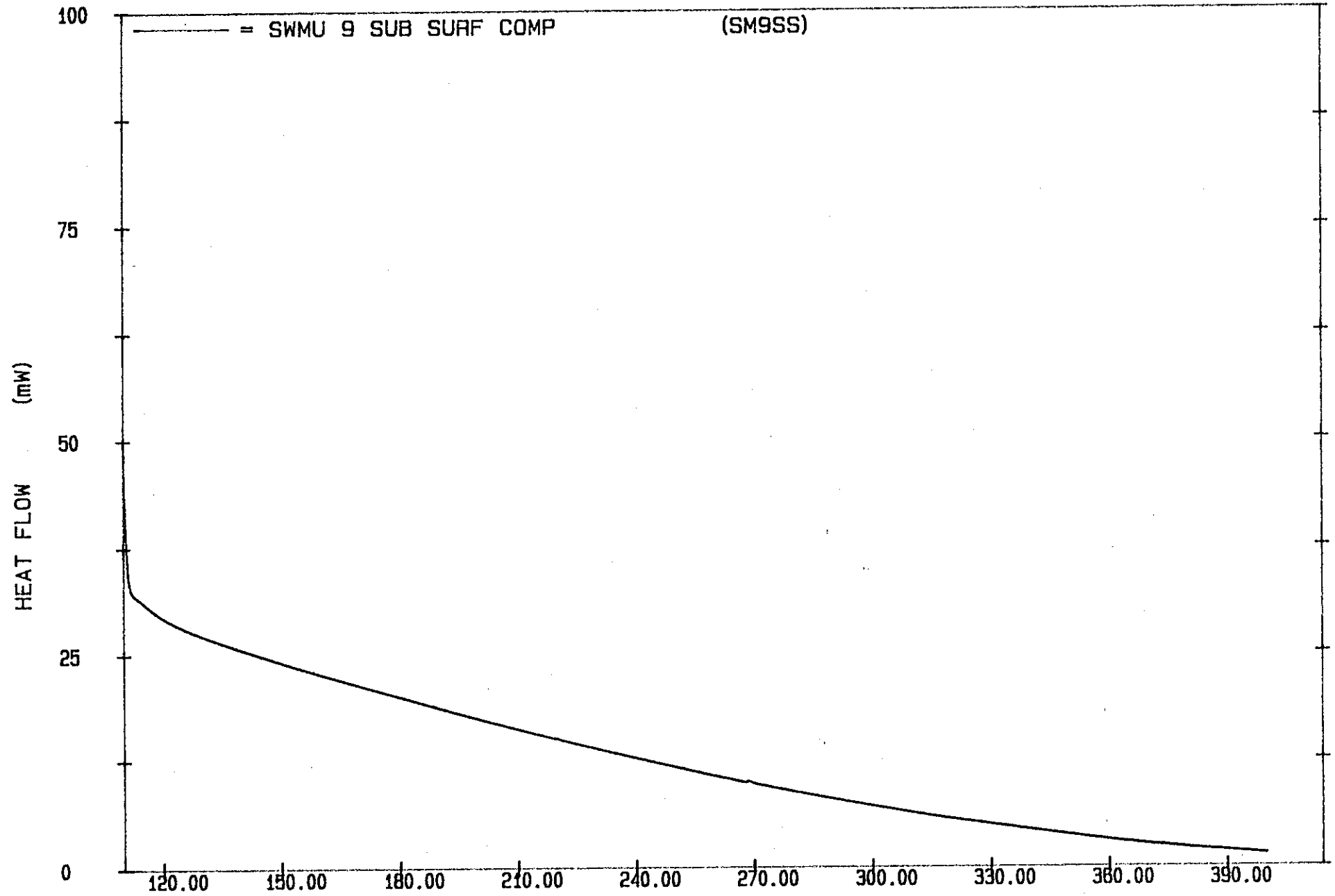
S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-3-96	SWMU 955 Comp	N	N	N	N	N	N	N

LEGEND
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 28, 1996 5:27pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM9SS ST 9-3-96

PERKIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 9 DATE 8/14/96 SAMPLE NO# SS 9-1

TESTER LIGON / COOK / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	X	1.	1.	Comp Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 9 DATE 8/14/96 SAMPLE NO# SS 9-2

TESTER J Goss / Cook / S Hunt

FRICTION TEST:

	Reactive Yes	Reactive No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

IMPACT TEST:

	Reactive Yes	Reactive No
1.		X
2.		X
3.		X
4.		X
5.		X
6.		X

DEPTH

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST:

Results

Comp Neg

Comments:

4000 GRAM TEST WEIGHT ON THE FRICTION TEST

1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE

SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 9 DATE 8/14/96 SAMPLE NO# SS 9-3

TESTER LIGON / COOK / S Shrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	X	1.	1.	Comp Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 9 DATE 8/14/96 SAMPLE NO# SS 9-4

TESTER Lowe/Cook

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	CALORIMETRIC TEST: Results
	Yes	No	Yes	No		
1.		✓		X	1.	1.
2.		✓		X	2.	2.
3.		✓		X	3.	3.
4.		✓		X	4.	4.
5.		✓		X	5.	5.
6.		✓		X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

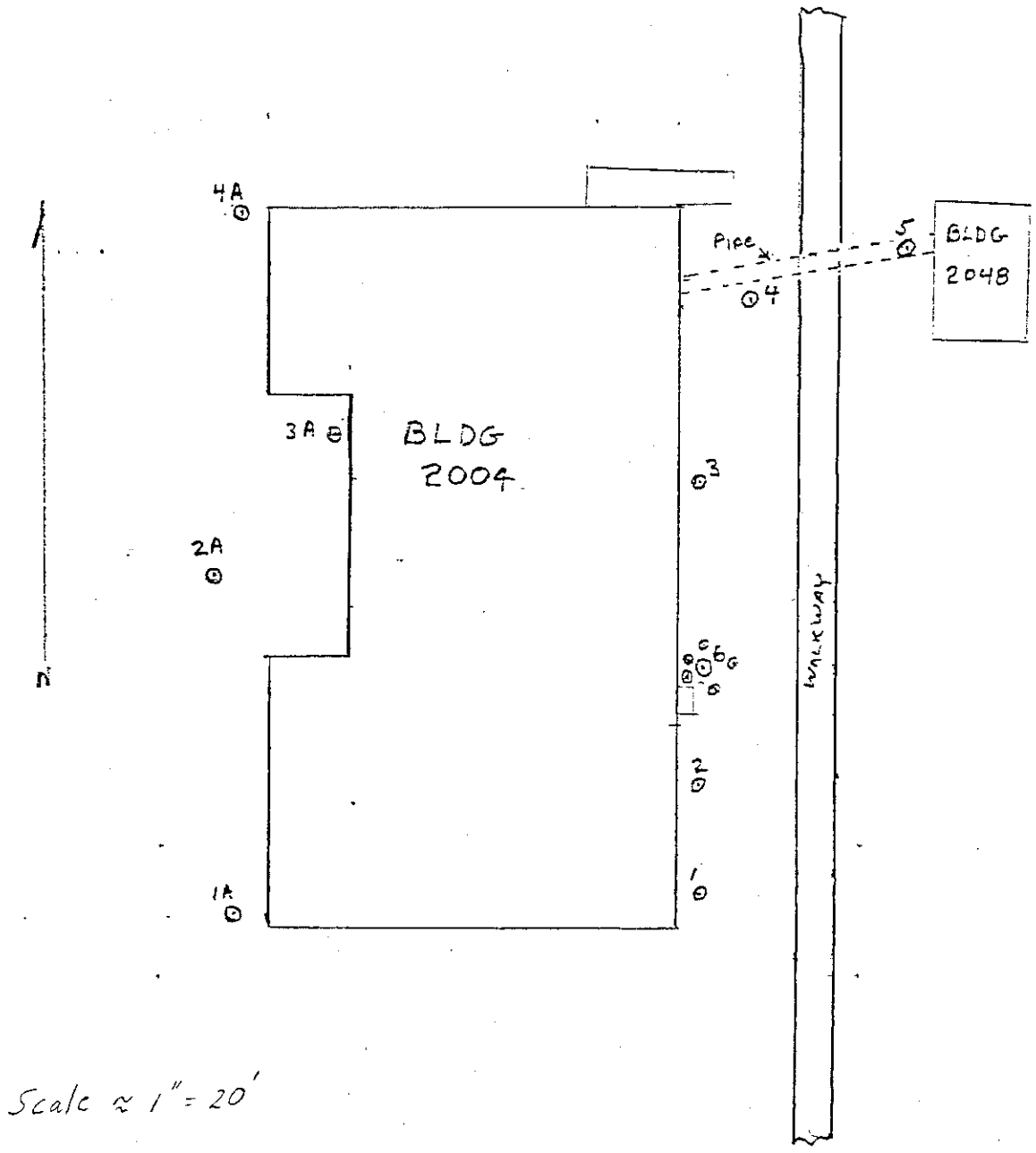
S--SURFACE
SS--SUBSURFACE

APPENDIX D

SWMU 10 - WASTE POWDER CATCH BASINS - BUILDING 2049

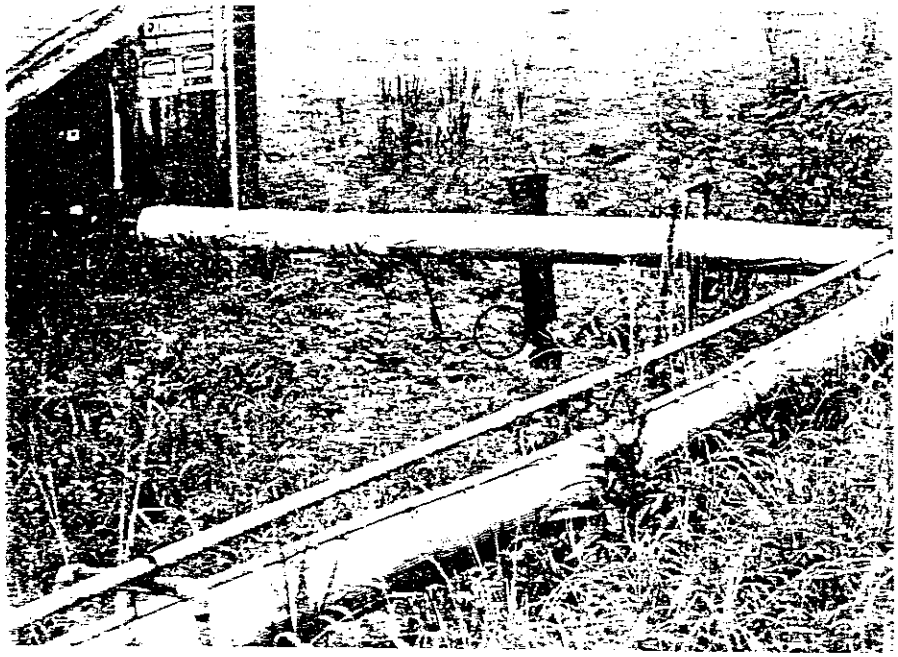
SWMU 10

WASTE POWDER CATCH BASIN BLDG 2048, TOOK 10 SURFACE SAMPLES (0-2") AND 10 SUBSURFACE SAMPLES (2-8").



SUMMARY OF ACTIVITIES FOR SWMU 10

Implementation of the ICM work plan for SWMU 10 consisted of taking surface (0-2") and subsurface (2-8") samples at 10 locations (see map). Samples 1A-4A (taken on the east side of Building 2004) and 1-5 (taken on the west side) tested negative for explosives using all three test methods. Calorimeter tests on surface samples were composited while subsurface samples were run individually. Sample 6 (surface) tested positive for impact on three of the six runs. To be conservative, this area was re-sampled in five locations surrounding the original sample location. These samples, designated 6 A-E were tested for impact only and the results were negative. The presence of explosives in reactive quantities was, thus, not confirmed at this location.







UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210	DDNP 180C	TET 280C	
8-14-96	SWMU 10	N	N	N	N	N	N	N	
8-15-96	10 B	N	N	N	N	N	N	N	Re Sampled

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

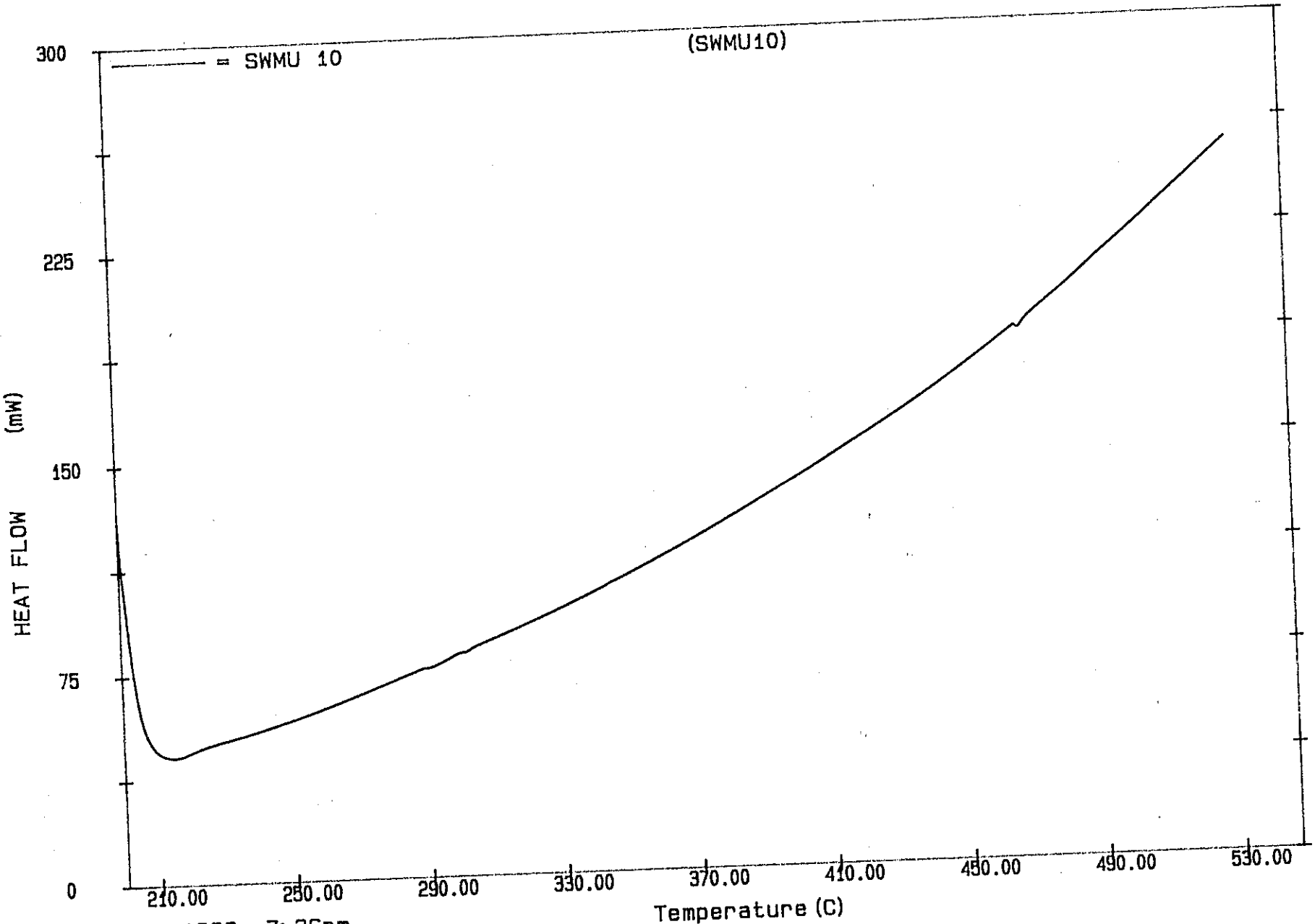
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

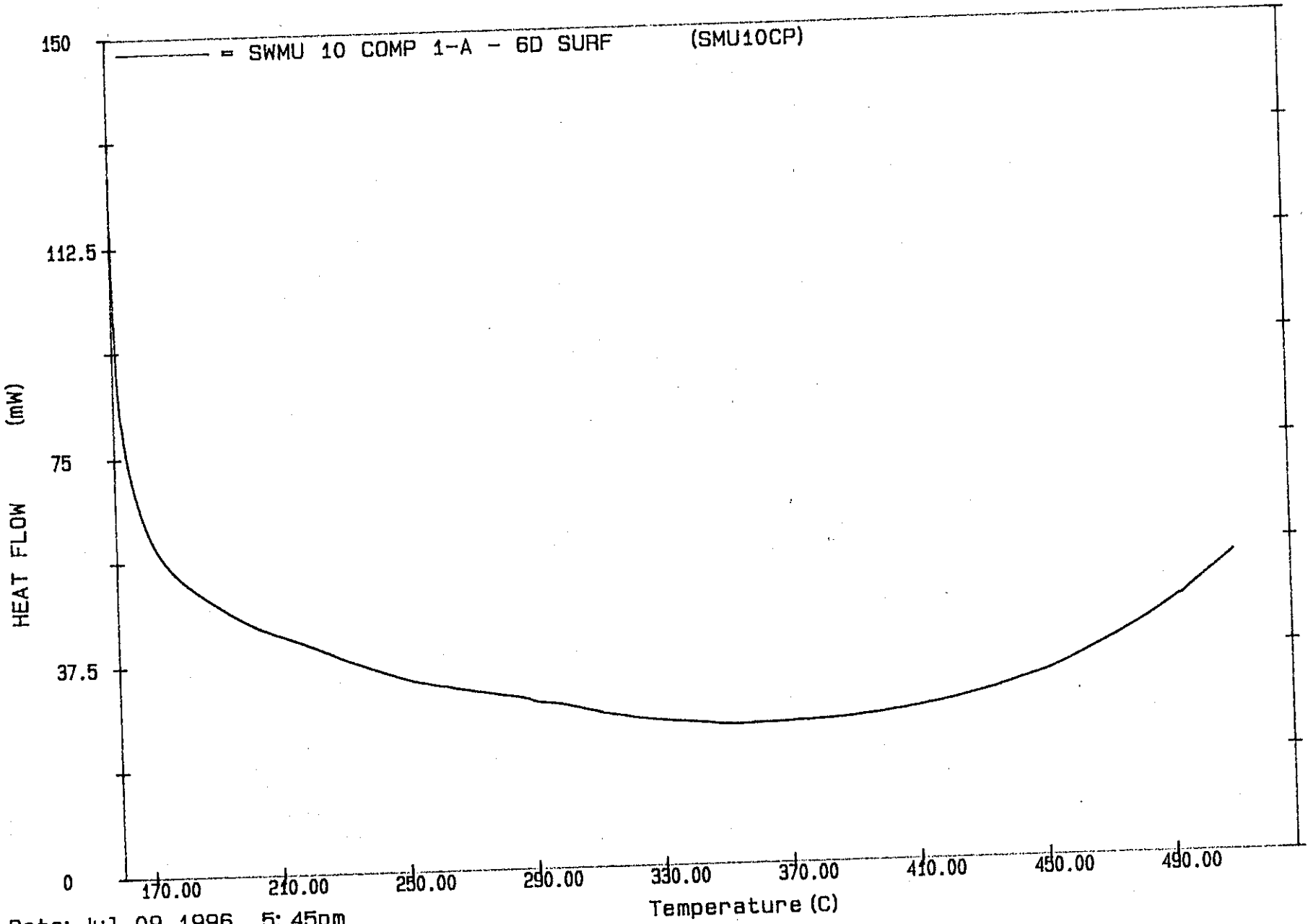
Y= YES

N= N0



Date: Jul 08, 1996 7:36pm
Scanning Rate: 25.0 C/min
Sam[illegible] Wt: 2.500 mg Path: C:\PE1\
Fil[illegible] SWMU10 ST

F'NO NOBEL



Date: Jul 09, 1996 5: 45pm
Scanning Rate: 20.0 C/min
Sample Wt: 2.500 mg Path: UXB\
File 1: SMU10CP ST

DYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/13/96 SAMPLE NO# • S1

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.		1.	X	1.	1.	Comp Neg
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER Cook / s Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/13/96 SAMPLE NO# S2

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓	1.	X	1.	1.	Comp Neg
2.		✓	2.	X	2.	2.	
3.		✓	3.	X	3.	3.	
4.		✓	4.	X	4.	4.	
5.		✓	5.	X	5.	5.	
6.		✓	6.	X	6.	6.	

TESTER Cook / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/13/96 SAMPLE NO# 53

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	X	1.	1.	
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER Cook/ Short

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/13/94 SAMPLE NO# 54

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			
1.	/	1.	X	1.	1.	Comp Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

TESTER cook / S Hunt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/13/97 SAMPLE NO# ~~56~~ JH2 55

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Comp neg
2. ✓		2. ✓		2.	2.	
3. ✓		3. ✓		3.	3.	
4. ✓		4. ✓		4.	4.	
5. ✓		5. ✓		5.	5.	
6. ✓		6. ✓		6.	6.	

TESTER cook/cook/s thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/13/96 SAMPLE NO# ~~55~~ 12 56

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3. ✓		3.	3.	
4.	✓	4. ✓		4.	4.	
5.	✓	5. ✓		5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook / Cook / Schmidt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/13/96 SAMPLE NO# 5 1A

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Corp Neg
2. ✓		2. ✓		2.	2.	
3. ✓		3. ✓		3.	3.	
4. ✓		4. ✓		4.	4.	
5. ✓		5. ✓		5.	5.	
6. ✓		6. ✓		6.	6.	

TESTER COOK / COOK / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/13/96 SAMPLE NO# S2A

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.		1.	✓	1.	1.	Comp neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook / Cook / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/13/96 SAMPLE NO# S 3A

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.		1.	✓	1.	1.	comp neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook / Cook / S. Hurt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/13/96 SAMPLE NO# 54A

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Comp neg
2. ✓		2.	✓	2.	2.	
3. ✓		3.	✓	3.	3.	
4. ✓		4.	✓	4.	4.	
5. ✓		5.	✓	5.	5.	
6. ✓		6.	✓	6.	6.	

TESTER H. Cook / Cook / S. Hunt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S.)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/15/96 SAMPLE NO# S$ 10-6-A

TESTER Lilgow/cook / S. thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	
1.	X	1.	X	1.	1.
2.	X	2.	X	2.	2.
3.	X	3.	X	3.	3.
4.	X	4.	X	4.	4.
5.	X	5.	X	5.	5.
6.	X	6.	X	6.	6.

CALORIMETRIC TEST:
Results

Comp neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/15/96 SAMPLE NO# S~~S~~ 10-~~6~~-13

TESTER Rigon / cook / S. thrut

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/15/96 SAMPLE NO# SS 10-6-C

TESTER Lilgan/Cook/Schmit

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/15/96 SAMPLE NO# S~~S~~ 10-~~6~~-D

TESTER Zigow/cook/ S. Hart

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1. Comp Neg
2.	X	2.	X	2.	2.
3.	X	3.	X	3.	3.
4.	X	4.	X	4.	4.
5.	X	5.	X	5.	5.
6.	X	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8/15/96 SAMPLE NO# S~~S~~ 10-6-E

TESTER /s. [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-28-96	SWM4 1055							
	10-1	N	N	N	N	N	N	N
	10-2	N	N	N	N	N	N	N
	10-3	N	N	N	N	N	N	N
	10-4	N	N	N	N	N	N	N
	10-5	N	N	N	N	N	N	N
	10-6	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

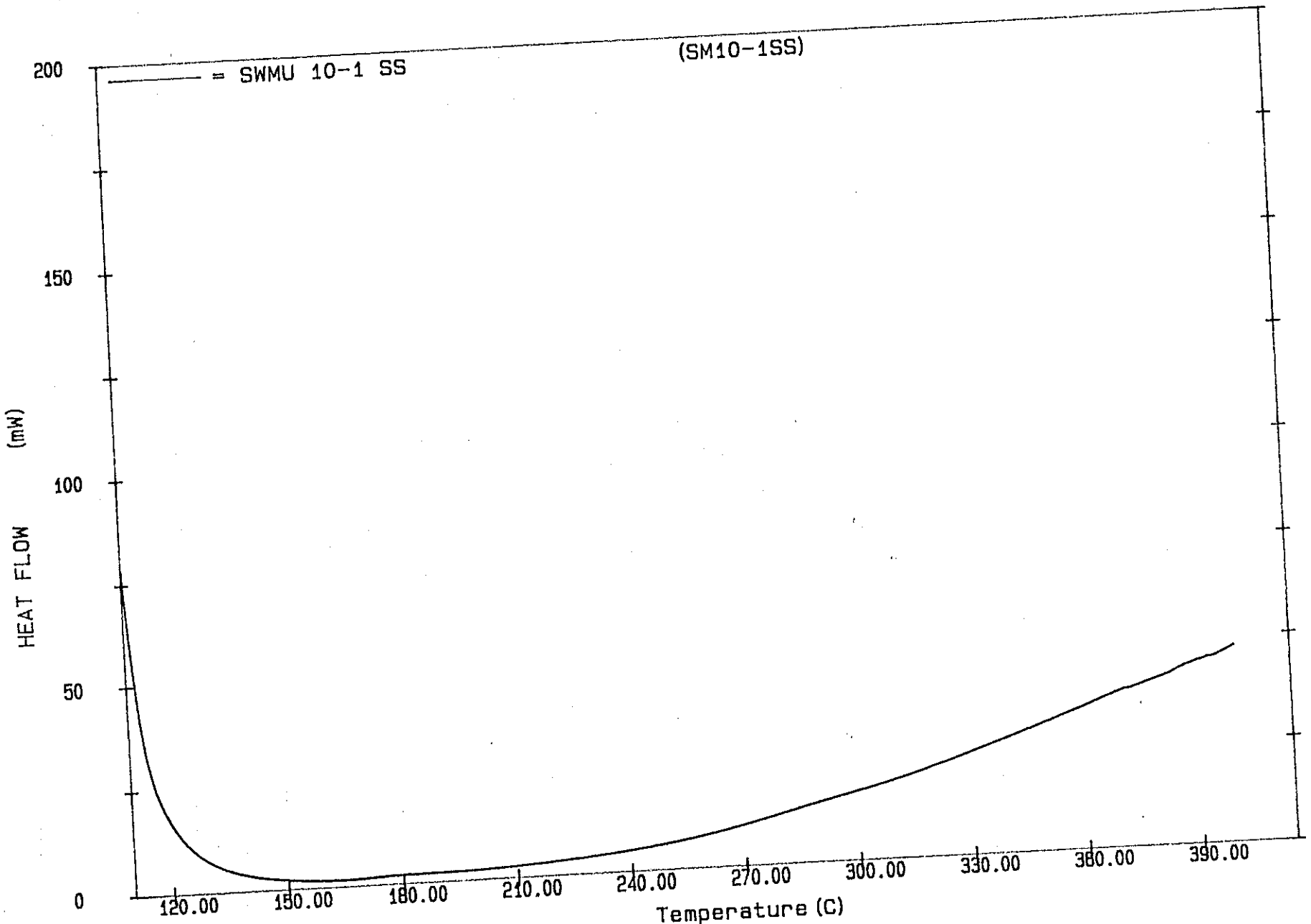
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

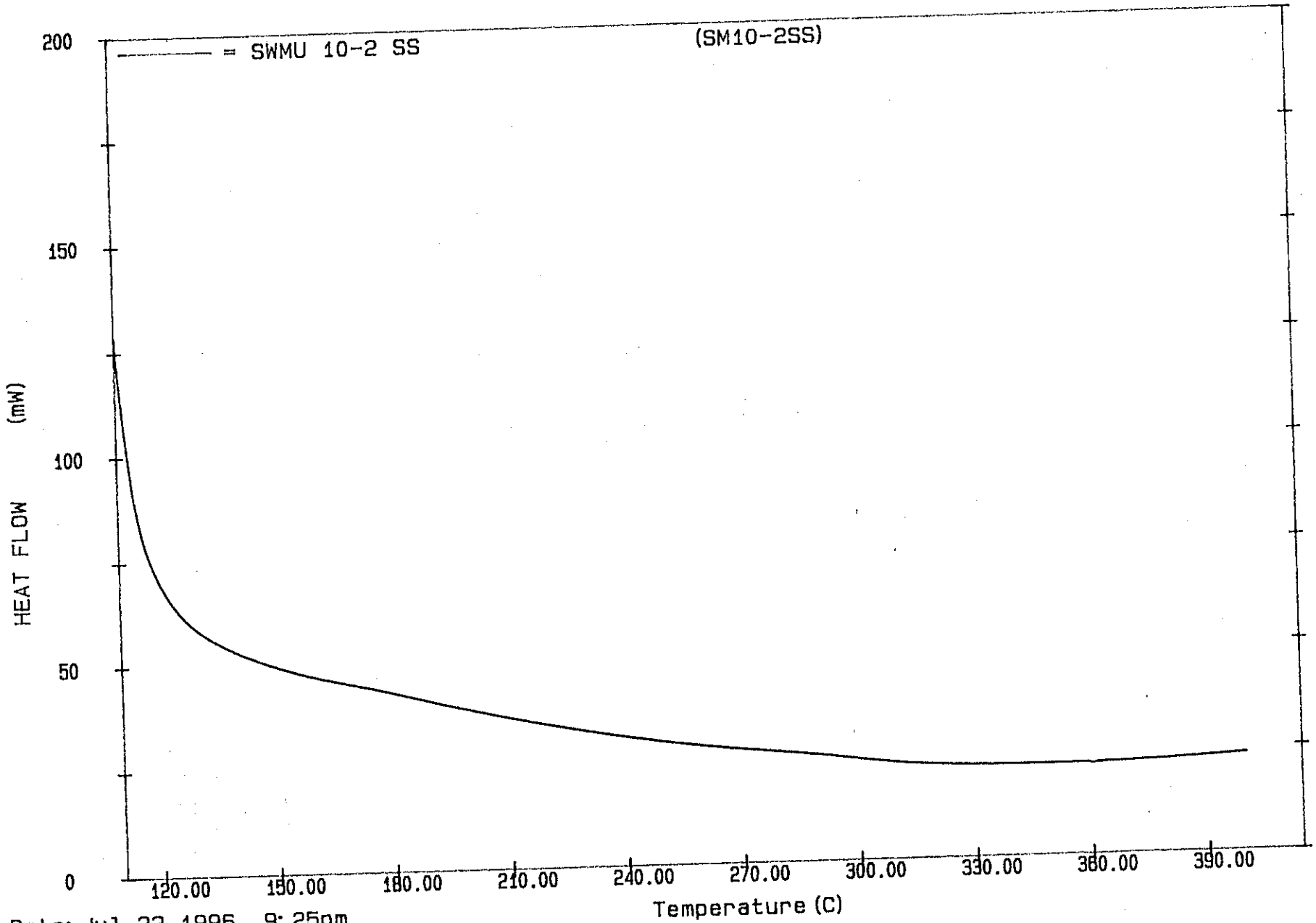
Y= YES

N= N0



Date: Jul 22, 1996 9:03pm
Scanning Rate: 20.0 C/min
Sa[illegible] Wt: 0.000 mg Path: C:\PE\
File: SM10-1SS ST 8-28-96

PERKIN-ELMER DSC7



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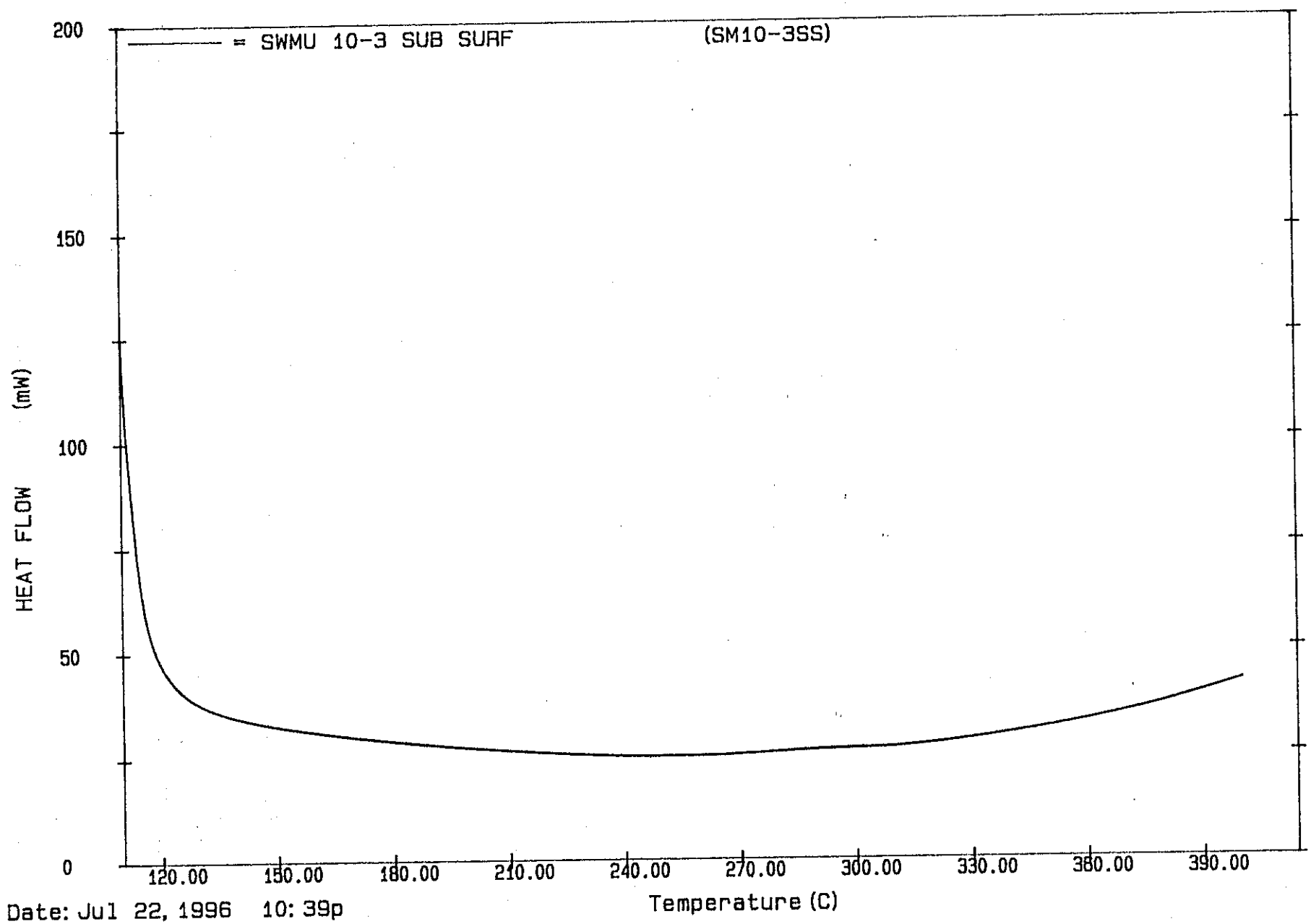
File: SM10-2SS ST 8-28-96

PERKIN-ELMER DSC7



Date: Jul 22, 1996 10: 39p
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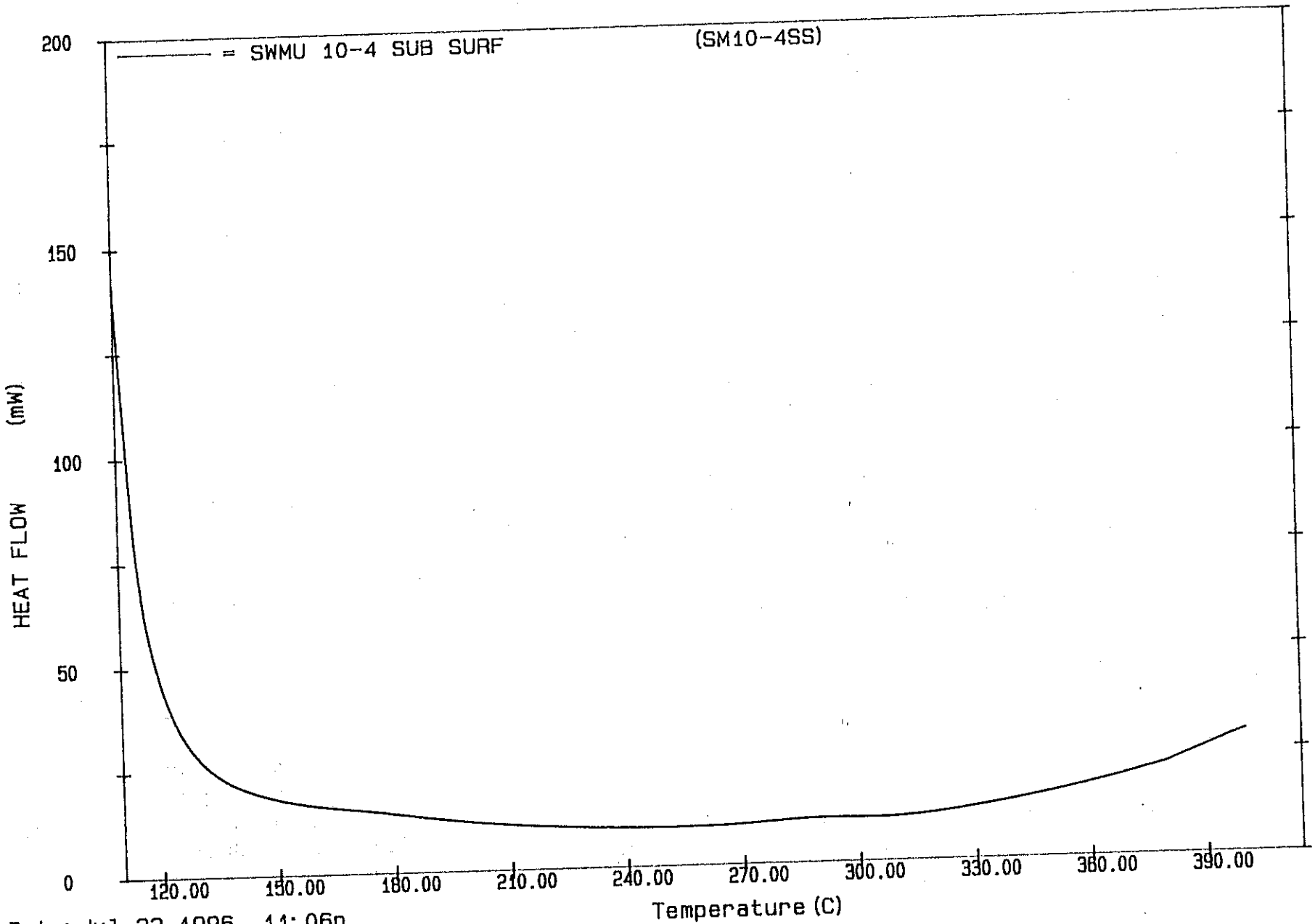
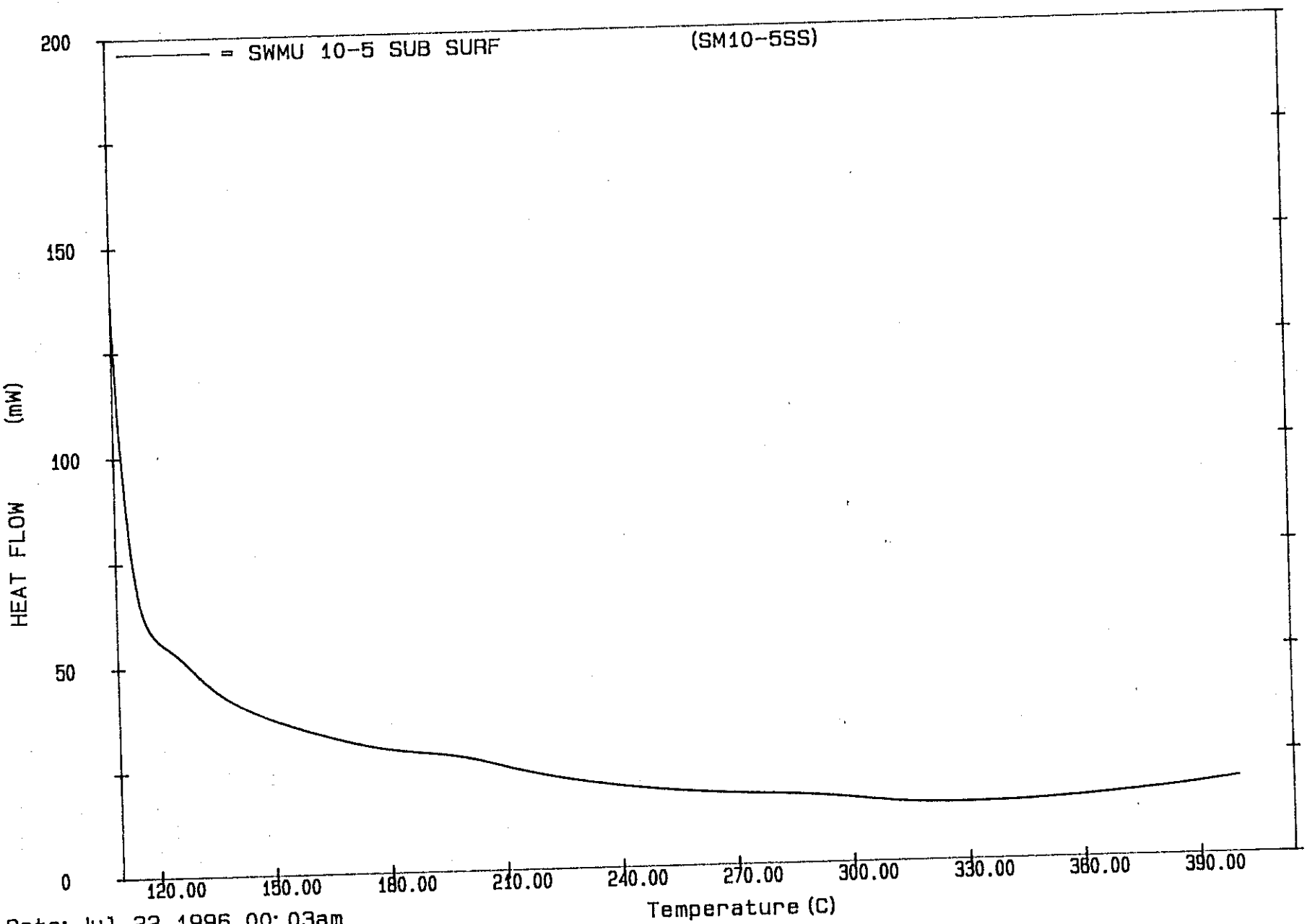
Sample Wt: 0.000 mg Path: C: \PE\
File: SM10-3SS ST 8-28-96

PERKIN-ELMER DSC7



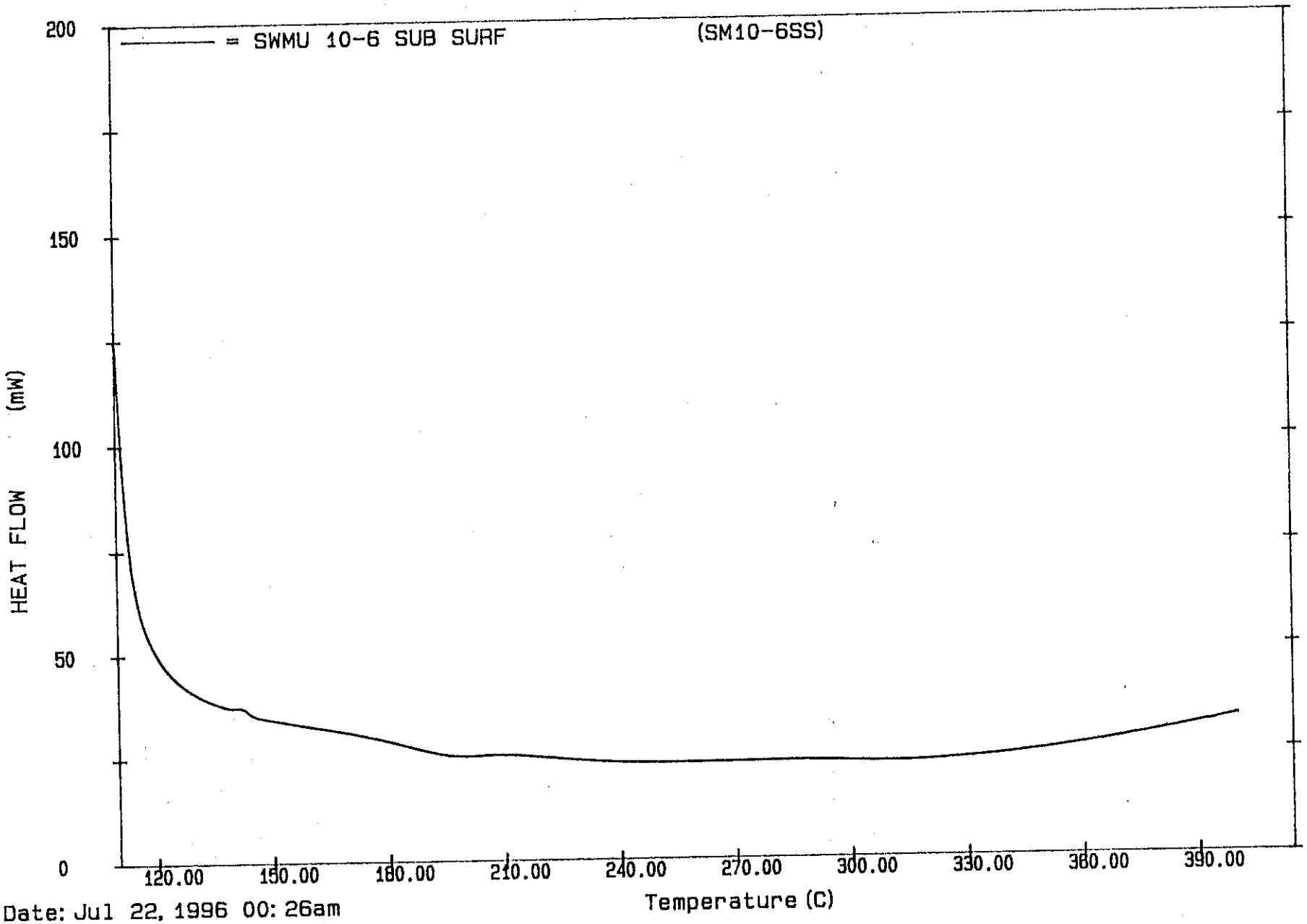
Date: Jul 22, 1996 11:06p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM10-4SS ST 8-28-96

PERKIN-ELMER DSC7



Date: Jul 22, 1996 00:03am
Scanning Rate: 20.0 C/min
Sa[illegible] Wt: 0.000 mg Path: C:\PE\
Fi[illegible]: SM10-5SS ST 8-28-96

PE[illegible] IN-ELMER DSC7



Date: Jul 22, 1996 00:26am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
F[illegible]: SM10-6SS ST 8-28-96

PE[illegible]TN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8-19-96 SAMPLE NO# SS 1

TESTER Cook / Ligon / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1. Neg
2.	X	2.	X	2.	2.
3.	X	3.	X	3.	3.
4.	X	4.	X	4.	4.
5.	X	5.	X	5.	5.
6.	X	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8-19-96 SAMPLE NO# SS 2

TESTER Cook Ligon / Schmit

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X	1.		1.	1.	Neg
2.		X	2.		2.	2.	
3.		X	3.		3.	3.	
4.		X	4.		4.	4.	
5.		X	5.		5.	5.	
6.		X	6.		6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 16 DATE 8-19-96 SAMPLE NO# SS 3

TESTER Irgon Cook / S. Smit

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8-19-96 SAMPLE NO# SS 4

TESTER Ligon Cook / Schmit

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes	No	Yes	No			
1.		X		X	1.	1.	Neg
2.		X		X	2.	2.	
3.		X		X	3.	3.	
4.		X		X	4.	4.	
5.		X		X	5.	5.	
6.		X		X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8-19-96 SAMPLE NO# SS 5

TESTER Ligon Cook / Schmidt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X		X	1.	1.	No
2.		X		X	2.	2.	
3.		X		X	3.	3.	
4.		X		X	4.	4.	
5.		X		X	5.	5.	
6.		X		X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 10 DATE 8-19-96 SAMPLE NO# SS 10

TESTER Ligon Cook / Schrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

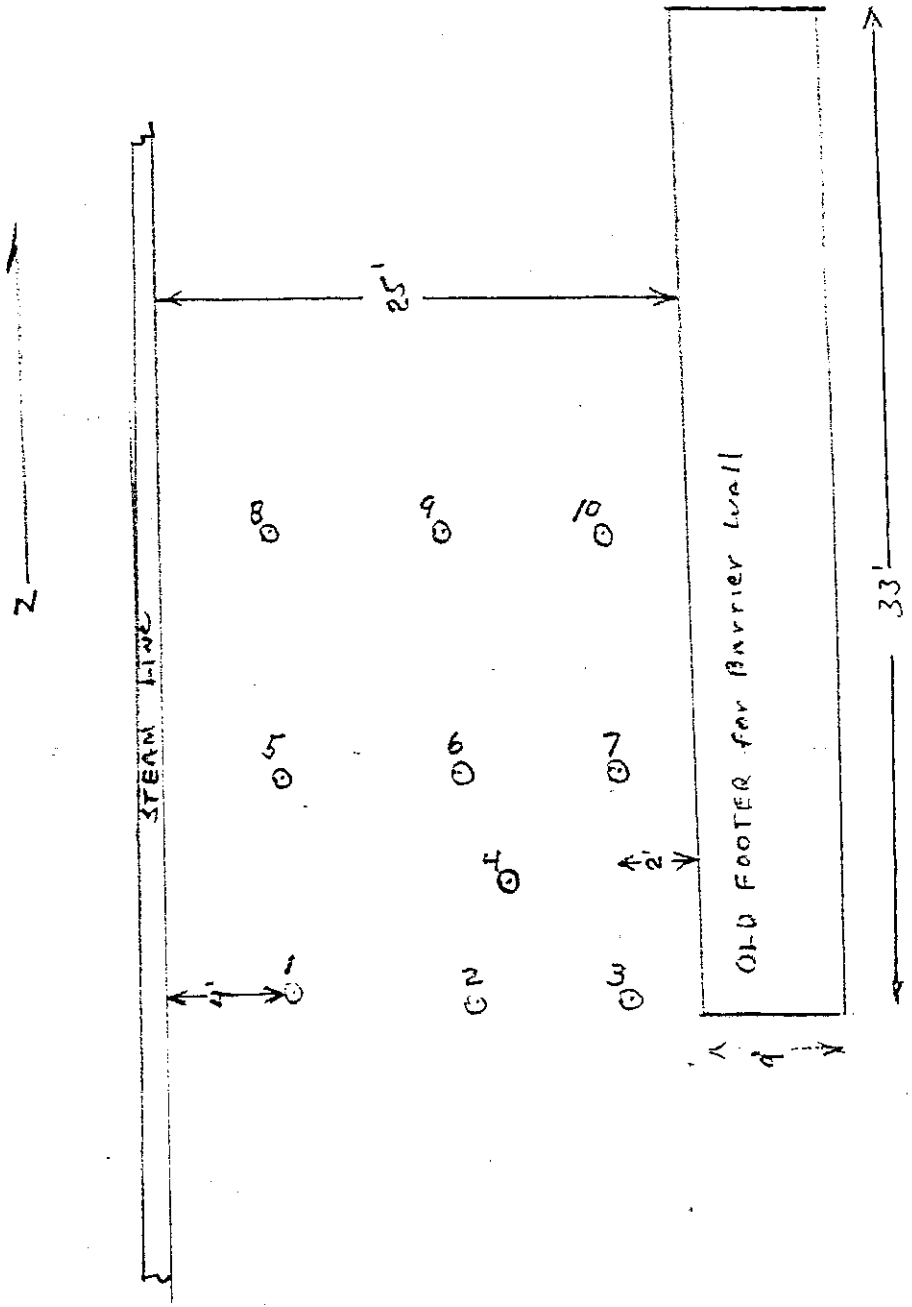
S--SURFACE
SS--SUBSURFACE

APPENDIX E

SWMU 11 - WASTE POWDER CATCH BASINS - BUILDING 2049

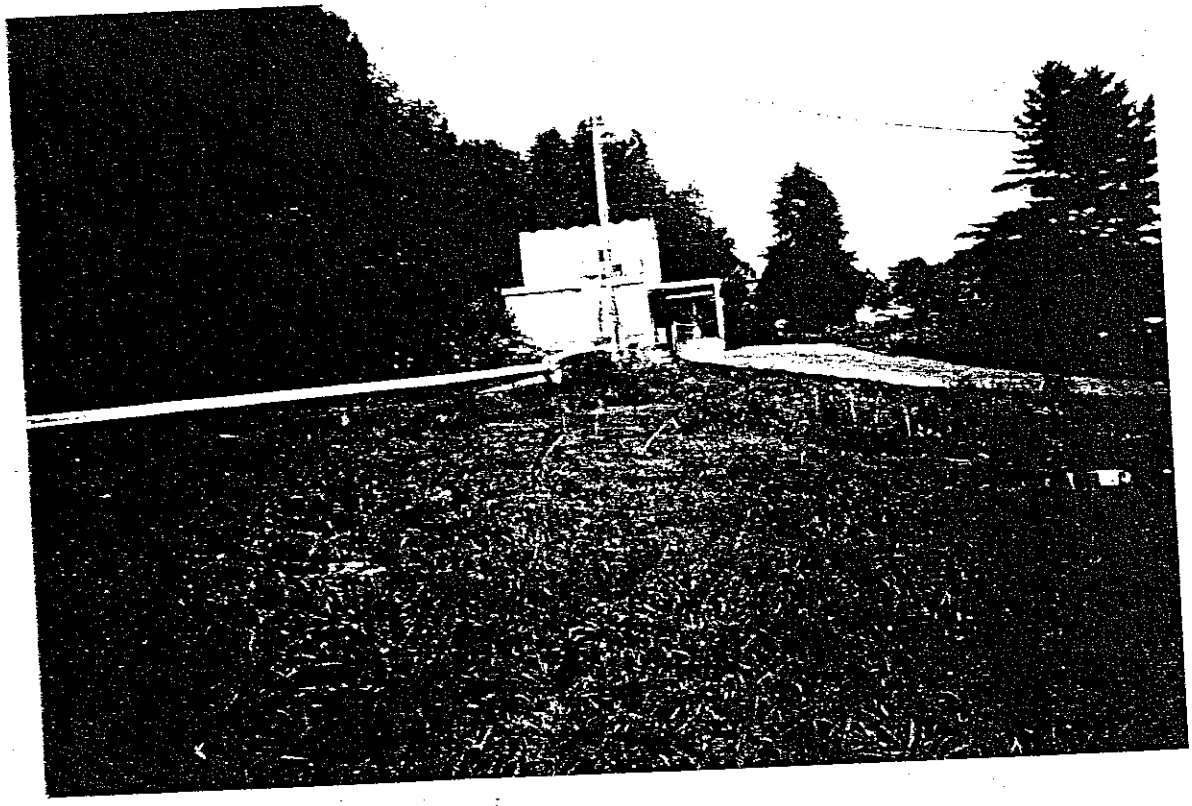
SWMU 11

WASTE POWDER CATCH BASIN BLDG 2049 (DESTROYED), TOOK 6 SURFACE SAMPLES (0-2") AND 10 SUBSURFACE SAMPLES (2-8").



SUMMARY OF ACTIVITIES FOR SWMU 11

The implementation of the ICM work plan for SWMU 11 consisted of taking 6 surface (0-2") and 10 subsurface (2-8") samples (see map). These samples were taken between the steam line and the old barrier wall footer. Additional samples 7-10 were taken at subsurface depth only. This was based on the negative results of friction and impact from the first six surface samples and the knowledge that shallow soils in the area had been re-worked during demolition of Building 2049. Test results were negative for explosives using all three test methods. Both surface and subsurface samples were run as composites on the calorimeter.

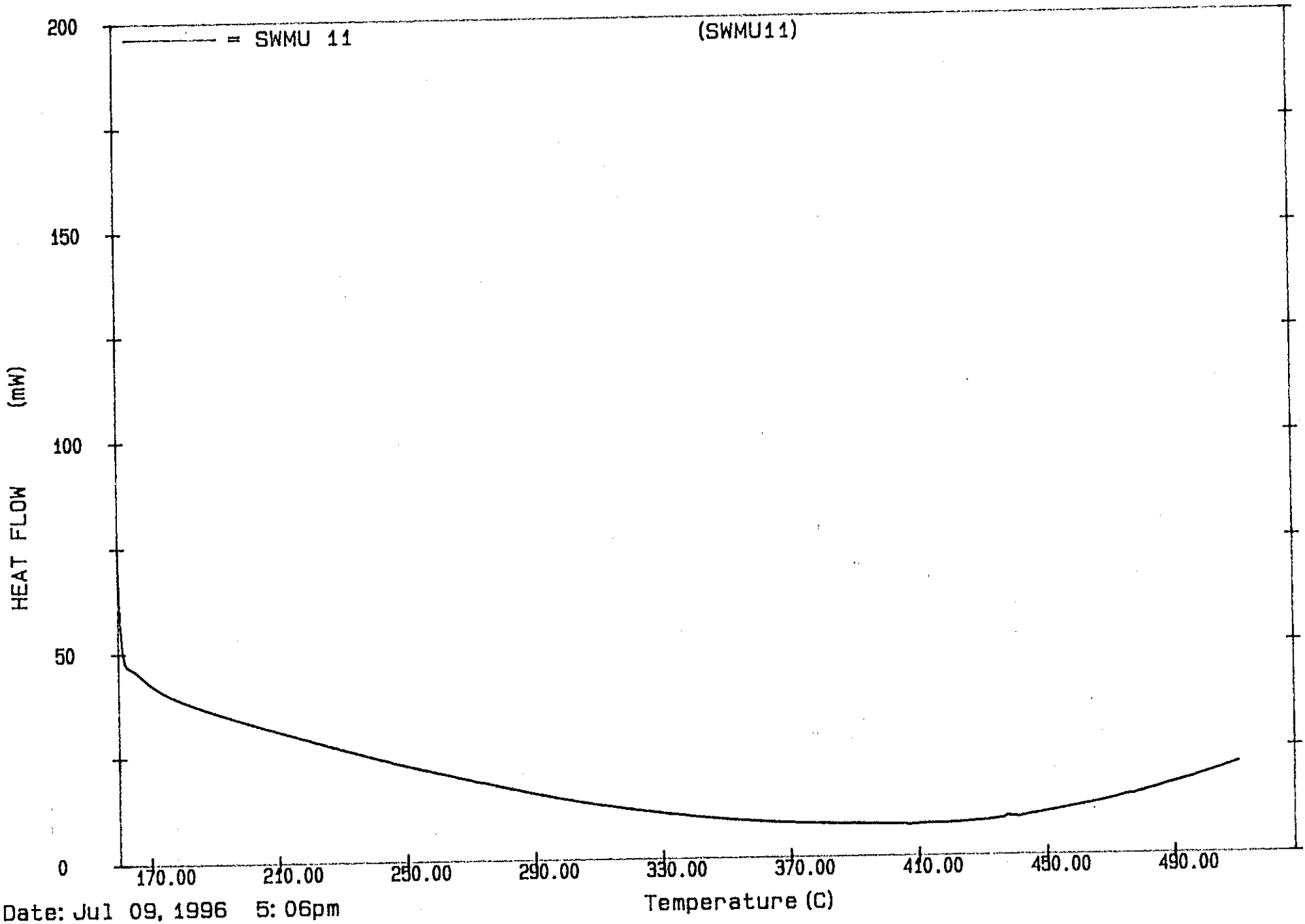


UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-15-96	SM4 11 S	N	N	N	N	N	N	N

LEGEND
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 09, 1996 5:06pm
Scanning Rate: 20.0 C/min
Sample Wt: 2.500 mg Path: UXB\
File: SWMU11 ST

NYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/13/96 SAMPLE NO# 51

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Comp Ng
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER COOK / LIGON / SHIFT

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/13/96 SAMPLE NO# S 2

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Comp Neg
2. ✓		2. ✓		2.	2.	
3. ✓		3. ✓		3.	3.	
4. ✓		4. ✓		4.	4.	
5. ✓		5. ✓		5.	5.	
6. ✓		6. ✓		6.	6.	

TESTER Cook / Lyon / Shutt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/13/96 SAMPLE NO# S 3

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook/Lyon / S. Hart

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/13/96 SAMPLE NO# 54

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Comp Neg
2. ✓		2.	✓	2.	2.	
3. ✓		3.	✓	3.	3.	
4. ✓		4.	✓	4.	4.	
5. ✓		5.	✓	5.	5.	
6. ✓		6.	✓	6.	6.	

TESTER [signature] Is Not

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S) SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/13/96 SAMPLE NO# 55

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	✓	1.	1.	
2. ✓		2. ✓		2.	2.	
3. ✓		3. ✓		3.	3.	
4. ✓		4. ✓		4.	4.	
5. ✓		5. ✓		5.	5.	
6. ✓		6. ✓		6.	6.	

TESTER Cook / Ligon / S. Thist

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/13/96 SAMPLE NO# 56

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Comp 7kg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook / Ligon / S. Hart

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-21-96	Swmu 11 SS Comp	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

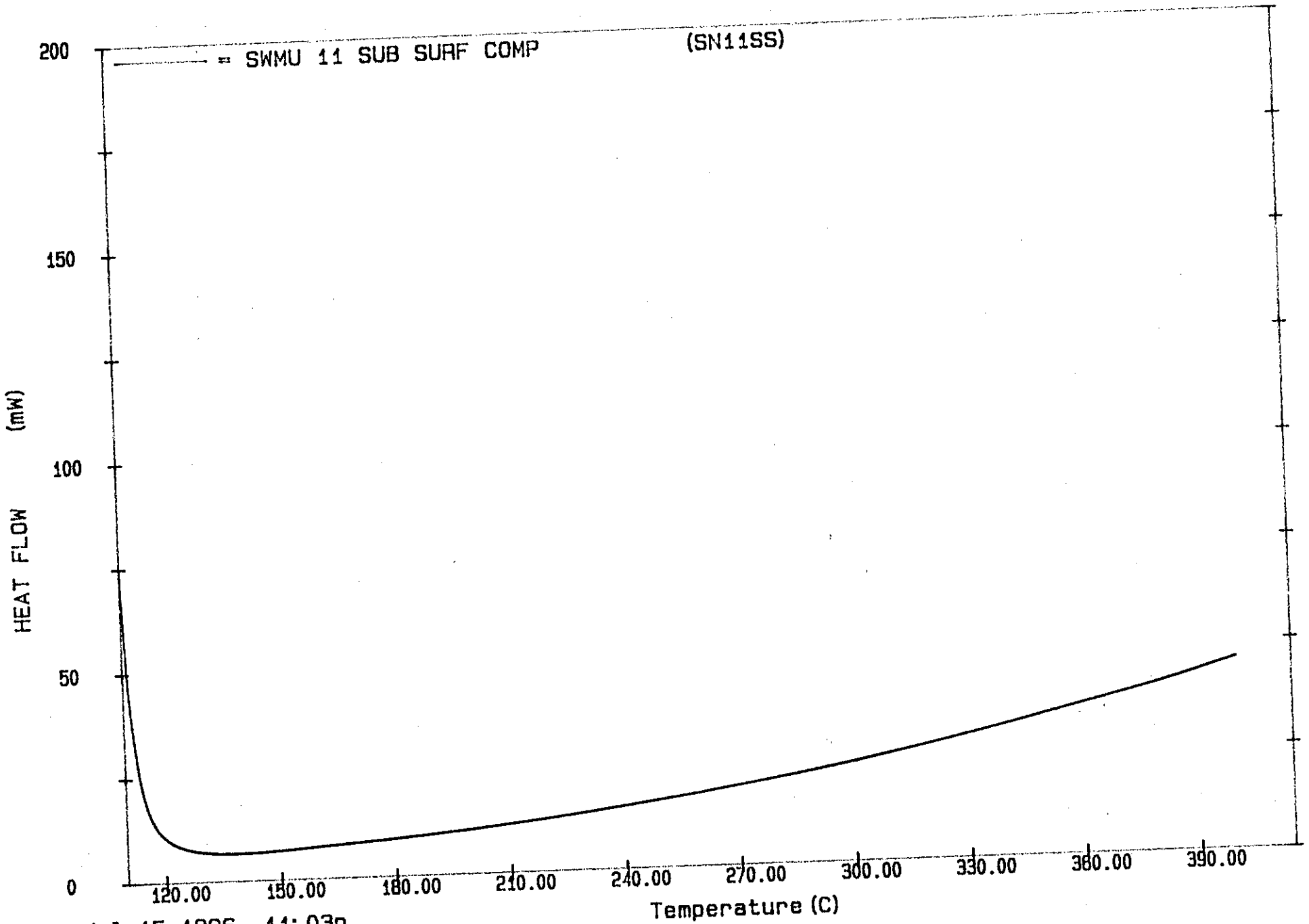
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

N= N0



Date: Jul 15, 1996 11:03p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: SN11SS ST 8-21-96

YNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/14/96 SAMPLE NO# SS 11-1

TESTER Wilson / Cook / Schmit

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/14/96 SAMPLE NO# SS 11-2

TESTER L/Gow / Cook / S Hunt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1. Comp Neg
2.	X	2.	X	2.	2.
3.	X	3.	X	3.	3.
4.	X	4.	X	4.	4.
5.	X	5.	X	5.	5.
6.	X	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/14/96 SAMPLE NO# SS 11-3

TESTER Zigon / Cook / Schrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/14/96 SAMPLE NO# SS 11-4

TESTER Lloon / Cook / Schmit

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/14/96 SAMPLE NO# SS 11-S

TESTER Wigan / Cook / Schrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	Comp Neg
2.	X	2.	X	2.	
3.	X	3.	X	3.	
4.	X	4.	X	4.	
5.	X	5.	X	5.	
6.	X	6.	X	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/14/96 SAMPLE NO# SS 11-6

TESTER LIGON / COOK / D Wright

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/14/96 SAMPLE NO# SS 11-7

TESTER Allen / Cook / Shuyt

FRICTION TEST:

	Reactive Yes	Reactive No
1.		X
2.		X
3.		X
4.		X
5.		X
6.		X

IMPACT TEST:

	Reactive Yes	Reactive No
1.		X
2.		X
3.		X
4.		X
5.		X
6.		X

DEPTH

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST:
Results

Comp Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/14/96 SAMPLE NO# SS 11-8

TESTER WILSON/COOK/SHIFT

FRICTION TEST: IMPACT TEST: DEPTH

	Reactive Yes	Reactive No				
1.		X	1.	X	1.	1.
2.		X	2.	X	2.	2.
3.		X	3.	X	3.	3.
4.		X	4.	X	4.	4.
5.		X	5.	X	5.	5.
6.		X	6.	X	6.	6.

CALORIMETRIC TEST:
Results

Comp Wt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/14/96 SAMPLE NO# SS 11-9

TESTER L/Gow/Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1. Comp Neg
2.	X	2.	X	2.	2.
3.	X	3.	X	3.	3.
4.	X	4.	X	4.	4.
5.	X	5.	X	5.	5.
6.	X	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 DATE 8/14/96 SAMPLE NO# SS 11-10

TESTER LIGON/COOK / S Shrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

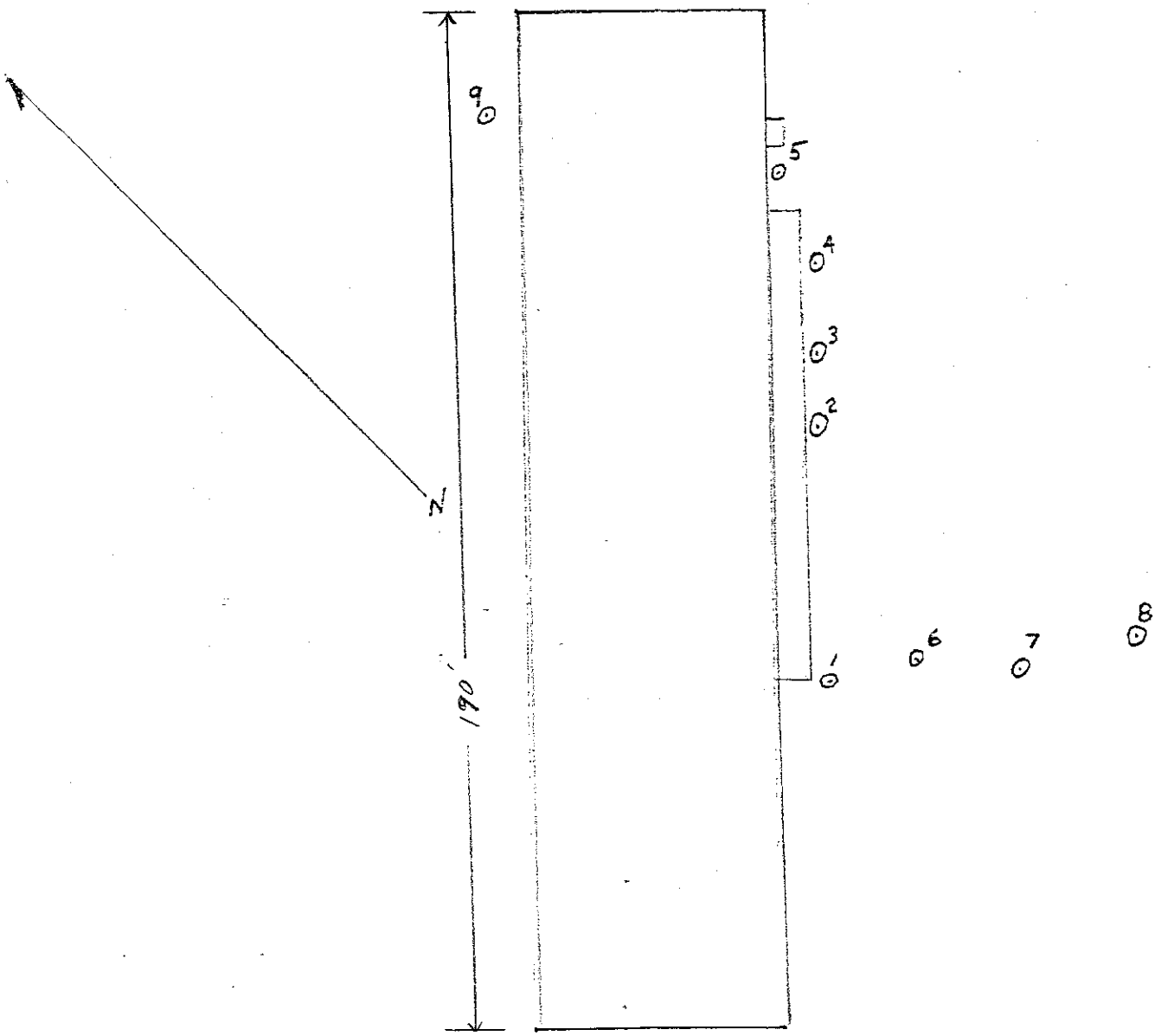
S--SURFACE
SS--SUBSURFACE

APPENDIX F

SWMU 13 - FORMER WASTE POWDER CATCH BASINS - LEAD AZIDE BUILDING

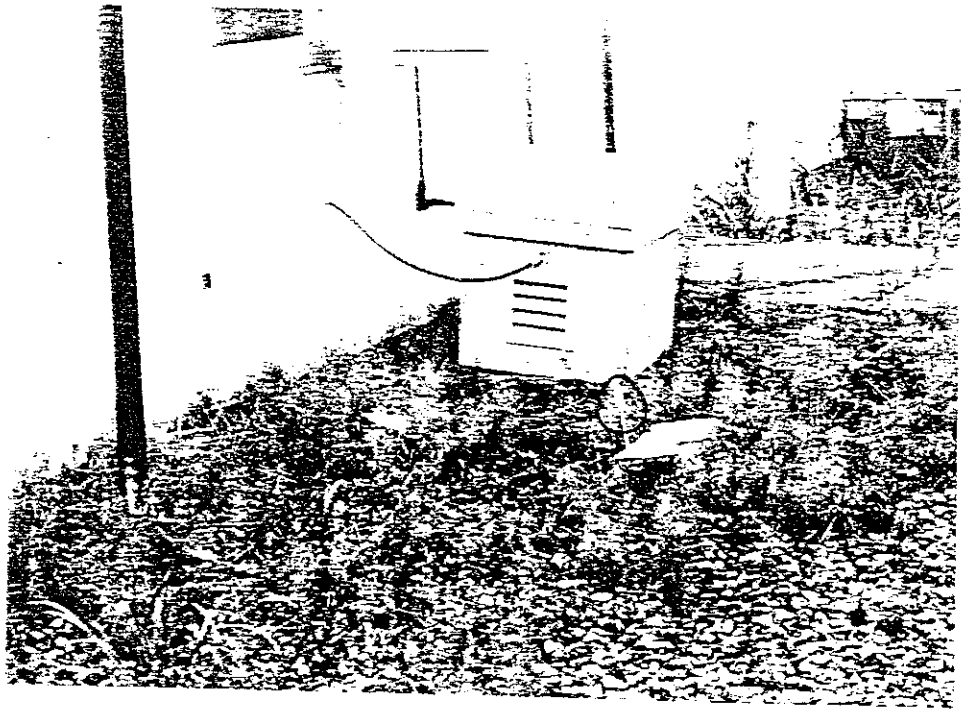
SWMU 13

FORMER WASTE POWDER CATCH BASINS BLDG 3001, TOOK 8 SURFACE SAMPLES (0-2") AND 9 SUBSURFACE SAMPLES (2-8").

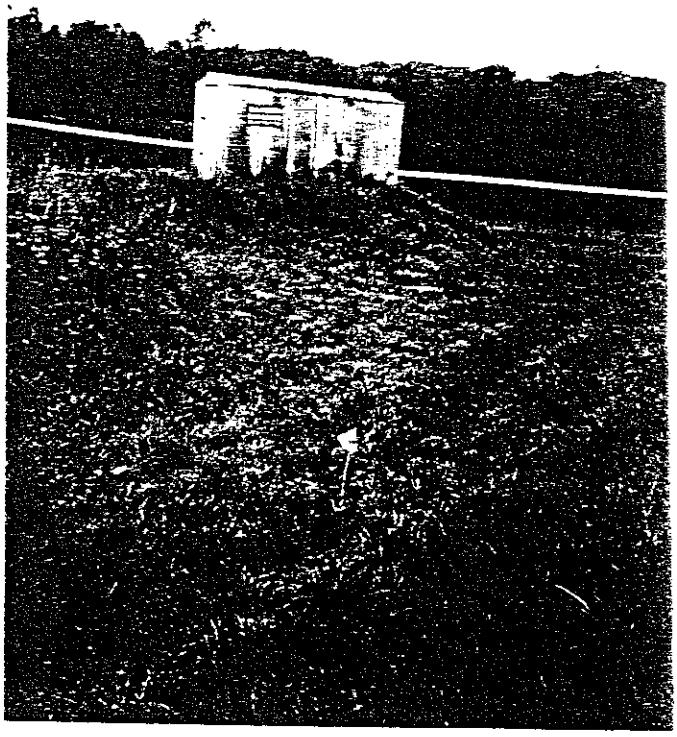


SUMMARY OF ACTIVITIES FOR SWMU 13

The implementation of the ICM work plan for SWMU 13 consisted of taking eight surface (0-2") and 9 subsurface (2-8") samples (see map). Samples 1-8 were collected behind facility Building 3001. Sample 9 was collected at the northeast side of the building at a suspected discharge area. The surface in this area (Sample 9) was covered with several inches of coarse gravel, therefore, only a subsurface sample of the soil beneath the gravel was taken. Calorimeter tests for surface samples were composites while subsurface samples were run individually. All samples tested negative for explosives using all three test methods.







UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-20-96	SAM4135	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

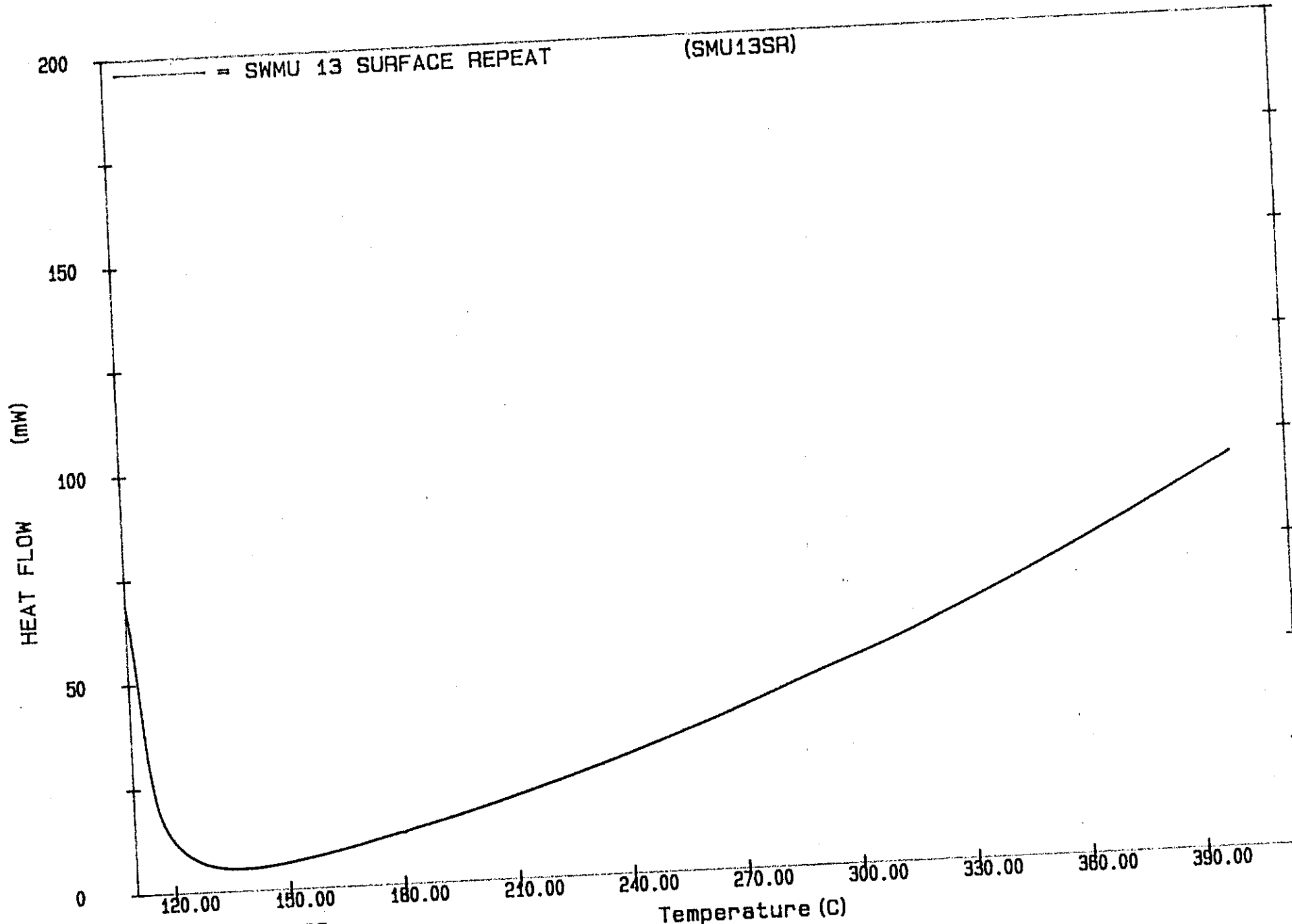
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

N= N0



Date: Jul 14, 1996 5:33pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: 1: SMU13SR ST 8-20-96

DYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8-12-96 SAMPLE NO# 51

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg.
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER JCC / S. Thrift

Comments:
4000 gram test weight for friction testing
1 Kg Impact Test

S--SURFACE ✓
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8-12-96 SAMPLE NO# 52

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	X	1.	1.	
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER Cook / Thrift / Sthrit

Comments: 4000 gm weight friction Test
1 Kg on Impact Test

S--SURFACE ✓
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/12/96 SAMPLE NO# 53

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook / THRIFT / S. Hunt

Comments: 4000 gm friction Test
1 Kg on Impact Test

S--SURFACE ✓
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/12/96 SAMPLE NO# 54

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Comp neg
1.	/	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	/	3.	✓	3.	3.	
4.	/	4.	✓	4.	4.	
5.	/	5.	✓	5.	5.	
6.	/	6.	✓	6.	6.	

TESTER Cook / THRIFT / S. Thrift

Comments: 4000 grm friction Test
1 Kg on Impact test

S--SURFACE ✓
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8-12-96 SAMPLE NO# 55

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER HST/Cook/S. Hunt

Comments:
4000 gm friction test
1 Kg on Impact test

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8-12-96 SAMPLE NO# 56

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Comp. Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Thrift / Cook / S. Hurt

Comments:
4000 gram friction tester
1 Kg on Impact Test

S--SURFACE ✓
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8-12-96 SAMPLE NO# 57

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Thrift / Cook / S. Thrift

Comments:
4000 gram friction weight
1 Kg on Impact test

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8-12-96 SAMPLE NO# 58

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			
1.	/	1.	/	1.	1.	Comp Neg
2.	/	2.	/	2.	2.	
3.	/	3.	/	3.	3.	
4.	/	4.	/	4.	4.	
5.	/	5.	/	5.	5.	
6.	/	6.	/	6.	6.	

TESTER Thrift/Cook/S. Thrift

Comments:
4000 gram friction weight
1 kg on impact test

S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-3-96	SWMU 1355							
	1	N	N	N	N	N	N	N
	2	N	N	N	N	N	N	N
	3	N	N	N	N	N	N	N
	4	N	N	N	N	N	N	N
	5	N	N	N	N	N	N	N
	6	N	N	N	N	N	N	N
	7	N	N	N	N	N	N	N
	8	N	N	N	N	N	N	N
	9	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

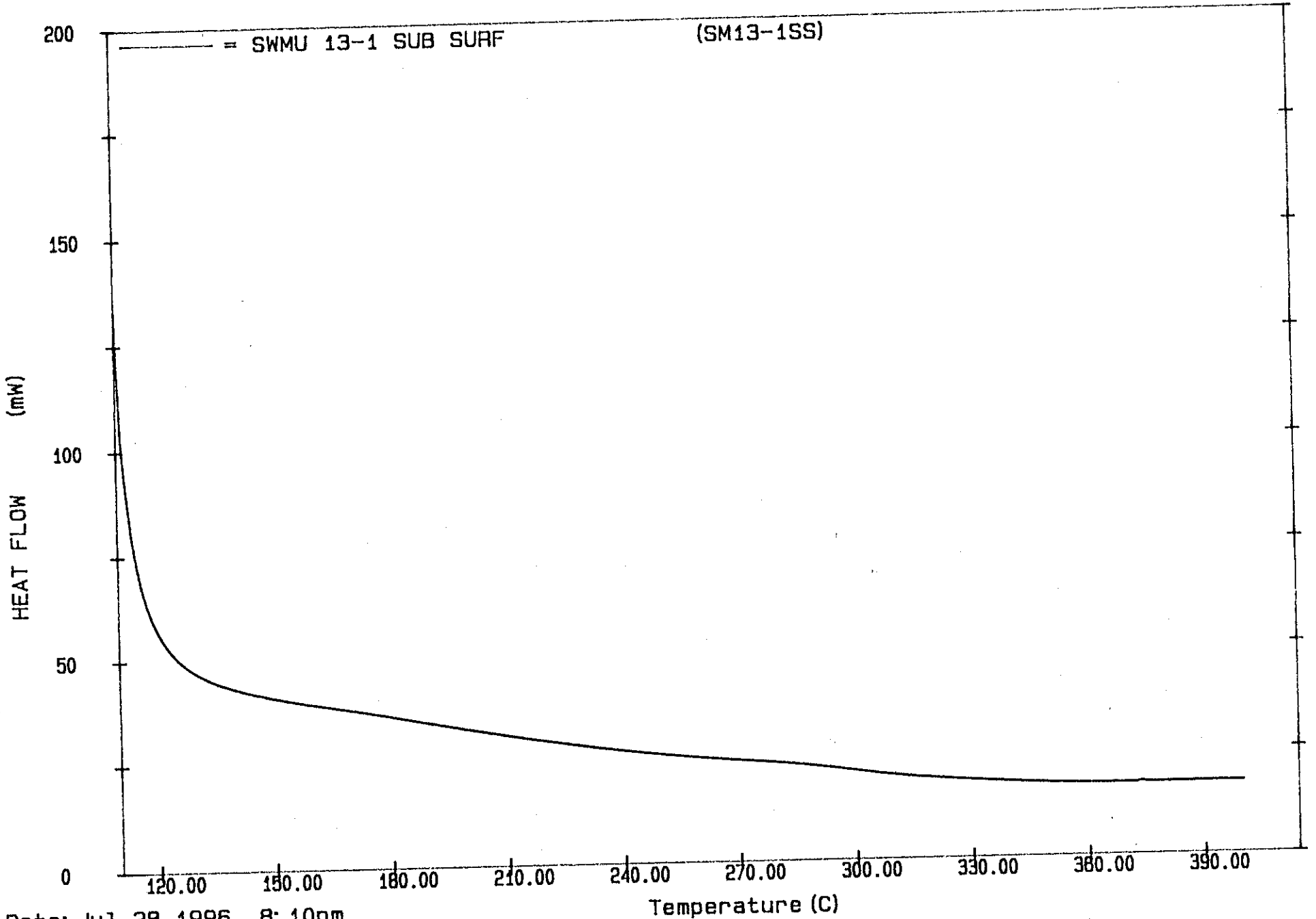
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

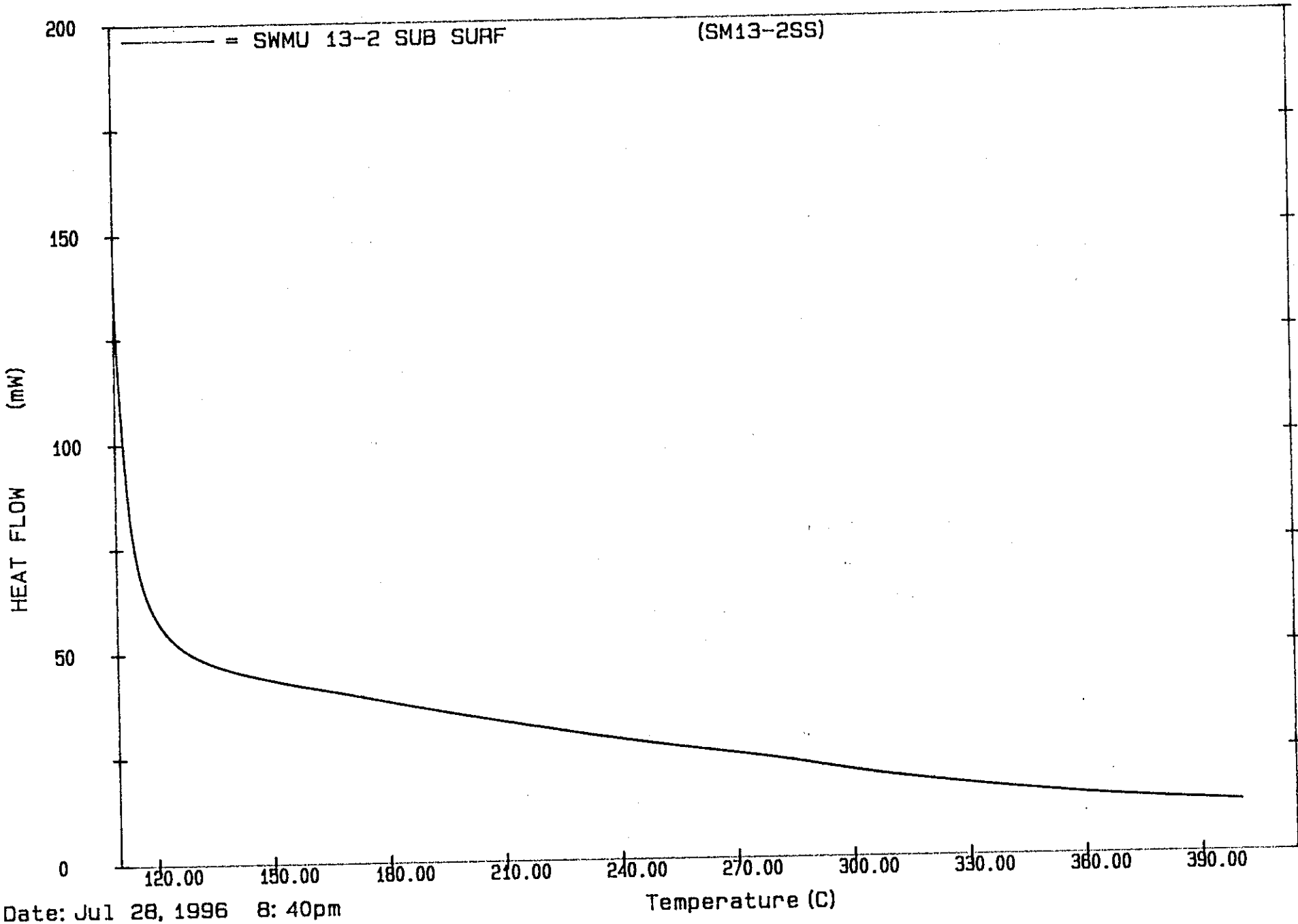
Y= YES

N= N0



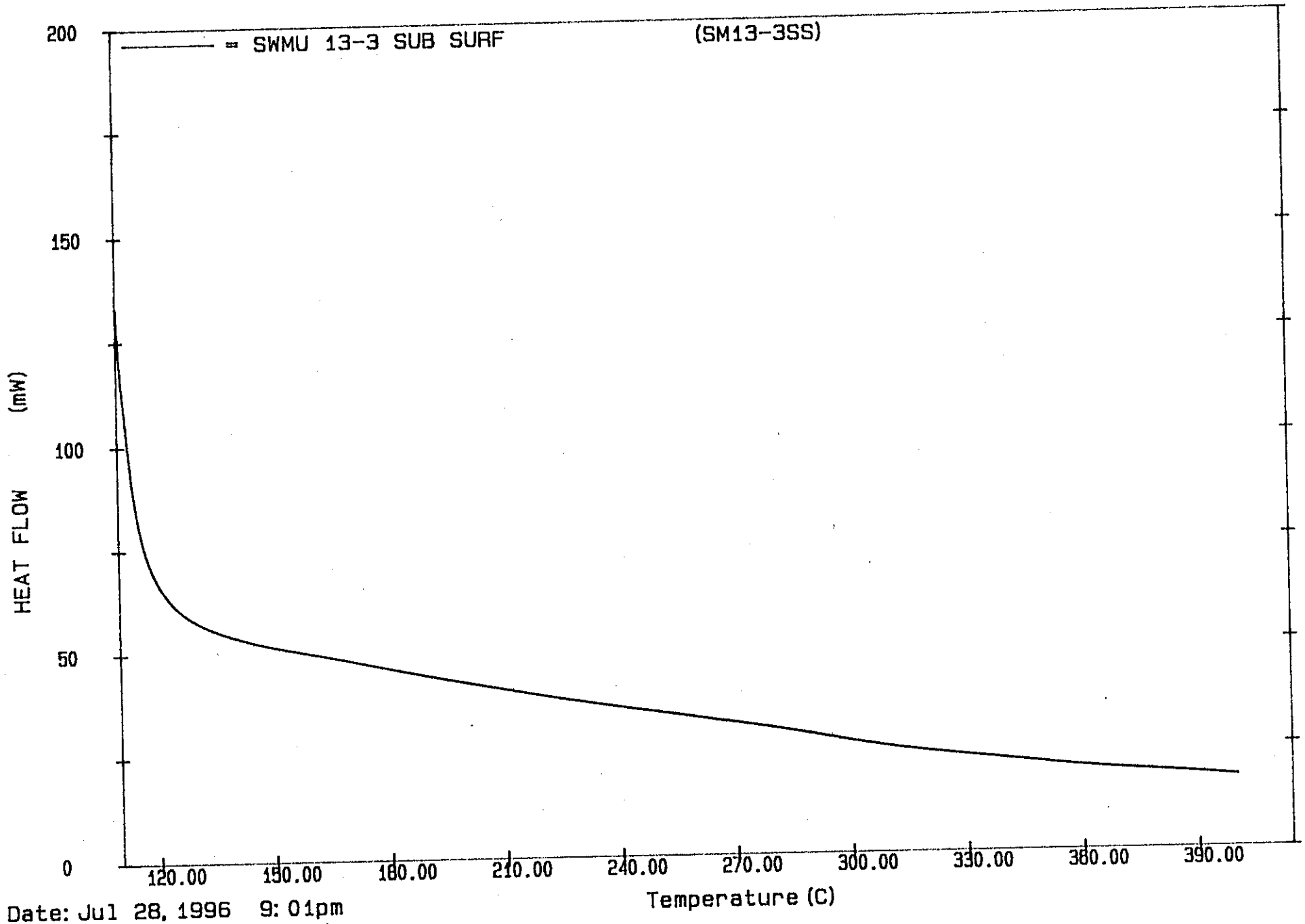
Date: Jul 28, 1996 8: 10pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File SM13-1SS ST 9-3-96

PERKIN-ELMER DSC7



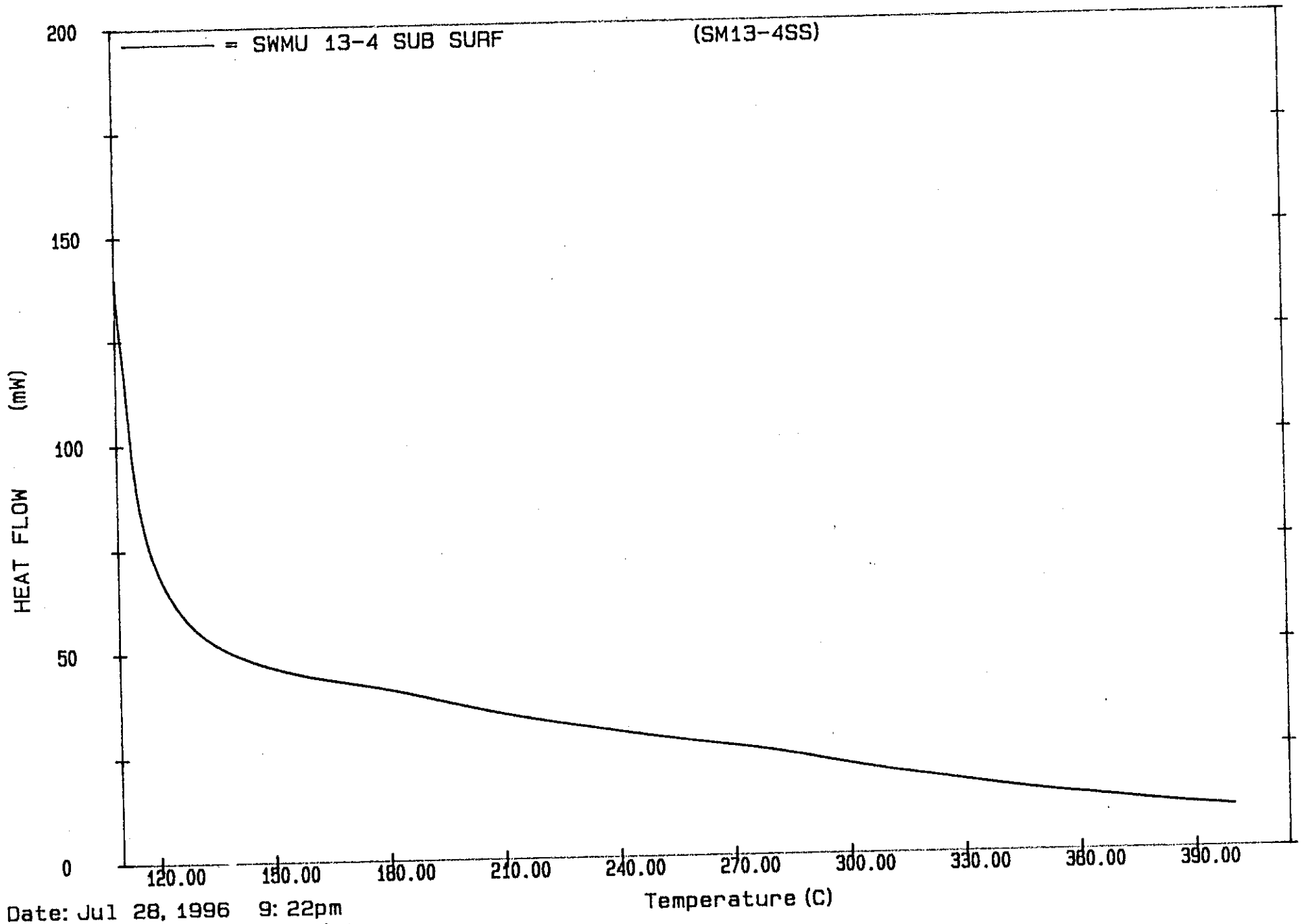
Date: Jul 28, 1996 8: 40pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
Fil : SM13-2SS ST 9-3-96

PE 'IN-ELMER DSC7



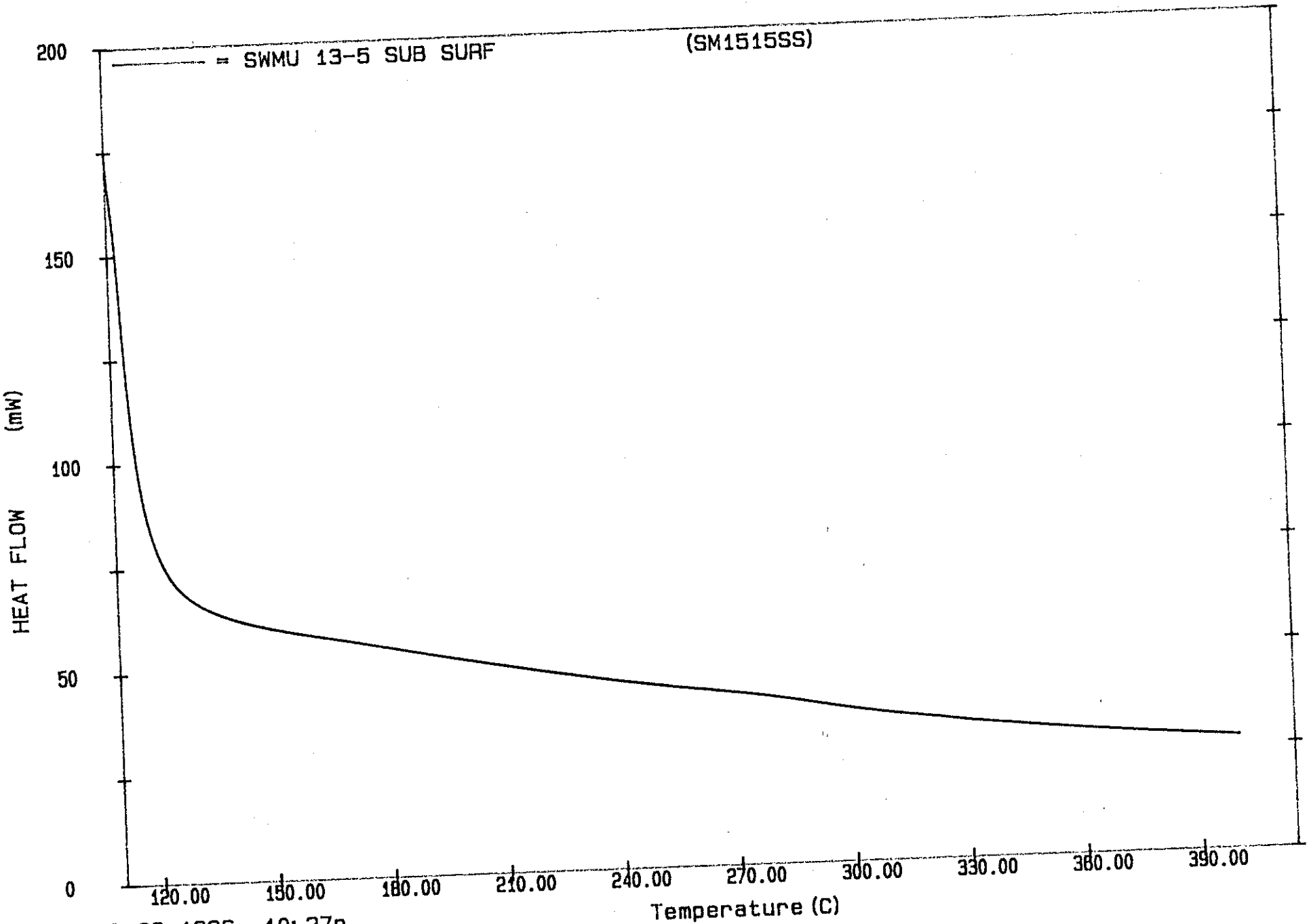
Date: Jul 28, 1996 9:01pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File SM13-3SS ST 9-3-96

PERKIN-ELMER DSC7



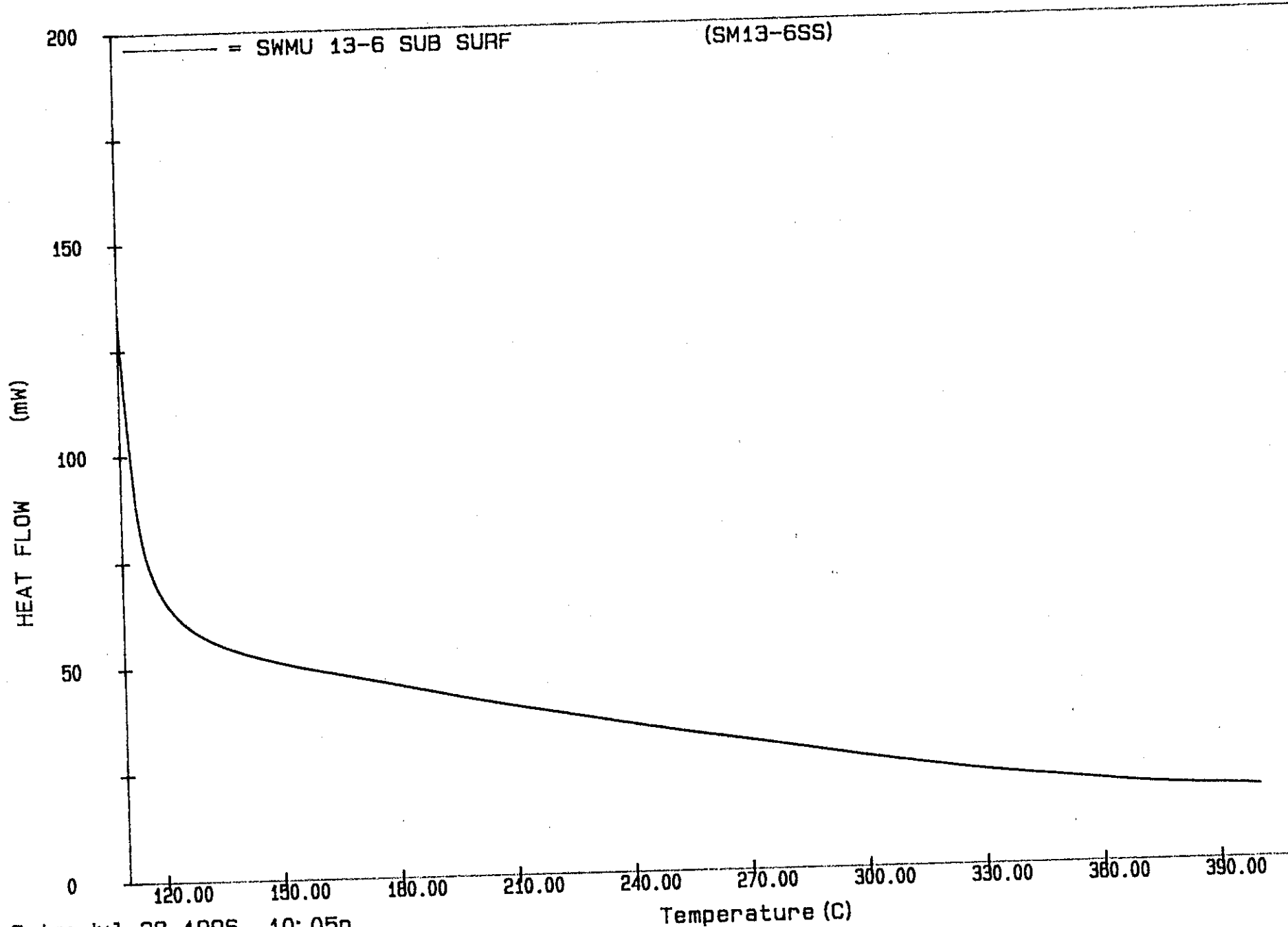
Date: Jul 28, 1996 9: 22pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File M13-4SS 9-3-96

PER TN-ELMER DSC7



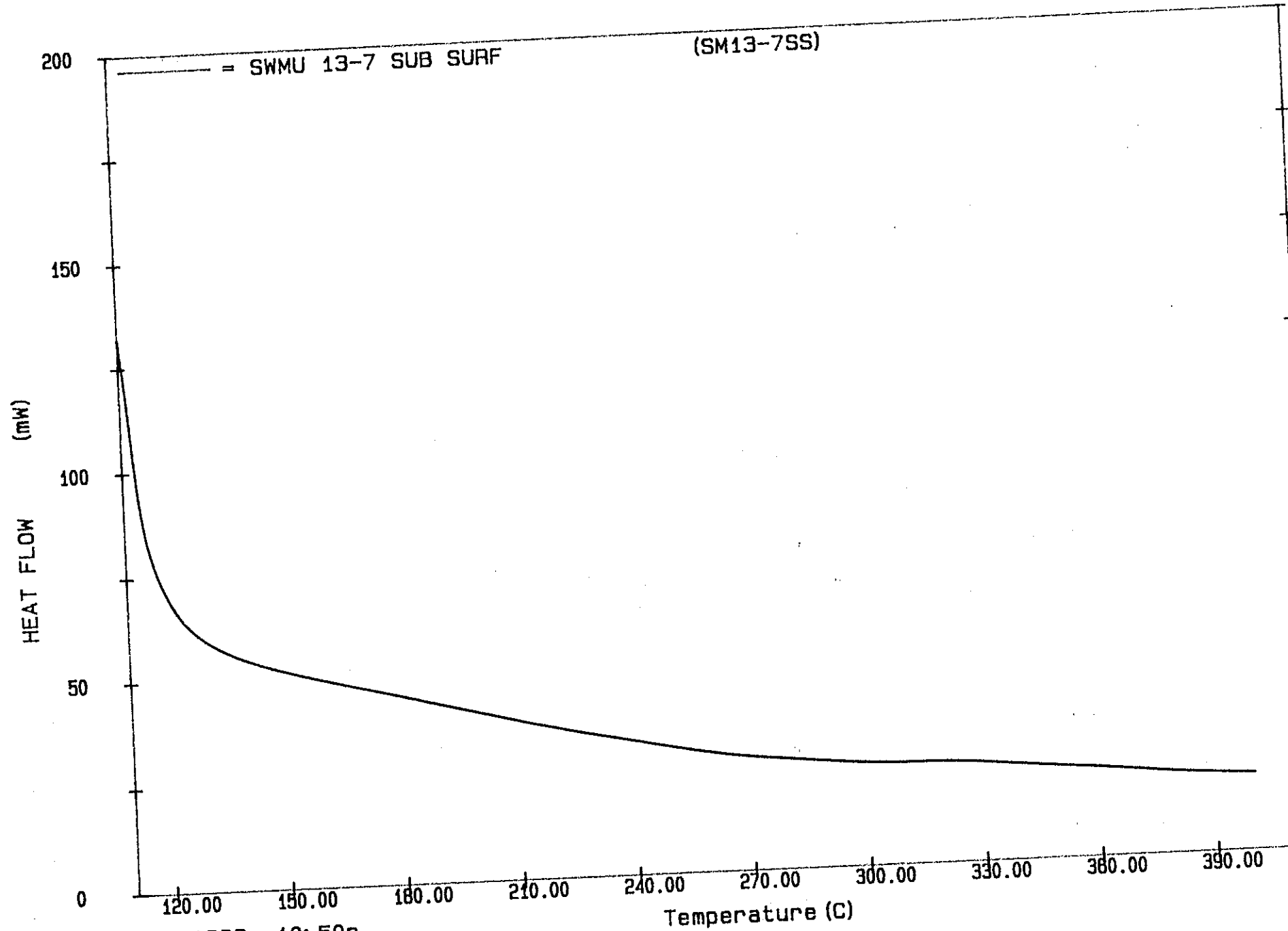
Date: Jul 28, 1996 10:27p
Scanning Rate: 20.0 C/min
Sampl Wt: 0.000 mg Path: C:\PE\
File: SM1515SS ST 9-3-96

PEI IN-ELMER DSC7



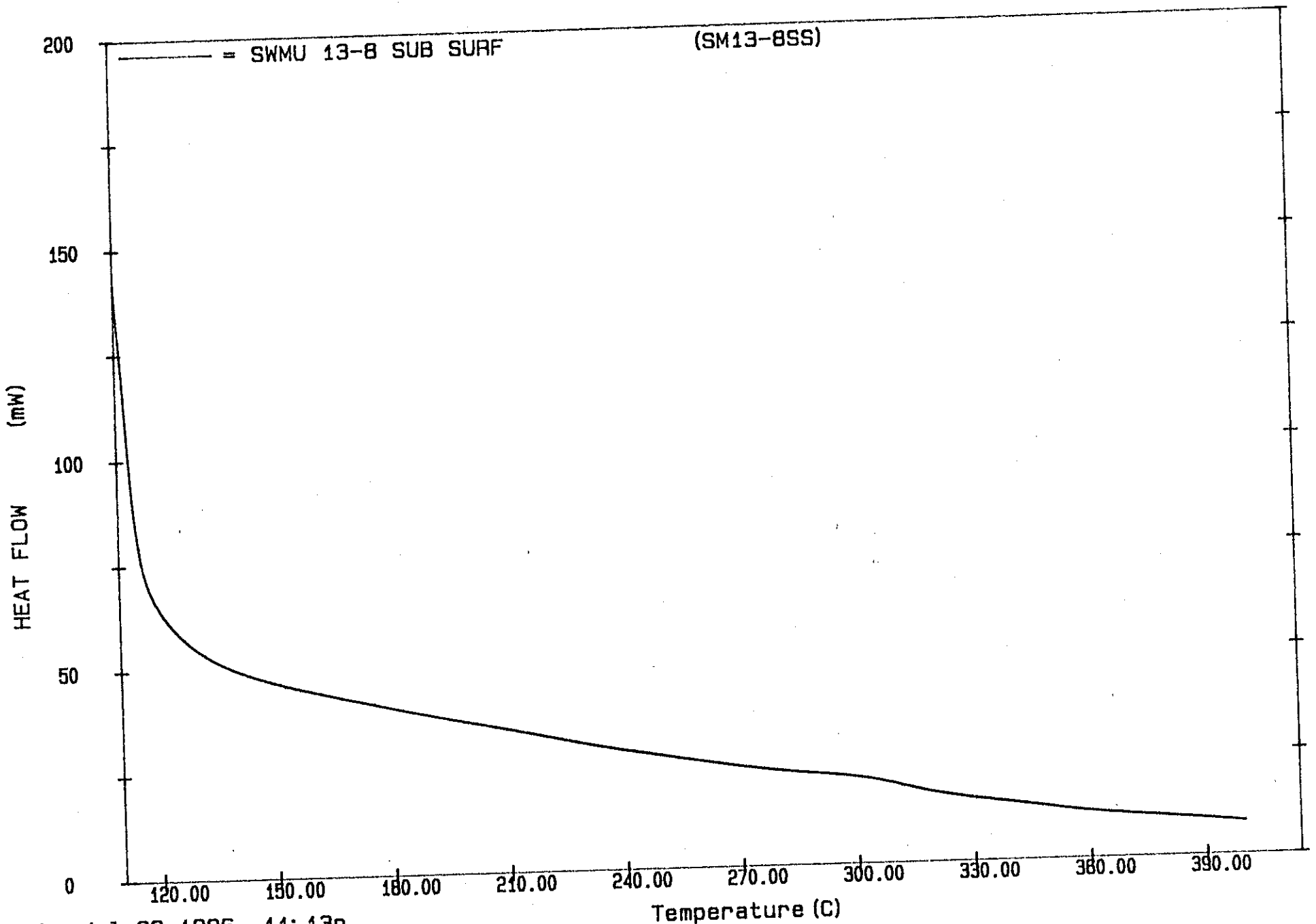
Date: Jul 28, 1996 10:05p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
1: SM13-6SS ST 9-3-96

PERKIN-ELMER DSC7



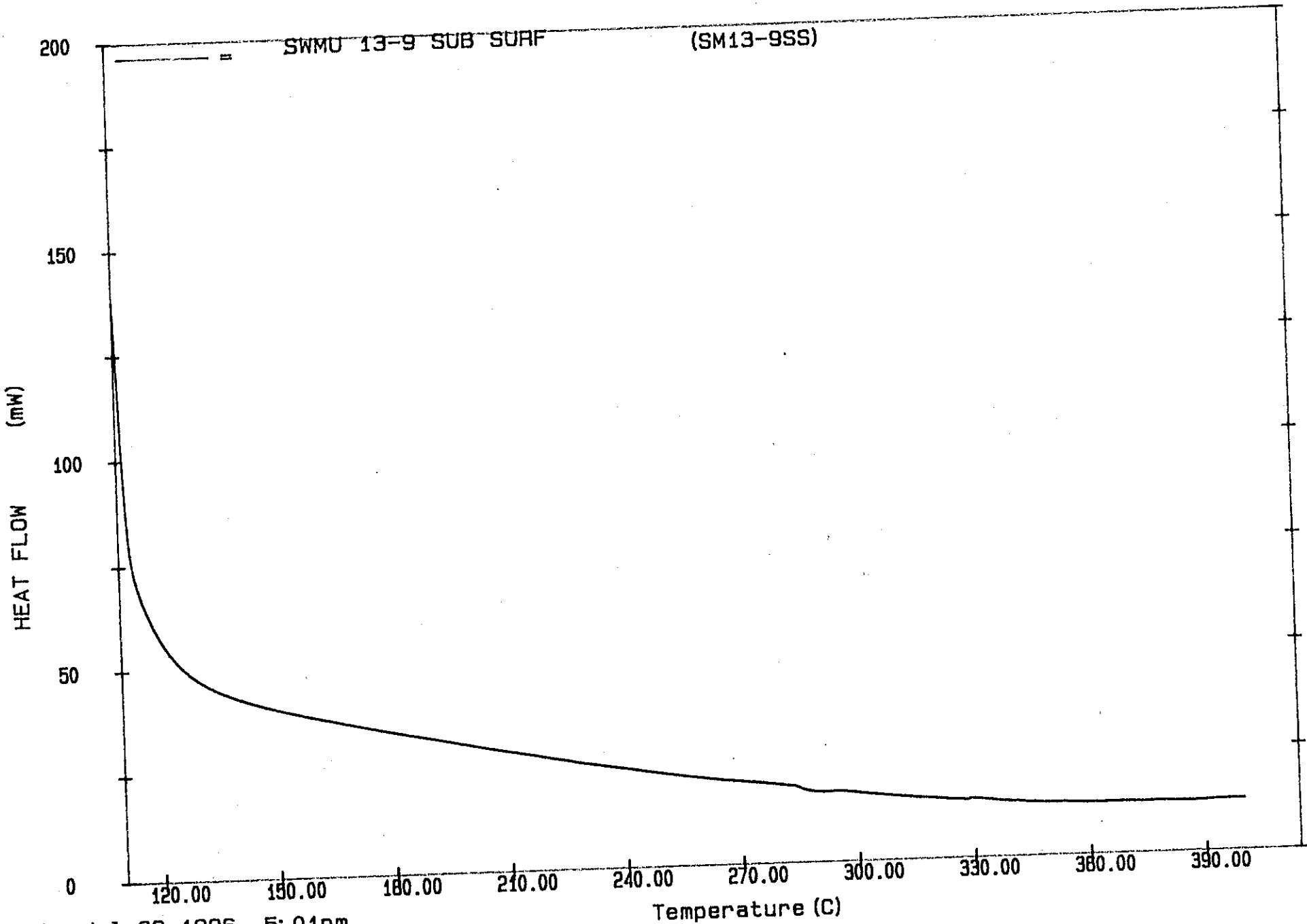
Date: Jul 28, 1996 10:50p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
1: SM13-7SS ST 9-3-96

PERKIN-ELMER DSC7



Date: Jul 28, 1996 11: 13p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File: SM13-8SS ST 9-3-96

PERKIN-ELMER DSC7



Date: Jul 29, 1996 5:01pm
Scanning Rate: 20.0 C/min
Samp Wt: 0.000 mg Path: C:\PE\
File: SM13-9SS

PE IN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/19/96 SAMPLE NO# SS 1

TESTER L/Gow/Cook/B Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/19/96 SAMPLE NO# SS 2

TESTER Alban / Cook / S Hurst

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/19/96 SAMPLE NO# SS 3

TESTER Lagow / Cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/19/94 SAMPLE NO# SS 4

TESTER 4 bar / cook / 8 shift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/19/96 SAMPLE NO# SS 5

TESTER Llow/cook / S Zhyt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/19/96 SAMPLE NO# SS 6

TESTER LIGON/COOK / S Wright

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/19/95 SAMPLE NO# SS 7

TESTER Lilgow/cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/19/96 SAMPLE NO# SS 8

TESTER L/Gow/cook / S Thut

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			
1.	/	1.	/	1.	1.	Neg
2.	/	2.	/	2.	2.	
3.	/	3.	/	3.	3.	
4.	/	4.	/	4.	4.	
5.	/	5.	/	5.	5.	
6.	/	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 13 DATE 8/19/96 SAMPLE NO# SS 9

TESTER [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	Neg
2.	✓	2.	✓	2.	
3.	✓	3.	✓	3.	
4.	✓	4.	✓	4.	
5.	✓	5.	✓	5.	
6.	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

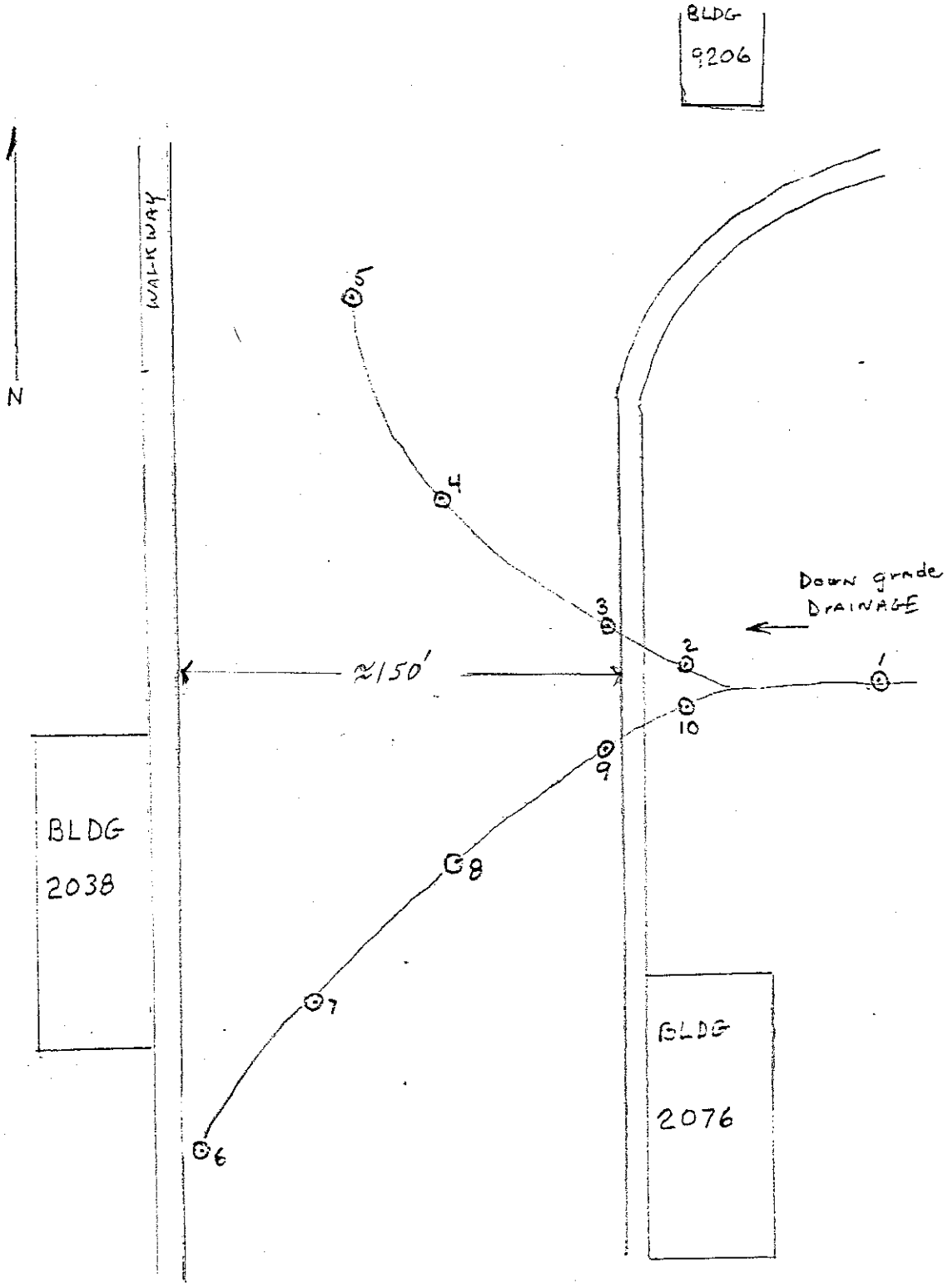
S--SURFACE
SS--SUBSURFACE

APPENDIX G

SWMU 29 - DRAINAGE DITCH (DOWNGRADE OF BUILDING 2049)

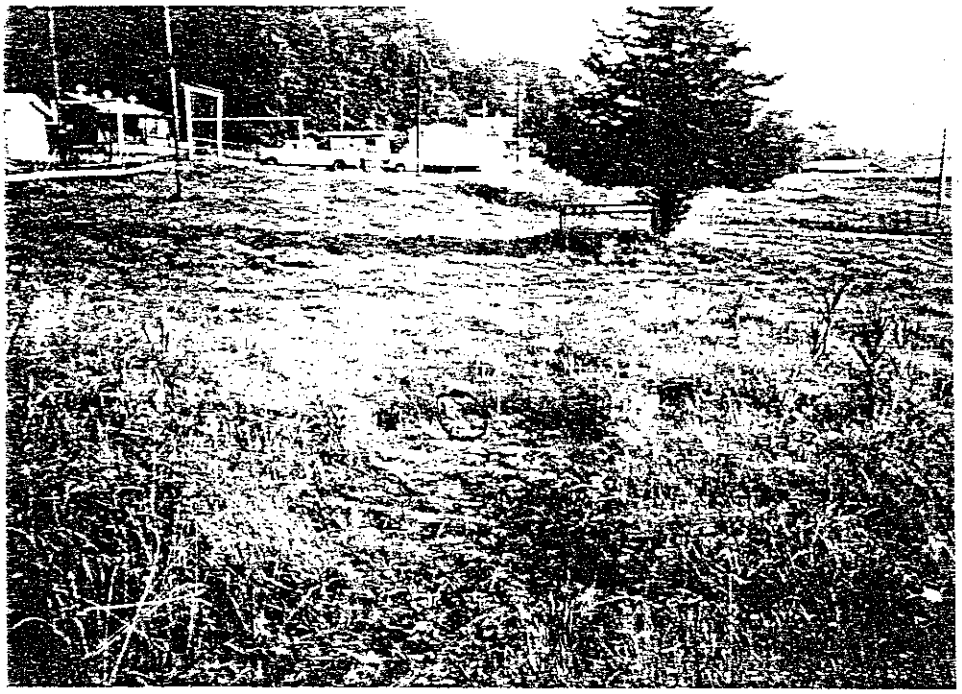
SWMU 29

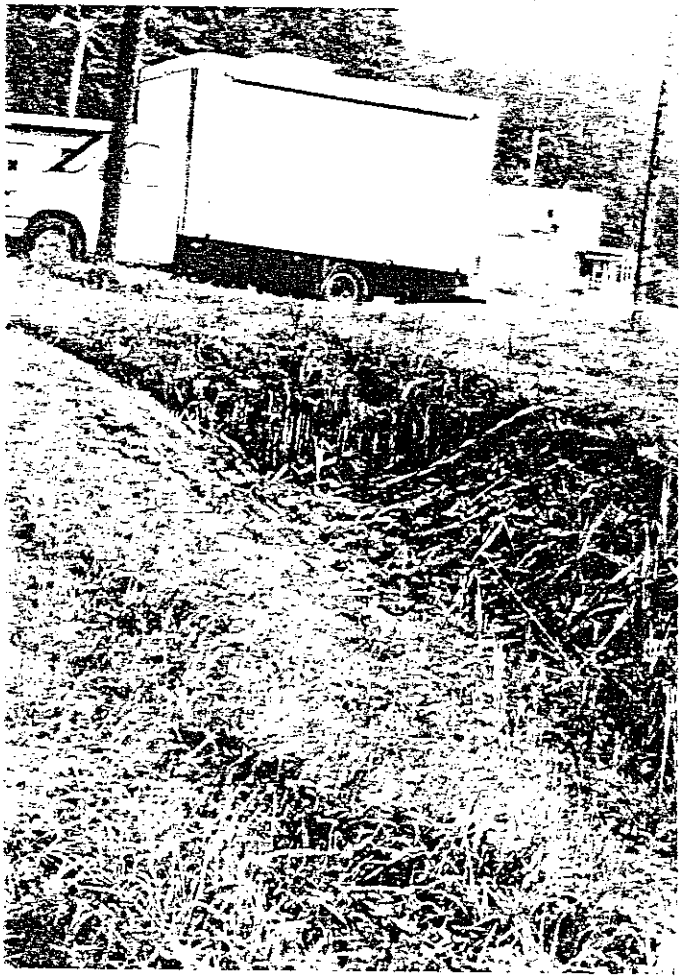
DRAINAGE DITCHES DOWNGRADE OF BLDG 2049 RUNNING WEST TO EAST.
TOOK 10 SURFACE SAMPLES (0-2") AND 10 SUBSURFACE SAMPLES (2-8").



SUMMARY OF ACTIVITIES FOR SWMU 29

The implementation of the ICM work plan for SWMU 29 consisted of taking surface samples (0-2") and subsurface (2-8") samples at 10 locations (see map). Samples were collected from two drainage ditches downgrade of facility Building 2049. Calorimeter tests on surface samples were composites while subsurface samples were run individually. All samples tested negative for explosives using all three test methods.







UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-15-96	SM4 29 S	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

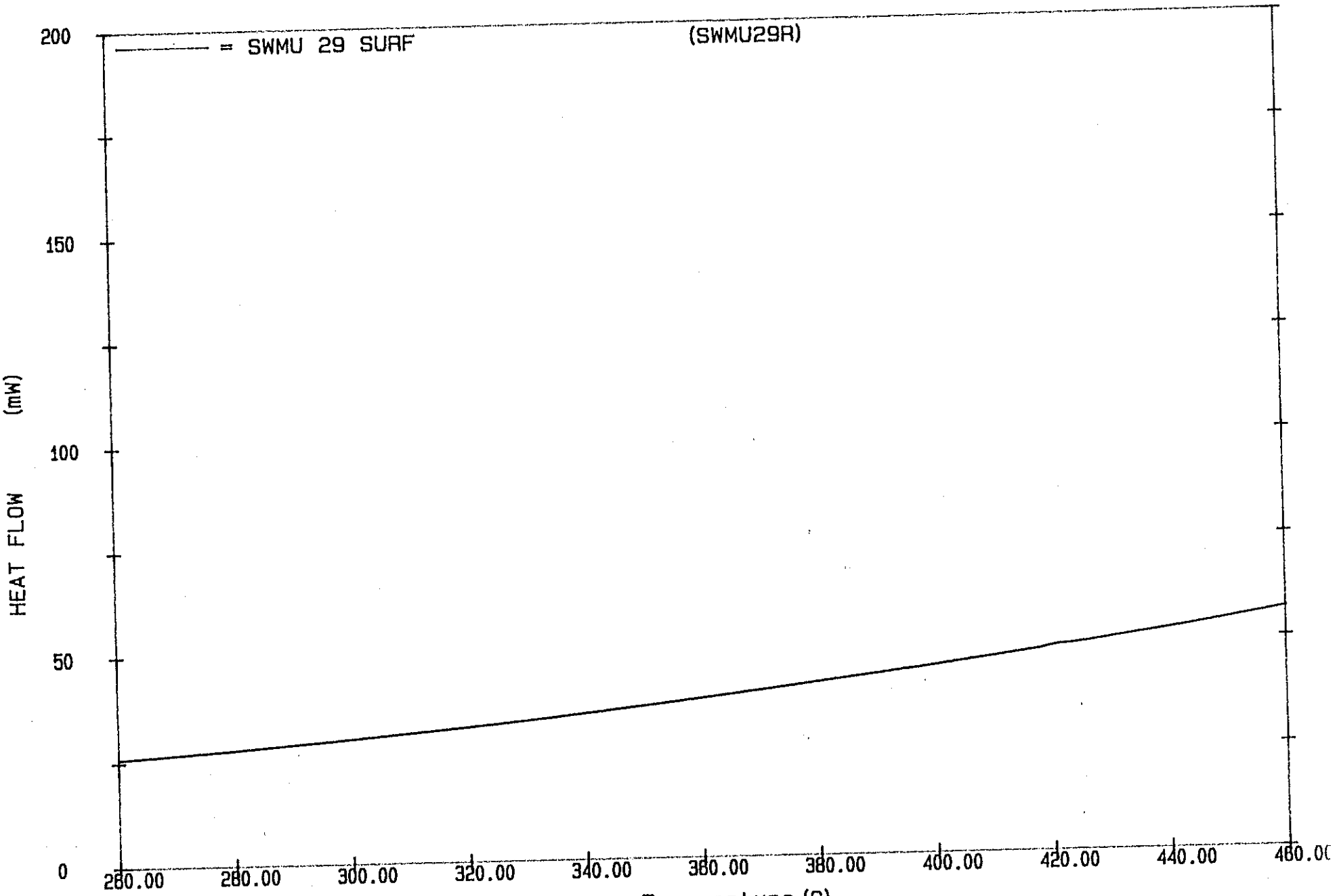
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

N= N0



Date: Jul 09, 1996 8:42pm
Scanning Rate: 20.0 C/min
Sample Wt: 2.500 mg Path: UXB\
F1 · SWMU29R ST

TYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/13/94 SAMPLE NO# 51

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	X	1.	1.	Comp Notebook
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER H. THRIFT / S. Flint

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 08/13/94 SAMPLE NO# S 2

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	X	1.	1.	
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER H. THRIFT / S. Hunt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

~~S~~--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/13/94 SAMPLE NO# 53

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp neg
1.	✓	1.	X	1.	1.	
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER H. THRIFT / Smart

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/13/96 SAMPLE NO# S4

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Comp Neg
1.	✓	1.	X	1.	1.	
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER H. THRIFT / S. Flint

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/13/99 SAMPLE NO# 55

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			
1.	✓	1.	X	1.	1.	Corp Neg
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER H. THRIFT / S. Shuff

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/13/96 SAMPLE NO# 56

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
Yes	No	Yes	No		
1.	✓	1.	X	1.	1.
2.	✓	2.	X	2.	2.
3.	✓	3.	X	3.	3.
4.	✓	4.	X	4.	4.
5.	✓	5.	X	5.	5.
6.	✓	6.	X	6.	6.

CALORIMETRIC TEST:
Results
Comp Neg

TESTER H. THRIFT / S-Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU ~~29~~ 29 DATE 8/13/94 SAMPLE NO# 57

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Key
1.	✓	1.	X	1.	1.	
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER H. THRIFT / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/13/96 SAMPLE NO# S 8

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Comp Neg
1.	✓	1.	X	1.	1.	
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER W. THRIFT / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/13/94 SAMPLE NO# 59

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Comp Neg
1.	✓	1.	X	1.	1.	
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER U. THRIFT / S. Hunt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/13/96 SAMPLE NO# 5 10

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.		1.	X	1.	1.	Comp May
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER H. THRIFT / J. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)--SURFACE
SS--SUBSURFACE

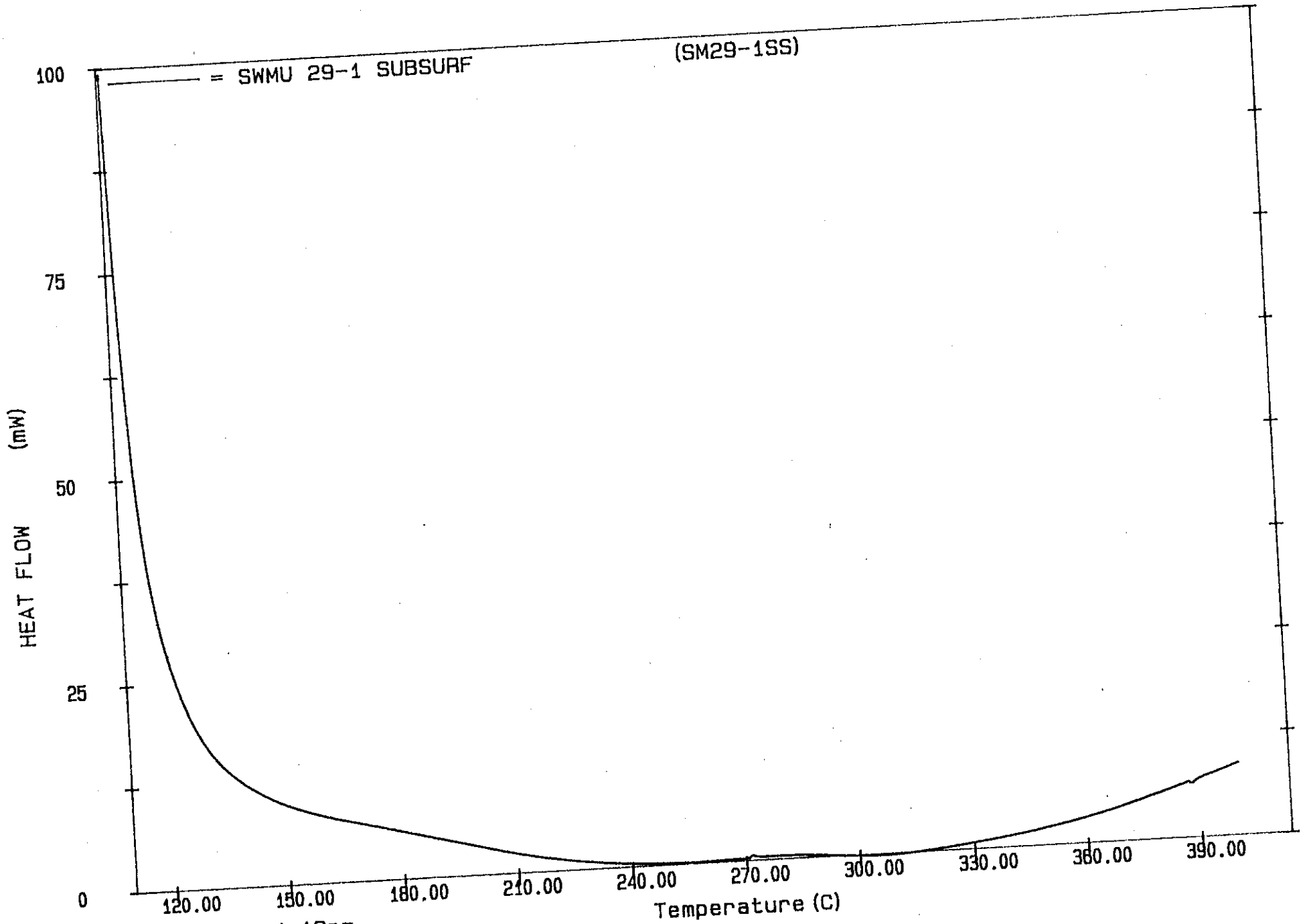
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-29-96	Swmy							
	29 55 1	N	N	N	N	N	N	N
	2	N	N	N	N	N	N	N
	3	N	N	N	N	N	N	N
	4	N	N	N	N	N	N	N
8-19-96	5	N	N	N	N	N	N	N
8-29-96	6	N	N	N	N	N	N	N
	7	N	N	N	N	N	N	N
8-30-96	8	N	N	N	N	N	N	N
	9	N	N	N	N	N	N	N

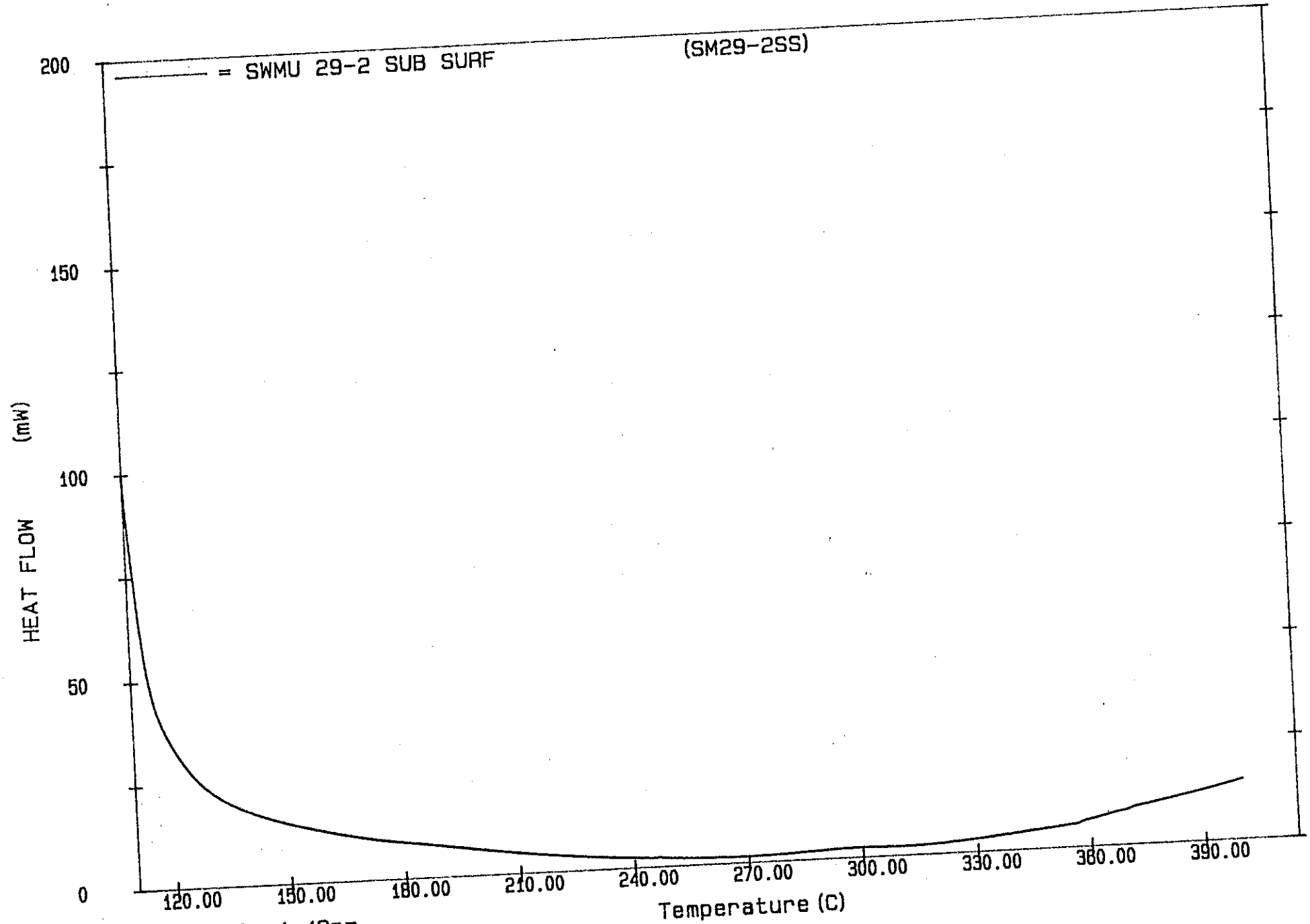
LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 23, 1996 4: 19pm
Scanning Rate: 20.0 C/min
Samp t: 0.000 mg Path: C: \PE\
File .. SM29-1SS ST 8-29-96

PE .. IN-ELMER DSC7



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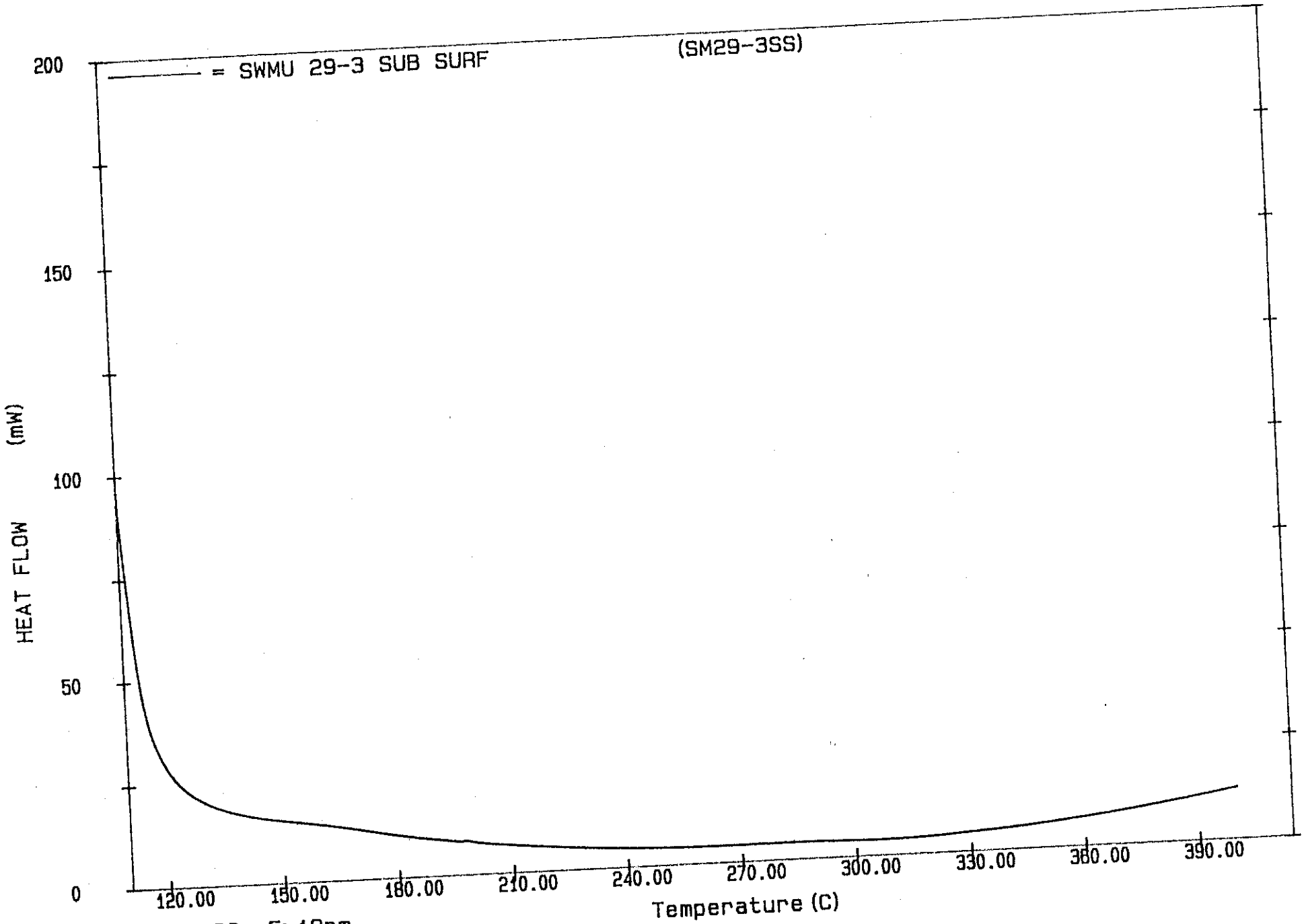
Sample Wt: 0.000 mg Path: C: \PE\
File: SM29-2SS ST 8-29-96

PERKIN-ELMER DSC7



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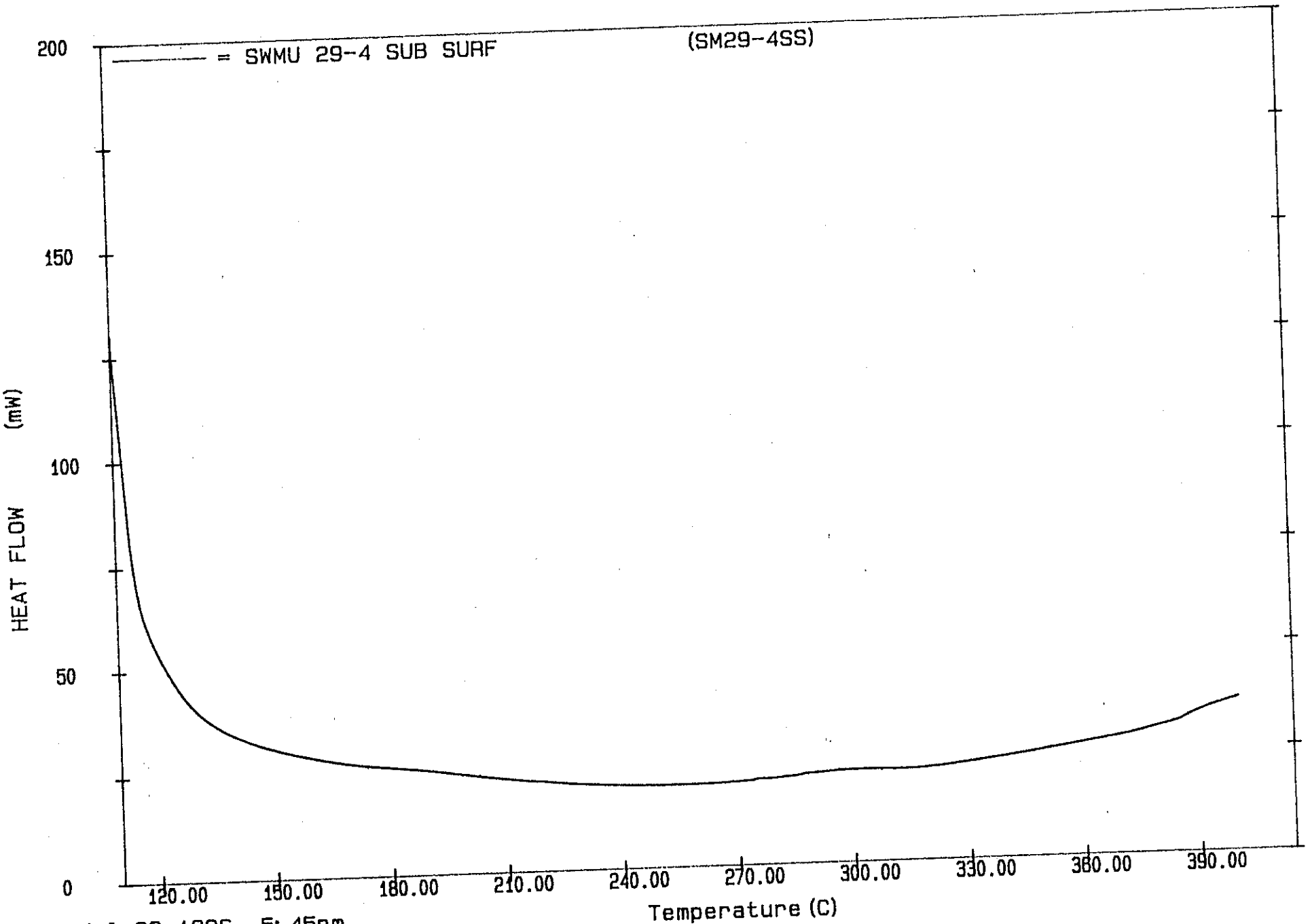
Sample Wt: 0.000 mg Path: C: \PE\
Fil SM29-3SS ST 8-29-96

PERKIN-ELMER DSC7



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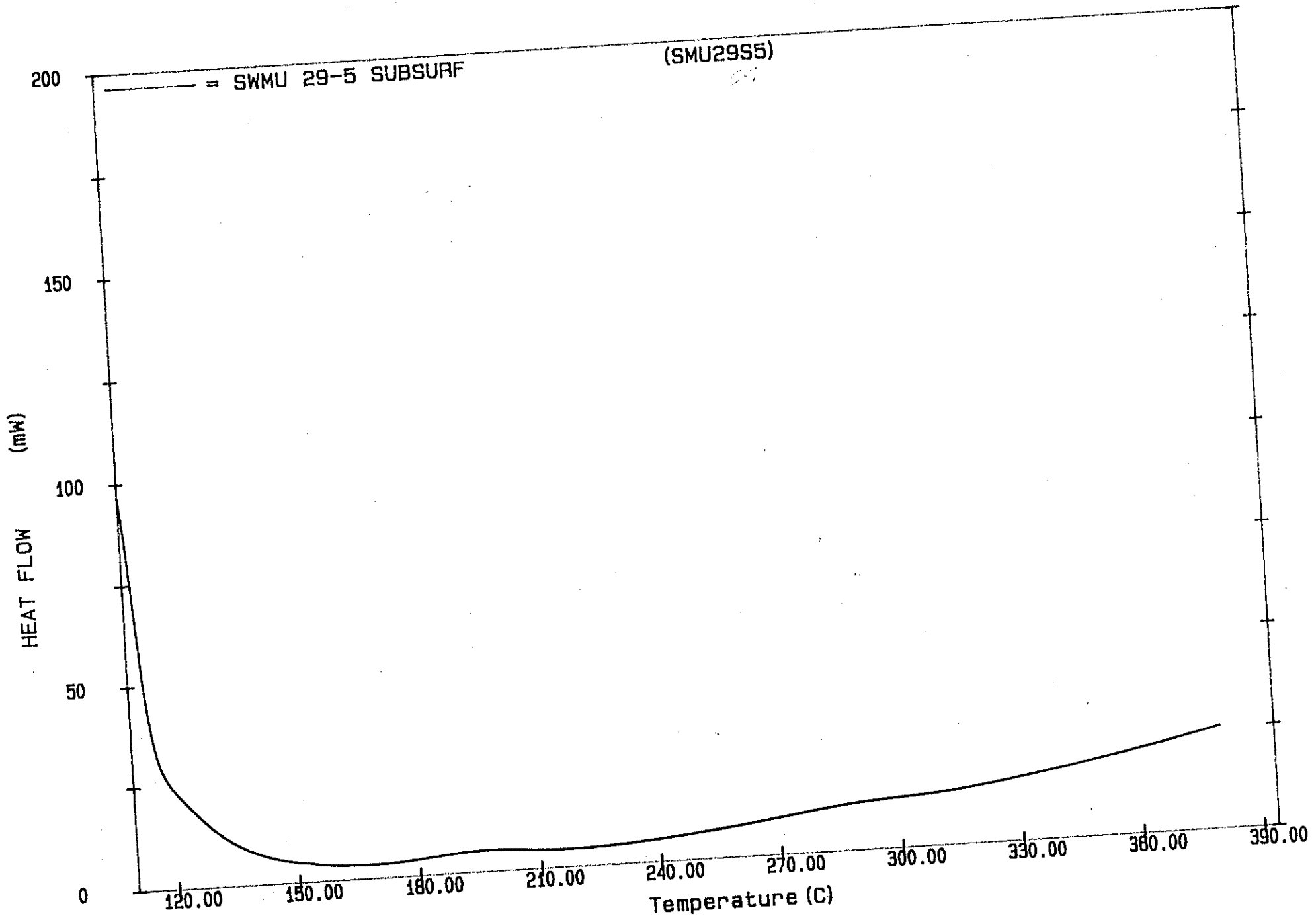
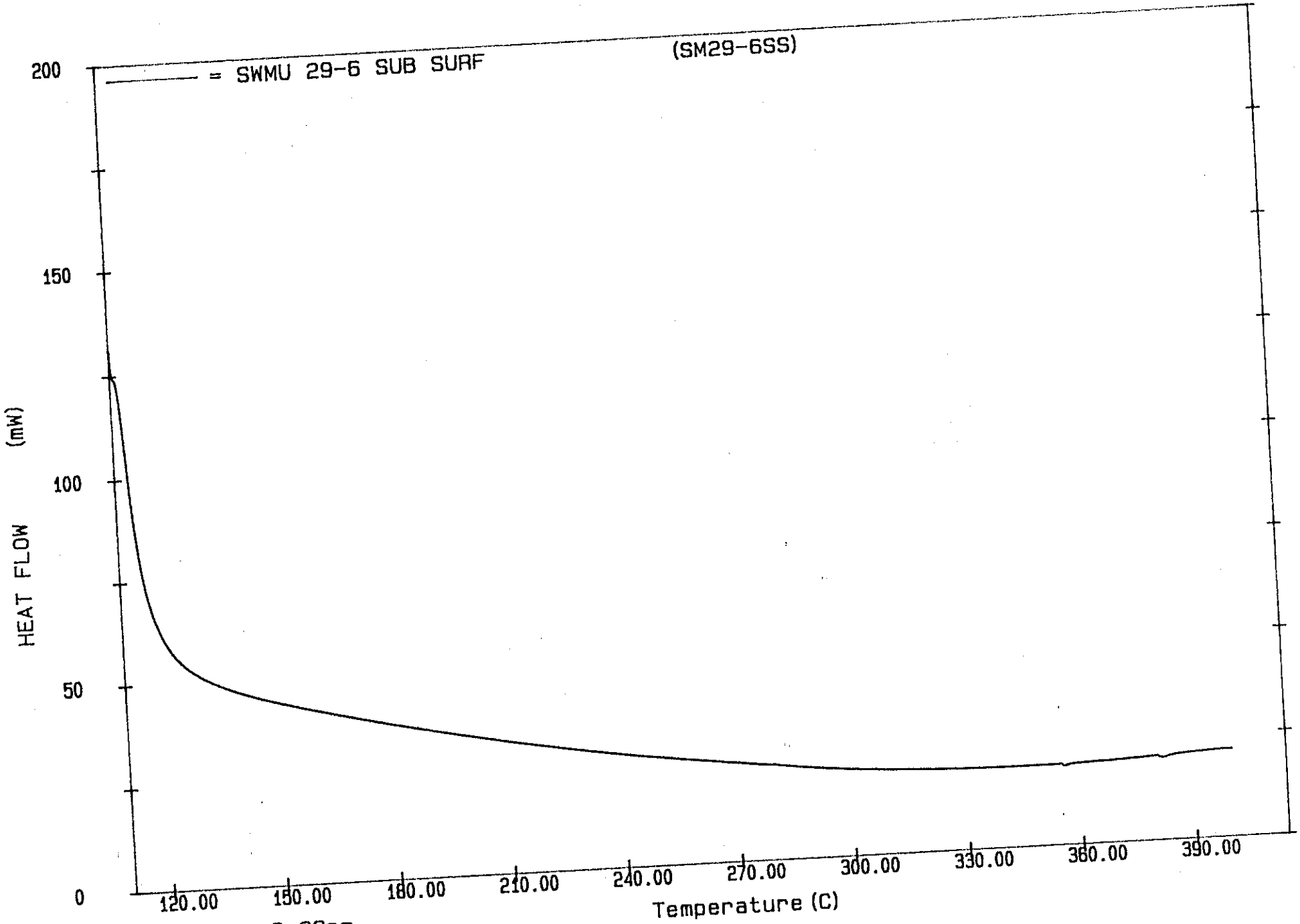
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
Fi[illegible]SM29-4SS ST 8-29-96

PE[illegible] IN-ELMER DSC7



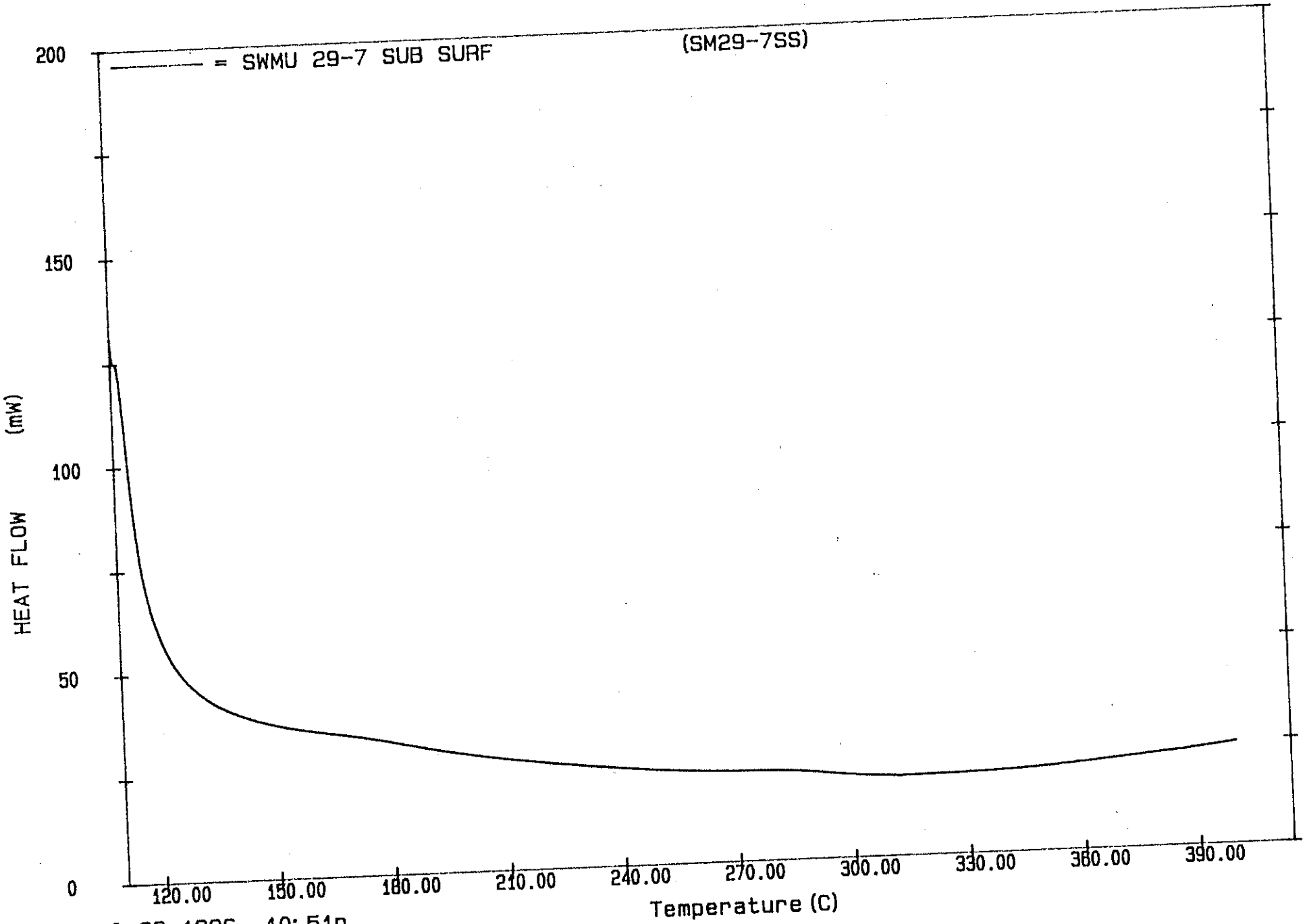
Date: Jul 13, 1996 5: 35pm
Scanning Rate: 20.0 C/min
Sam[illegible] Wt: 0.000 mg Path: UXB\
Fi[illegible] SMU29S5 ST 8-19-96

[illegible]YNO NOBEL



Date: Jul 23, 1996 8:29pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
1: SM29-6SS ST 8-29-96

PERKIN-ELMER DSC7



Date: Jul 23, 1996 10:51p
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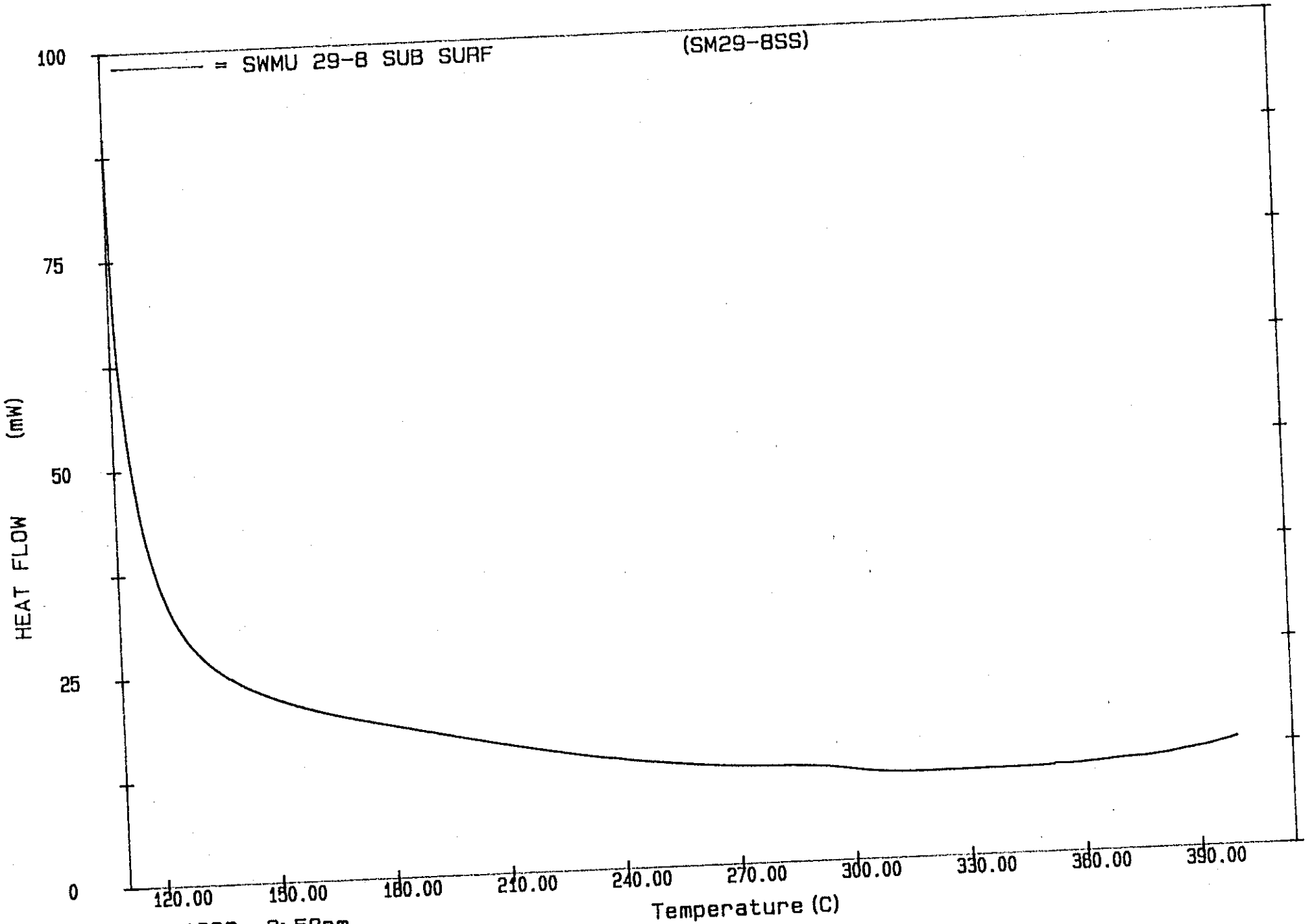
Sample Wt: 0.000 mg Path: C:\PE\
File M29-7SS ST 8-29-96

PERKIN-ELMER DSC7



Date: Jul 24, 1996 3:58pm
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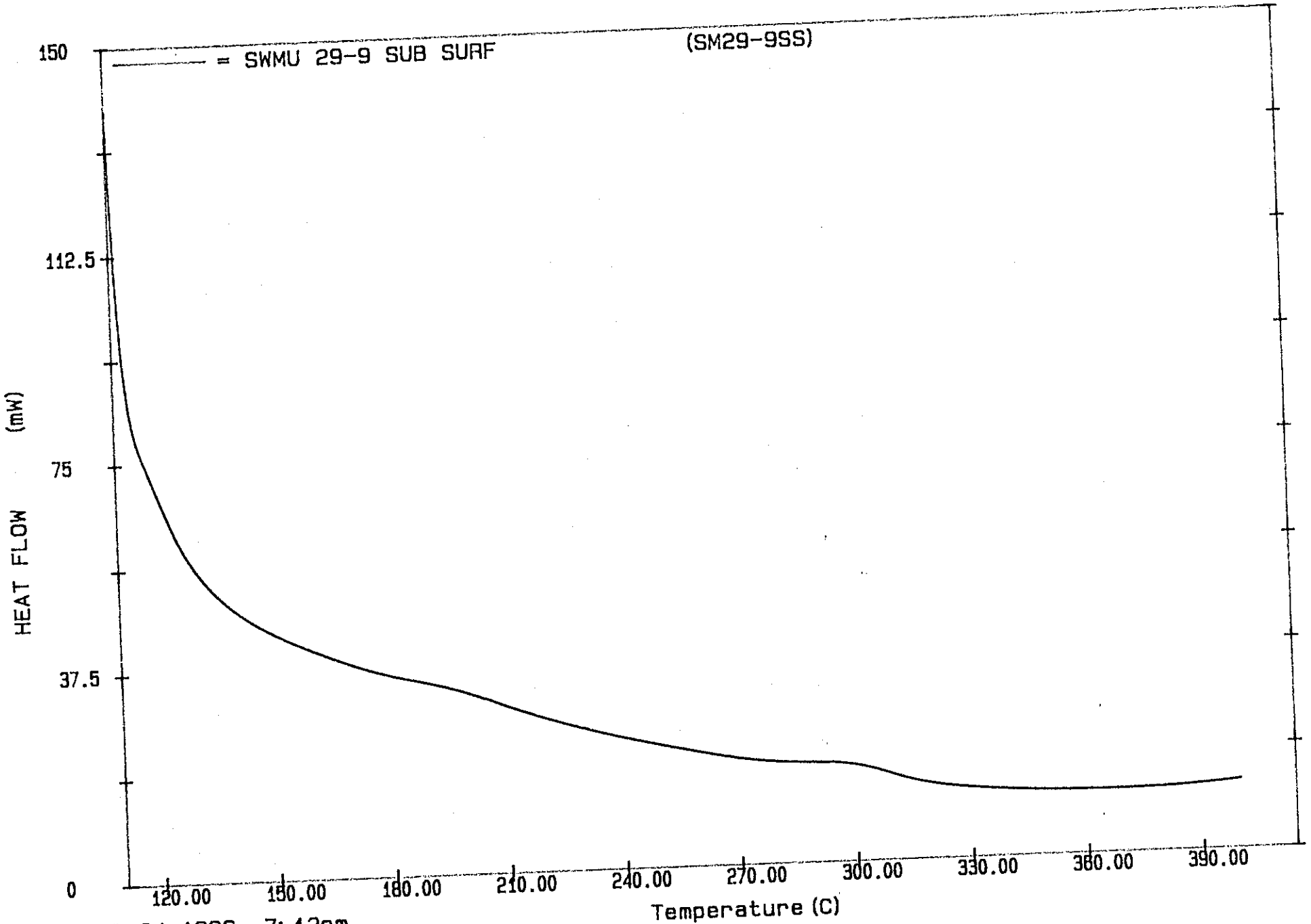
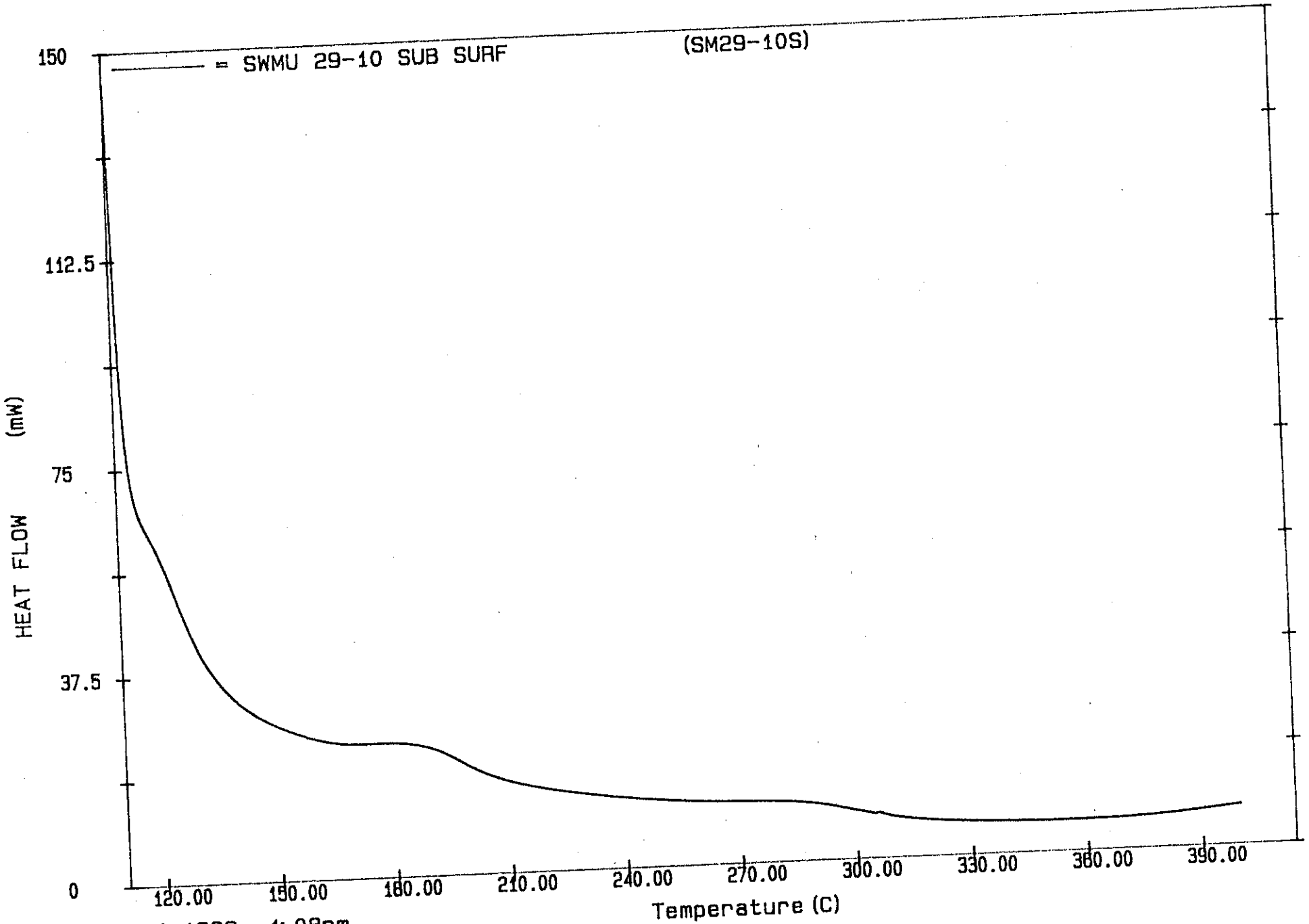
Sample Wt: 0.000 mg Path: C:\PE\
File: SM29-8SS ST 8-30-96

PERKIN-ELMER DSC7



Date: Jul 24, 1996 7:12pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM29-9SS ST 8-30-96

PERKIN-ELMER DSC7



Date: Jul 28, 1996 4:08pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM29-10S ST 9-3-96

PE IN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 5/19/95 SAMPLE NO# SS 1

TESTER Glover / Cook / S Hart

FRICTION TEST:

	Reactive Yes	No
1.		X
2.		X
3.		X
4.		X
5.		X
6.		X

IMPACT TEST: DEPTH

	Reactive Yes	No	
1.		X	1.
2.		X	2.
3.		X	3.
4.		X	4.
5.		X	5.
6.		X	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/19/96 SAMPLE NO# SS 2

TESTER L/Gow/cook / A Shrupt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1. Neg
2.	X	2.	X	2.	2.
3.	X	3.	X	3.	3.
4.	X	4.	X	4.	4.
5.	X	5.	X	5.	5.
6.	X	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/14/96 SAMPLE NO# SS 3

TESTER L/Gow / Cook / S Hurst

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X		/	1.	1.	Neg
2.		X		/	2.	2.	
3.		X		/	3.	3.	
4.		X		/	4.	4.	
5.		X		/	5.	5.	
6.		X		/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/19/96 SAMPLE NO# SS 4

TESTER Lilgow / Cook / S Christ

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	/	1.	/	1.	Neg
2.	/	2.	/	2.	
3.	/	3.	/	3.	
4.	/	4.	/	4.	
5.	/	5.	/	5.	
6.	/	6.	/	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 08/16/96 SAMPLE NO# SS 5

TESTER Ligon / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1. Neg
2.	X	2.	✓	2.	2.
3.	X	3.	✓	3.	3.
4.	X	4.	✓	4.	4.
5.	X	5.	✓	5.	5.
6.	X	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/19/96 SAMPLE NO# SS 6

TESTER L/Gow/Cook/S Wright

FRICTION TEST:

	Reactive Yes	Reactive No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

IMPACT TEST:

	Reactive Yes	Reactive No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/19/96 SAMPLE NO# SS 7

TESTER Brown/Cook/S Hunt

FRICTION TEST: IMPACT TEST: DEPTH CALORIMETRIC TEST:

	Reactive Yes	Reactive No			Results
1.		/	1.	1.	Neg
2.		/	2.	2.	
3.		/	3.	3.	
4.		/	4.	4.	
5.		/	5.	5.	
6.		/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/19/96 SAMPLE NO# SS 8

TESTER Allen / Cook / D Hunt

FRICTION TEST:

	Reactive Yes	No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

IMPACT TEST:

	Reactive Yes	No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

NT

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/19/96 SAMPLE NO# SS 9

TESTER Howard / Mark / Scott

FRICTION TEST: IMPACT TEST: DEPTH CALORIMETRIC TEST:

Results

	Reactive Yes	Reactive No		
1.		/	1.	1.
2.		/	2.	2.
3.		/	3.	3.
4.		/	4.	4.
5.		/	5.	5.
6.		/	6.	6.

	Reactive Yes	Reactive No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

NAG

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 29 DATE 8/19/96 SAMPLE NO# SS 10

TESTER L/ Gow / cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	/	1.	/	1.	1. Neg
2.	/	2.	/	2.	2.
3.	/	3.	/	3.	3.
4.	/	4.	/	4.	4.
5.	/	5.	/	5.	5.
6.	/	6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

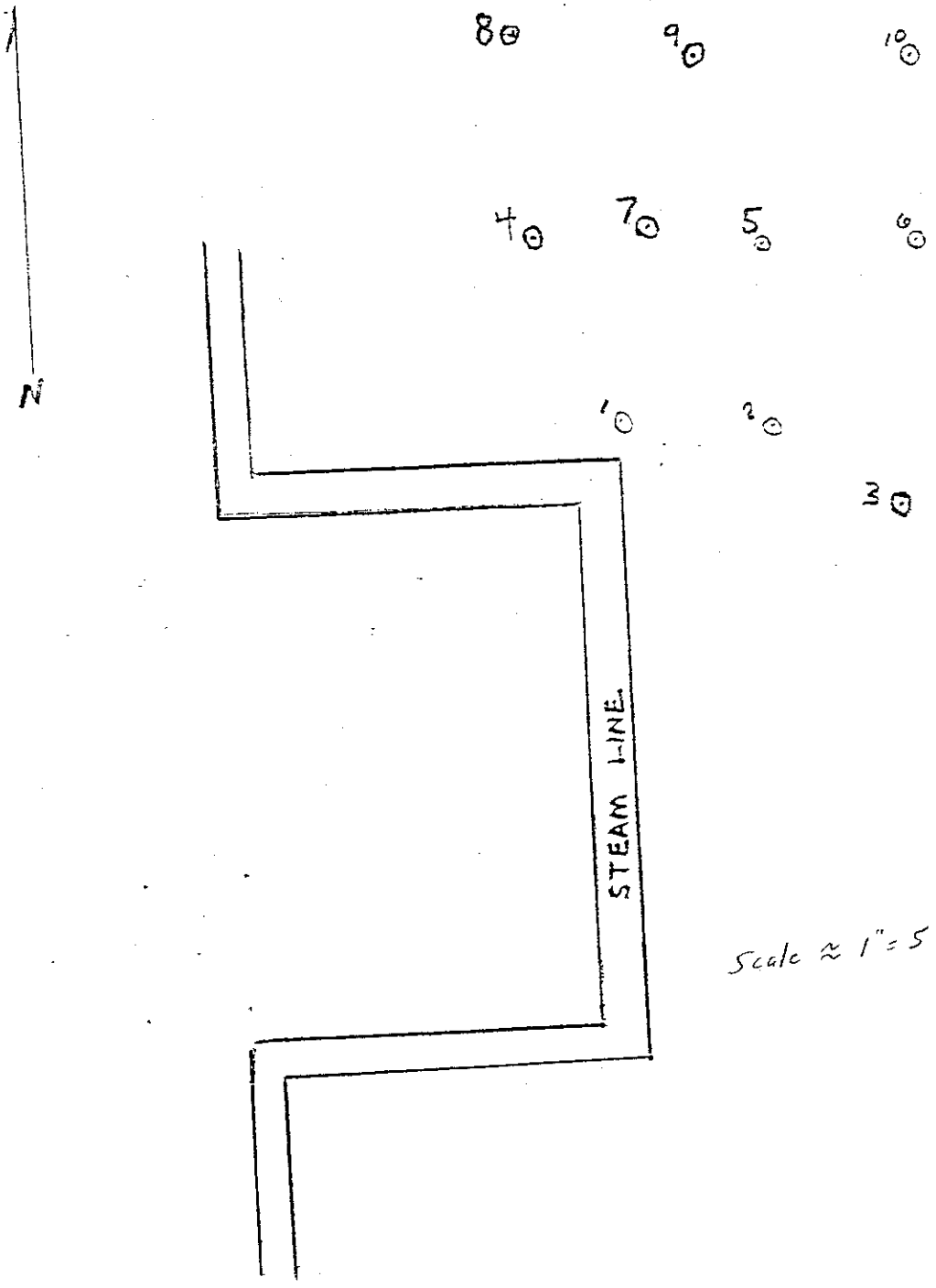
S--SURFACE
SS--SUBSURFACE

APPENDIX H

SWMU 33 - MERCURY FULMINATE TANKS AREA

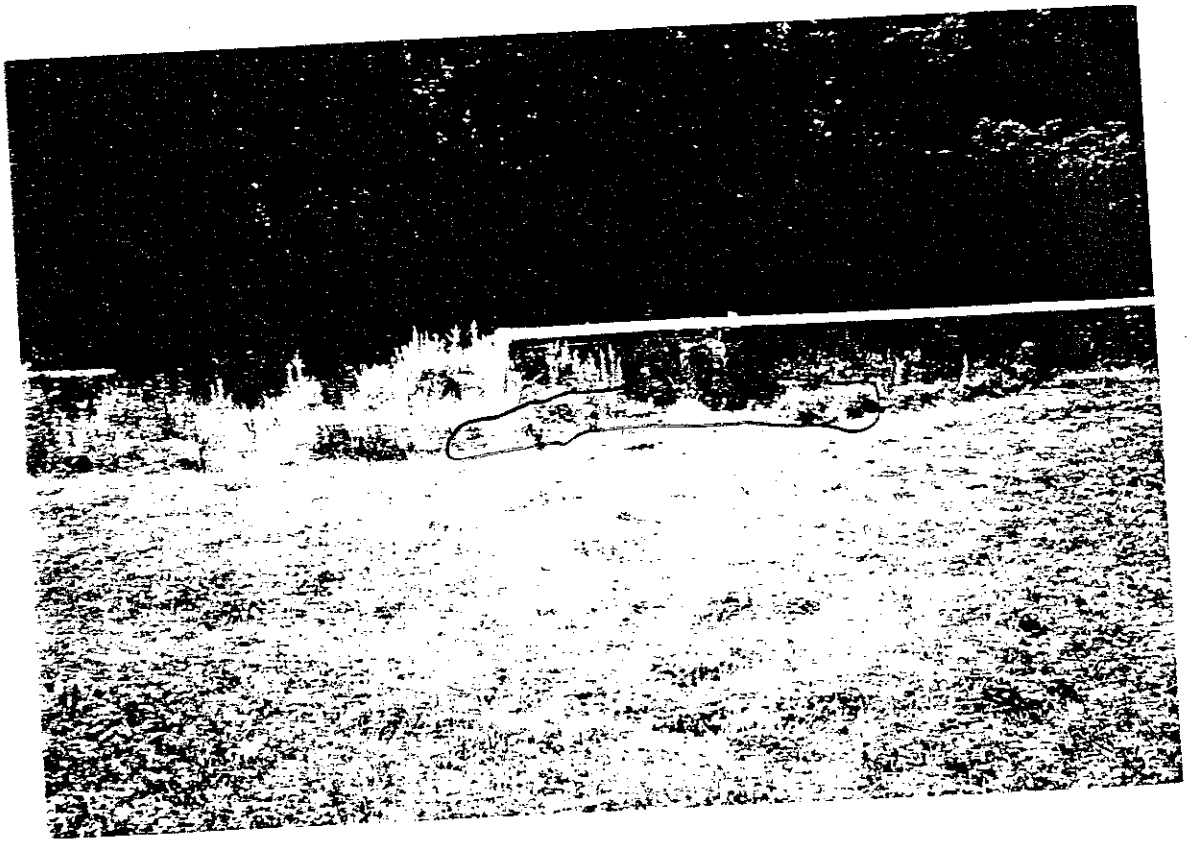
SWMU 33

MERCURY FULMINATE TANKS AREA ONCE CONSISTING OF TWO 7' BY 4' INGROUND WOODEN TANKS. TOOK 6 SURFACE SAMPLES (0-2") AND 10 SUBSURFACE SAMPLES (2-8").



SUMMARY OF ACTIVITIES FOR SWMU 33

The implementation of the ICM work plan for SWMU 33 consisted of taking six surface (0-2") and 10 subsurface (2-8") samples (see map). Samples were collected from an area formerly occupied by two 7' by 4' in-ground, wooden, Mercury fulminate tanks. On the basis of negative results from the first six samples for friction and impact, samples 7-10 were taken at subsurface depth only. If explosives were present at this SWMU, they were deemed more likely to be found below the surface and less likely to be desensitized by the elements. All samples tested negative for explosives using all three test methods. Both surface and subsurface samples were run as composites on the calorimeter.



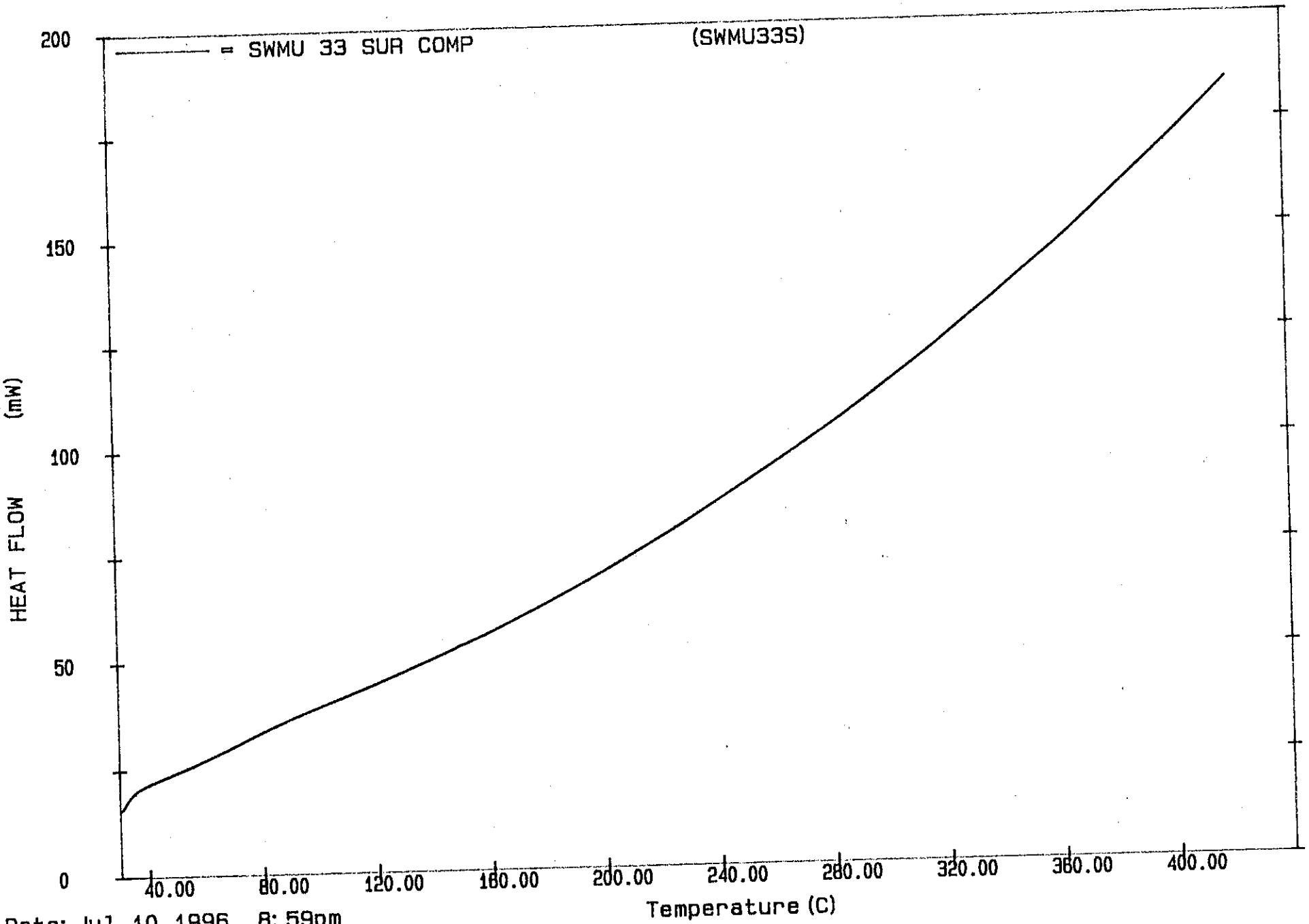
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-16-96	Dummy335	N	"	"	"	"	"	"

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 10, 1996 8:59pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File MU33S ST 8-16-96

VO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU ~~#~~ 33 DATE 8/13/96 SAMPLE NO# S1

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓		✓	1.	1.	Comp Neg
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

TESTER H. THRIFT / L. SOUTH

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 4133 DATE 8/13/96 SAMPLE NO# S2

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH	
1.		✓		✓	1.	1.
2.		✓		✓	2.	2.
3.		✓		✓	3.	3.
4.		✓		✓	4.	4.
5.		✓		✓	5.	5.
6.		✓		/	6.	6.

CALORIMETRIC TEST: Results

Comp Neg

TESTER W. THRIFT / Ligon / S-Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU ~~4~~ 33 DATE 8/13/94 SAMPLE NO# 53

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes / No		Yes / No		
1.	/	1.	/	1.	1.
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	/	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	/	6.	6.

CALORIMETRIC TEST: Results

Comp Neg

TESTER H. THRIFT / Hazen / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU ~~H 33~~ DATE 8/13/94 SAMPLE NO# S 4

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER H. THRIFT/Lisow/S. Hart

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 11 33 DATE 8/13/96 SAMPLE NO# 55

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER H. THRIFT/Lisa M. Hunt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU ~~TT~~ 33 DATE 8/13/96 SAMPLE NO# 56

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER H. THRIFT / Lisa / S. thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

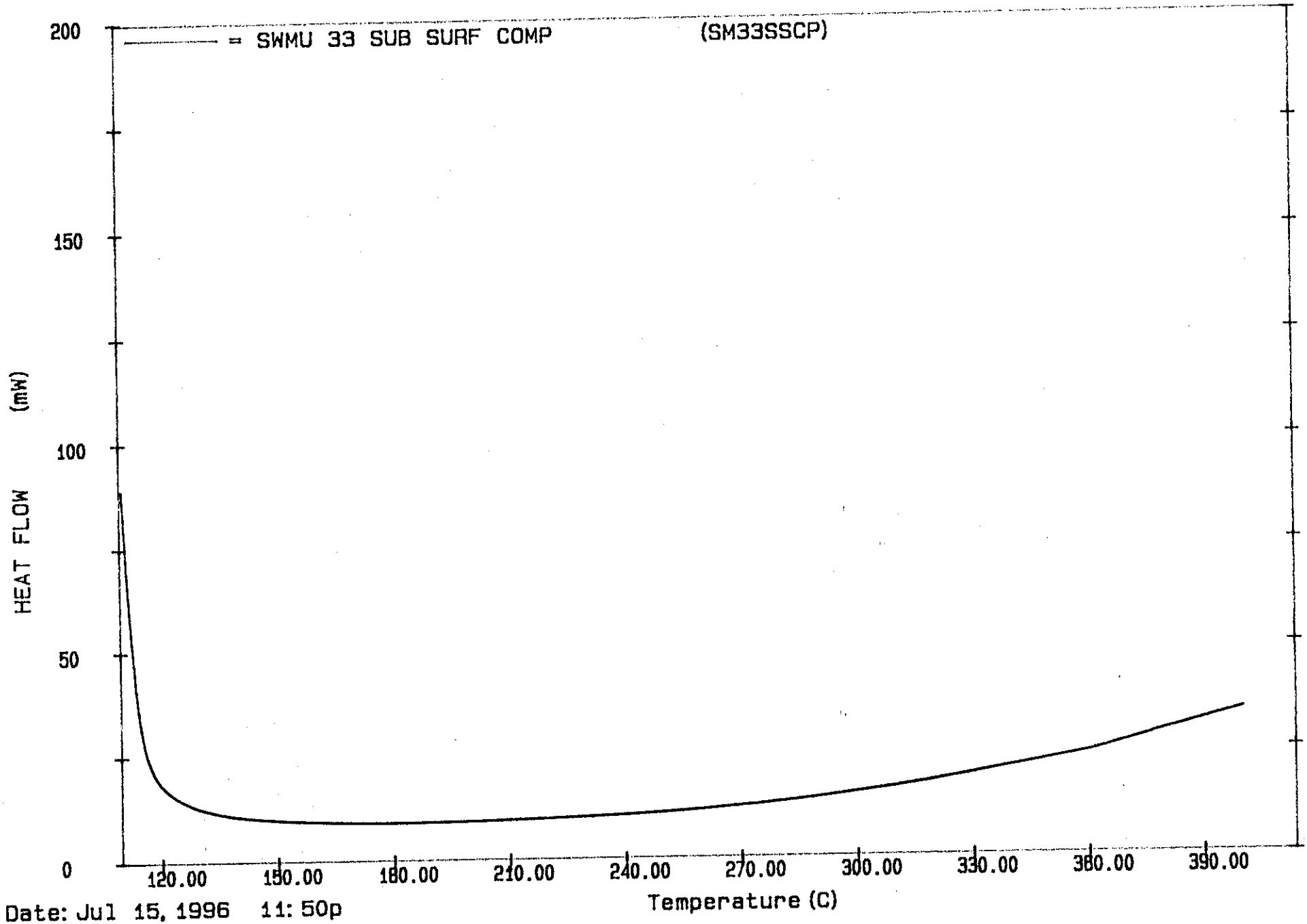
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-21-96	SWM43355 Comp	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 15, 1996 11:50p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: 133SSCP ST 8-21-96

NO NORFI

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 33 DATE 8/14/96 SAMPLE NO# SS 33-1

TESTER L/Gow / Cook / S. Hurst

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. ✓	✓	1.	✓	1.	Comp Neg
2. ✓	✓	2.	✓	2.	
3. ✓	✓	3.	✓	3.	
4. ✓	✓	4.	✓	4.	
5. ✓	✓	5.	✓	5.	
6. ✓	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 33 DATE 8/14/96 SAMPLE NO# SS 33-2

TESTER L/Gow / Cook / S Shrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. X	✓	1.	✓	1.	1. Comp Neg
2. X	✓	2.	✓	2.	2.
3. X	✓	3.	✓	3.	3.
4. X	✓	4.	✓	4.	4.
5. X	✓	5.	✓	5.	5.
6. X	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 33 DATE 8/14/96 SAMPLE NO# SS 33-3

TESTER L/Gow/Cook/S. Shrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. X	✓	1.	✓	1.	1. Comp Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 33 DATE 8/14/96 SAMPLE NO# SS 33-4

TESTER LIGON/COOK/S Shift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Comp Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 33 DATE 8/14/96 SAMPLE NO# SS 33-5

TESTER L/GAW/COOK / 1.2kg

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes	No	Yes	No		
1.		✓	✓		1.	1.
2.		✓		✓	2.	2.
3.		✓	✓		3.	3.
4.		✓	✓		4.	4.
5.		✓	✓		5.	5.
6.		✓	✓		6.	6.

CALORIMETRIC TEST:
Results

Comp Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 33 DATE 8/14/96 SAMPLE NO# SS 33-6

TESTER Allen/Cook/Schmidt

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Comp neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 33 DATE 8-14-96 SAMPLE NO# SS 33-7

TESTER L/Gow/Cook / S Shyt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 33 DATE 8/14/96 SAMPLE NO# SS 33-8

TESTER LIGON/COOK / S. Shryl

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 33 DATE 8/14/96 SAMPLE NO# SS 33-10

TESTER LIGON/COOK / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Comp 1kg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

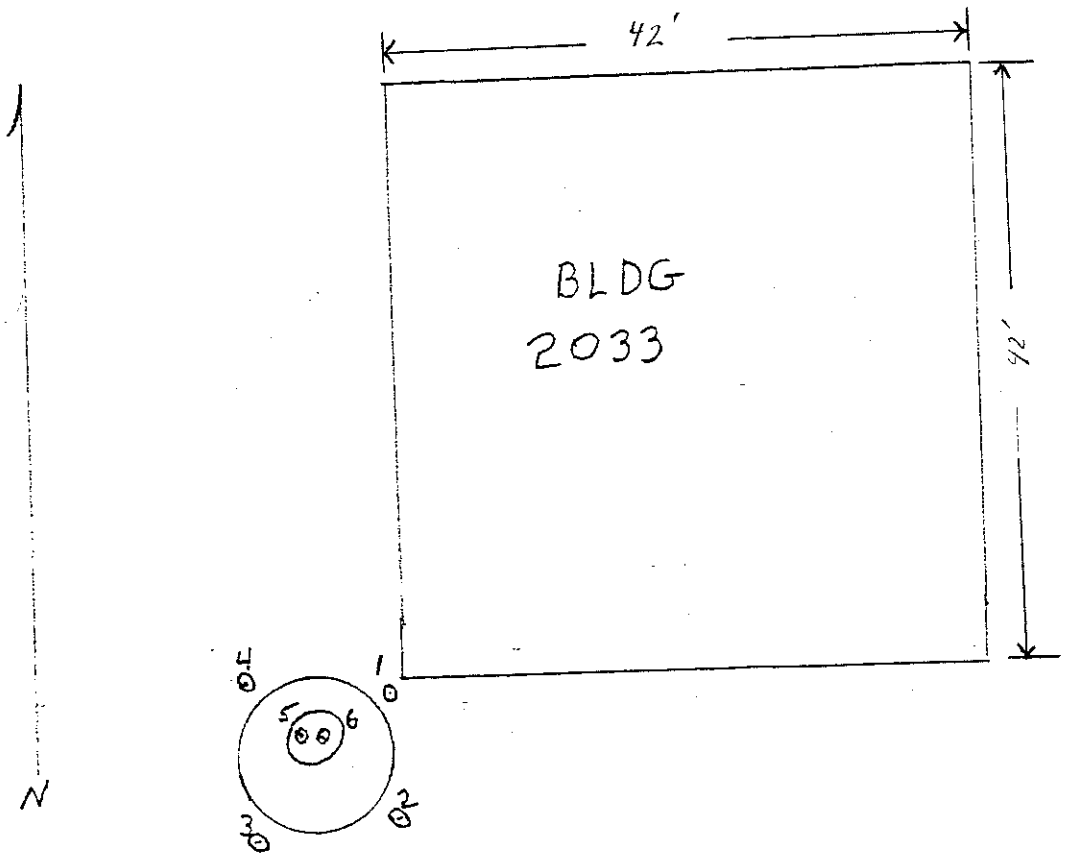
S--SURFACE
SS--SUBSURFACE

APPENDIX I

SWMU 36 - PELLET HOUSE SEPTIC TANK

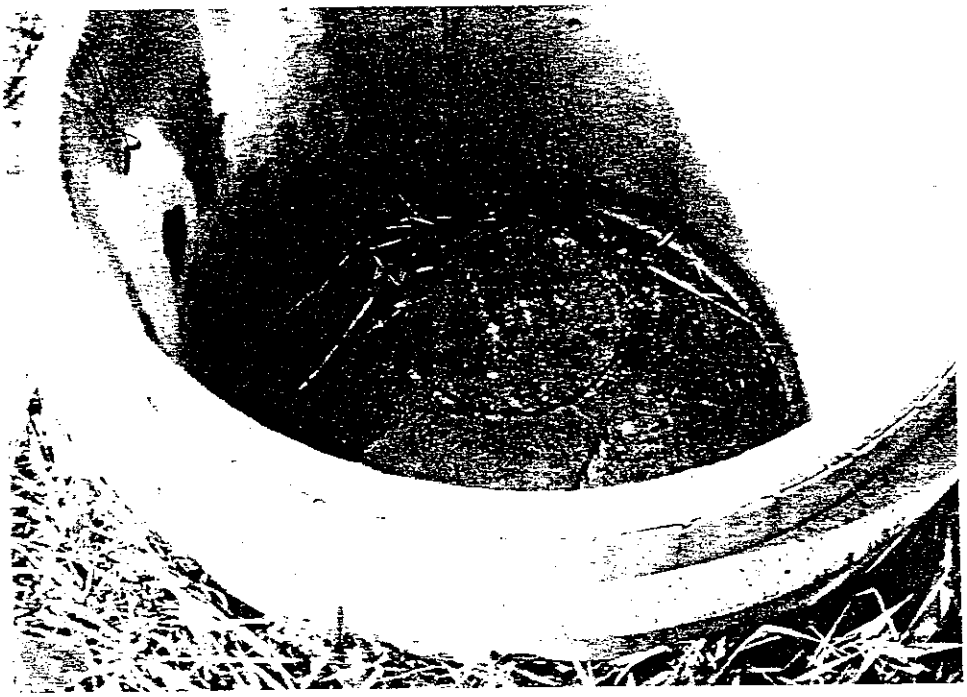
SWMU 36

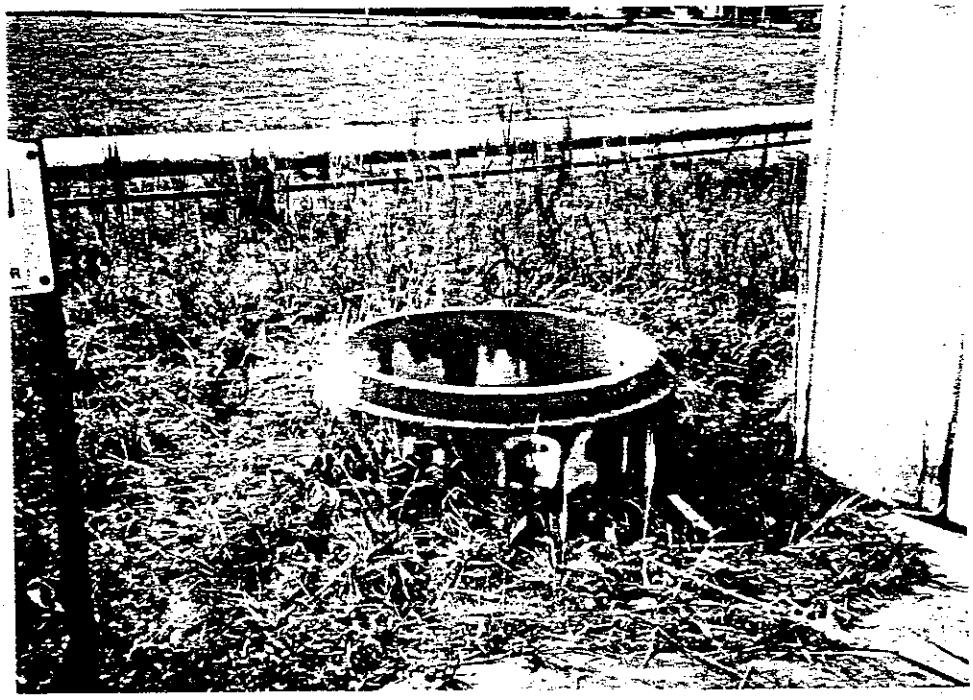
PELLET HOUSE SEPTIC TANK, LOCATED AT THE SOUTHWEST CORNER OF BLDG 2033.



SUMMARY OF ACTIVITIES FOR SWMU 36

The implementation of the ICM work plan for SWMU 36 consisted of taking surface (1-3") and subsurface (2-8") samples from four locations (see map). Samples 1-4 were collected approximately one foot from the septic tank and below a thin layer of gravel on the surface. Samples 1-4 tested negative for explosives using all three test methods. Surface samples were run as composites on the calorimeter while subsurface samples were run individually. Samples 5 and 6 were collected from the sediment within the tank. These samples tested negative for friction and impact. However, the calorimeter indicated the presence of Tetryl. Removal of sediment within the tank is conducted periodically by Dyno-Nobel.





UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-16-96	Smu 365	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

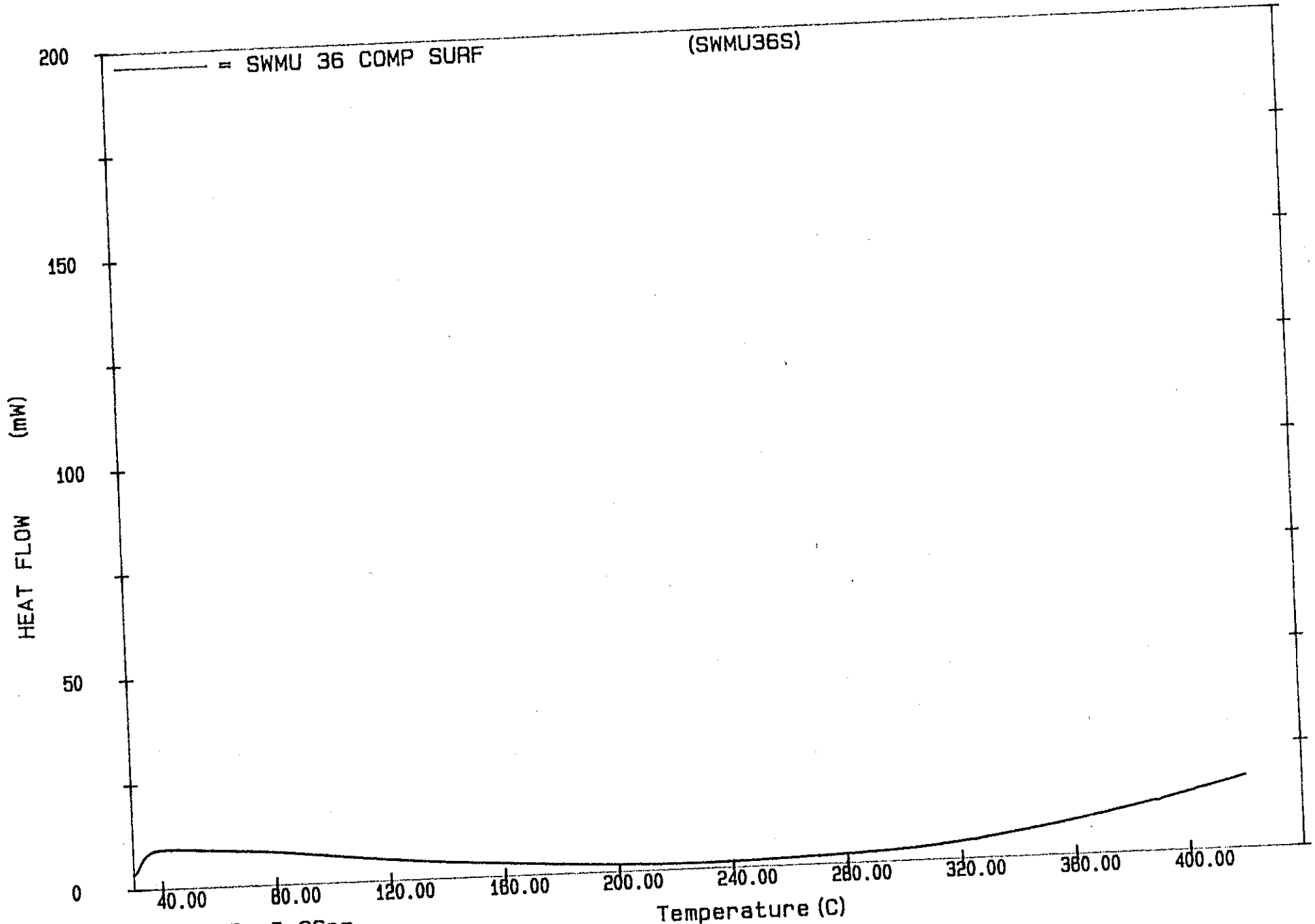
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

N= N0



Date: Jul 10, 1996 8:26pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: SWMU36S\
1: SWMU36S ST 8-16-96

DYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 36 DATE 8/13/96 SAMPLE NO# 51

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✗	1.	1.	Comp Ng
2.	✓	2.	✗	2.	2.	
3.	✓	3.	✗	3.	3.	
4.	✓	4.	✗	4.	4.	
5.	✓	5.	✗	5.	5.	
6.	✓	6.	✗	6.	6.	

TESTER Cook / S. Hart

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 36 DATE 8/13/94 SAMPLE NO# 52

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	X	1.	1.	Comp Neg
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER Cook / Smyt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 36 DATE 8/13/96 SAMPLE NO# 53

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	X	1.	1.	
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER Cook / S. Thut

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 36 DATE 8/13/96 SAMPLE NO# S4

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	X	1.	1.	
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

TESTER Cook / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-3-96	SWMG 3655							
	1	N	N	N	N	N	N	N
	2	N	N	N	N	N	N	N
	3	N	N	N	N	N	N	N
	4	N	N	N	N	N	N	N
	5	N	N	N	N	N	N	N
	6	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

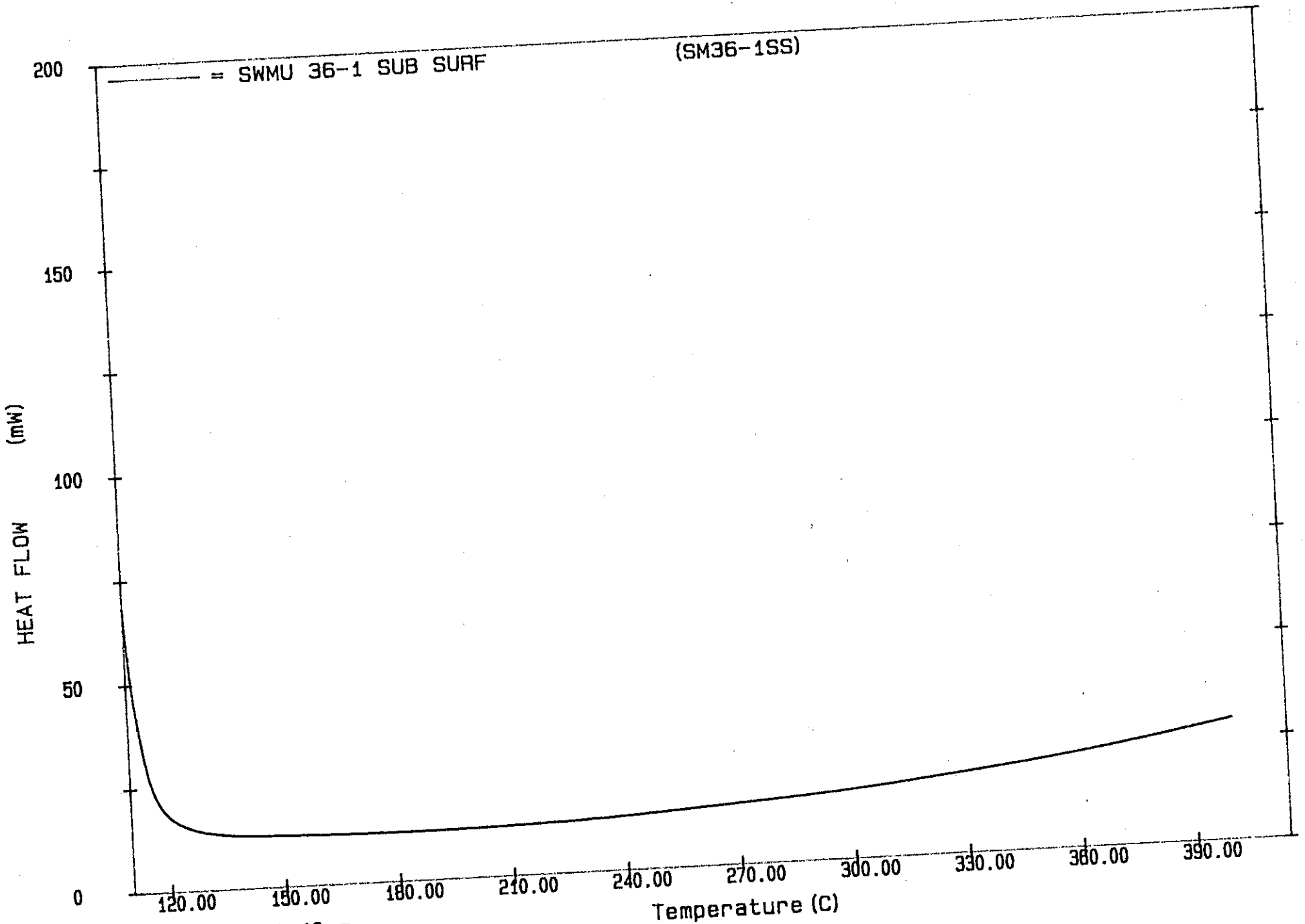
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

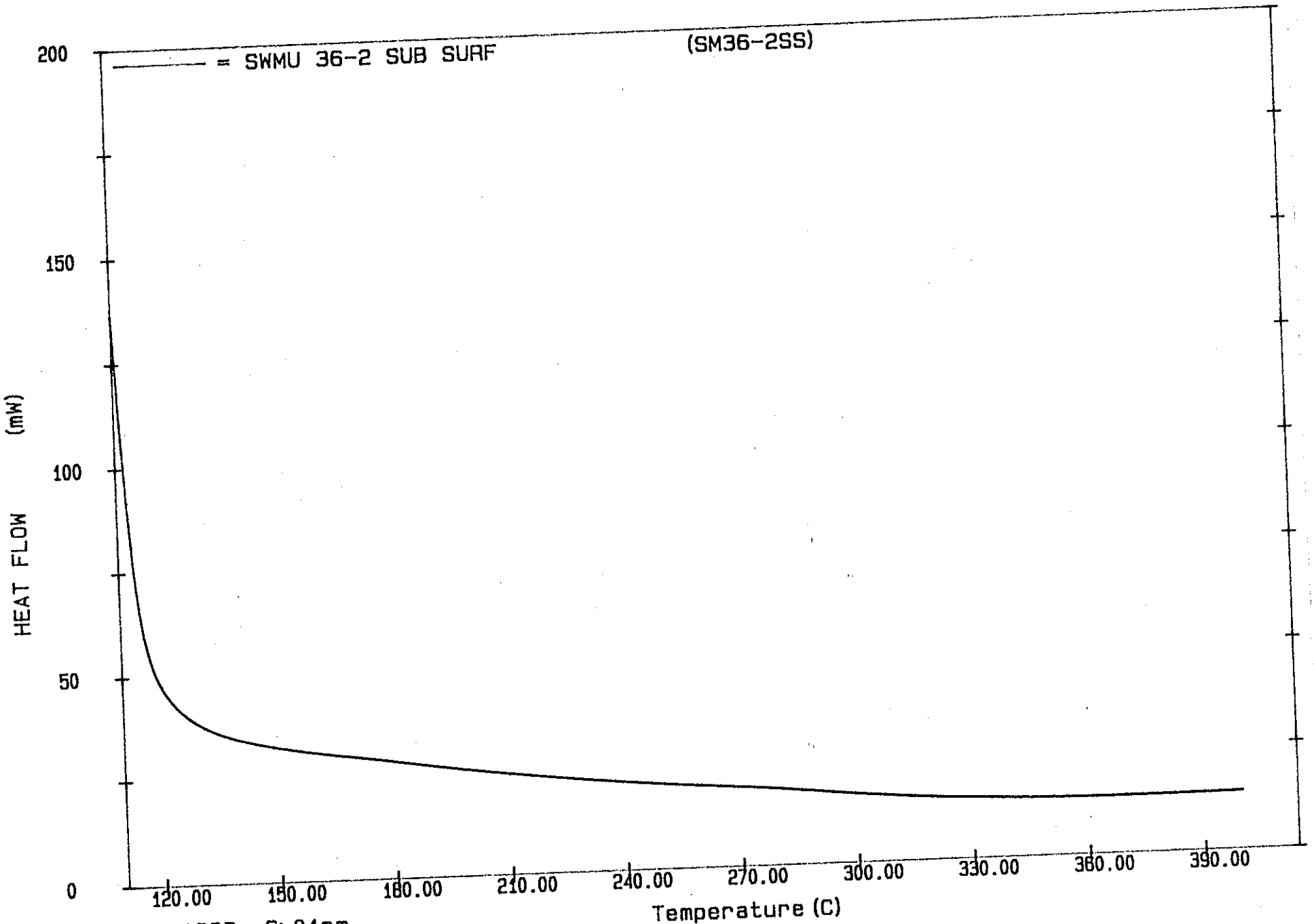
Y= YES

N= N0



Date: Jul 28, 1996 4: 40pm
Scanning Rate: 20.0 C/min
Samp Wt: 0.000 mg Path: C: \PE\
Fi 1: SM36-1SS ST 9-3-96

PE KIN-ELMER DSC7



Date: Jul 28, 1996 6:01pm
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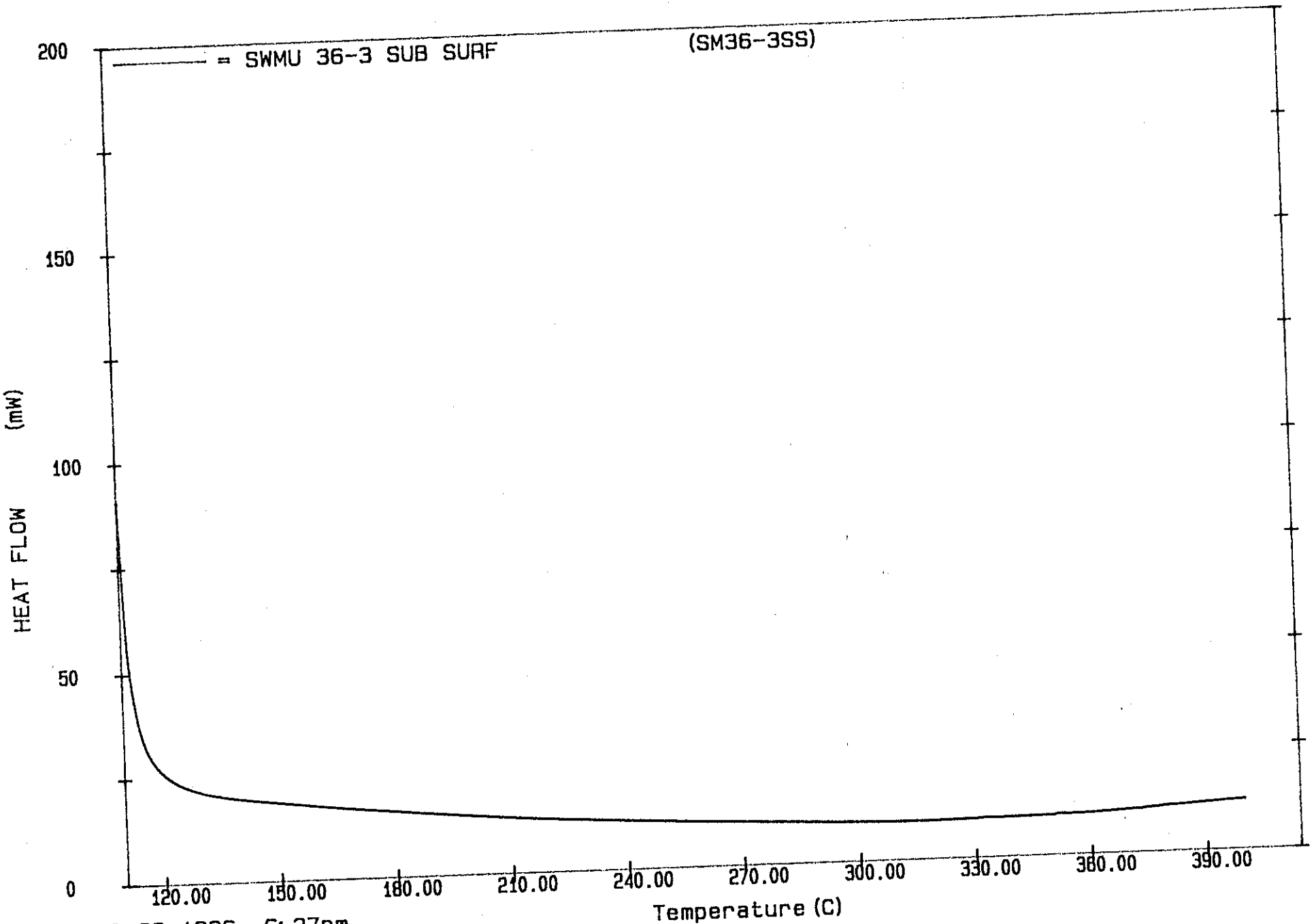
Sample Wt: 0.000 mg Path: C:\PE\
File: SM36-2SS ST 9-3-96

PERKIN-ELMER DSC7



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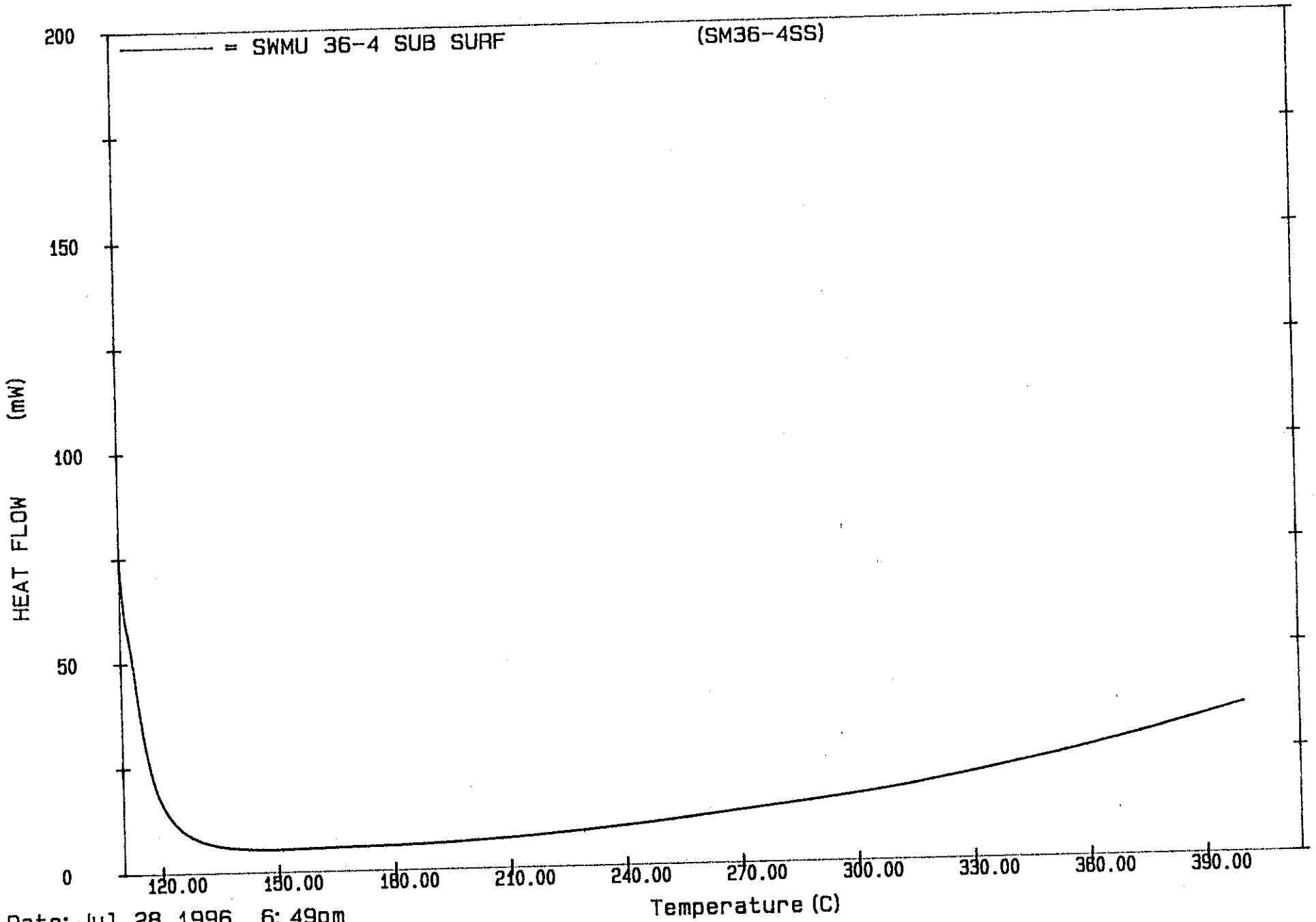
File: M36-3SS ST 9-3-96

PER TN-ELMER DSC7



Date: Jul 28, 1996 6: 49pm
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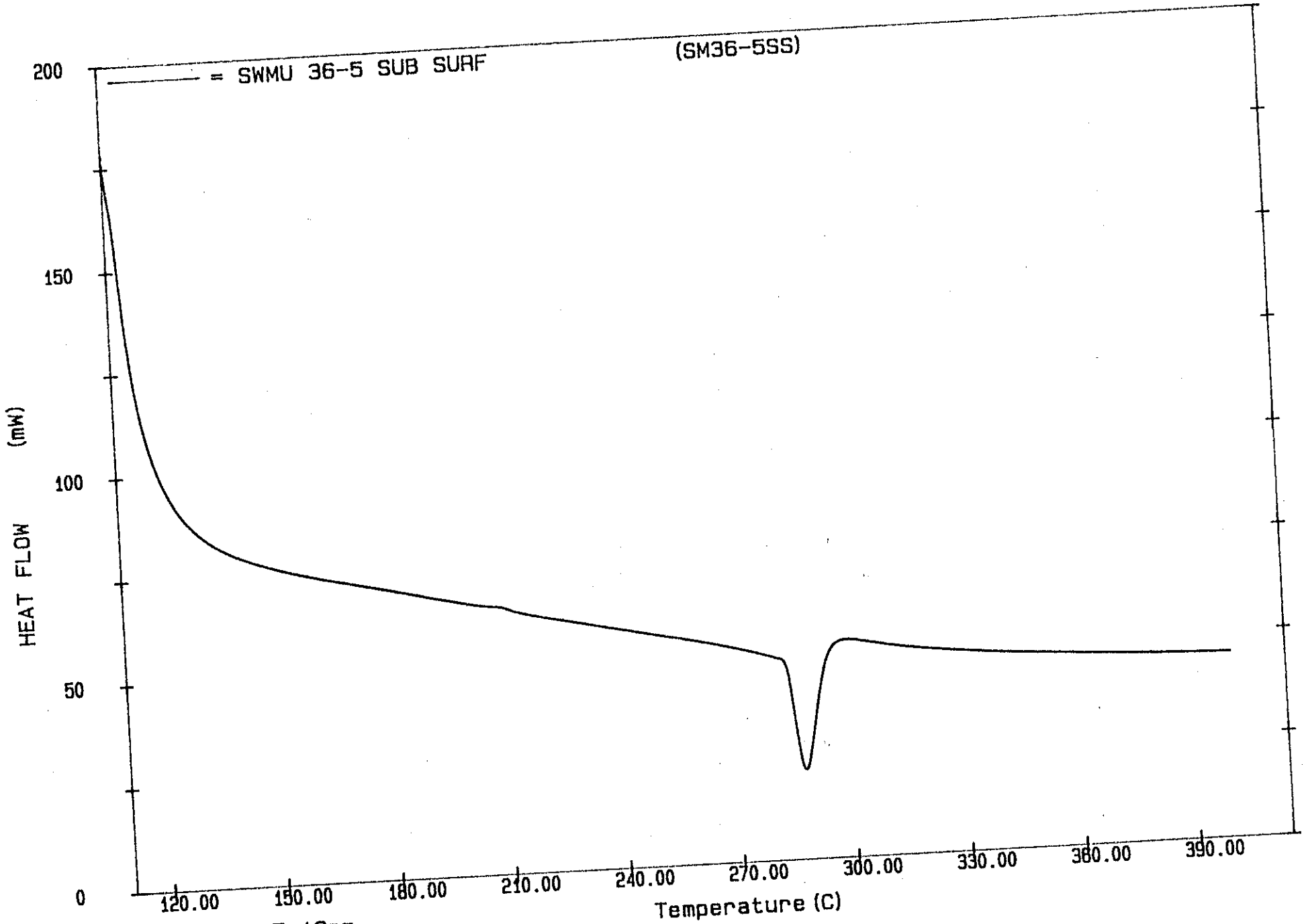
Sample Wt: 0.000 mg Path: C: \PE\
File M36-4SS ST 9-3-96

PERKIN-ELMER DSC7



Date: Jul 28, 1996 7: 12pm
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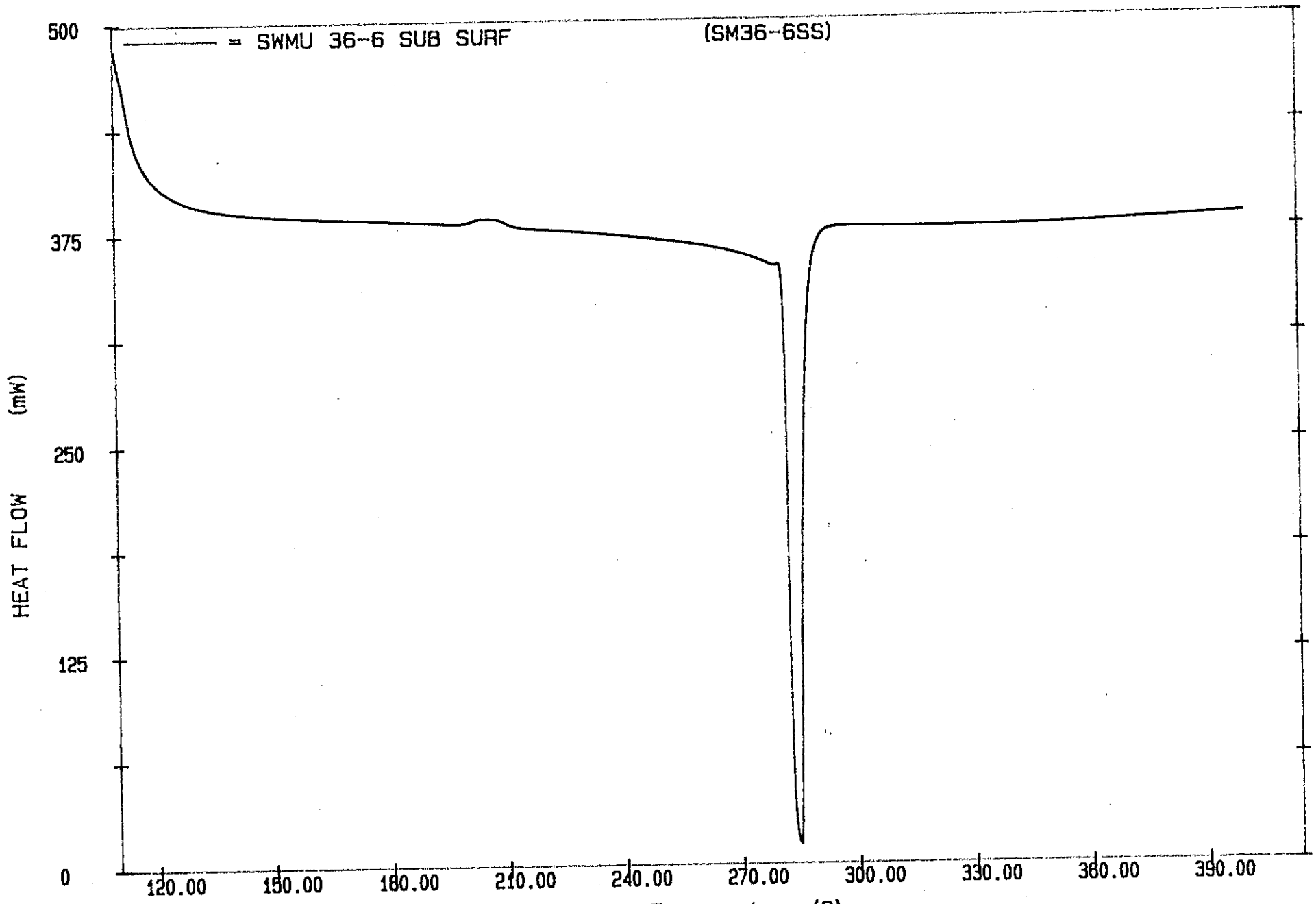
Sampl- Wt: 0.000 mg Path: C: \PE\
File: SM36-5SS ST 9-3-96

PERKIN-ELMER DSC7



Date: Jul 28, 1996 7: 40pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File: SM36-6SS ST 9-3-96

PE IN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 36 SS DATE 8/20/96 SAMPLE NO# SS 1

TESTER Ligon / Cook / S Hirt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	X	1.	1.	Neg
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 36 SS DATE 8/20/95 SAMPLE NO# SS 2

TESTER Lizon / Cook / S Hunt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	X	1.	1. Neg
2.	✓	2.	X	2.	2.
3.	✓	3.	X	3.	3.
4.	✓	4.	X	4.	4.
5.	/	5.	X	5.	5.
6.	/	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 36 57 DATE 8/20/99 SAMPLE NO# SS 3

TESTER Ligon / Cook / A Wright

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	
1.	✓	1.	X	1.	1.
2.	✓	2.	X	2.	2.
3.	✓	3.	X	3.	3.
4.	✓	4.	X	4.	4.
5.	✓	5.	X	5.	5.
6.	✓	6.	X	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 36 SS DATE 8/20/94 SAMPLE NO# SS 4

TESTER Lyon / Cook / Smith

FRICTION TEST: IMPACT TEST: DEPTH

	Reactive Yes	Reactive No			
1.		✓	1. X	1.	1.
2.		✓	2. X	2.	2.
3.		✓	3. X	3.	3.
4.		✓	4. X	4.	4.
5.		✓	5. X	5.	5.
6.		✓	6. X	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 34 SS DATE 8/20/96 SAMPLE NO# SS 5

TESTER Legon / Cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	X	1.	1.	Positive
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 36 SS DATE 8/20/96 SAMPLE NO# SS 4

TESTER Lizon / Cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	X	1.	1.	Positive
2.	✓	2.	X	2.	2.	
3.	✓	3.	X	3.	3.	
4.	✓	4.	X	4.	4.	
5.	✓	5.	X	5.	5.	
6.	✓	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

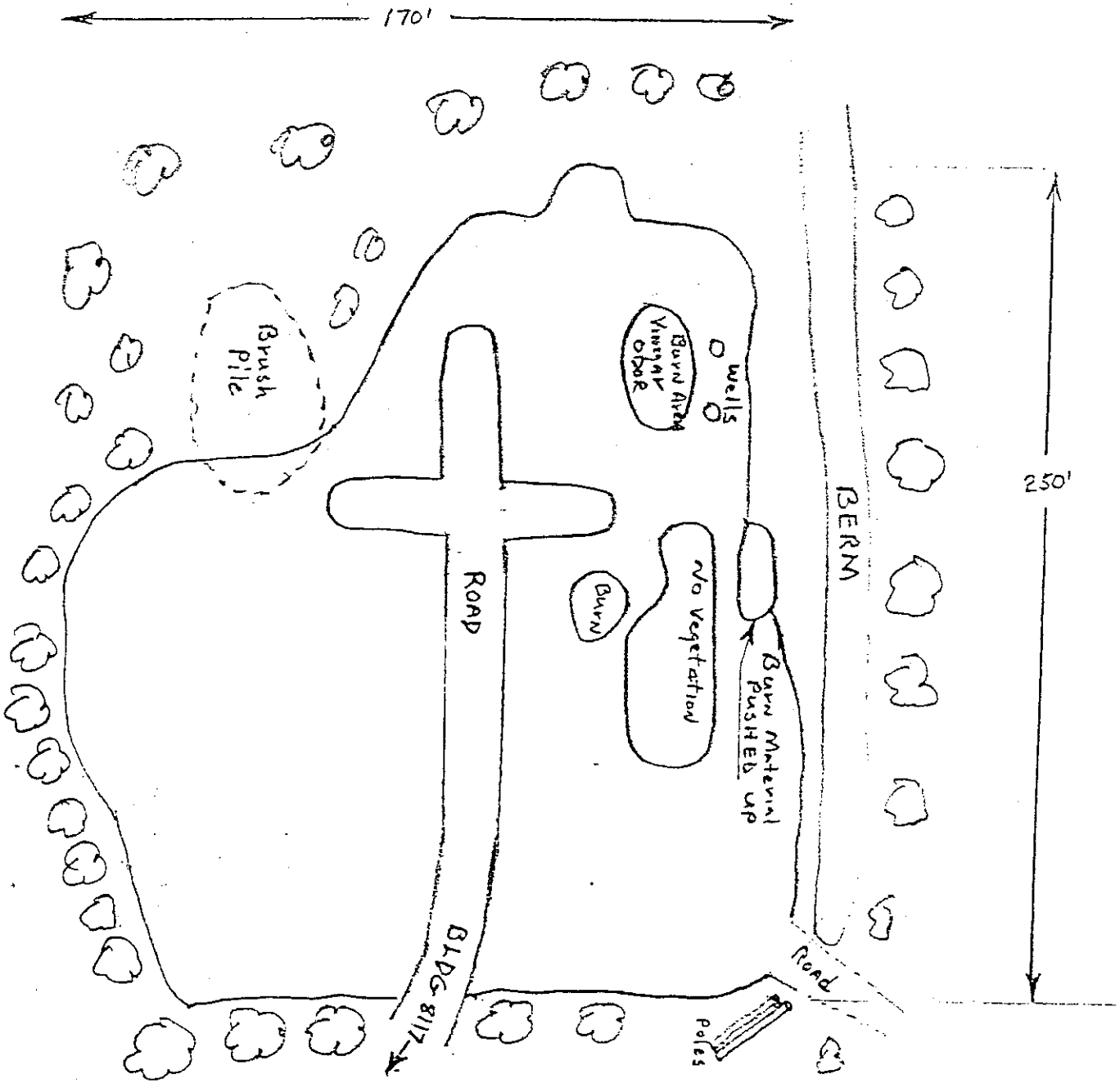
S--SURFACE
SS--SUBSURFACE

APPENDIX J

SWMU 38N - GRENADE DISPOSAL AREA NORTH

SWMU 38N

SUSPECTED GRENADE DISPOSAL AREA (NORTH), CONSISTS OF APPROXIMATELY .7 ACRES OF LAND.



SUMMARY OF ACTIVITIES FOR SWMU 38N

The implementation of the ICM work plan for SWMU 38N consisted of dividing the area into sixteen, 15' by 180' lanes. Using metal detectors, UXB technicians performed a geophysical sweep of each lane. Approximately 50 of the highest detections or anomalies were marked with pin flags. Once marked, UXB technicians dug up and identified each anomaly. Typical finds included aluminum cans, foil wrap, and caps (see data sheets from each lane). There was no evidence of grenade or grenade parts found during this investigation. All potentially explosive material was stored in five gallon containers and turned over to Dyno-Nobel for subsequent disposal. All scrap metal was collected in one-55 gallon poly drum and turned over to Dyno-Nobel for disposal.





UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

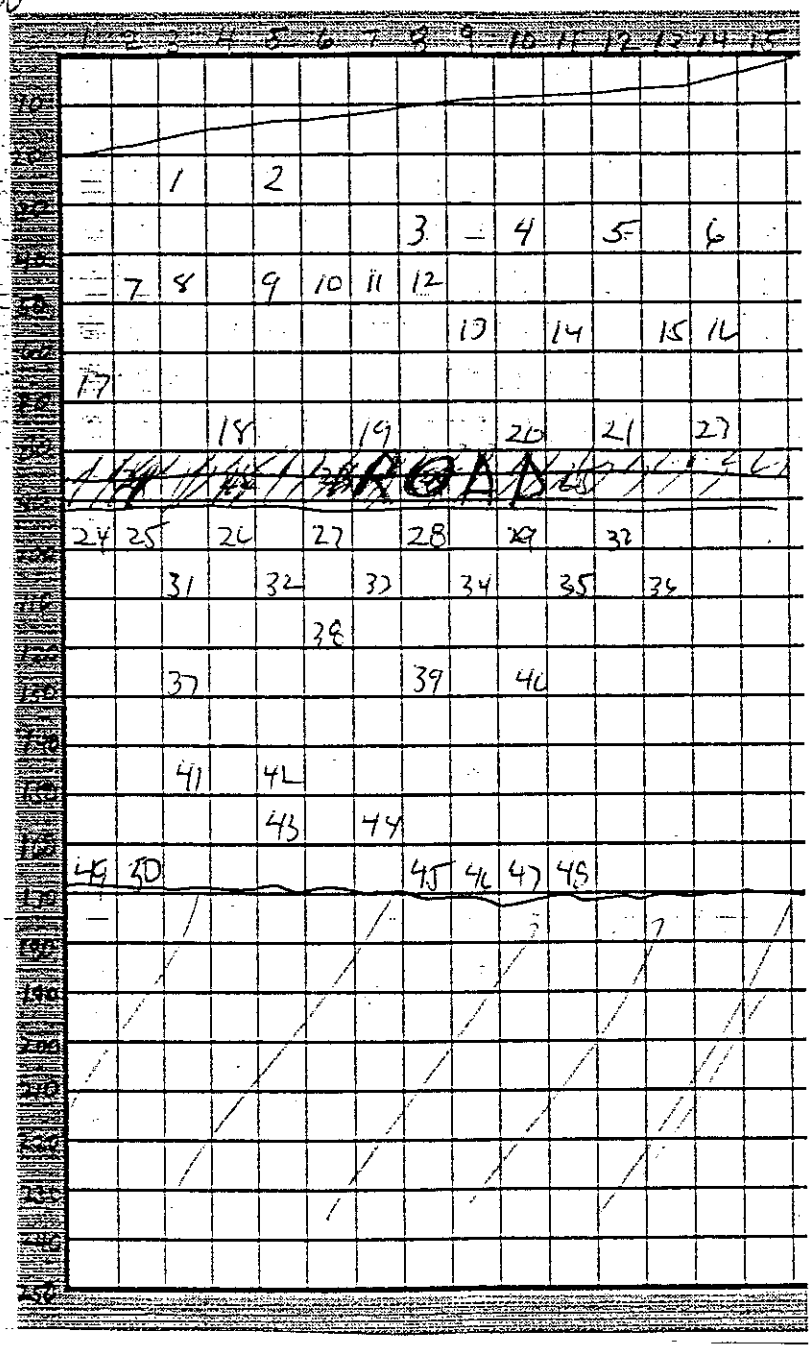
Team Leader THRIFT Date

Comments: SWMU 38 N Lane 1

Grids start in SW Corner, Contact # are E to West 140 Total Contacts

N. →

SW



Time Start:

Finish:

Total Mnhrs:

Contacts Live ✓

1. Foil
2. Foil
3. Foil
4. Foil
5. Foil
6. Foil
7. 1/4 X 8" bolt
8. 1/8" Dia Wire Oval 12"
9. Foil + Smashed Blasting Cap
10. Foil
11. Foil
12. Foil
13. Foil
14. Foil + Smashed Blasting Cap
15. Foil
16. Foil
17. Foil
18. 25 3" X 6" Rolls of Det wire
19. Foil
20. Foil
21. Foil
22. Foil
23. Smashed Blasting Cap
24. Foil
25. Soda can
26. Soda can
27. 2 Rolls of Det wire
28. 3 Rolls of Det wire
29. 6" wire strand
30. 1/8" Dia X 12" Wire Oval
31. Small Aluminum Can
32. wire
33. wire
34. Foil
35. Foil
36. Foil
37. 55 gal Drum lid
38. Soda can
39. Wire
40. Foil
41. Foil
42. Foil
43. Foil
44. Foil
45. Foil
46. Wire
47. Foil
48. Washer
49. Foil
50. Foil

UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

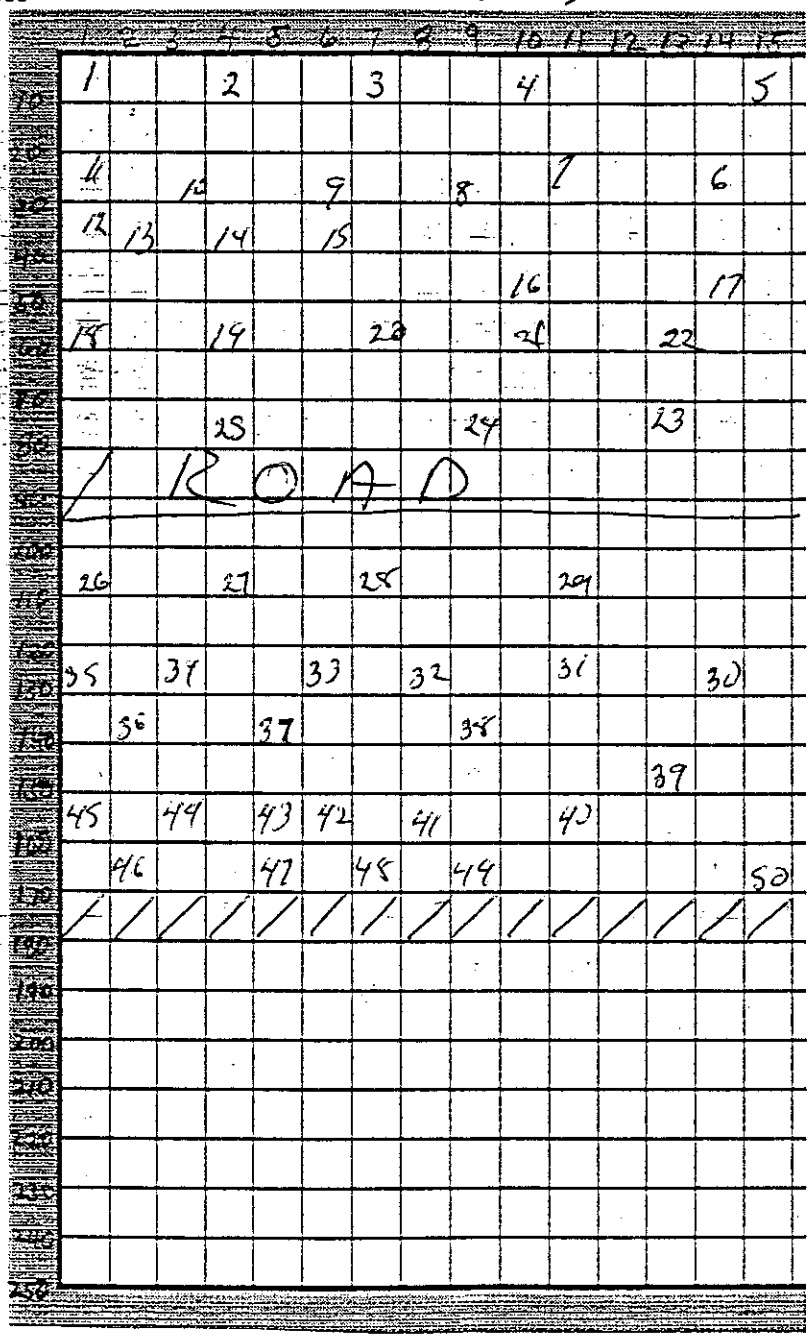
Team Leader Tom Logan Date 7-31

Comments: OVERCAST / DRIZZLE

SWMU 38-N WAVE 2

Total Contacts 350

SWC N →



Contacts Live ✓

1. ALUMINUM FOIL STRIP
2.
3.
4.
5.
6.
7.
8.
9.
10.
11. ALUMINUM FOIL WAD
12. ALUMINUM FOIL STRIP
13.
14.
15.
16.
17.
18.
19.
20.
21.
22.
23. SOFT DRINK CAN
24. TIN CAN
25. ALUMINUM CAP
26. ALUMINUM FOIL WAD
27. ALUMINUM FOIL STRIP
28.
29.
30.
31.
32.
33.
34.
35.
36.
37.
38.
39.
40.
41.
42.
43. STAINLESS STRAP
44. ALUMINUM FOIL STRIP
45.
46.
47.
48.
49.
50.

Time Start: 0630

Finish: 0845

Total Manhrs: 5.30

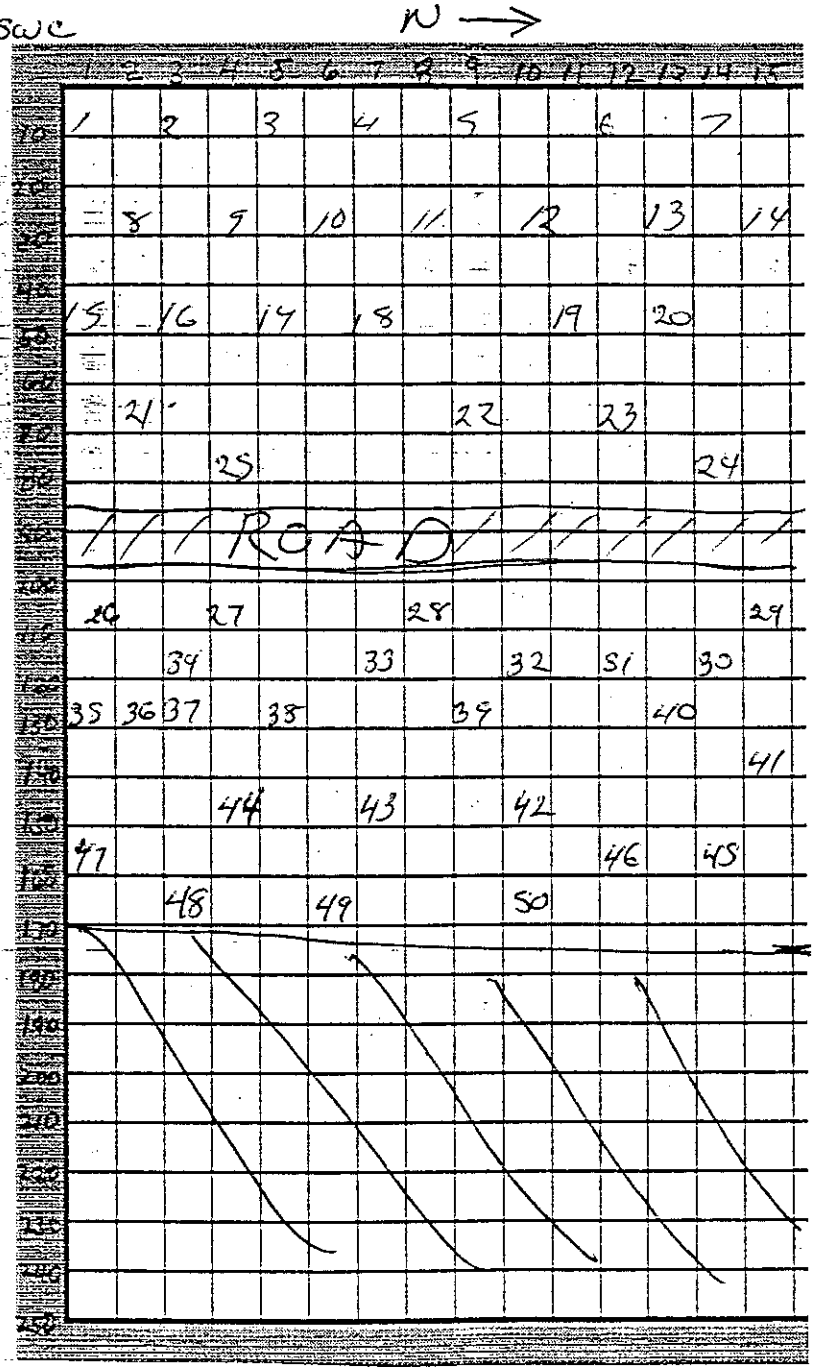
UXB International, Inc.

Job Name Port Ewen Project Leader Schuckers

Team Leader Tom Higgins Date 7-31

Comments: SWMU 38-N Lane 3

280 TOTAL CONTACTS



Time Start: 0900

Finish: 1200

Total Mines: 0

Contacts — Live ✓

1. NAIL
2. ALUMINUM FOIL STRIP
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.
21.
22. ALUMINUM FOIL WAD
23. ALUMINUM FOIL STRIP
24.
25.
26.
27.
28.
29.
30.
31.
32.
33.
34.
35.
36.
37.
38.
39. SPEAR
40. ALUMINUM FOIL STRIP
41.
42.
43.
44.
45.
46.
47.
48.
49.
50.

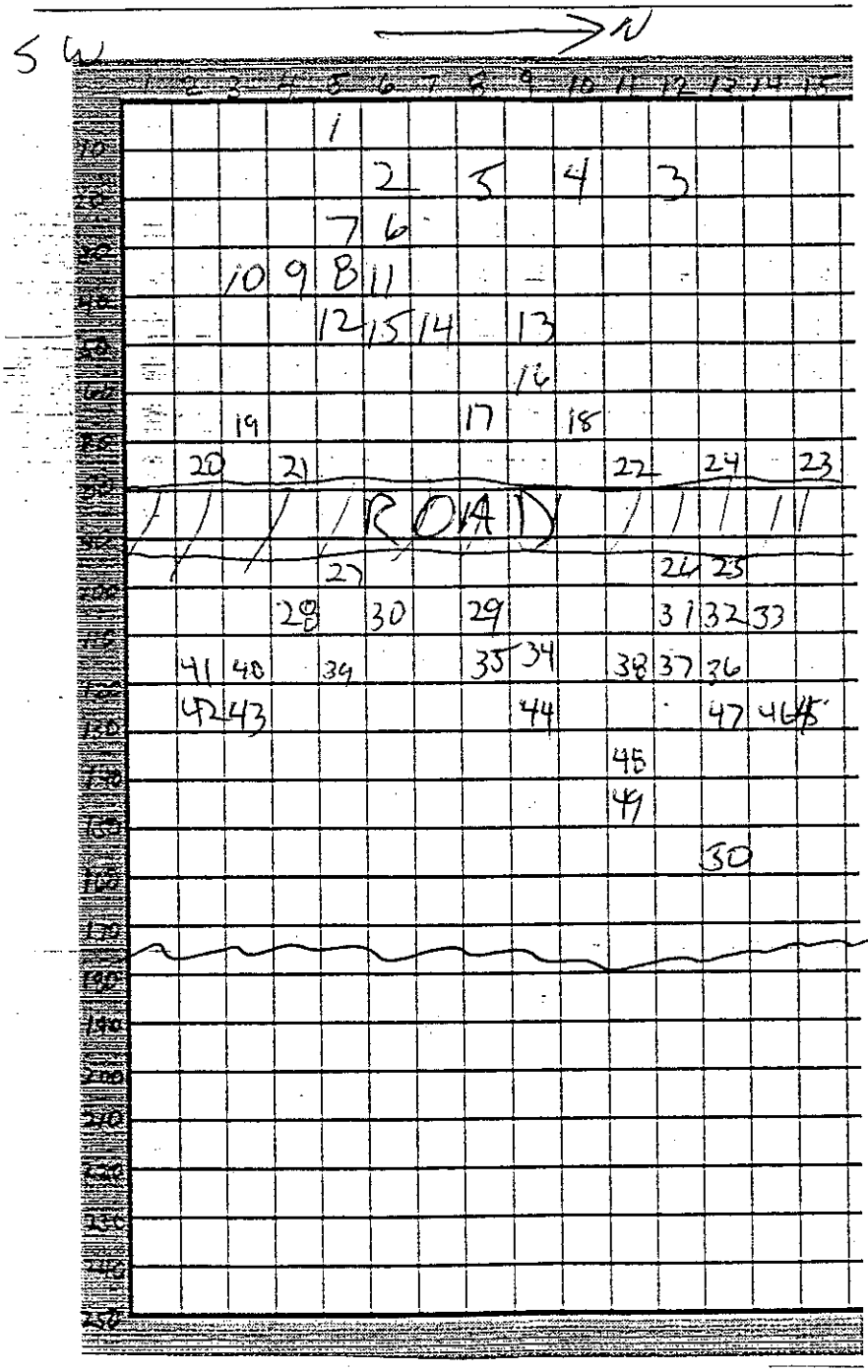
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader THRIFT Date 07/31/94

Comments: SWMU 38W Lane 4

160 Total contacts



Time Start: 1200

Finish: 1530

Total MNHs: 7

Contacts — Live ✓

1. Foil
2. Soda Can
3. Foil Catsup
4. Soda can Top
5. Aluminum Disk 2"
6. Foil
7. Foil
8. Foil
9. Soda Can
10. Soda Can
11. Soda Can Top
12. Melted ~~Metal~~ Aluminum
13. 2½" Aluminum Disk
14. Windshield Washer blade
15. 3 inch Washer
16. Smashed det w/ Hex Head & Lead
17. Metal debris, Nails
18. Soda can
19. Aluminum Can
20. Foil Tape
21. Foil
22. Metal Top 2" dia
23. Soda Can
24. Aluminum
25. Foil
26. Foil
27. Det Shunt
28. Bottle Cap & foil
29. Soda can
30. Soda Can Tab Top Center
31. Det Shunt
32. Det shunt + Smashed Cap
33. Foil
34. Foil
35. Det lead
36. Soda Can Top
37. Foil
38. Soda Can
39. Foil
40. Pot metal
41. Foil
42. Foil
43. Foil
44. Foil
45. Foil
46. Foil
47. Foil
48. Aluminum
49. Foil
50. Foil

UXB International, Inc.

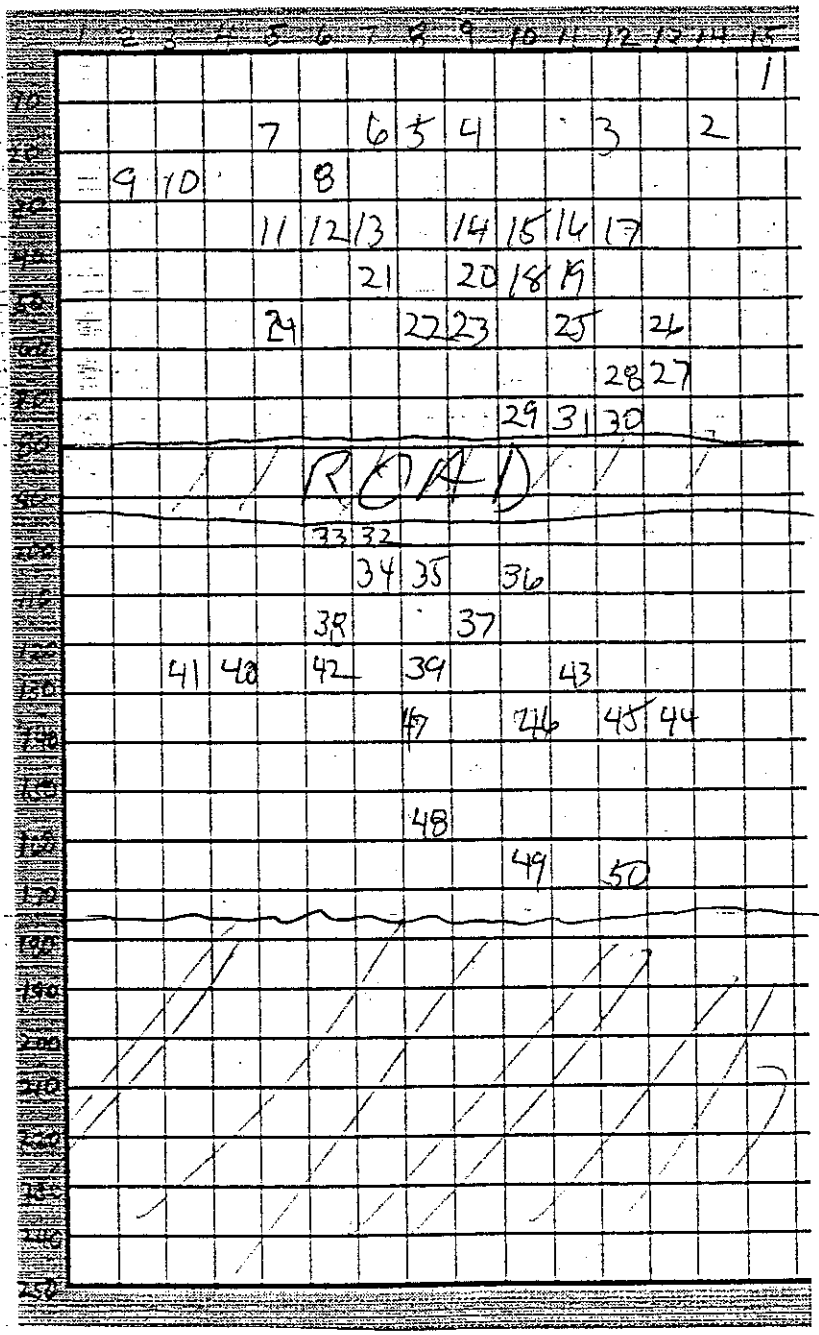
Job Name Port Ewen Project Leader Schuckert

Team Leader _____ Date 07/31 – 08/01/96

Comments: Swath 38N Lane 5

100' – 135' Total Saturation

1' fill dirt over Clay



Time Start: 1530 – 1700

Finish: 0700 – 0845 Dis

Total Mnhrs: 6.5

Contacts — Live ✓

1. Det Shunt
2. Padlock
3. Det Shunt
4. Foil
5. Foil
6. Foil
7. Soda Can Pull Tab
8. Foil Disc 2"
9. Foil
10. Foil
11. Nails
12. Nails
13. Nails
14. Nails
15. Nails
16. Nails
17. Nails, "
18. (9) $\frac{1}{4}$ X 10" Bolt
19. Det Shunt
20. $\frac{1}{4}$" X 10" Bolt
21. Nail
22. $2\frac{1}{2}$" Alum Disk (Bomb Fuze)
23. $\frac{1}{4}$ X 10 Bolt
24. Nail
25. Foil
26. Foil
27. Nails
28. Nails / metal Debris
29. 4" X 1" metal Strip
30. 2" Square Copper
31. Soda Can Top
32. Soda Can
33. Soda Can
34. Metal Debris
35. Foil
36. Foil
37. Knob / Nails
38. Soda Can / 100 File Folder H.
39. 15 Exp Bellows 2/caps
40. 20 File folder Hanger Str
41. Soda Can Top
42. Aluminum Band
43. Det Shut / Cap / metal
44. Soda Can
45. Roll Det Shunt Tape
46. Foil
47. Foil
48. Foil
49. Foil
50. Foil

UXB International, Inc.

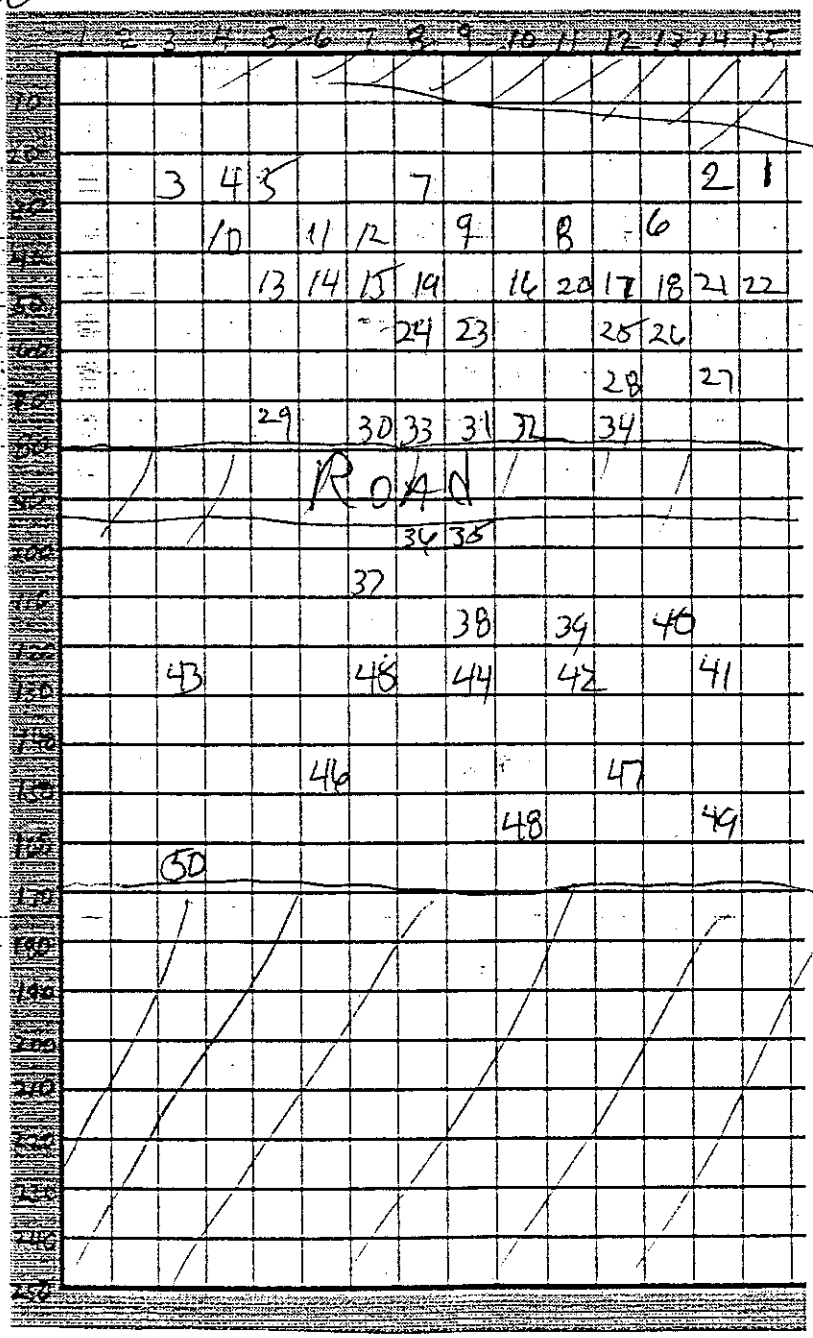
Job Name Port Ewen Project Leader Schuckers

Team Leader _____ Date 08/01/96

Comments: SWMU 38N Lane 6

18'-48' Saturated Cinders/100-140 Saturated with metal contacts

SW → N



Time Start: 0700 -0745 Flags 0845-1030 Dig

Finish: 0

Total Anoms: 5

Contacts Live ✓

1. Foil
2. Foil
3. Aluminum
4. ½" x 12 Bolt Spacer
5. Foil
6. Det Shunt
7. Det Shunt
8. Det Shunt
9. Aluminum Disk
10. Aluminum Scrap
11. ¼ x 10 bolt
12. (2) ¼" x 10" Bolts / 2½ Alum. D
13. 3" Alum Ring
14. Tetryl Booster Cover (Bot
15. Slag
16. Roll Det Shunt Tape
17. Cap
18. Foil
19. Slag
20. Soda can
21. Slag
22. Det shunt
23. Cap
24. Det shun
25. ¾" x 9 Iron Rod
26. ~~Det Shun~~ Cap
27. Slag
28. Roll Det Shunt Tape
29. Det Shunt
30. ⅜" Alum Plate Triangle
31. 2" x 4" Tin
32. Slag
33. ¼ x 3 Nut & Bolt
34. Soda can
35. Foil
36. Soda can
37. Scrap metal 2" x 2"
38. Slag & Rust
39. Rust & nails
40. Bellows
41. Aluminum Black
42. Soda Can
43. Foil
44. Pot metal
45. Soda can
46. Slag
47. Det Shunt
48. Can Top
49. Aluminum Scrap
50. Foil

UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

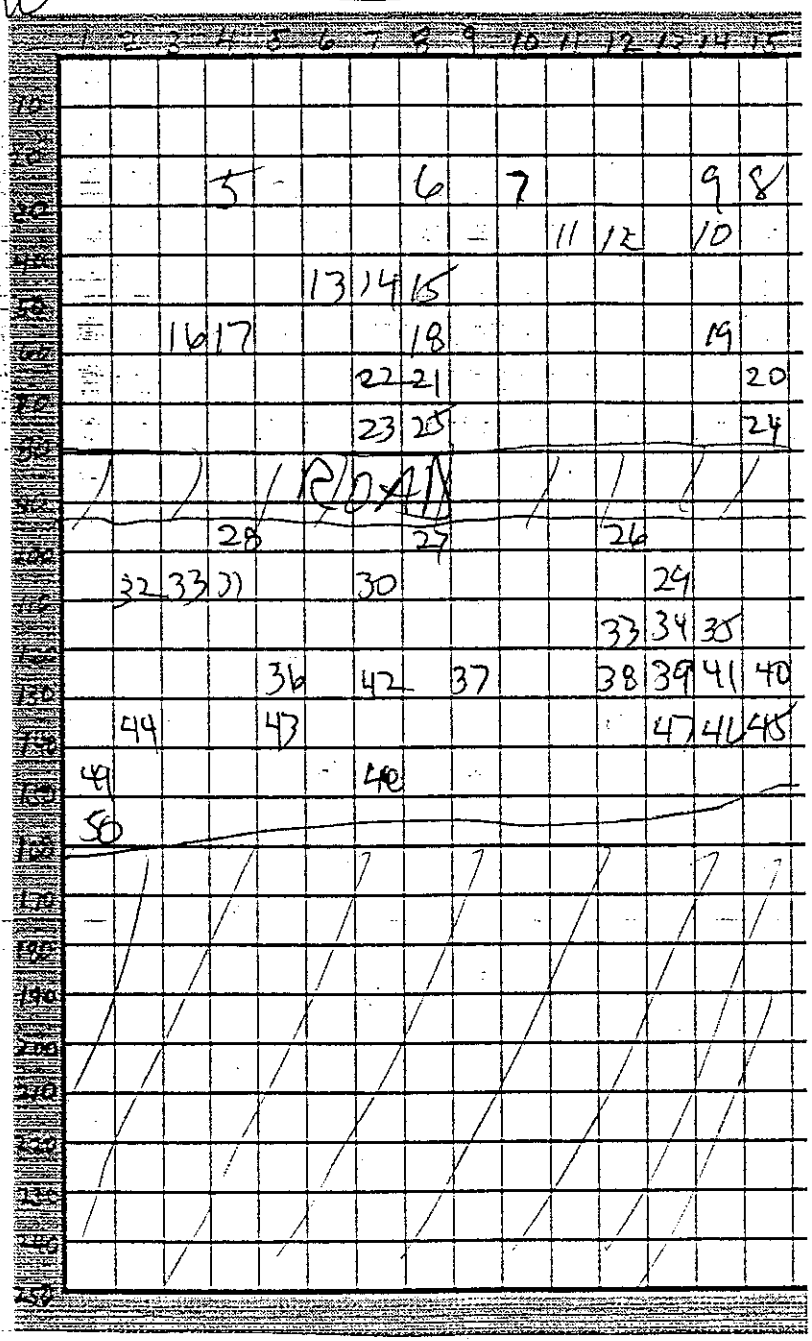
Team Leader Date 08/01/96

Comments: SWMU 38N Lane 7

1'-45' Saturated Slag

90 - 130 saturated

SW → N



Time Start: 0745 - 0830 Flag ~~0845~~ - 1030 - 1145

Finish: 1145

Total Mnhrs: 4

Contacts Live ✓

1. ~~Metal Can Top~~ Foil
2. ~~1½" Pipe Reducer~~ Tape R
3. Cap
4. Roll Det Shunt Tape
5. Nail
6. 3" Fan Squirrel Cage
7. Metal Debris 1"x3"
8. Soda Can
9. Det Wire
10. Pre Extrusion Cap
11. Det Shunt Roll Tape
12. Metal Debris 3"x1"
13. ~~Alum~~ Tin
14. Slag
15. Foil
16. Pre Extrusion Cap
17. Pre extrusion Cap
18. Alum Slag
19. Nail
20. Cap
21. Det Shunt
22. Roll of Det Shunt Tape
23. Foil
24. Cap
25. Foil
26. Foil
27. Foil
28. Foil
29. Alum Slag
30. Pop Top
31. Soda Can
32. Foil
33. Alum Ring from Tape
34. Alum Slag
35. Foil
36. ½ Alum Ring from Tape
37. ~~Alu~~ Foil
38. Foil
39. Foil
40. 20' ¼" cable
41. Det Shunt
42. Foil
43. ~~Sh~~ Det Shunt
44. Det shunt
45. Foil
46. Cap
47. Aluminum Disc
48. Cap
49. 1½" Pipe Reducer
50. metal Can Top

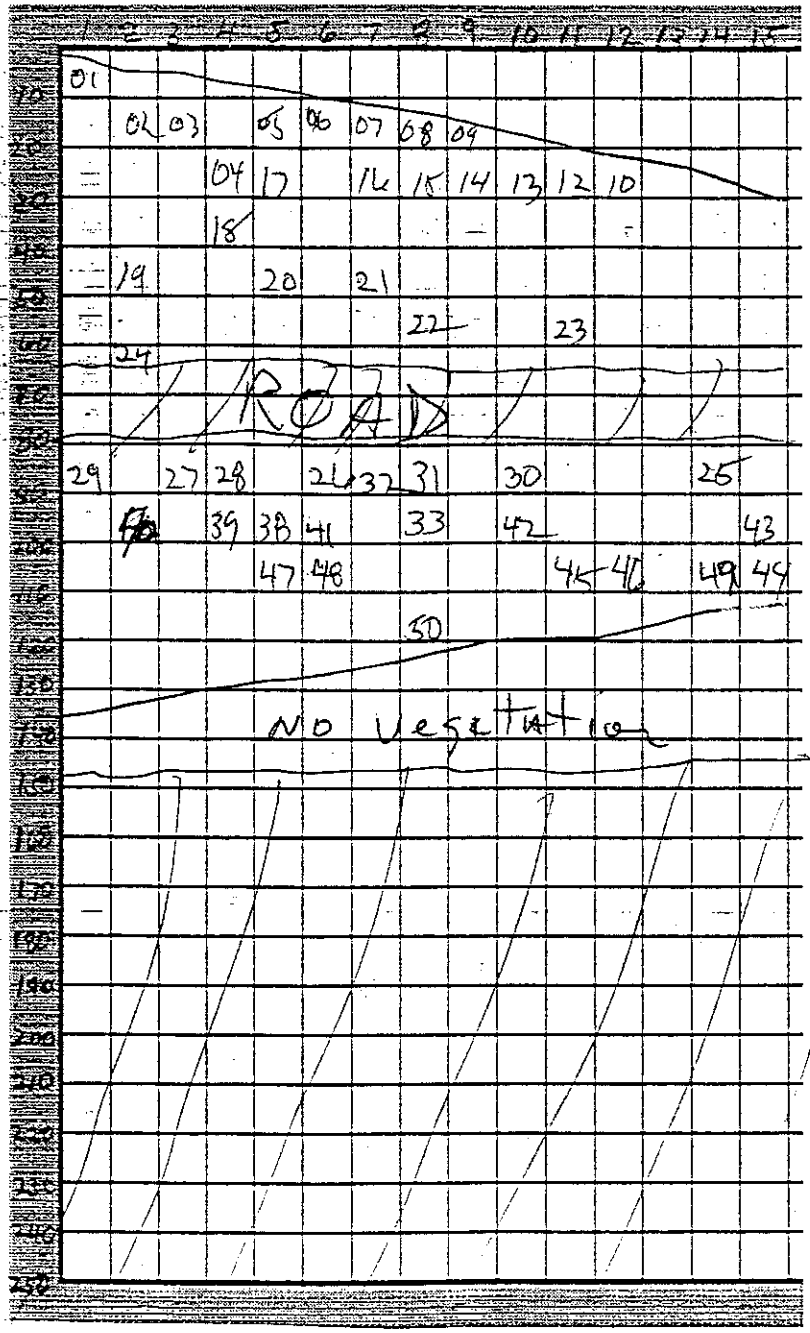
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader _____ Date 08/01/94

Comments: Total Saturation

1' — 115' SWMU 38 N Lane 8



Time Start: 1200

Finish: 1500

Total Mnhrs: 6

#34 Metal w/crystals
Grenade spoon
Dets
Battery
1/4" x 3" Tube

Contacts Live ✓

1. Slag
2. Slag
3. Slag
4. Slag
5. Slag
6. Slag
7. Slag
8. Slag
9. Det Shunt
10. Det Shunt
11. Slag
12. Foil
13. Nail
14. Slag
15. Slag
16. Slag
17. Slag
18. Slag
19. Can Top
20. 1" x 1" x 2" Square Stock
21. Rusty Can
22. 1½ x 3" x ¼ Steel Plate
23. Foil
24. Foil
25. Cap ?
26. Alum Tape Ring
27. Foil
28. Soda Can
29. Washer 2"
30. Washer 1"
31. Lip Stick ?
32. (3) Det Shunt Tape Rolls
33. Clippard Cin. OH
34. See below
35. Soda Can Top
36. Det Shunt
37. Aluminum Slag
38. Soda Can
39. Aluminum Slag
40. Foil
41. Soda Can
42. Foil
43. Aluminum Pull Tab
44. Vienna Sausage Can
45. Slag
46. Slag
47. Aluminum Slag
48. Foil
49. Foil
50. Aluminum disk 1"

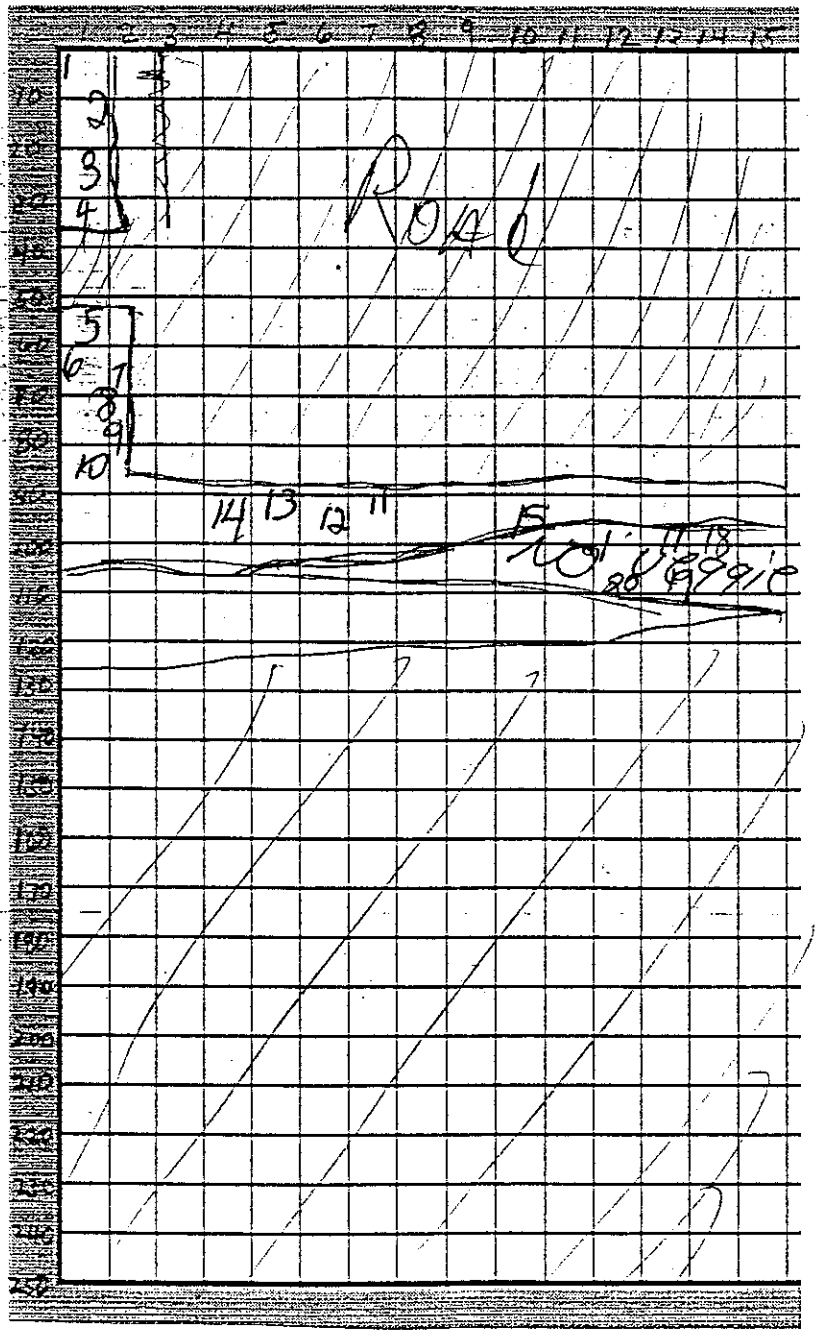
UXB International, Inc.

Job Name Port Ewen Project Leader Schuckert

Team Leader Cook Date 08/01/96

Comments: SWMU 38N

Lane 9



Time Start: 1500

Finish: 16:00

Total Manhrs: 2

Contacts — Live ✓

1. Slag
2. 20 1/4" Solid Copper Wire
3. Alum Slag
4. Cap
5. Alum Scrap
6. Alum Ring
7. Foil
8. Alum Ring
9. Alum Scrap
10. Cap
11. Copper Scrap
12. Mesh Wire
13. Det Shunt
14. Cap
15. Det Wire
16. Caps / Metal debris
17. Booster Cover
18. 2x12 L Bracket
19. Alum Scrap
20. Paper Mylar
21. ~~2" x 12" L Bracket~~
22. ~~Booster Cover~~
23.
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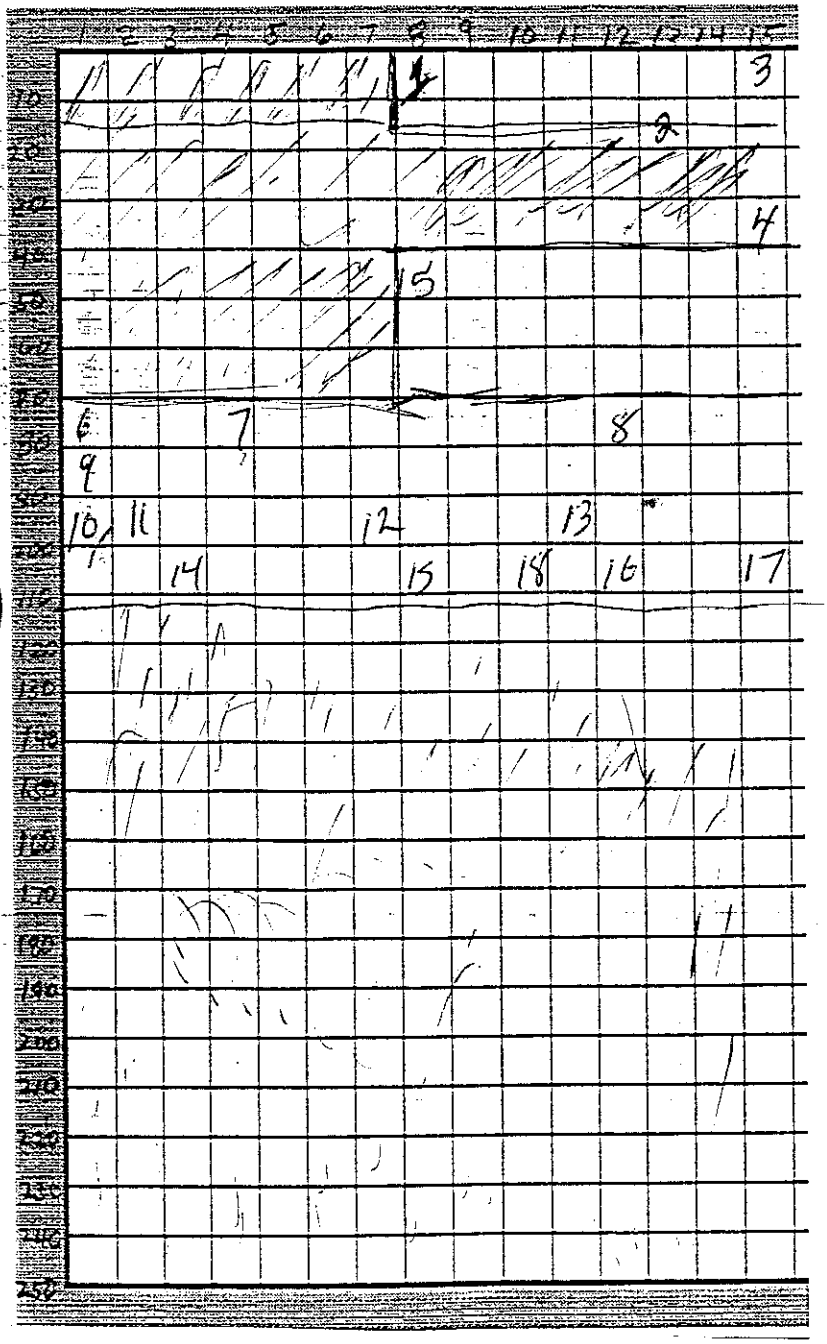
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader _____ Date 08/

Comments: SWMU 38N

LANE 10



111 ft

Time Start: 0915

Finish: 1015

Total Mnhrs: 2

Contacts

Live ✓

1. WIRE
2. ALUM CAN
3. FOIL
4. 2x3 METAL PLATE
5. ALUM CAN
6. ALUM JUNK
7. ALUM RING
8. JUNK
9. RING ALU
10. CUTTER
11. ALU JUNK
12. SHUNT
13. ALU JUNK
14. ALU TAB
15. ALU RING
16. FOIL
17. WIRE
18. FOIL
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UXB International, Inc.

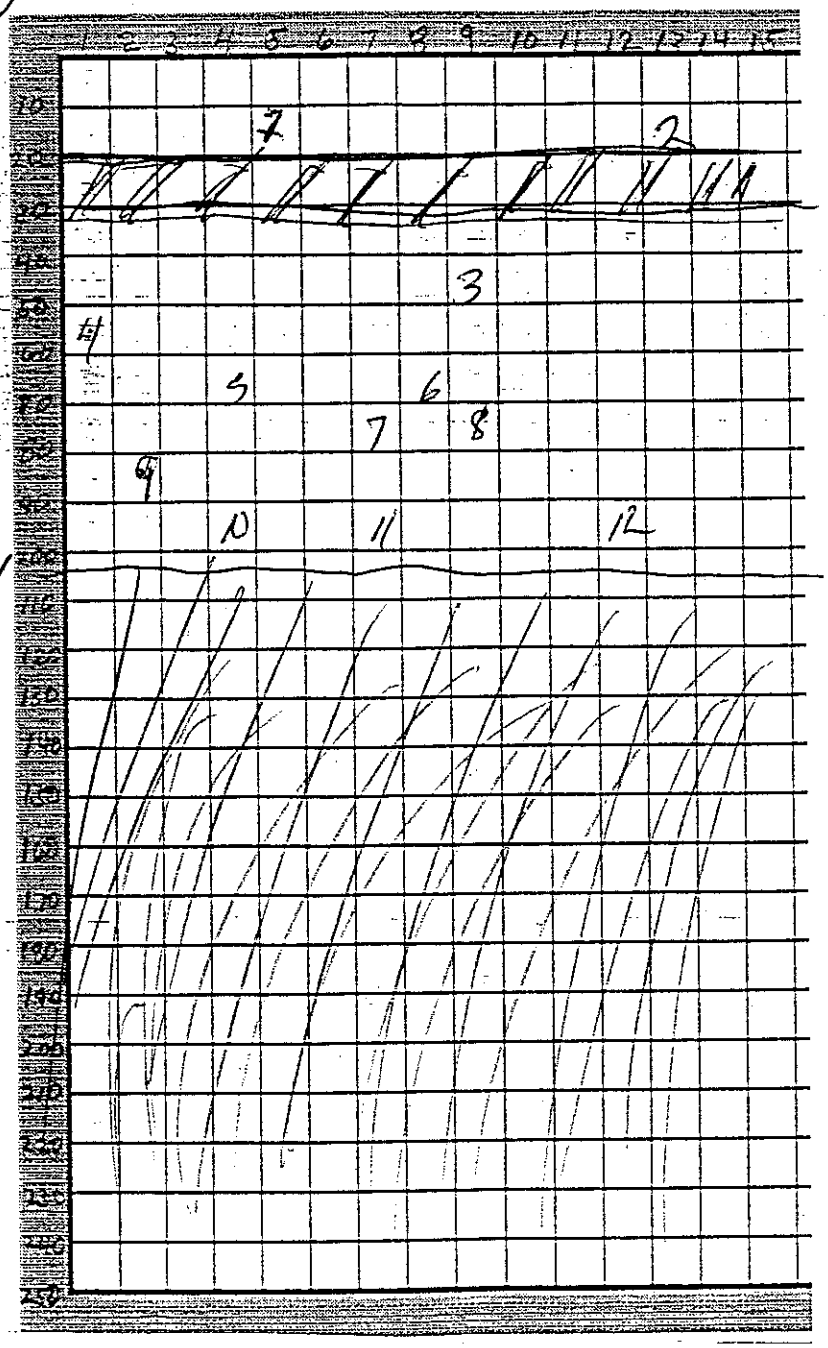
Job Name Port Ewen Project Leader Schucker

Team Leader _____ Date _____

Comments: Tom Ligon, Joe Cook

~~Grid #~~ SW MU 38N

LANE 11



Time Start: 1020

Finish: 1040

Total Minutes: 40

Contacts — Live ✓

1. AMU FOIL
2. AMU RING
3. A FOIL + 11 1/2" copper
4. A-TAPE
5. AM TAPE & RING
6. FOIL
7. AMU TRASH
8. METAL WIRE
9. AMU RING
10. NAIL
11. A TAG
12. ~~TAG~~ TAB
13.
14.
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UXB International, Inc.

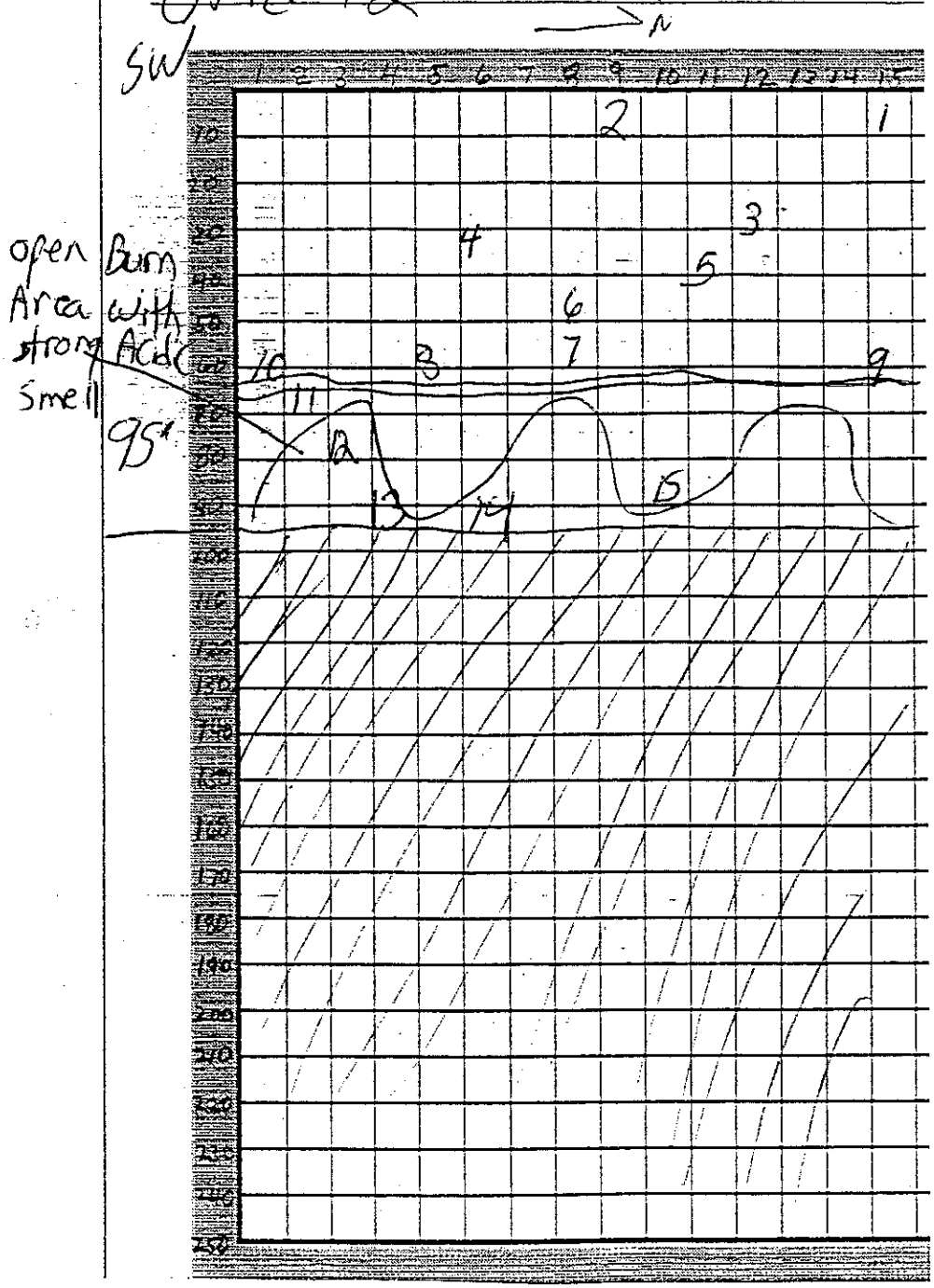
Job Name Port Ewen Project Leader Schucker

Team Leader _____ Date 8-2-96

Comments: Tom ligon, ToE Cook

Bud Trift SWMU 38N

~~Grid 12~~ LANE 12



Time Start: 10.45

Finish: 11.35

Total Mnhrs: ~~2.5~~ 1.40

Contacts

Live ✓

1. CAP
2. Slag
3. Metal debris
4. Foil
5. Alum Ring
6. 1/4 x 12" rod, metal
7. Nails
8. Nails
9. 1/2" Metal pipe Reducer
10. Nails
11. Alum Ring
12. Nails
13. Alum Ring / + wire
14. Alum Casing
15. Alum Ring
16.
17.
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UXB International, Inc.

Job Name Port Ewen Project Leader Schuckers

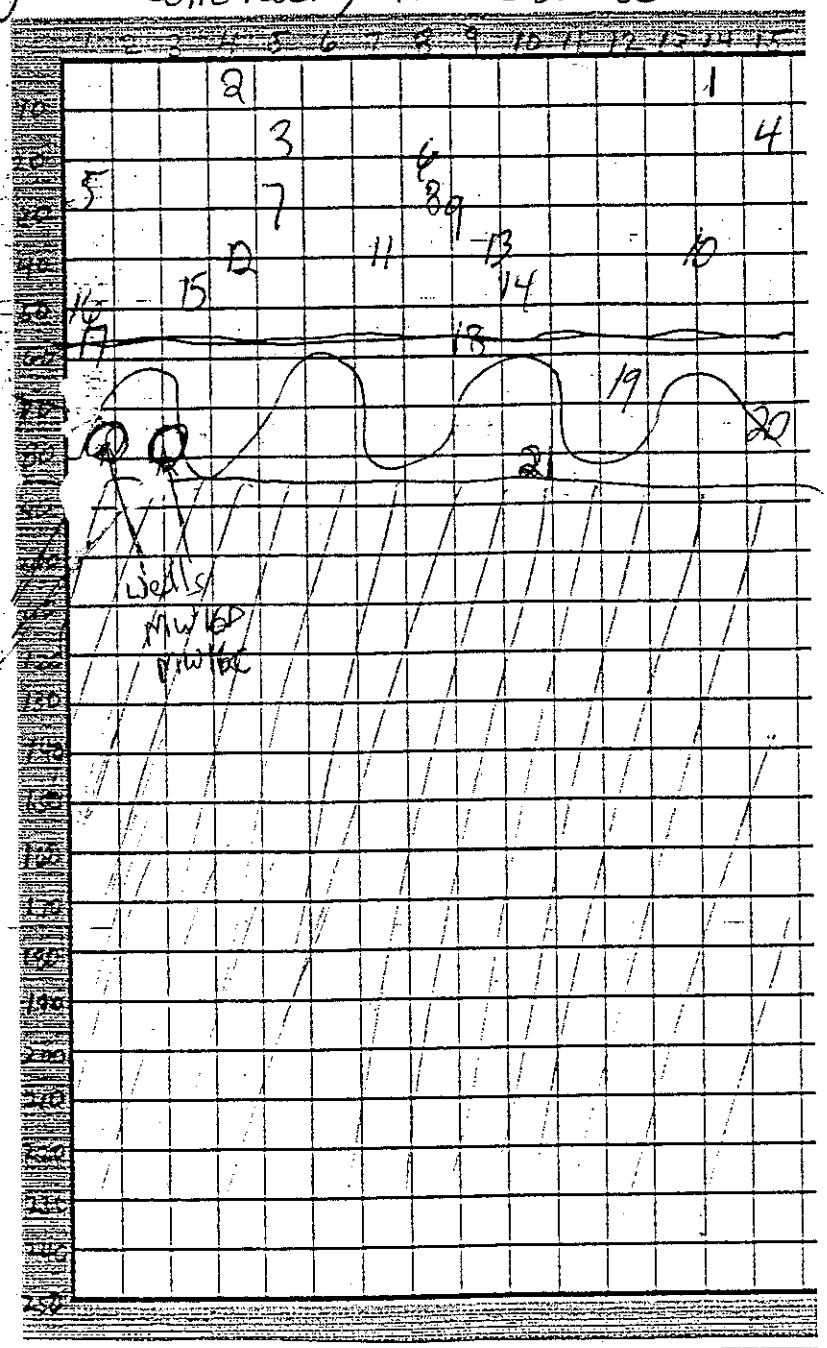
Team Leader _____ Date 8-2-96

Comments: Tom Ligon, Bud Thrift

SWMU 38N Joe Cook, Keith Schuckers

~~Grid~~ LANE 13 Solid reading from 29' to 57'

SW Solid reading from 52–85



Time Start: 11.00

Finish: 11.50

Total Mnhrs: 1.40 min

Contacts

1. Pop Can
2. Alum Strip
3. Slag
4. Asphalt
5. Foil
6. Metal Debris
7. S/Ag Alum
8. Slag
9. Metal debris
10. Nail
11. Metal Debris
12. Slag
13. Metal debris
14. Alum Disc
15. Alum Ring/Alum Tape
16. Nails
17. Metal Strip
18. Metal debris
19. Metal Disc Cap
20. Alum Ring
21. Cap
22.
23.
24.
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UXB International, Inc.

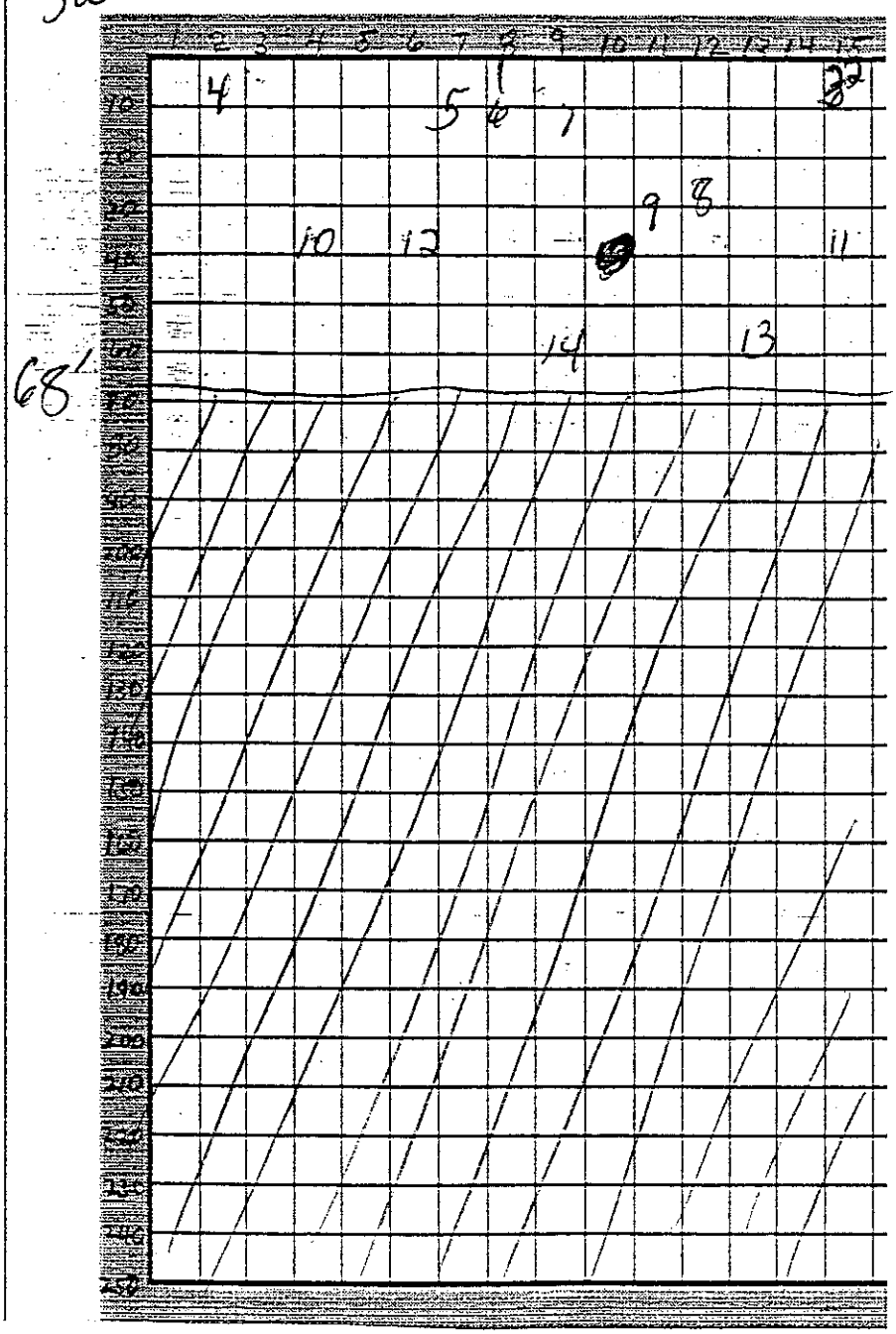
Job Name Port Ewen Project Leader Schucker

Team Leader _____ Date 8-2-96

Comments: Tom ligon Bud Thrift, JoE Cook SWMU 38N

~~Grid 14~~ LANE 14

SW



Time Start: 1120

Finish: 1150

Total Mnhrs: 1

Contacts Live ✓

1. Alum debris
2. Alum pie plate
3. Alum pie plate
4. 2½ Alum disk
5. foil
6. CAP
7. Shunt
8. foil
9. foil
10. foil
11. Metal debris
12. foil
13. foil
14. 1½" x 8" x 1/4 Metal plate
15.
16.
17.
18.
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22.
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25.
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UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

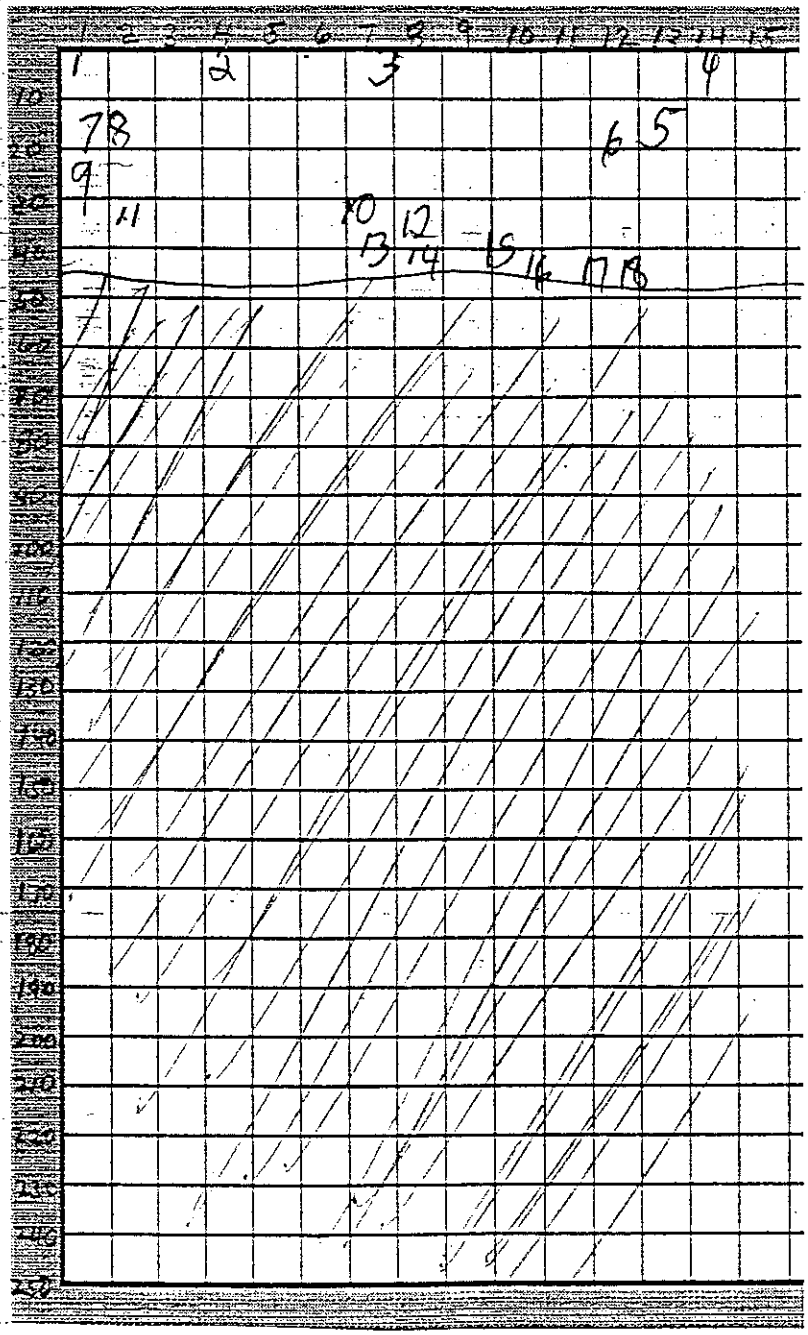
Team Leader Date 8-2-96

Comments: Tom ligon Bud Thrift

JOE Cook SW MU 38N

~~Grid 15~~ LANE 15

SW



45'

Time Start: 12:30

Finish: 13:10

Total Mnhrs: 1.20 min

Contacts

Live ✓

1. foil
2. Reflector
3. foil
4. foil
5. foil
6. Tap Top
7. foil
8. foil
9. Alum Ring
10. foil
11. Metal debris
12. Soda can
13. foil
14. foil
15. light bulb base
16. Alum Ring
17. Alum Ring
18. Alum Ring
19.
20.
21.
22.
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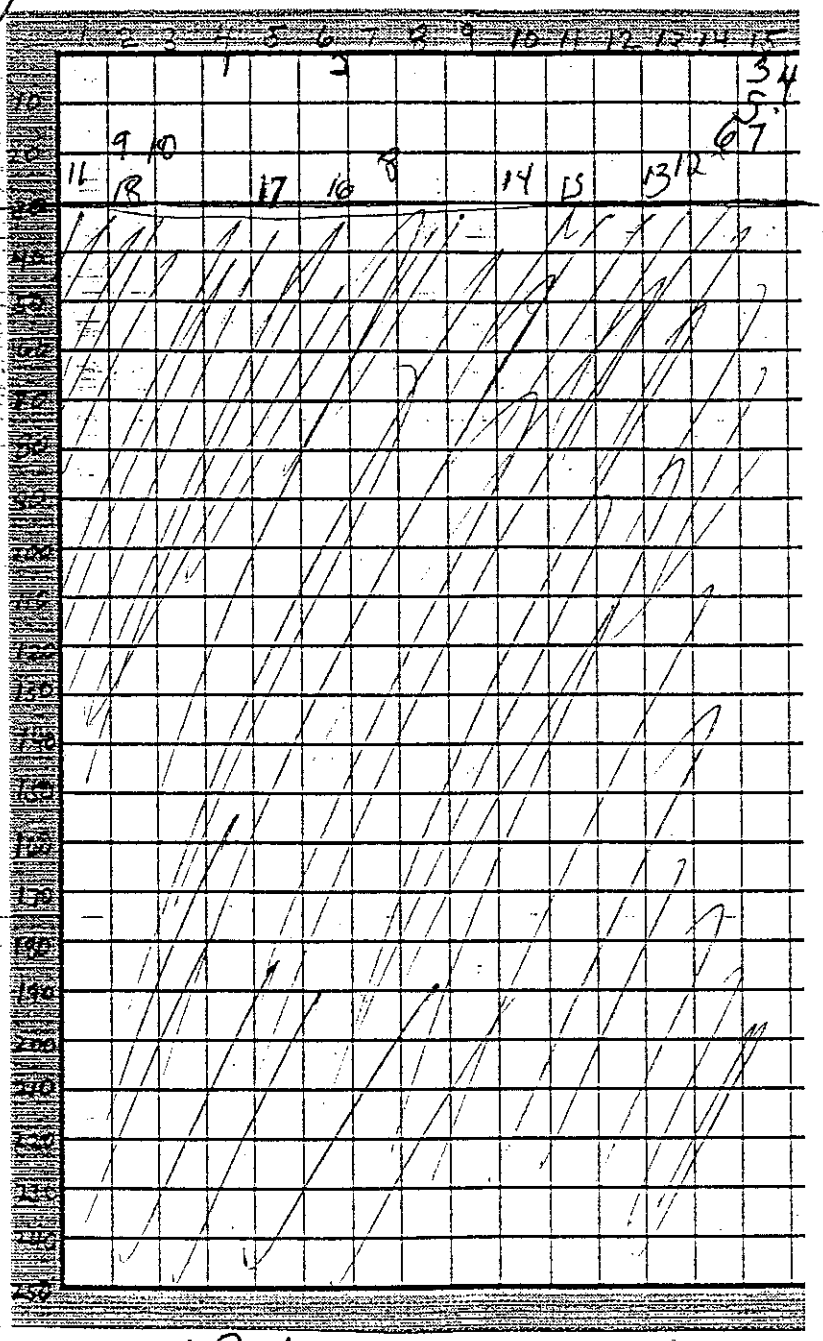
UXB International, Inc.

Job Name Port Ewen Project Leader Schuckert

Team Leader _____ Date _____

Comments: Tom Ligon Bad Thrift
Joe Cook SMWW 38N
Grid #6 LANE 16



Time Start: 13,10

Finish: 13,48

Total Manhrs: 1

Contacts — Live ✓

1. Det Shunt
2. Det Shunt
3. Alum Ring
4. foil
5. foil
6. Alum Scrap
7. Pipe fitting 3/4
8. Mower Air filter Housing
9. Tail light Bracket
10. Det Shunt
11. Metal debris
12. 1½ x 2 x 3 x 3/8 Alum pl
13. Det Shunt
14. foil
15. foil
16. Nail
17. Det Shunt
18. Roll Alum Tape
19.
20.
21.
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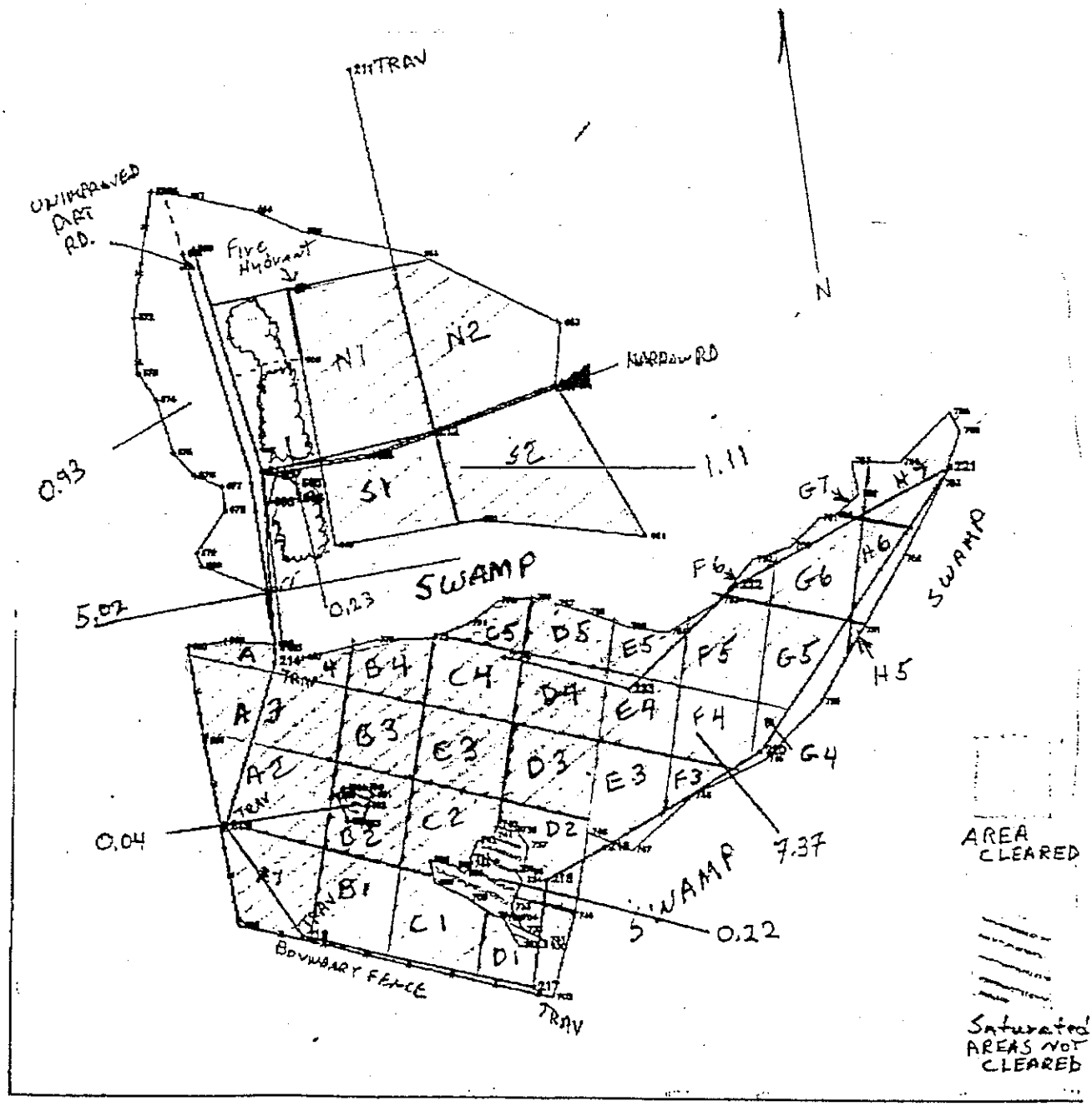
APPENDIX K

SWMU 38S - GRENADE DISPOSAL AREA SOUTH

SWMU 38S

SUSPECTED GRENADE DISPOSAL AREA (SOUTH), CONSISTS OF APPROXIMATELY 10 ACRES OF LAND.



SUMMARY OF ACTIVITIES FOR SWMU 38S

The implementation of the ICM work plan for SWMU 38S consisted of dividing the area into 36 grids, approximately 110 by 110 feet, which covered the 10 acre area. Each grid was swept with metal detectors, and approximately 50 anomalies from each grid were flagged, dug up and identified. Hundreds of caps were uncovered in the southern most section along an old creek bed. This area is shown as part of grids C2, D2, C1, and D1 (see map). Other areas yielded aluminum cans, scrap metal, nails, and slag (see data sheets from each grid). There was no evidence of grenade or grenade parts found during this investigation. All potentially explosive material was placed into five gallon pails and turned over to Dyno-Nobel. All scrap metal was collected in one-55 gallon poly drum and turned over to Dyno-Nobel.



Blasting Caps

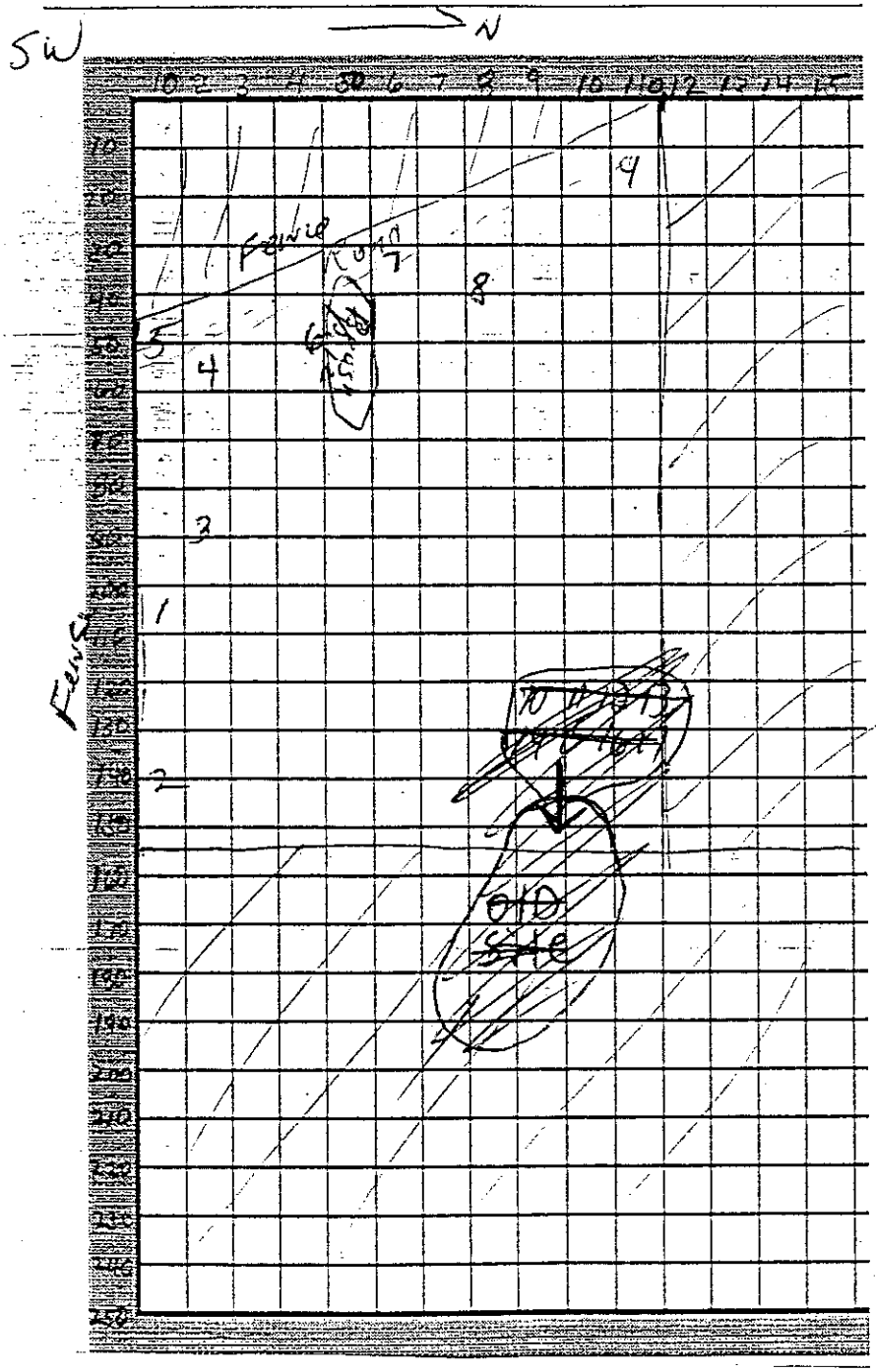


UXB International, Inc.

Job Name Port Ewen Project Leader Schuckert

Team Leader THRIFT Date 08/06/96

Comments: 38BA1 90% wooded



Time Start: 0700

Finish: 0900

Total Mines: 6

Contacts Live ✓

1. Bottle Cap
2. 1" x 1" x ¼ steel Plate
3. Pre Extrusion Cap
4. Fence Wire
5. Foil
6. Tab Top
7. Foil
8. Pre Extrusion Cap
9. Military Button
10.
11.
12.
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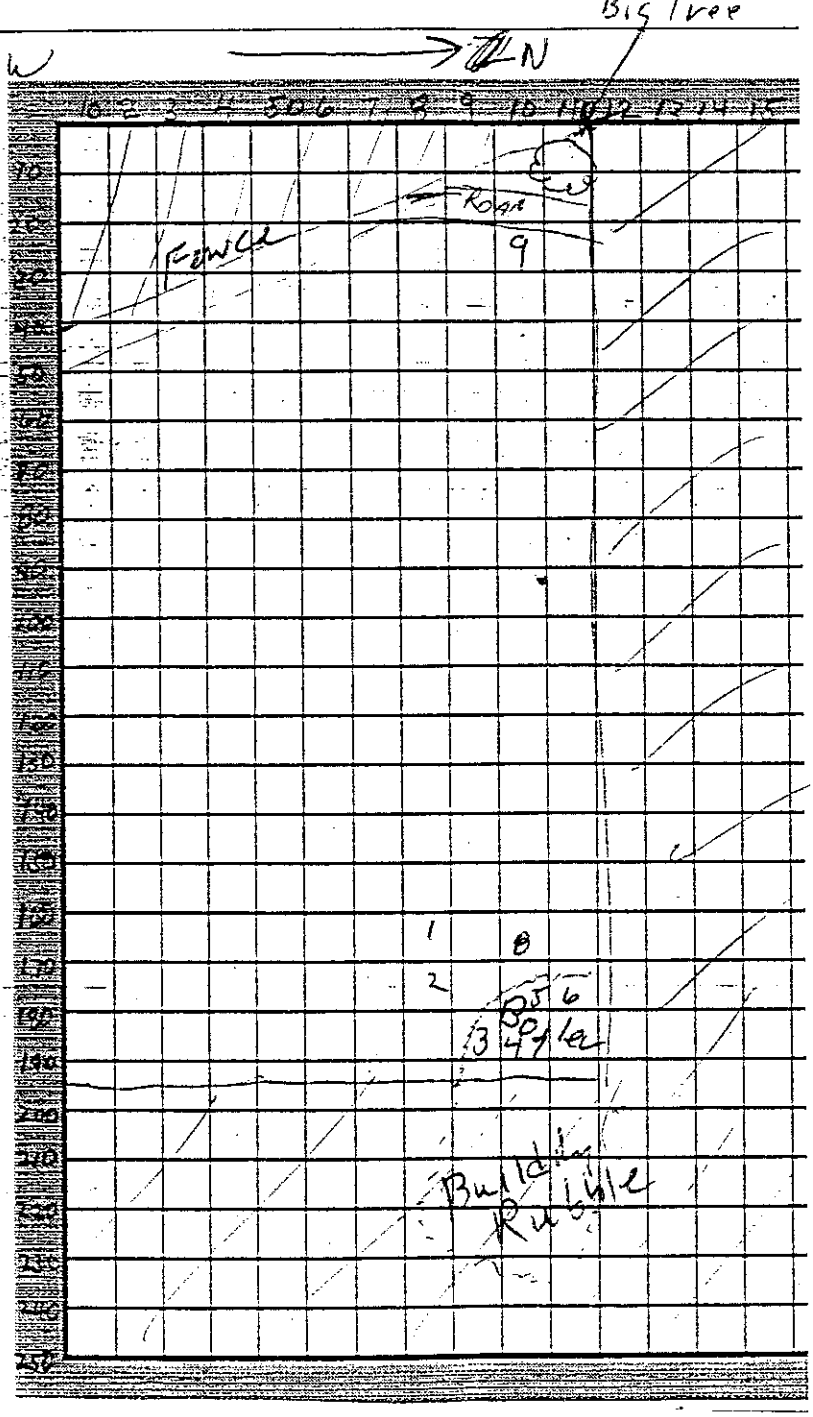
UXB International, Inc.

Job Name Port Ewen Project Leader Schuecker

Team Leader ~~Ellison~~ Date 08/04/94

Comments: 3885A2 Part of old Buildings IN NE Corner 95% located



Time Start: 0900

Finish: 1100

Total Manhrs: 6

Contacts Live ✓

1. Gas Manifold parts
2. " " "
3. " " "
4. " " "
5. " " "
6. CAP ✓
7. Slag
8. Pre Extrusion CAP
9. CAP Scrap
10.
11.
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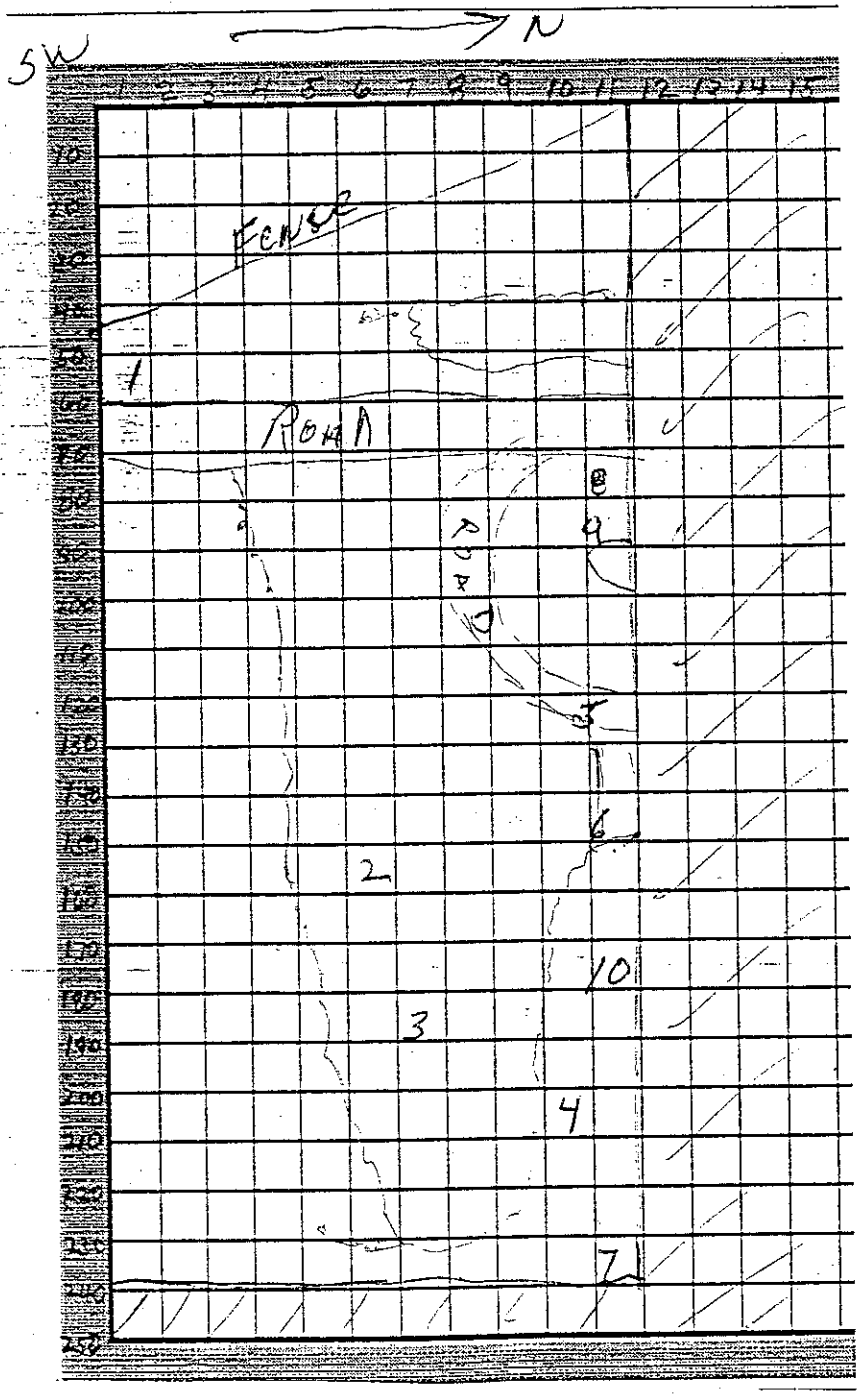
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader Ligon Date 08/06/96

Comments: 38 S-A3



Time Start: 1400

Finish: 1630

Total Mnhrs: 7.5

Contacts Live ✓

1. Soda Can
2. Aluminum Scrap
3. Slag
4. Slag
5. Slag
6. Foil
7. Scrap Metal in Mound
8. Lead scrap with Ash
9. Copper Wire Melted
10. 2x2x½ scrap metal
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.
21.
22.
23.
24.
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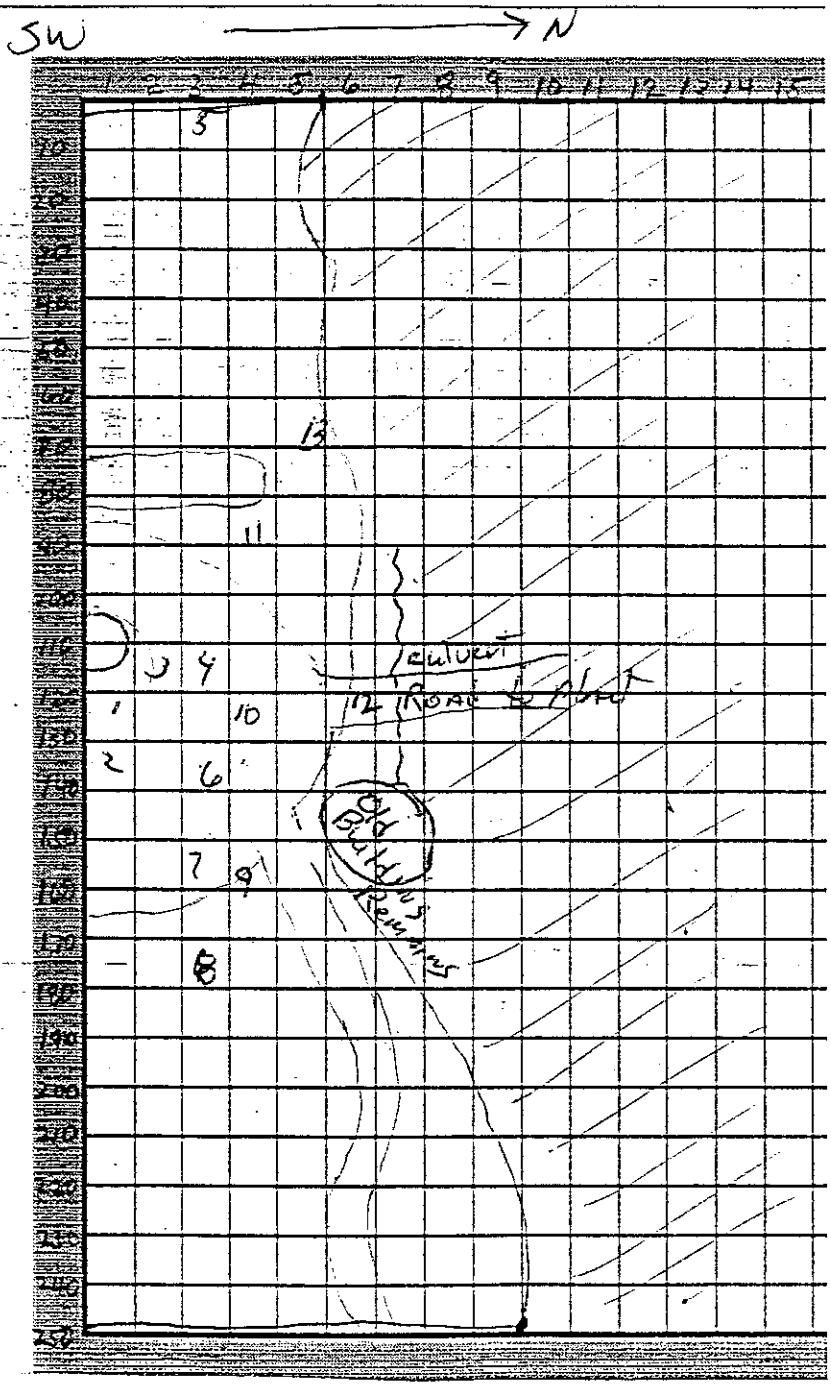
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader _____ Date 08/07/96

Comments: 38-A4



Time Start: 0730

Finish: 0930

Total Manhrs: 6

Contacts — Live ✓

1. Aluminum scrap
2. 1" dia x 3" ukn
3. Foil
4. Aluminum Scrap
5. Aluminum Pie Pan
6. CAP scrap
7. CAN
8. CAN
9. 2" x 5/8" dia Rebar
10. Det Shunt
11. Foil
12. CAP scrap
13. Slag
14.
15.
16.
17.
18.
19.
20.
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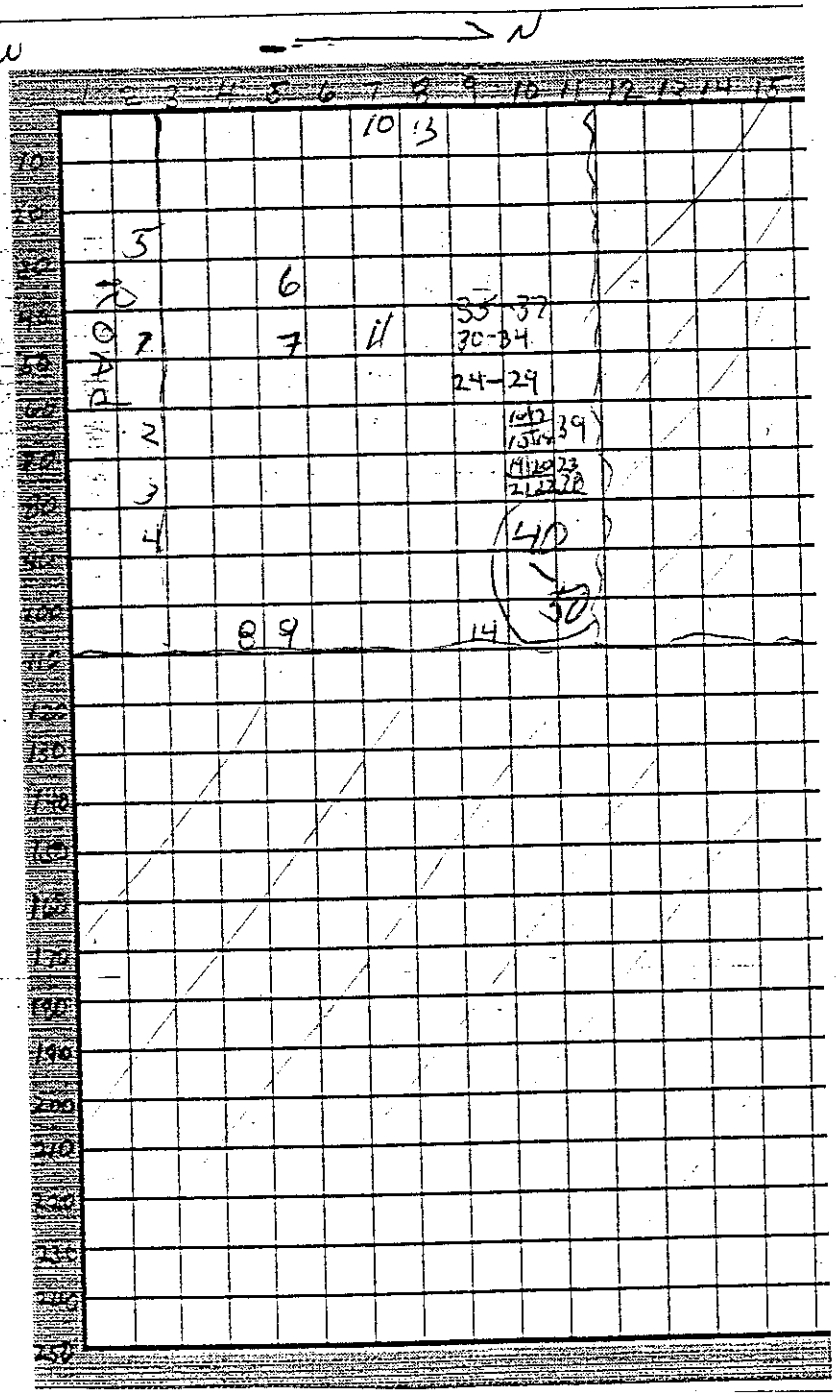
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader Cook Date 08/07/96

Comments: SWMU 385-B1



Time Start: 0930 - 1630 1330 - 1630

Finish: 1630

Total Manhrs: 15

Contacts — Live ✓

1. Soda Can
2. Det
3. Nail
4. Nail
5. Scrap steel
6. Cap Scrap
7. Penny
8. PRE CAP EXTRUSION
9. Scrap Steel
10. CAP
11. 3 Pre Cap Extrusions
12. Lead bullet
13. CAP Scrap
14. CAP
15. CAP
16. CAP
17. CAP
18. CAP Scrap
19. CAP Scrap
20. CAP Scrap
21. Pre Cap Extrusion
22. " " "
23. " " "
24. " " "
25. " " "
26. " " "
27. " " "
28. " " "
29. " " "
30. CAP SCRAP
31. " "
32. " "
33. " "
34. " "
35. CAP
36. "
37. "
38. 4 Pre Cap Extrusion
39. 4 Cap Scrap
40. 8 Cap Scrap
41. 1 CAP
42. Pre Cap extrusion
43. " " "
44. " " "
45. " " "
46. " " "
47. " " "
48. " " "
49. 1 Lead Slug
50. Wire

UXB International, Inc.

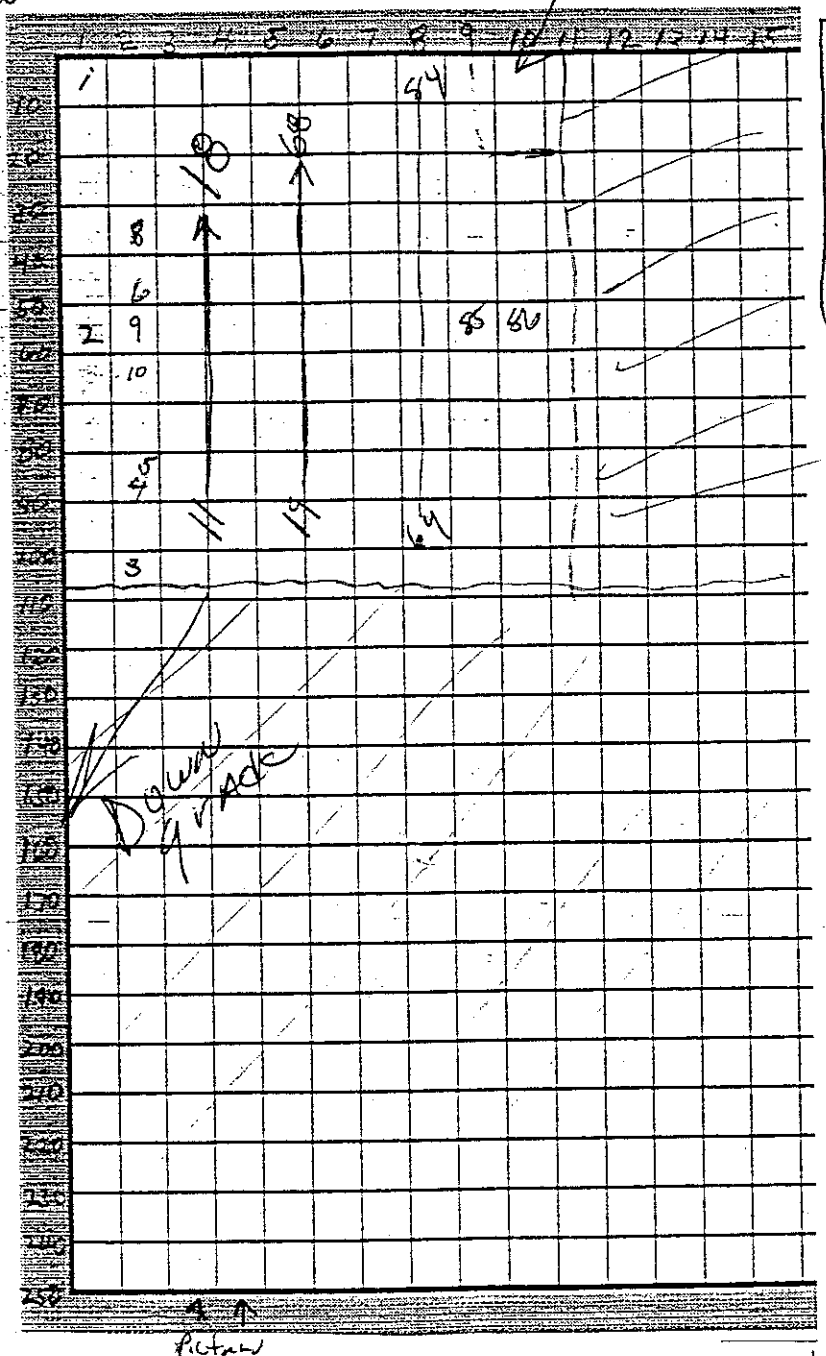
Job Name Port Ewen Project Leader Schuckert

Team Leader Ligon Date 8/8/94

Comments: SWMU 385-B2

Picture # 16 of 15 Demolished Building

SW → N



Contacts — Live ✓

1. Cap
2. "
3. "
4. Metal 2"x1"
5. Pipe Cap Extrusion
6. Gas Fitting
7. Soda Can
8. Cap
9. Cap
10. Pipe Cap Extrusion
11. " Cap SCRAPS
12. 14 Caps
13. 16 Pipe Cap Extrusion
14. 10 lbs melted pot metal
15. Wire
16. 4' section 1" pipe
17. 4 small pieces of scrap lead
18. 1 Nail
19. Cap SCRAP
20.
21.
22.
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Large Bag

Time Start: 1130 – 1230 2 Laborers 0730-1130 2 hrs + 2 hr + 2 hr

Finish: 1030 16 Amp

Total Manhrs: 21

Lighter blasting caps may have been washed down grade

See Attached Sheet

SWMU 385-B2

51 Smashed cap
52 Aluminum Slag
53
54
55
56
57
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61
62
63
64
65
66
67
68
69 SLAG
70 GAS VALVE
71 CAP
72 GAS Valve
73 CAP
74 SLAG
SLAG
SLAG
77 SLAG
78 SLAG
79 SLAG
80 NAIL
81 NAIL
82 NAIL
83 NAIL
84 Scrap Metal
85 SLAG
86 SLAG
87
88
89
90
91
92
93
94
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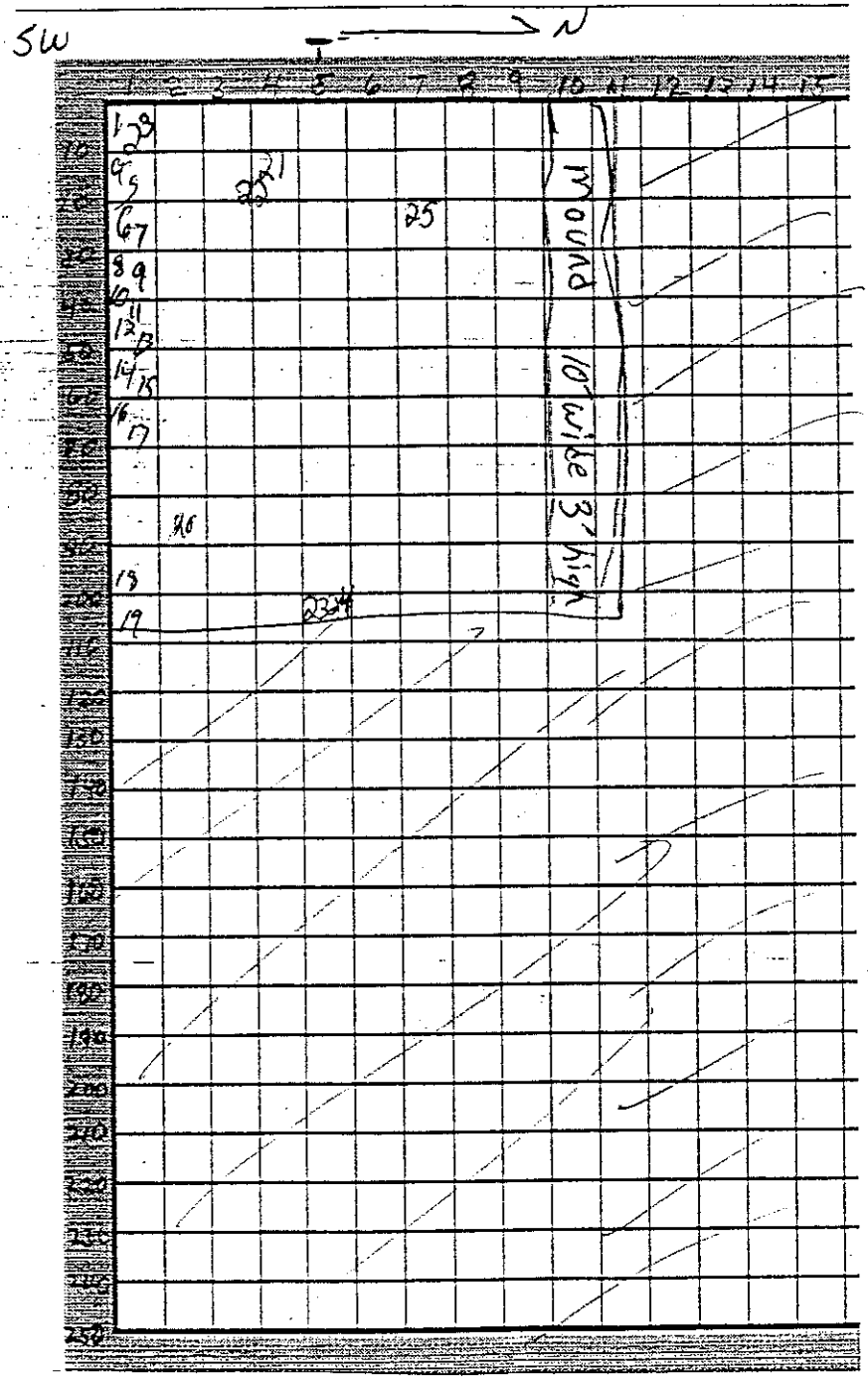
98
99
100

UXB International, Inc.

Job Name Port Ewen Project Leader Schuckert

Team Leader Cook Date 8/16/96

Comments: SWMU 385 B3



Time Start: 1030

Finish: 1400

Total Manhr: 10.5

Contacts — Live ✓

1. Rock
2. Rock
3. Rock
4. Scrap Metal
5. Rock
6. Rock
7. Pipe
8. Rock
9. Rock
10. Rock
11. Rock
12. Rock
13. Rust
14. Rock
15. Rock
16. Scrap metal
17. Rock
18. Nail
19. nail
20. Rock
21. dirt
22. dirt
23. foil
24. foil
25. Rock
26.
27.
28.
29.
30.
31.
32.
33.
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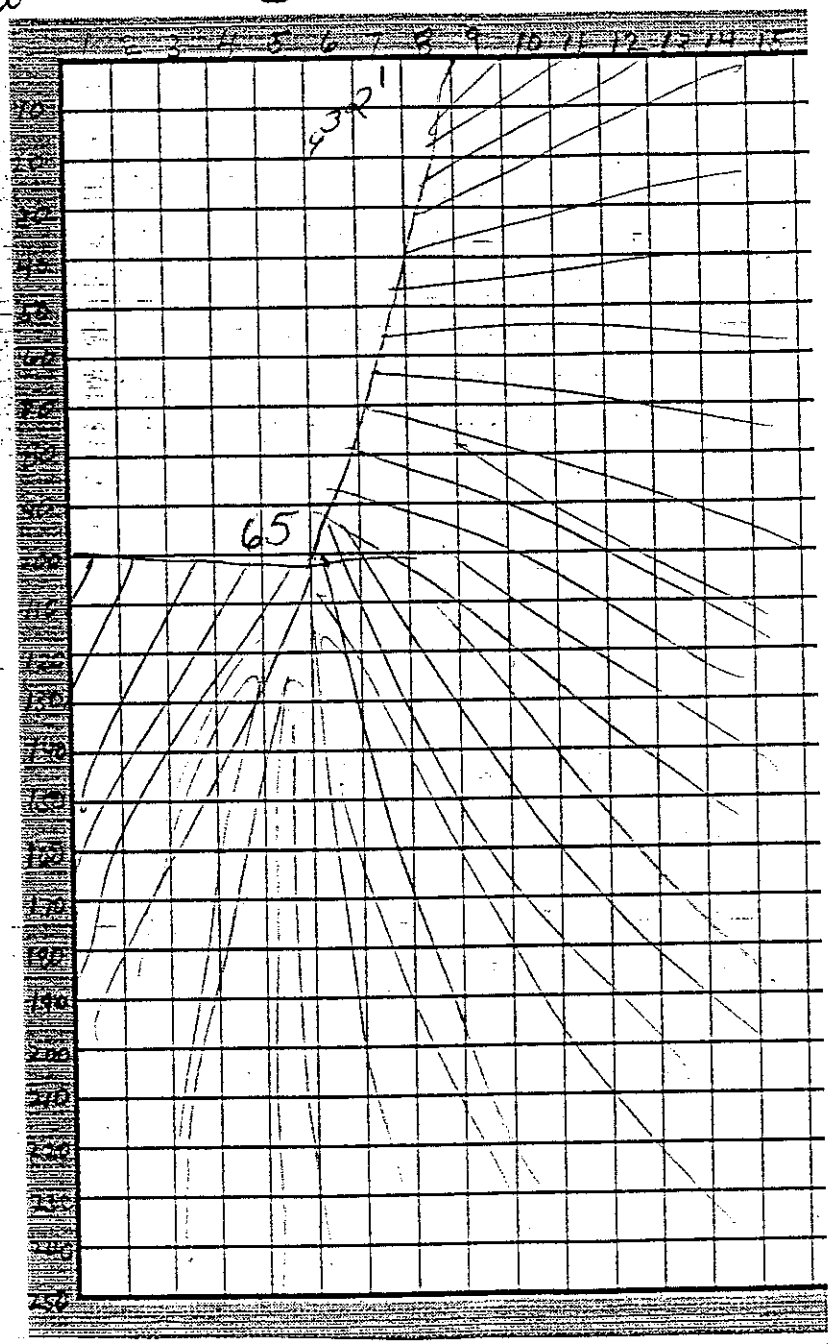
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader Cook Date 8-19-96

Comments: SWMU 385 B4

SW → N



Time Start: 11.00

Finish: 12.30

Total Mnhrs: 4.5

Contacts — Live ✓

1. Rust
2. Nail debris
3. metal debris
4. metal debris
5. metal debris
6. Nail debris
7.
8.
9.
10.
11.
12.
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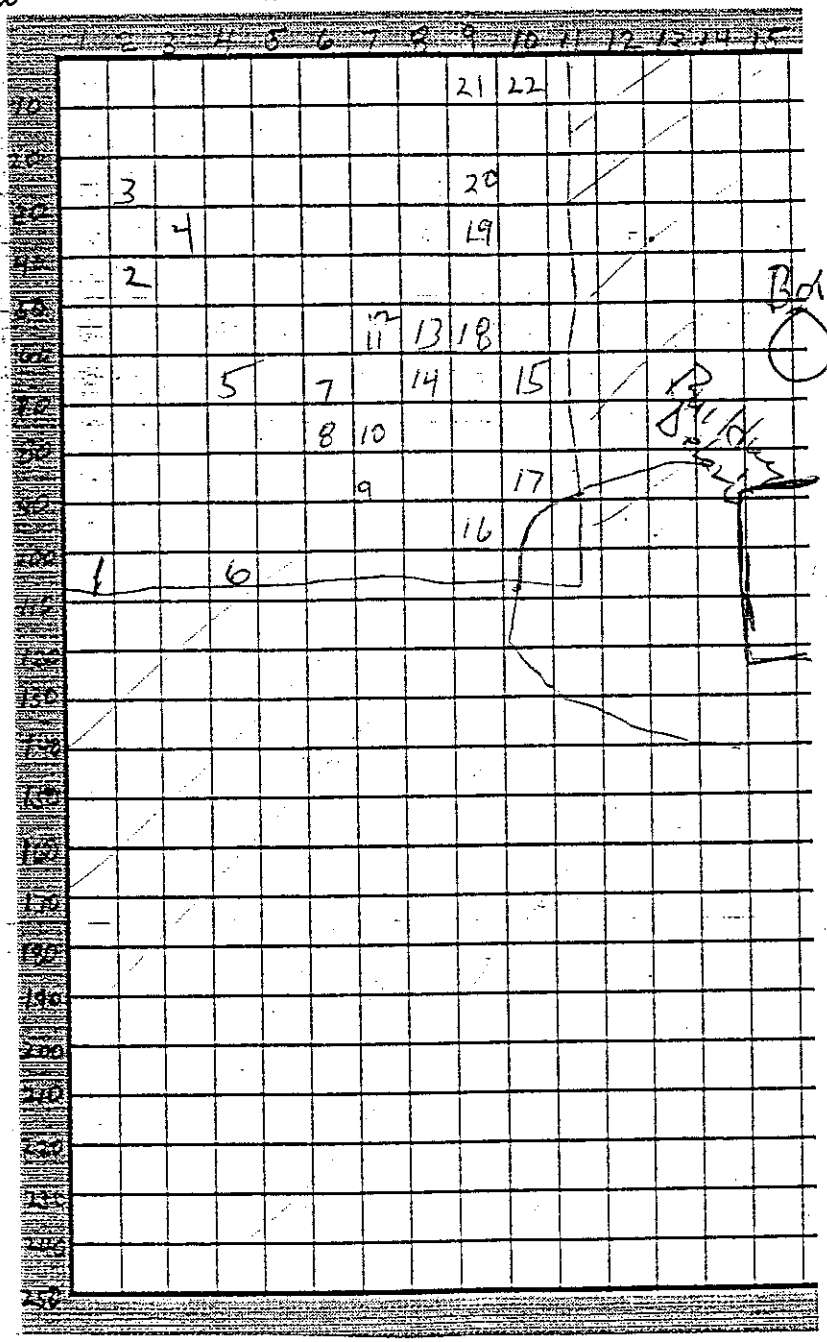
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader THRIFT Date 8/19/96

Comments: SWMU 305-C1

SW → N



Time Start: 12:30

Finish: 1500

Total Manhrs: 7.5

Roy came down to look at the mess

Contacts — Live ✓

1. Scrap Metal
2. Shovel
3. Det ✓
4. Scrap metal
5. Scrap metal
6. Thermal Guage
7. CAP ✓
8. CAP ✓
9. Pre Cap Extrusion
10. " " "
11. Foil
12. Beer Can
13. PreCap Extrusion
14. " " "
15. " " "
16. Cap ✓
17. Cap ✓
18. 4 CAP ✓
19. CAP Scrap
20. Cap ✓
21. Cap ✓
22. Cap ✓
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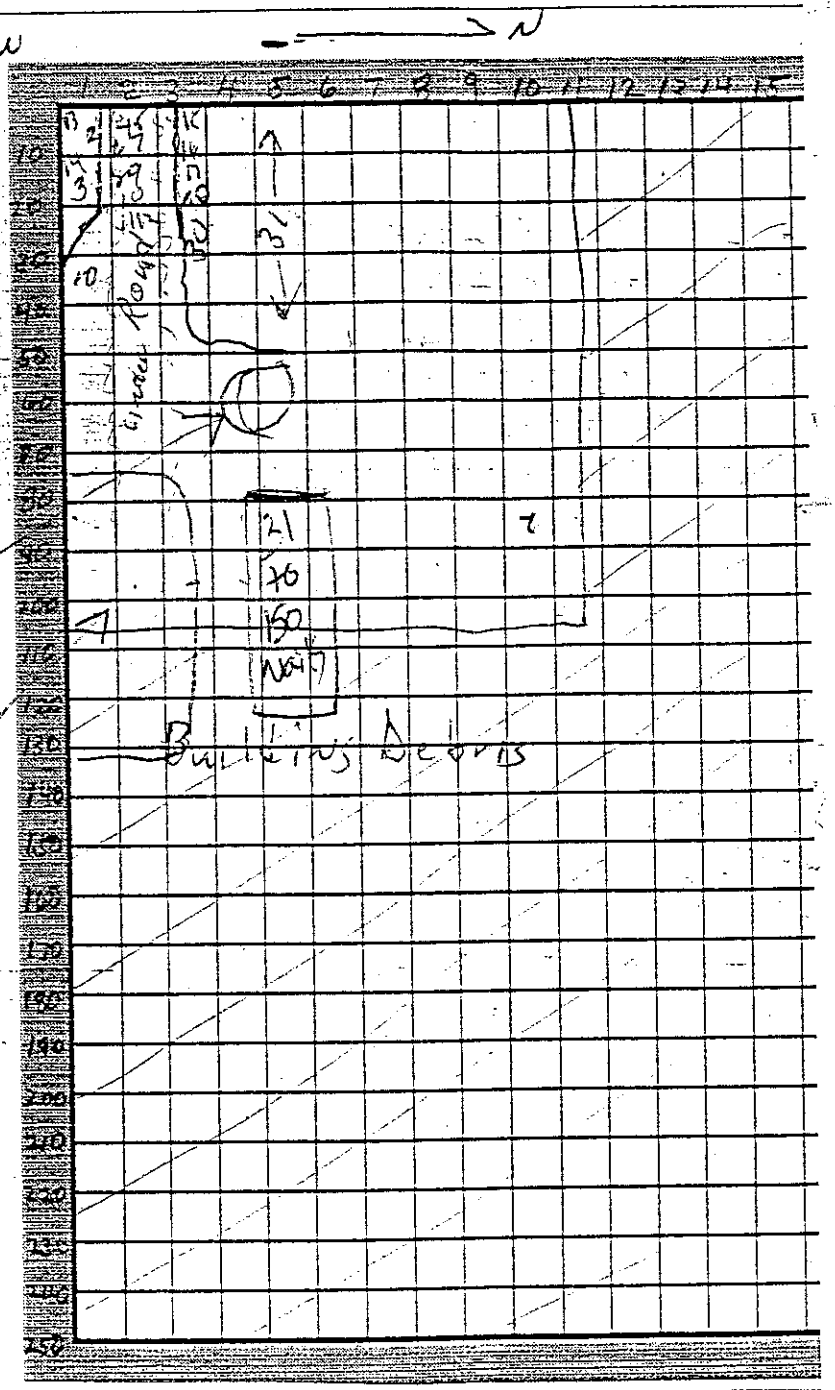
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader THRIFT Date 8/19/94

Comments: SWMU 385 - C2



Time Start: 1500 - 1600 0900 -

Finish:

Total Mnhrs:

Contacts Live ✓

1. CAP SCRAP
2. CAP SCRAP
3. CAP
4. CAP SCRAP
5. CAP
6. CAP
7. BATT SCRAP (Lead Acid
8. CAP
9. CAP
10. CAP
11. CAP SCRAP
12. CAP SCRAP
13. CAP SCRAP
14. CAP SCRAP
15. CAP
16. FROM 80 TO 110 SATURATED
17. LOAM (1)
18. FROM 80 TO 110 SATURATED
19. LOAM (2)
20. CAP
21. CAP
22. CAP
23. CAP
24. CAP
25. CAP
26. CAP
27. 4" Cap (Booster)
28. CAP SCRAP
29. CAP SCRAP
30. STAT
31. NAILS (140)
32. ALL
33.
34.
35.
36.
37.
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50. NAIL through 150 NAILS

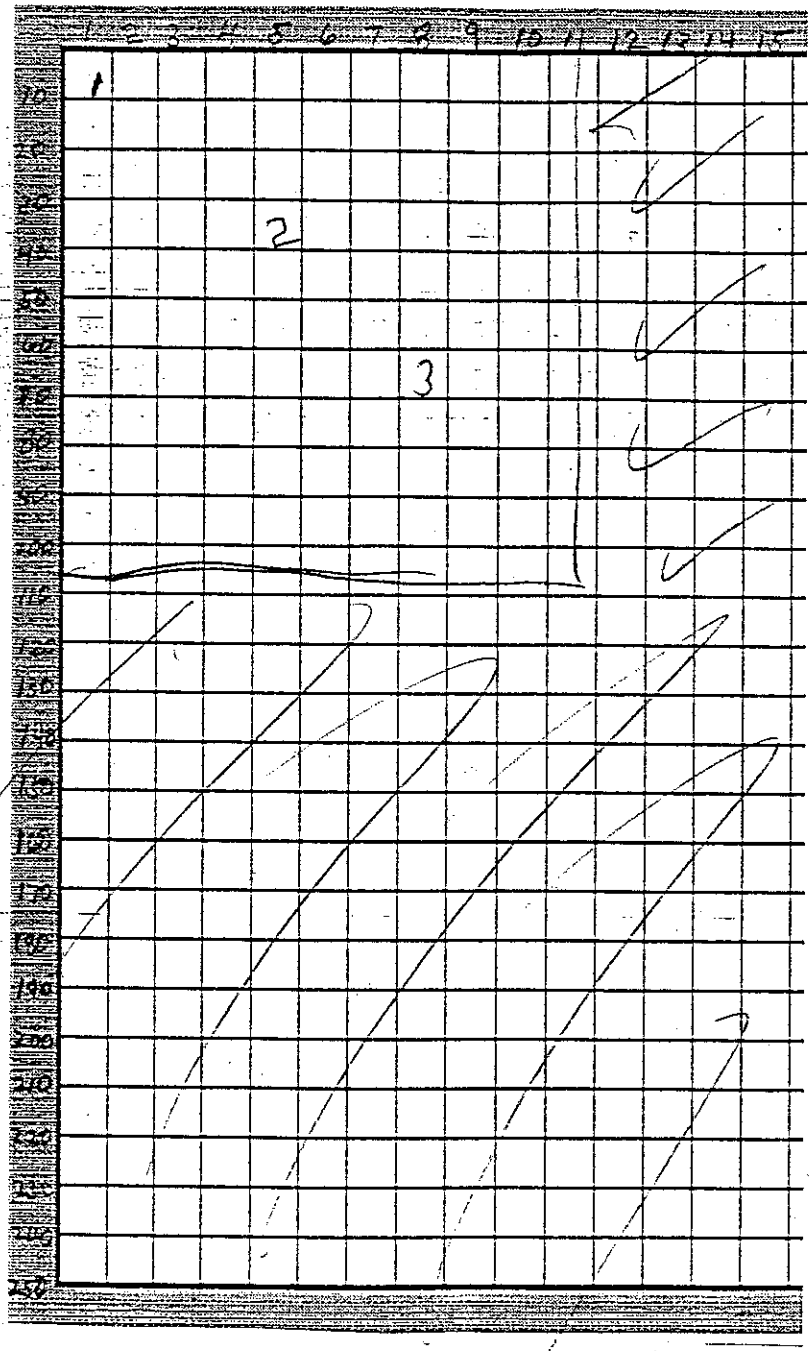
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader COOK Date

Comments: SWMU 38S C 3

SW → N



Time Start: 1100 – 1200 BRUSHOUT 2MH

Finish: 1200 1400 SWEEP

Total Mnhrs: 6

Contacts Live ✓

1. CAP
2. Nail
3. Nail
4.
5.
6.
7.
8.
9.
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11.
12.
13.
14.
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UXB International, Inc.

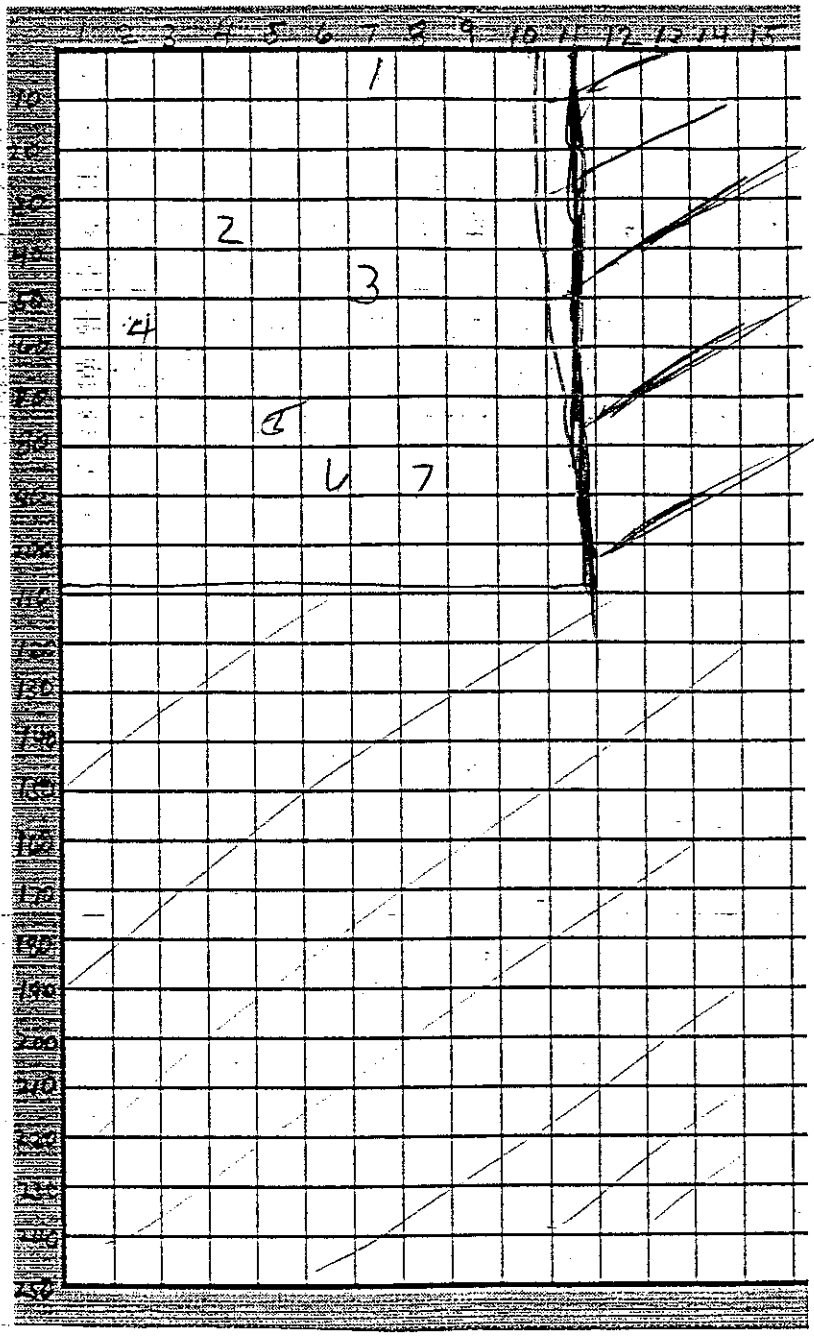
Job Name Port Ewen Project Leader Schuckert

Team Leader Ligon Date 08/21/94

Comments: SWMU 38S C4

Partially mowed area

SW → N



Time Start: 1400

Finish: 1600

Total Munits: 6

Contacts	Live ✓
1. Cap	
2. Nail	
3. Char	
4. rifle Cartridge	
5. Scrap metal	
6. Scrap metal	
7. Scrap metal	
8.	
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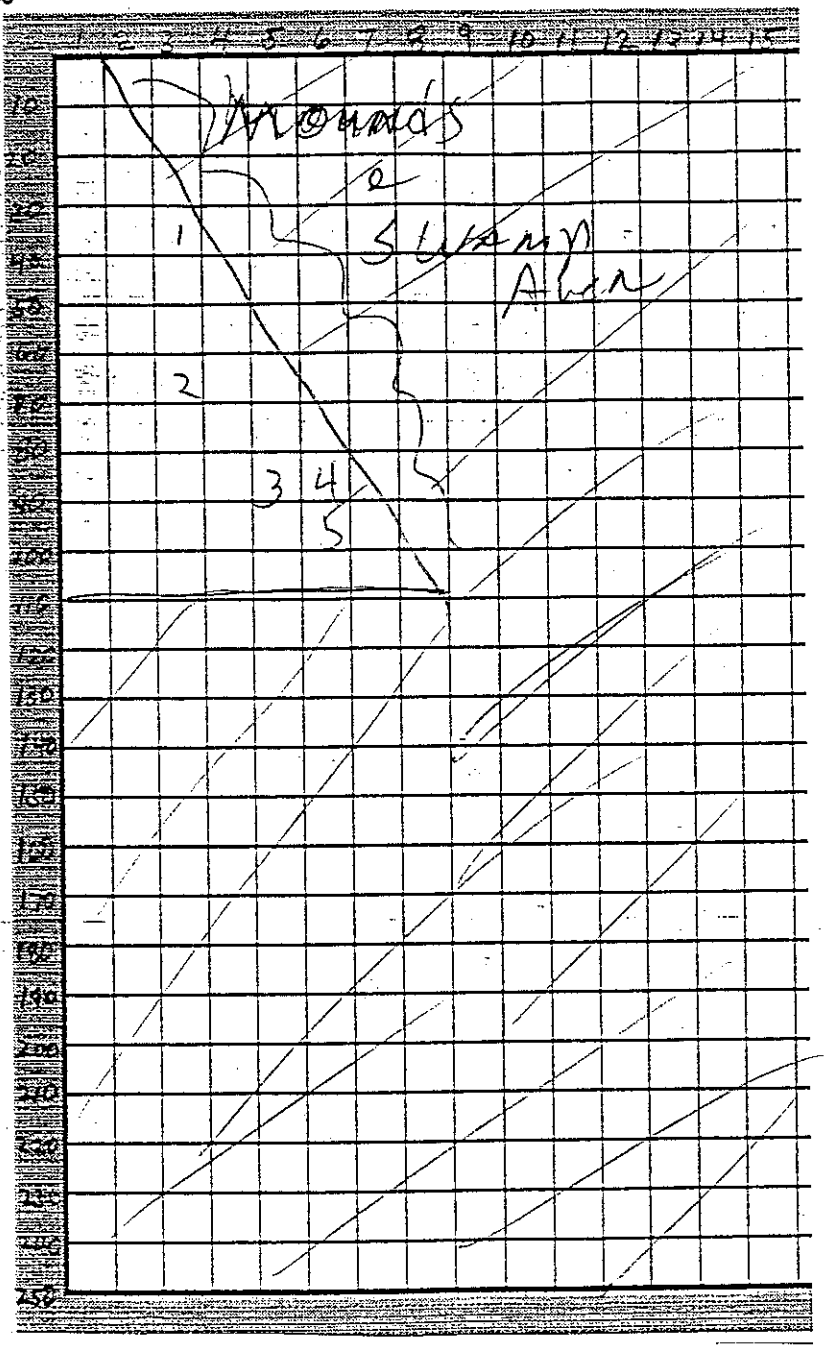
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader Licon Date 8/21/94

Comments: SWMU 385-CJ

SW → N



Time Start: 1600

Finish: 1700

Total Anhrs: 3

Contacts — Live ✓

1. Soda Can
2. Soda Can
3. Tube of RTV (Silicone)
4. Sun Glasses
5. Ring
6.
7.
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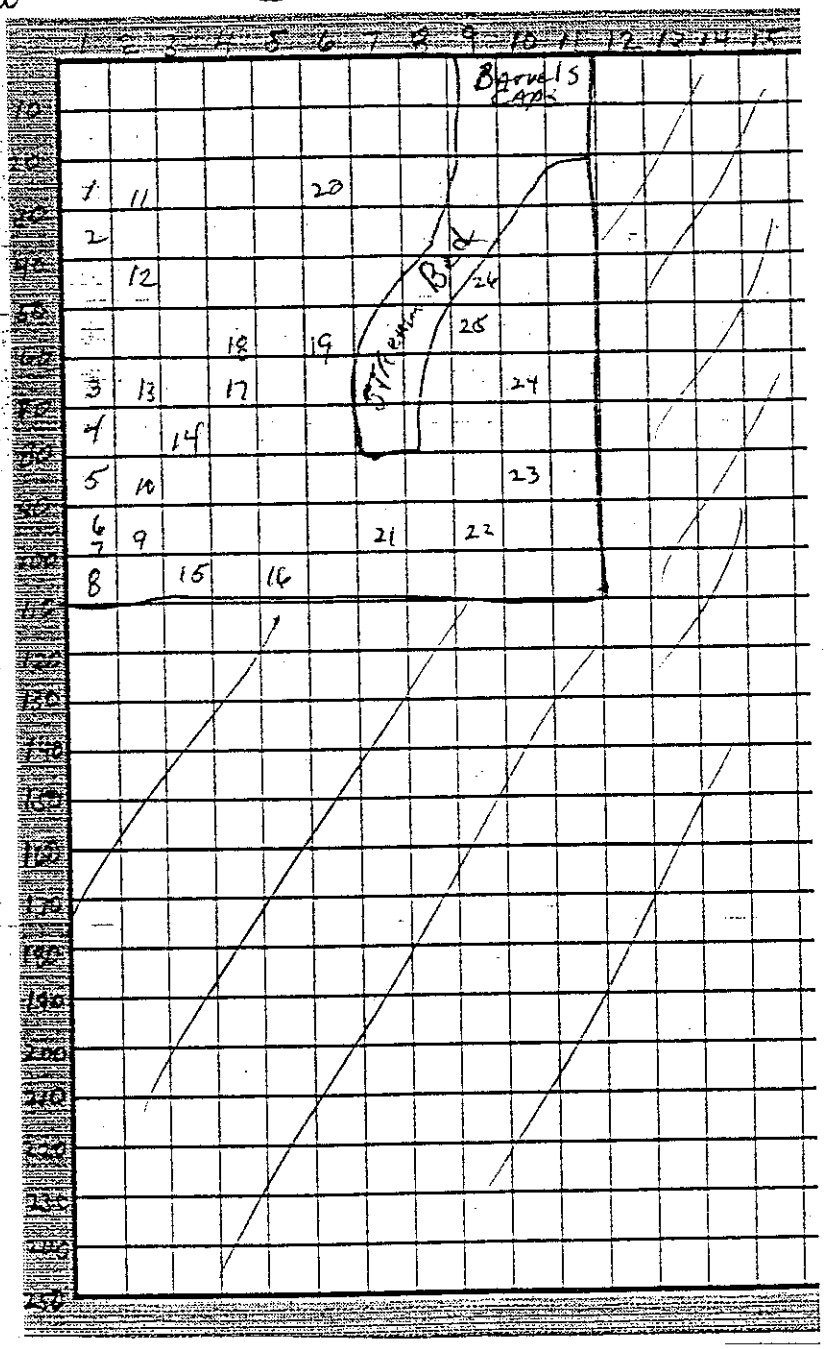
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader THRIFT Date 08/29/96

Comments: SWMU ~~28~~ 385 D1

SW → N



Time Start: 1200

Finish: 1530

Total MNHR: 10.5

Contacts — Live ✓

1. Barb Wire
2. "
3. "
4. "
5. "
6. "
7. Cap Scrap
8. Cap
9. Barb Wire
10. Cap Scrap
11. Cap
12. Pve Cap Extrusion
13. Cap
14. Cap
15. Barb wire
16. Cap Scrap
17. Cap
18. "
19. "
20. "
21. "
22. "
23. Cap Scrap
24. Cap Scrap
25. Cap
26. Cap
27.
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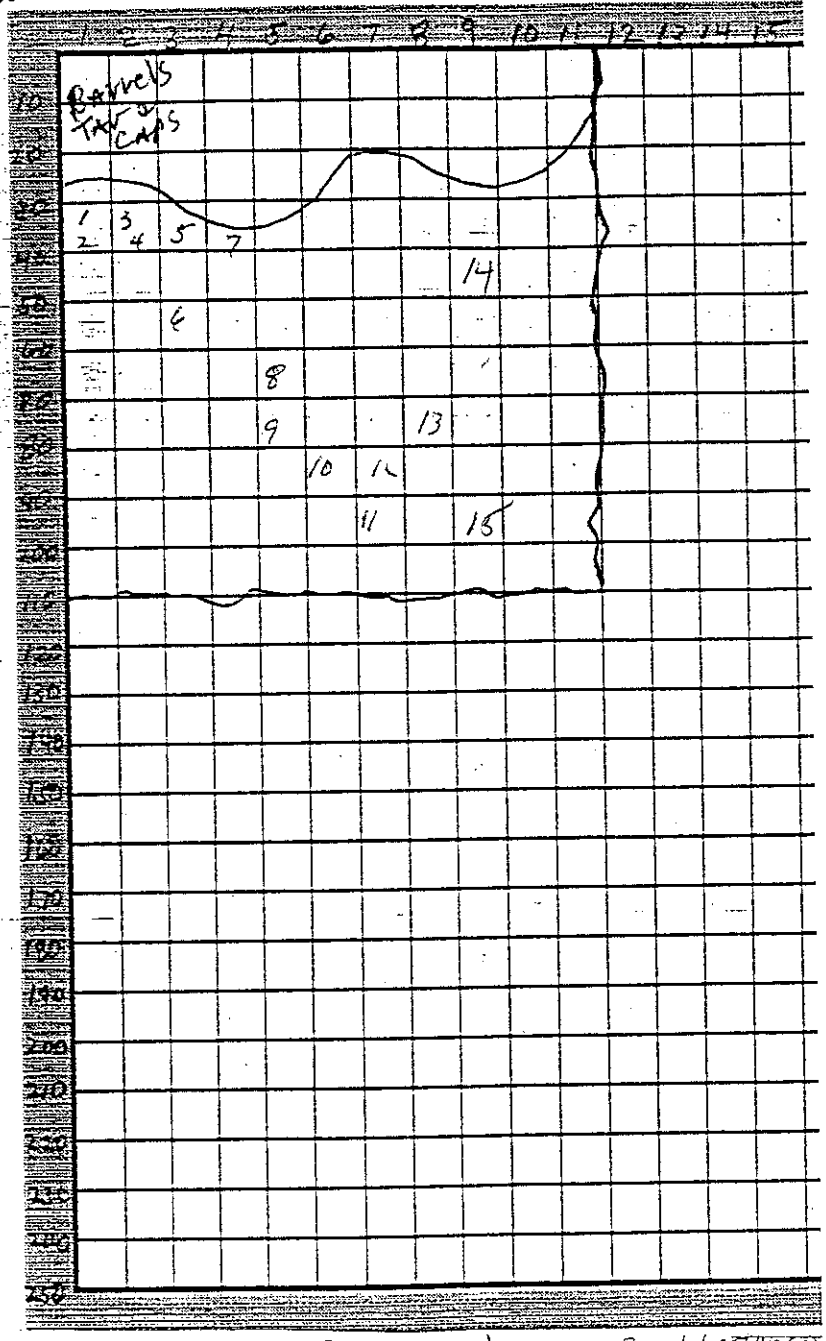
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader Wilhelmy Date 8/29/96 & 9/10/96

Comments: SWMU 38S D2

SW → N



Contacts Live ✓

1. Cap
2. Cap
3. Cap
4. Cap
5. Cap ~~[illegible]~~ SCRAP
6. Nail
7. Cap Scrap
8. Nail
9. Nail
10. Nail
11. Nail
12. Nail
13. Nail
14. Nail
15. Scrap Iron with rings
16.
17.
18.
19.
20.
21.
22.
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Time Start: 1530 3 – 1700 (7.5) 1345 – 1545 3 + 1 Last Ur (7)

Finish: 1545

Total Mnhrs: 14.5

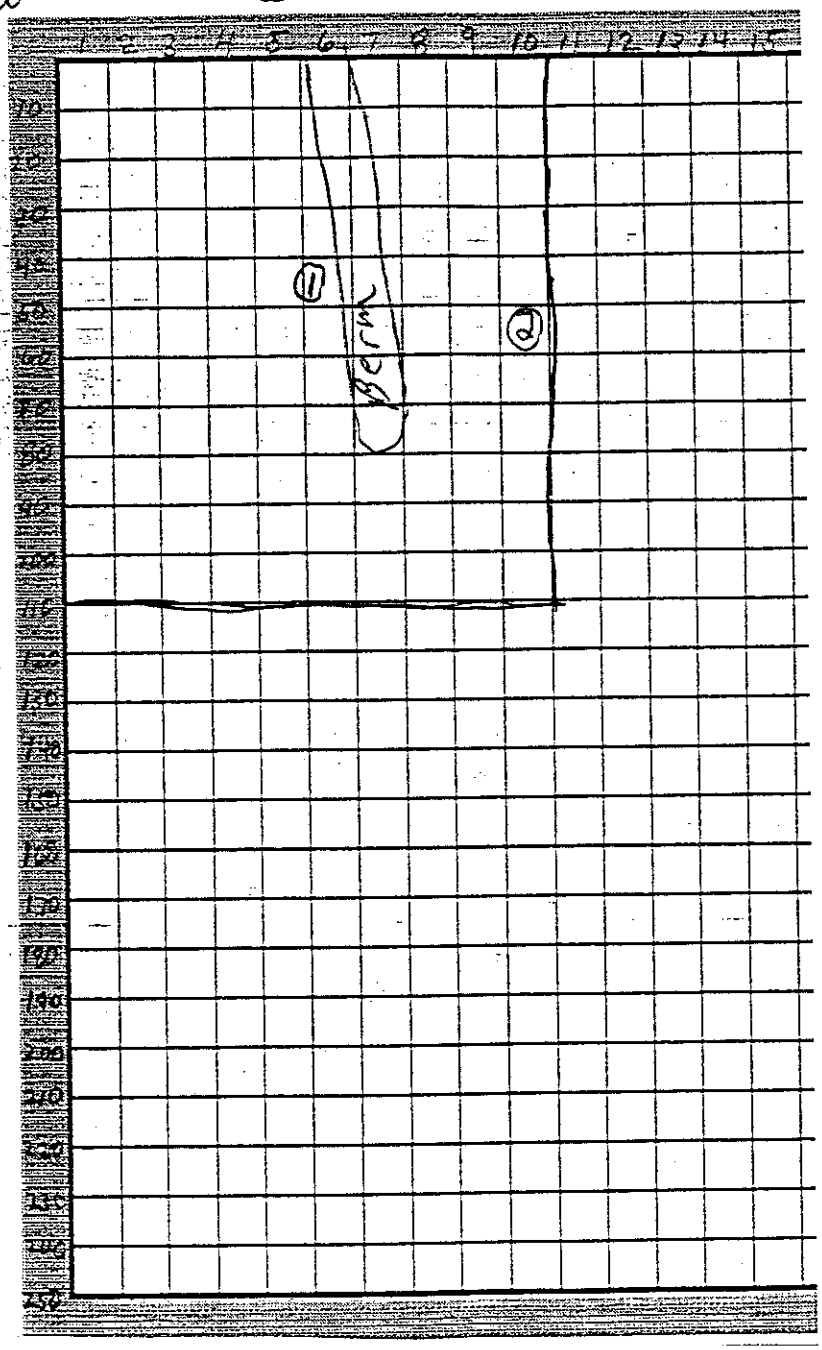
UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

Team Leader THRIFT Date 9/10/96 + 9/30/96

Comments: SWMU 385 D 3

SW → N



Contacts Live ✓

1. Aluminum Can
2. metal debris
3.
4.
5.
6.
7.
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14.
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Time Start: 1545 - 1630 3 mhrs

/30/96 Finish 0630-0 8:30 6 hrs fcc

Total Mnhrs: ~~[illegible]~~ 9 hrs fcc

UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

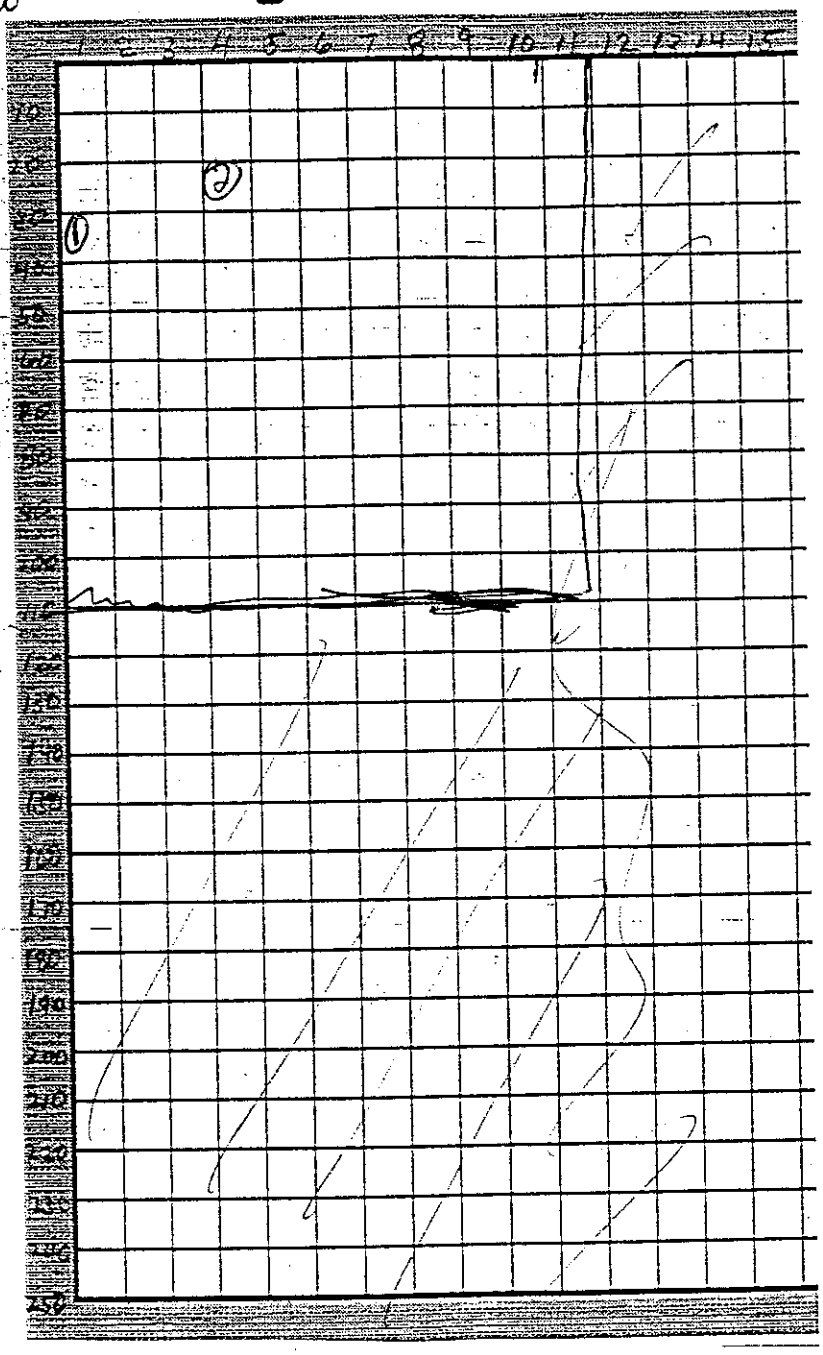
Team Leader Miller Date 9/30/96

Comments: SWMU 385 04

Miller, Cook, Kirwin

Brush Cutting required

SW → N



Time Start: 0830

Finish: 0945

Total Hours: 3:45

Contacts Live ✓

1. Alum debris
2. Alum debris
3.
4.
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7.
8.
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12.
13.
14.
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UXB International, Inc.

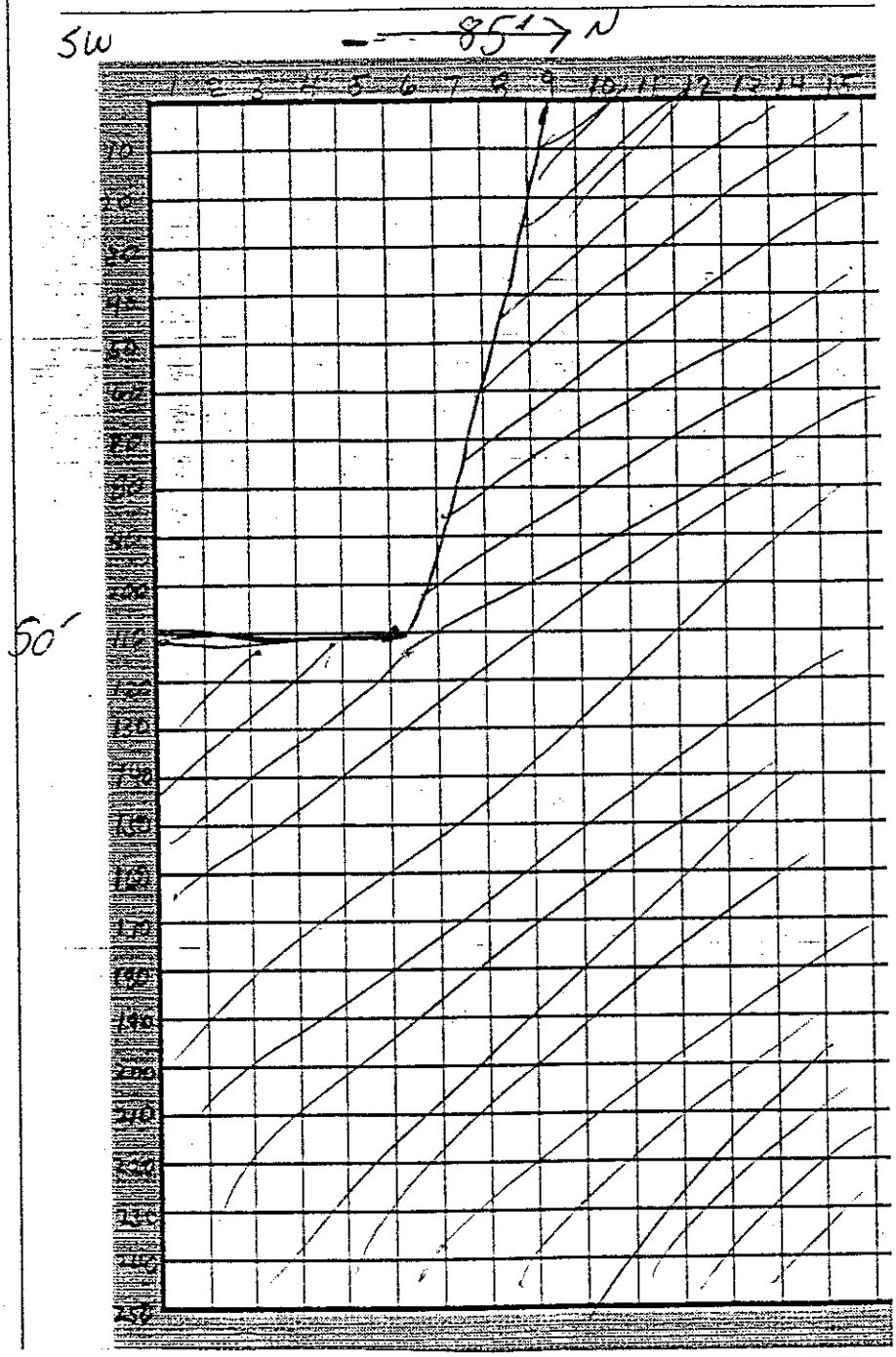
Job Name Port Ewen Project Leader Schucker

Team Leader Miller Date 9/30/96

Comments: SWMU 38S DS

Miller Cook

SW



Time Start: 0945

Finish: 1030

Total Mnhrs: 1.5

Contacts Live ✓

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No Contacts

UXB International, Inc.

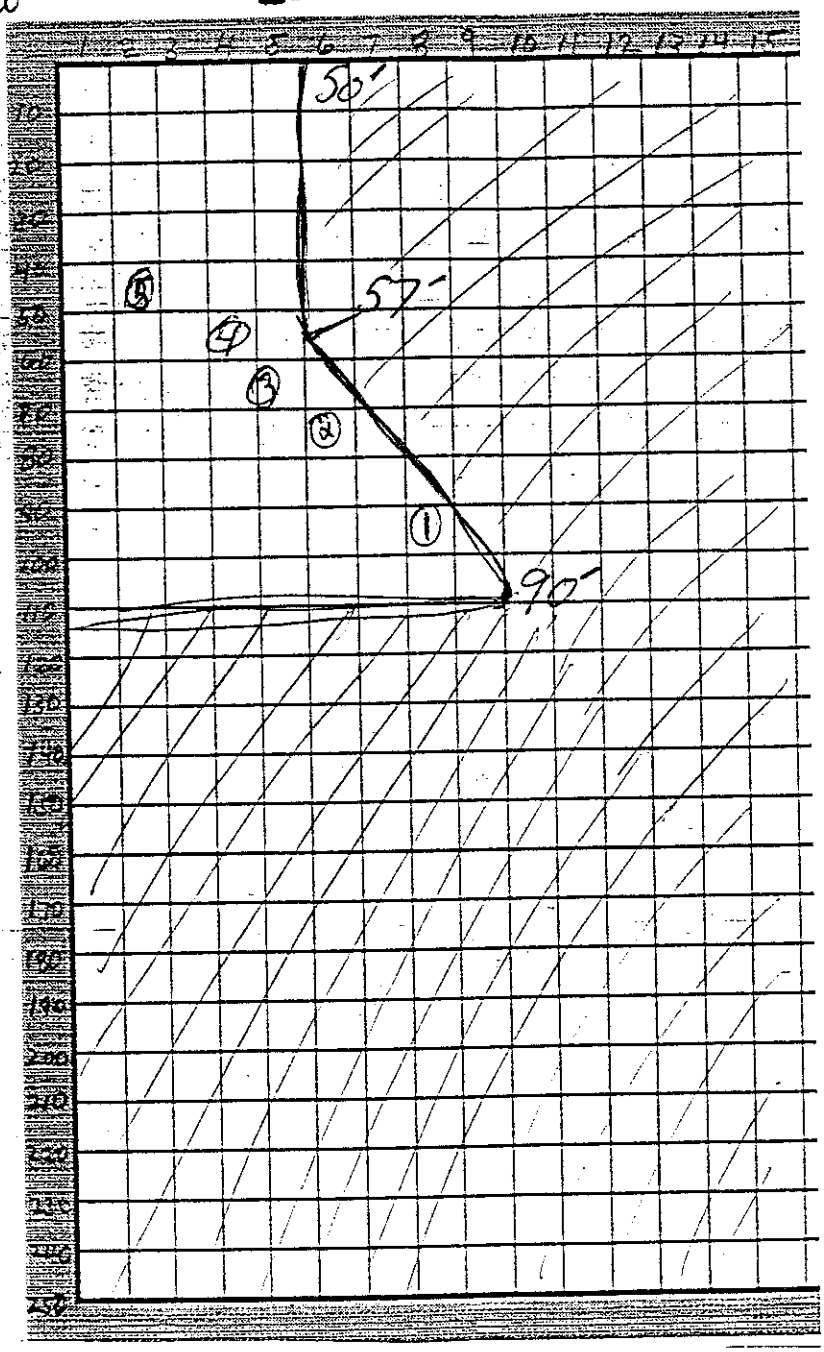
Job Name Port Ewen Project Leader Schucker

Team Leader ~~385~~ Miller Date 9/30/96

Comments: SWMU 385 E5

Cook Millers

SW → N



Time Start: 10:30

Finish: 11:15

Total Mnhrs: 1.5 hrs

Contacts

Live ✓

1. Pre Cap Extrusion
2. Cap
3. Pipe Cap
4. Pre Cap Extrusion
5. foil
6.
7.
8.
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UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

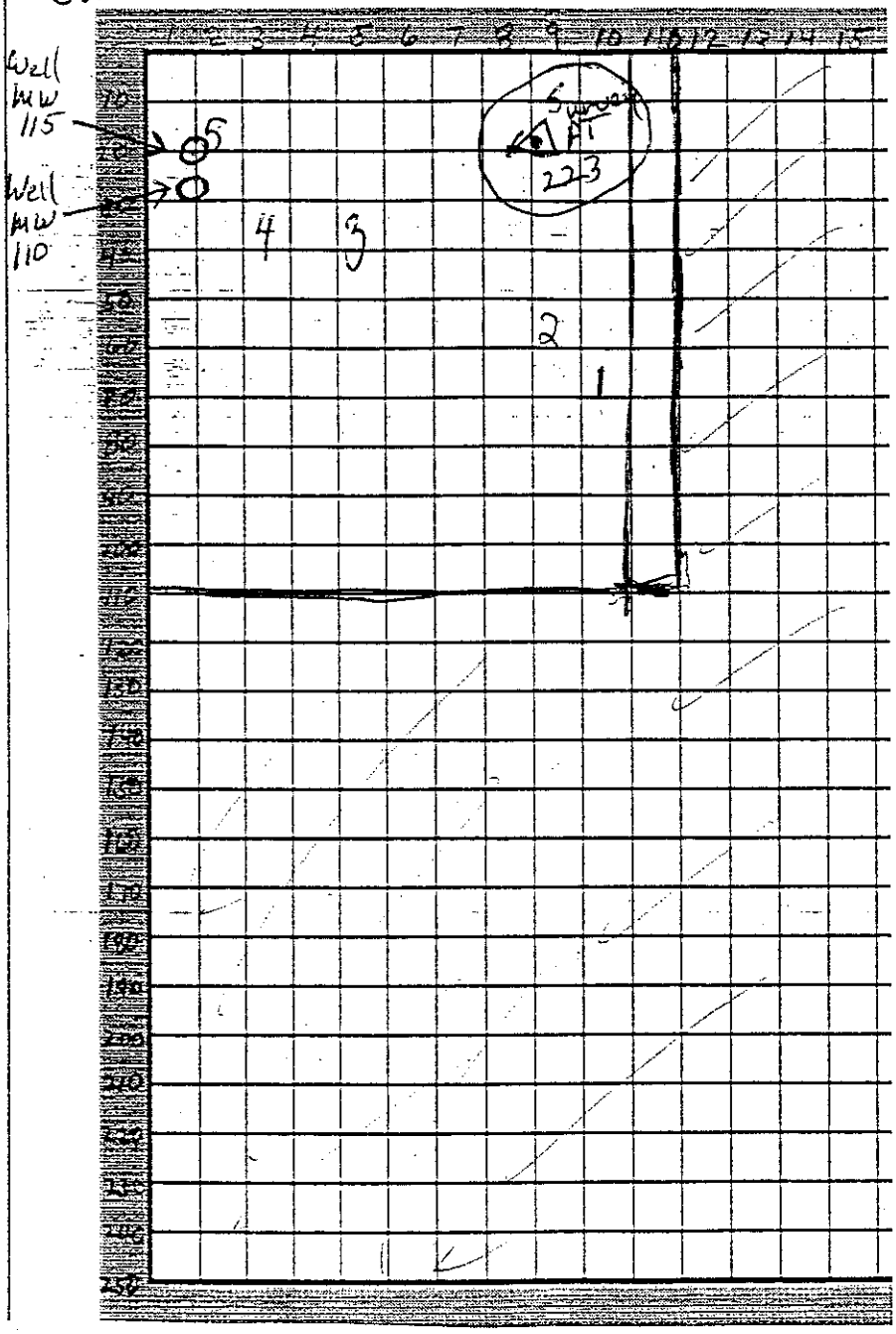
Team Leader Miller Date 9/30/96

Comments: SWMU 38S E4

Miller, Cook

Brush Cutting required

SW → N



Contacts Live ✓

1. CAP ~~Peace~~
2. CAP ~~Peace~~
3. Alum CAN
4. Chain links
5. 30 Cartridge Case
6.
7.
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Time Start: 11:15-12:00 1.5hrs Cook miller

Finish: 12:00-1330 4.5 Cook miller Kirwin

Total Mnhrs: 6hrs

UXB International, Inc.

Job Name Port Ewen Project Leader Schuckert

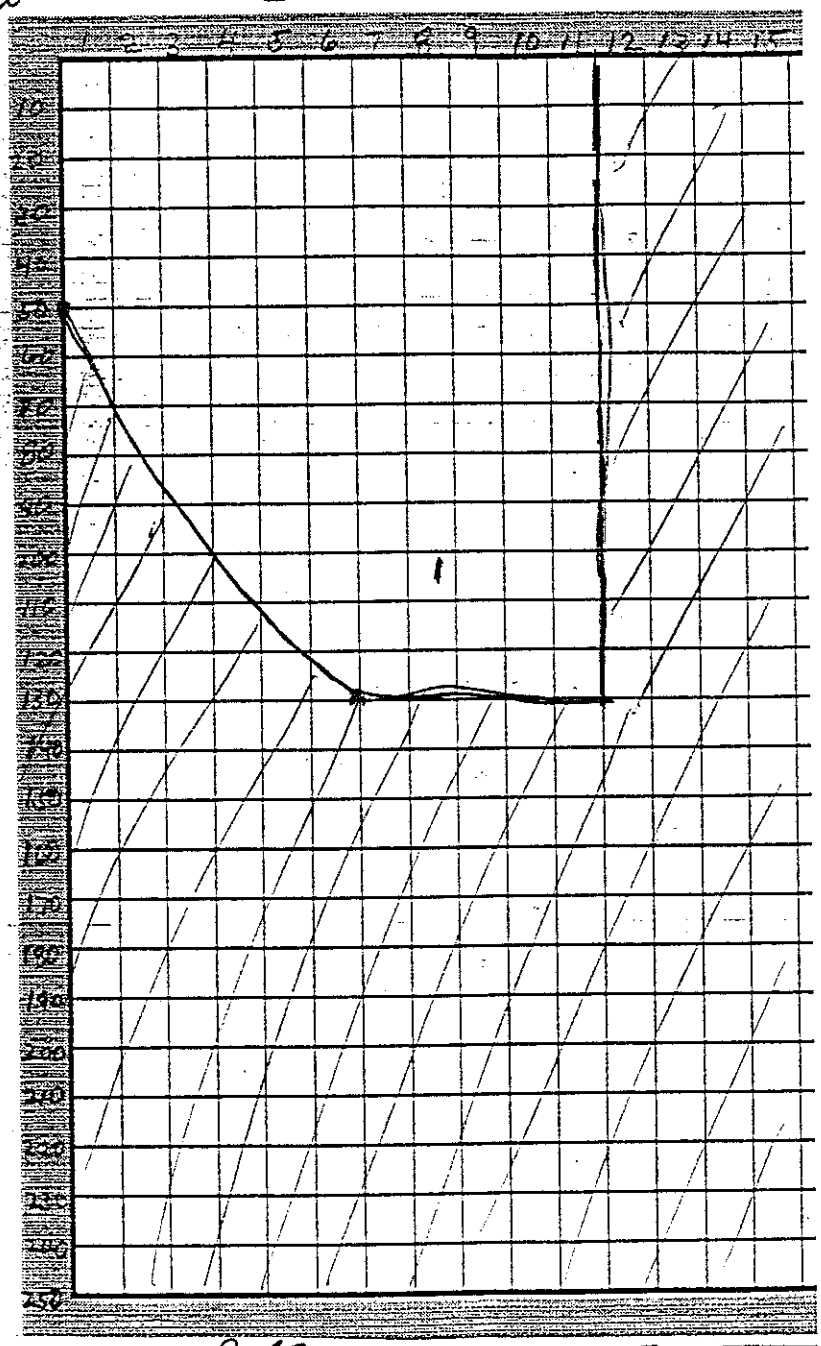
Team Leader Cook Date 9/30/96

Comments: SWMU 385 E3

Miller Cook Kirwin

Brush Cutting Required

SW → N



Time Start: 13:30 - 16:40 9.5 hrs

Finish: ~~16:40~~

0630 - 8.30 6 hrs

Total Manhrs: 15.5 hrs

Contacts

1. Aluminum
2.
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Live ✓

UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

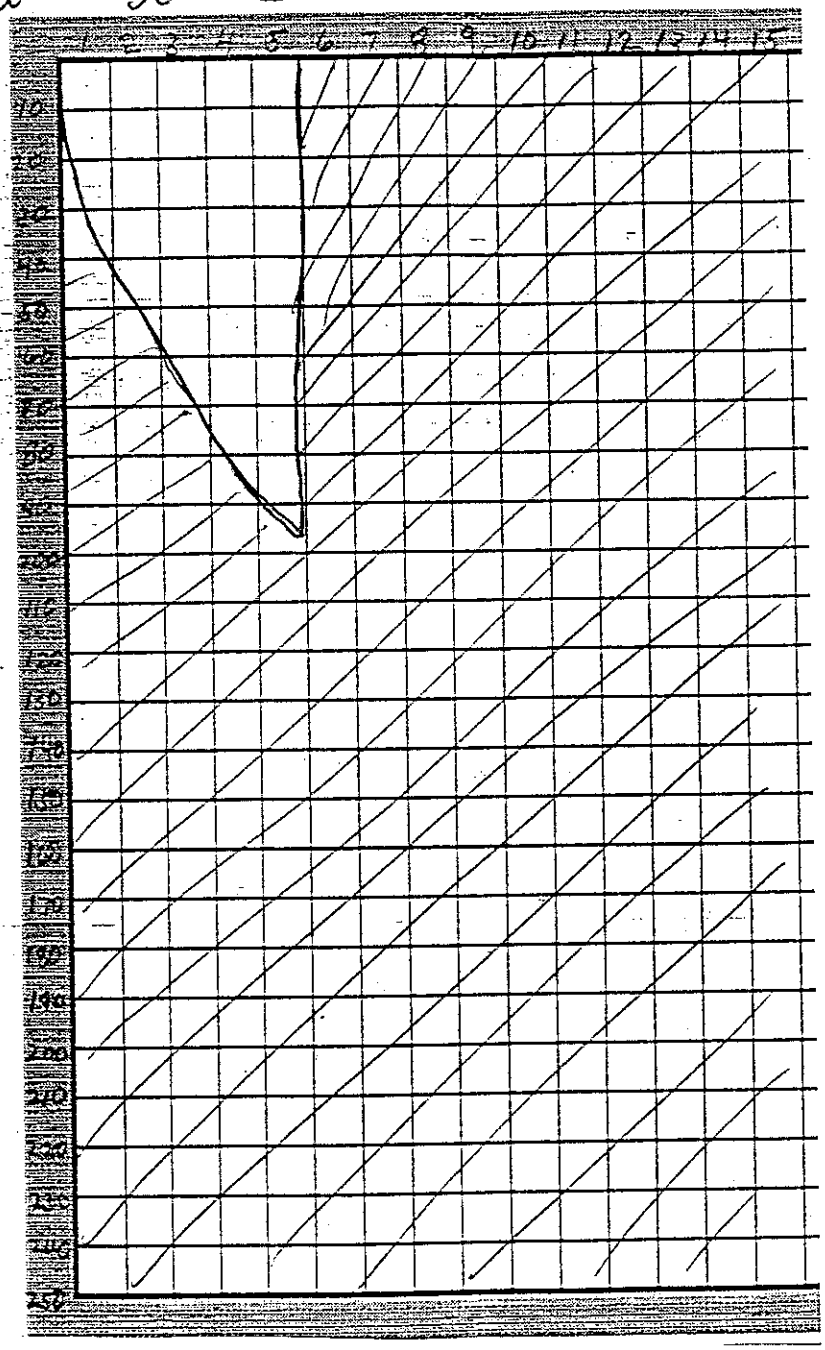
Team Leader Kirwan Date 10/1/96

Comments: SWMU 38S F3

Kirwin, Cook, miller

Brush cutting required

SW 50' → N



94

Time Start: 08:30

Finish: 09:15

Total Mnhrs: 2:15 min

Contacts Live ✓

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UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

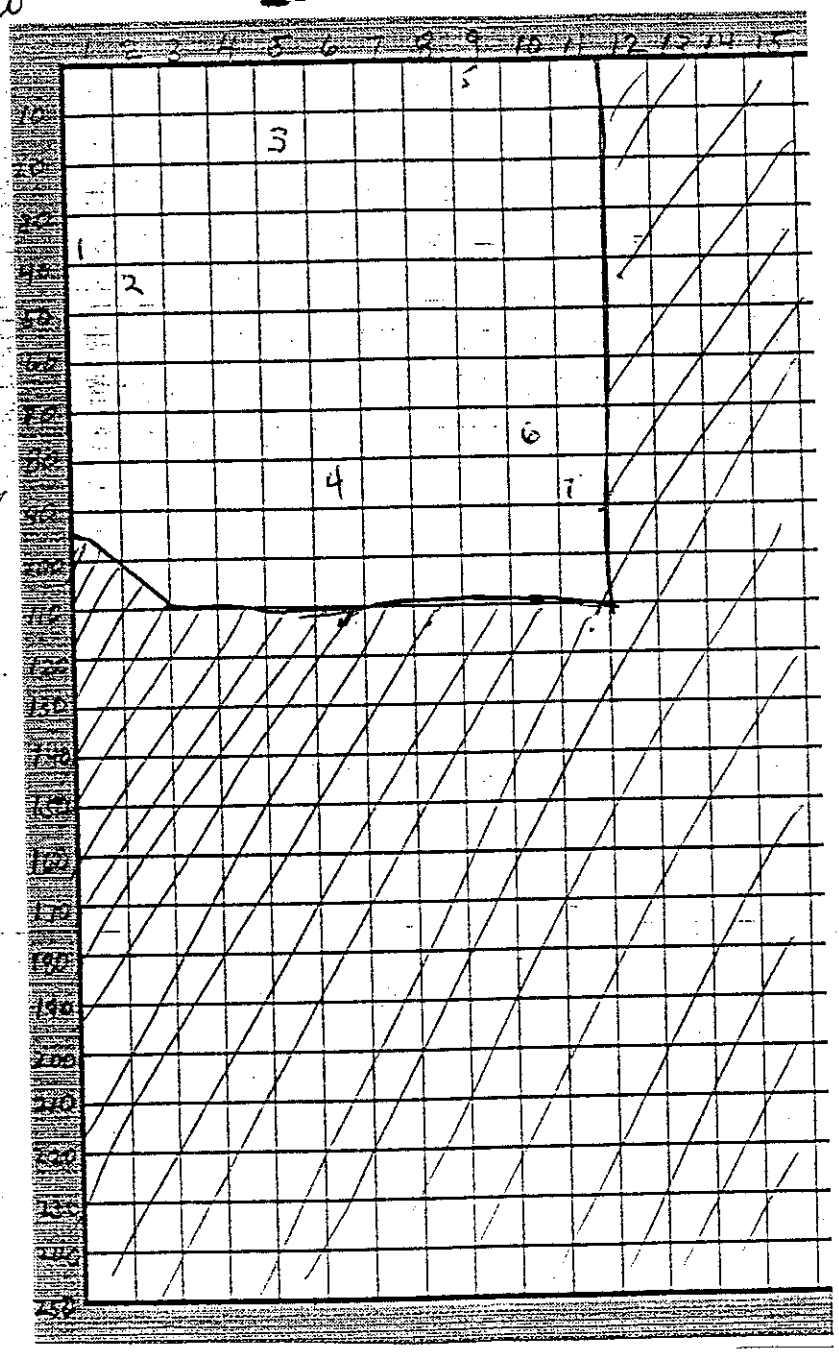
Team Leader Miller Date 10/1/96

Comments: SWMU 385 F4

Miller Cook Kirwan

Brush Cutting Required

SW



Time Start: 09:15

Finish: 11 40

~~3:25~~

Total Manhrs: 6 hr 5 min

Contacts

Live ✓

1. Rebar Stake
2. Steel tarp
3. Steel hook
4. Steel wall fastener
5. Horse shoe
6. Steel pin
7. Steel pin
8.
9.
10.
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UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

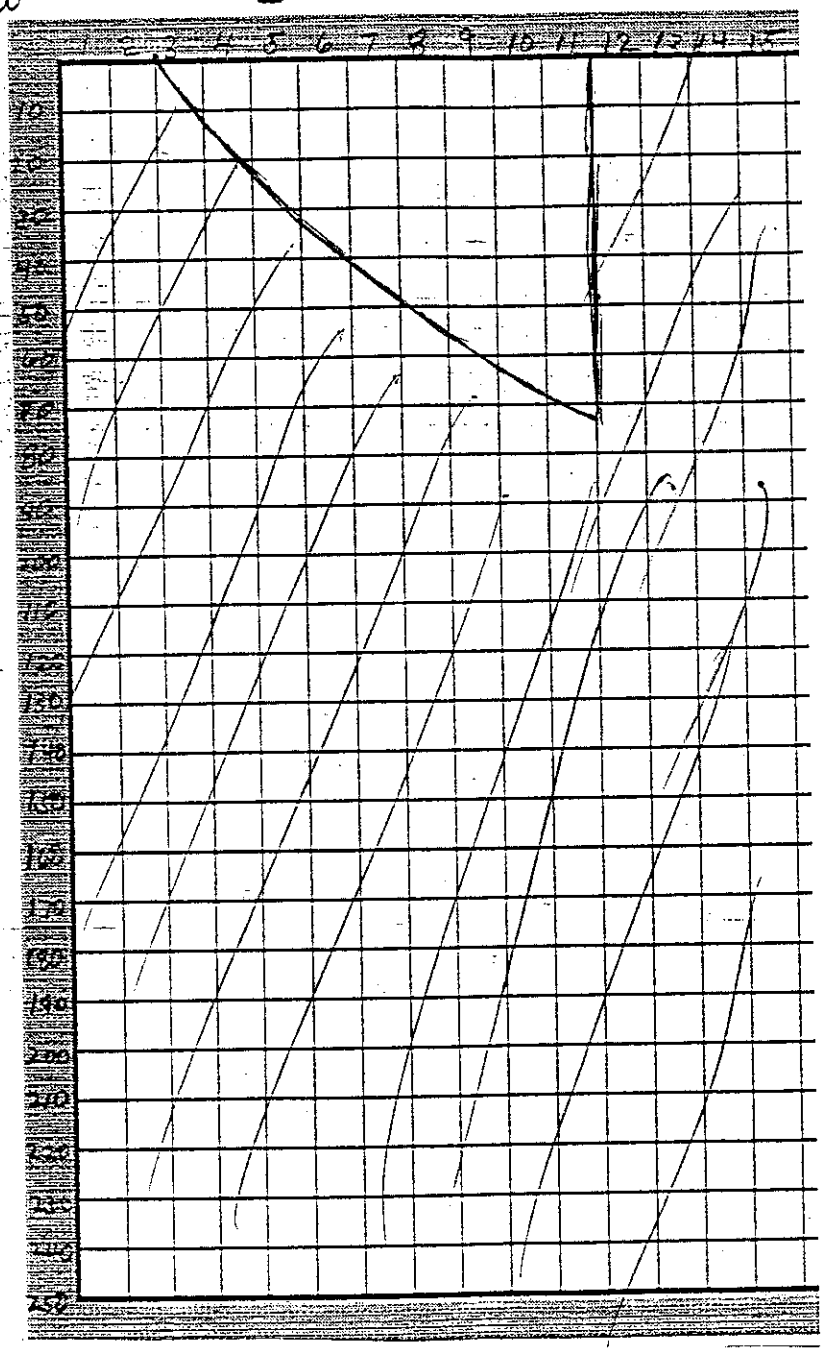
Team Leader Miller Date 10/1/96

Comments: SWMU 38 Grid G4

Miller & Cook

Brush cutting required

SW → N



Time Start: 1140

Finish: 1210

Total MnHrs: 1

Contacts

Live ✓

1.
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4.
5. No Contacts
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UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

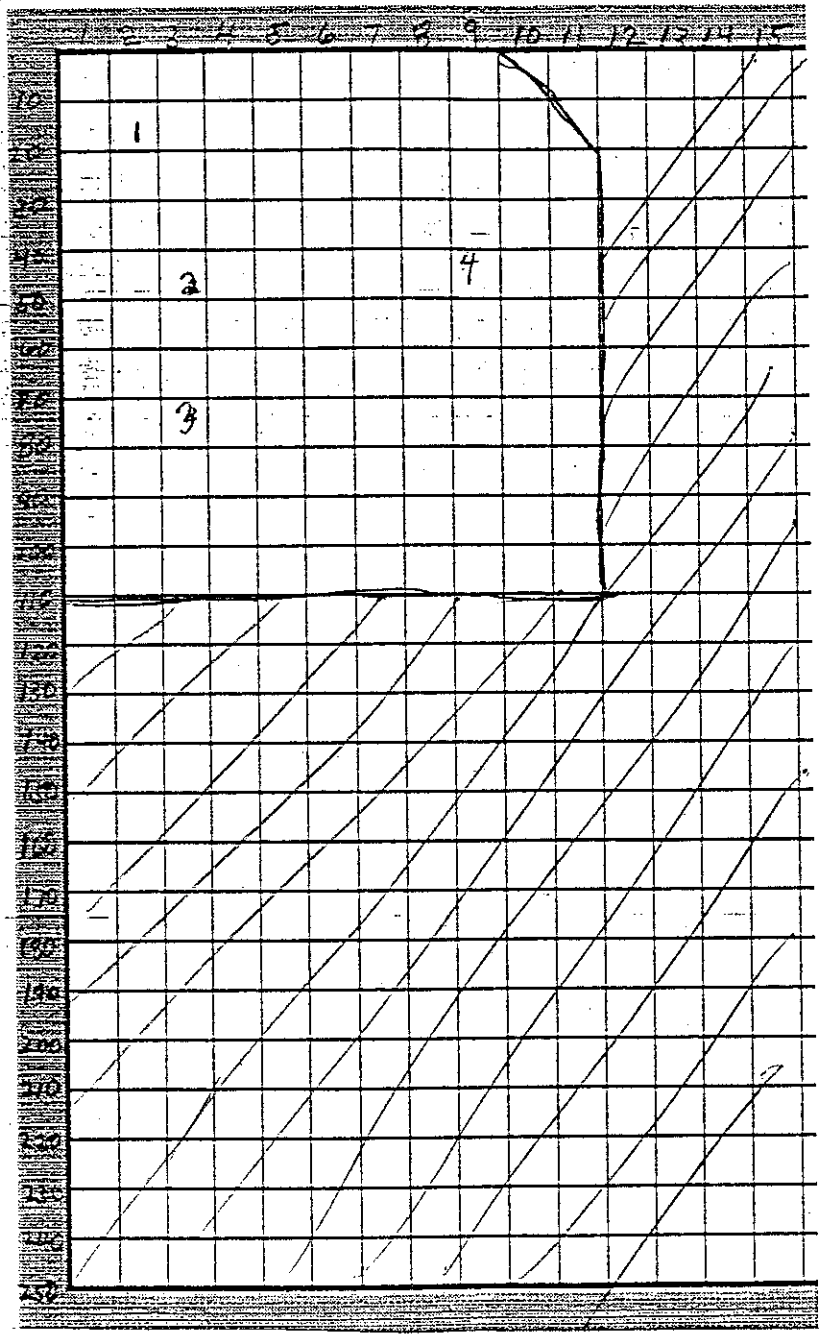
Team Leader Miller Date 10/1/96

Comments: SWMU 38 F-5

Miller & Cook

Brush cutting required

SW → N



Time Start: 1210

Finish: 1425

Total Mnhrs: 4.5

Contacts — Live ✓

1. Steel Bar
2. Small metal debris
3. Nail
4. Alum Can
5.
6.
7.
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UXB International, Inc.

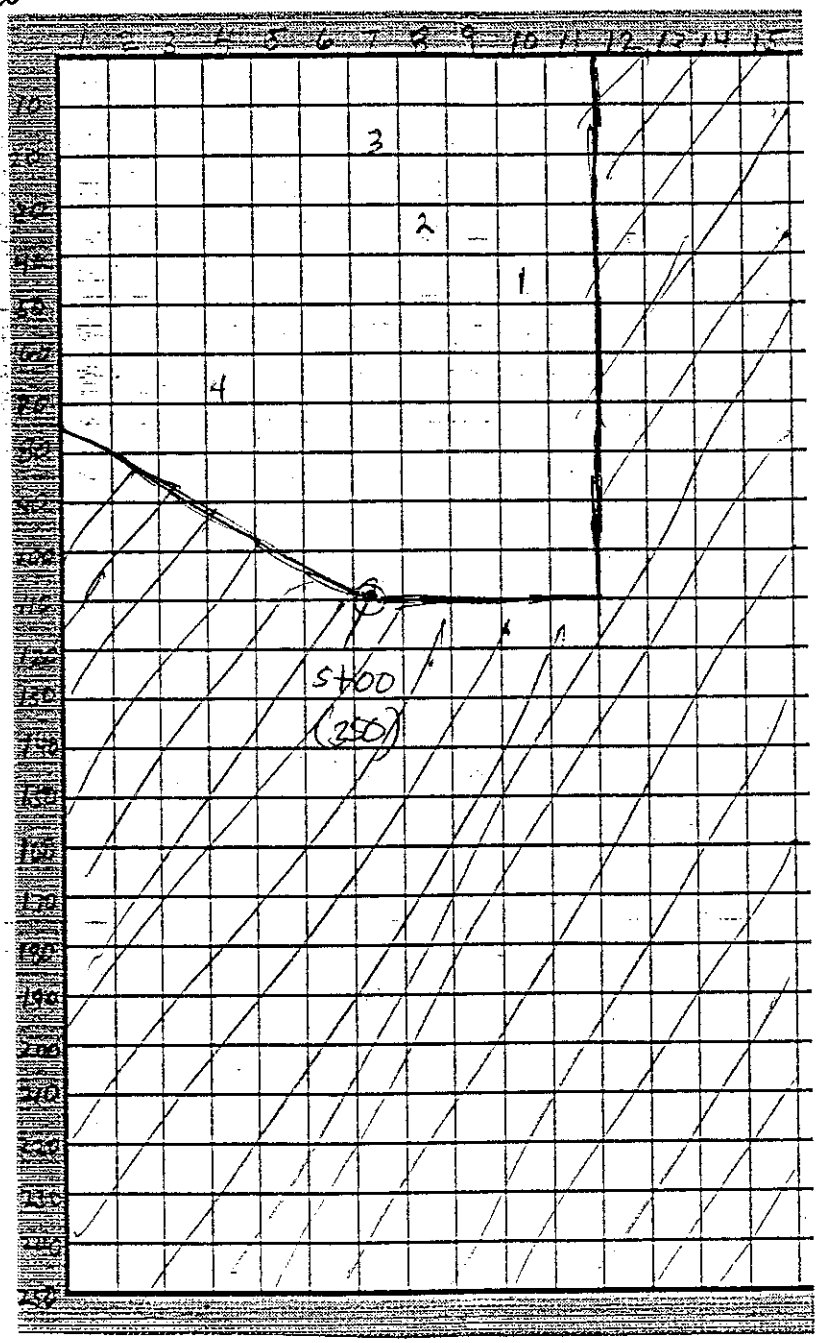
Job Name Port Ewen Project Leader Schucker

Team Leader Miller Date 10/1/96

Comments: SWMU 38 G5

Miller & Cook

SW → N



Time Start: 1425

Finish: 1540

Total Manhr: 2.5

Contacts Live ✓

1. Steel Ring on spike
2. Penny
3. Bullet Casing
4. Bullet Casing
5.
6.
7.
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UXB International, Inc.

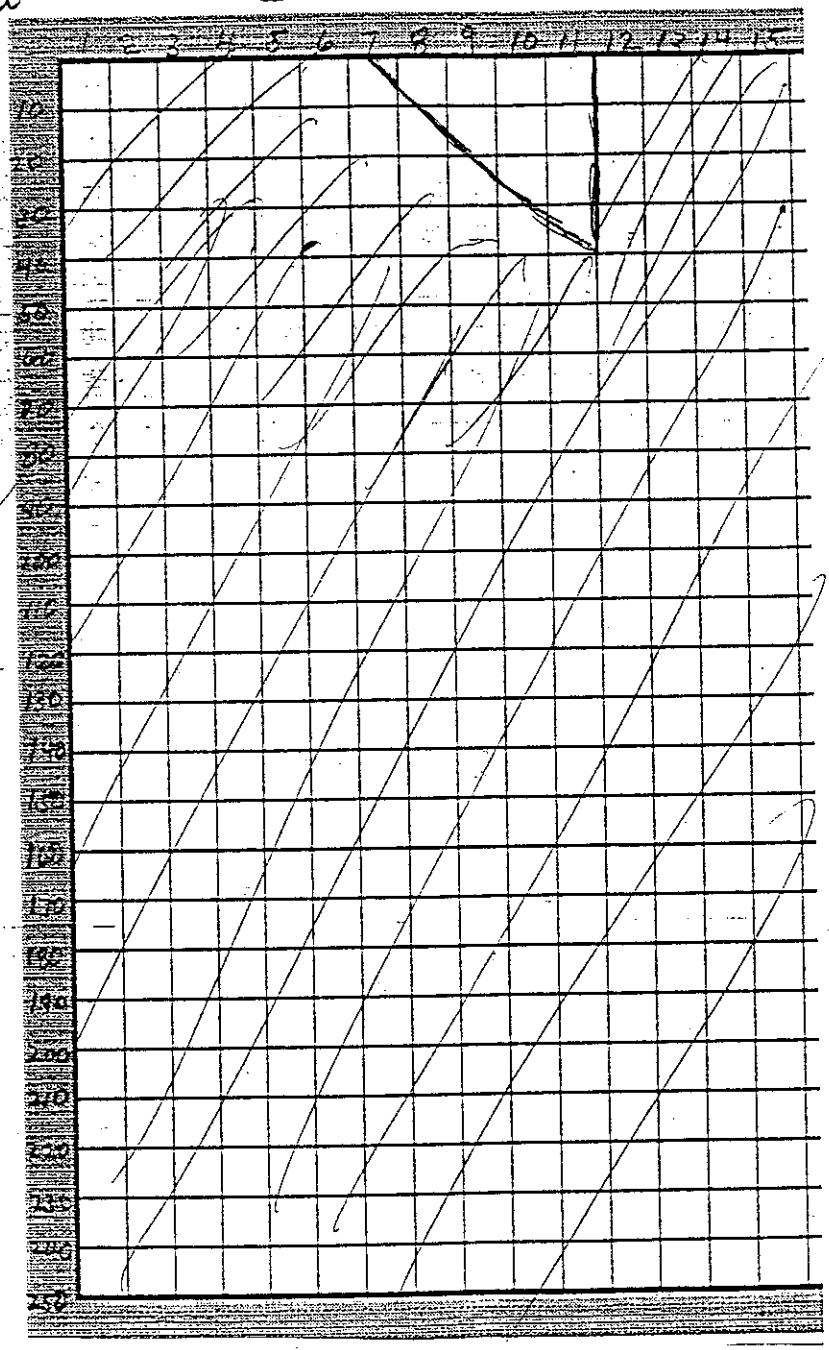
Job Name Port Ewen Project Leader Schucker

Team Leader Miller Date 10/1/95

Comments: SWMU 38 HS

Miller & Cook

SW → N



Time Start: 1540

Finish: 1550

Total Mnhrs: .33

Contacts Live ✓

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UXB International, Inc.

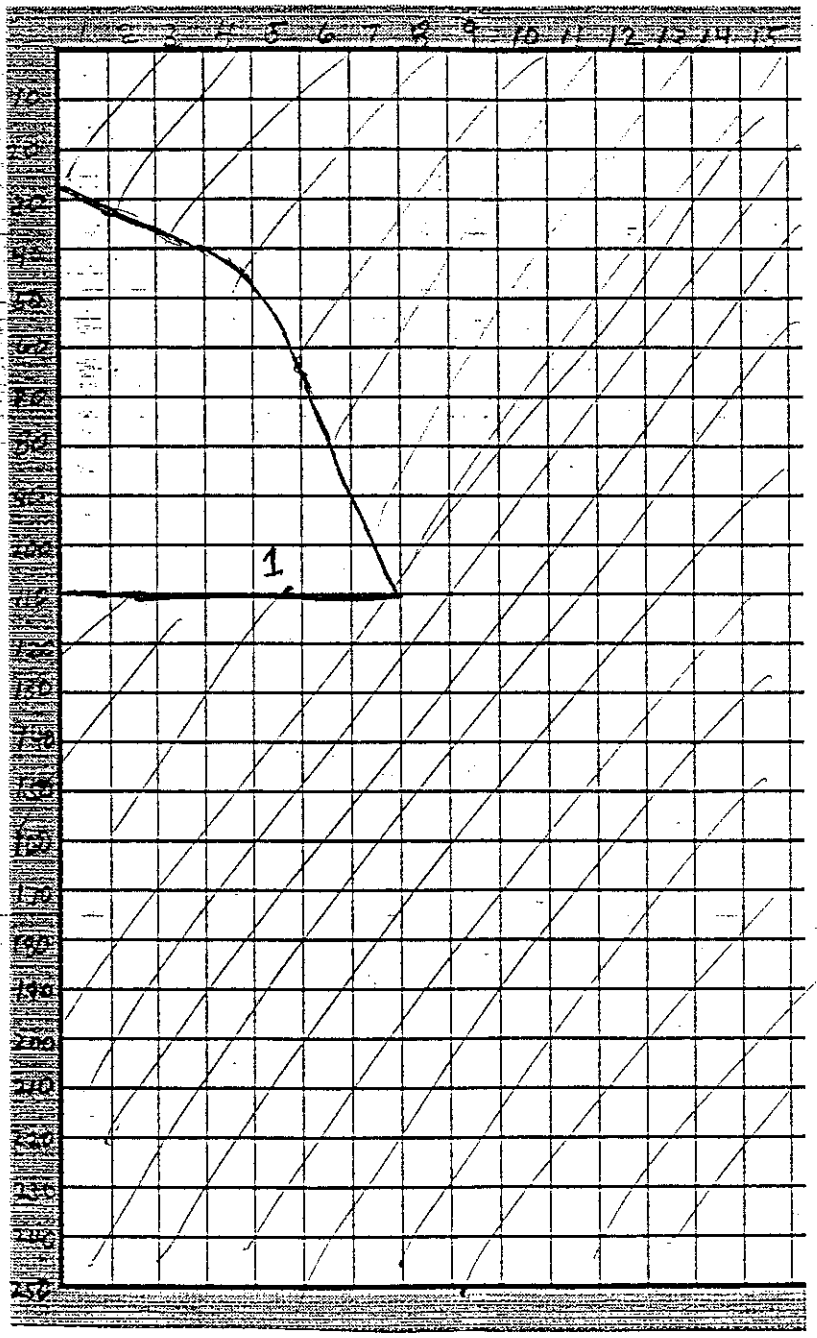
Job Name Port Ewen Project Leader Schucker

Team Leader Miller Date 10/1/96

Comments: SWMU 38 F6

Miller & Cook

SW → N



Time Start: 1550

Finish: 1610

Total Manhrs: .66

Contacts Live ✓

1. Small arms bullet
2.
3.
4.
5.
6.
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UXB International, Inc.

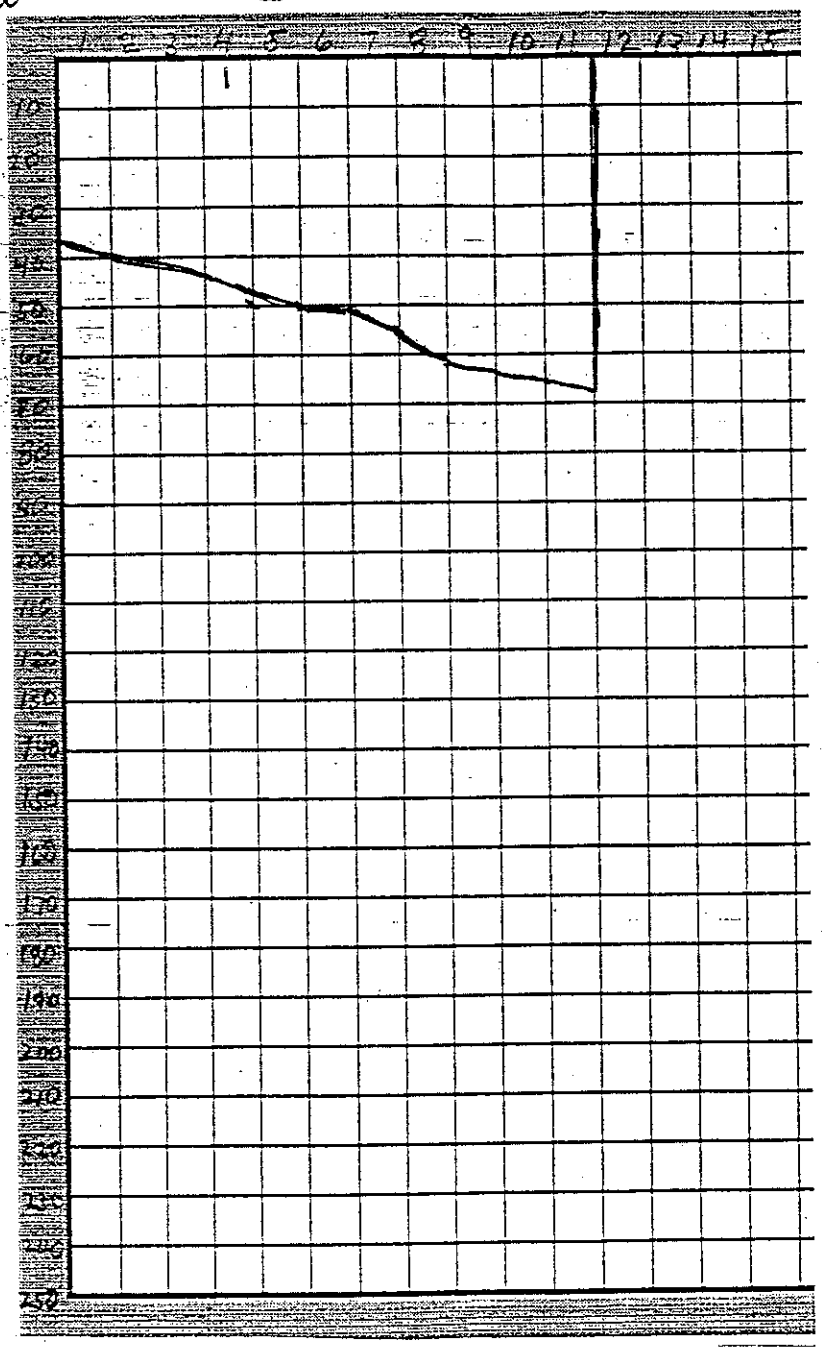
Job Name Port Ewen Project Leader Schuckert

Team Leader Miller Date 10/2/96

Comments: SWMU 38 H 6

Miller & Cook

SW → N



Time Start: 0900

Finish: 0930

Total Manhrs: 1

Contacts

Live ✓

1. Slag
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.
17.
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UXB International, Inc.

Job Name Port Ewen Project Leader Schucker

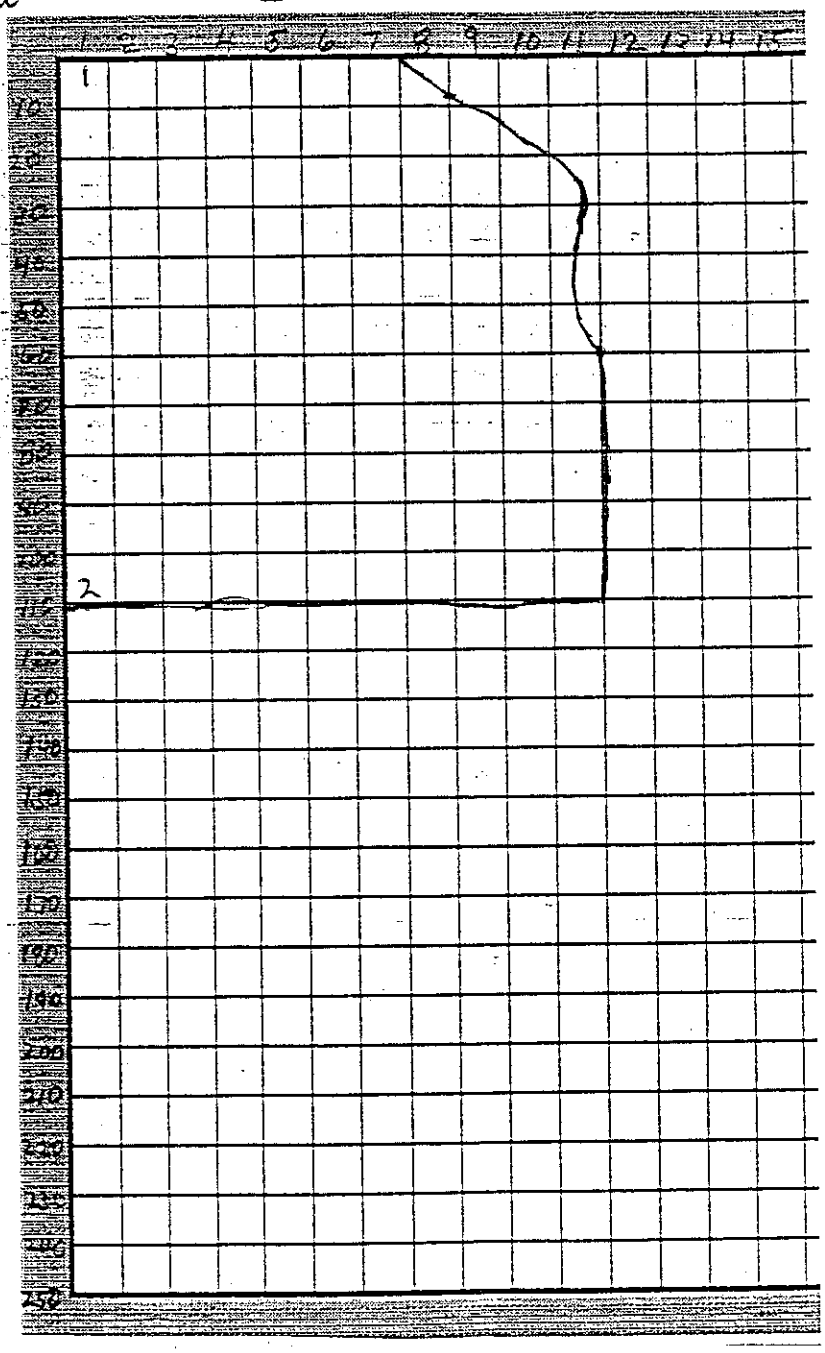
Team Leader Miller Date 10/2/96

Comments: SWMU 38 G-6

Miller & Cook

Brush cutting required

SW



Time Start: 0630

Finish: 0906

Total Mnhrs: 5

Contacts

Live ✓

1. Metal debris
2. Metal debris
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
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UXB International, Inc.

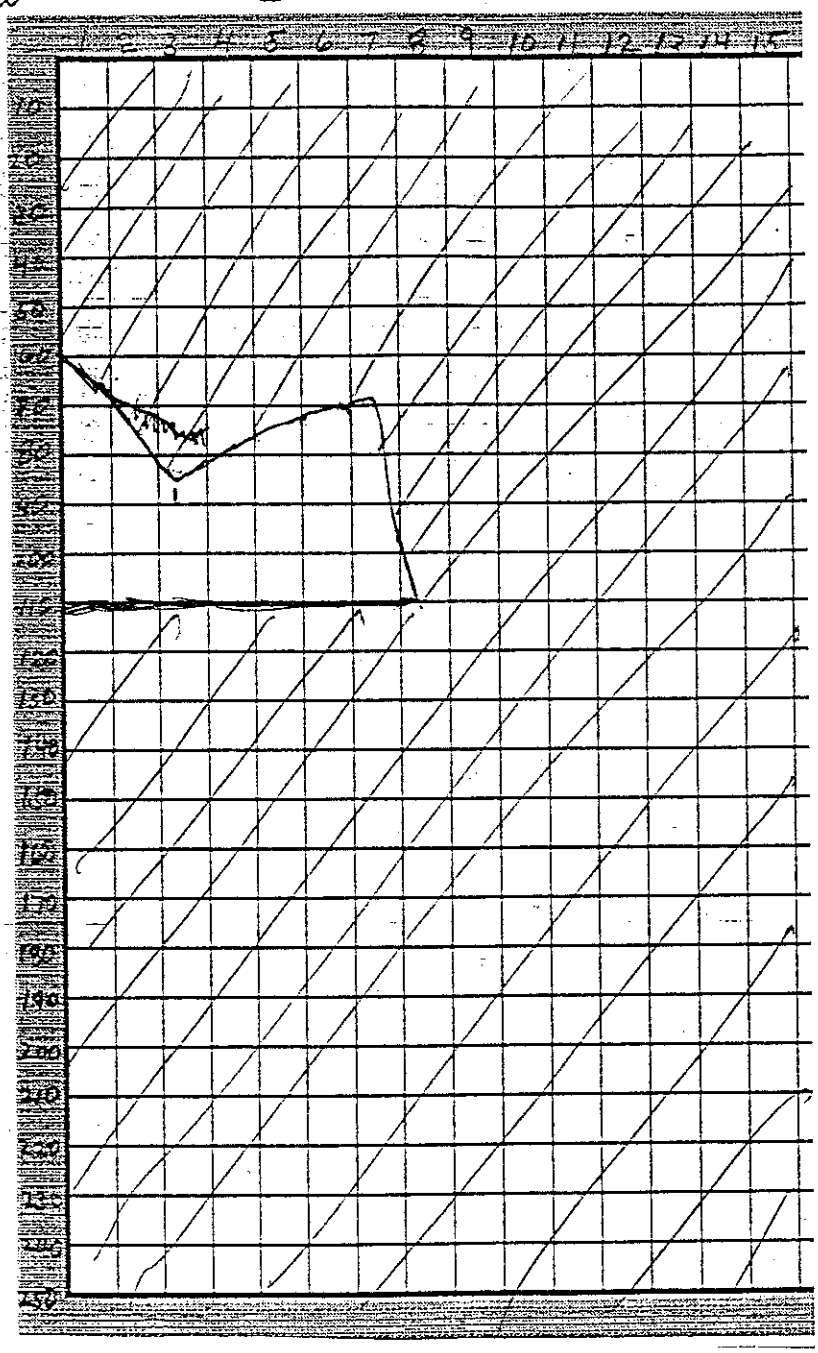
Job Name Port Ewen Project Leader Schucker

Team Leader Miller Date 10/2/96

Comments: SWMU 38 67

Miller & Cook

SW → N



Time Start: 0930

Finish: 1030

Total Mnhrs: 2

Contacts

Live ✓

1. Broken Horseshoe
2.
3.
4.
5.
6.
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9.
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UXB International, Inc.

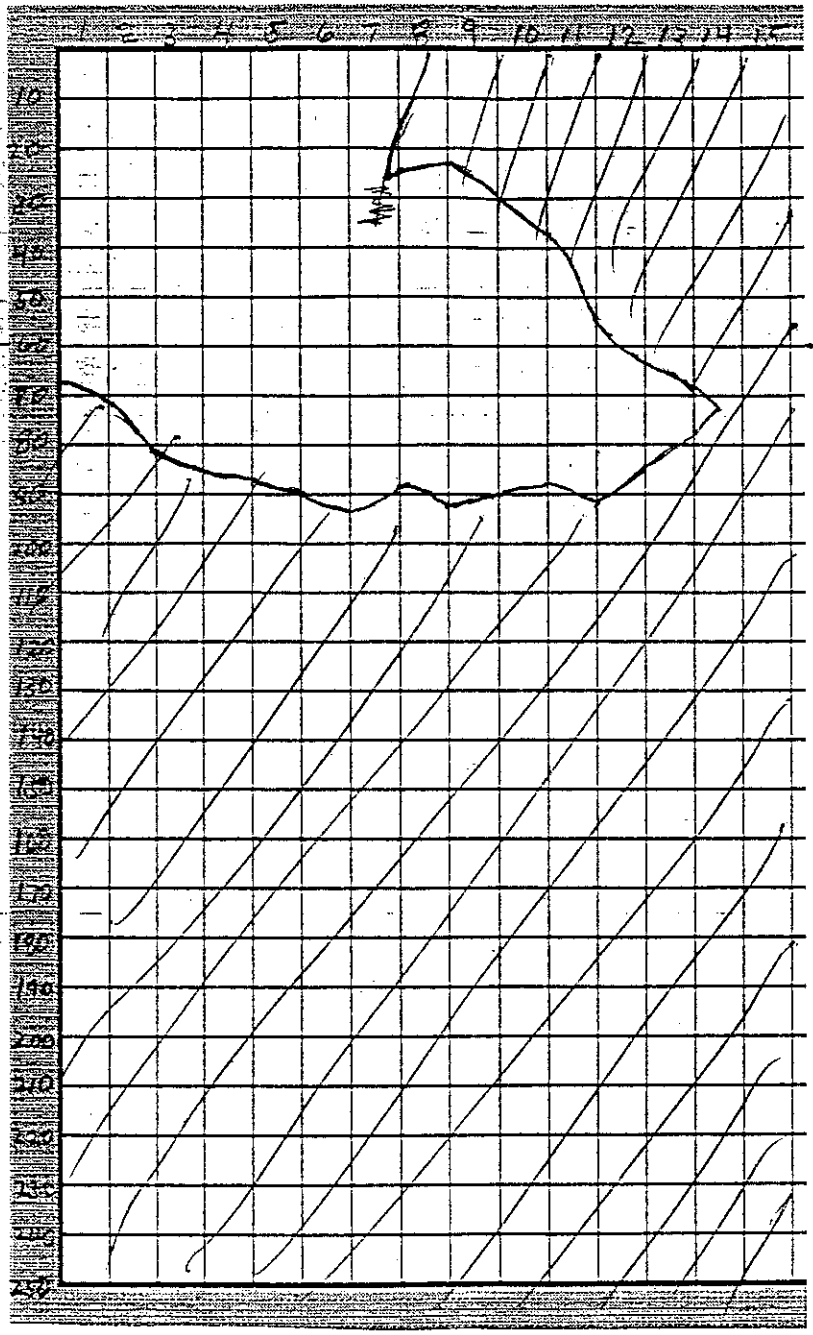
Job Name Port Ewen Project Leader Schuckers

Team Leader Miller Date 10/2/96

Comments: SWMU 38 H7

Cook & Miller

SW → N



Time Start: 1030

Finish: 1115

Total Manhrs: 1.5

Contacts Live ✓

1.
2.
3.
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7.
8.
9.
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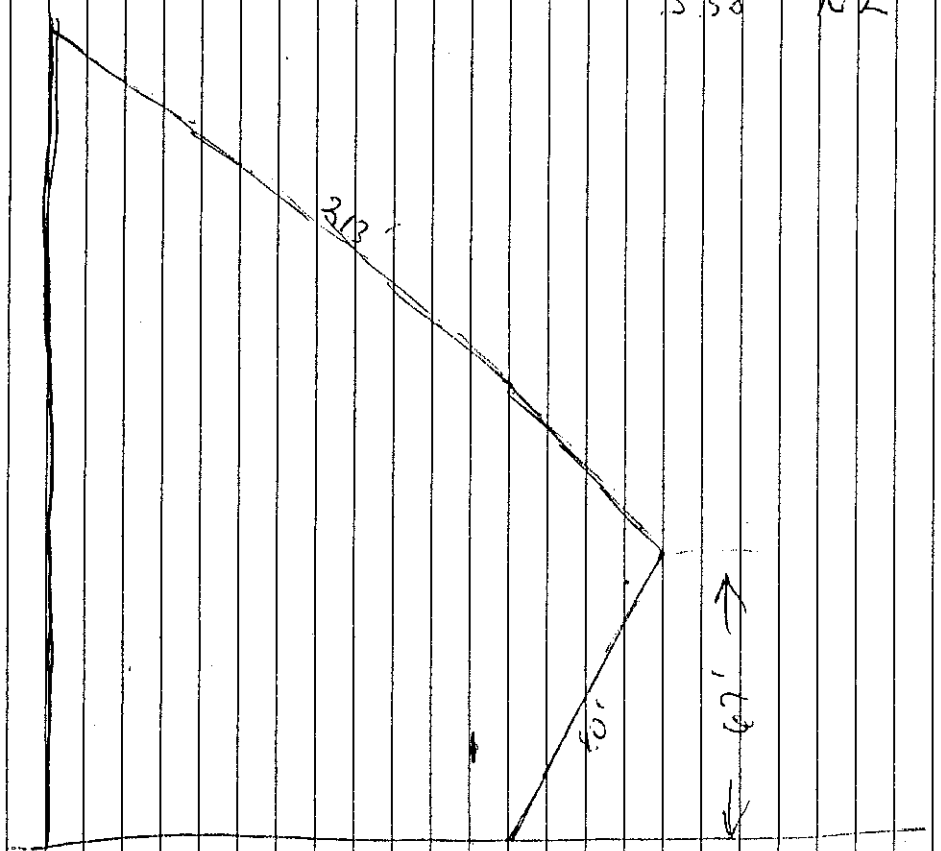
S38 - N2

10/3/96

Start 1300

Stop 1430



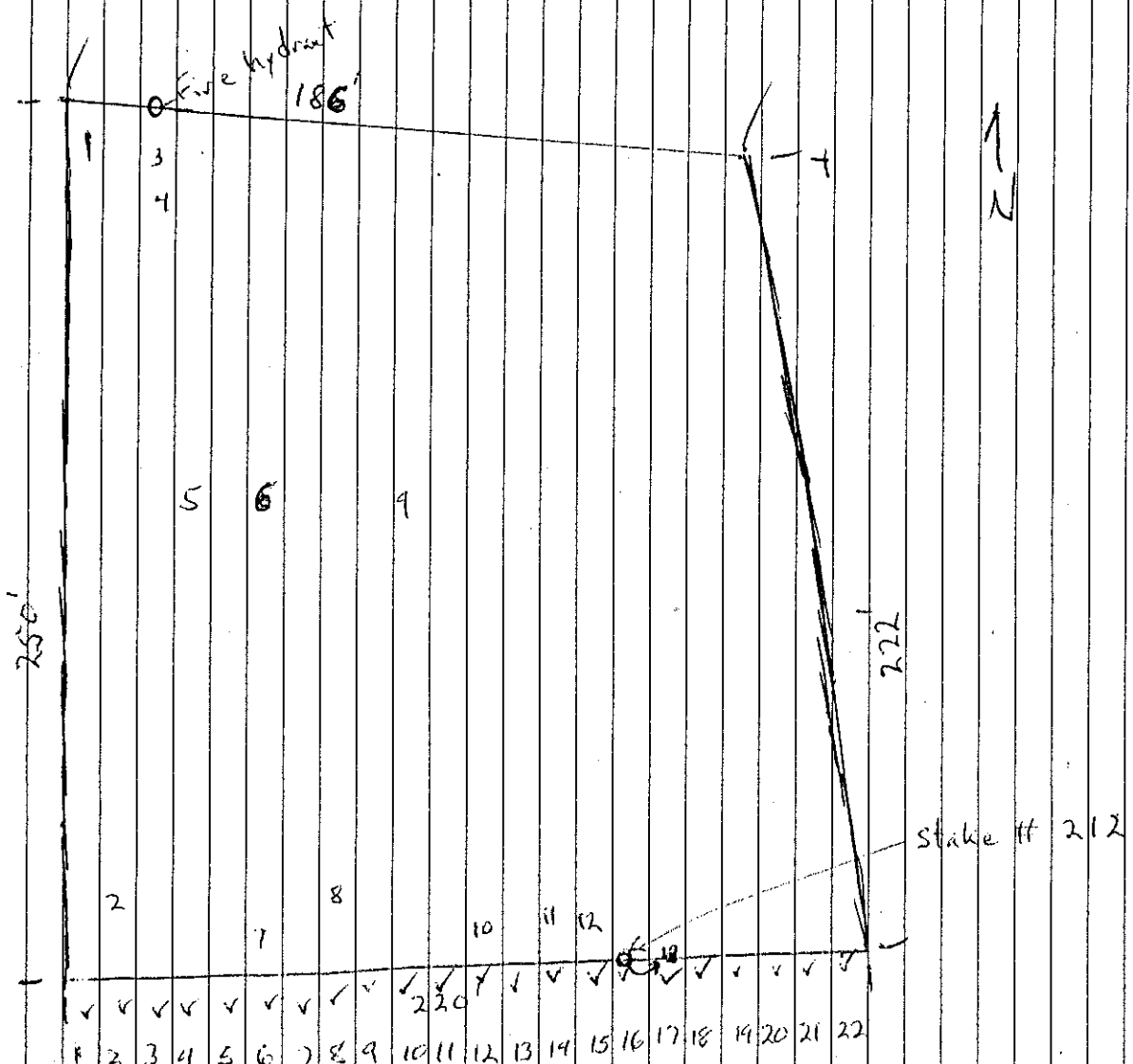
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

222' 212' 206' 196' 187' 180' 173' 164' 155' 145' 136' 126 117

1 - Buckle at 36'

S 38 N1

~~N2~~



1- Nails - 240'
2- Slag - 50'
3- Clamp 239'
4- Slag - 217'
5- Knife - 161'
6- Chain wrench 145'
7- Nails - 20'
8- Metal Disk - 49'
9- Nail - 162'
10- Foil - 20'
11- Small metal debris - 22'
12- Nail - 21'
13- Cap debris - 1'

10/3/96

Start 1430

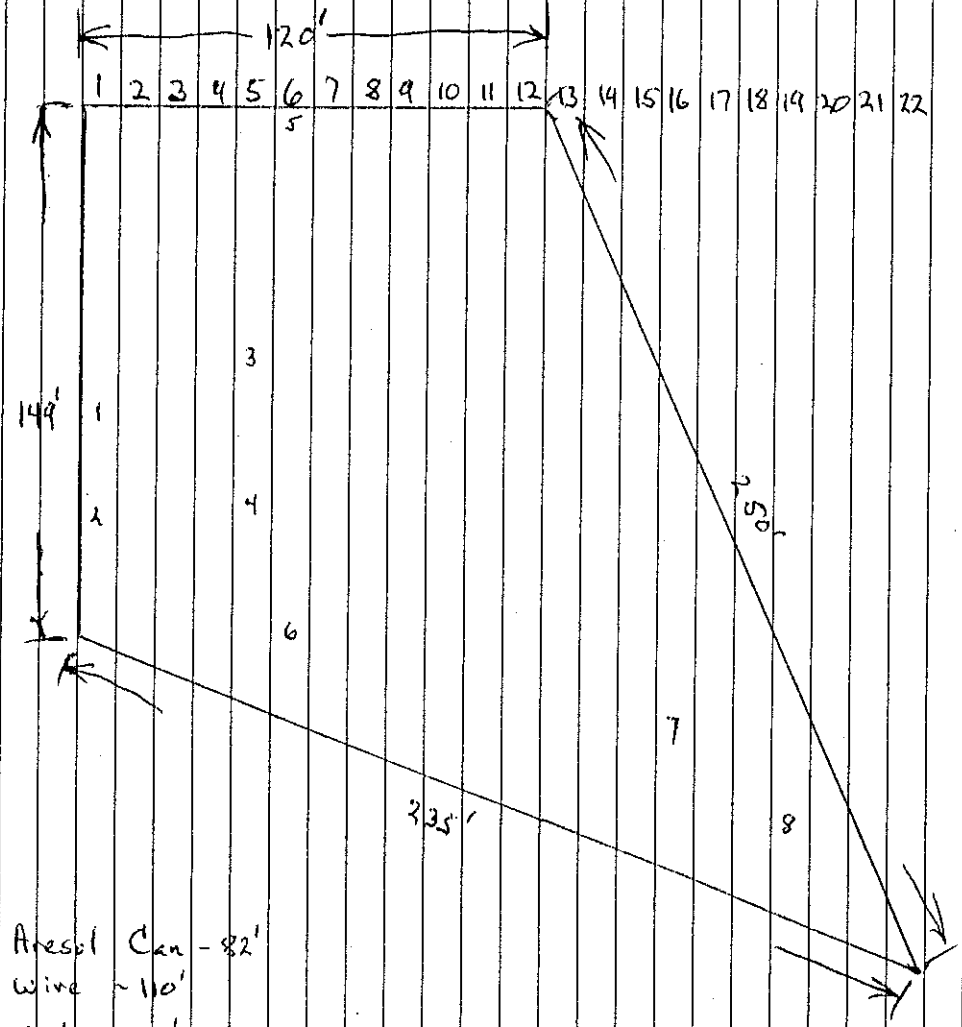
Stop 1630

10/4/96

Start 0630

Stop 0900

S 38 S2



1. Aresol Can - 82'
2. Wire - 110'
3. Nails - 65'
4. Aluminum Cover Plate - 100'
5. Pipe - 5'
6. .30 Caliber Bullet - 142'
7. Slag - 172'
8. Shotgun Casing - 150'

10/2/96

Miller, Cook & Kirwan

Start 1515

Stop 1640

ManHrs 4.25

10/3/96

Miller, Cook & Kirwan

Start 1130

Stop 1300

ManHrs 4.5

Total ManHrs 8.75

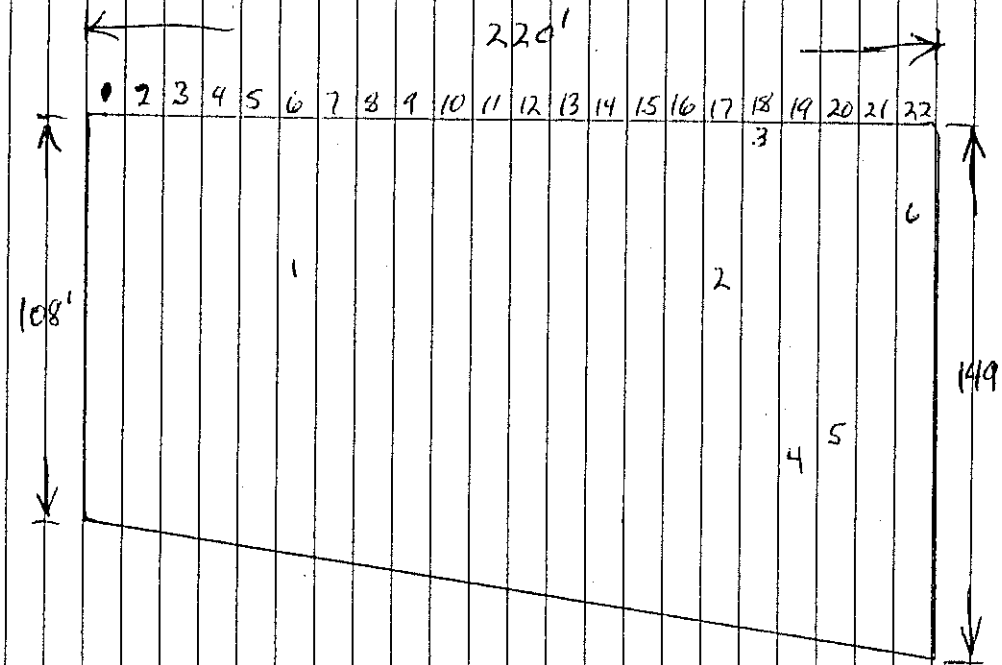
S 38 S 1 10/2/96

Miller, Cook & Kinnear

Start 1115

Stop 1515

Manlifts 12



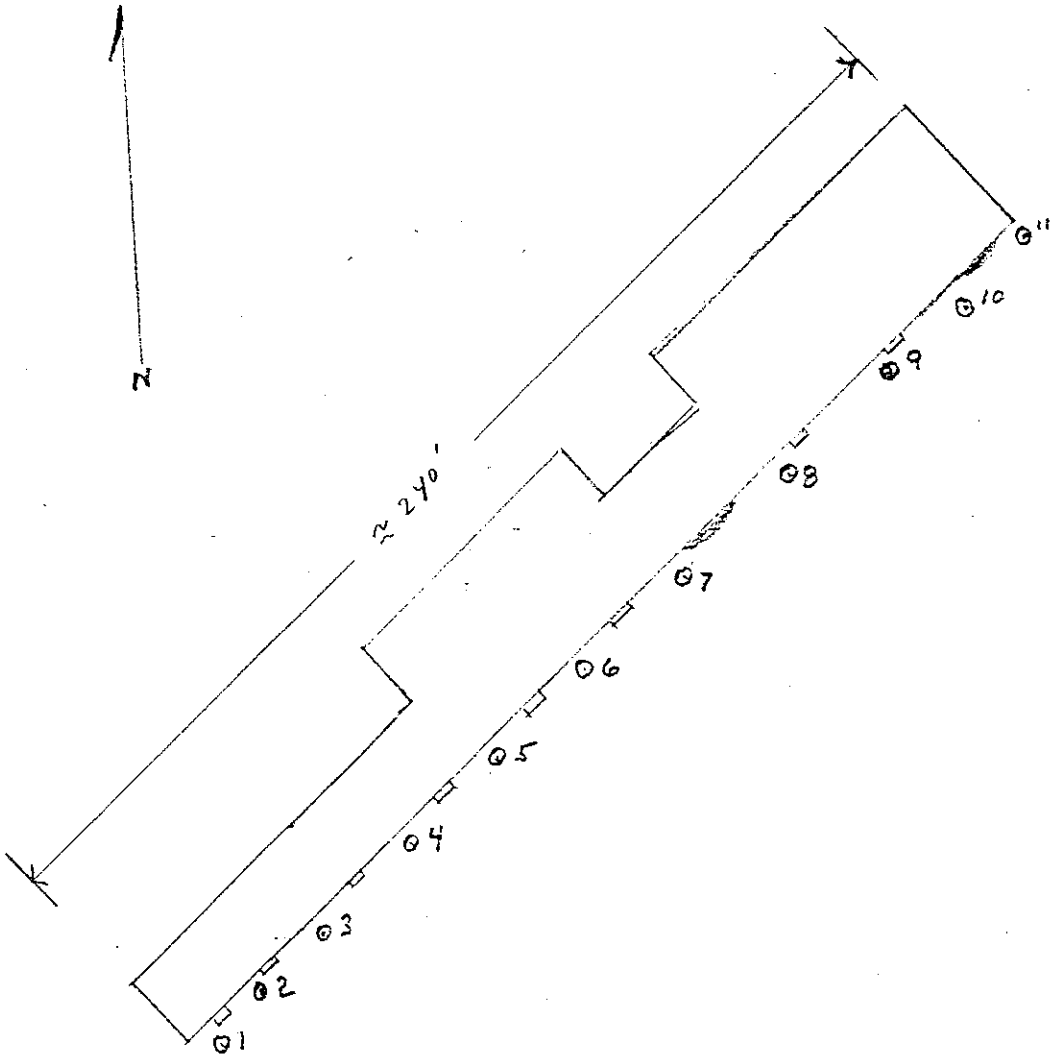
1. wire - 45'
2. Bottle cap - 47'
3. Steel pipe - 2
4. Assorted wire, screws, etc. - 68'
5. wire - 55'
6. Copper screw & strap - 26'

APPENDIX L

SWMU 39 - FORMER WASTEWATER DISCHARGE AREA - BUILDING 2009

SWMU 39

FORMER WASTEWATER DISCHARGE AREA BLDG 2009, TOOK 11 SURFACE SAMPLES (0-2") AND 11 SUBSURFACE SAMPLES (2-8").



SUMMARY OF ACTIVITIES FOR SWMU 39

The implementation of the ICM work plan for SWMU 39 consisted of taking surface (0-2") and subsurface (2-8") samples in 11 locations (see map). All samples were collected behind facility Building 2009 and tested negative for explosives using all three test methods. Surface samples were run as composites on the calorimeter while subsurface samples were run individually.



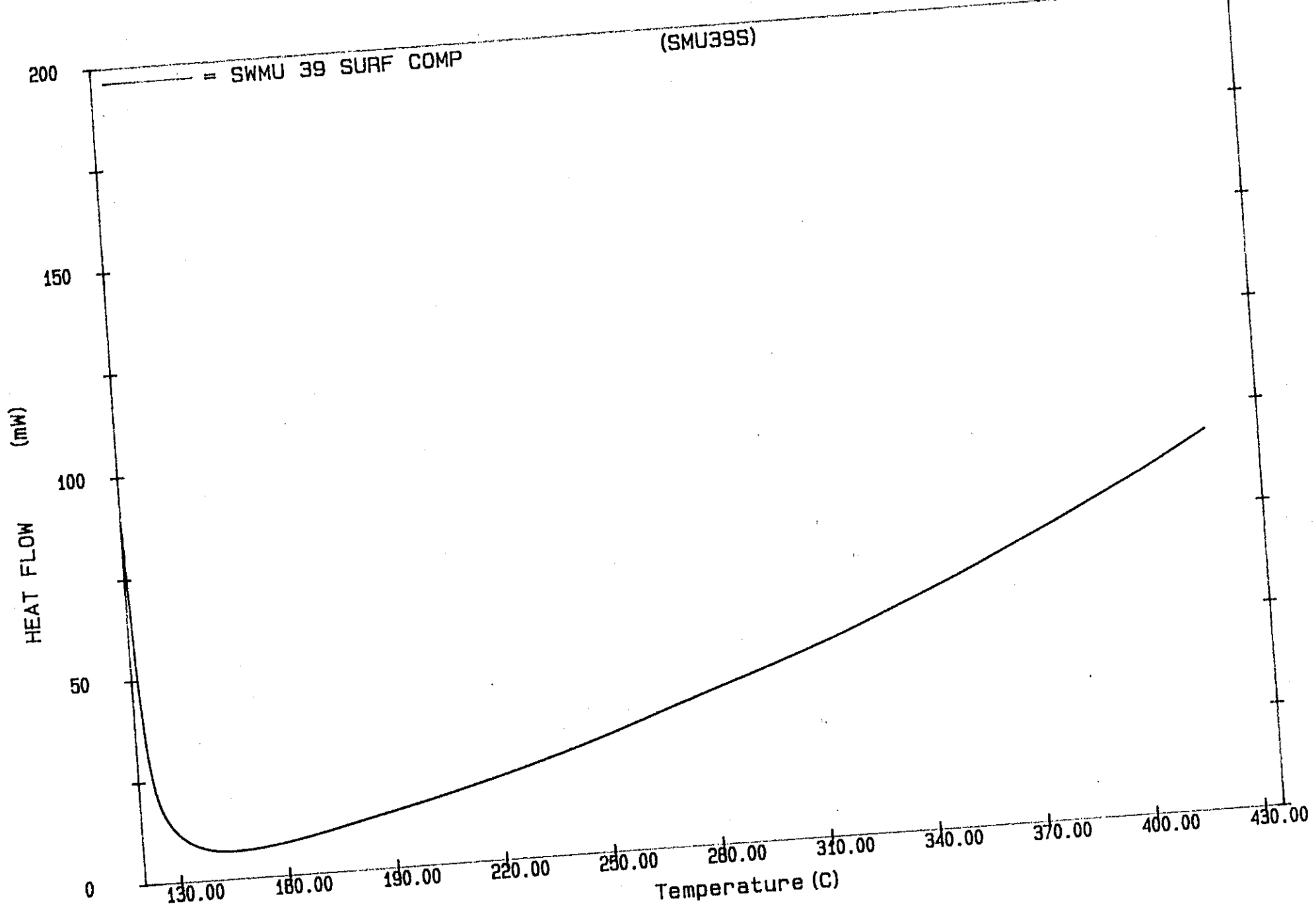


UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-16-96	SMU 39S	N	N	N	N	N	N	N

LEGEND
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 10, 1996 9:55pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: SMU39S ST 8-16-96

NYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8/13/96 SAMPLE NO# 51

FRICTION TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. 1.
2. 2.
3. 3.
4. 4.
5. 5.
6. 6.

CALORIMETRIC TEST: Results

Comp neg

TESTER H. THRIFT / LISON/STAFF

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8/13/96 SAMPLE NO# 52

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST: Results

Comp Neg

TESTER H. THRIFT / Ligon / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8/13/96 SAMPLE NO# S 3

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER H. THRIFT / Lignor S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8/13/96 SAMPLE NO# 54

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook / Ligon / S. Thrit

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8/13/94 SAMPLE NO# S 5

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	Reactive No	DEPTH
1.		✓	1.
2.		✓	2.
3.		✓	3.
4.		✓	4.
5.		✓	5.
6.		✓	6.

CALORIMETRIC TEST:
Results

Comp Neg

TESTER Cook / Ligon / S. Hyt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8/13/96 SAMPLE NO# 5 6

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST: Results

Comp Neg

TESTER Cook/Lyon/S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

SS-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 34 DATE 8/13/96 SAMPLE NO# 57

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER cook / Ligon / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8/13/94 SAMPLE NO# S 8

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook/ Ligon/ S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 34 DATE 8/13/96 SAMPLE NO# 59

FRICTION TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST: Results

Comp Neg

TESTER Cook/Kilgore/S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8/13/96 SAMPLE NO# S 10

FRICTION TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST: Results

Comp Neg

TESTER Cook / Lisson / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8/13/96 SAMPLE NO# S 11

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook / Ligon/S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

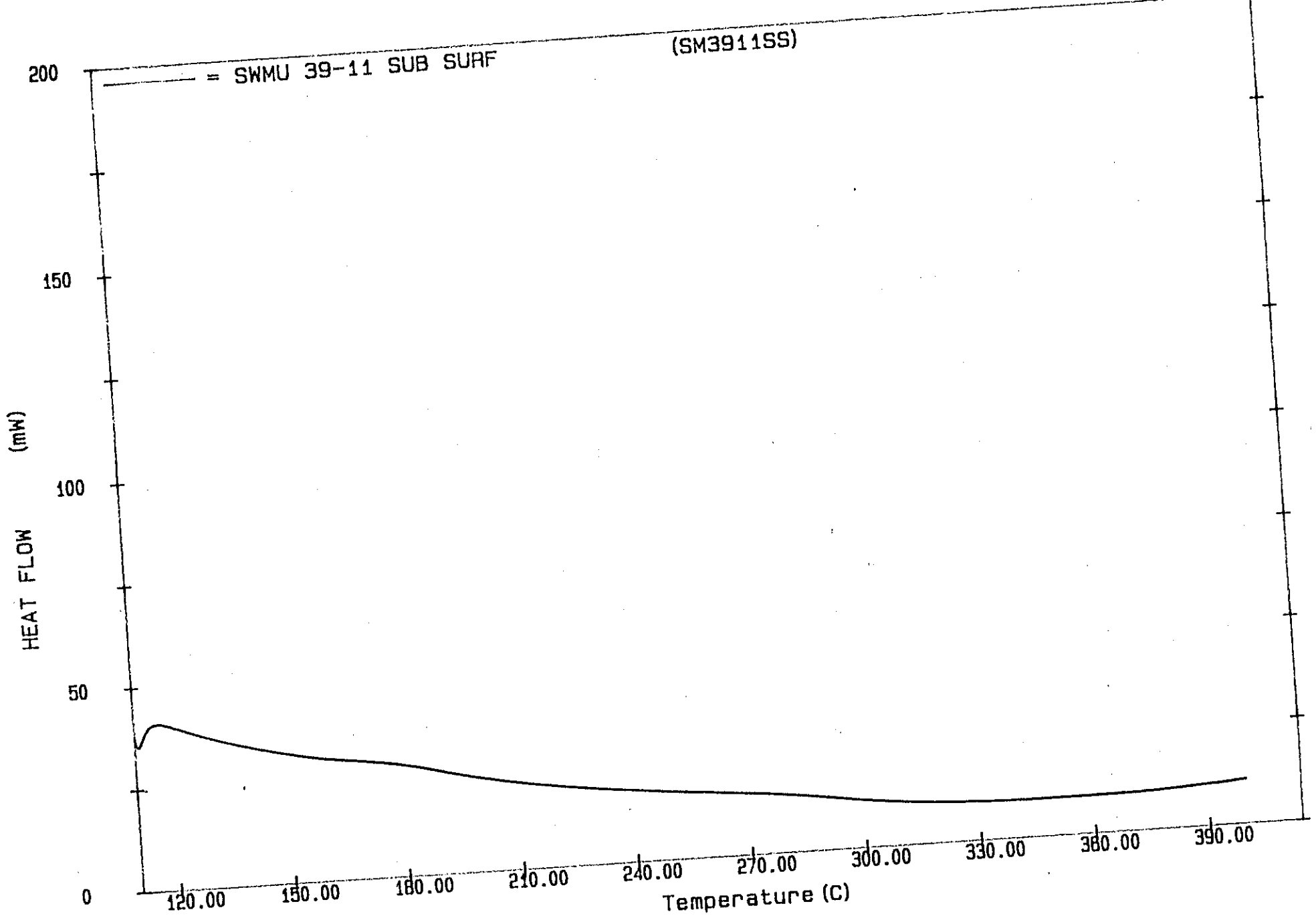
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-4-96	SWM43955							
	1	N	N	N	N	N	N	N
	2	N	N	N	N	N	N	N
	3	N	N	N	N	N	N	N
	4	N	N	N	N	N	N	N
	5	N	N	N	N	N	N	N
	6	N	N	N	N	N	N	N
	7	N	N	N	N	N	N	N
	8	N	N	N	N	N	N	N
	9	N	N	N	N	N	N	N
	10	N	N	N	N	N	N	N
	11	N	N	N				

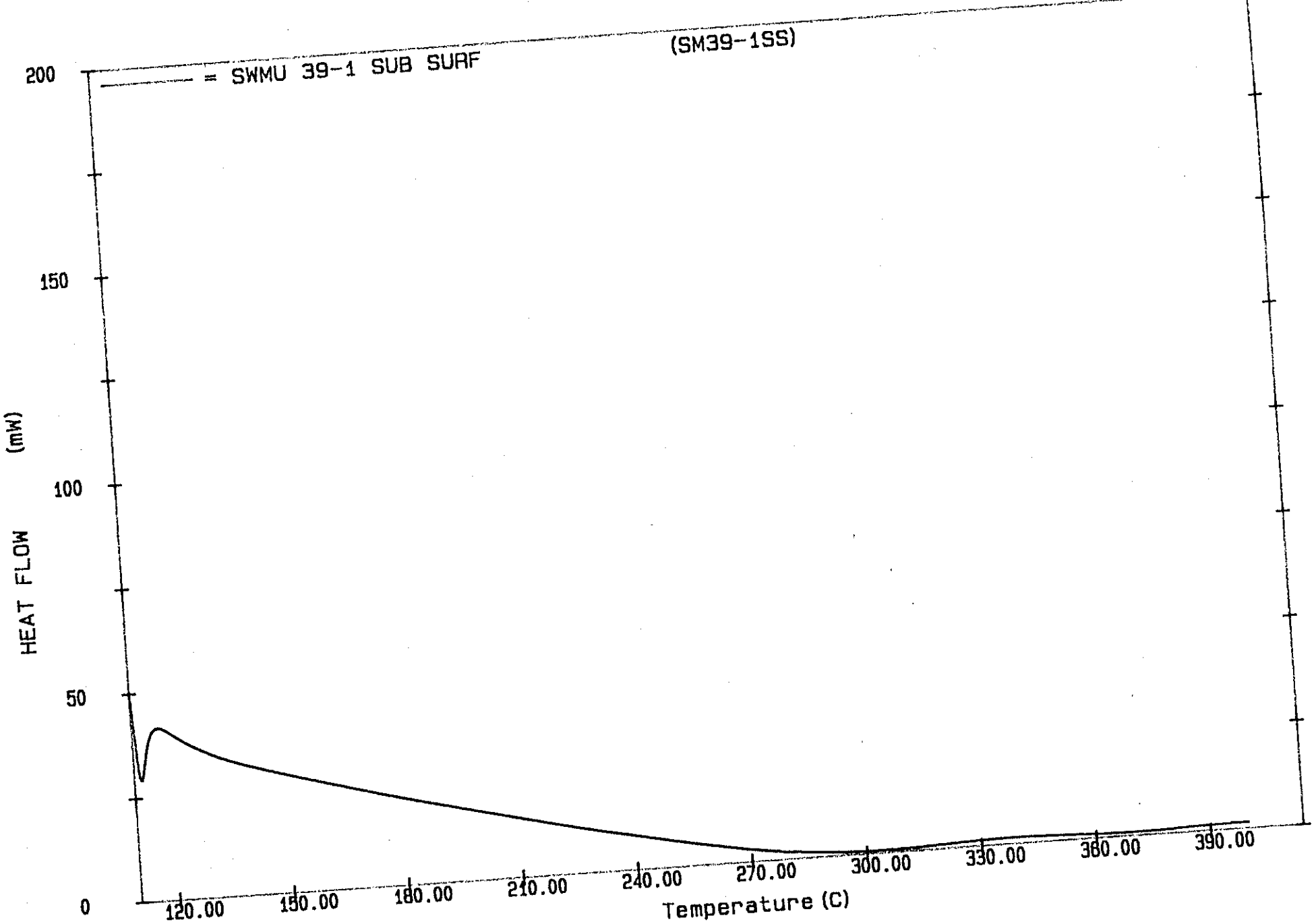
LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



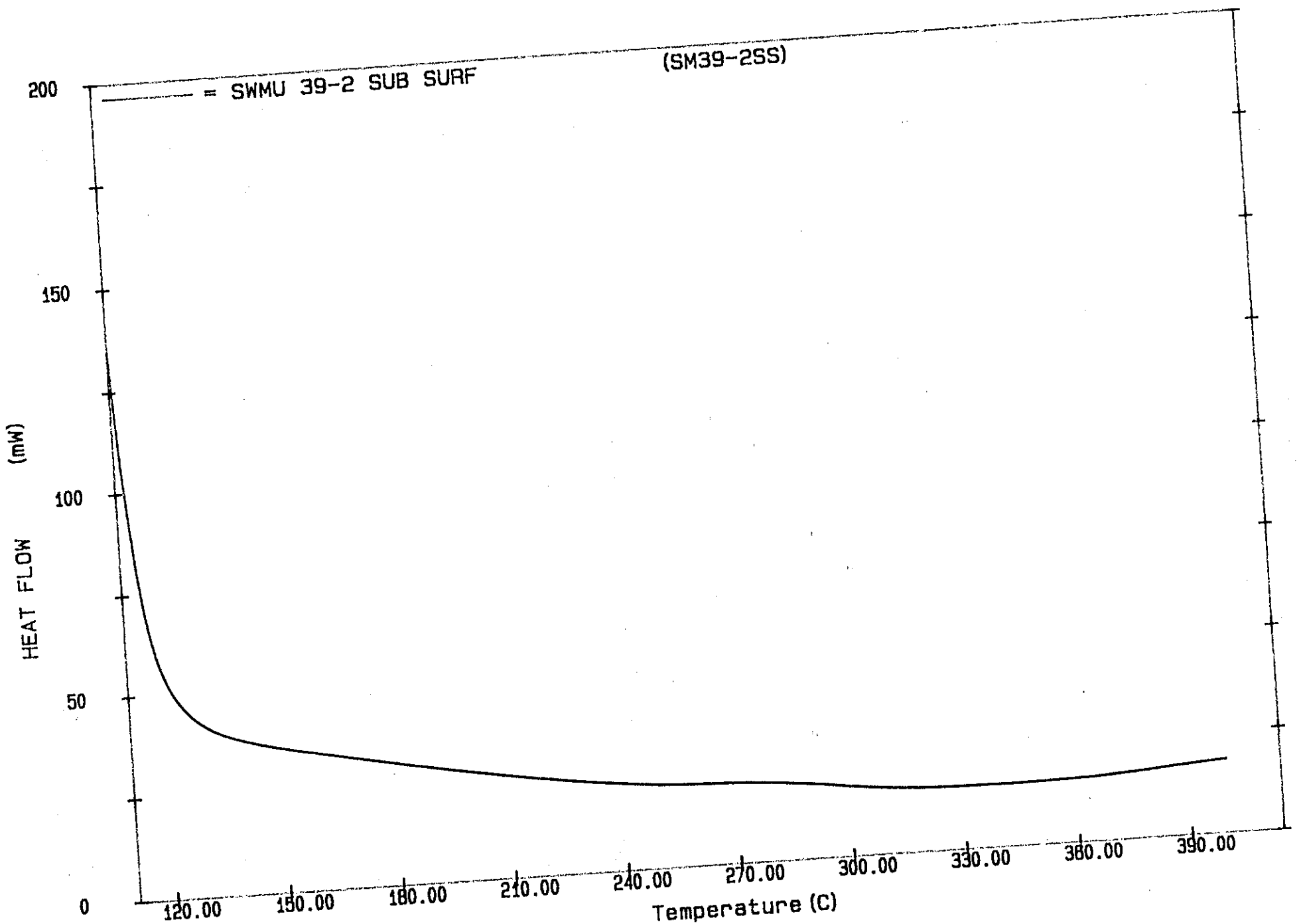
Date: Jul 29, 1996 10:59p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File M3911SS ST 9-4-96

PERKIN-ELMER DSC7



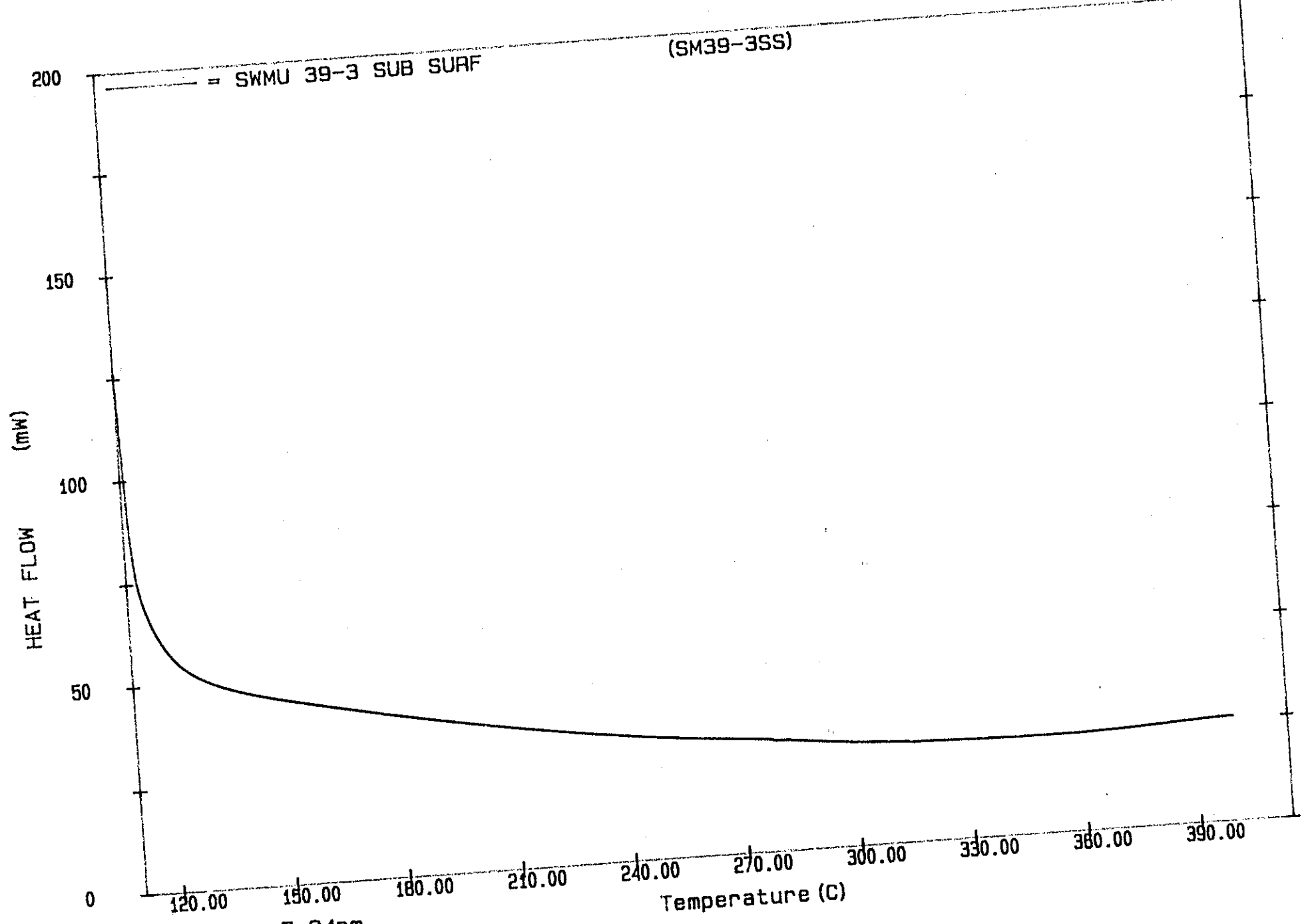
Date: Jul 29, 1996 5:34pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File : 39-1SS ST 9-4-96

PERKIN-ELMER DSC7



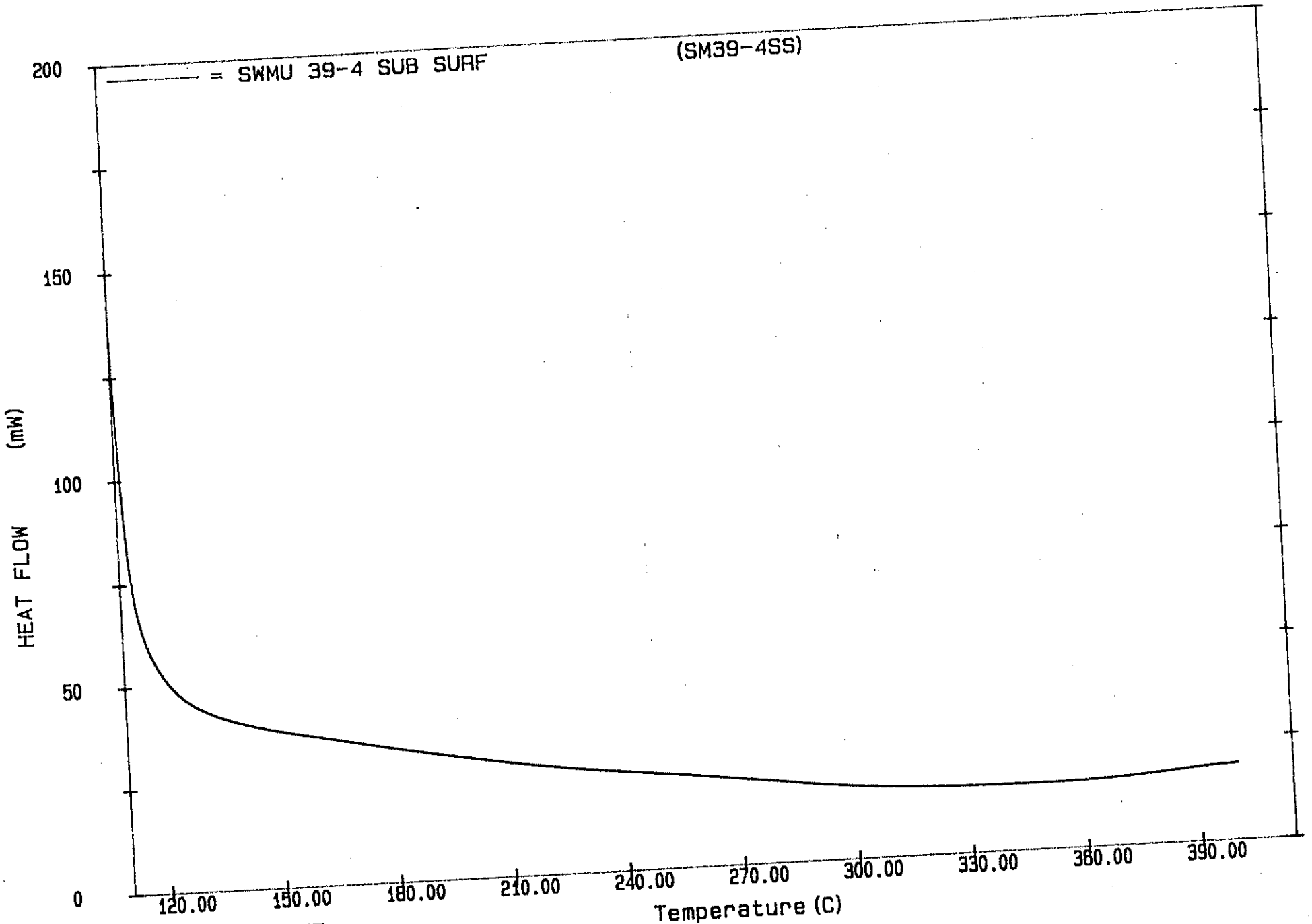
Date: Jul 29, 1996 6: 46pm
Scanning Rate: 20.0 C/min
Samp[illegible] Wt: 0.000 mg Path: C: \PE\
Fil[illegible] SM39-2SS ST 9-4-96

PE[illegible]IN-ELMER DSC7



Date: Jul 29, 1996 7:34pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File SM39-3SS ST 9-4-96

PERKIN-ELMER DSC7



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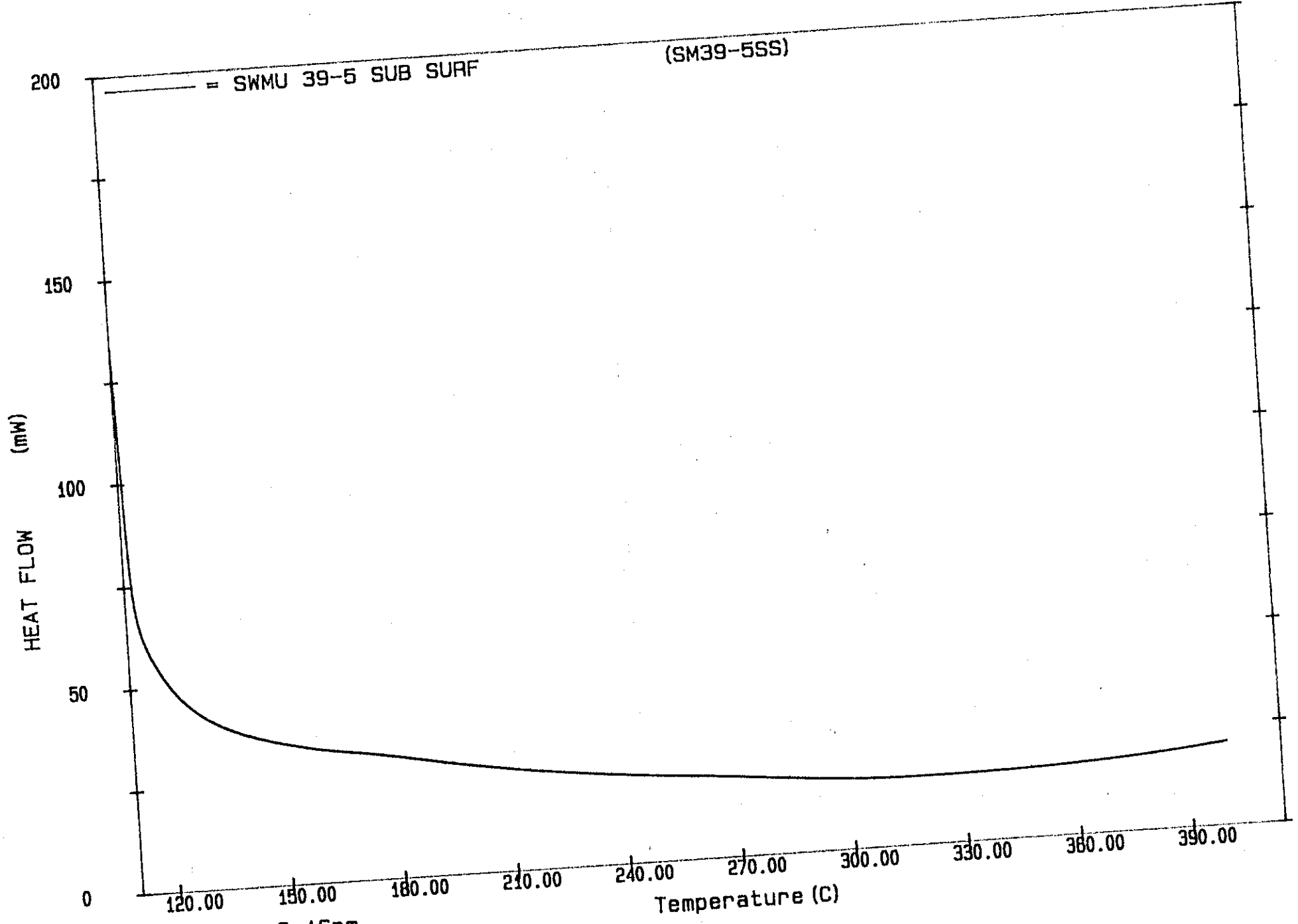
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File 139-4SS ST 9-4-96

PERKIN-ELMER DSC7



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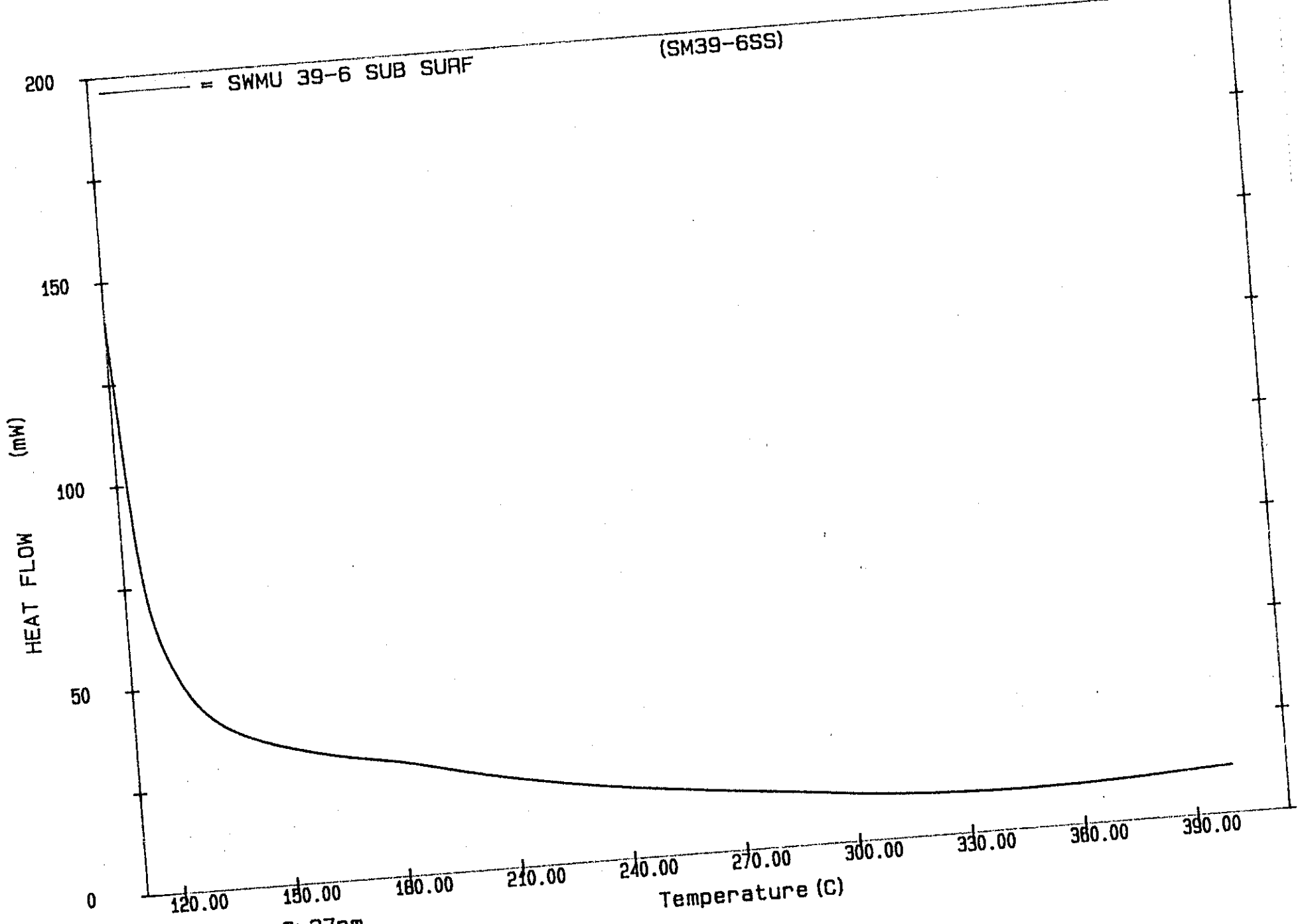
Sample Wt: 0.000 mg Path: C: \PE\
File M39-5SS ST 9-4-96

PER TN-ELMER DSC7



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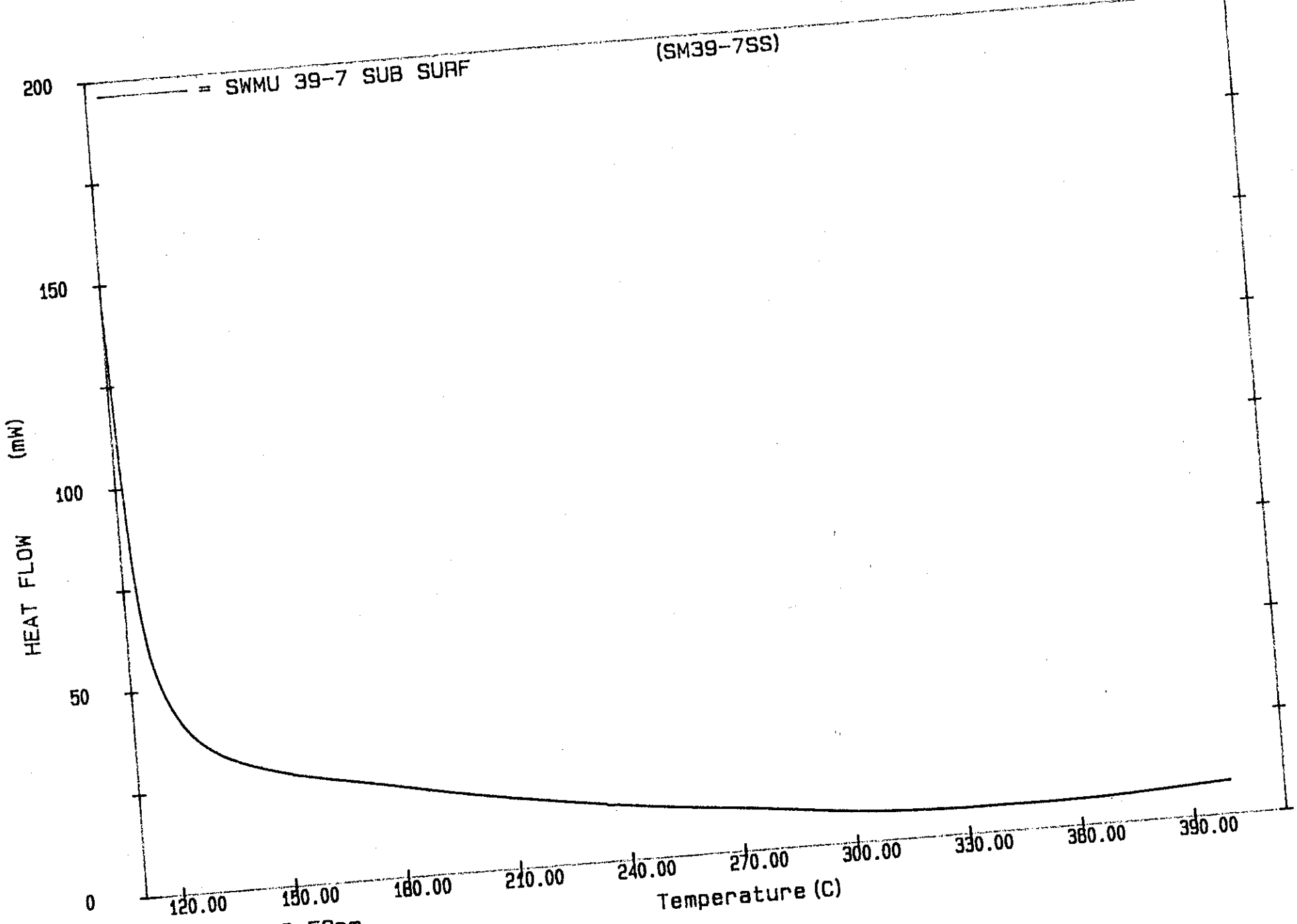
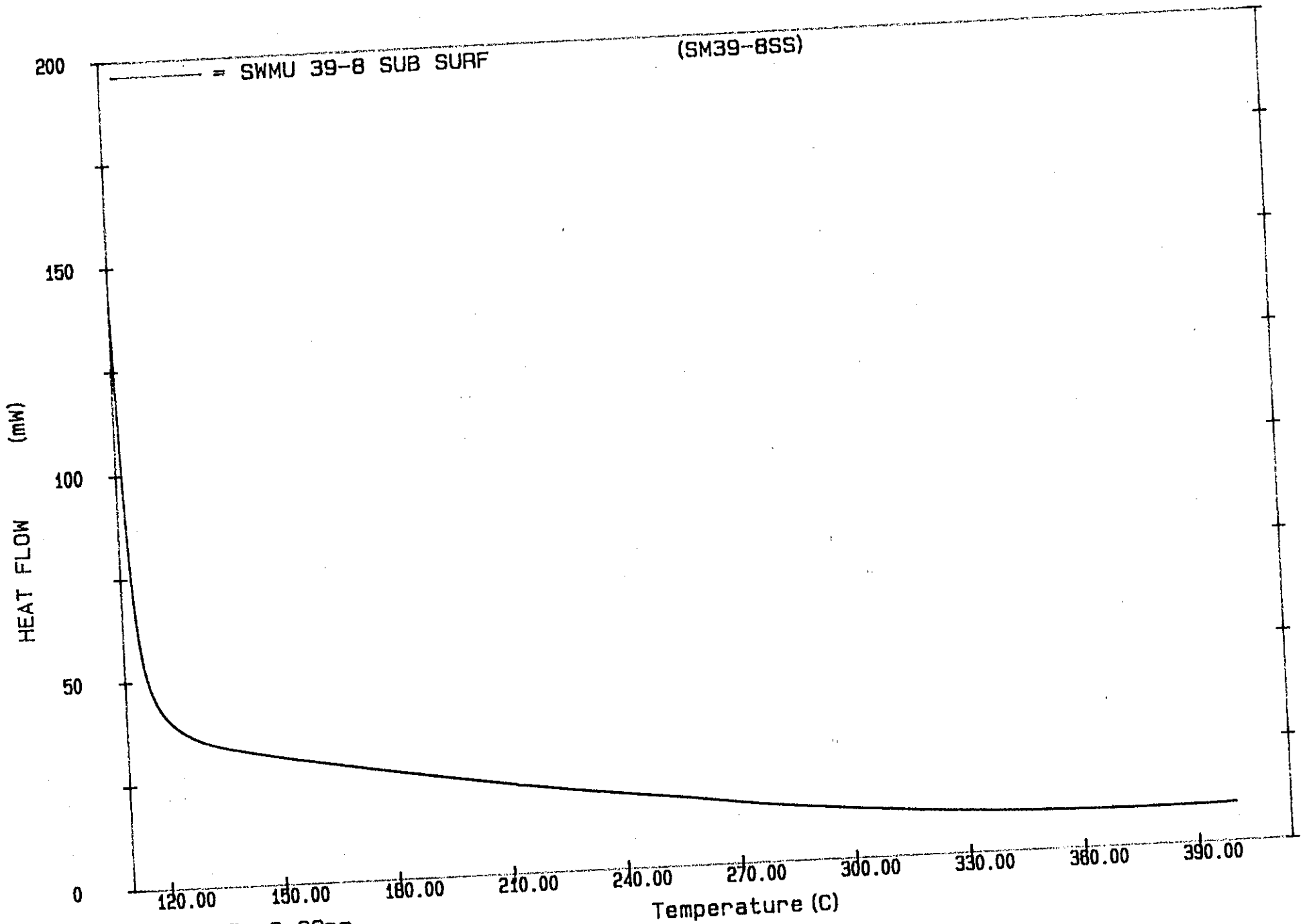
Sample Wt: 0.000 mg Path: C:\PE\
File: SM39-6SS ST 9-4-96

PERKIN-ELMER DSC7



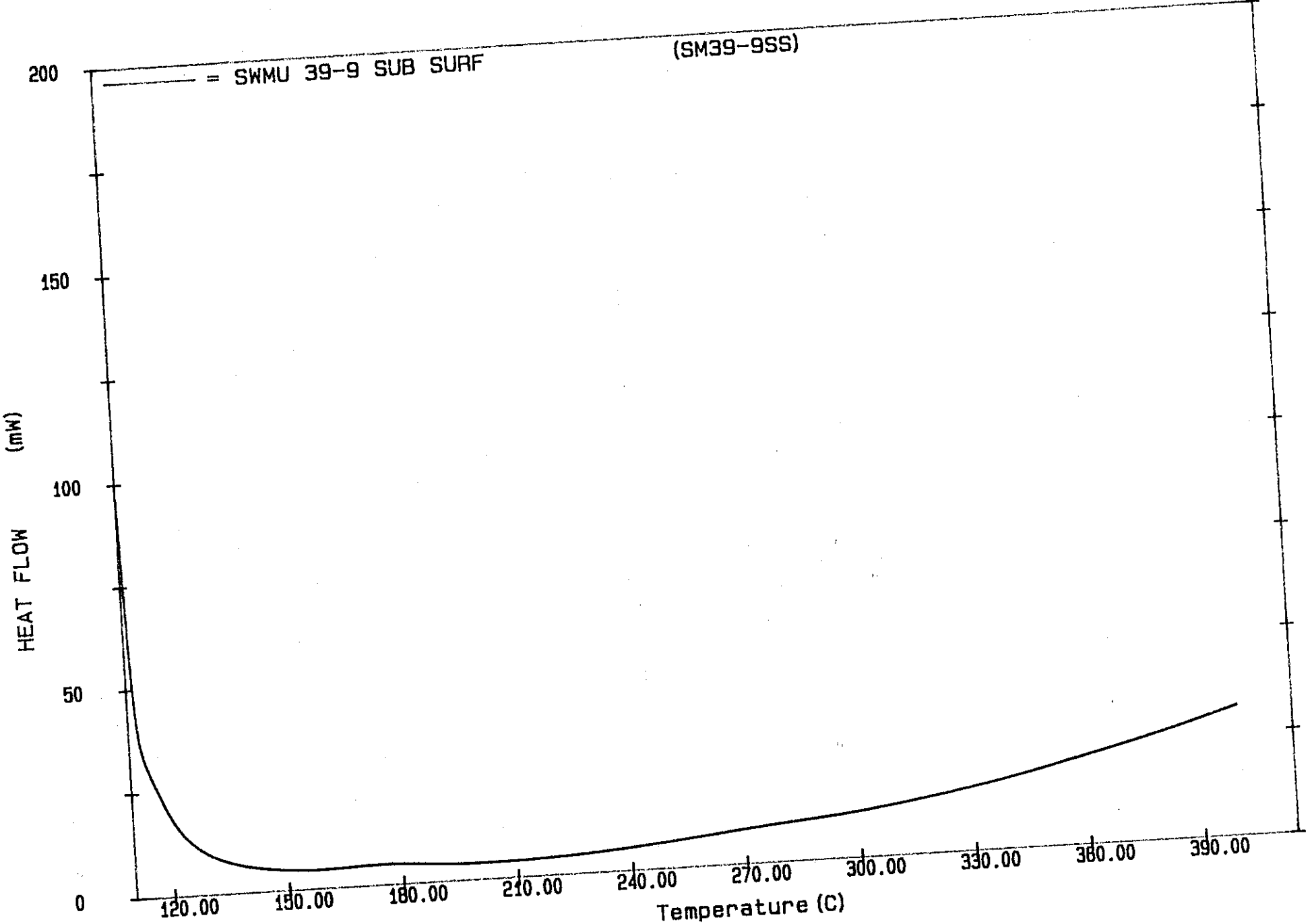
Date: Jul 29, 1996 8:59pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: M39-7SS ST 9-4-96

PERKIN-ELMER DSC7



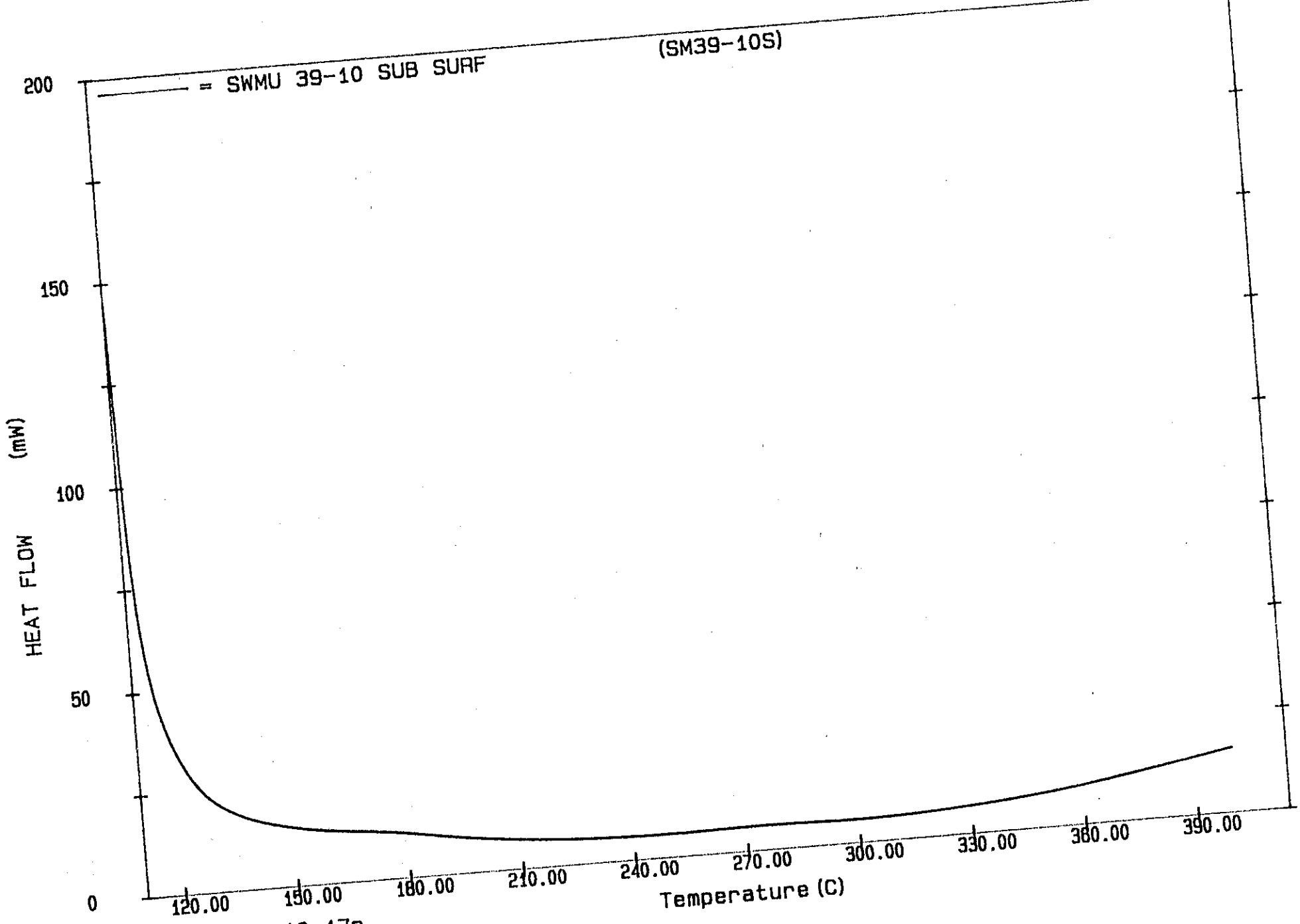
Date: Jul 29, 1996 9: 22pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
Fil[illegible] 39-8SS ST 9-4-96

PERKIN-ELMER DSC7



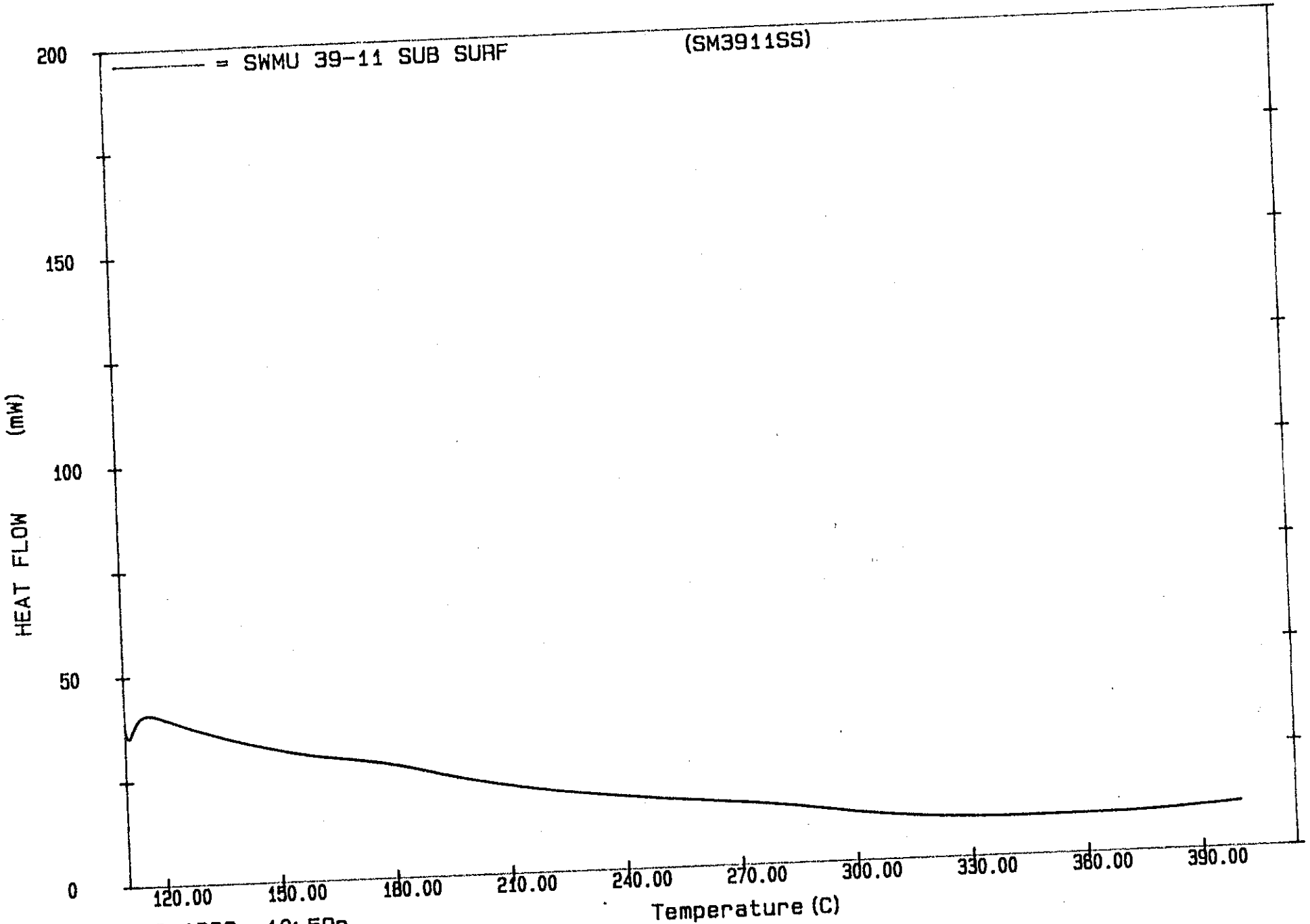
Date: Jul 29, 1996 9: 49pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File: SM39-9SS ST 9-4-96

PERKIN-ELMER DSC7



Date: Jul 29, 1996 10: 17p
Scanning Rate: 20.0 C/min
Samp' Wt: 0.000 mg Path: C: \PE\
Fil SM39-10S ST 9-4-96

PERKIN-ELMER DSC7



Date: Jul 29, 1996 10:59p
Scanning Rate: 20.0 C/min
Sample wt: 0.000 mg Path: C:\PE\
File 13911SS ST 9-4-96

PERKIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 1

TESTER Ligon Cook / Schmit

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes	No	Yes	No			
1.		/		/	1.	1.	Neg
2.		/	/		2.	2.	
3.		/		/	3.	3.	
4.		/		/	4.	4.	
5.		/		/	5.	5.	
6.		/		V	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 2

TESTER Ligon / Cook / Shupt

FRICTION TEST: / IMPACT TEST: DEPTH

CALORIMETRIC TEST:
Results

	Reactive Yes	Reactive No		
1.		/	1.	1.
2.		/	2.	2.
3.		/	3.	3.
4.		/	4.	4.
5.		/	5.	5.
6.		/	6.	6.

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 3

TESTER Ligon Cook / S Thyt

FRICTION TEST:

	Reactive Yes	Reactive No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

IMPACT TEST: DEPTH

	Reactive Yes	Reactive No	DEPTH	
1.		/	1.	1.
2.	/		2.	2.
3.	/		3.	3.
4.	/		4.	4.
5.	/		5.	5.
6.	/		6.	6.

CALORIMETRIC TEST:
Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 4

TESTER Ligon / Cook / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	/	1.	/	1.	1.	Neg
2.	/	2.	/	2.	2.	
3.	/	3.	/	3.	3.	
4.	/	4.	/	4.	4.	
5.	/	5.	/	5.	5.	
6.	/	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 5

TESTER Ligon / Cook / Schmidt

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

IMPACT TEST: DEPTH

	Reactive Yes	Reactive No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 6

TESTER Ligon / Cook / Shift

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 7

TESTER Ligon / Cook / Schaft

FRICTION TEST:

	Reactive Yes	No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

IMPACT TEST: DEPTH

	Reactive Yes	No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 8

TESTER ligon / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	/	1.	1.	Neg
2.	/	2.	/	2.	2.	
3.	/	3.	/	3.	3.	
4.	/	4.	/	4.	4.	
5.	/	5.	/	5.	5.	
6.	/	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 9

TESTER Ligon / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	/	1.	/	1.	1.
2.	/	2.	/	2.	2.
3.	/	3.	/	3.	3.
4.	/	4.	/	4.	4.
5.	/	5.	/	5.	5.
6.	/	6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 10

TESTER Ligon / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 39 DATE 8-19-96 SAMPLE NO# SS 11

TESTER Ligon / Cook / S Hart

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	CALORIMETRIC TEST: Results
Yes	No	Yes	No		
1.	✓	1.	✓	1.	1.
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

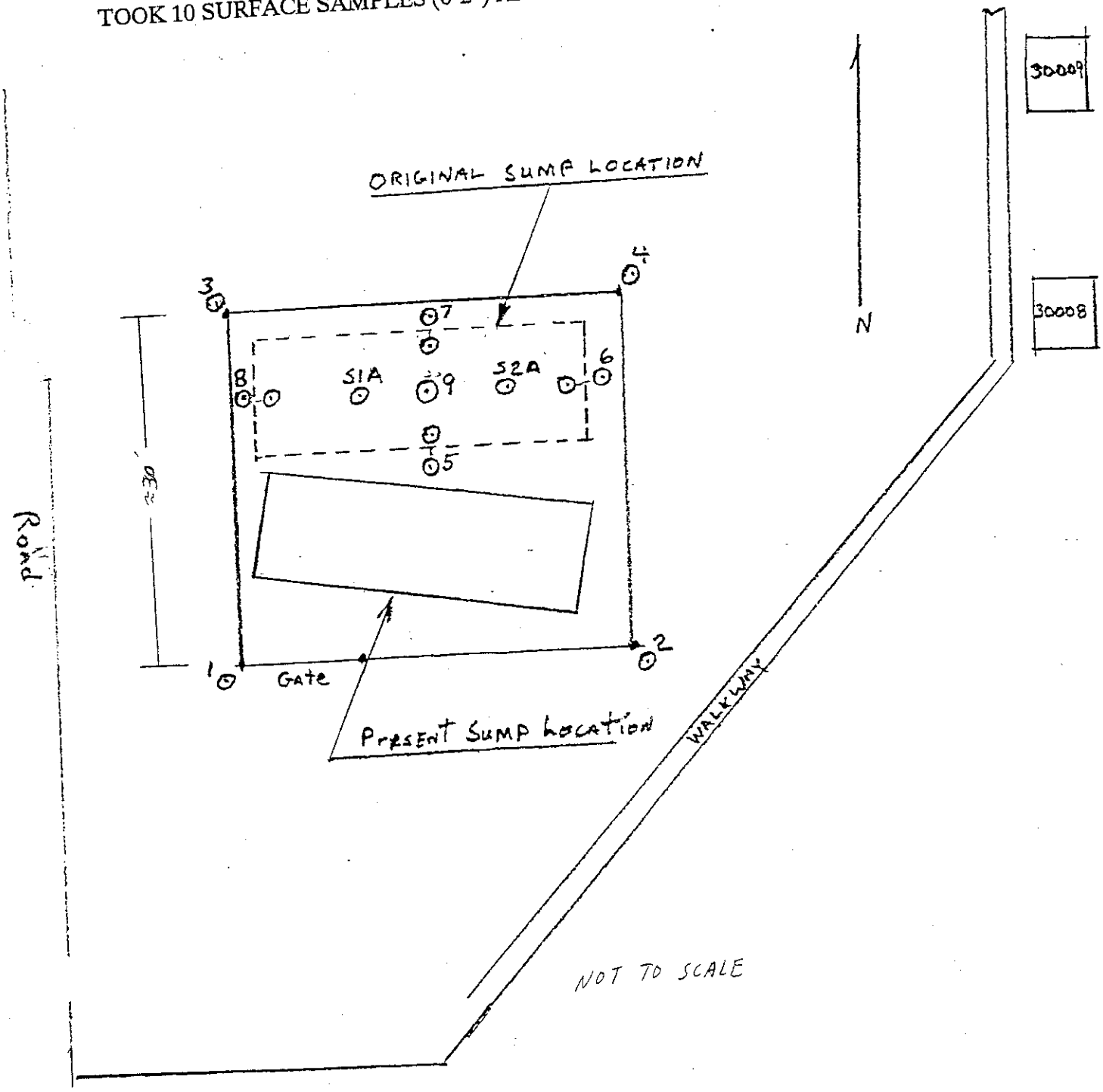
APPENDIX M

SWMU 40 - PILOT LINE CONDENSATE COLLECTION SUMP

SWMU 40

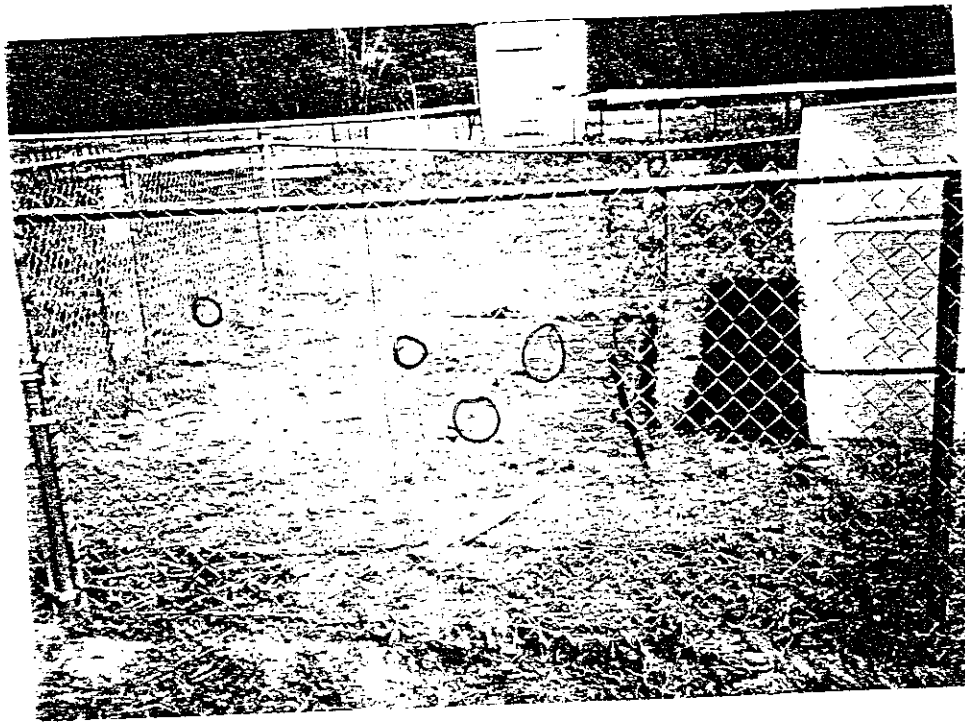
PILOT LINE COLLECTION SUMP, LOCATED SOUTH OF BLDG 2062 (DESTROYED).

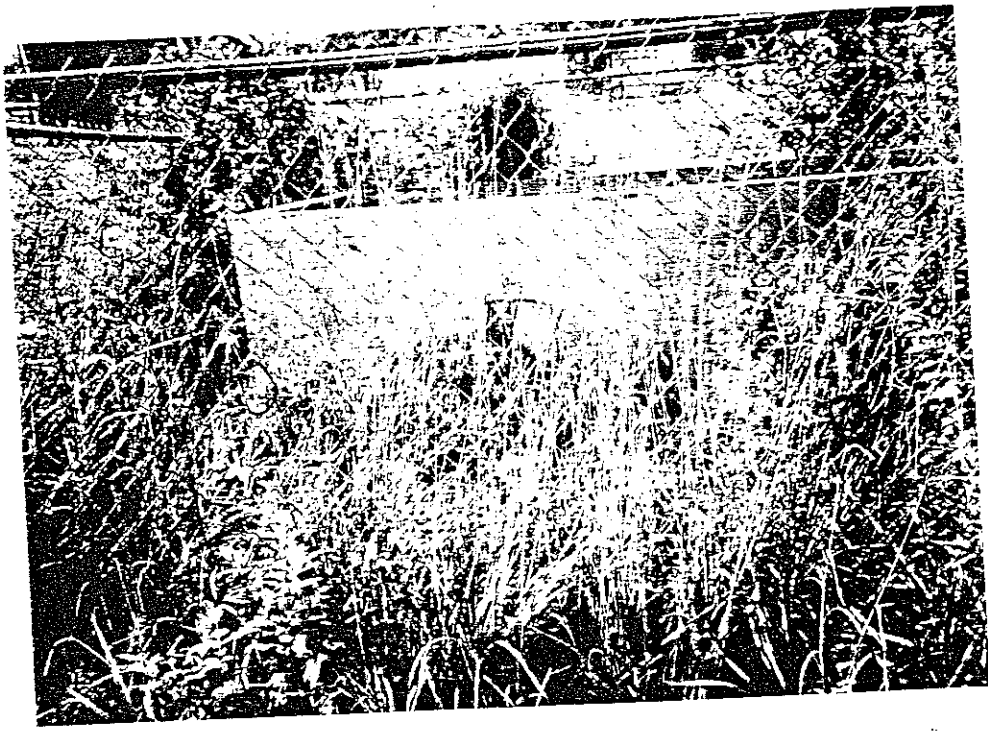
TOOK 10 SURFACE SAMPLES (0-2") AND 9 SUBSURFACE SAMPLES (2-8").



SUMMARY OF ACTIVITIES FOR SWMU 40

The implementation of the ICM work plan for SWMU 40 consisted of taking 10 surface (0-2") and 9 subsurface (2-8") samples. Samples 1-4 were collected at each corner of the fence surrounding the sump. Surface samples 5-8 were collected from the soil surrounding the concrete sump. The sump was then removed and subsurface samples at locations 5 through 9 were collected from the soils beneath the sump. Sample 9 was collected as a subsurface sample only. Samples S1A and S2A were collected as additional surface samples. Due to a temporary problem with the calorimeter, results from surface samples 1-8 were invalid and are not included in this report. Based on results of friction/impact from the surface samples as well as data from the subsurface samples, there are no explosives present at explosive concentrations.





UXB INTERNATIONAL

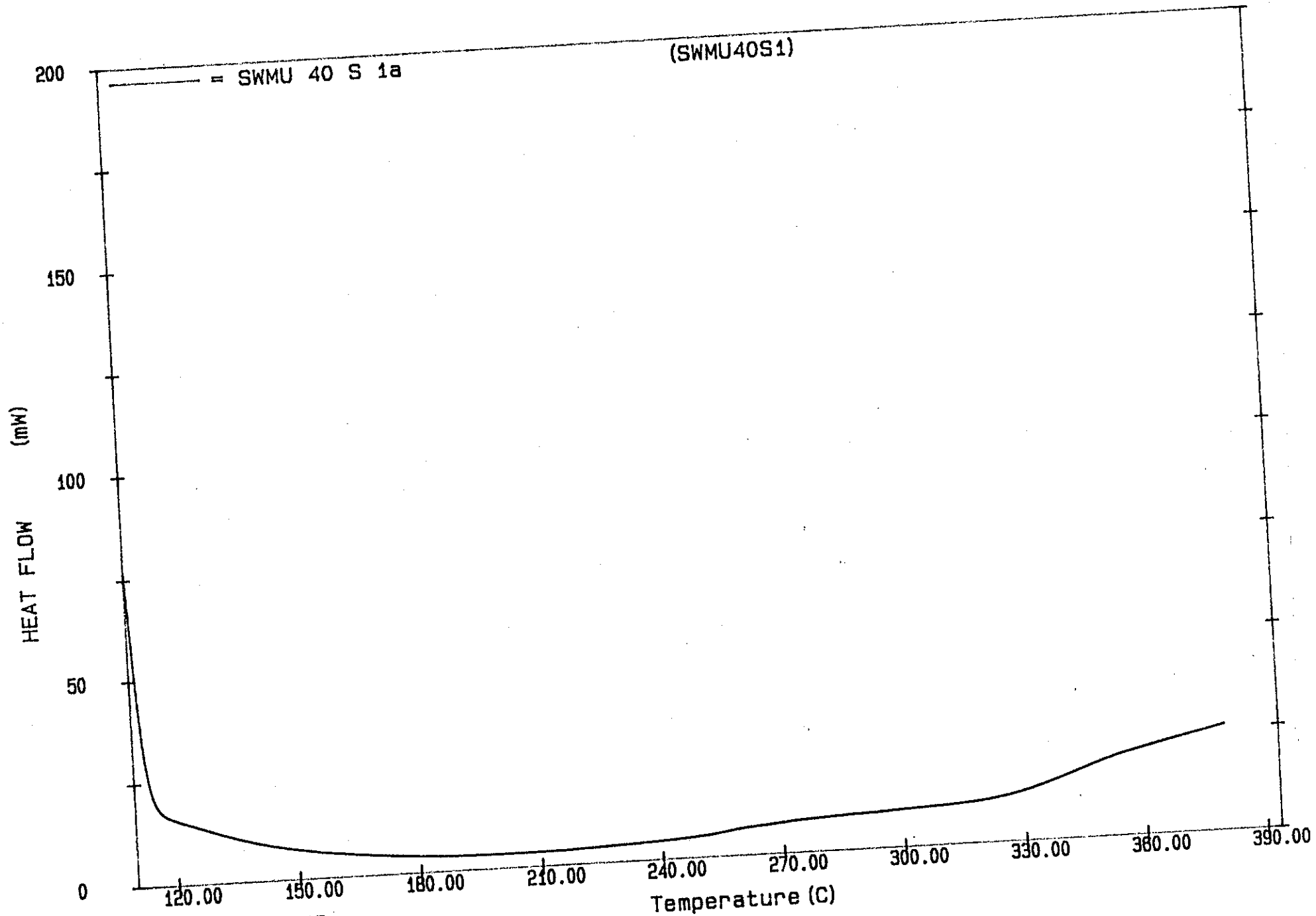
PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
		N	N	N	N	N	N	N
8-19-96	SMU 40S1A	N	N	N	N	N	N	N
	" 2A	N	N	N	N	N	N	N

LEGEND

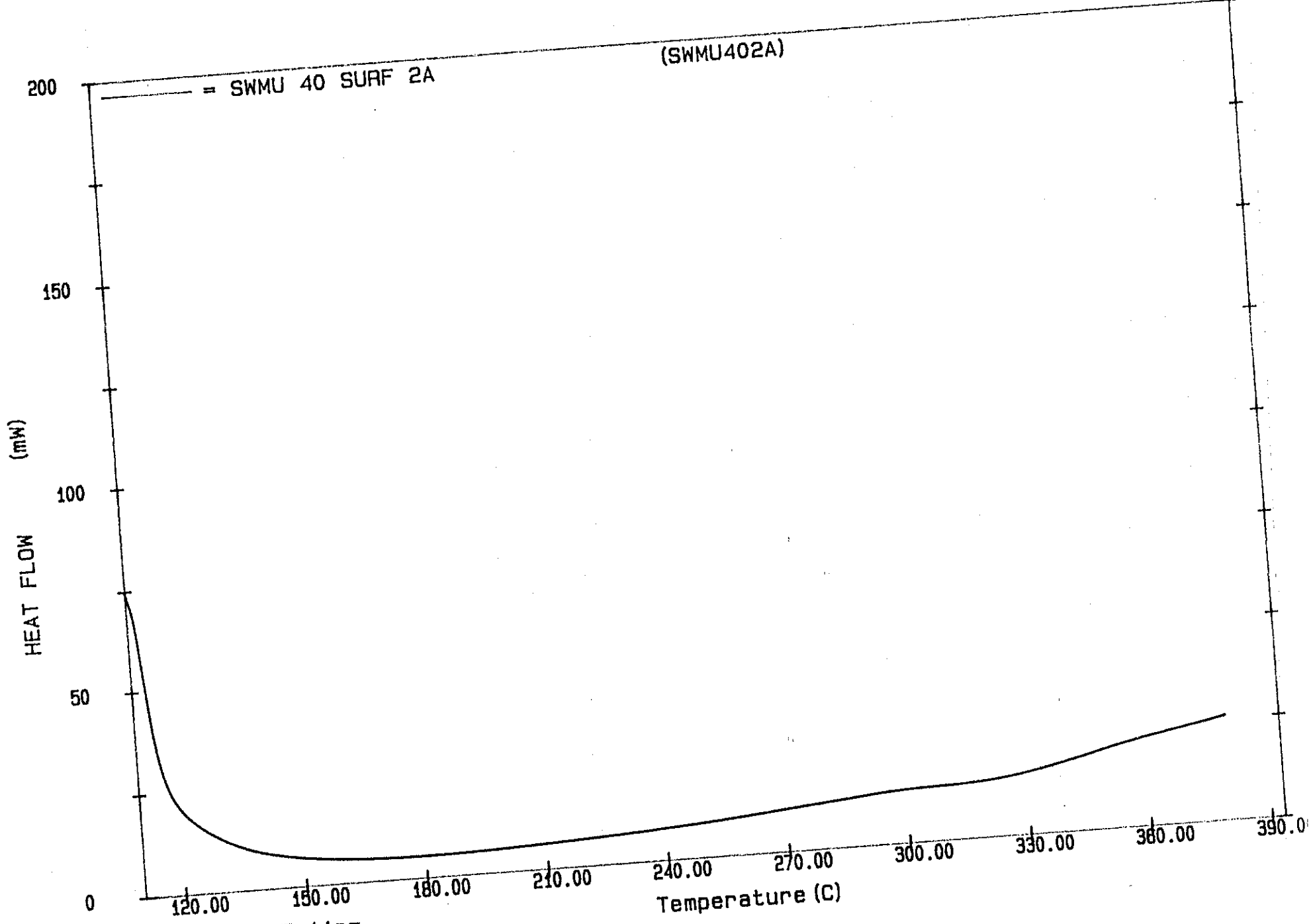
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0

* calorimetric data on Swmu 40 surface samples 1-8 not available due to problems with DSC



Date: Jul 13, 1996 4: 48pm
Scanning Rate: 20.0 C/min
Sam[illegible] Wt: 0.000 mg Path: UXB\
F[illegible]: SWMU40S1 ST 9-19-96

DYNO NOBEL



Date: Jul 13, 1996 5: 11pm
Scanning Rate: 20.0 C/min
Sa e Wt: 0.000 mg Path: UXB\
1: SWMU402A ST 8-19-96

DYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8-12-96 SAMPLE NO# @51

FRICTION TEST: Reactive	Yes	No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

IMPACT TEST: Reactive	Yes	No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

DEPTH	
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST: Results

Comp neg

TESTER Cook / Thrift / S. Thyt

Comments:
4000 gram friction weight
1 Kg on Impact Test

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8-12-96 SAMPLE NO# 52

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Thrift / Cook / S Thist

Comments:
4000 gram friction weight
1 Kg on Impact test

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8-12-96 SAMPLE NO# 53

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Comp Neg
1.	/	1.	/	1.	1.	
2.	/	2.	/	2.	2.	
3.	/	3.	/	3.	3.	
4.	/	4.	/	4.	4.	
5.	/	5.	/	5.	5.	
6.	/	6.	/	6.	6.	

TESTER Thrift/Cook/S. Thrift

Comments:
4000 gram friction weight
1 Impact test

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8-12-96 SAMPLE NO# 54

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

DEPTH

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST:
Results
Comp Neg

TESTER Thrift / Cook / S. Thrift

Comments:
4000 gram friction weight
1 Kg Impact Test

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 46 DATE 8-12-96 SAMPLE NO# S5

FRICTION TEST: Reactive	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: Reactive	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.	✓	
6.	✓	

DEPTH	
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST:
Results
Comp Neg

TESTER Thrift / Cook / S. Thist

Comments:
4000 gram friction weight
1 Kg on Impact test

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8-12-96 SAMPLE NO# 56

FRICTION TEST:

	Reactive Yes	Reactive No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

IMPACT TEST:

	Reactive Yes	Reactive No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

DEPTH

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST:

Results

Comp Neg

TESTER Thrift/Cook/S. Thrift

Comments:

4000 gram friction weight

1 Kg on Impact test

(S)-SURFACE

SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8-12-96 SAMPLE NO# 57

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Key
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Thrift / Cook / S. Thrift

Comments:
4000 gram friction weight
1 Kg on impact test

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8-12-96 SAMPLE NO# 58

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Comp Neg
1.	/	1.	/	1.	1.	
2.	/	2.	/	2.	2.	
3.	/	3.	/	3.	3.	
4.	/	4.	/	4.	4.	
5.	/	5.	/	5.	5.	
6.	/	6.	/	6.	6.	

TESTER Thrift / Cook / S. Thrift

Comments:
4000 gram friction weight
1 Kg on impact test

(S)--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 9/16/96 SAMPLE NO# ~~SS~~ S 1A

TESTER Logan Locke / S. Hart

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			~~Copy~~ Neg
1.	X	1.	✓	1.	1.	
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8/16/96 SAMPLE NO# ~~SS~~ S 2A

TESTER Ligon/cook /S Shirt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1. Neg
2.	X	2.	✓	2.	2.
3.	X	3.	✓	3.	3.
4.	X	4.	✓	4.	4.
5.	X	5.	✓	5.	5.
6.	X	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
	Sm4-40 SS							
8-20-96	40-1	N	N	N	N	N	N	N *
	40-2	N	N	N	N	N	N	N
	40-3	N	N	N	N	N	N	N
	40-4	N	N	N	N	N	N	N
	40-5	N	N	N	N	N	N	N
	40-6	N	N	N	N	N	N	N
	40-7	N	N	N	N	N	N	N
	40-8	N	N	N	N	N	N	N
	40-9	N	N	N				

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

LS= LEAD STYPHYNATE

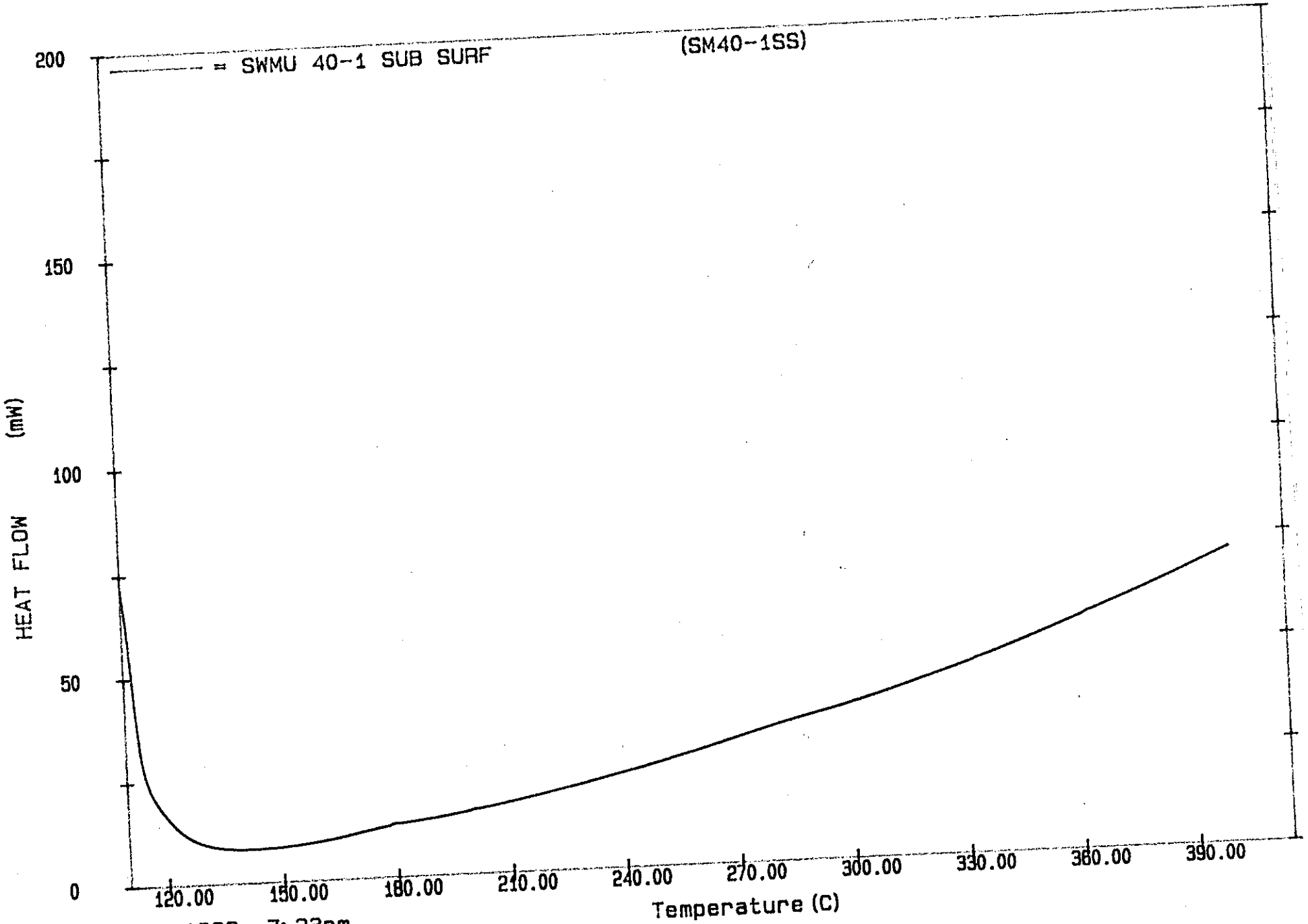
TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

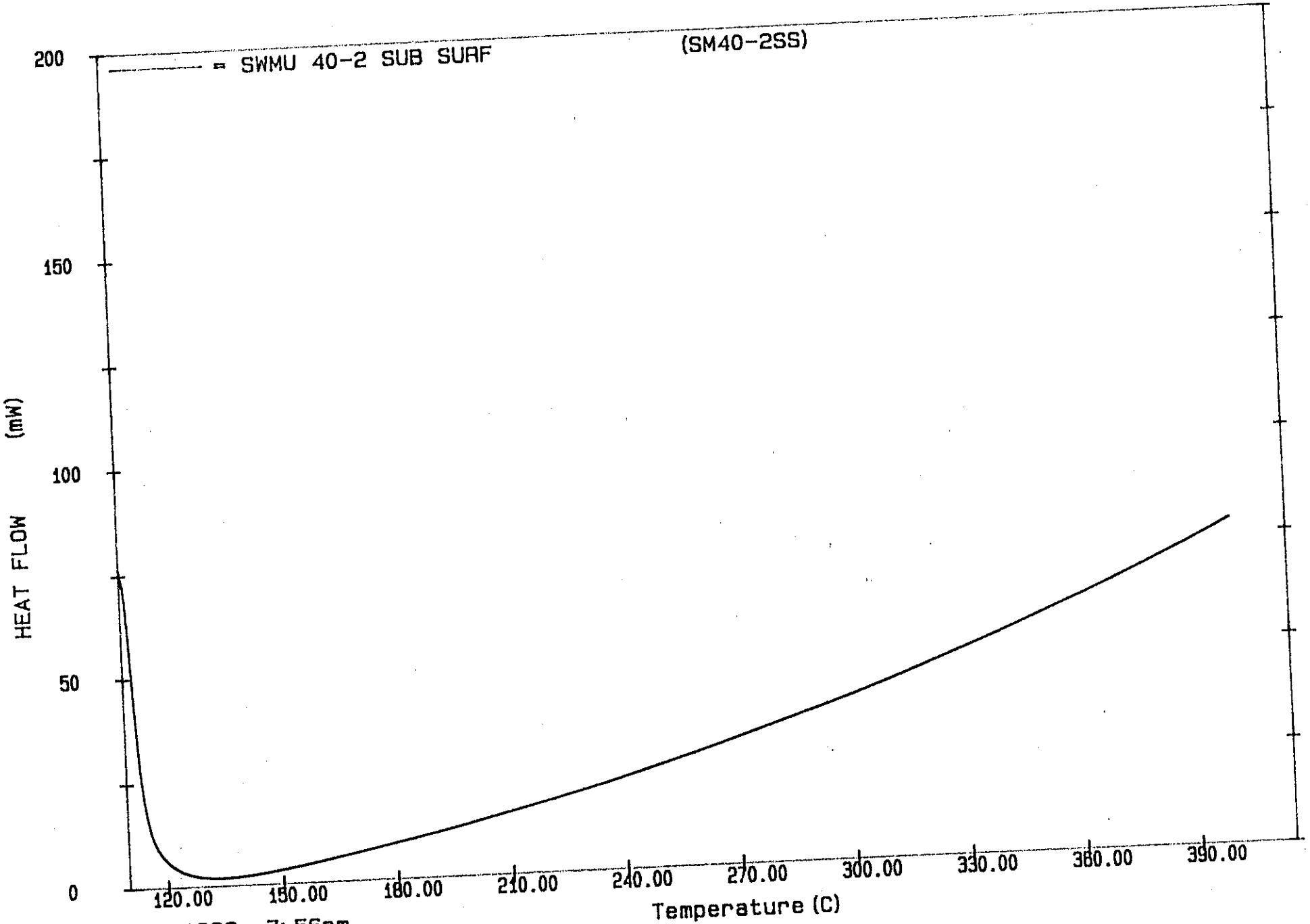
N= N0

* slight peak at 180°C avoid repeat TEST



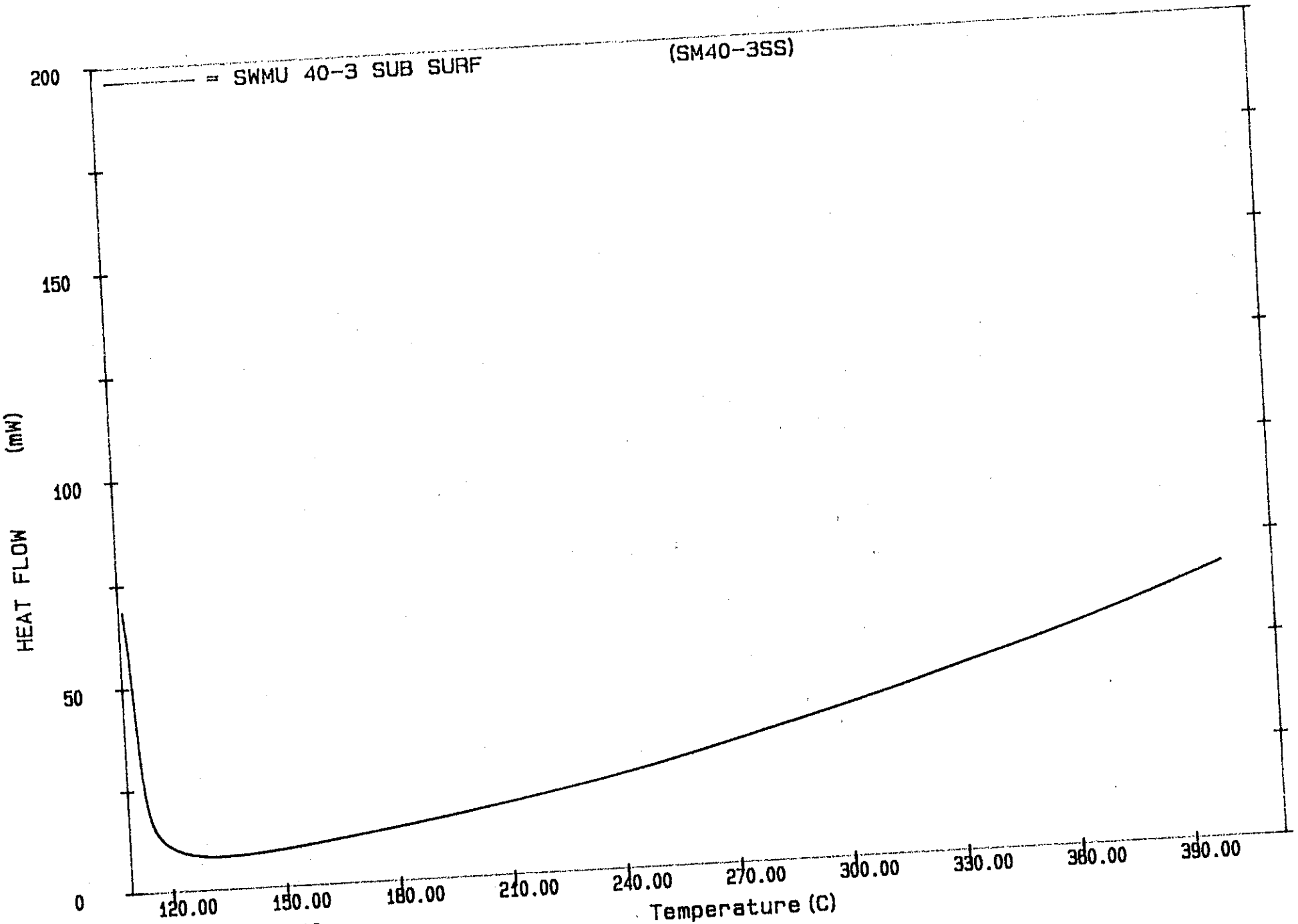
Date: Jul 14, 1996 7:33pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: SM40-1SS ST 8-20-96

DYNO NOBEL



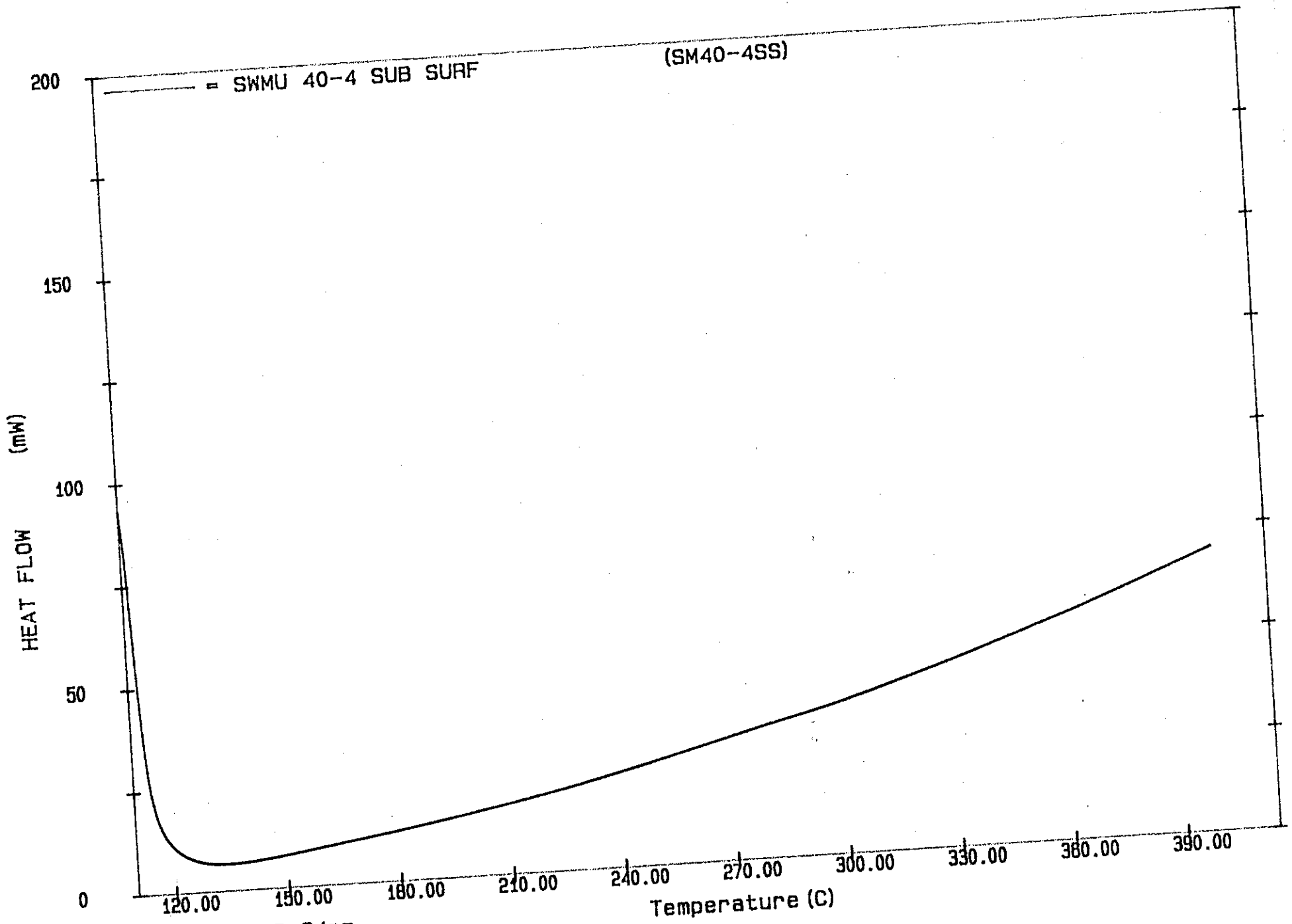
Date: Jul 14, 1996 7:56pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
F1 SM40-2SS ST 8-20-96

TYNO NOBEL



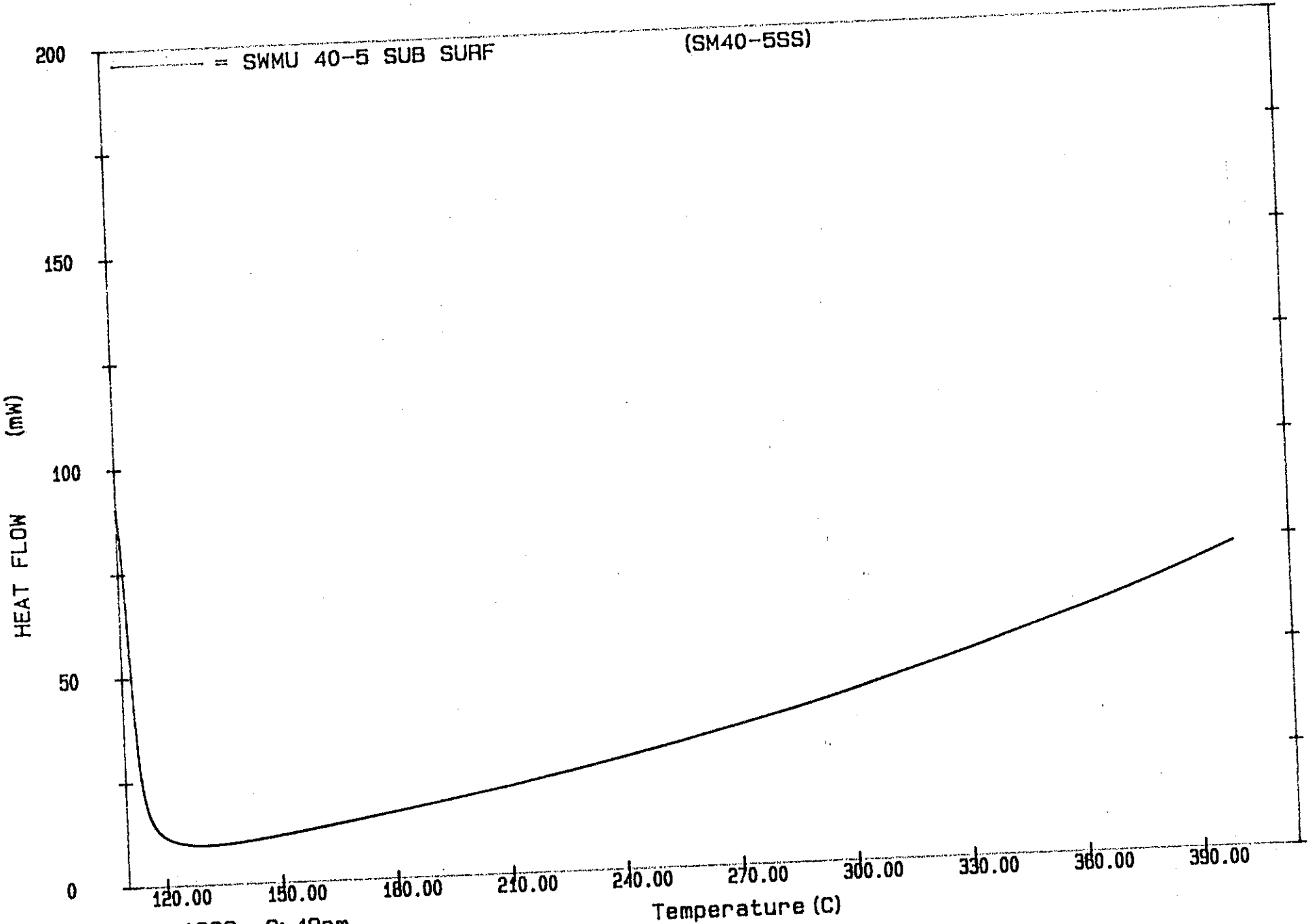
Date: Jul 14, 1996 8:40pm
Scanning Rate: 20.0 C/min
Sample t: 0.000 mg Path: UXB\
File ...SM40-3SS ST 8-20-96

NYNO NOBEL



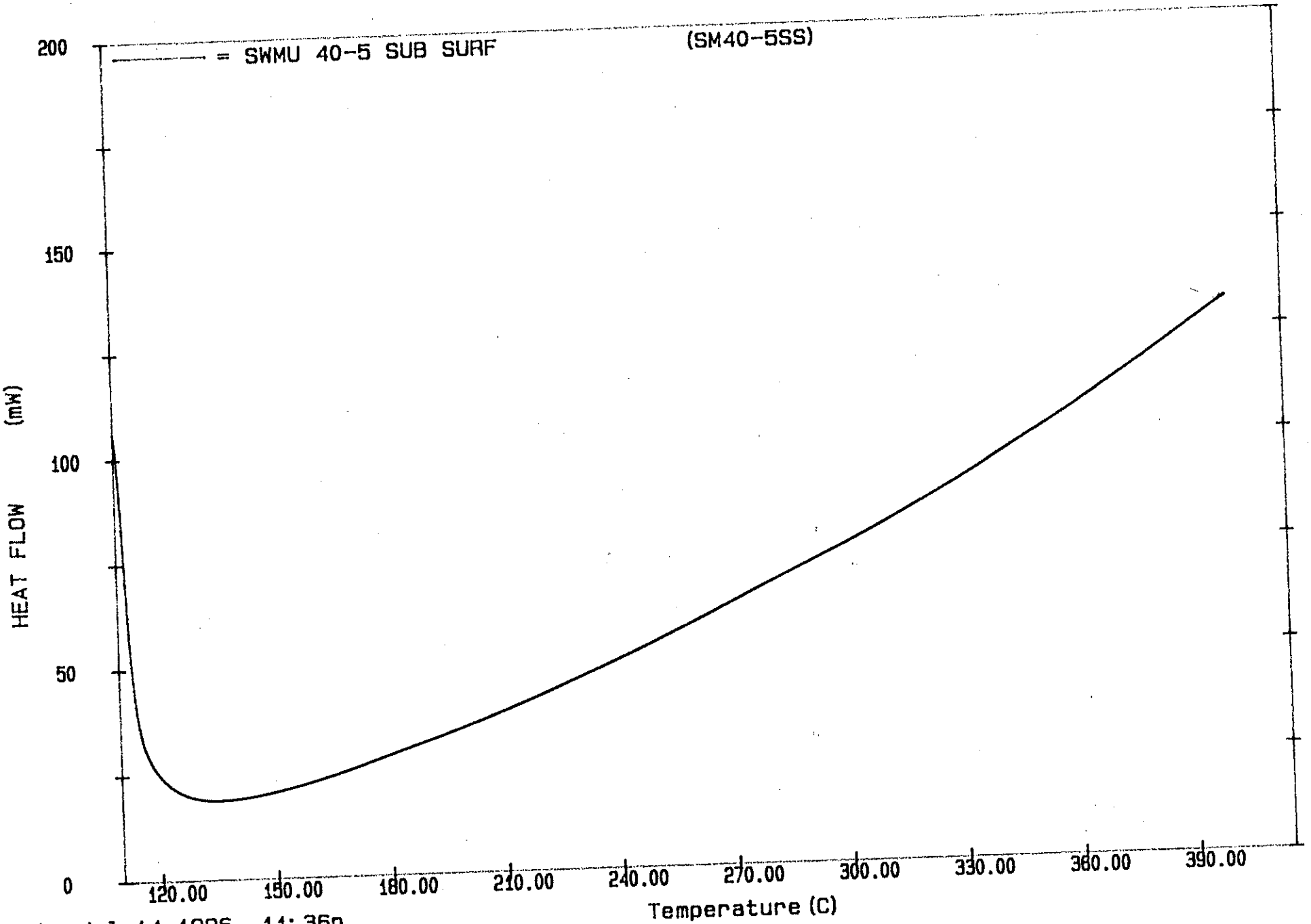
Date: Jul 14, 1996 9:24pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: SM40-4SS ST 8-20-96

NYNO NOBEL



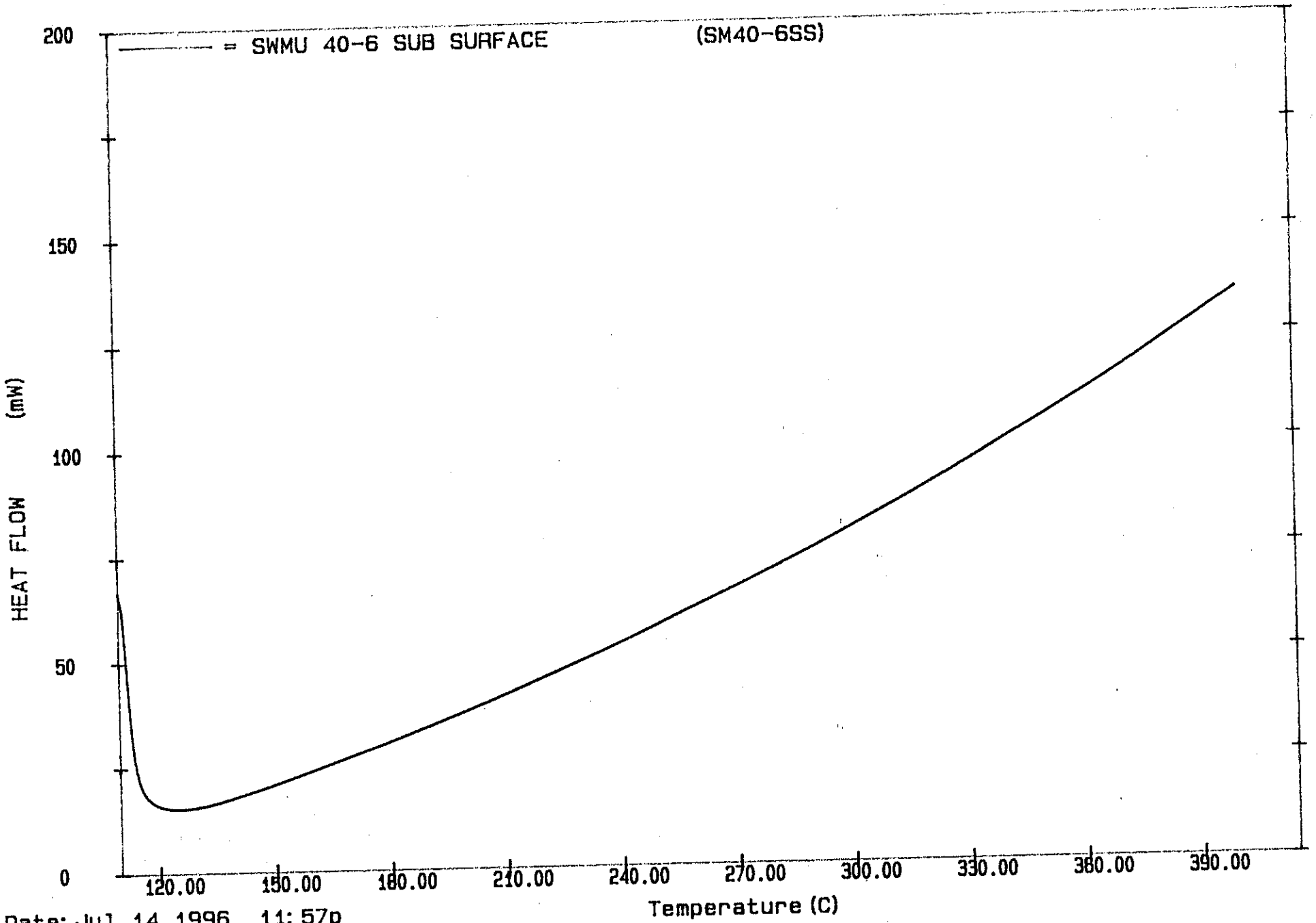
Date: Jul 14, 1996 9: 49pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
Fi SM40-5SS ST 8-20-96

YNO NOBEL



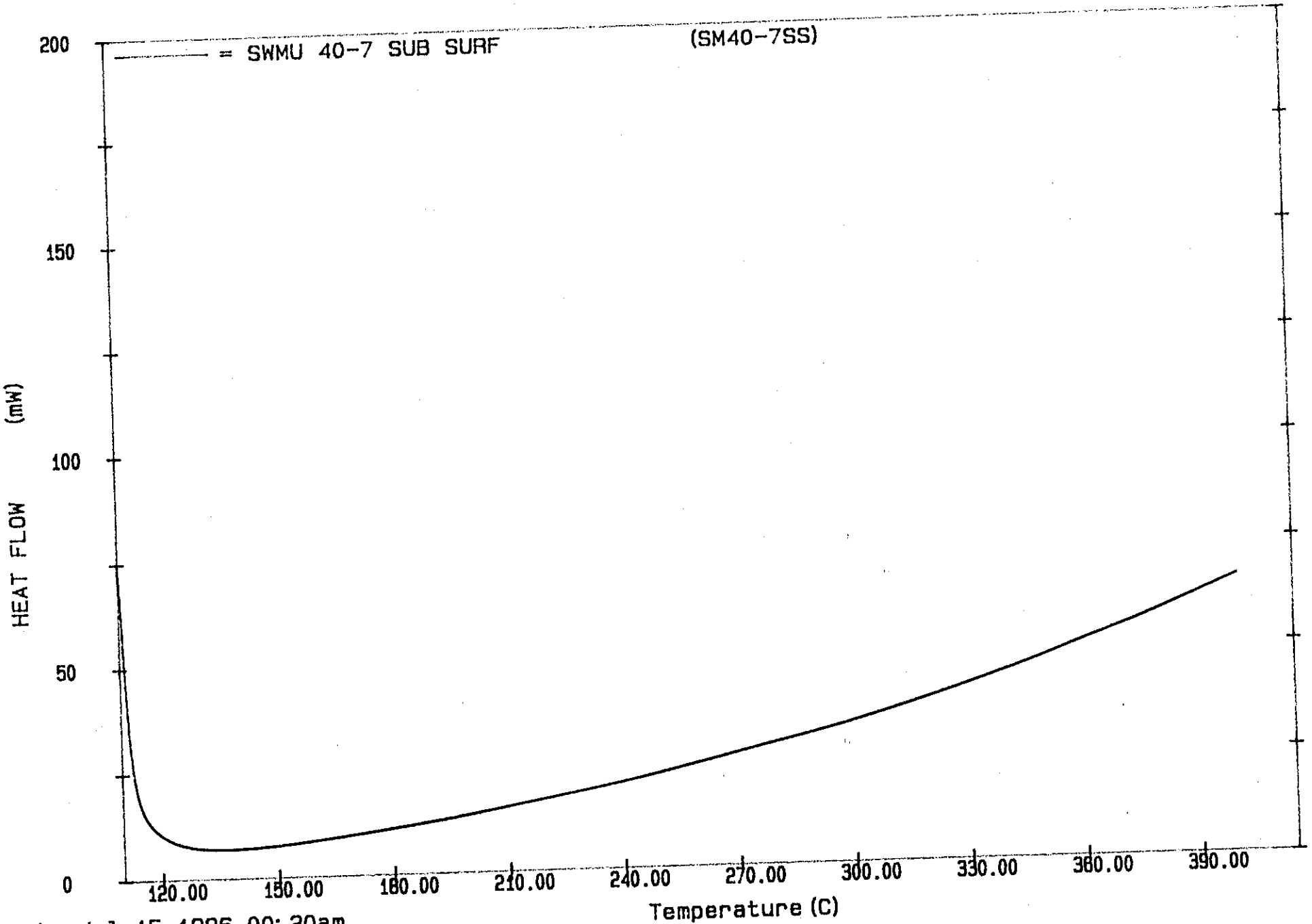
Date: Jul 14, 1996 11:36p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
FI SM40-5SS ST 8-20-96

NYNO NOBEL



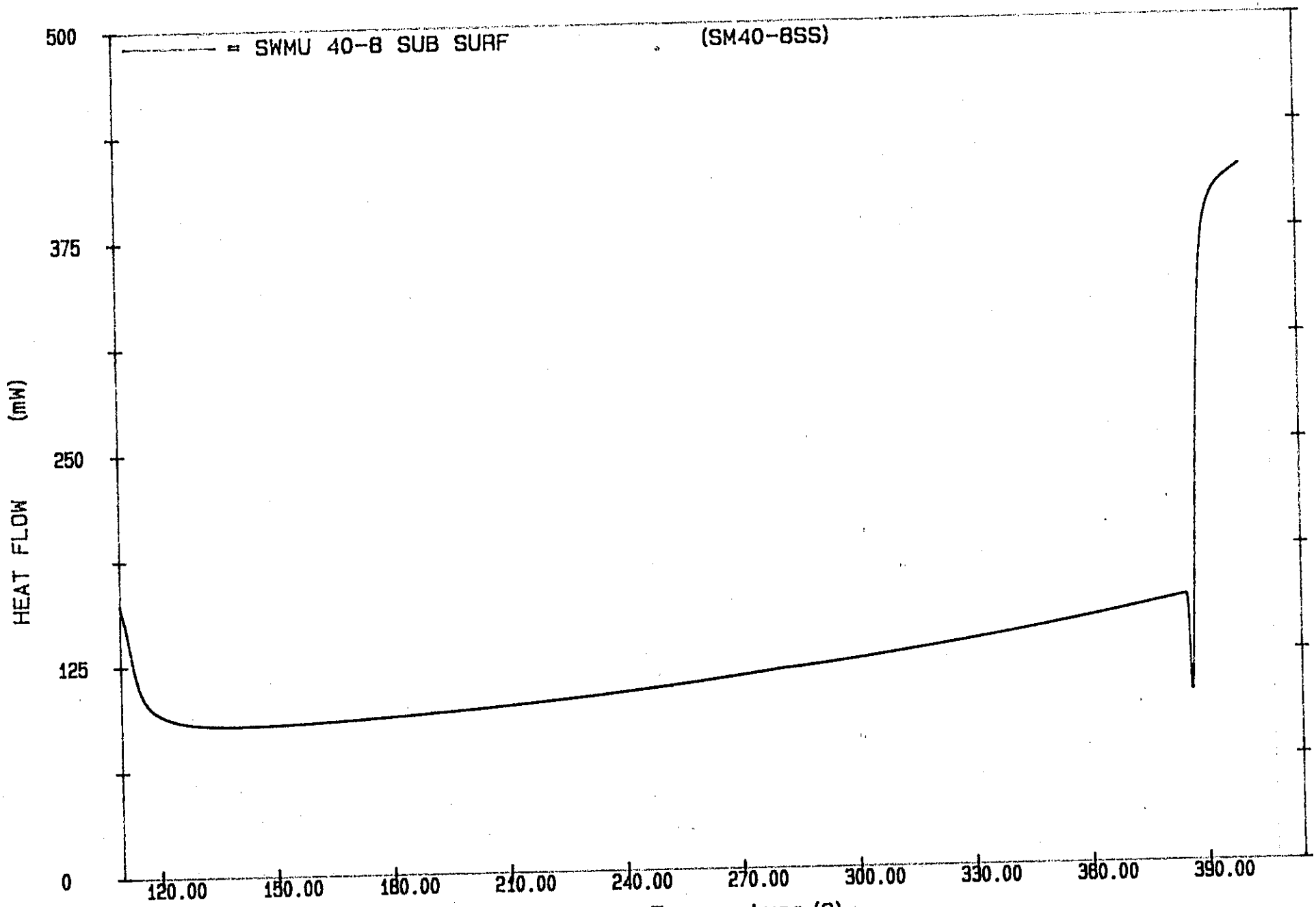
Date: Jul 14, 1996 11:57p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
F11 140-6SS ST 8-20-96

NO NOBEL



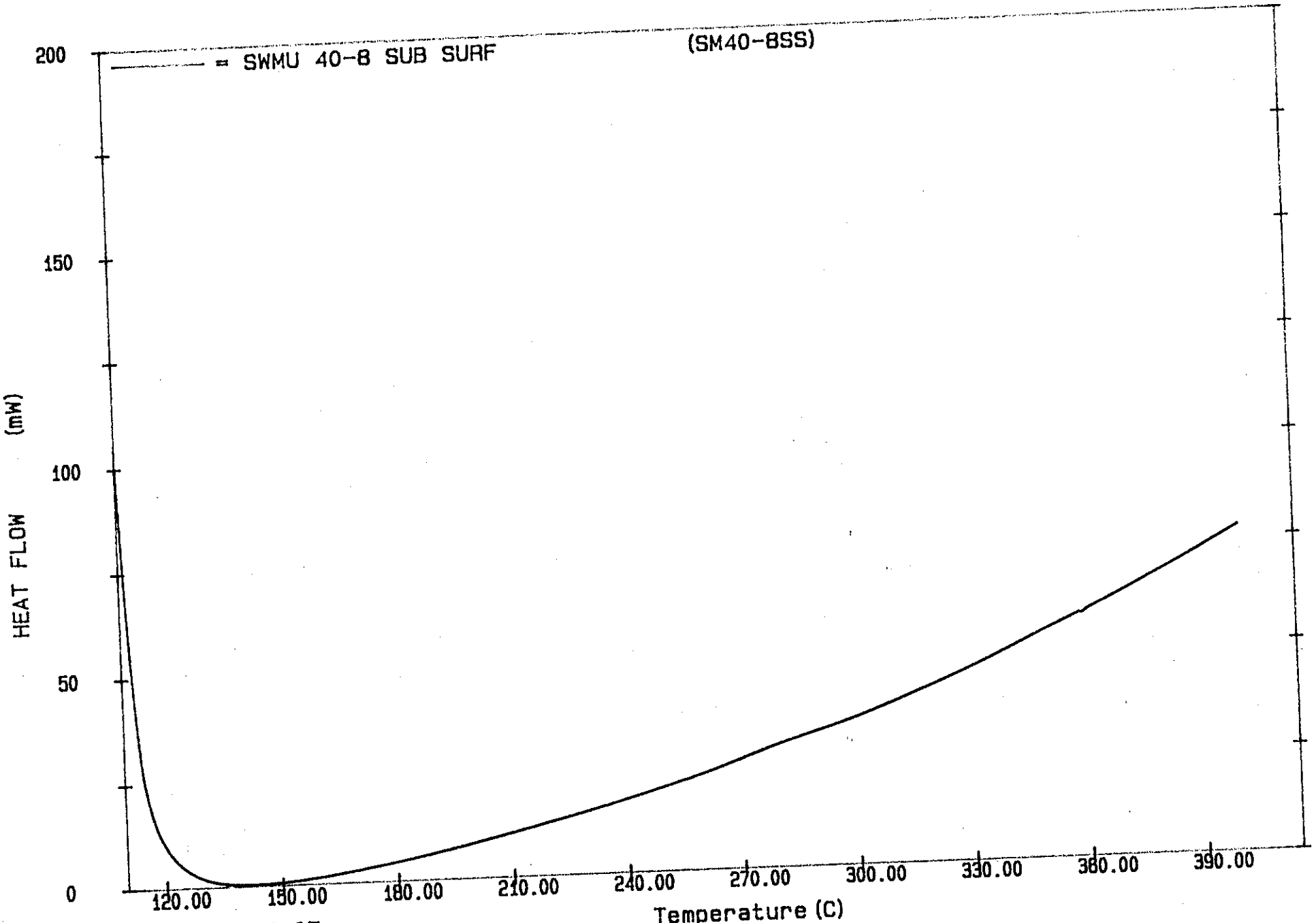
Date: Jul 15, 1996 00:20am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
Fil 40-7SS ST 8-20-96

NO NOBEL



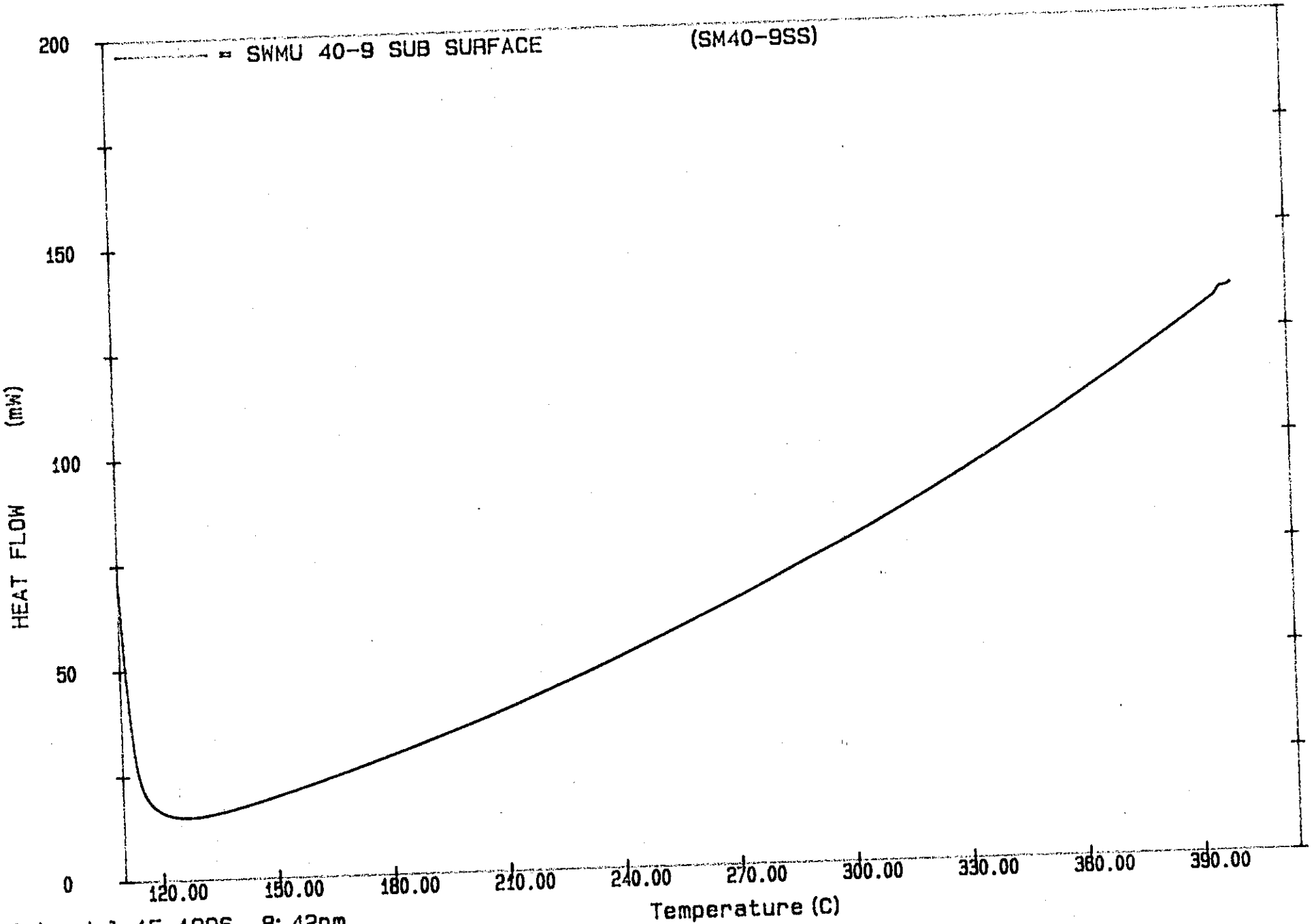
Date: Jul 15, 1996 8: 16pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File '0-8SS ST 8-21-96

10 NOBEL



Date: Jul 15, 1996 9:07pm
Scanning Rate: 20.0 C/min
Sample [illegible]: 0.000 mg Path: UXB\
Fil[illegible]140-8SS ST 8-21-96

NO NOBEL



Date: Jul 15, 1996 8:42pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
Fil 40-9SS ST 8-21-96

NO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8/14/96 SAMPLE NO# SS 1

TESTER Lynn / cook S. Hart

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	X	1.	✓	1.	1.	~~Complex~~
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8/14/96 SAMPLE NO# SS 2

TESTER Lion / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1. Neg
2.	X	2.	✓	2.	2.
3.	X	3.	✓	3.	3.
4.	X	4.	✓	4.	4.
5.	X	5.	✓	5.	5.
6.	X	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8/16/96 SAMPLE NO# SS 3

TESTER Logan / cook / Wright

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	X	1.	/	1.	1.	neg
2.	X	2.	/	2.	2.	
3.	X	3.	/	3.	3.	
4.	X	4.	/	4.	4.	
5.	X	5.	/	5.	5.	
6.	X	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8/16/94 SAMPLE NO# SS 4

TESTER Ligon / Cook / Shift

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X		✓	1.	1.	Neg
2.		X		✓	2.	2.	
3.		X		✓	3.	3.	
4.		X		✓	4.	4.	
5.		X		✓	5.	5.	
6.		X		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8/16/96 SAMPLE NO# SS 5

TESTER Legin / cook S Shrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1. Neg
2.	X	2.	✓	2.	2.
3.	X	3.	✓	3.	3.
4.	X	4.	✓	4.	4.
5.	X	5.	✓	5.	5.
6.	X	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8/16/96 SAMPLE NO# SS 6

TESTER Logan / Cook / Wright

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	X	1.	✓	1.	1.	Neg
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8/16/91 SAMPLE NO# SS 7

TESTER Ligon / cook / Hunt

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes	No	Yes	No			
1.		X		✓	1.	1.	Neg
2.		X		✓	2.	2.	
3.		X		✓	3.	3.	
4.		X		✓	4.	4.	
5.		X		✓	5.	5.	
6.		X		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8/16/94 SAMPLE NO# SS 8

TESTER Legon / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	Neg
2.	X	2.	✓	2.	
3.	X	3.	✓	3.	
4.	X	4.	✓	4.	
5.	X	5.	✓	5.	
6.	X	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 40 DATE 8/16/96 SAMPLE NO# SS 9

TESTER Logan / Cook / Schmidt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1.	Neg
2.	X	2.	/	2.	2.	
3.	X	3.	/	3.	3.	
4.	X	4.	/	4.	4.	
5.	X	5.	/	5.	5.	
6.	X	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

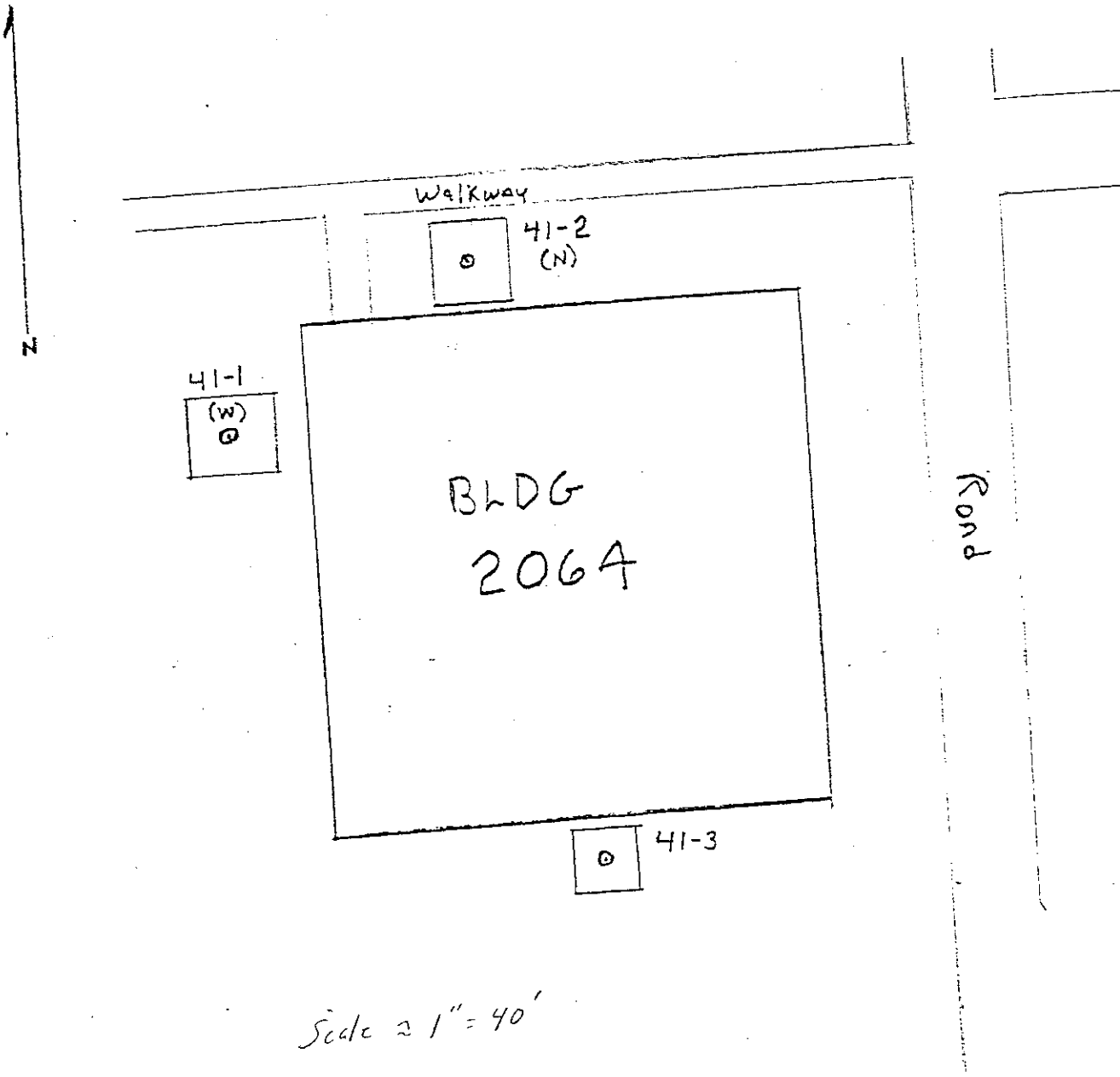
S--SURFACE
SS--SUBSURFACE

APPENDIX N

SWMU 41 - DETONATOR PRODUCTION BUILDING CONDENSATE COLLECTION SUMPS

SWMU 41

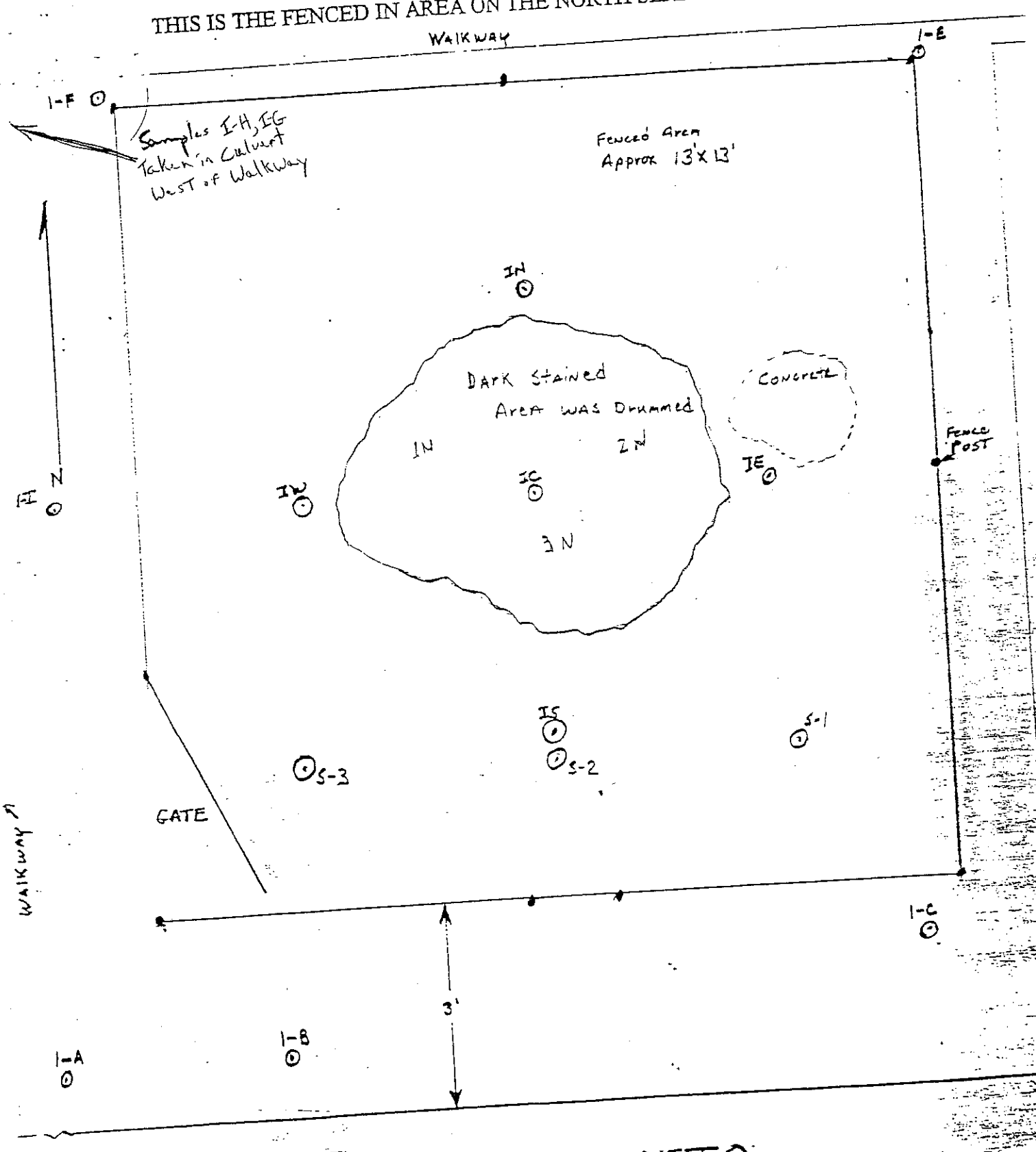
DETONATOR PRODUCTION BUILDING CONDENSATE COLLECTION SUMPS.



SWMU 41N

DETONATOR PRODUCTION BUILDING CONDENSATE COLLECTION SUMPS.

THIS IS THE FENCED IN AREA ON THE NORTH SIDE OF BLDG 2064.



BLDG 2064 DETO



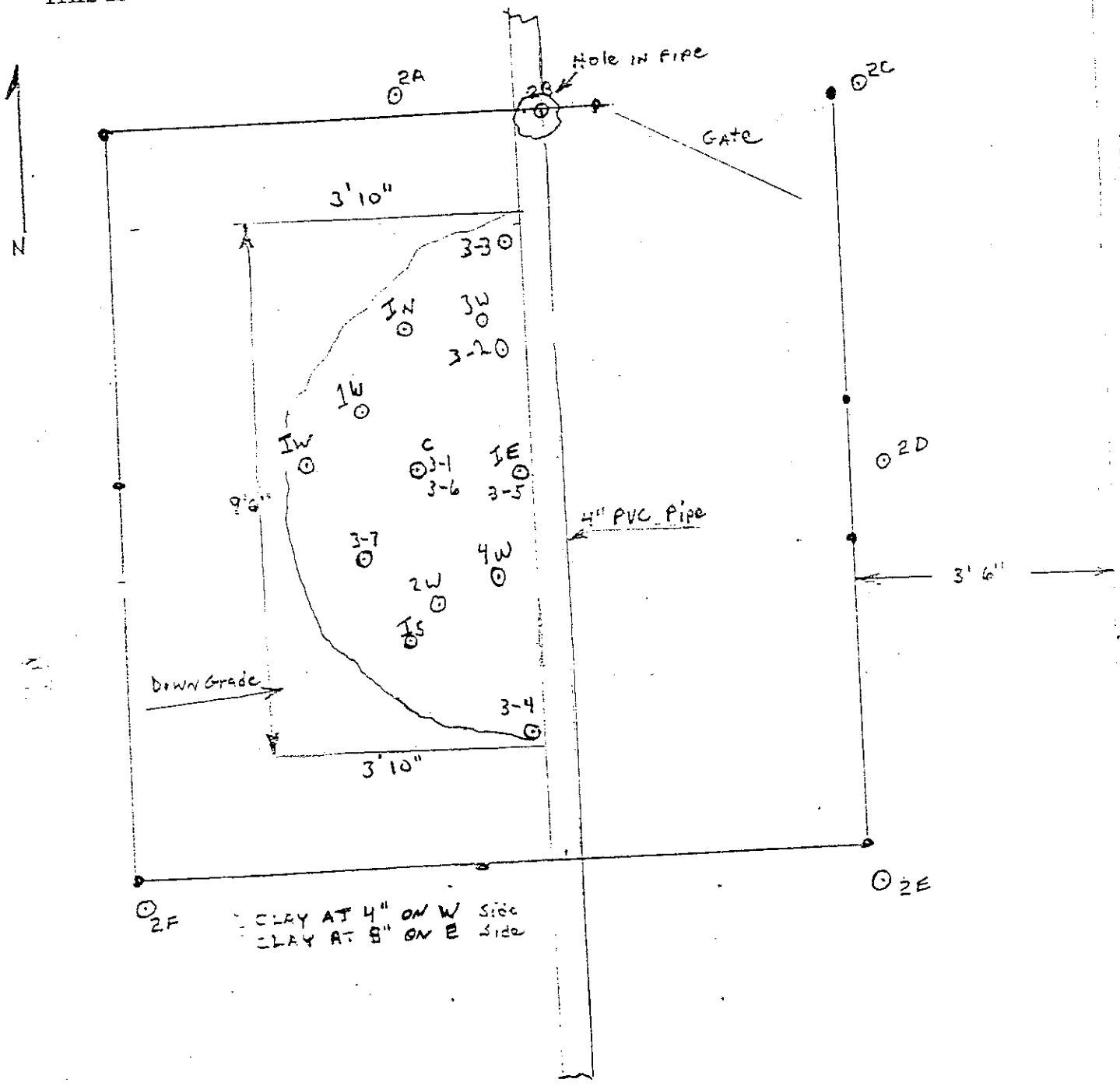


41 N

SWMU 41W

DETONATOR PRODUCTION BUILDING CONDENSATE COLLECTION SUMPS.

THIS IS THE FENCED IN AREA ON THE WEST SIDE OF BLDG 2064.





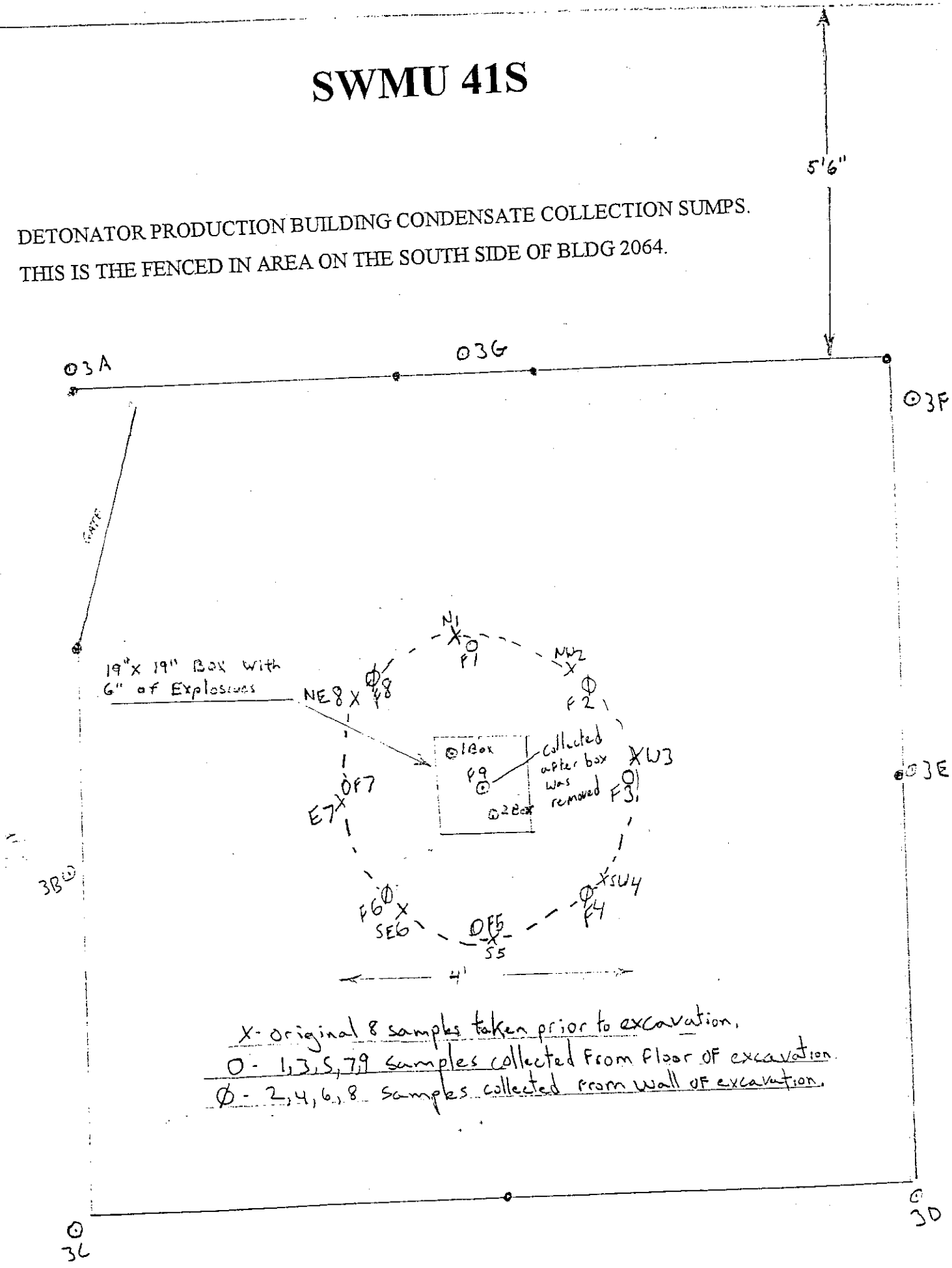


41 W

SWMU 41S

DETONATOR PRODUCTION BUILDING CONDENSATE COLLECTION SUMPS.

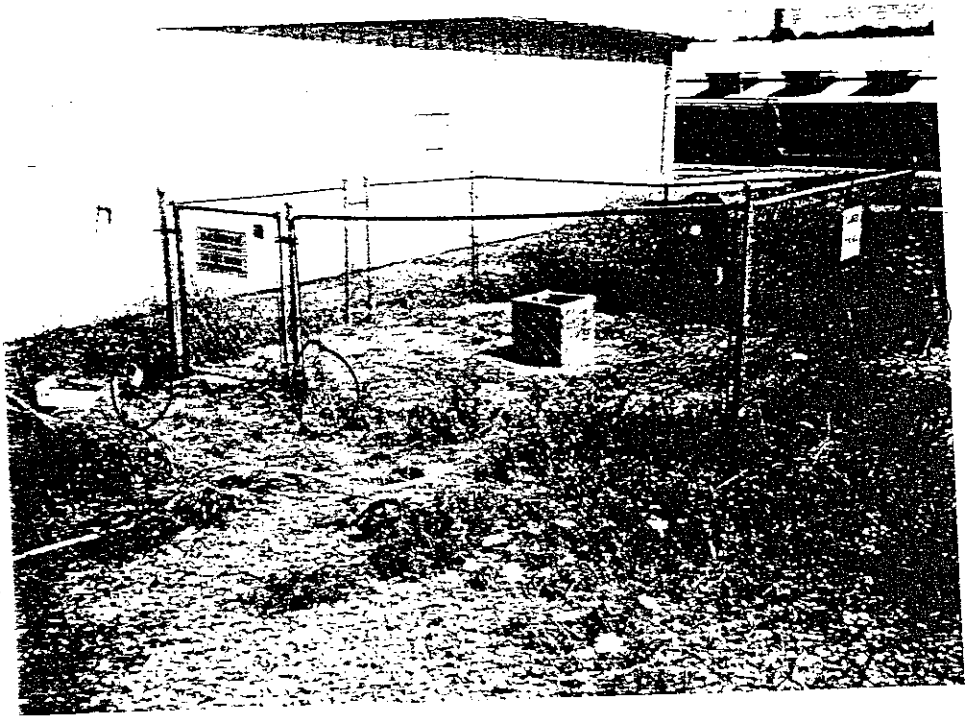
THIS IS THE FENCED IN AREA ON THE SOUTH SIDE OF BLDG 2064.

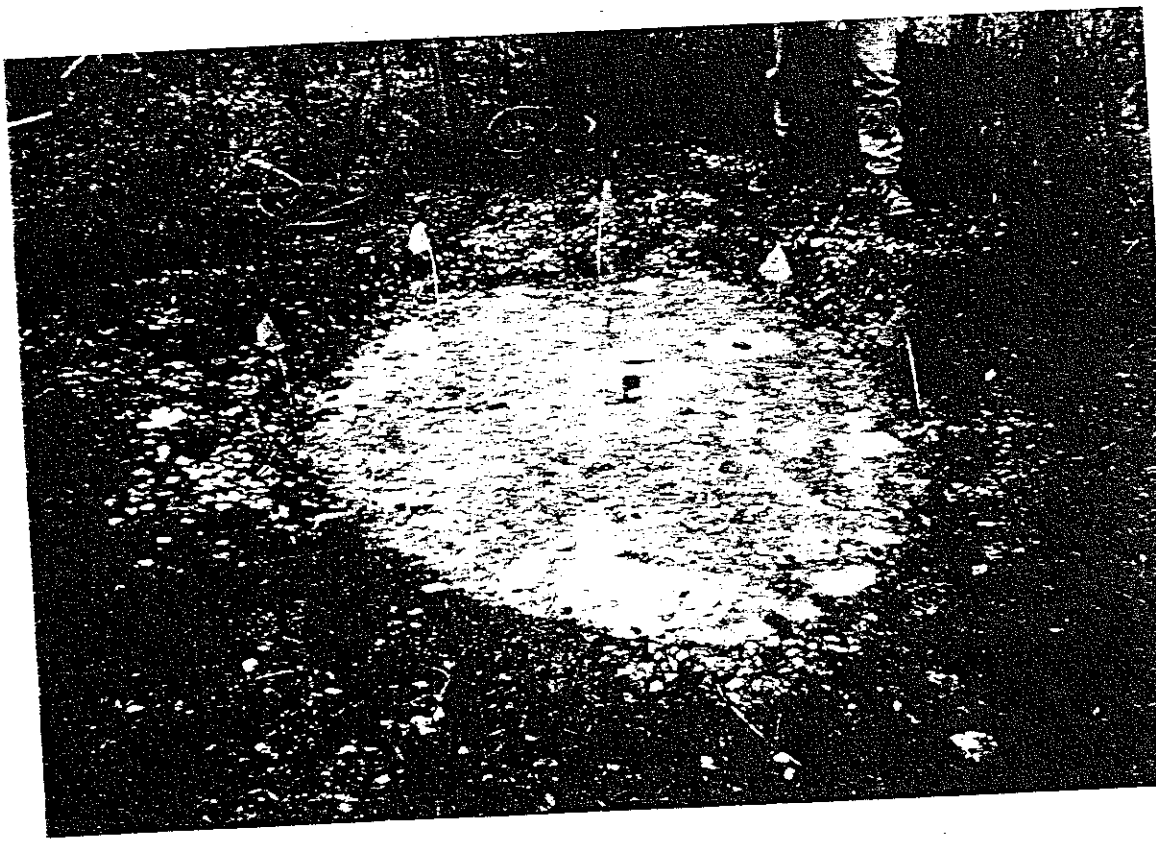


X- original 8 samples taken prior to excavation.

O - 1, 3, 5, 7, 9 samples collected from floor of excavation.

Ø - 2, 4, 6, 8 samples collected from wall of excavation.





SUMMARY OF ACTIVITIES FOR SWMU 41

The implementation of the ICM work plan for SWMU 41 consisted of sampling at three former condensate collection sumps at facility Building 2064. SWMUs 41N, 41S, and 41W are located on the north, south and west sides of Building 2064, respectively. Each location was surrounded by a fence with an unlocked gate. The former locations of the sumps was approximately at the center of each fenced in area. An initial round of surface samples were collected at all three locations. Samples collected from locations 41N and 41S had positive impact tests and a composite sample of all three locations tested positive for Tetryl and Lead styphnate on the calorimeter.

The area surrounding sample 41N was first cleared of brush which revealed the presence of detonators scattered on the ground. These were collected and placed in a one gallon pail. Since the area within the fence and beyond was predominately covered with coarse gravel, only subsurface samples were taken. Samples 1N-3N were taken at the center of the fenced in area (see map for location 41N). These samples tested positive for explosives using all three test methods. Further inspection revealed a visible dark gray residue mixed within the gravel and soil. UXB technicians set up an apparatus to wash the gravel and separate the explosive residue. The residue was mixed with water and placed in 5 gallon containers while the rinse water was placed in 55 gallon poly drums. The cleaned gravel was then placed on a poly tarp adjacent to the SWMU pending replacement after excavation and/or testing of the underlying soil. The underlying contaminated soil was then removed to a depth of approximately 3 inches and placed in 55 gallon poly drums. Confirmatory subsurface samples IC, IE, IN, IS, and IW were taken after the soil had been excavated. These samples tested negative for explosives using all three test methods. Subsurface samples S1-S3 were collected downgradient from the stained soils and also tested negative for explosives using all three test methods.

Subsurface samples 1A-1I were taken outside the fenced in area. All locations are visible on the map except for 1G and 1H which were taken in culvert west of the walkway. Each of these samples tested positive for friction on one or more of the repeat tests. However, since the calorimeter and impact test results on these

samples were negative, and friction tests were not positive for all six runs, the presence of explosives was not confirmed in these areas. As a precautionary measure, however, a minimal excavation was performed at each location.

At 41W initial samples 1W-4W tested positive for explosives on all three test methods (see map for 41W). This area, which is approximately 9'6" by 3'10" consisted of course gravel bounded to the east by a four-inch diameter PVC pipe. The gravel was washed, the explosive residue removed, and the cleaned gravel was placed on a poly tarp similar to location 41N. Approximately three inches of soil was then excavated and placed into 55 gallon poly drums. Subsurface samples IE-IN and 3-1 through 3-7 were taken within the fenced area after the gravel was removed and the soil excavated. These samples tested negative for explosives using all three test methods. Subsurface samples 2A-2F were taken along the perimeter of the fence and tested positive for friction on one or more of the repeat tests. However, since the calorimeter and impact test results on these samples were negative, and friction tests were not positive for all six runs, the presence of explosives was not confirmed in these areas. As a precautionary measure, however, a minimal excavation was performed at each location.

At location 41S, a small wooden box was observed in the center of the fenced in area which contained a gray, pasty, powder. Samples of this powder tested positive for explosives on all three test methods. The box appeared to have as much as 6" of explosive powders which had passed through the box joints and ran onto the surrounding ground. UXB technicians carefully pulled the box apart and noticed there were small detonators and metallic flakes mixed within the powder. All of the material within the box was placed in 5 gallon pails mixed with water and inert material. The box itself was placed in a drum mixed with dirt and gravel. Sampling was conducted along the perimeter of the fence (samples 3A-3G) and in a four foot radius around the box (indicated by an "X" on the map), in order to establish a boundary of contamination (see map for 31S). The soil contained within the 4 foot perimeter surrounding the box was then excavated to approximately 3 inches in depth and 9 more subsurface samples (F1-F9) were taken within the excavation. The odd numbered samples 1, 3, 5, 7, and 9 were collected from the floor of the excavation and are indicated by a circle on the map. The even numbered samples were taken from the wall of the excavation and are indicated by a circle with a line

through it. Analytical results were negative for explosives using all three test methods which confirmed that the explosive residue had been removed. All drums and pails from 41N, 41W, and 41S were turned over to Dyno-Nobel for storage pending disposal.

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
								Y *
8-15-96	bm4 418	N	N	N	Y	N	N	

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

LS= LEAD STYPHYNATE

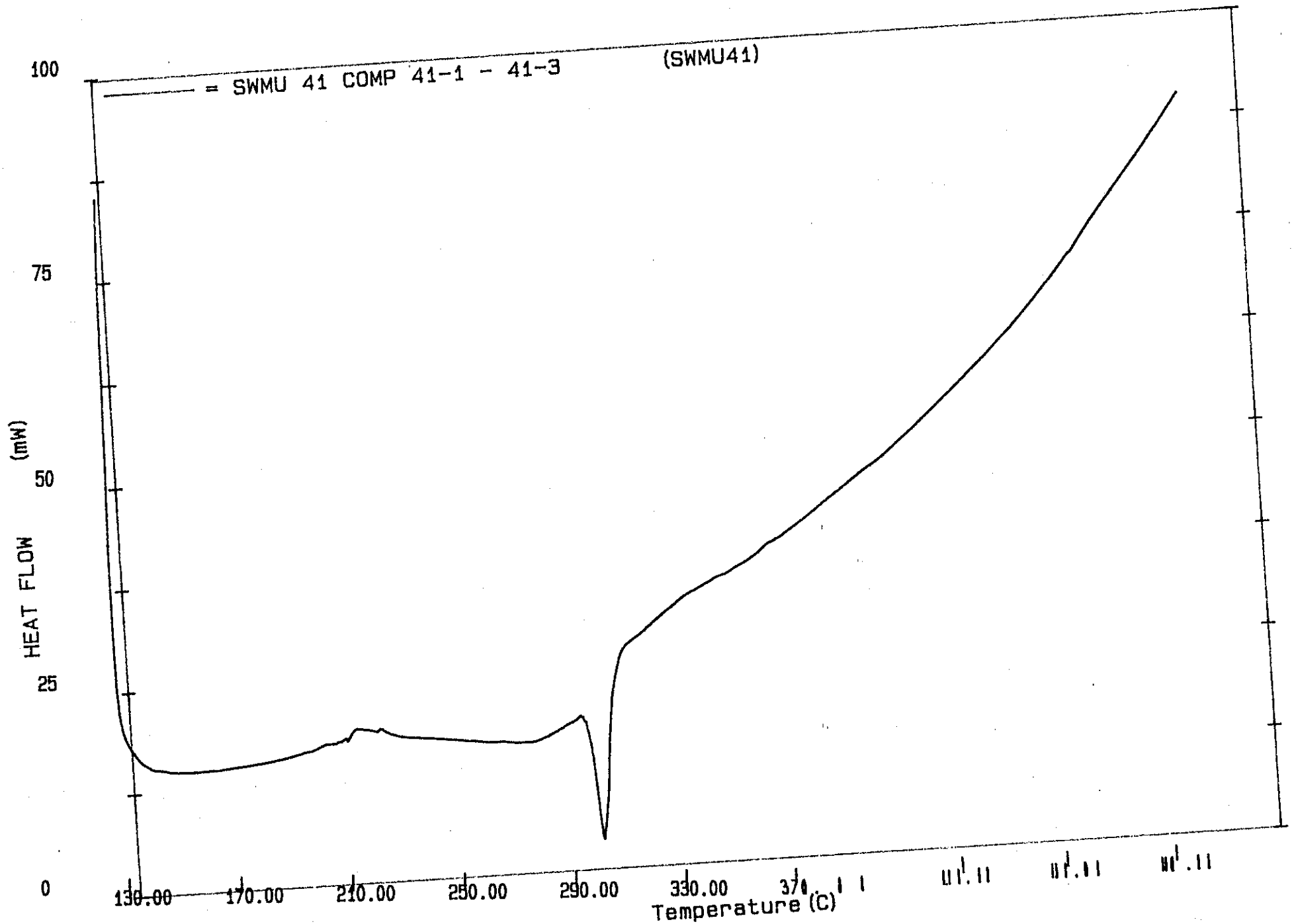
TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

N= N0

* Reaction peak at about 300°C



Date: Jul 09, 1996 10: 48p
Scanning Rate: 20.0 C/min
Sam[illegible]t: 2.500 mg Path: UXB\

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 4 (W) DATE 8-12 SAMPLE NO# 51

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1.	Comp Positive
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.		6.	6.	

TESTER Lyon / Lyon / Schmit

Comments: 4000gr Friction
1kg at 100 cm Impact

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 4 / (N) DATE 8/12/96 SAMPLE NO# 52

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Positive
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Ligon / Ligon / S. Hunt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 4(S) DATE 8/12/96 SAMPLE NO# S3

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	No		
1.	✓		1.	1.
2.	✓		2.	2.
3.	✓		3.	3.
4.	✓		4.	4.
5.	✓		5.	5.
6.	✓		6.	6.

CALORIMETRIC TEST:
Results

Comp positive

TESTER Ligon / Ligon / S. Thrd

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

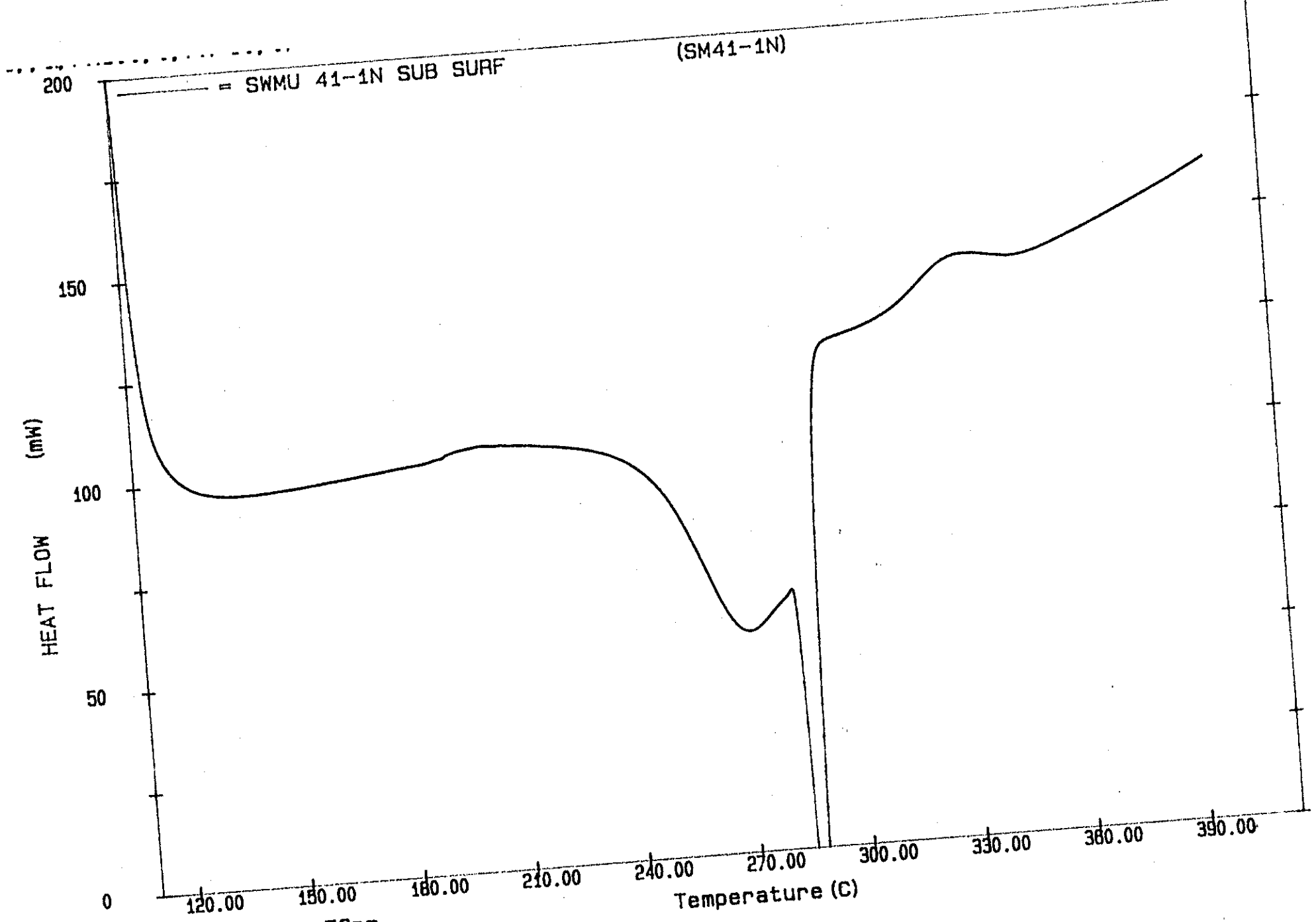
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-21-96	Swing 4N				Y	N	N	Y
	41-1N	N	N	N	Y	N	N	N
	41-2N	N	N	N	Y	N	N	Y
	41-3N	N	N	N				

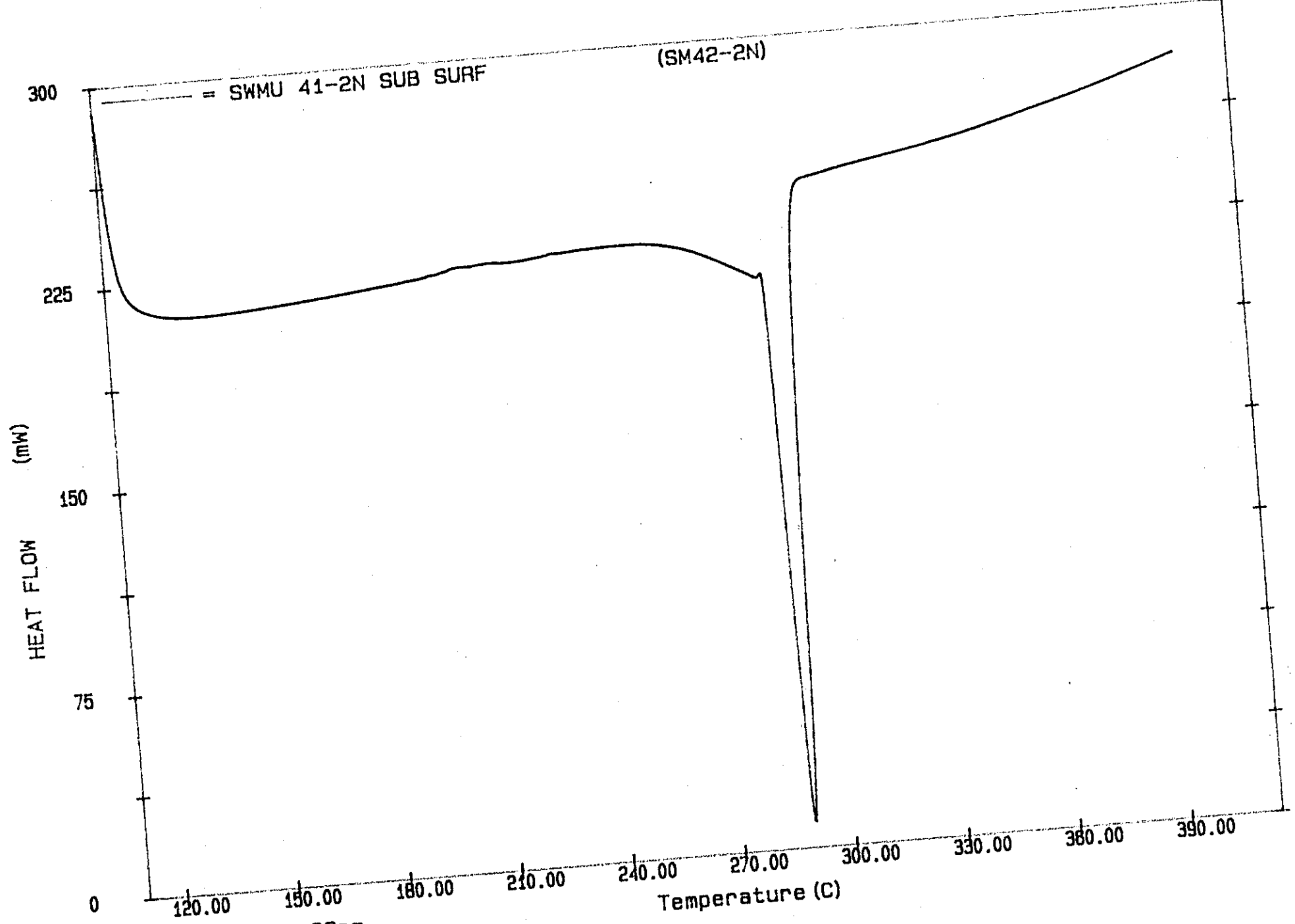
LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



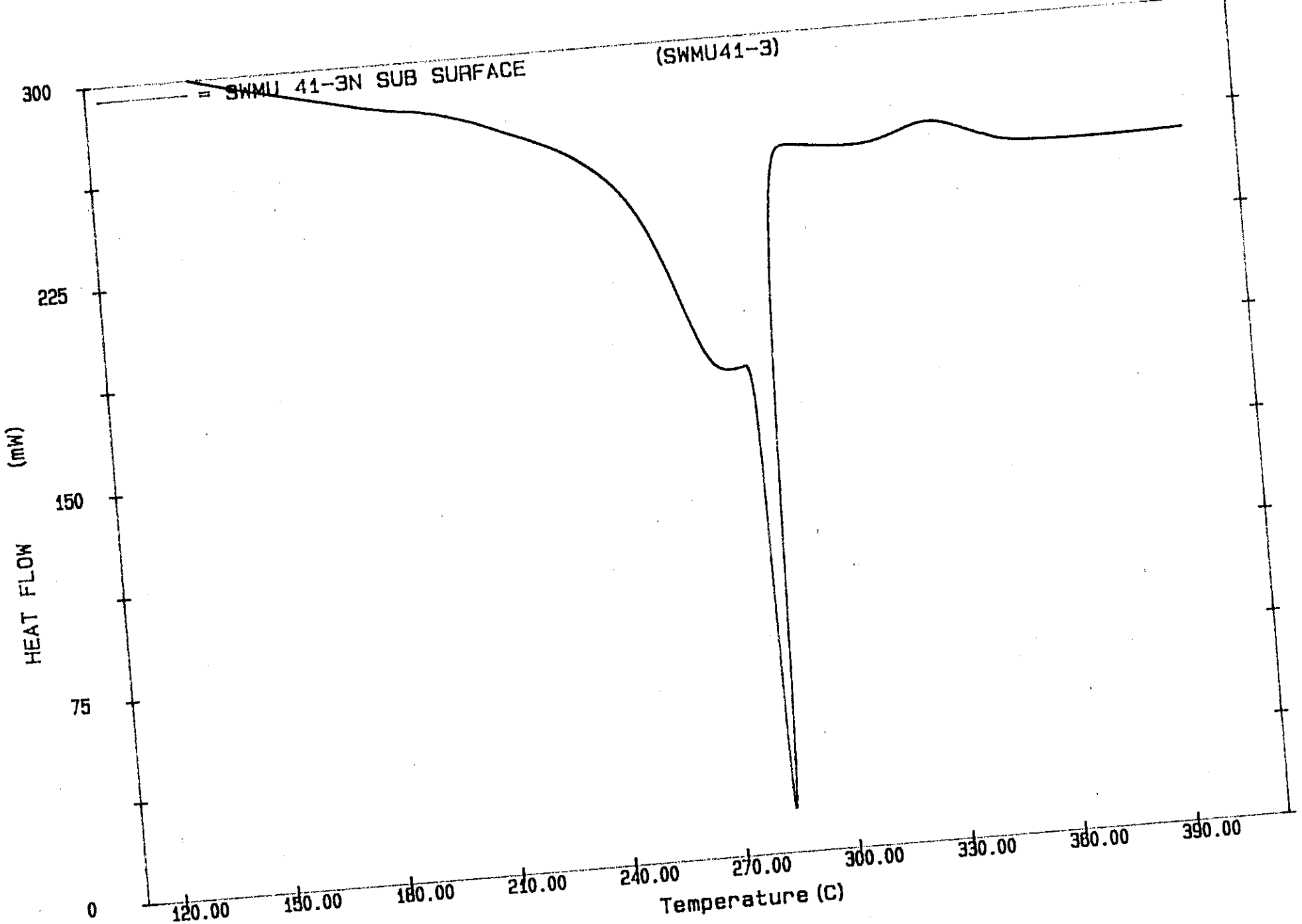
Date: Jul 15, 1996 4:58pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: SM41-1N ST 8-21-96

YNO NOBEL



Date: Jul 15, 1996 5:33pm
Scanning Rate: 20.0 C/min
Sam Wt: 0.000 mg Path: UXB\
F1 1: SM42-2N ST 8-21-96

DYNO NOBEL



Date: Jul 15, 1996 5:58pm
Scanning Rate: 20.0 C/min
Samp Wt: 0.000 mg Path: UXB\
Fil : SWMU41-3 ST 8-21-96

YNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8/21/94 SAMPLE NO# SS 1

TESTER Thrift/Ligon Cook '8 Hunt

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	Reactive No	
1.	✓		1.
2.	✓		2.
3.		✓	3.
4.		✓	4.
5.		✓	5.
6.		✓	6.

CALORIMETRIC TEST:

Results Positive

Comments:

4000 GRAM TEST WEIGHT ON THE FRICTION TEST

1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE

SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8/21/94 SAMPLE NO# SS 2

TESTER Thrift/Ingram Cook/Schmidt

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.	✓	
3.		✓
4.	✓	
5.	✓	
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results
positive

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41W DATE 8/21/96 SAMPLE NO# SS 3

TESTER Thrift/Ingon Cook / Dhyd

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.	✓	
5.	✓	
6.		✓

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.	✓	
3.	✓	
4.		✓
5.	✓	
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results
positive

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

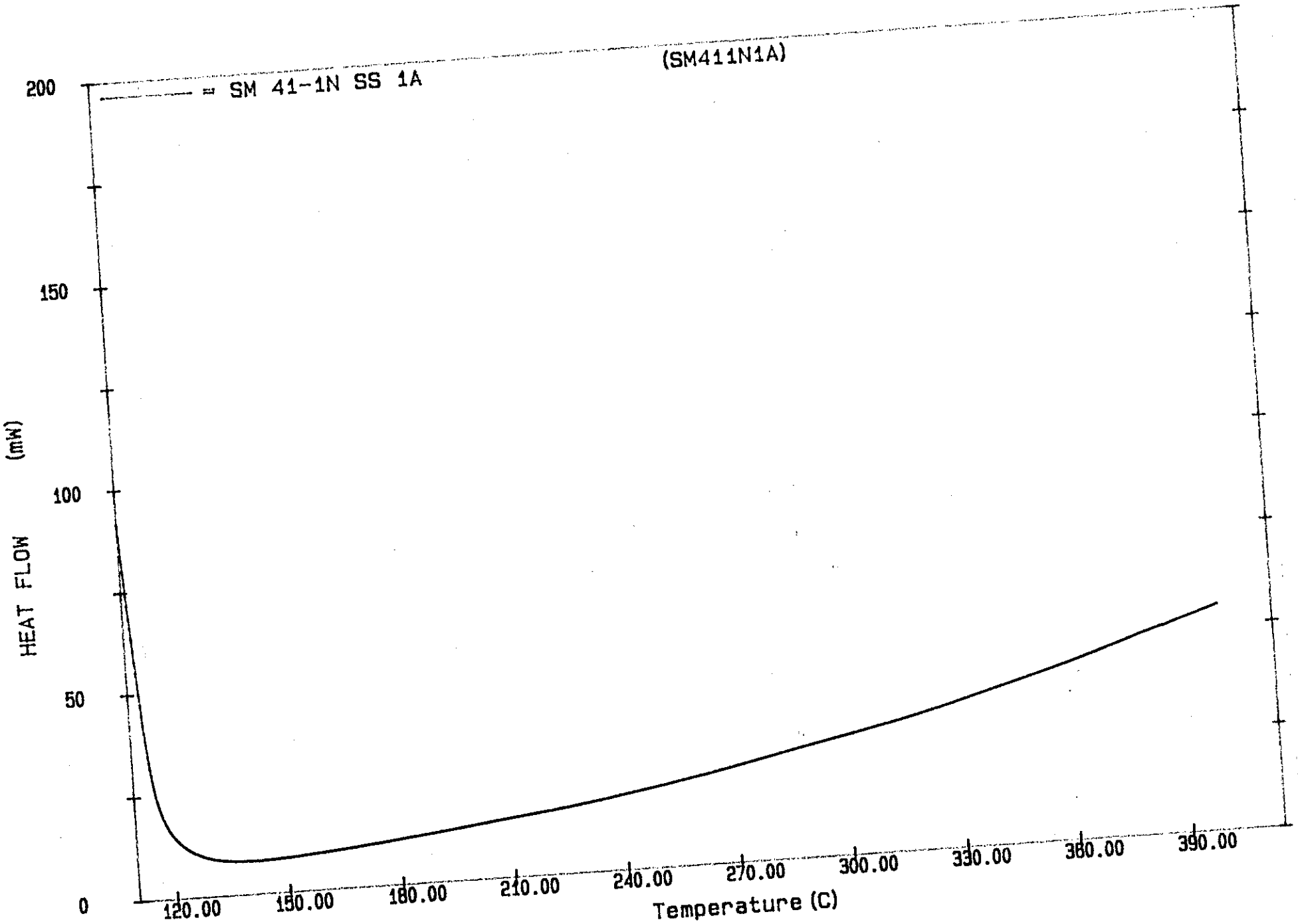
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-22-96	SMU 41-IM	N	N	N	N	N	N	N
	SS 1A	N	N	N	N	N	N	N
	SS 1B	N	N	N	N	N	N	N
	SS 1C	N	N	N	N	N	N	N
	1D	N	N	N	N	N	N	N
	1E	N	N	N	N	N	N	N
	1F	N	N	N	N	N	N	N
	1G	N	N	N	N	N	N	N
	1H	N	N	N	N	N	N	N
	1I	N	N	N				

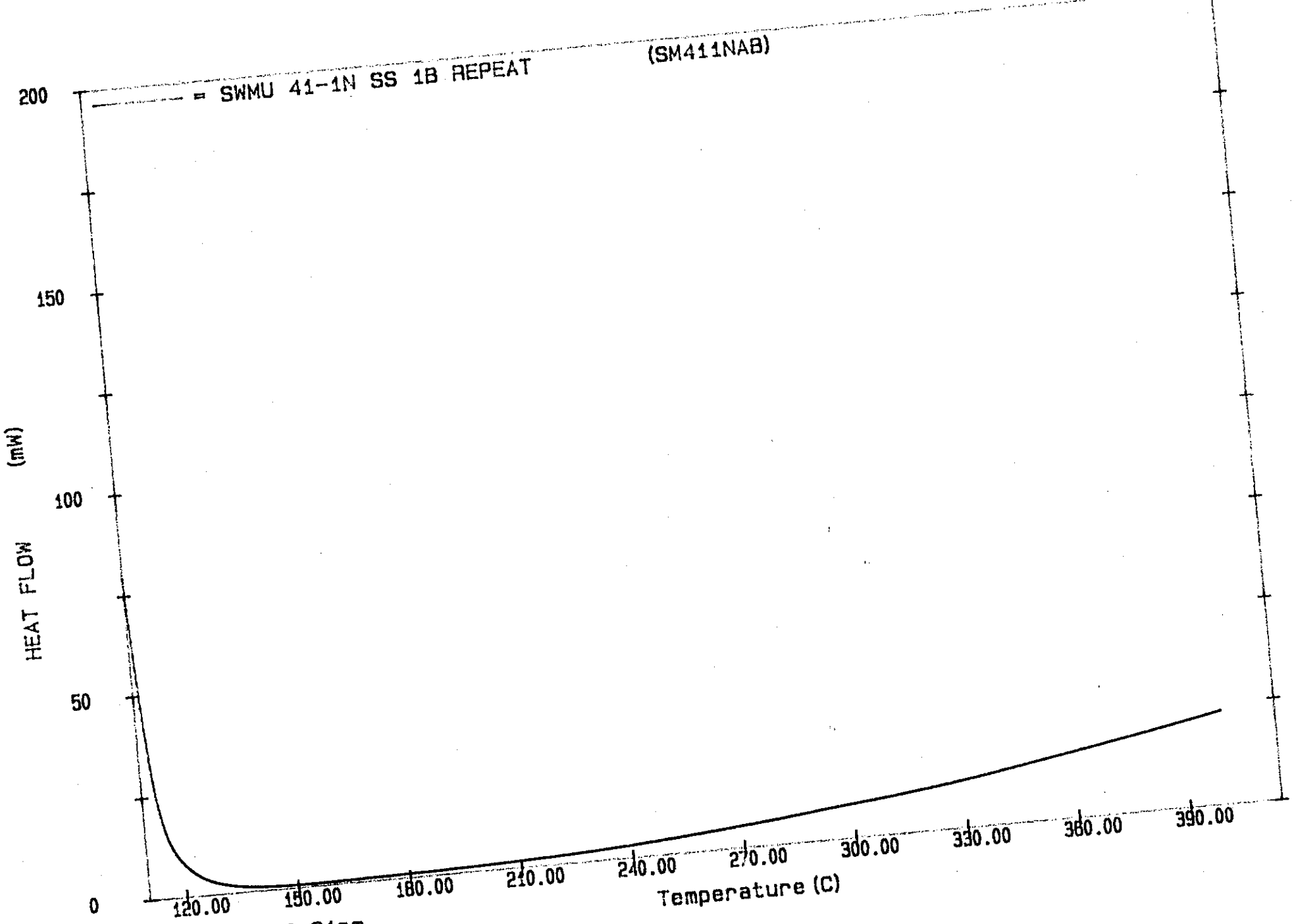
LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



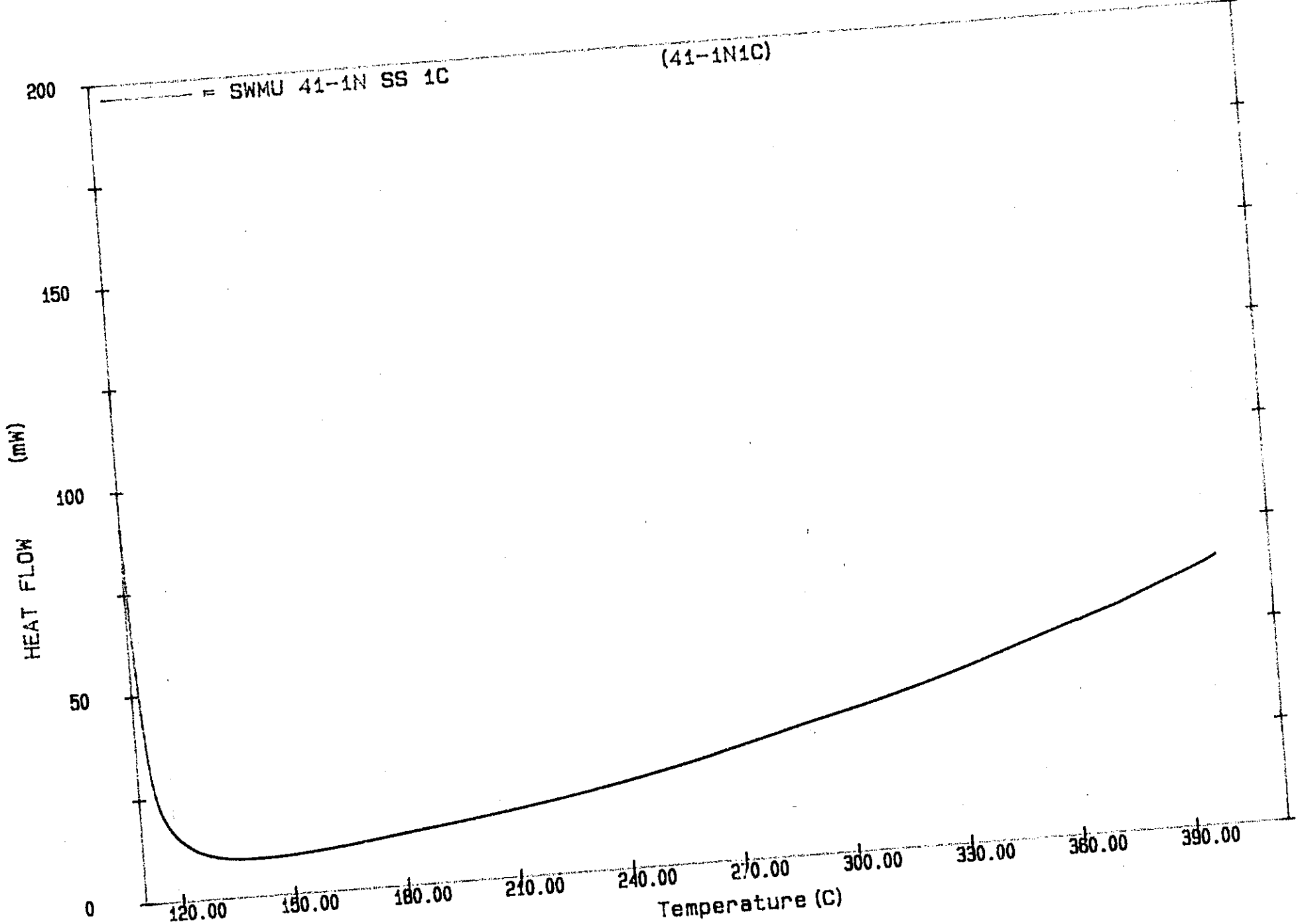
Date: Jul 16, 1996 5: 12pm
Scanning Rate: 20.0 C/min
Samp[illegible] Wt: 0.000 mg Path: UXB\
Fi[illegible]: SM411N1A ST 8-21-96

NYNO NOBEL



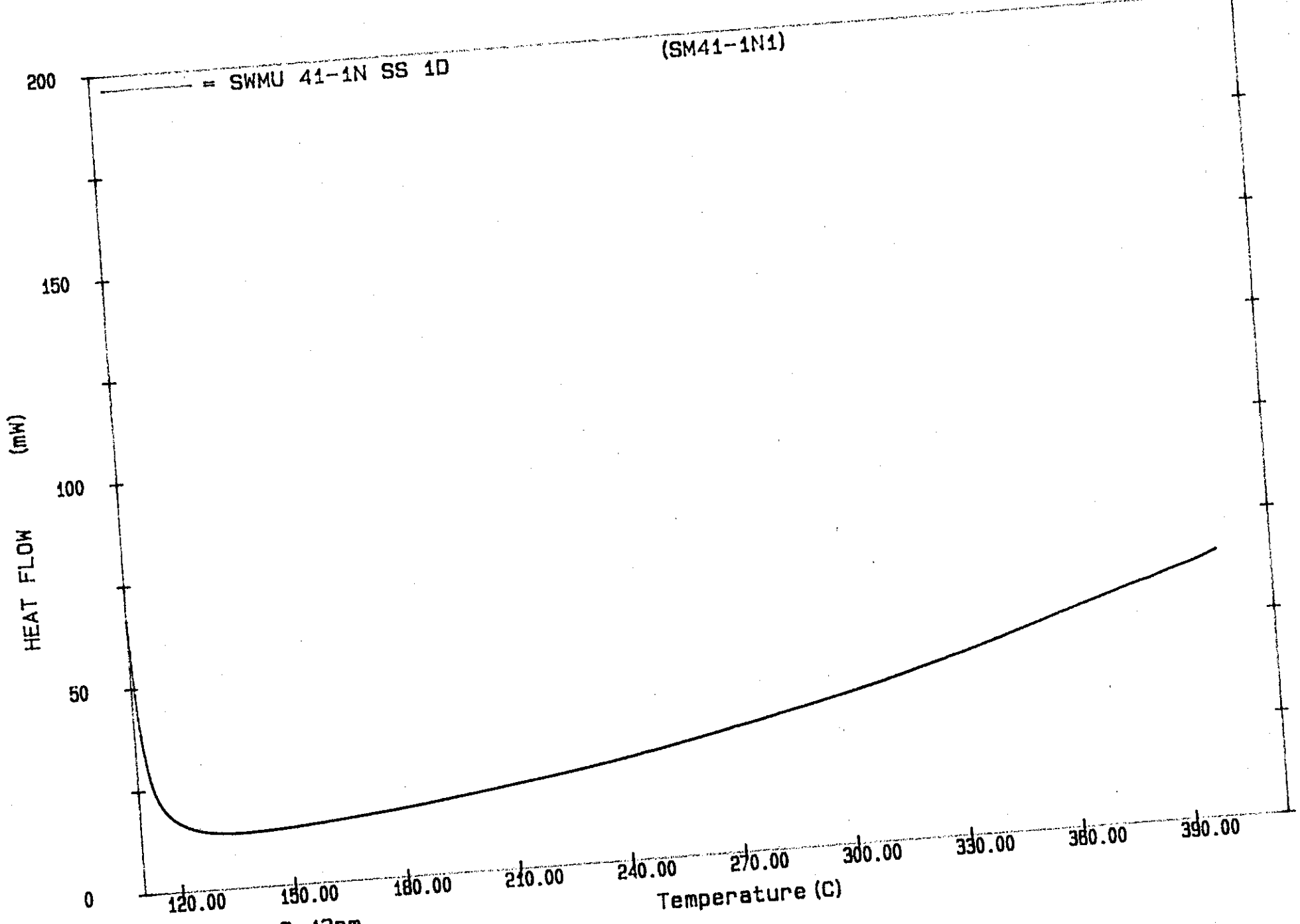
Date: Jul 16, 1996 6:21pm
Scanning Rate: 20.0 C/min
Sampl[illegible] t: 0.000 mg Path: UXB\
File: SM411NAB ST 8-22-96

'NO NOBEL



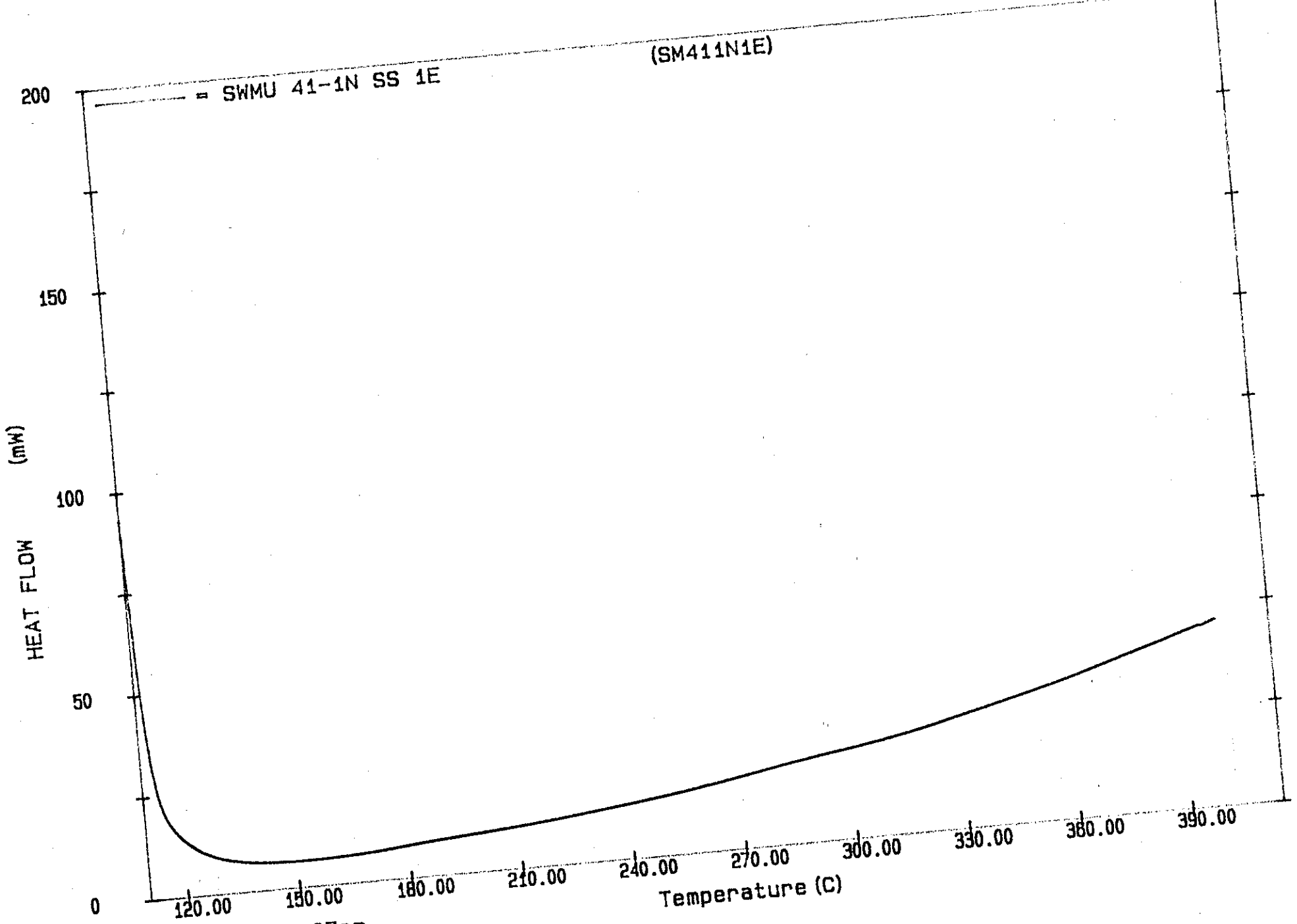
Date: Jul 16, 1996 5:57pm
Scanning Rate: 20.0 C/min
Sam Wt: 0.000 mg Path: UXB\
Fi 1: 41-1N1C ST 8-22-96

DYNO NOBEL



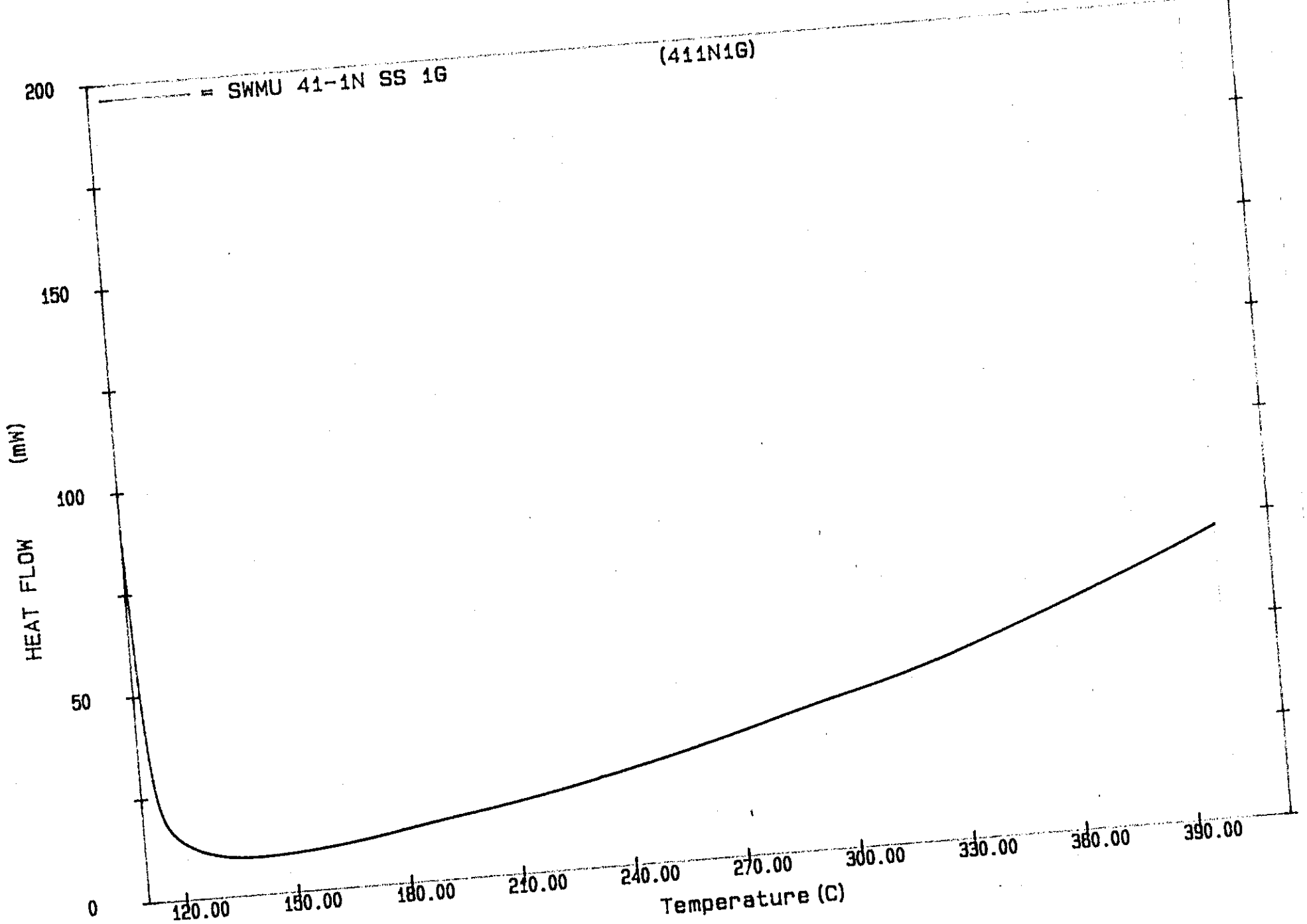
Date: Jul 16, 1996 6: 43pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File 41-1N1 ST 8-22-96

NO NOBEL



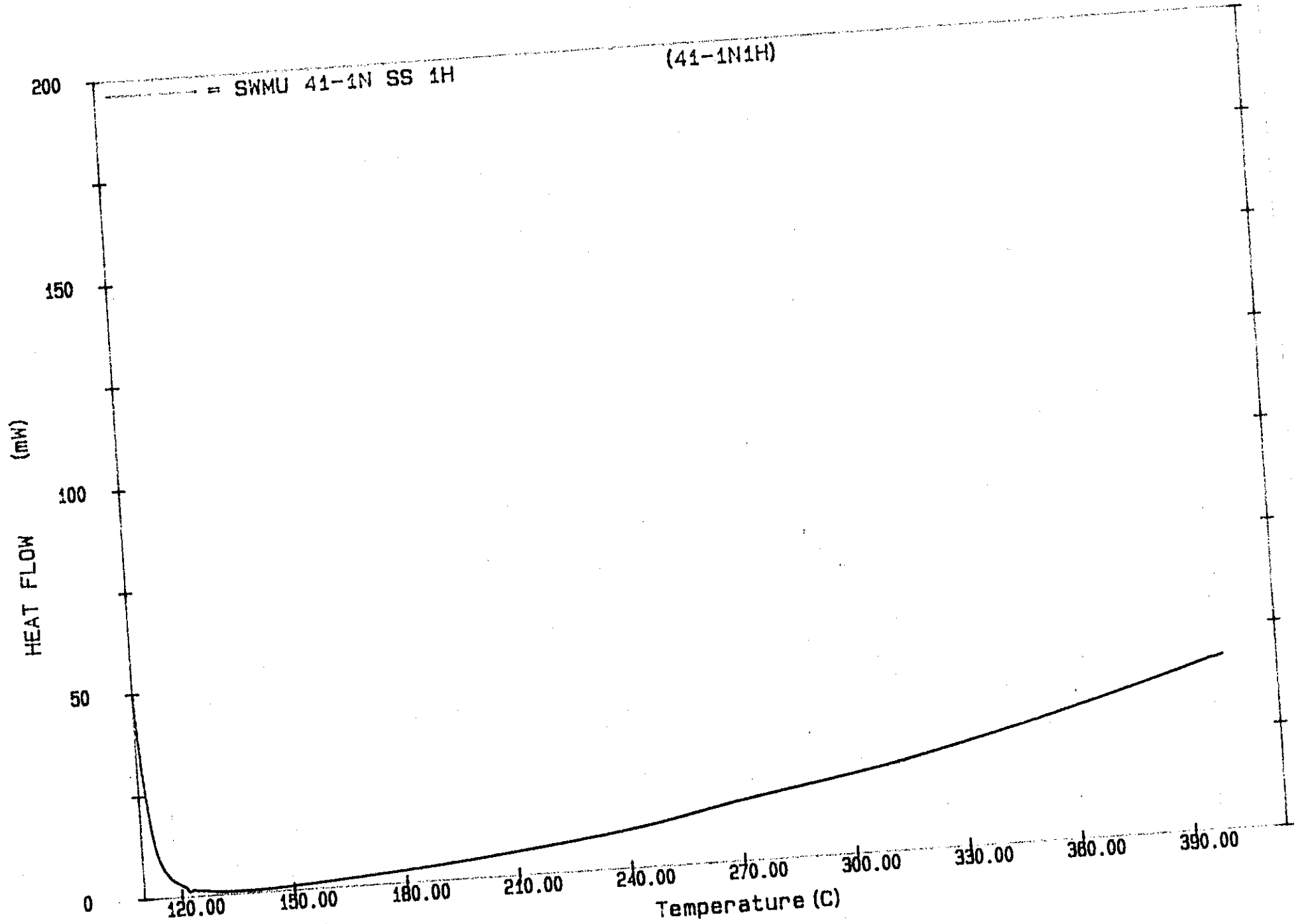
Date: Jul 16, 1996 7:07pm
Scanning Rate: 20.0 C/min
Samp[illegible] Wt: 0.000 mg Path: UXB\
Fil[illegible]: SM411N1E ST 8-22-96

YNO NOBEL



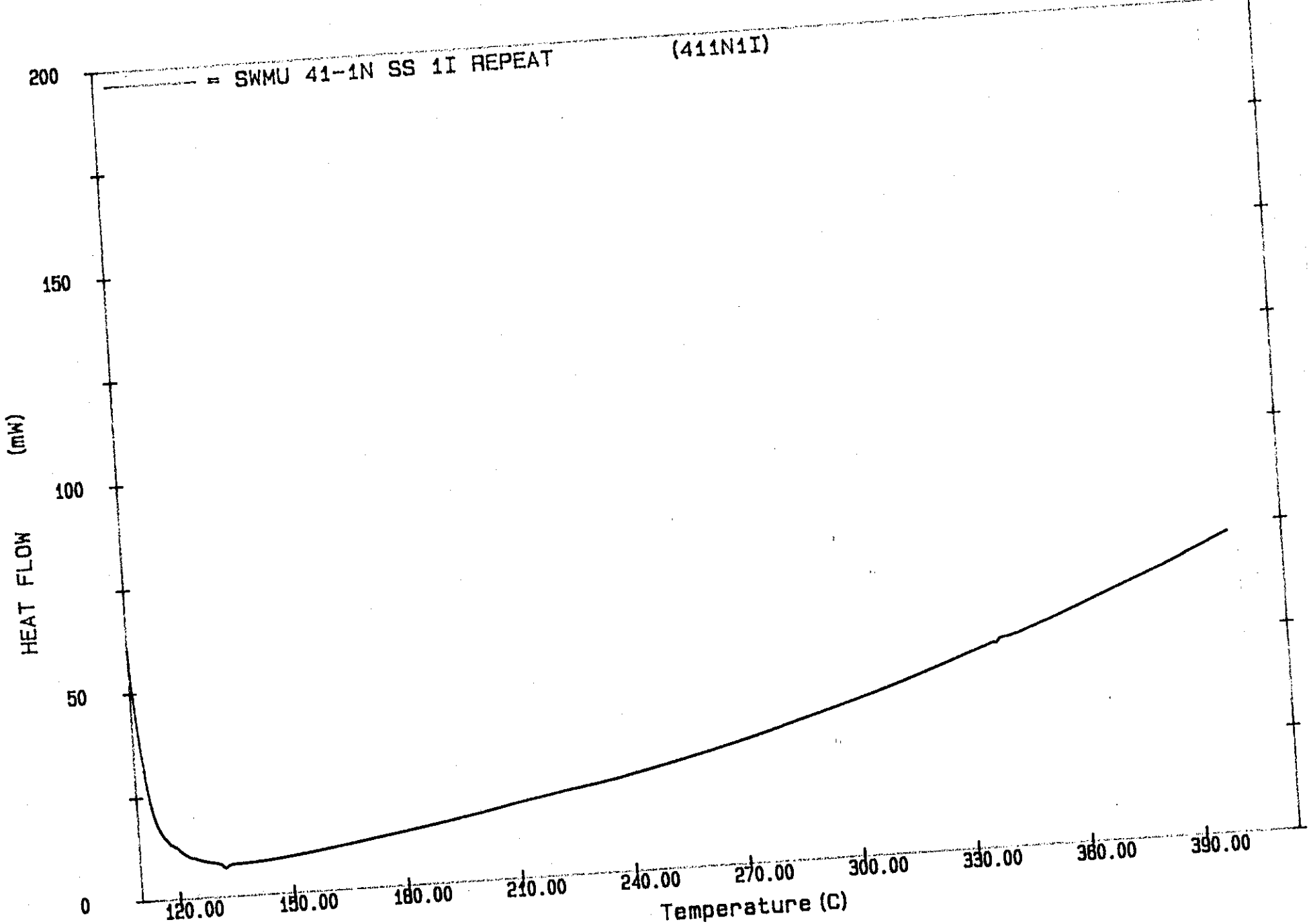
Date: Jul 16, 1996 8:02pm
Scanning Rate: 20.0 C/min
Samp' Wt: 0.000 mg Path: UXB\
Fi... 411N1G ST 8-22-96

'YNO NOBEL



Date: Jul 16, 1996 8: 22pm
Scanning Rate: 20.0 C/min
Samr Wt: 0.000 mg Path: UXB\
Fi 1: 41-1N1H ST 8-22-96

DYNO NOBEL



Date: Jul 16, 1996 9:36pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File 411N1I ST 8-22-96

NO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8/22/96 SAMPLE NO# SS INIA

TESTER WIGON/COOK/S [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. X		1.	/	1.	1. Comp. Neg
2. X		2.	/	2.	2.
3. X		3.	/	3.	3.
4. X		4.	/	4.	4.
5.	X	5.	/	5.	5.
6.	X	6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8/22/96 SAMPLE NO# SS 1N1B

TESTER Wgow/cook/[illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. X		1.	/	1.	1. Comp Neg
2. X		2.	/	2.	2.
3. X		3.	/	3.	3.
4.	X	4.	/	4.	4.
5.	X	5.	/	5.	5.
6.	X	6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8/22/96 SAMPLE NO# SS 1N1C

TESTER WGON/COOK/S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1.
2.	X	2.	/	2.	2.
3. X		3.	/	3.	3.
4. X		4.	/	4.	4.
5.	X	5.	/	5.	5.
6.	X	6.	/	6.	6.

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8/22/96 SAMPLE NO# SS 1 N 1 D

TESTER WGON/COOK / S. Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. X		1.	/	1.	1. Neg
2. X		2.	/	2.	2.
3.	X	3.	/	3.	3.
4. X		4.	/	4.	4.
5.	X	5.	/	5.	5.
6. X		6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8/22/96 SAMPLE NO# SS 1N1 E

TESTER Wigan / Cook / D Shrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. X		1.	/	1.	1. Neg
2.	X	2.	/	2.	2.
3. X		3.	/	3.	3.
4.	X	4.	/	4.	4.
5.	X	5.	/	5.	5.
6. X		6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8/22/96 SAMPLE NO# SS 1N1F

TESTER Nowak / Cook / S. Hoyt

FRICTION TEST:

	Reactive Yes	No
1.	X	
2.	X	
3.		X
4.		X
5.		X
6.		

IMPACT TEST:

	Reactive Yes	No
1.		
2.	/	
3.	/	
4.	/	
5.	/	
6.	/	

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

ng

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/22/96 SAMPLE NO# SS 1NIG

TESTER Wigon / Cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1.
2. X		2.	/	2.	2.
3. X		3.	/	3.	3.
4.	X	4.	/	4.	4.
5.	X	5.	/	5.	5.
6.	X	6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU H/N DATE 8/22/96 SAMPLE NO# SS 1N1H

TESTER L/Gow/Cook / 8 [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1.	Neg
2.	X	2.	/	2.	2.	
3. X		3.	/	3.	3.	
4.	X	4.	/	4.	4.	
5. X		5.	/	5.	5.	
6.	X	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41N DATE 8/22/96 SAMPLE NO# SS 1N1I

TESTER LIGON / COOK / S. [illegible]

FRICTION TEST: Reactive	Yes	No	IMPACT TEST: Reactive	Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X		1.		/	1.	1.	Neg
2.		X	2.		/	2.	2.	
3.		X	3.		/	3.	3.	
4.		X	4.		/	4.	4.	
5.		X	5.		/	5.	5.	
6.	X		6.		/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

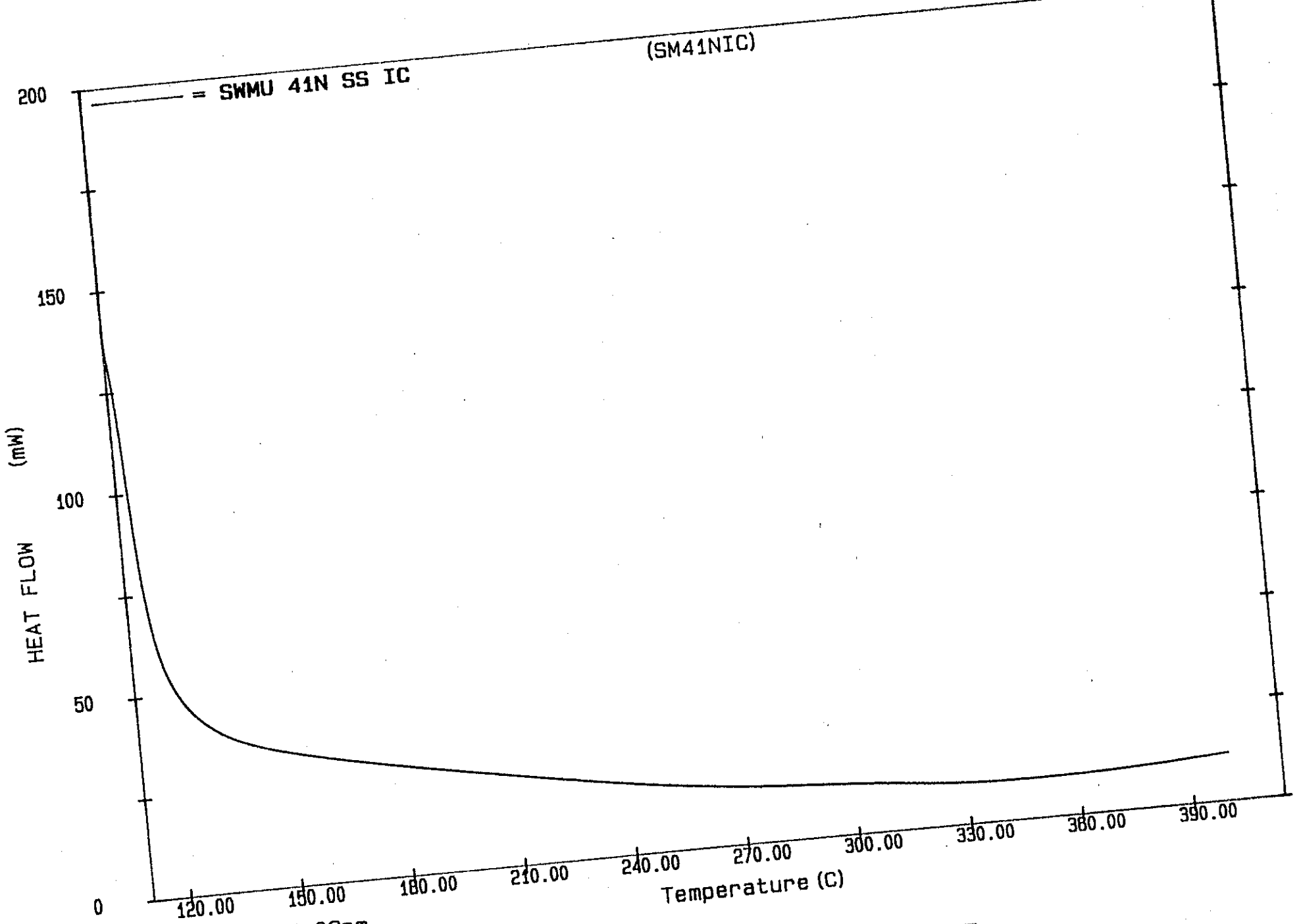
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-26-96	SWMU 41N							
	IC	N	N	N	N	N	N	N
8-29-96	IN	N	N	N	N	N	N	N
	IE	N	N	N	N	N	N	N
	IS	N	N	N	N	N	N	N
	IW	N	N	N				

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



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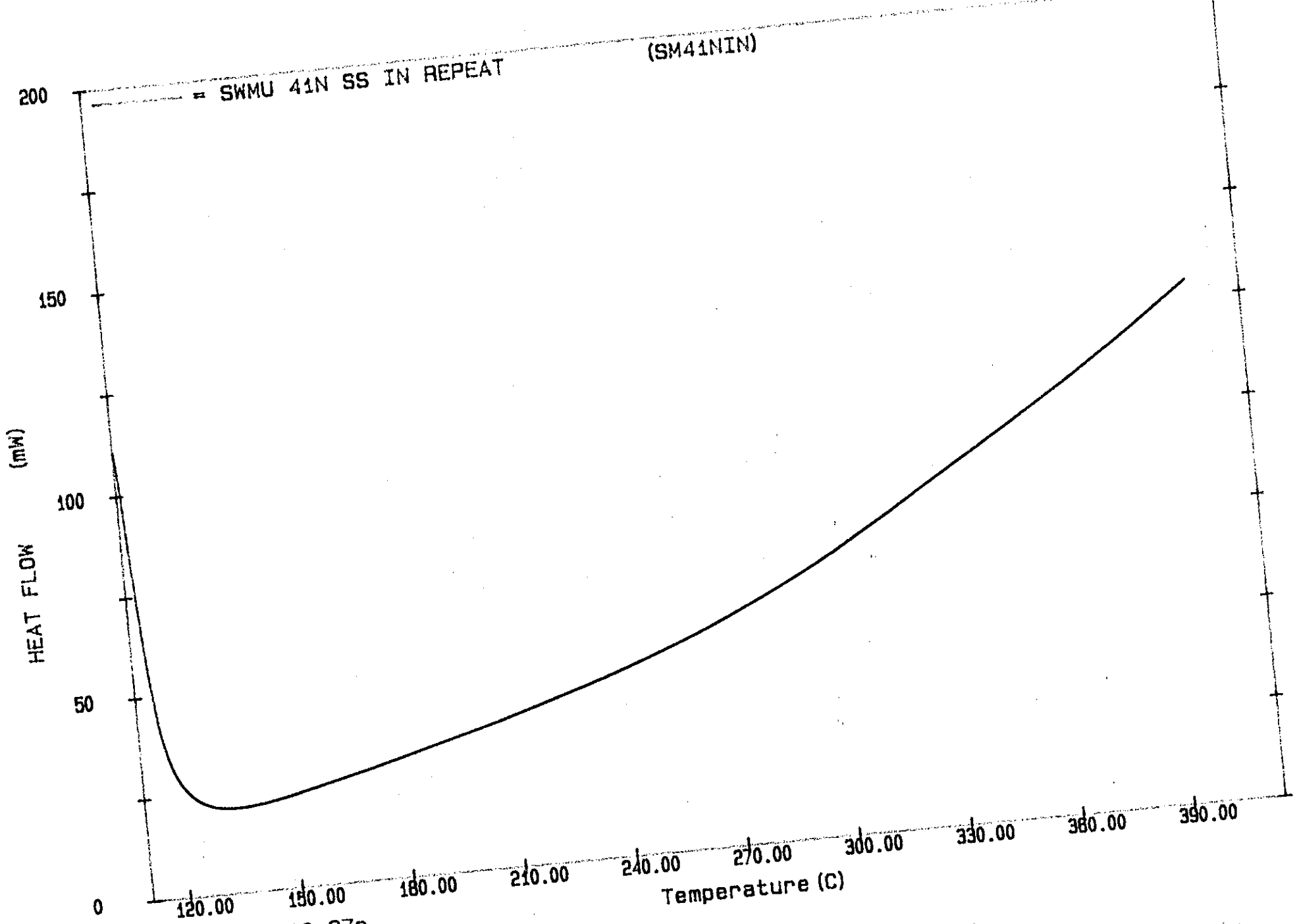
PE[illegible] TN-ELMER DSC7



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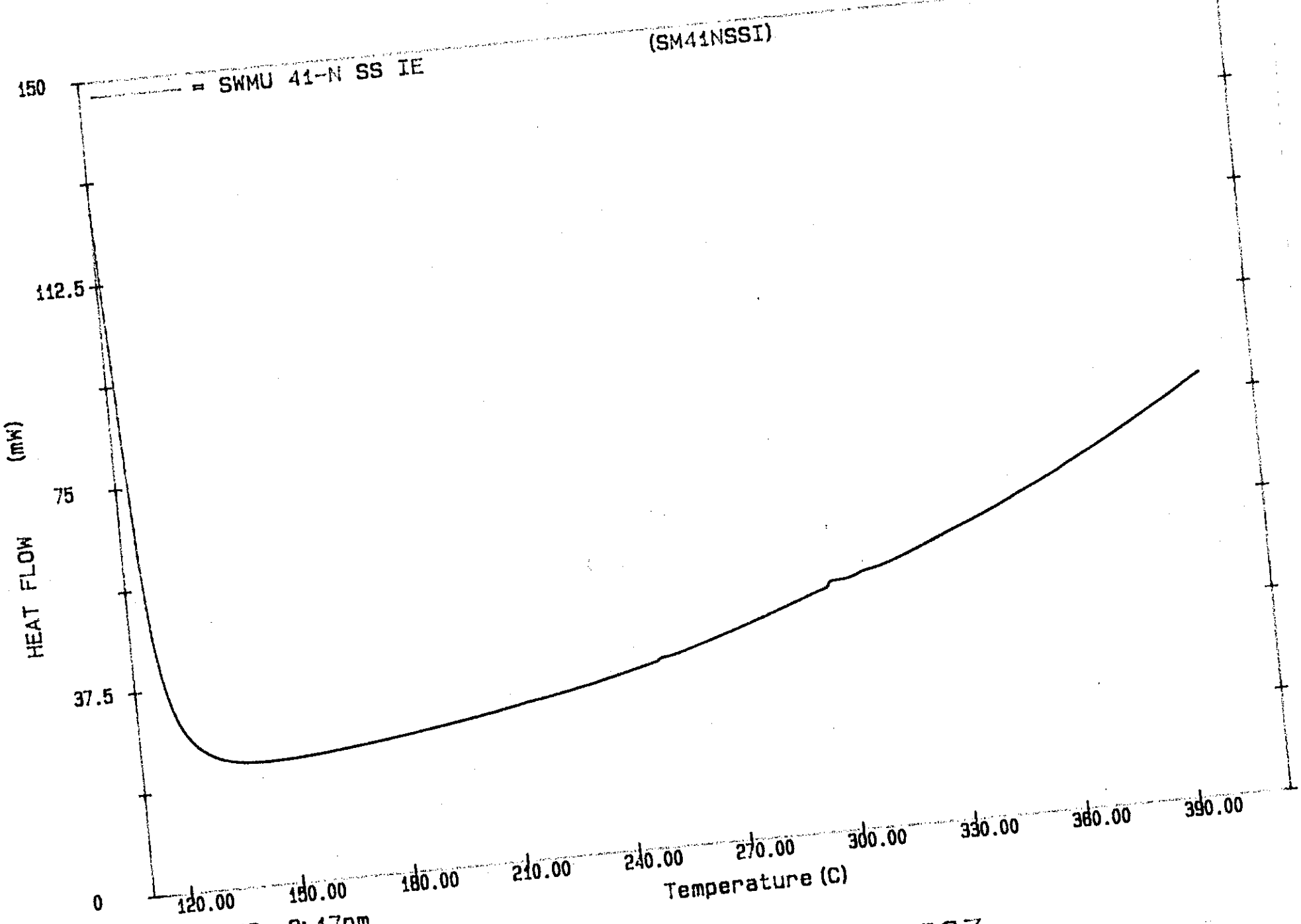
File SM41NIN ST 8-26-96

PEF TN-ELMER DSC7



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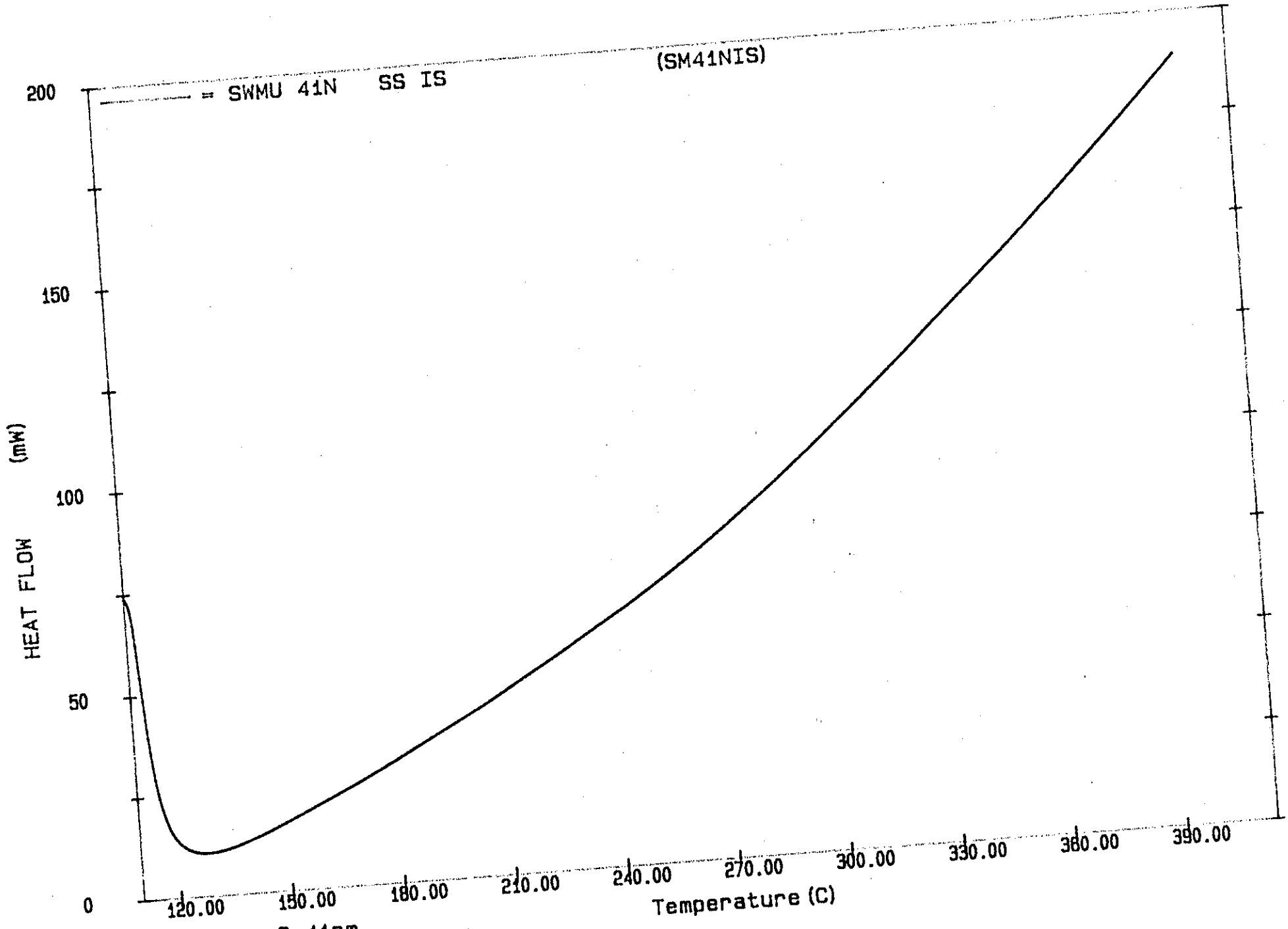

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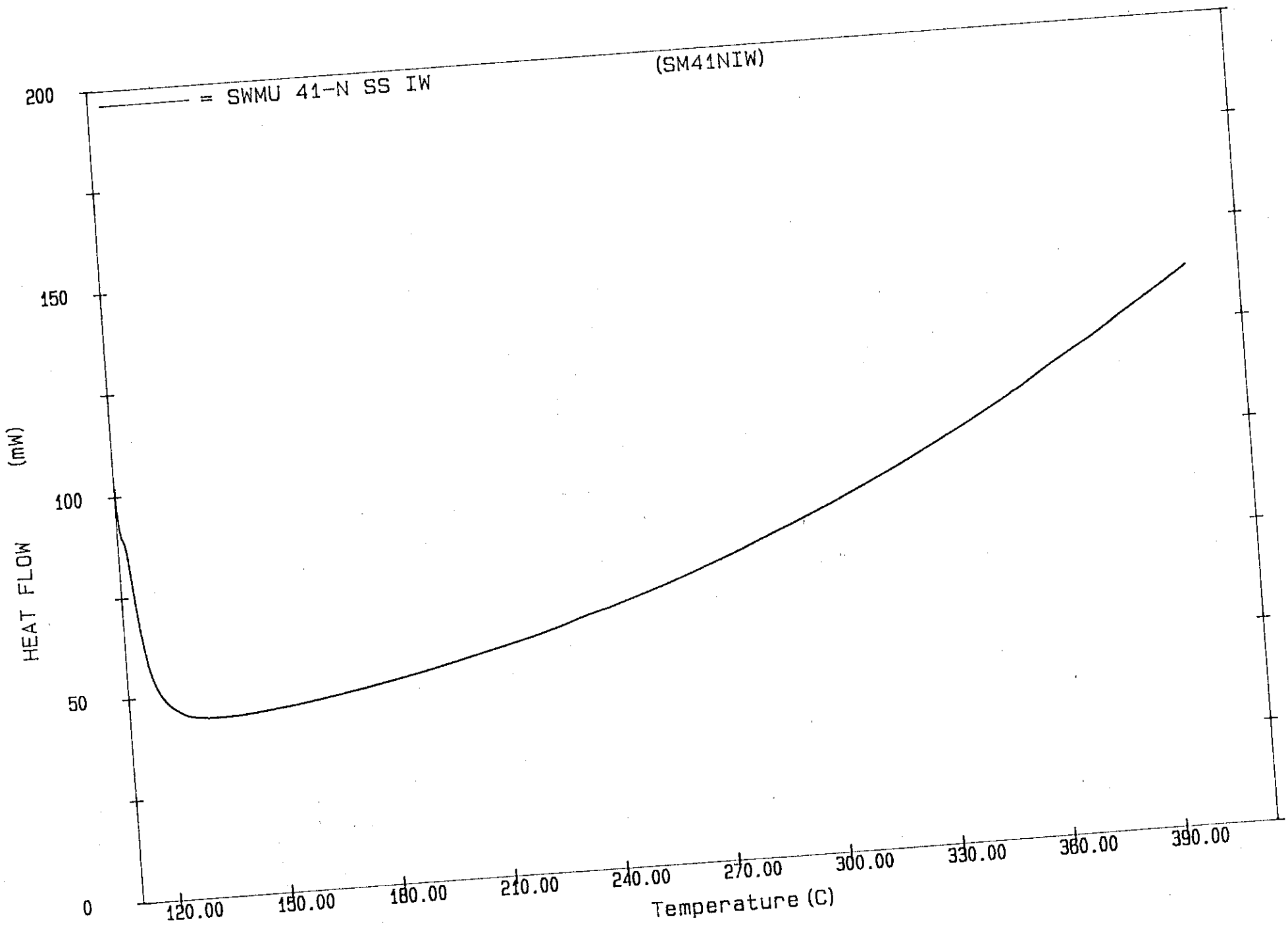
File: SM41NIS ST 8-26-96

PE IN-ELMER DSC7



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PE[illegible] IN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8-26-96 SAMPLE NO# SS IC

TESTER Thrift Cook / D Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41N DATE 8-26-96 SAMPLE NO# SS 1N

TESTER Thrift Cook / 1 Shot

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes / No	Yes / No			
1.	/	1.		1.	1.
2.	/	2.	/	2.	2.
3.	/	3.	/	3.	3.
4.	/	4.	/	4.	4.
5.	/	5.	/	5.	5.
6.	/	6.	/	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 U DATE 8-26-96 SAMPLE NO# SS I E

TESTER Thrift Cook / Shrift DEPTH

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41N DATE 8-26-96 SAMPLE NO# SS 1N

TESTER Thrift Cook / 1 shot

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes / No	Yes	No /		
1.		1.		1.	1.
2.	/	2.	/	2.	2.
3.	/	3.	/	3.	3.
4.	/	4.	/	4.	4.
5.	/	5.	/	5.	5.
6.	/	6.	/	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41N DATE 8-26-96 SAMPLE NO# SS IS

TESTER Thrift Cook / Hurst

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8-26-96 SAMPLE NO# SS IW

TESTER Thrift Cook 1 S Thrift

FRICTION TEST:

	Reactive Yes	No
1.		
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No	DEPTH
1.			1.
2.		✓	2.
3.		✓	3.
4.	✓		4.
5.	✓		5.
6.	✓		6.

CALORIMETRIC TEST:
Results Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-27-96	SUM4 4N							
	S1	N	N	N	N	N	N	N
	S2	N	N	N	N	N	N	N
	S3	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

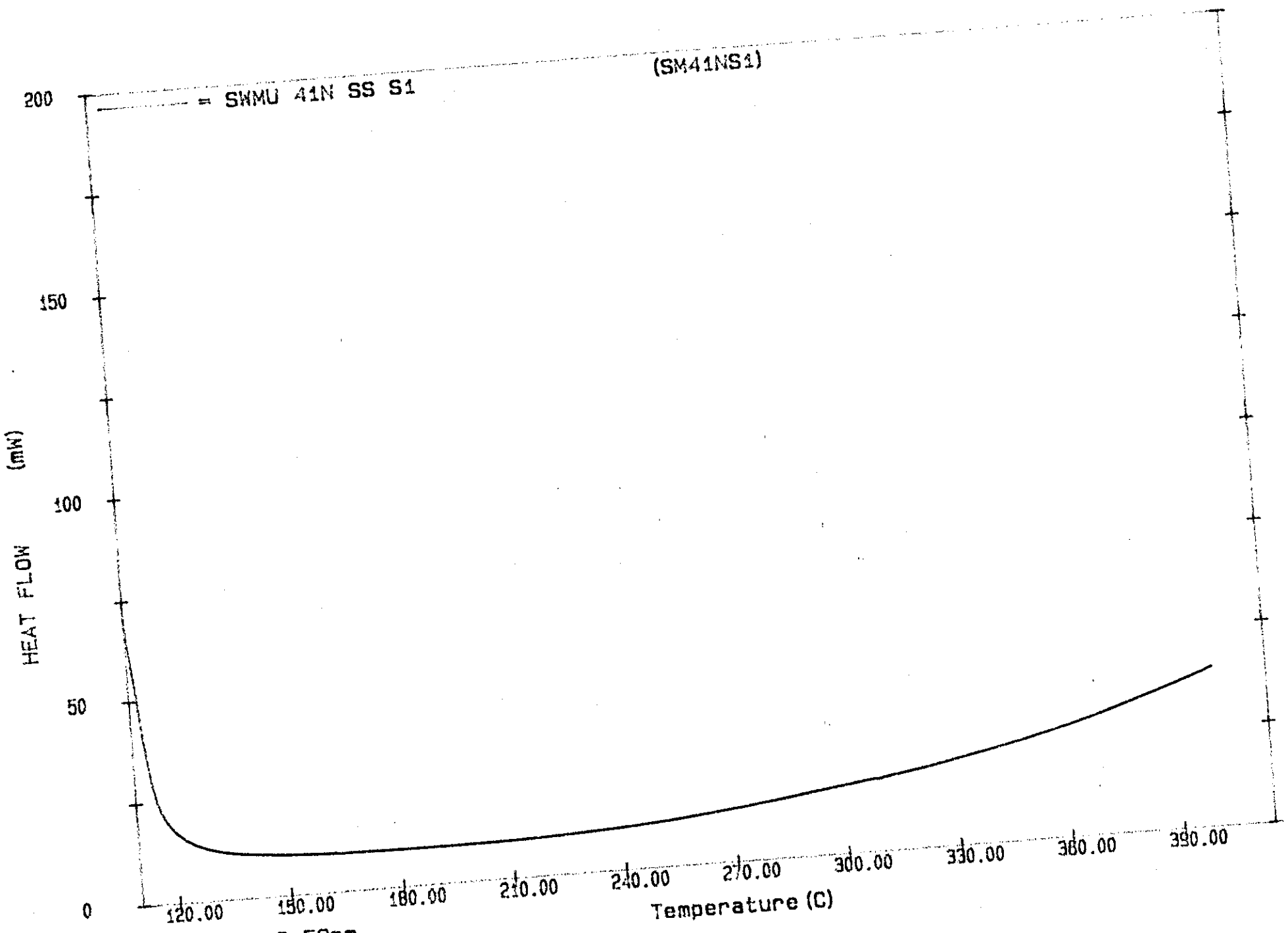
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

N= NO



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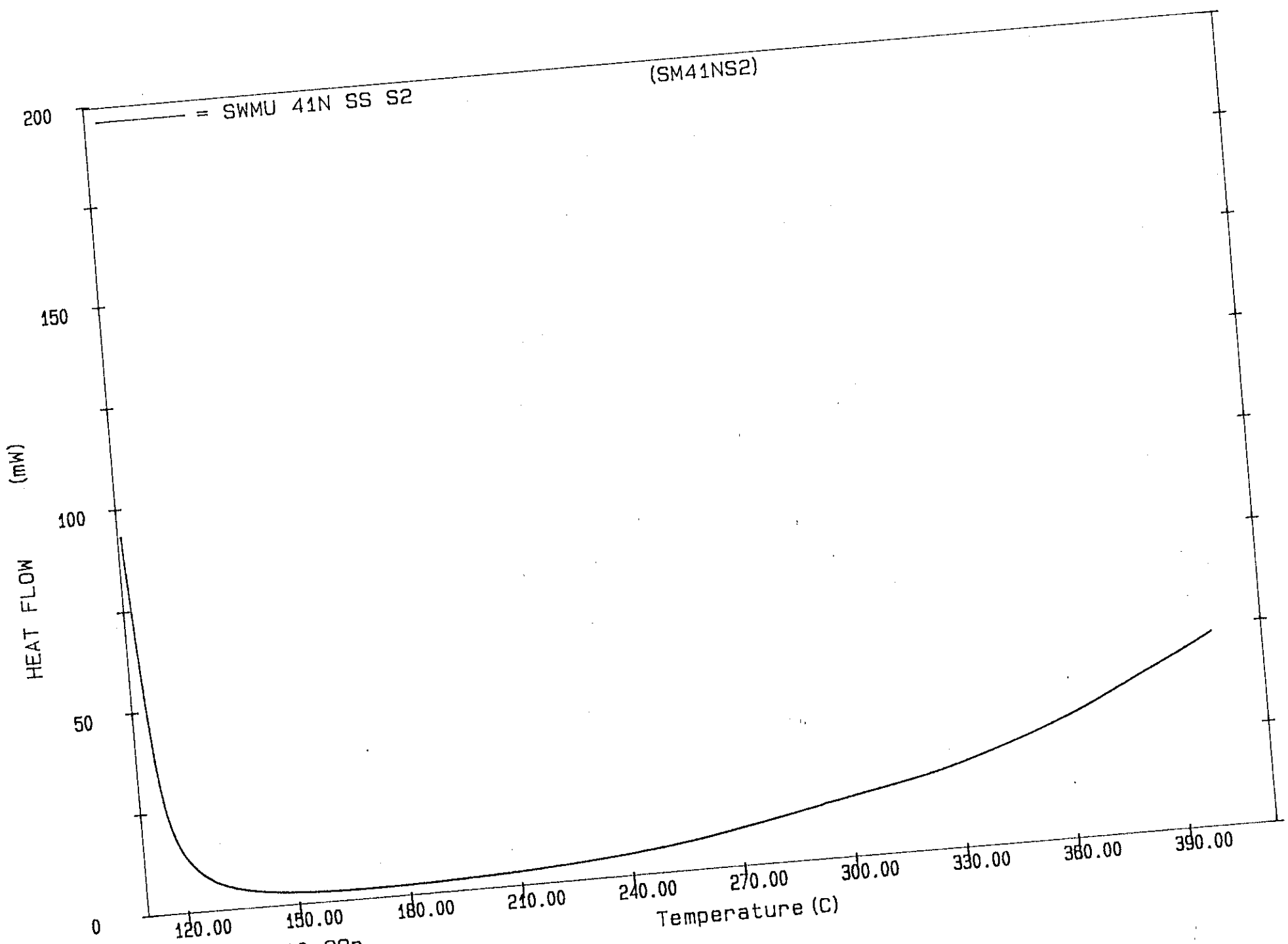
PERKIN-ELMER DSC7



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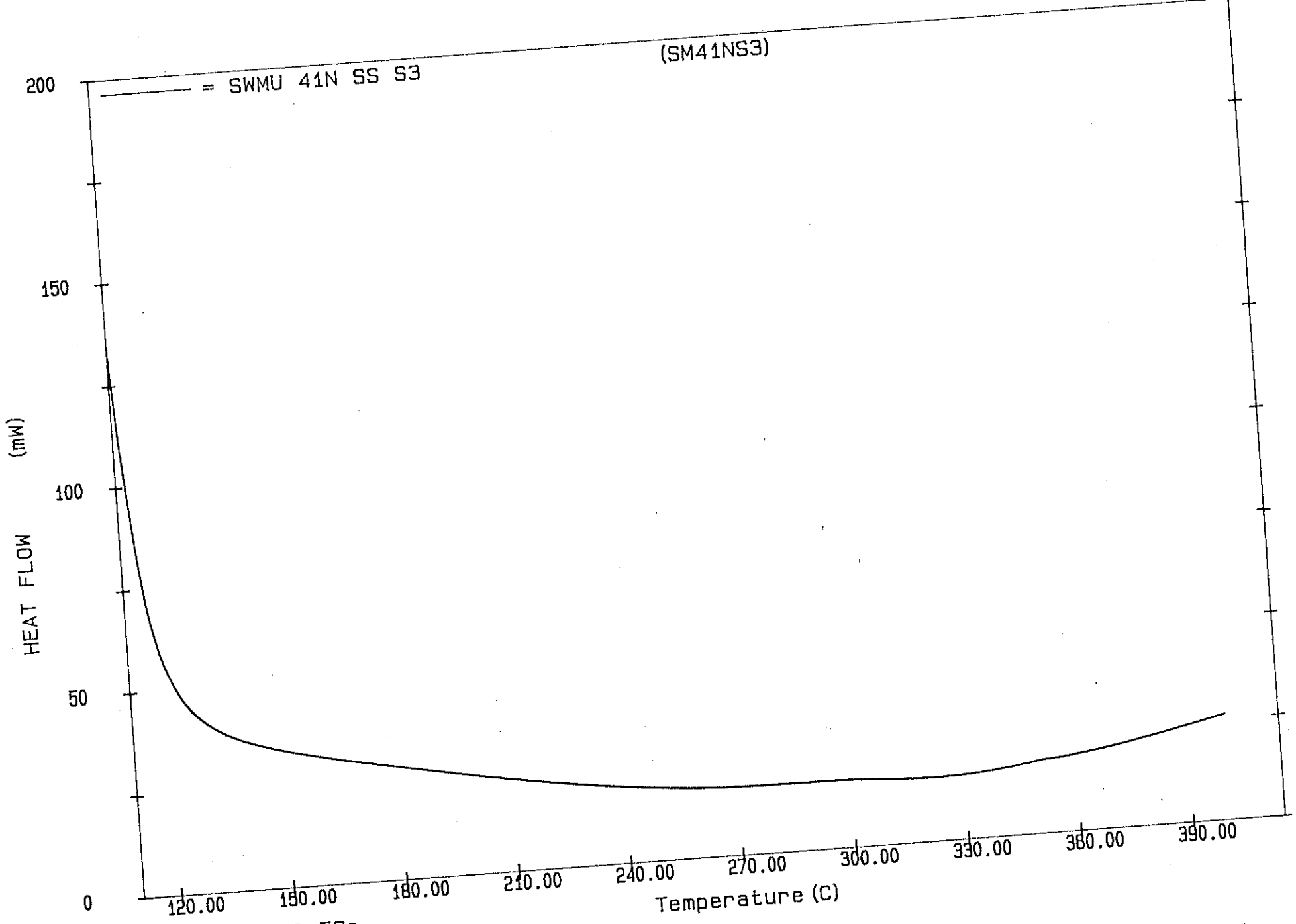
SM41NS2 ST 8-27-96

PE..KTN-FLMFR DSC7



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Fi[illegible] SM41NS3 ST 8-27-96

PE[illegible]N-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 4/N DATE 8-27-96 SAMPLE NO# SS 51

TESTER Thrift / Wilhelmy/Stuart

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

DEPTH

1. 1.
2. 2.
3. 3.
4. 4.
5. 5.
6. 6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8-27-96 SAMPLE NO# SS S2

TESTER THRIFT Wilhelmy/B Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 N DATE 8-27-96 SAMPLE NO# SS 53

TESTER THRIFT / Wilhelm / Dimpt

FRICTION TEST: Reactive		IMPACT TEST: DEPTH Reactive			CALORIMETRIC TEST: Results
Yes	No	Yes	No		
1.	✓	1.	✓	1.	Neg
2.	✓	2.	✓	2.	
3.	✓	3.	✓	3.	
4.	✓	4.	✓	4.	
5.	✓	5.	✓	5.	
6.	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

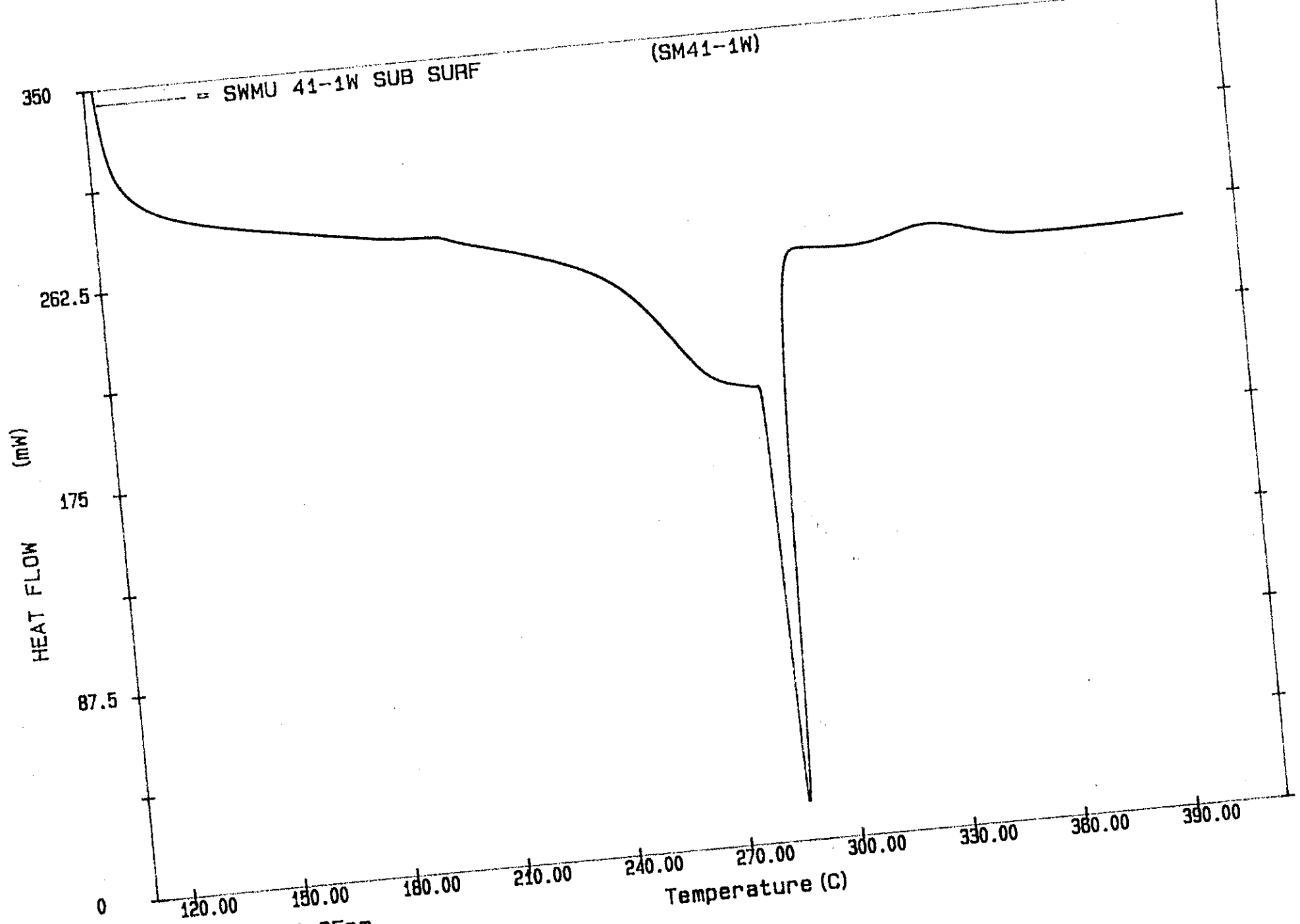
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
					Y	TR	N	Y
8-21-96	SWMU 41W	TRACE	N	N	Y	TR	N	Y
	41-1W	TR	N	N	Y	N	N	Y
	41-2W	N	N	N	Y	N	N	Y
	41-3W	N	N	N	Y	N	N	Y
	41-4W	N	N	N				

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



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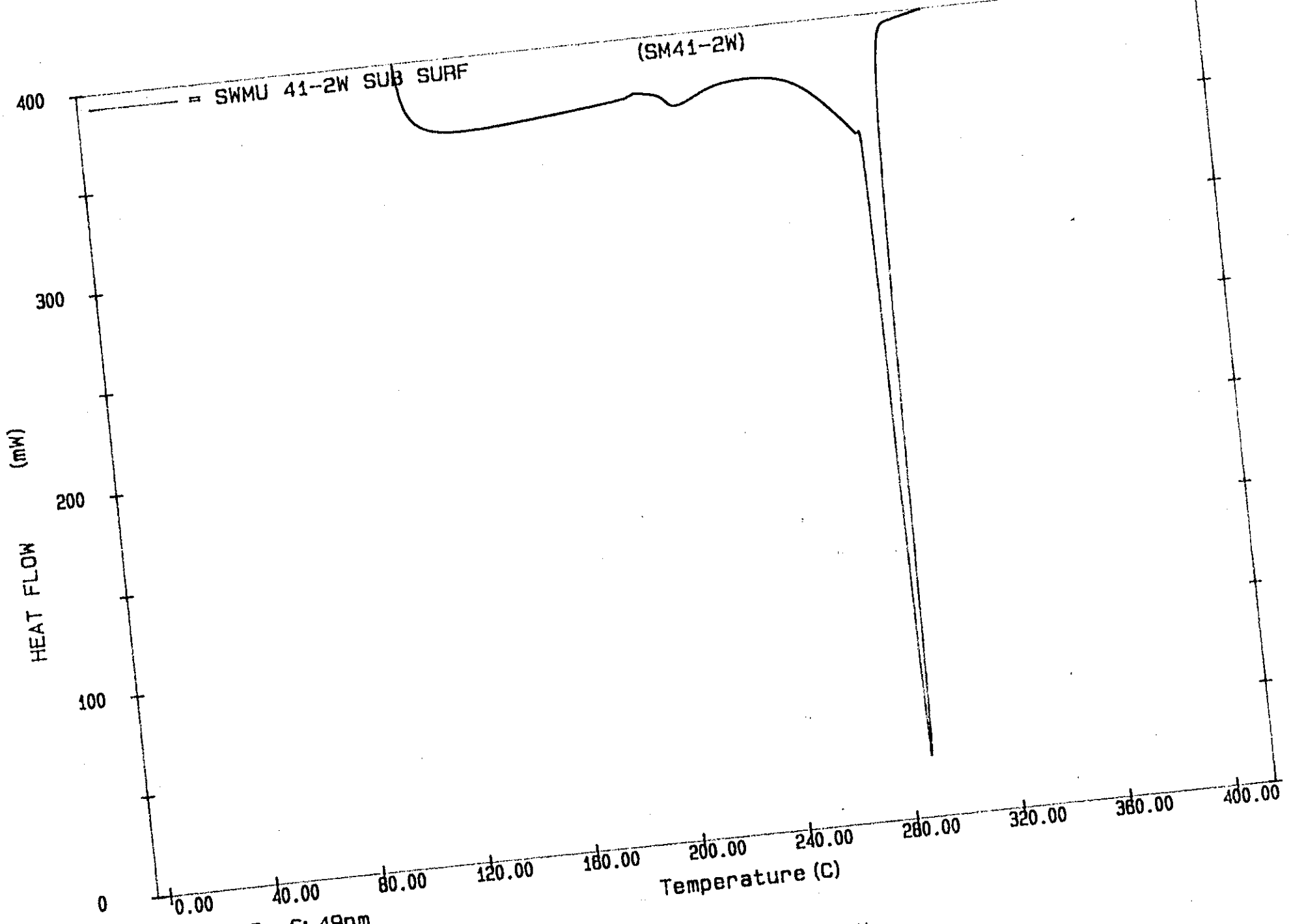
Fi... 1: SM41-1W ST 8-21-96

DYNO NOBEL



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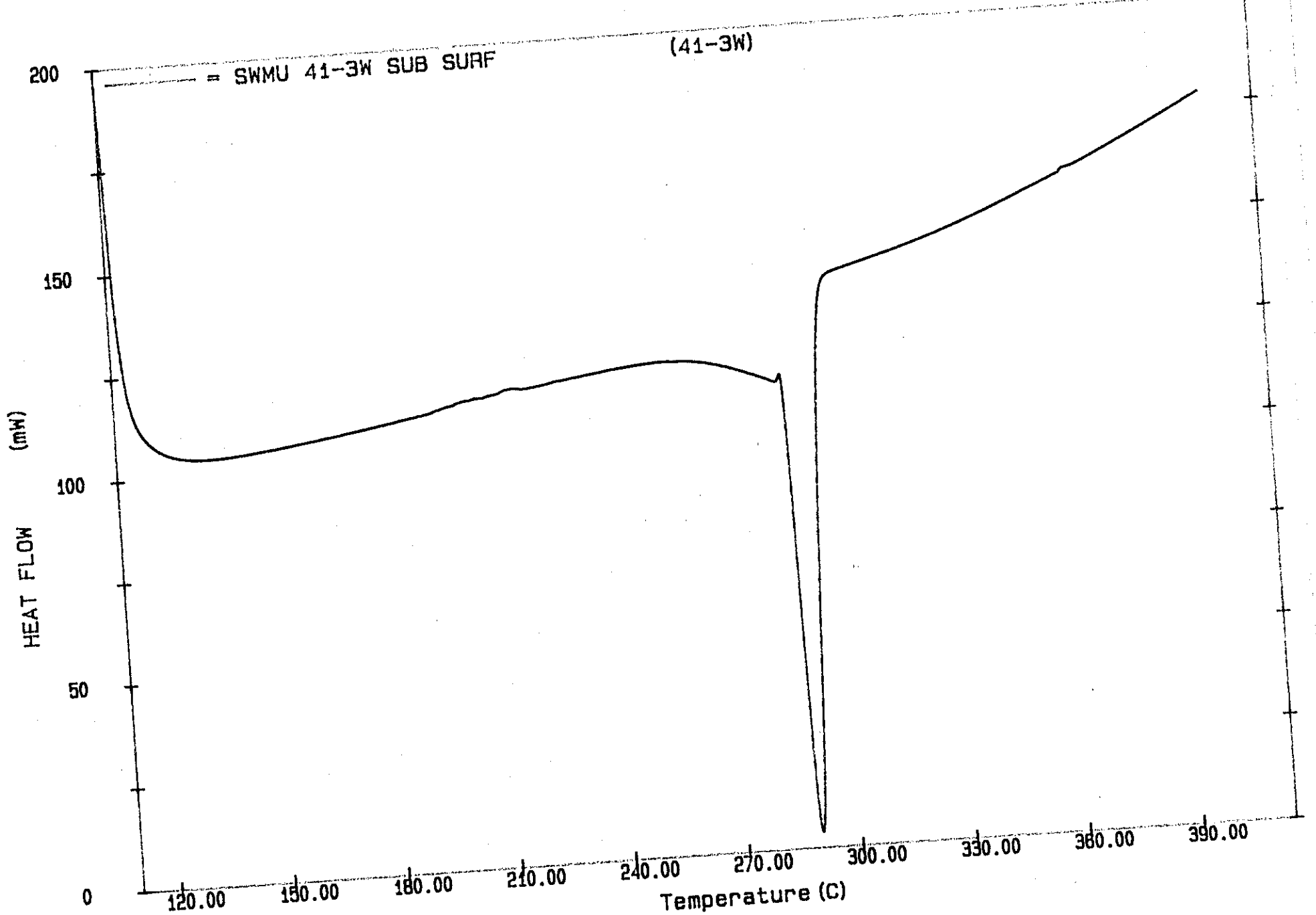
Fi 1: SM41-2W ST 8-21-96

DYNO NOBEL



Date: Jul 15, 1996 7: 19pm
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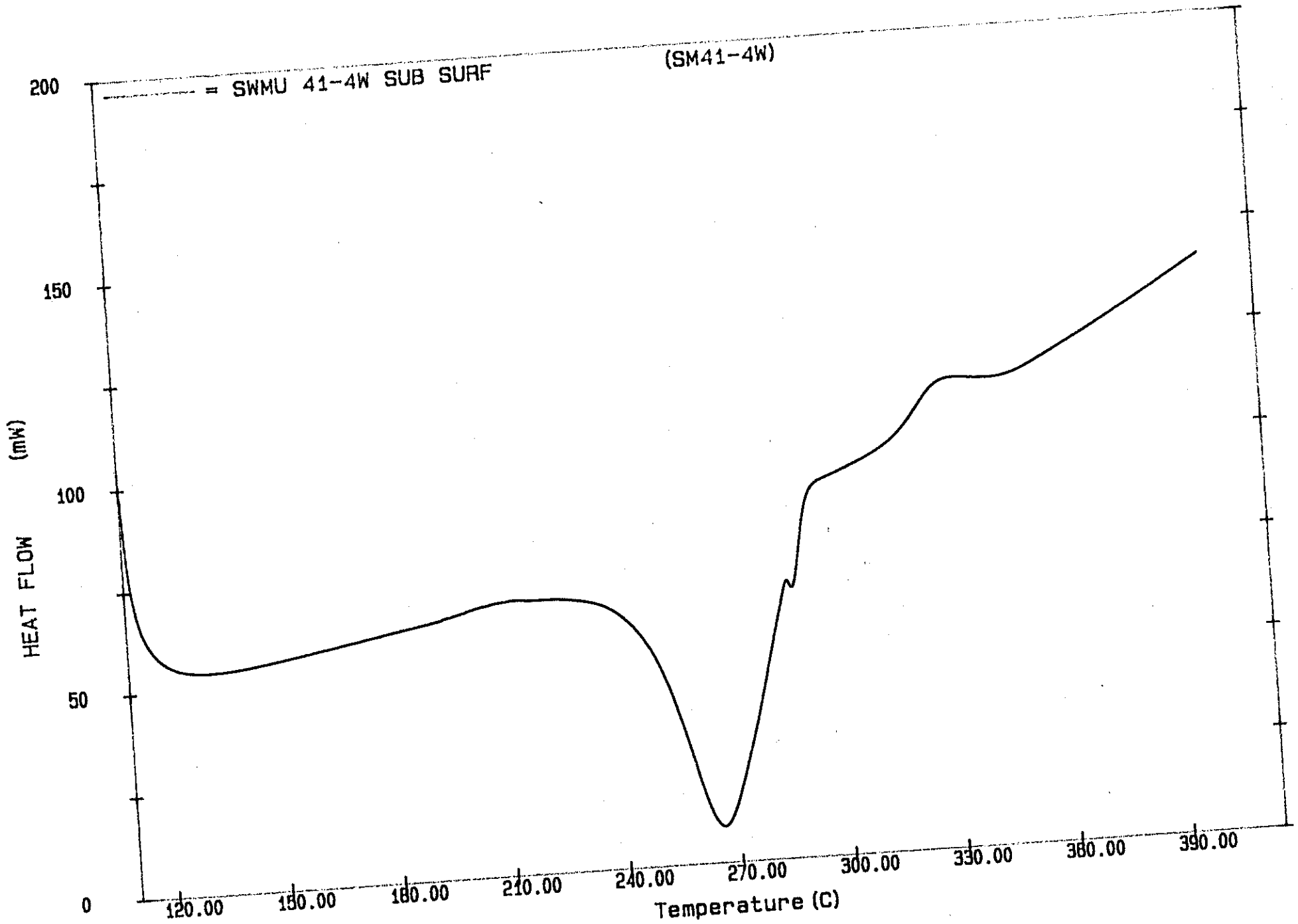
Sample Wt: 0.000 mg Path: UXB\
F. 41-3W ST 8-21-96

NYNO NOBEL



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Scanning Rate: 20.0 C/min
Sample ''t: 20.000 mg Path: UXB\
Fi... M41-4W ST 8-21-96

NO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/21/94 SAMPLE NO# SS 1

TESTER Thrift/Igon Cook, Hurst

FRICTION TEST:

	Reactive Yes	No
1.	✓	
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	No		
1.		✓	1.	1.
2.	✓		2.	2.
3.	✓		3.	3.
4.	✓		4.	4.
5.	✓		5.	5.
6.		✓	6.	6.

CALORIMETRIC TEST:

Results

Positive

Comments:

4000 GRAM TEST WEIGHT ON THE FRICTION TEST

1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE

SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/21/96 SAMPLE NO# SS 2

TESTER Thrift/Ligon Cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	
1.	✓	1.	✓	1.	1.
2.	✓	2. ✓		2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4. ✓		4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

CALORIMETRIC TEST:
Results
Positive

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/24/94 SAMPLE NO# SS 3

TESTER Thrift/Ligon Cook/Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1. ✓		1. ✓		1.	1.	Positive
2.	✓	2. ✓		2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4. ✓		4.	4.	
5.	✓	5. ✓		5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/21/96 SAMPLE NO# SS 4

TESTER Thrift/ligon Cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1. ✓		1.	1.
2.	✓	2. ✓		2.	2.
3.	✓	3. ✓		3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5. ✓		5.	5.
6.	✓	6. ✓		6.	6.

Positive

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

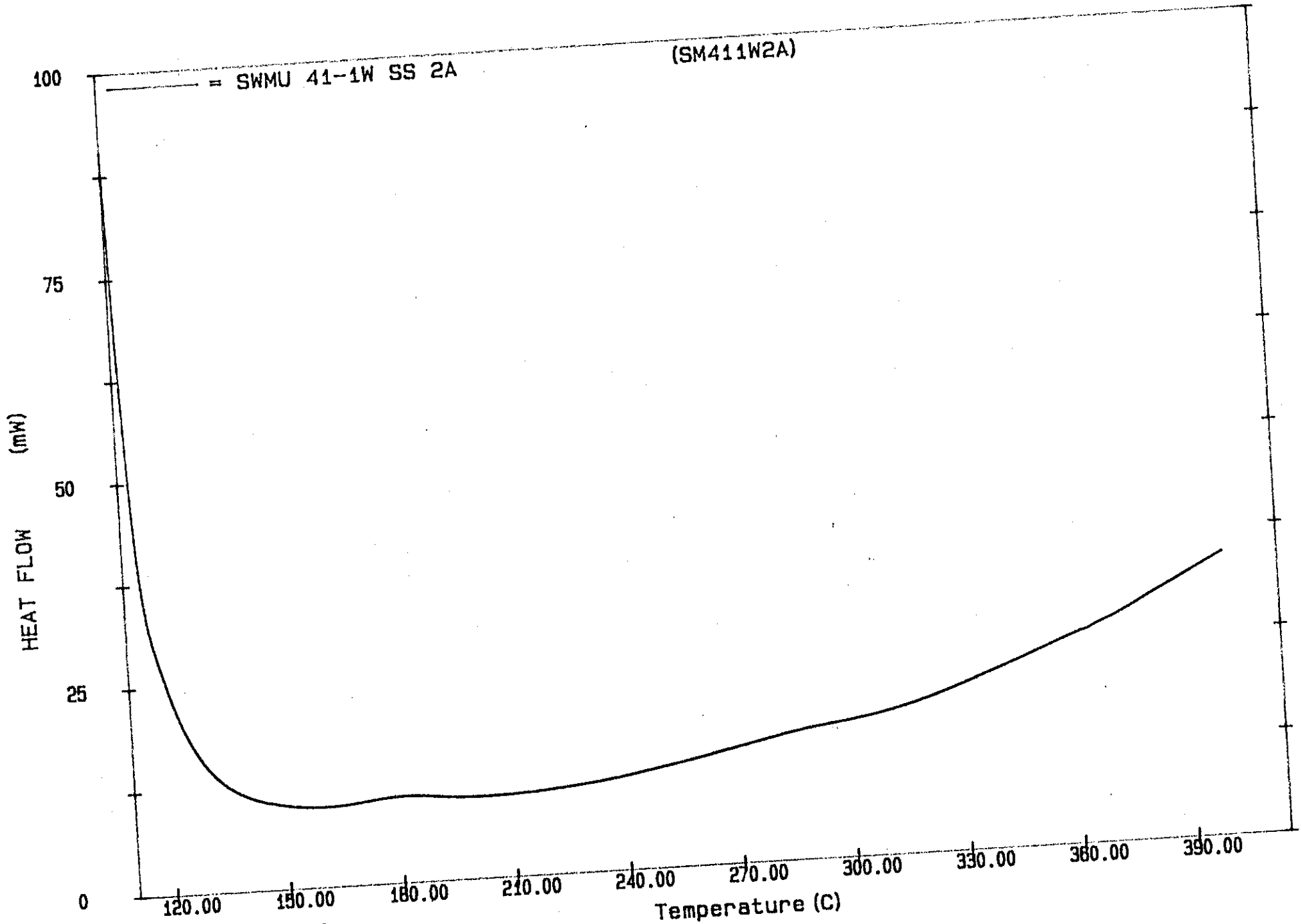
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-22-96	Smu 41-1W							
	SS-2A	N	N	N	N	N	N	N
	2B	N	N	N	N	N	N	N
	2C	N	N	N	N	N	N	N
	2D	N	N	N	N	N	N	N
	2E	N	N	N	N	N	N	N
	2F	N	N	N				

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 16, 1996 4: 46pm
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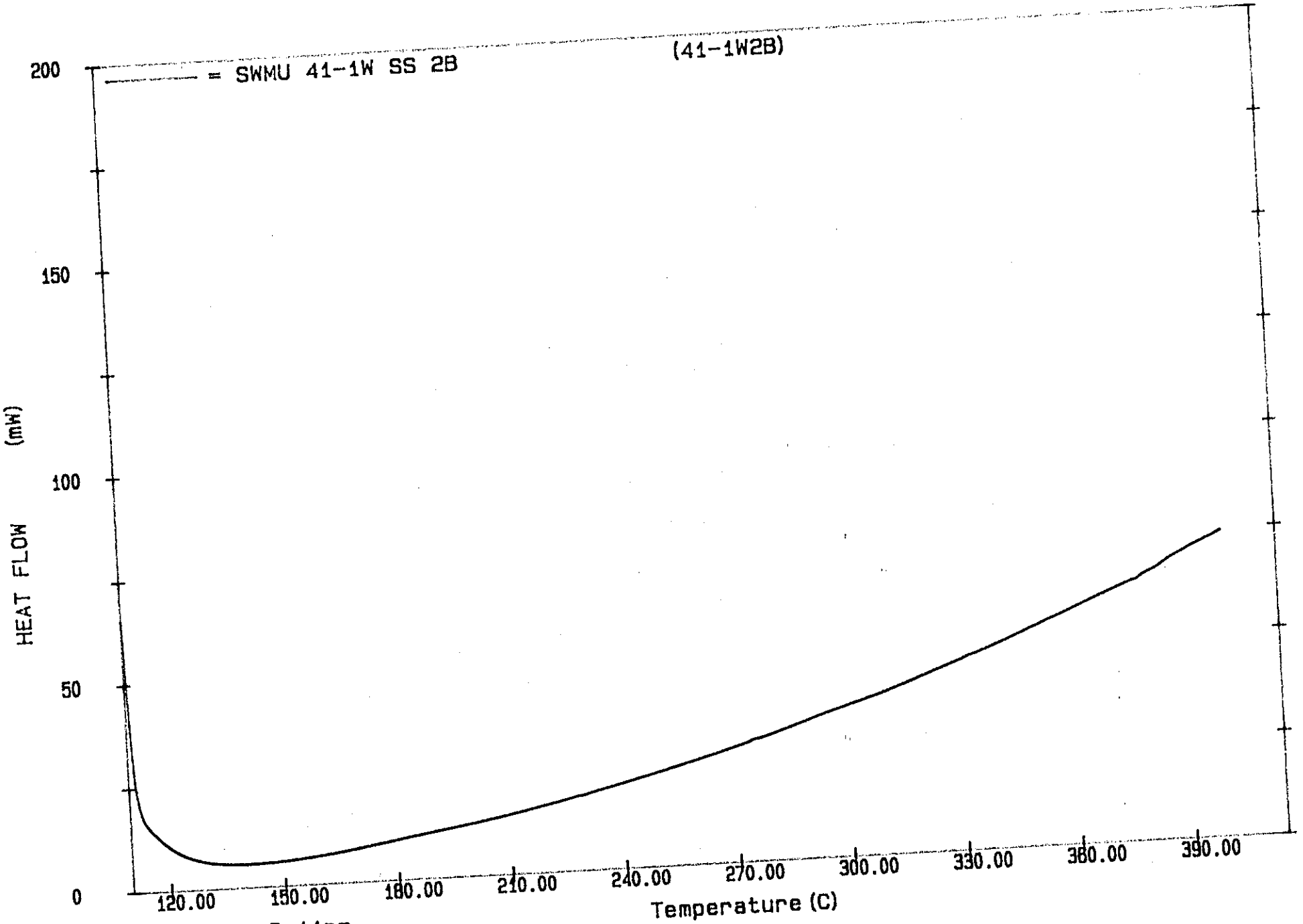
Sampl t: 0.000 mg Path: UXB\
File SM411W2A ST 8-22-96

NO NOBEL



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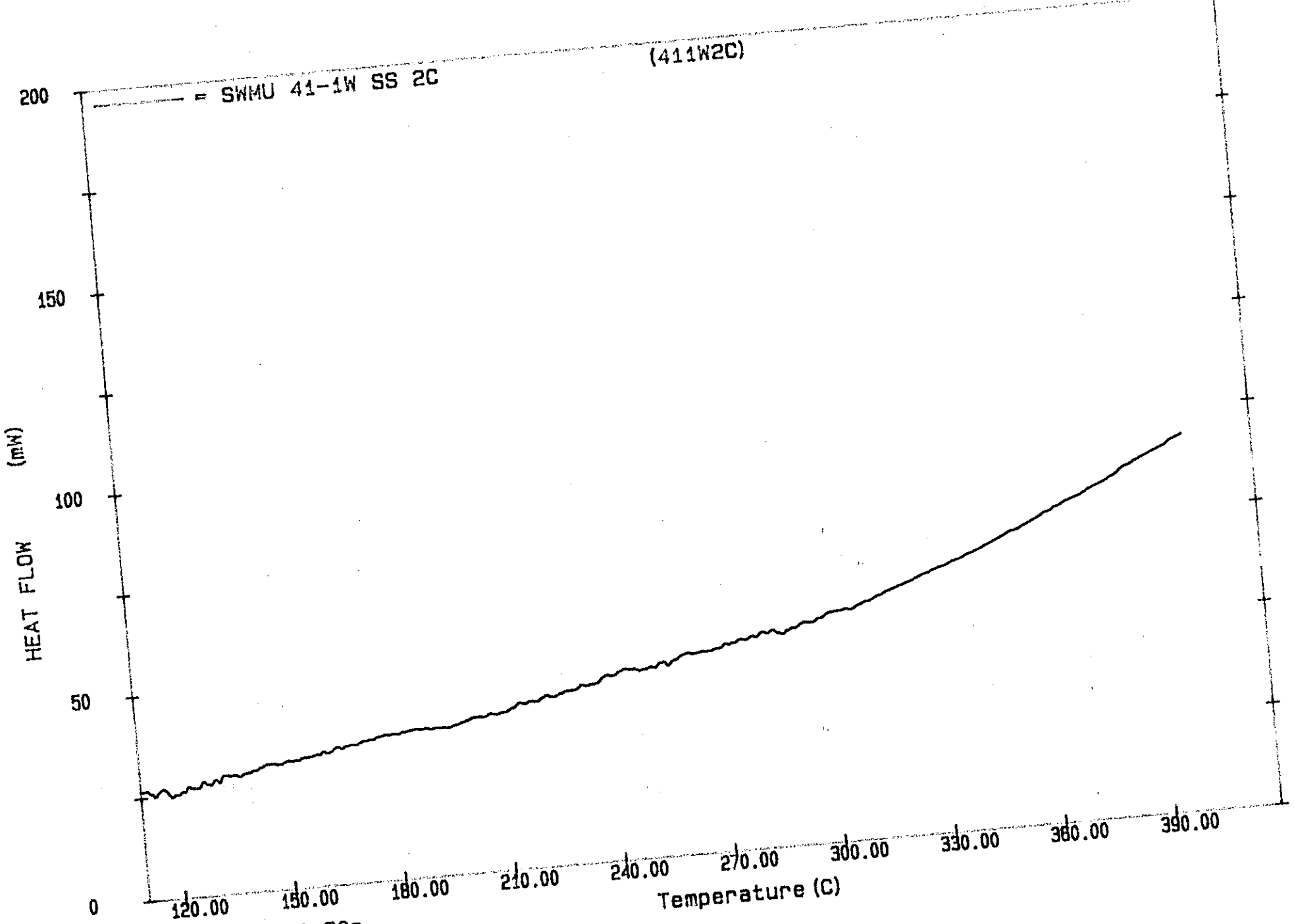
Sample Wt: 0.000 mg Path: UXB\
File -1W2B ST 8-22-96

NO NOBEL



Date: Jul 16, 1996 10: 30p
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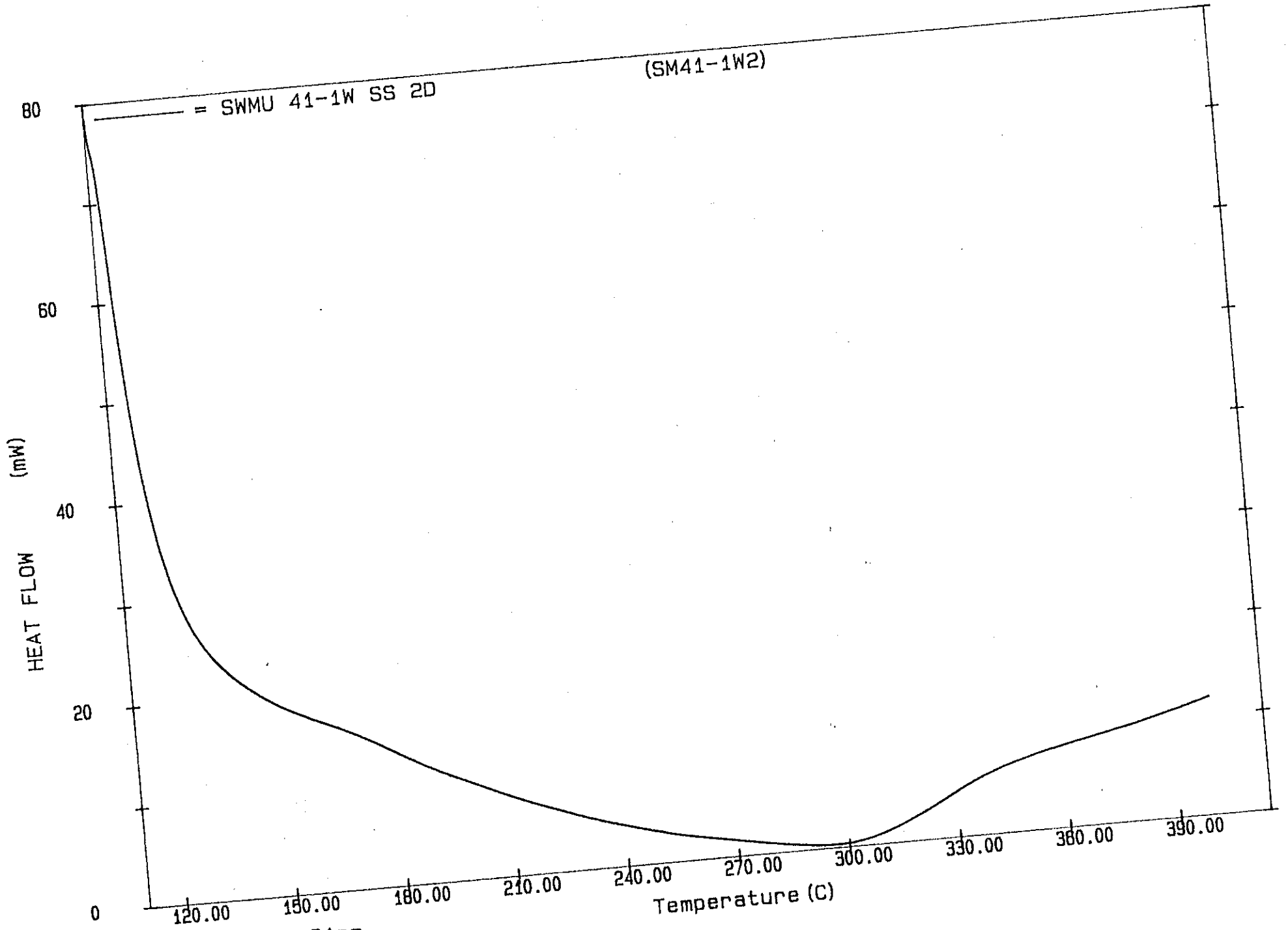
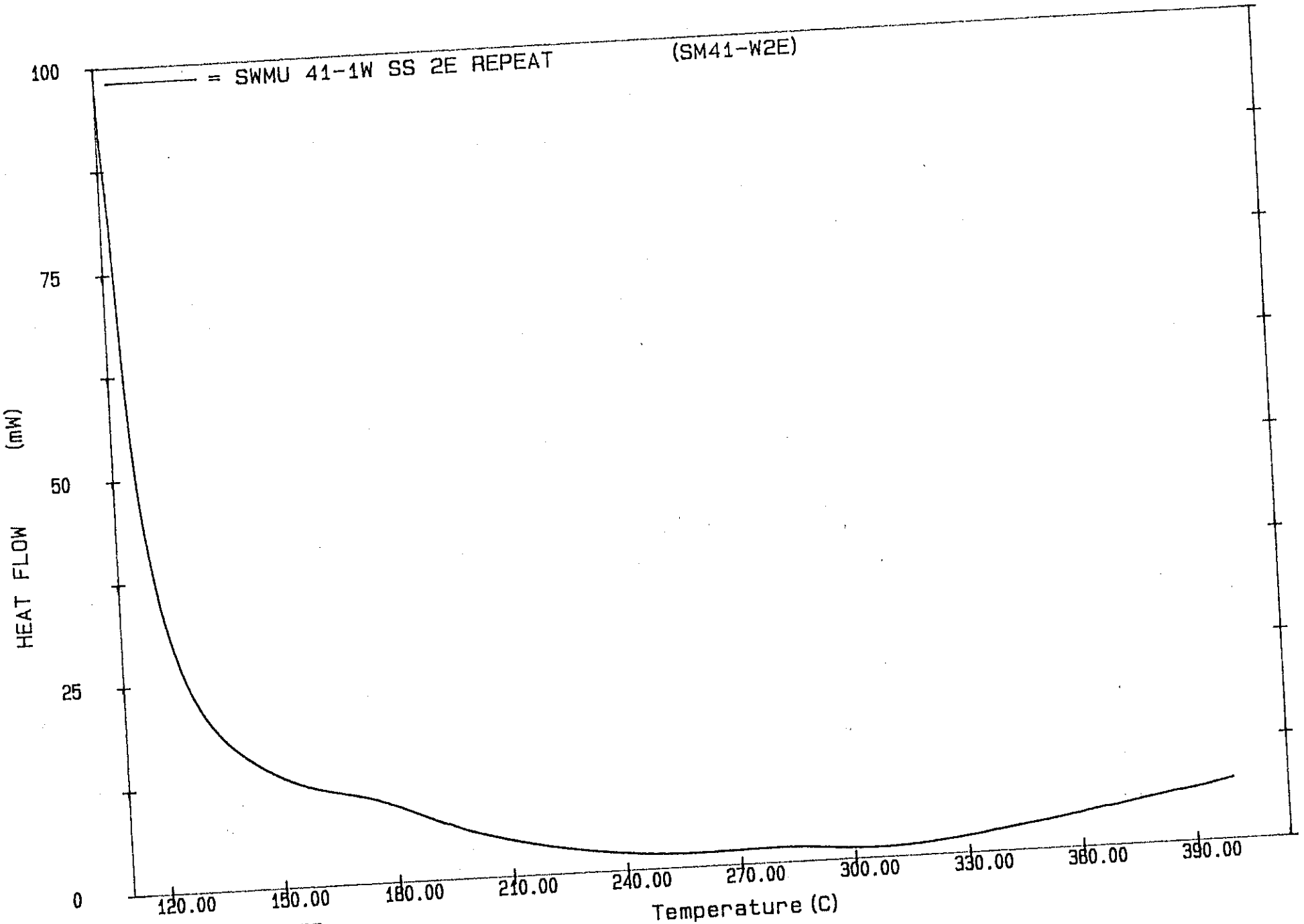
Fil[illegible] 411W2C ST 8-22-96

YNO NOBEL



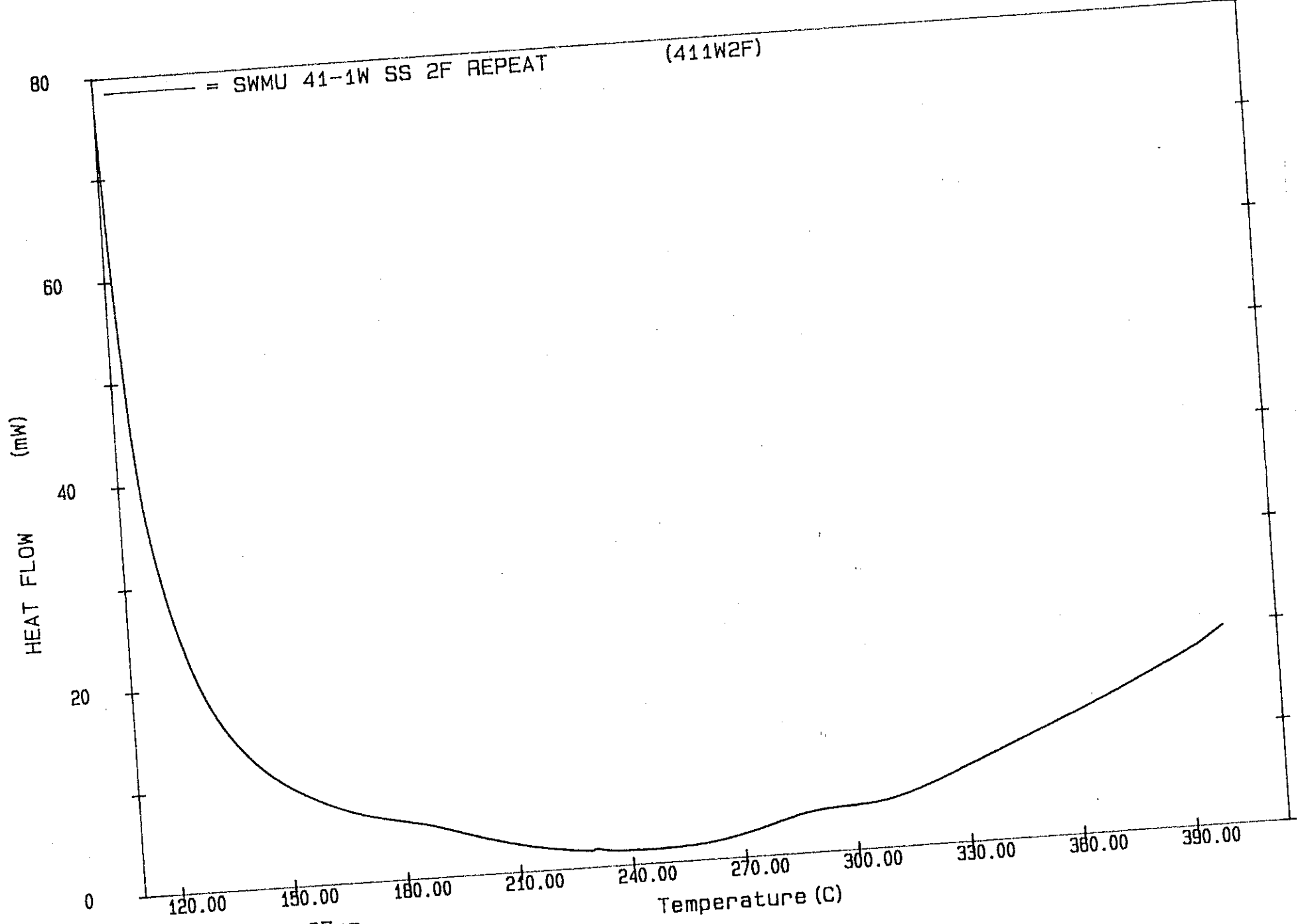
Date: Jul 22, 1996 6:31pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM41-1W2 ST 8-28-96

PERKIN-ELMER DSC7



Date: Jul 22, 1996 6:59pm
Scanning Rate: 20.0 C/min
Sample : 0.000 mg Path: C:\PE\
File 141-W2E ST 8-28-96

PER N-ELMER DSC7



Date: Jul 22, 1996 7:27pm
Scanning Rate: 20.0 C/min
Sampl- Wt: 0.000 mg Path: C:\PE\
Fi. 411W2F ST 8-28-96

PE' 'IN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8-22-96 SAMPLE NO# SS 1W2A

TESTER LIGON/COOK / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. X		1.	/	1.	1. Neg
2.	X	2.	/	2.	2.
3. X		3.	/	3.	3.
4.	X	4.	/	4.	4.
5. X		5.	/	5.	5.
6. X		6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/22/96 SAMPLE NO# SS 1W2B

TESTER L/Gon/cook/S. Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1.
2.	X	2.	/	2.	2.
3. X		3.	/	3.	3.
4. X		4.	/	4.	4.
5. X		5.	/	5.	5.
6.	X	6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/22/96 SAMPLE NO# SS 1W2C

TESTER LI Gow / cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. X		1.	/	1.	1. Neg
2. X		2.	/	2.	2.
3.	X	3.	/	3.	3.
4.	X	4.	/	4.	4.
5.	X	5.	/	5.	5.
6. X		6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/22/96 SAMPLE NO# SS 1W2D

TESTER LIGON / COOK / Schmit

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	/	1.	Neg
2. X		2.	/	2.	
3. X		3.	/	3.	
4. X		4.	/	4.	
5.	X	5.	/	5.	
6.	X	6.	/	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/22/96 SAMPLE NO# SS 1W2E

TESTER Wood / Cook / D Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. X		1.	/	1.	1. Neg
2. X		2.	/	2.	2.
3. X		3.	/	3.	3.
4.	X	4.	/	4.	4.
5. X		5.	/	5.	5.
6.	X	6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41CW DATE 8/22/96 SAMPLE NO# SS 1W2F

TESTER Algow/Cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1. X		1.	/	1.	1. Neg
2. X		2.	/	2.	2.
3. X		3.	/	3.	3.
4.	X	4.	/	4.	4.
5.	X	5.	/	5.	5.
6. X		6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-26-96	SWM4 4IW							
	IE	N	N	N	N	N	N	N
	IW	N	N	N	N	N	N	N
	IS	N	N	N	N	N	N	N
	IN	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

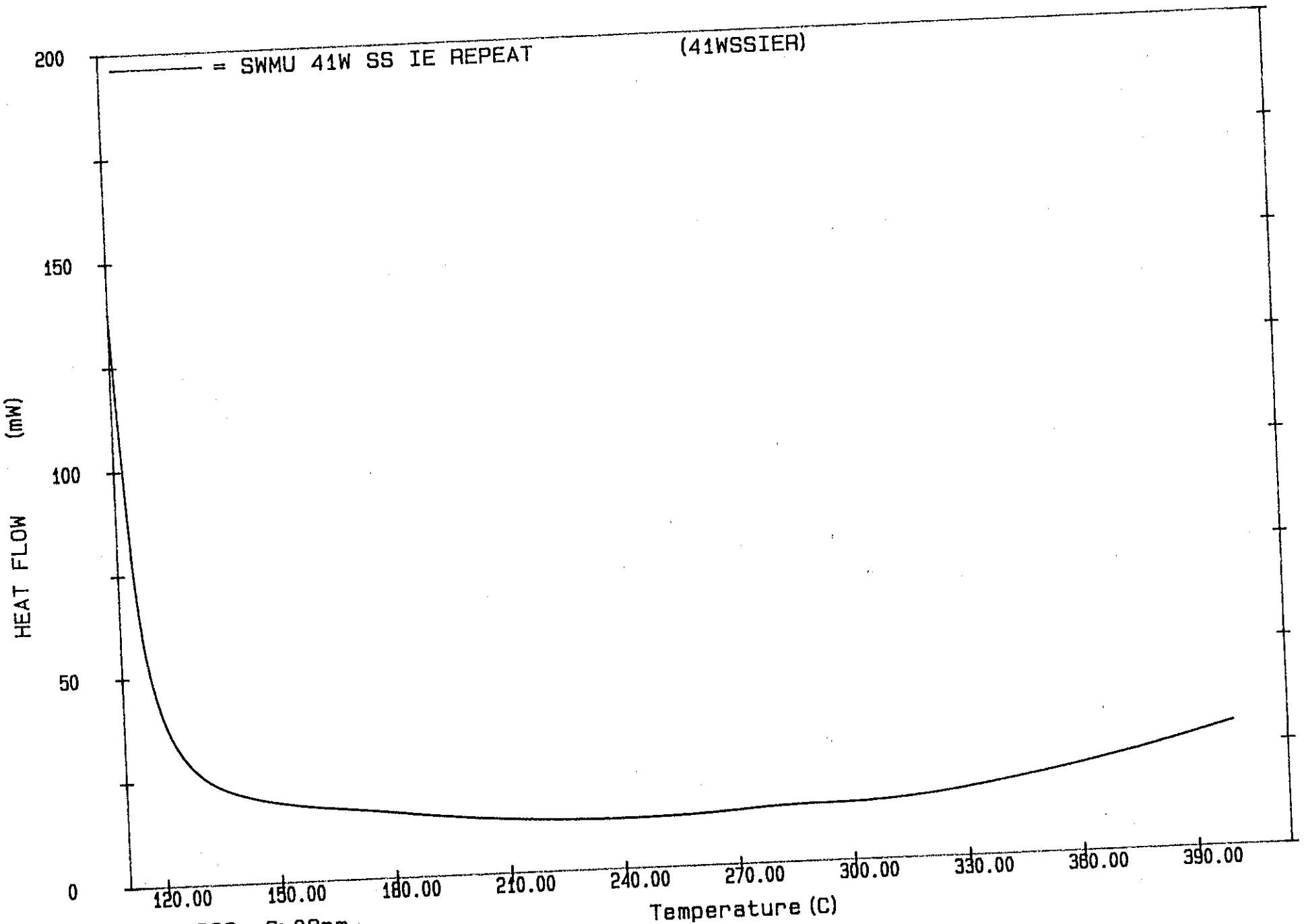
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

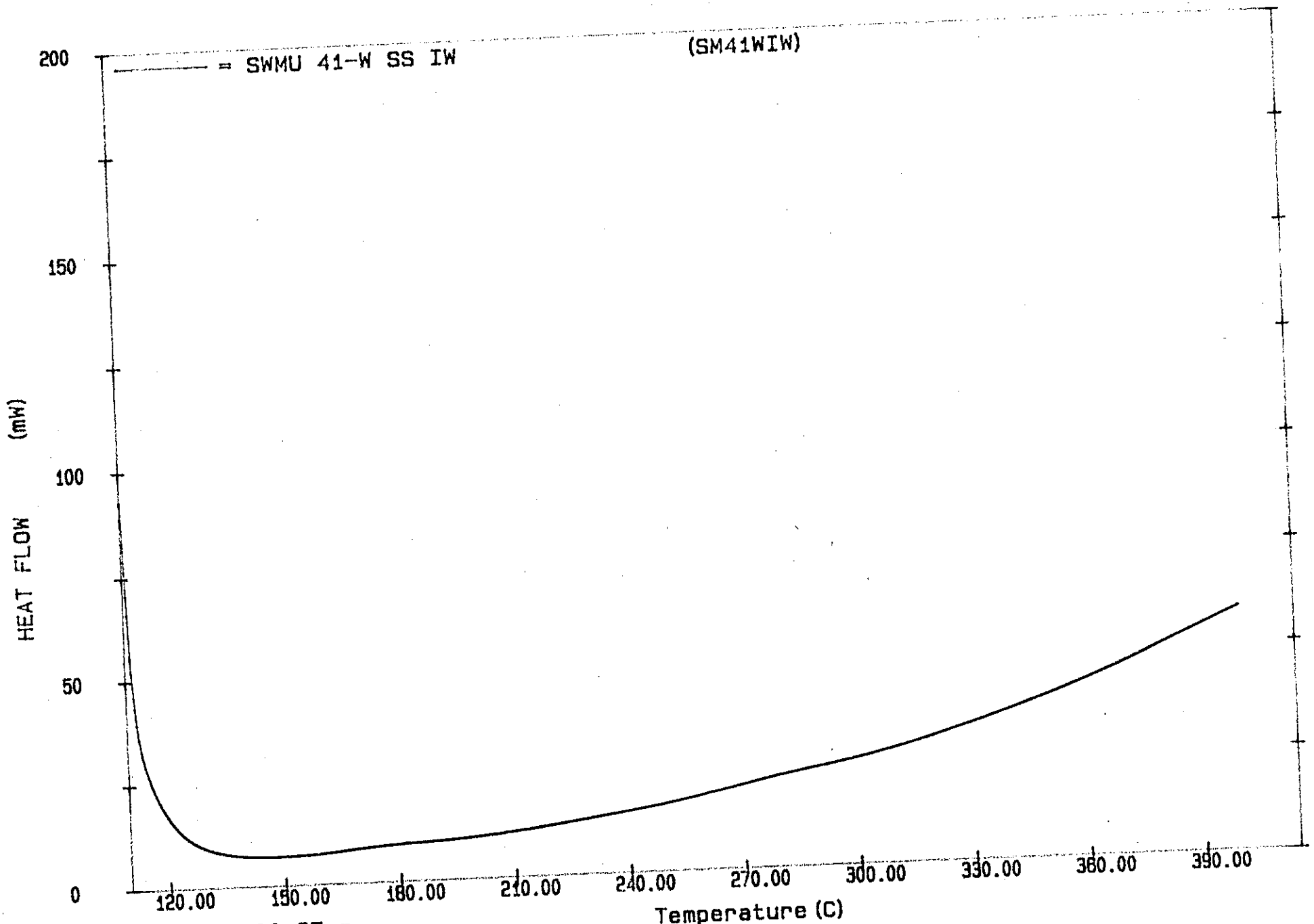
Y= YES

N= N0



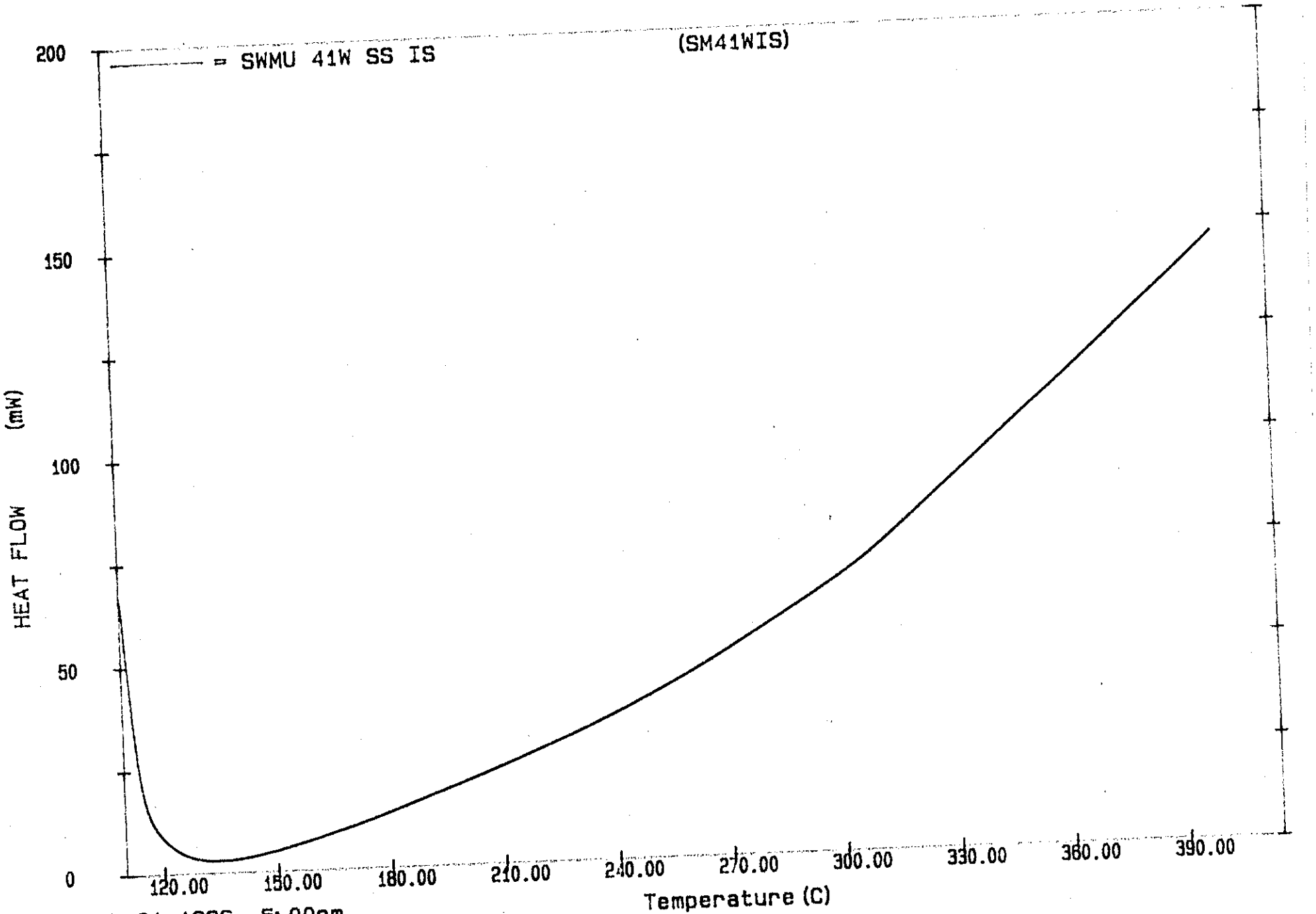
Date: Jul 23, 1996 6:08pm
Scanning Rate: 20.0 C/min
Sampl lt: 0.000 mg Path: C:\PE\
Fil 41WSSIER ST 8-29-96

PEI IN-ELMER DSC7



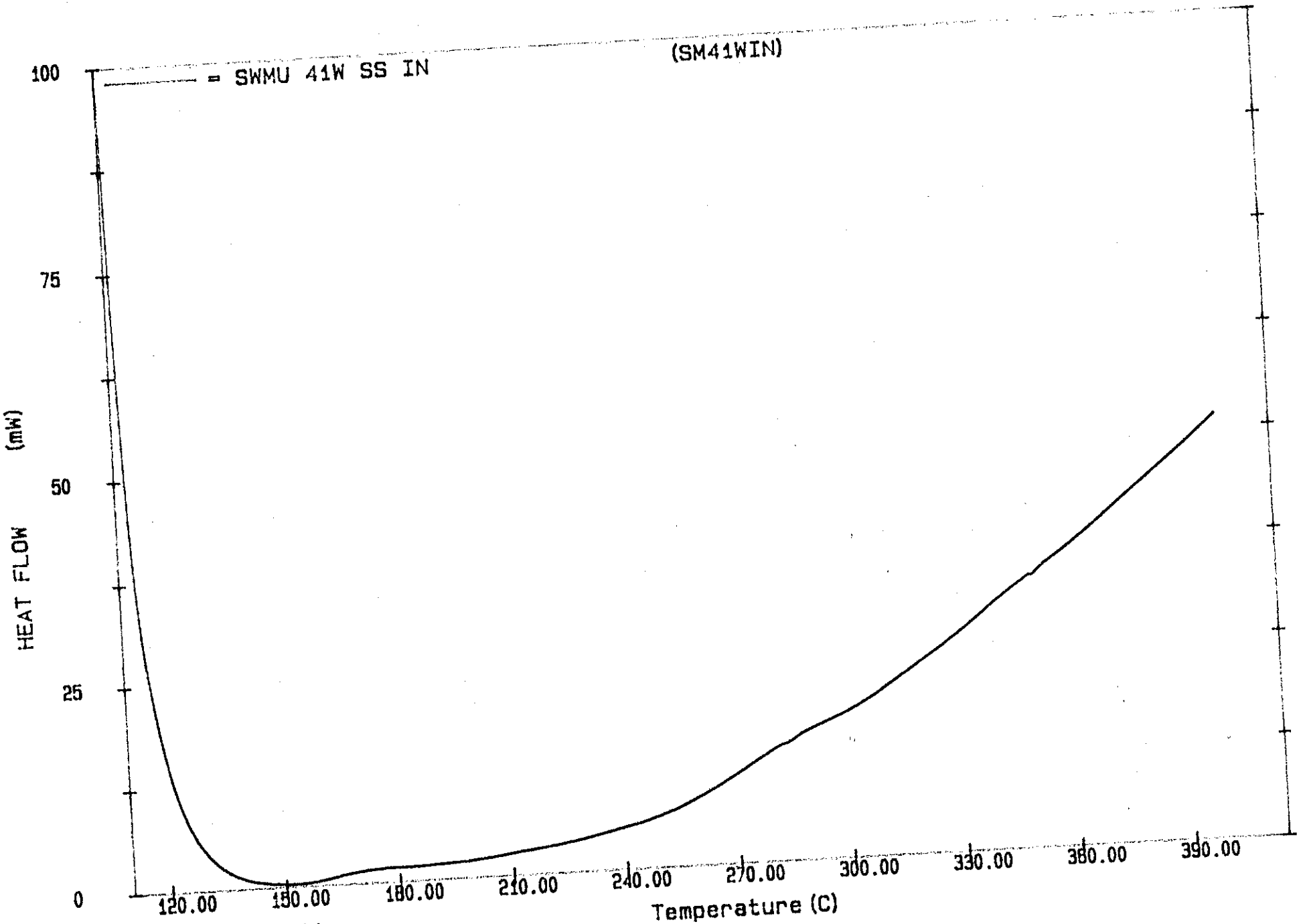
Date: Jul 21, 1996 00: 35am
Scanning Rate: 20.0 C/min
Sampl[illegible] Wt: 0.000 mg Path: UXB\
Fi[illegible] SM41WIW ST 8-26-96

PE[illegible]IN-ELMER DSC7



Date: Jul 21, 1996 5:00pm
Scanning Rate: 20.0 C/min
Sampl[illegible]t: 0.000 mg Path: UXB\
Fil[illegible] SM41WIS ST 8-27-96

PER[illegible]IN-ELMER DSC7



Date: Jul 21, 1996 4: 11pm
Scanning Rate: 20.0 C/min
Sample 0.000 mg Path: UXB\
File ...41WIN ST 8-27-96

PERK V-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 46W DATE 8-26-96 SAMPLE NO# SS IE

TESTER Thrift Cook (S short

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes / No	Yes / No			
1.	/	1.	/	1.	1.
2.	/	2.	/	2.	2.
3.	/	3.	/	3.	3.
4.	/	4.	/	4.	4.
5.	/	5.	/	5.	5.
6.	/	6.	/	6.	6.

CALORIMETRIC TEST: Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41W DATE 8-26-96 SAMPLE NO# SS 1W

TESTER Thrift Cook / Schmit

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 4/W DATE 8-26-96 SAMPLE NO# SS 15

TESTER Thrift Cook / Schmidt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓		✓	1.	1.	N/S
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41W DATE 8-26-96 SAMPLE NO# SS 1W

TESTER Thrift Cook / Hunt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
Yes	No	Yes	No		
1.	✓	1.	✓	1.	1.
2.	✓	2.	/	2.	2.
3.	✓	3.	/	3.	3.
4.	✓	4.	/	4.	4.
5.	✓	5.	/	5.	5.
6.	/	6.	/	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-30-96	SWM4410							
	3-1	N	N	N	N	N	N	N
	3-2	N	N	N	N	N	N	N
	3-3	N	N	N	N	N	N	N
	3-4	N	N	N	N	N	N	N
	3-5	N	N	N	N	N	N	N
	3-6	N	N	N	N	N	N	N
	3-7	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

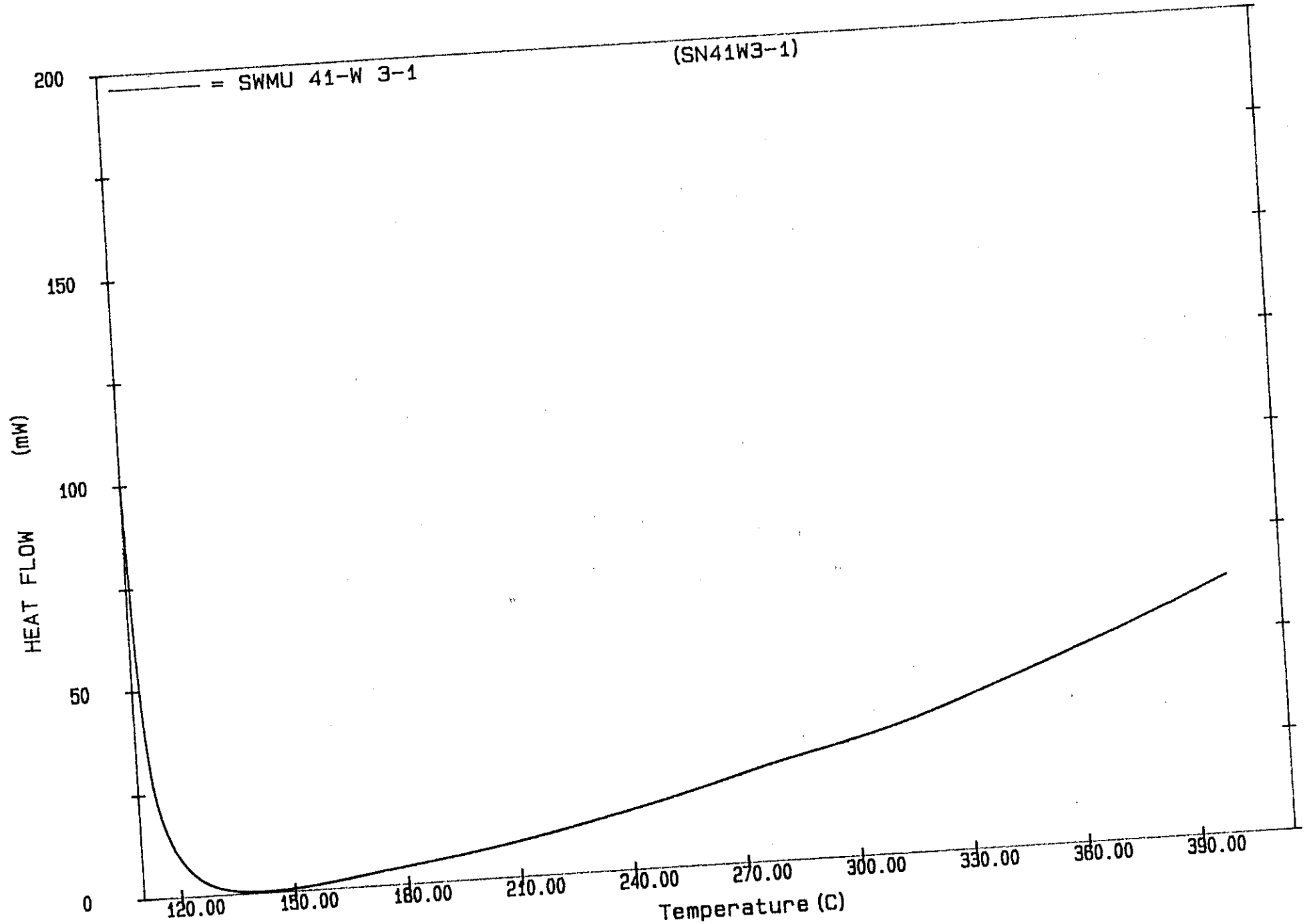
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

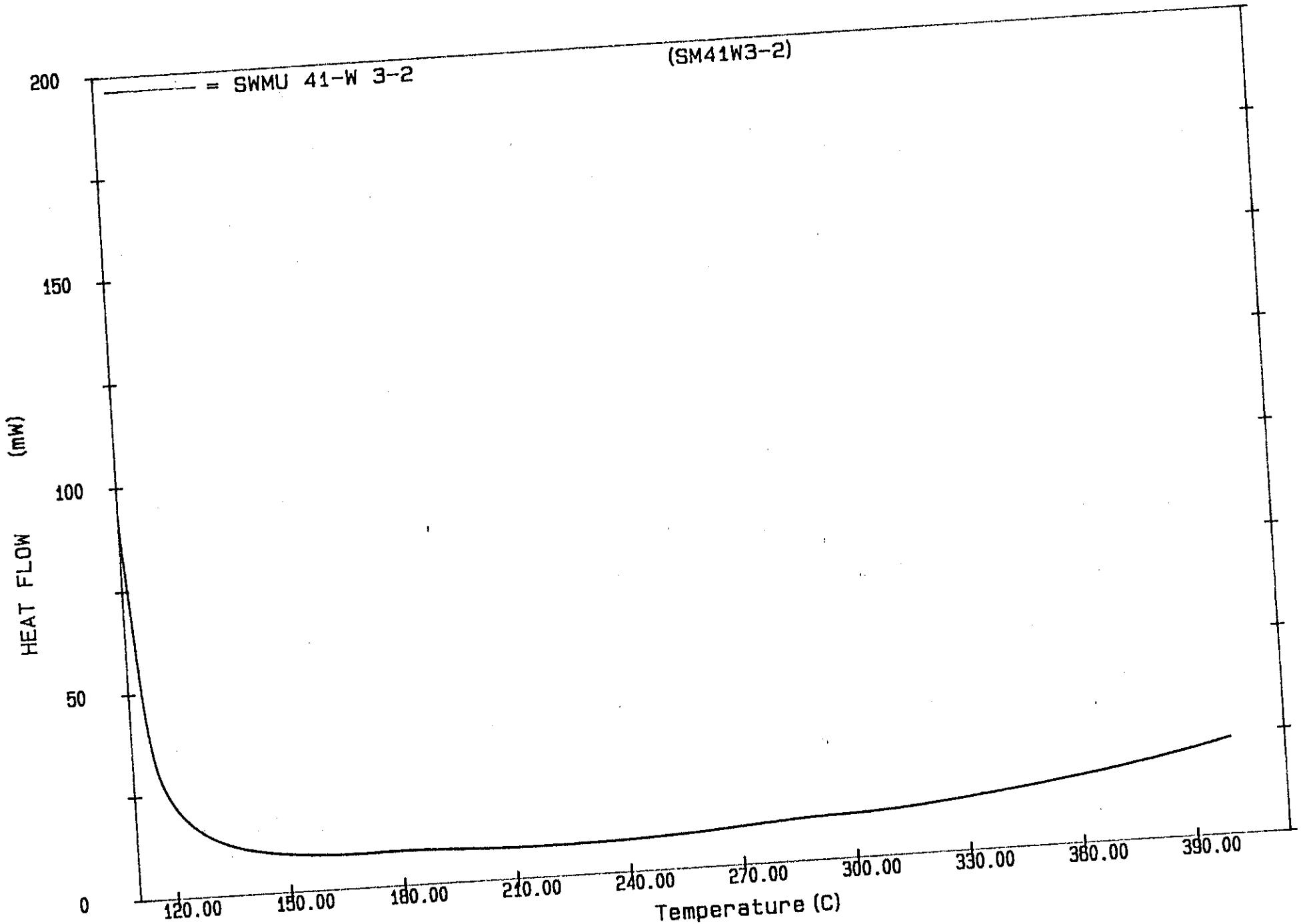
Y= YES

N= N0



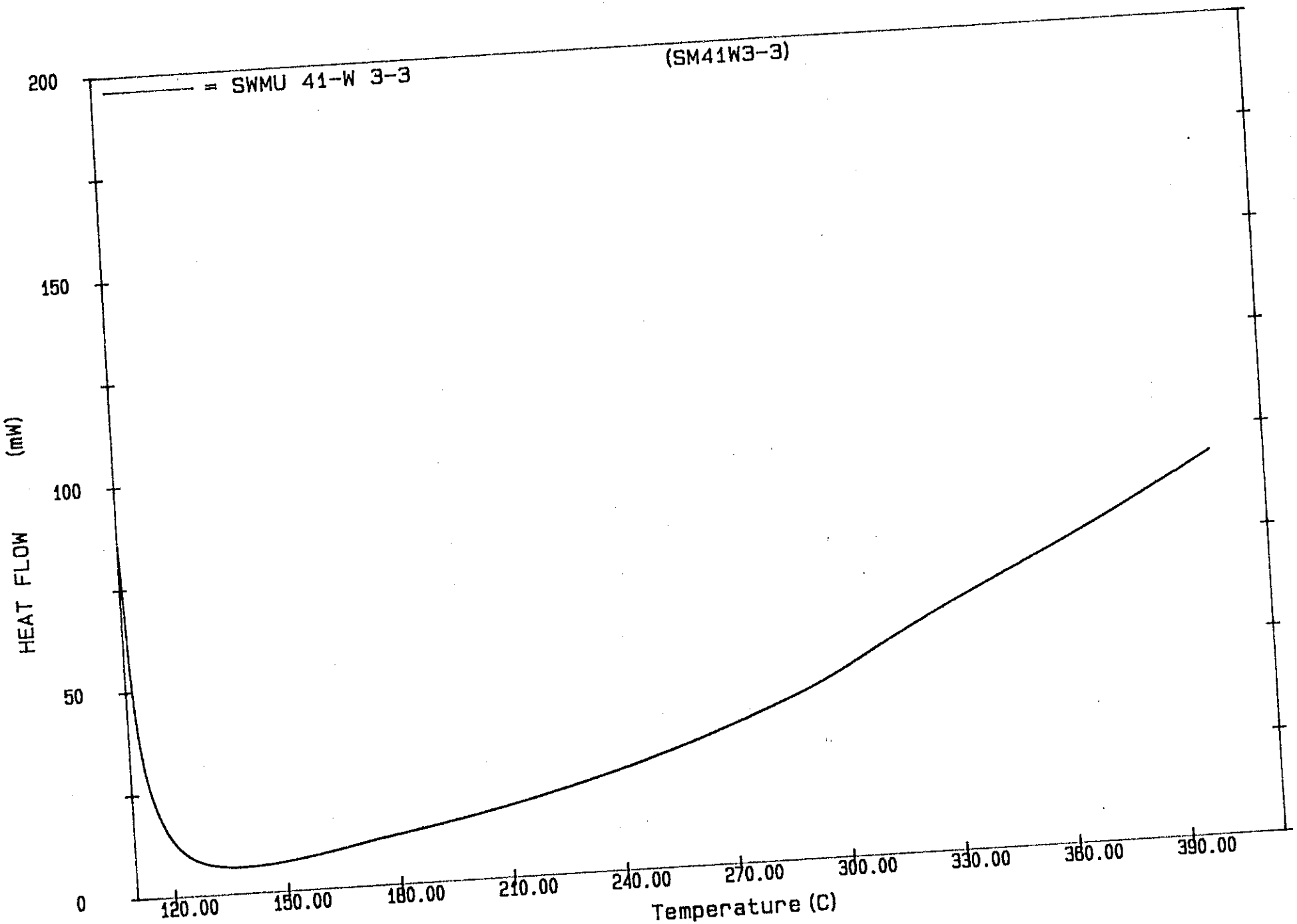
Date: Jul 24, 1996 4:25pm
Scanning Rate: 20.0 C/min
Sam : Wt: 0.000 mg Path: C:\PE\
F 1: SN41W3-1 ST 8-30-96

P KIN-ELMER DSC7



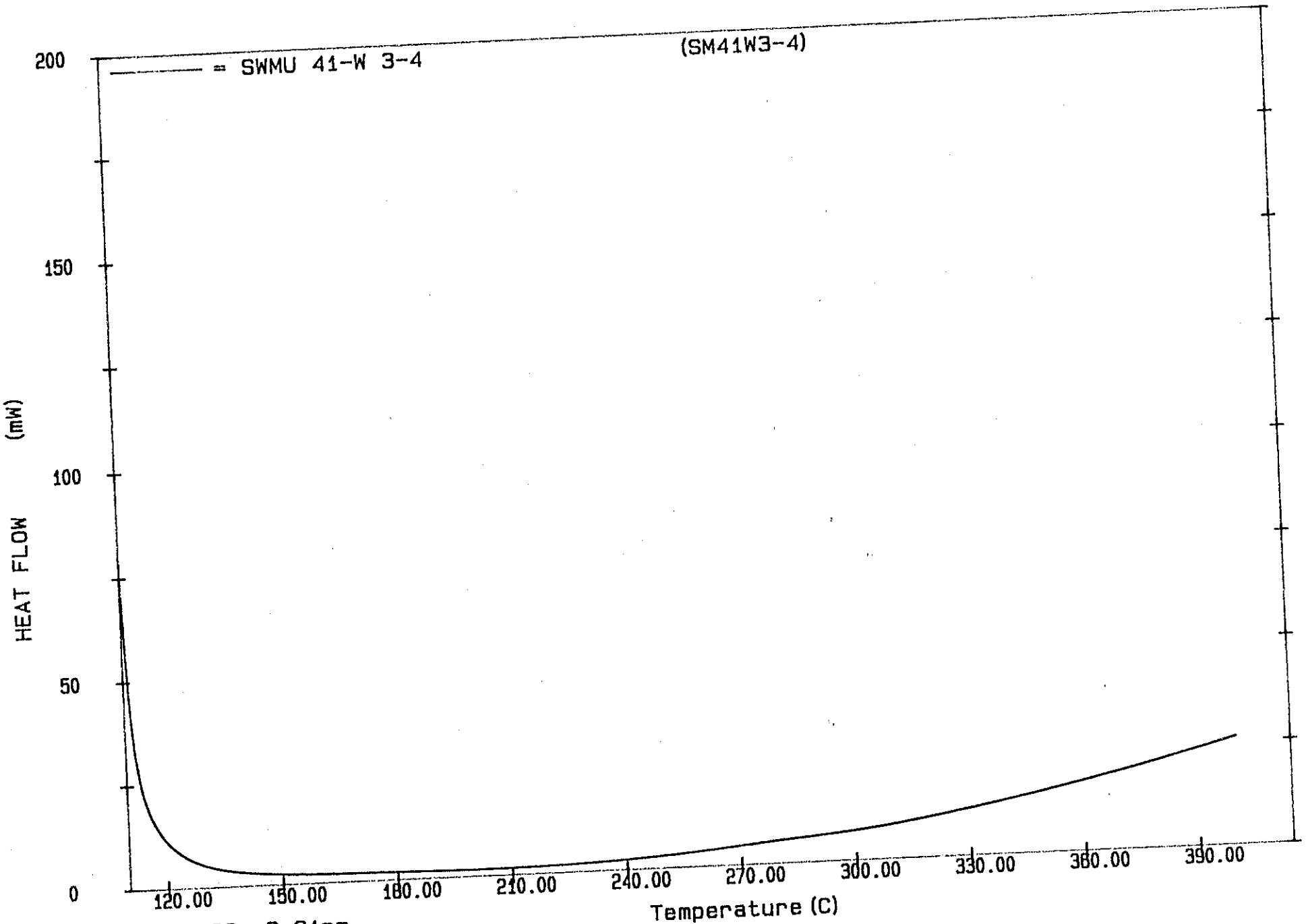
Date: Jul 24, 1996 4: 46pm
Scanning Rate: 20.0 C/min
Sampl Wt: 0.000 mg Path: C: \PE\
Fil SM41W3-2 ST 8-30-96

PERKIN-ELMER DSC7



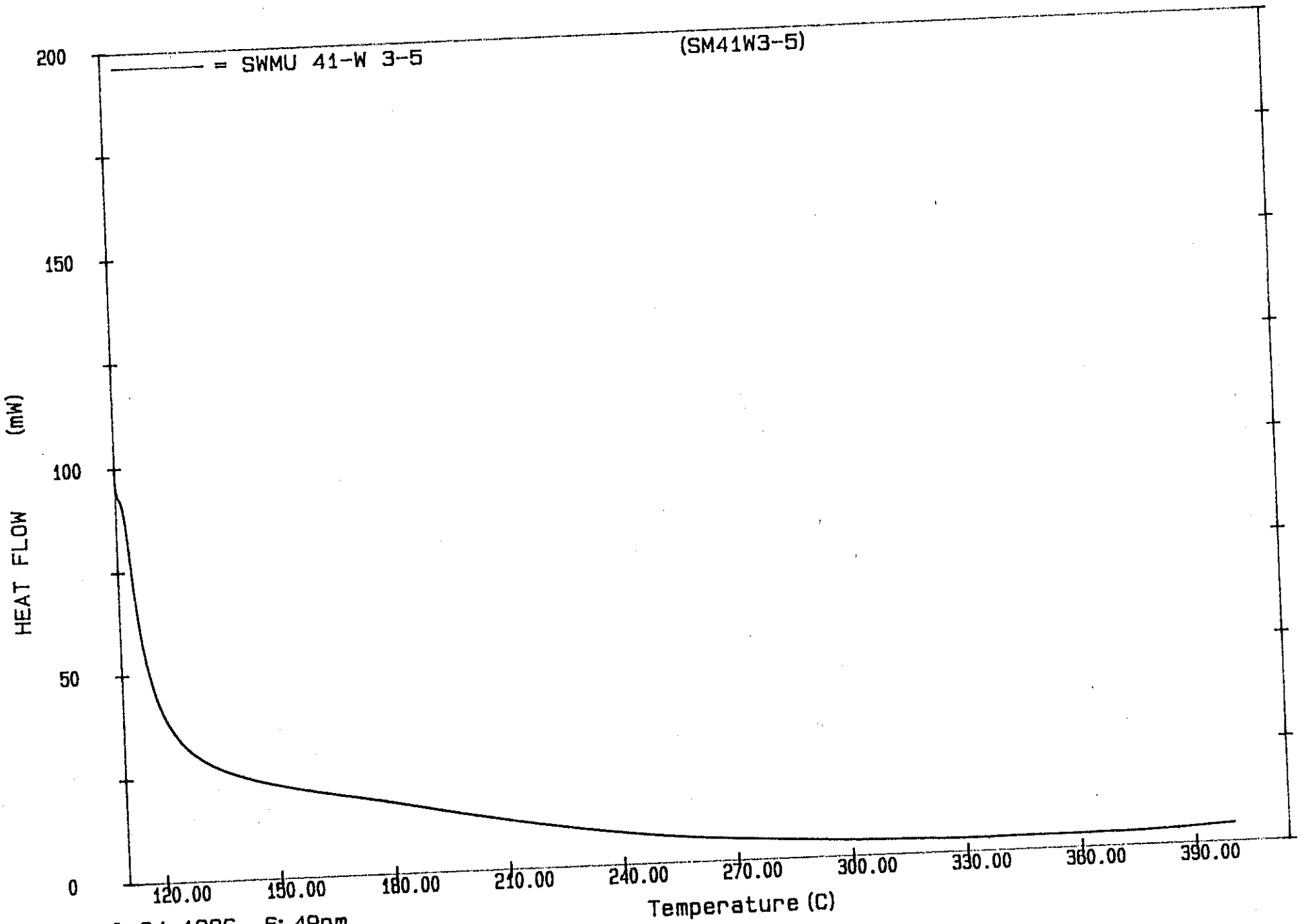
Date: Jul 24, 1996 5:58pm
Scanning Rate: 20.0 C/min
Sampl Wt: 0.000 mg Path: C:\PE\
File: SM41W3-3 ST 8-30-96

PEF IN-ELMER DSC7



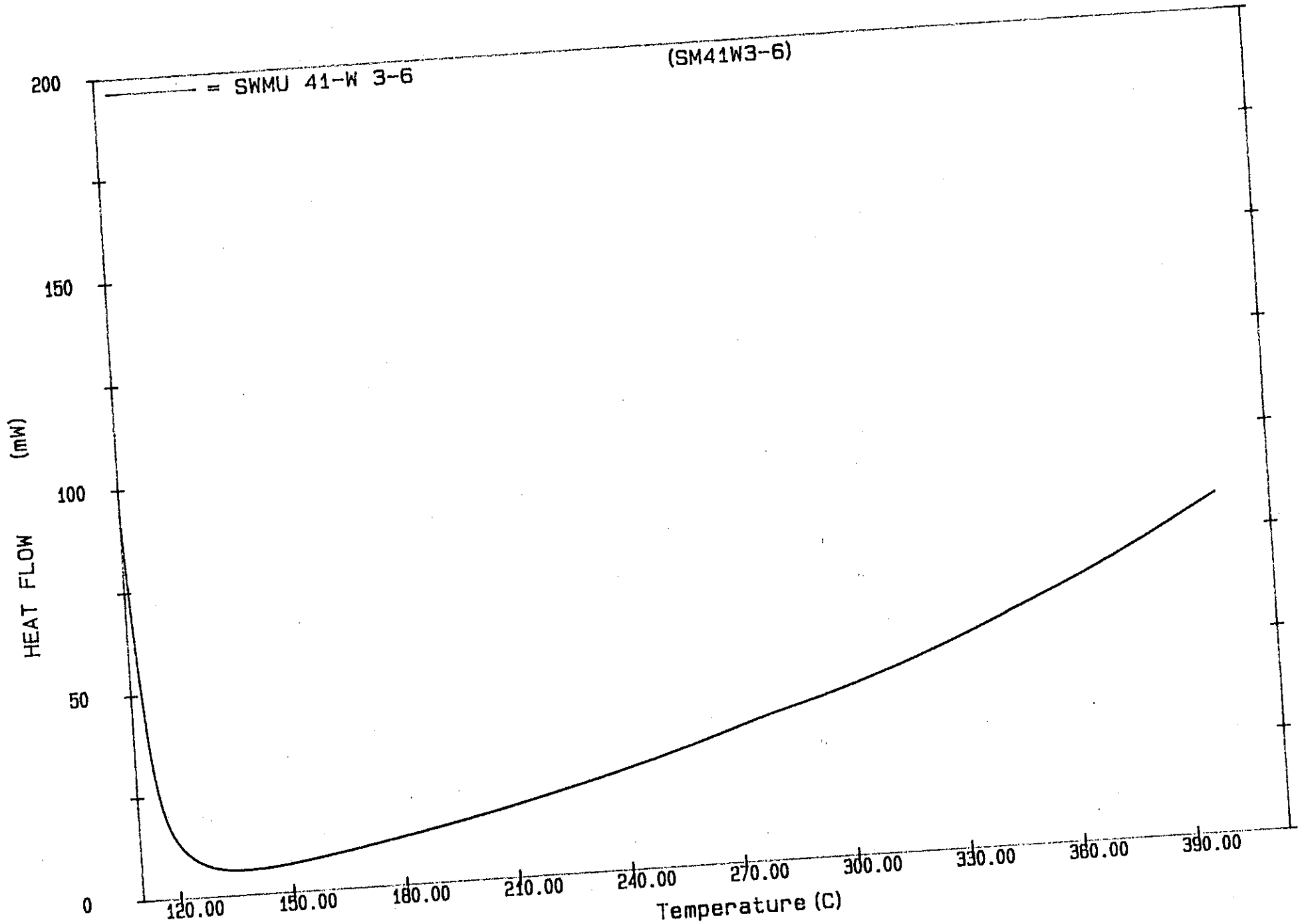
Date: Jul 24, 1996 6:21pm
Scanning Rate: 20.0 C/min
Samp Wt: 0.000 mg Path: C:\PE\
File SM41W3-4 ST 8-30-96

PE PERKIN-ELMER DSC7



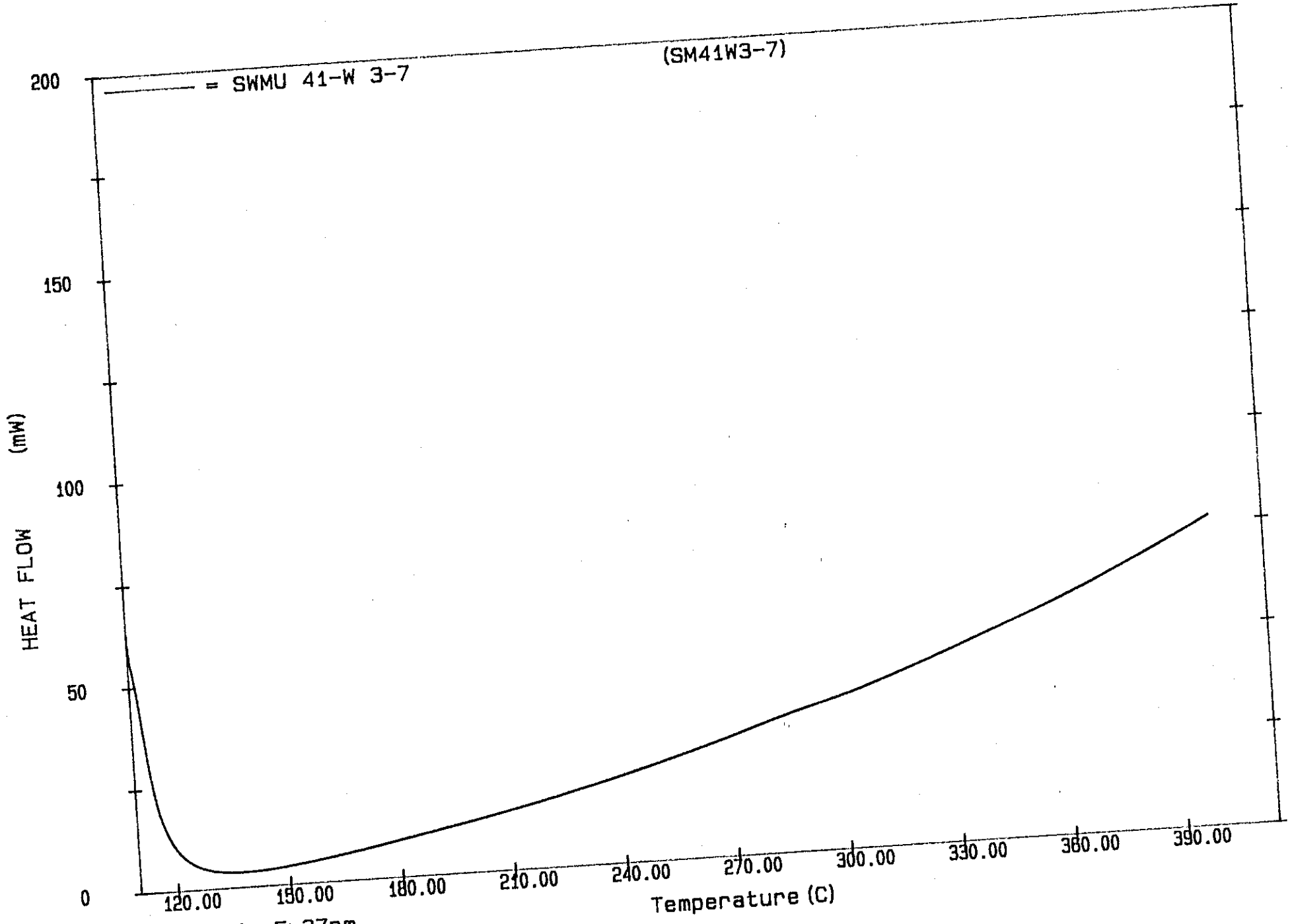
Date: Jul 24, 1996 6: 49pm
Scanning Rate: 20.0 C/min
Sampl Wt: 0.000 mg Path: C: \PE\
File: SM41W3-5 ST 8-30-96

PE IN-ELMER DSC7



Date: Jul 24, 1996 5: 10pm
Scanning Rate: 20.0 C/min
Sampl Wt: 0.000 mg Path: C: \PE\
File: SM41W3-6 ST 8-30-96

PERKIN-ELMER DSC7



Date: Jul 24, 1996 5:37pm
Scanning Rate: 20.0 C/min
Sa e Wt: 0.000 mg Path: C:\PE\
F 1: SM41W3-7 ST 8-30-96

P KIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 08/30/96 SAMPLE NO# SS 3-1

TESTER THRIFT / WILHELMY [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	X	1.	Neg
2.	✓	2.	X	2.	
3.	✓	3.	X	3.	
4.	✓	4.	X	4.	
5.	✓	5.	X	5.	
6.	✓	6.	X	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.
Center Surface 3-1 thru 3-7
Taken After scraping bottom & Washing Rock

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41W DATE 8/30/96 SAMPLE NO# SS 3-2

TESTER Thrift / Wilhelm / Dehart

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41W DATE 8/30/96 SAMPLE NO# SS 3-3

TESTER Thrift / Wilhelmy / Schmidt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41W DATE 8/30/96 SAMPLE NO# SS 3-4

TESTER THRIFT / Wilhelmy [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41(a) DATE 8/30/96 SAMPLE NO# SS 3-5

TESTER Thrift/Wilhelm/Shupt

FRICTION TEST: IMPACT TEST: DEPTH CALORIMETRIC TEST:

	Reactive Yes	Reactive No			Results
1.		✓	1.	1.	Neg
2.		✓	2.	2.	
3.		✓	3.	3.	
4.		✓	4.	4.	
5.		✓	5.	5.	
6.		✓	6.	6.	

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/30/96 SAMPLE NO# SS 3-6

TESTER THRIFT / Wilhelm / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.
Deep Center

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41 W DATE 8/30/96 SAMPLE NO# SS 3-7

TESTER Thrift/ Wilhelmy/ Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.
Intermediate depth

S--SURFACE
SS--SUBSURFACE

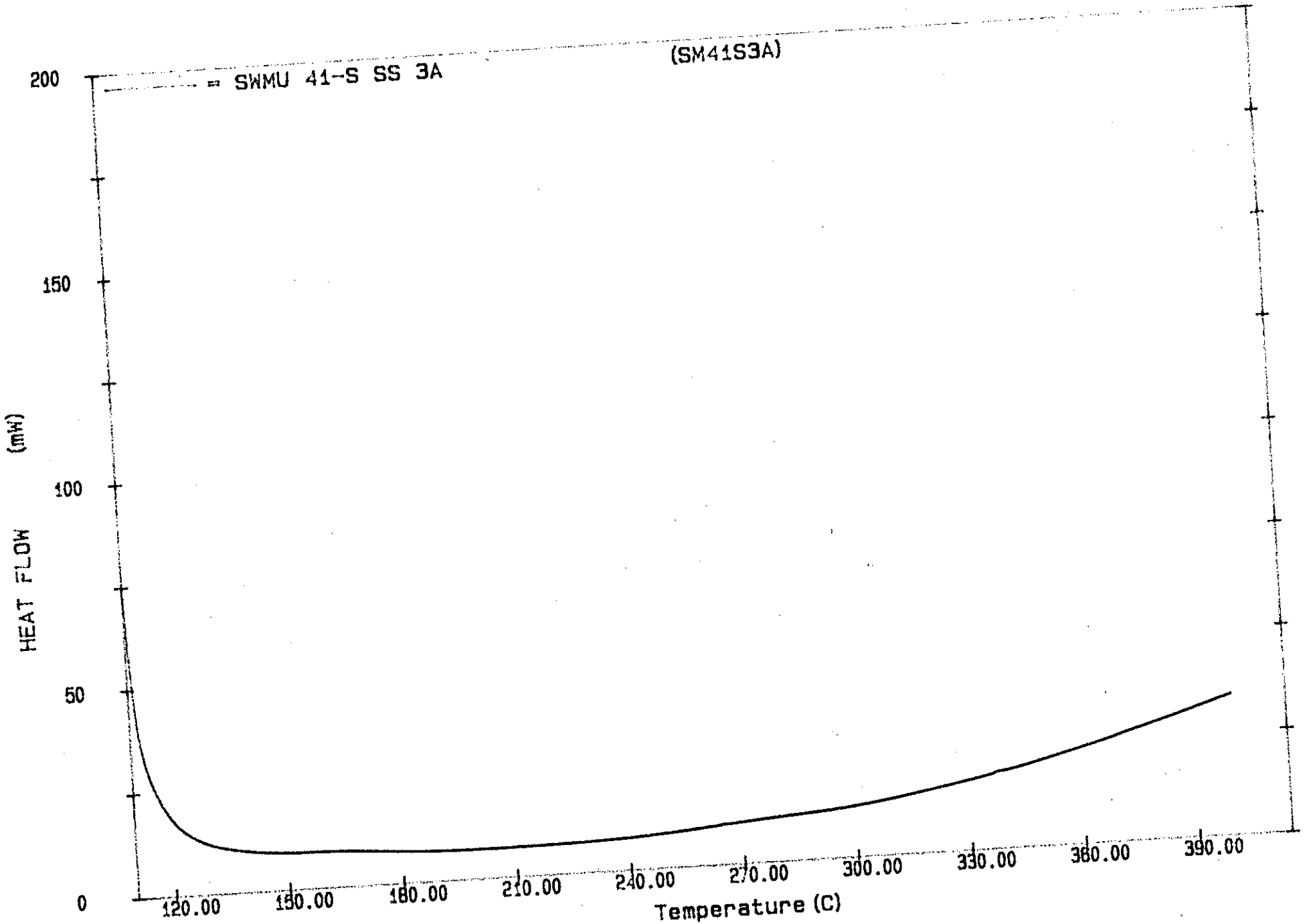
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF	DDNP 180C	TET 280C
8-26-96	Slurry 415							
	3A	N	N	N	N	N	N	N
	3B	N	N	N	N	N	N	N
	3C	N	N	N	N	N	N	N
	3D	N	N	N	N	N	N	N
	3E	N	N	N	N	N	N	N
	3F	N	N	N	N	N	N	N
	3G	N	N	N	N	N	N	N

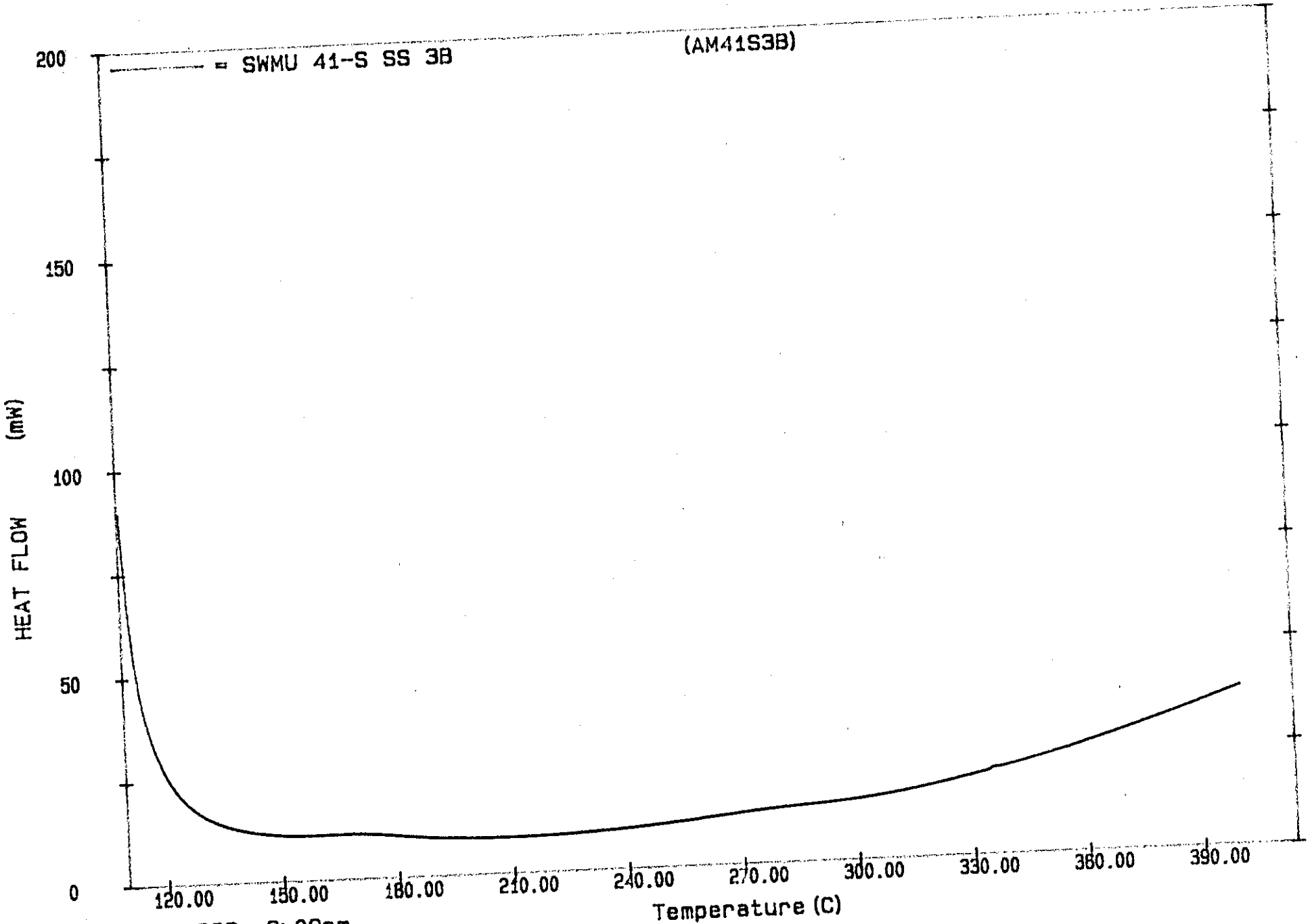
LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



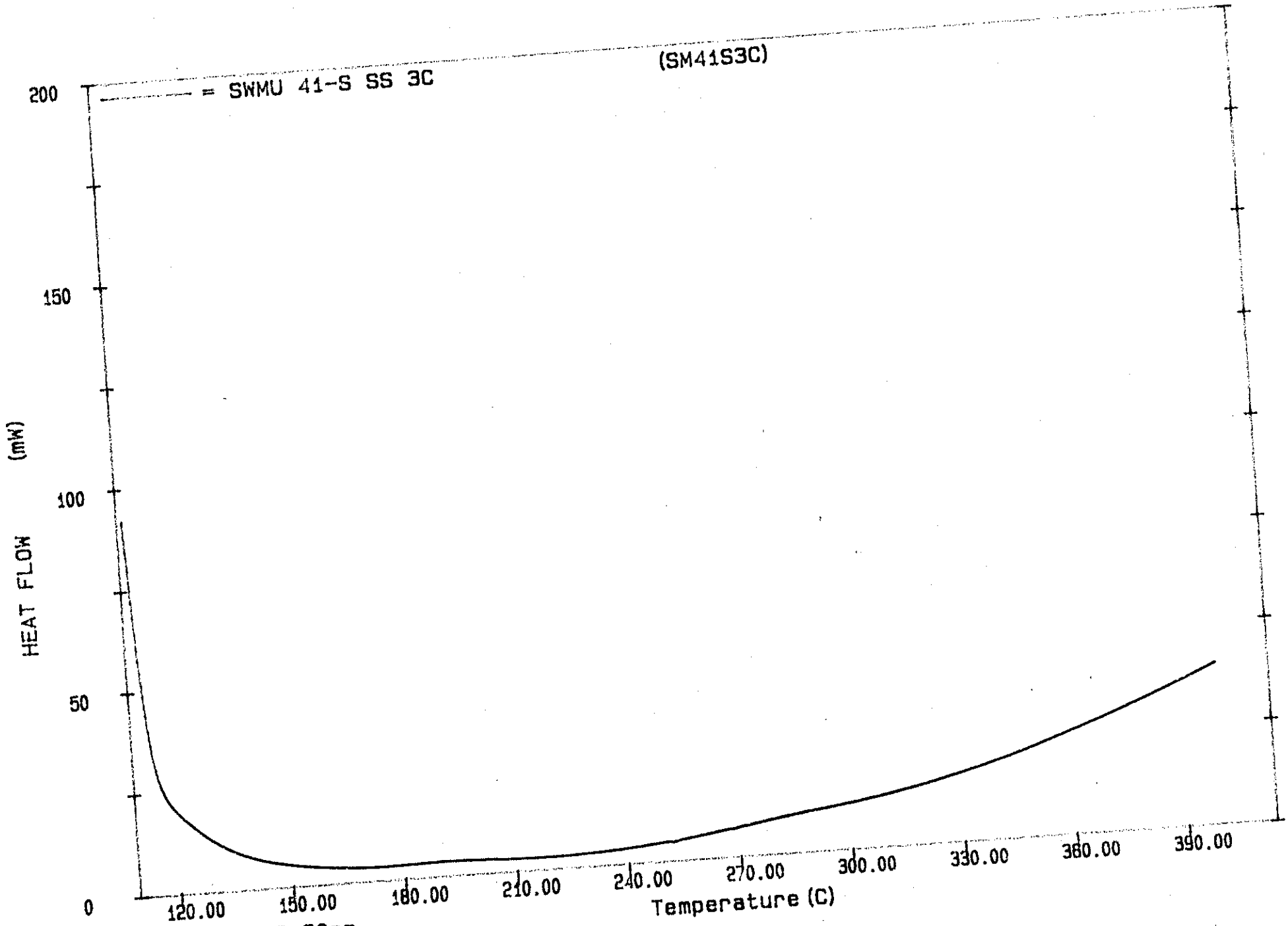
Date: Jul 21, 1996 7:28pm
Scanning Rate: 20.0 C/min
Sampl[illegible]t: 0.000 mg Path: C:\PE\
File [illegible]M41S3A ST 8-27-96

PER[illegible]N-ELMER DSC7



Date: Jul 21, 1996 8:09pm
Scanning Rate: 20.0 C/min
Sample [illegible]: 0.000 mg Path: C:\PE\
File 141S3B ST 8-27-96

PERKIN-ELMER DSC7



Date: Jul 21, 1996 8:30pm
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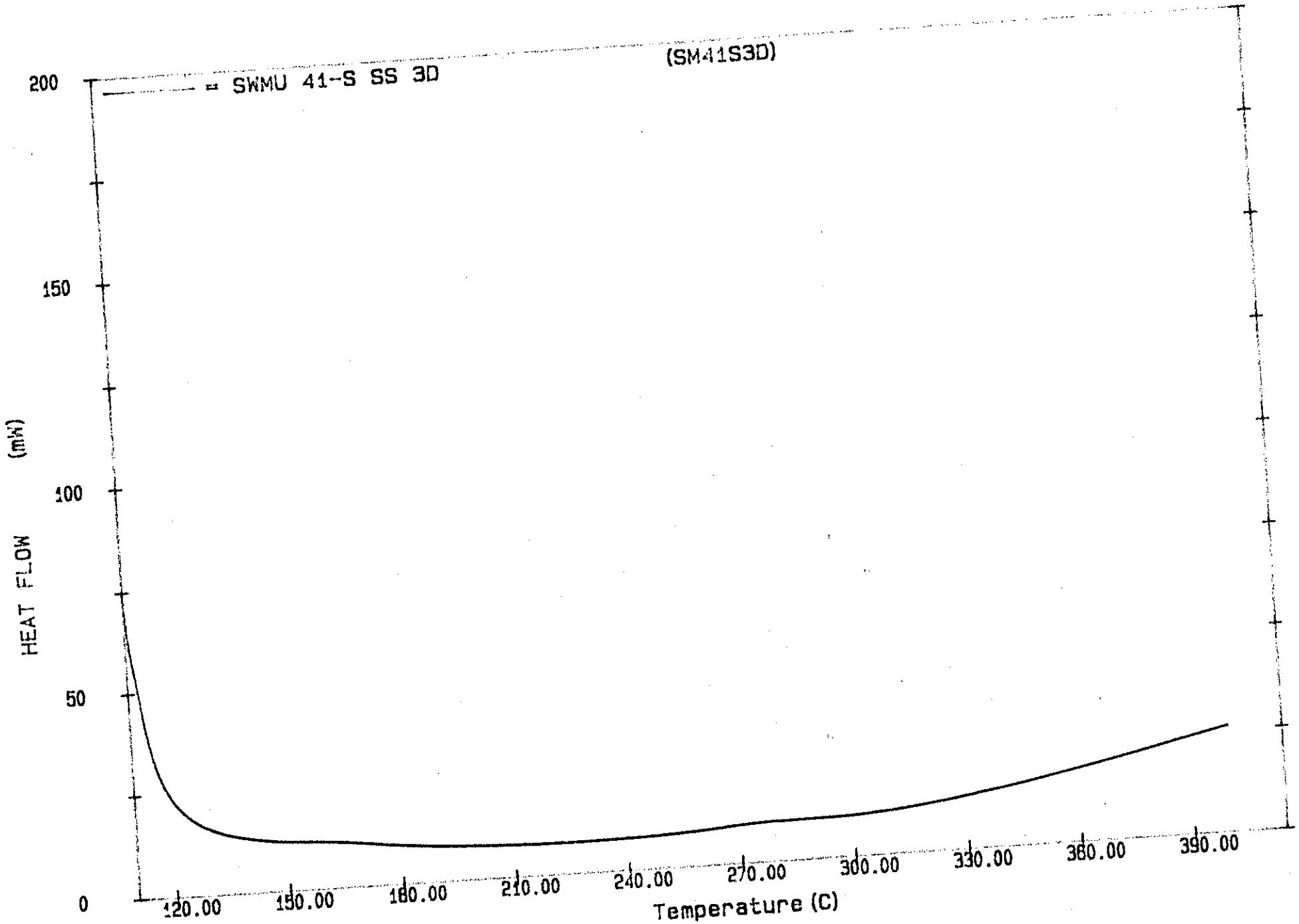
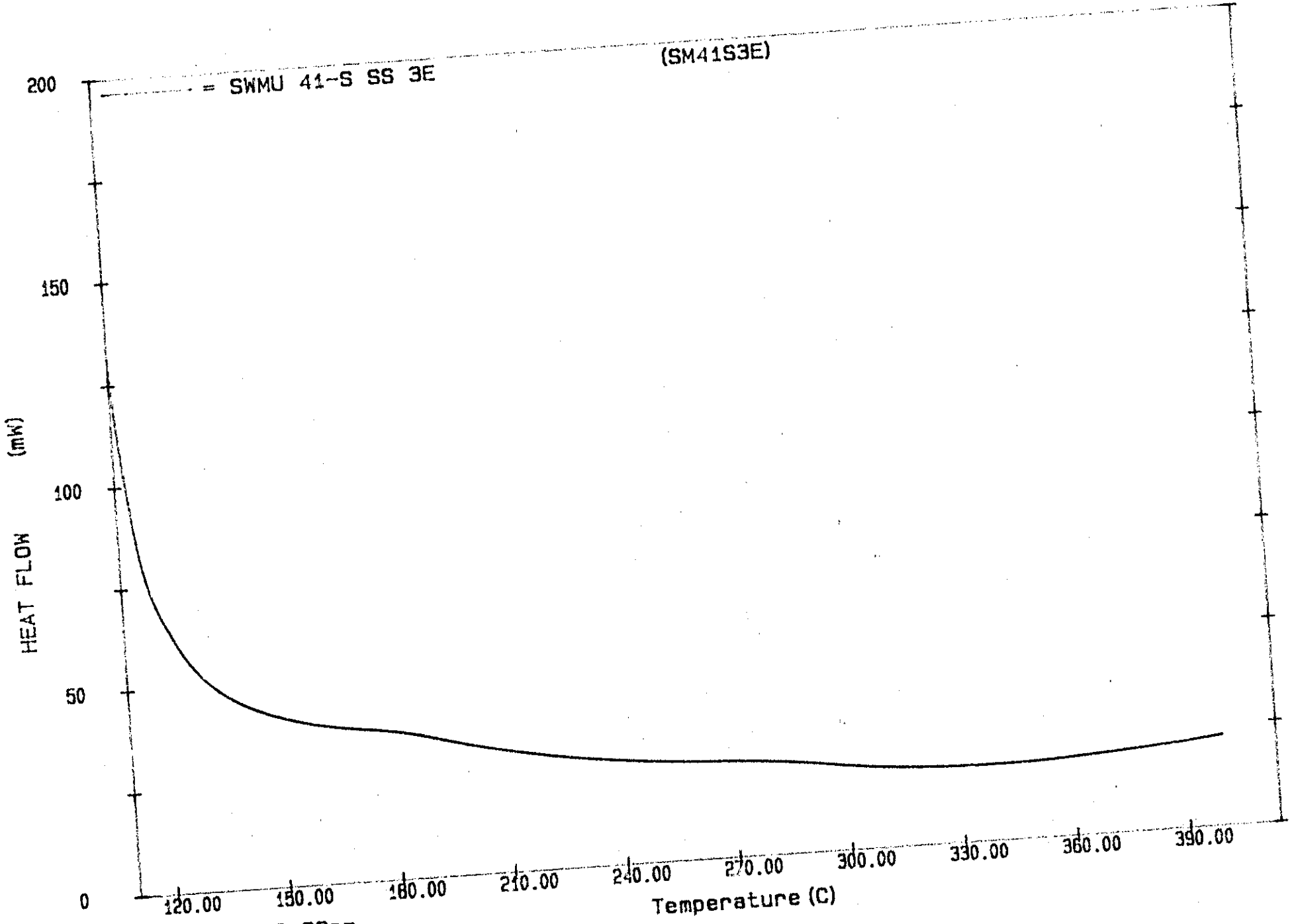
Sample Weight: 0.000 mg Path: C:\PE\
File: SM41S3C ST 8-27-96

PERKIN-ELMER DSC7



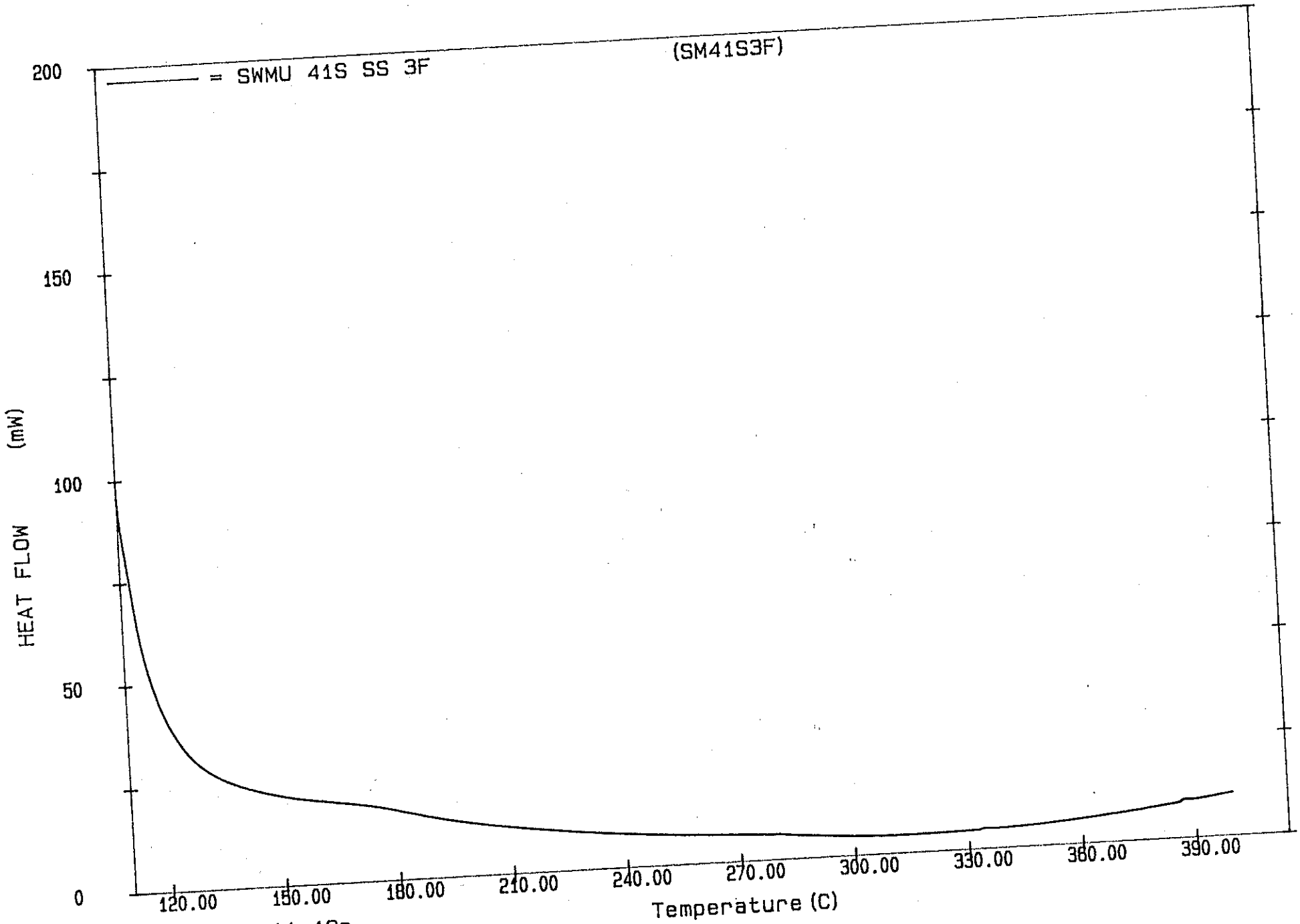
Date: Jul 21, 1996 8:52pm
Scanning Rate: 20.0 C/min
Sampl[illegible]t: 0.000 mg Path: C:\PE\
Fil[illegible] SM41S3D ST 8-27-96

PE[illegible]N-ELMER DSC7



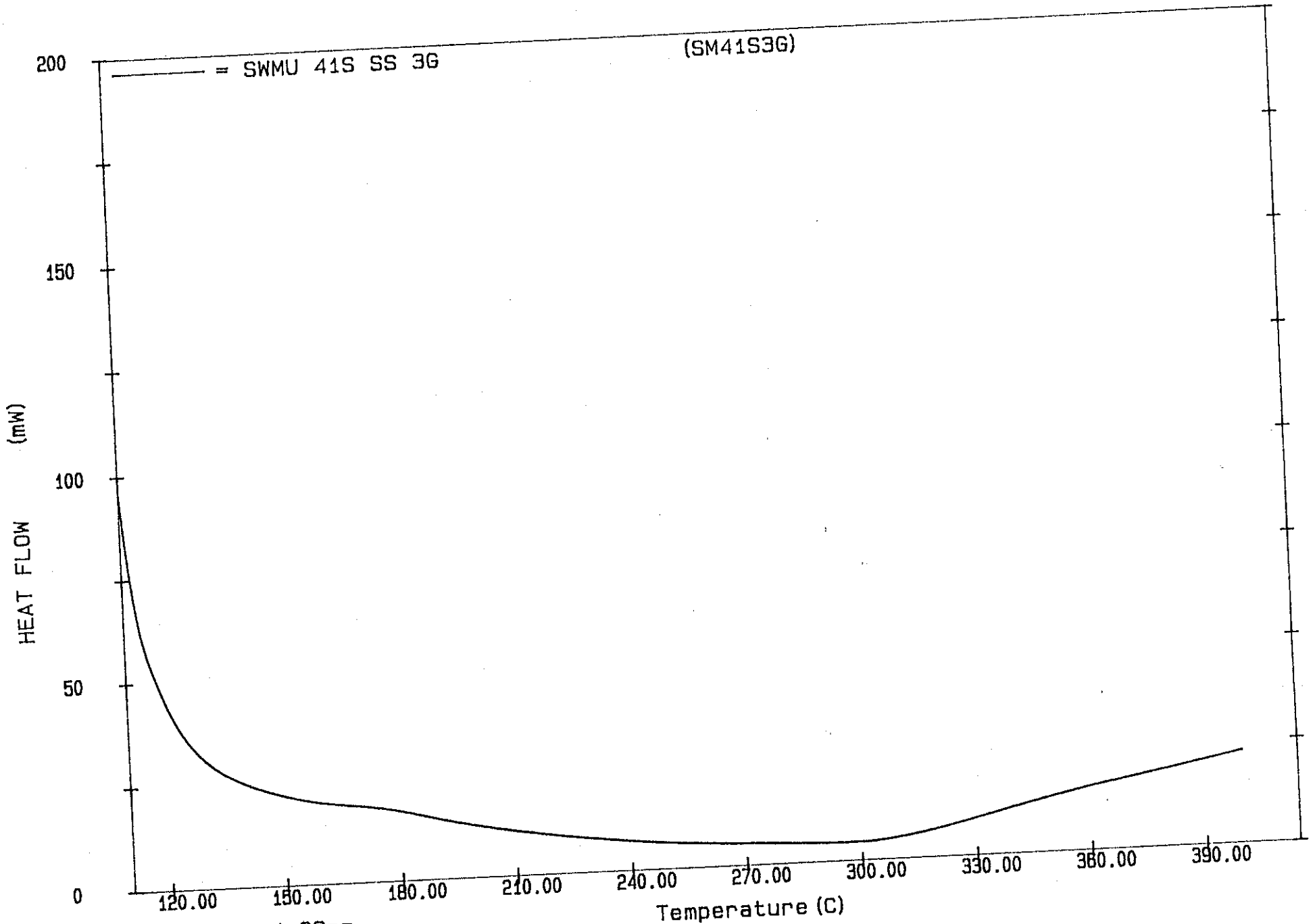
Date: Jul 21, 1996 9:38pm
Scanning Rate: 20.0 C/min
Sample : 0.000 mg Path: C:\PE\
File : SM41S3E ST 8-27-96

PERKIN-ELMER DSC7



Date: Jul 21, 1996 11: 19p
Scanning Rate: 20.0 C/min
Samp[illegible] Wt: 0.000 mg Path: C: \PE\
Fil[illegible] SM41S3F ST 8-27-96

PE[illegible]IN-ELMER DSC7



Date: Jul 22, 1996 4:23pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM41S3G ST 8-28-96

PE IN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 8-26-96 SAMPLE NO# SS 3A

TESTER Thrift Cook / Student

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.	✓	
3.		✓
4.		✓
5.		✓
6.	✓	

IMPACT TEST: DEPTH

	Reactive Yes	No		
1.		✓	1.	1.
2.		✓	2.	2.
3.		✓	3.	3.
4.		✓	4.	4.
5.		✓	5.	5.
6.		✓	6.	6.

CALORIMETRIC TEST:
Results



Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 8-26-96 SAMPLE NO# SS 3B

TESTER Thrift Cook / S Thrift

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
Yes	No	Yes	No		
1.		1.		1.	1.
2.	✓	2.	/	2.	2.
3.	/	3.	/	3.	3.
4.	/	4.	/	4.	4.
5.	/	5.	/	5.	5.
6.	/	6.	/	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 8-26-96 SAMPLE NO# SS 3C

TESTER Thrift Cook / 1st shift

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

CALORIMETRIC TEST:
Results

1. Neg
2.
3.
4.
5.
6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 8-26-96 SAMPLE NO# SS 3D

TESTER Thrift Cook / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 8-26-96 SAMPLE NO# SS 3E

TESTER Thrift Cook / Schmit

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
Yes	No	Yes	No		
1.	✓	1.	✓	1.	1.
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

CALORIMETRIC TEST:
Results

No

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41S DATE 8-26-96 SAMPLE NO# SS 3F

TESTER Thrift Cook / Schmidt

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 8-26-96 SAMPLE NO# SS 36

TESTER Thrift Cook / Hunt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	N/g
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

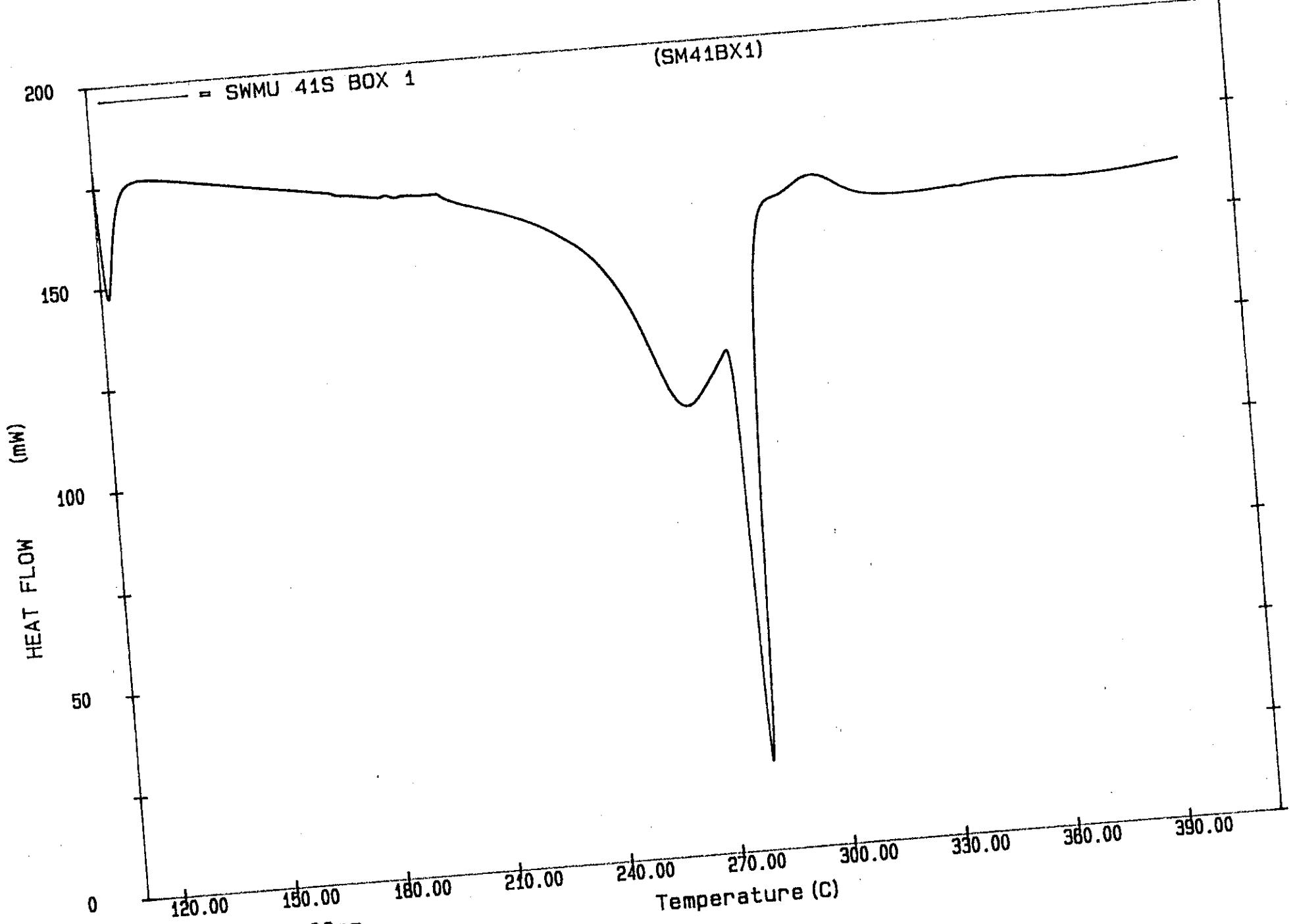
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-4-96	SWM415				Y	N	N	Y
	Box 1	N	N	N	Y	N	N	Y
	Box 2	Y	N	N				

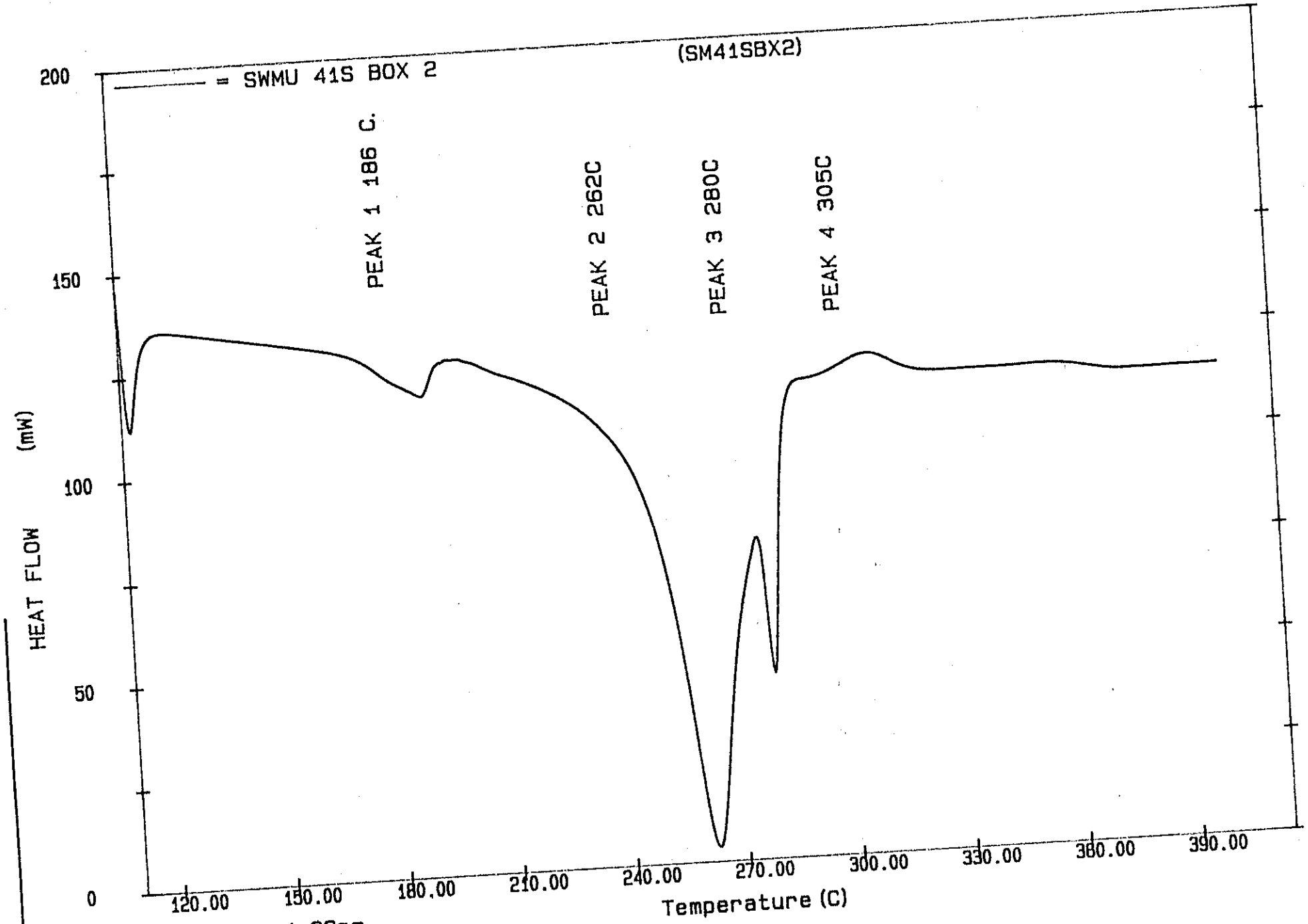
LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 29, 1996 4:00pm
Scanning Rate: 20.0 C/min
Sample : 0.000 mg Path: C:\PE\
File SM41BX1 ST 9-4-96

PER N-ELMER DSC7



Date: Jul 29, 1996 4:28pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File M41SBX2 ST 9-4-96

PERKIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/30/96 SAMPLE NO# S~~S~~ Box 1

TESTER WILHELMY / COOK / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1. ✓		1. X		1.	1.	Positive
2. ✓		2.		2.	2.	
3.		3.		3.	3.	
4.		4.		4.	4.	
5.		5.		5.	5.	
6.		6.		6.	6.	

Comments: Not enough sample to complete 6 passes on friction & impact Test.

4000 GRAM TEST WEIGHT ON THE FRICTION TEST

1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

Dried from liquid

S--SURFACE

SS--SUBSURFACE

- ONLY ONE TEST BECAUSE OF SAMPLE SIZE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/30/96 SAMPLE NO# ~~SS~~ Box 2

TESTER WILHELMY / COOK / S Wright

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	
1. /		1. X		1.	1.
2. /		2.	X	2.	2.
3. /		3. X		3.	3.
4. /		4. X		4.	4.
5. /		5. X		5.	5.
6. /		6. X		6.	6.

CALORIMETRIC TEST:
Results
Positive

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

Dried from solid

S--SURFACE
SS--SUBSURFACE

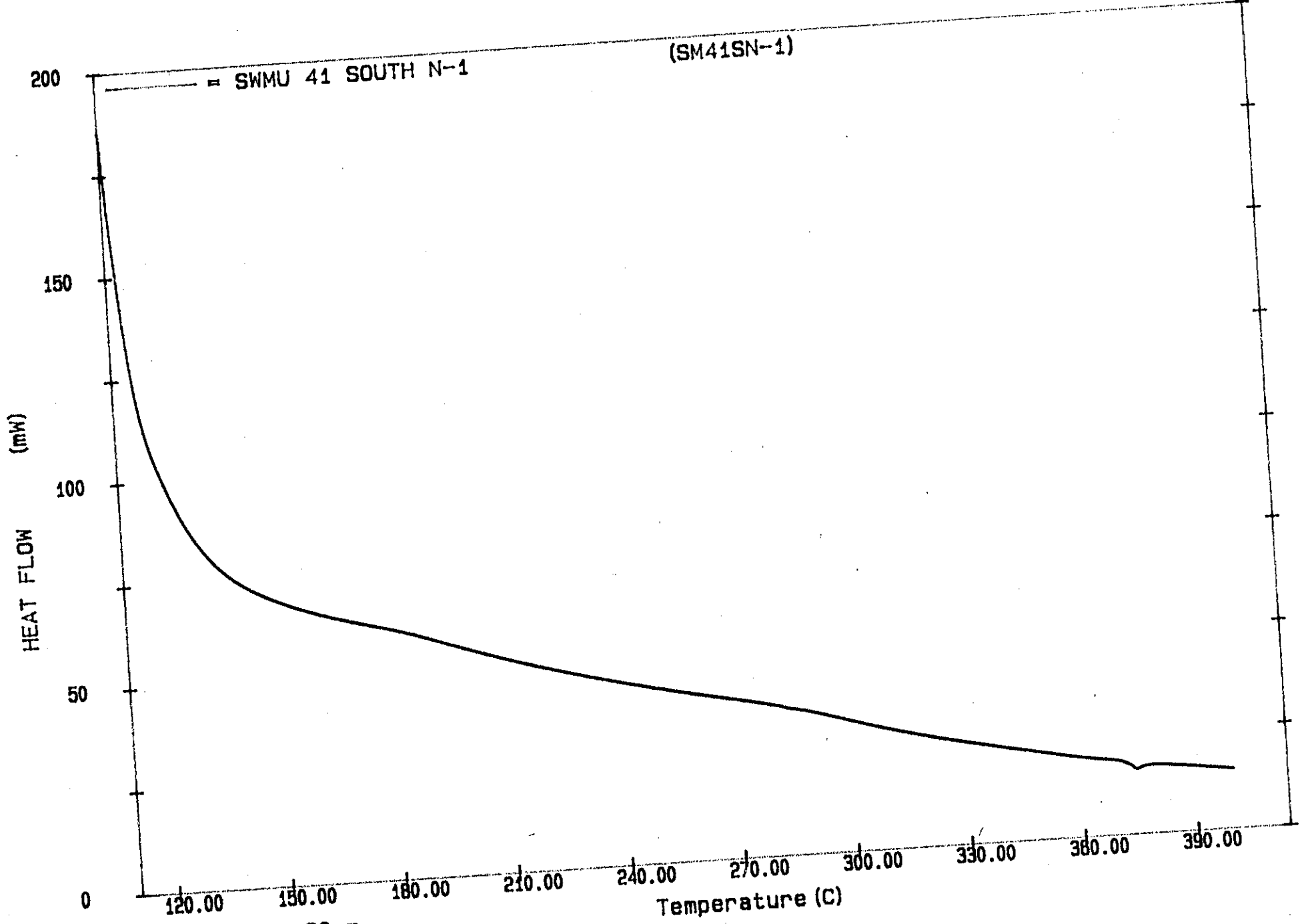
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-9-96	SWMU 41S							
	N1	N	N	N	N	N	N	N
	NW2	N	N	N	N	N	N	N
	W3	N	N	N	N	N	N	N
	SW4	N	N	N	N	N	N	N
	S5	N	N	N	N	N	N	N
	SE6	N	N	N	N	N	N	N
	E7	N	N	N	N	N	N	N
	NE8	N	N	N	N	N	N	N

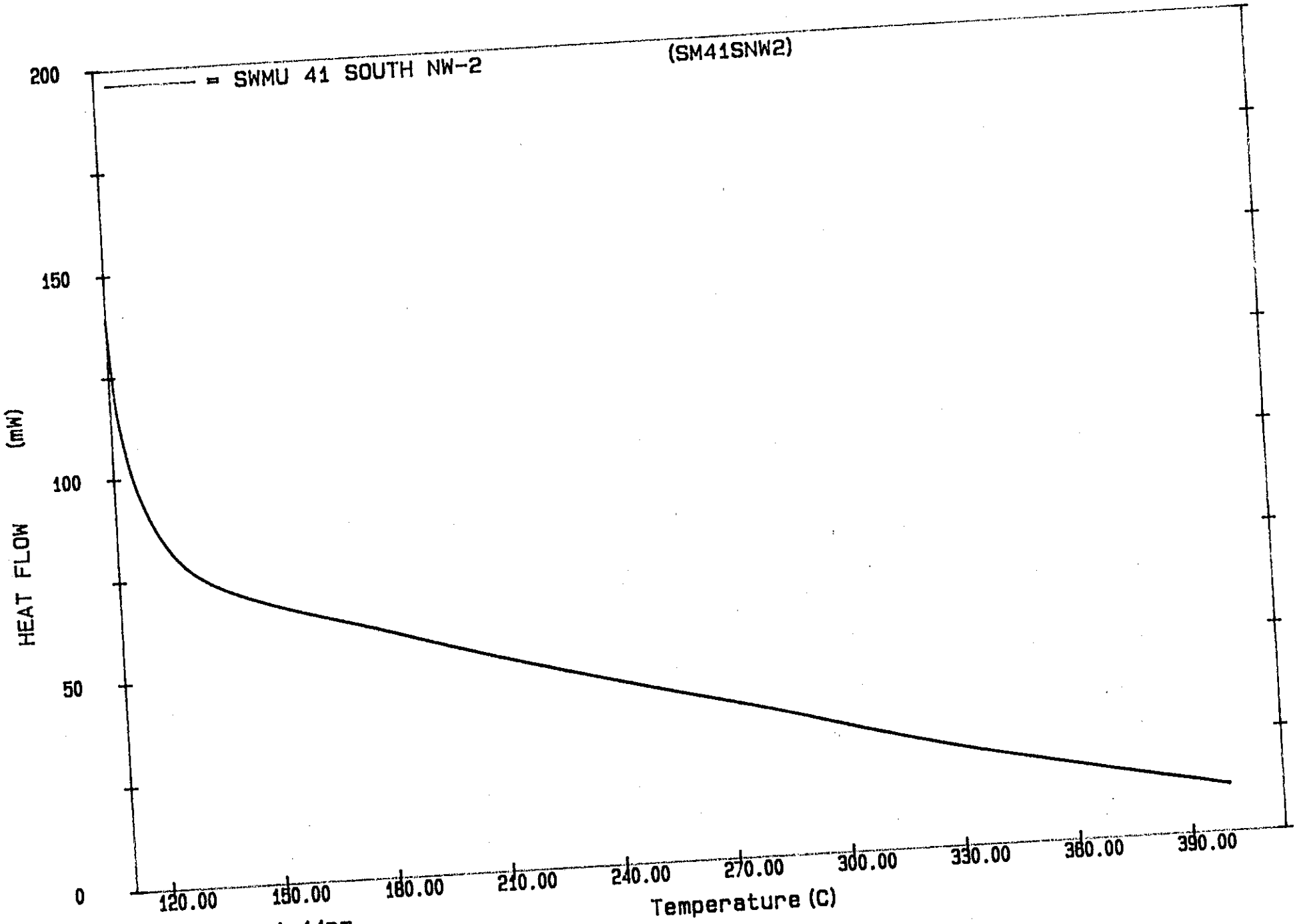
LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



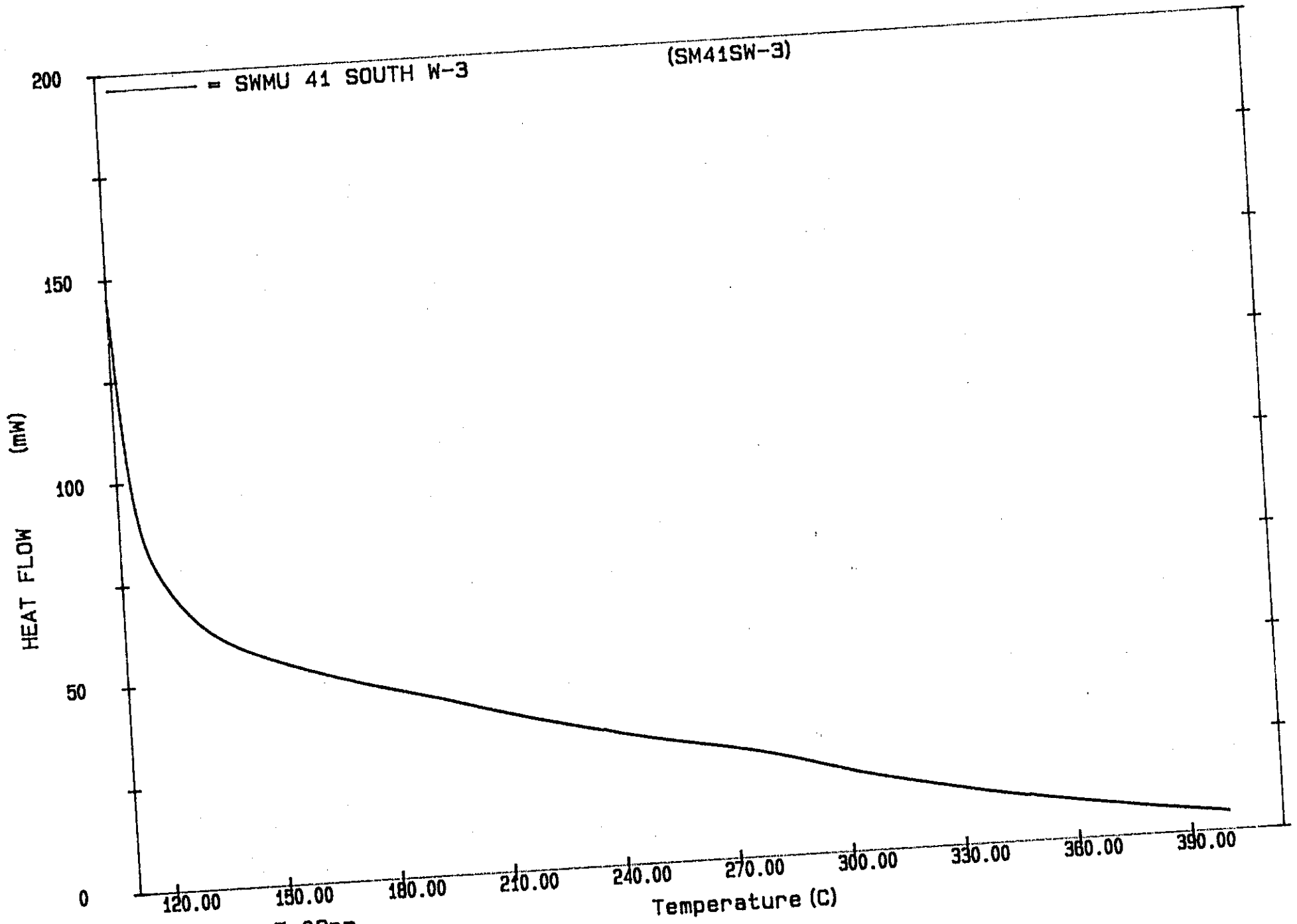
Date: Aug 03, 1996 4:20pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM41SN-1 ST 9-9-96

PERKIN-ELMER DSC7



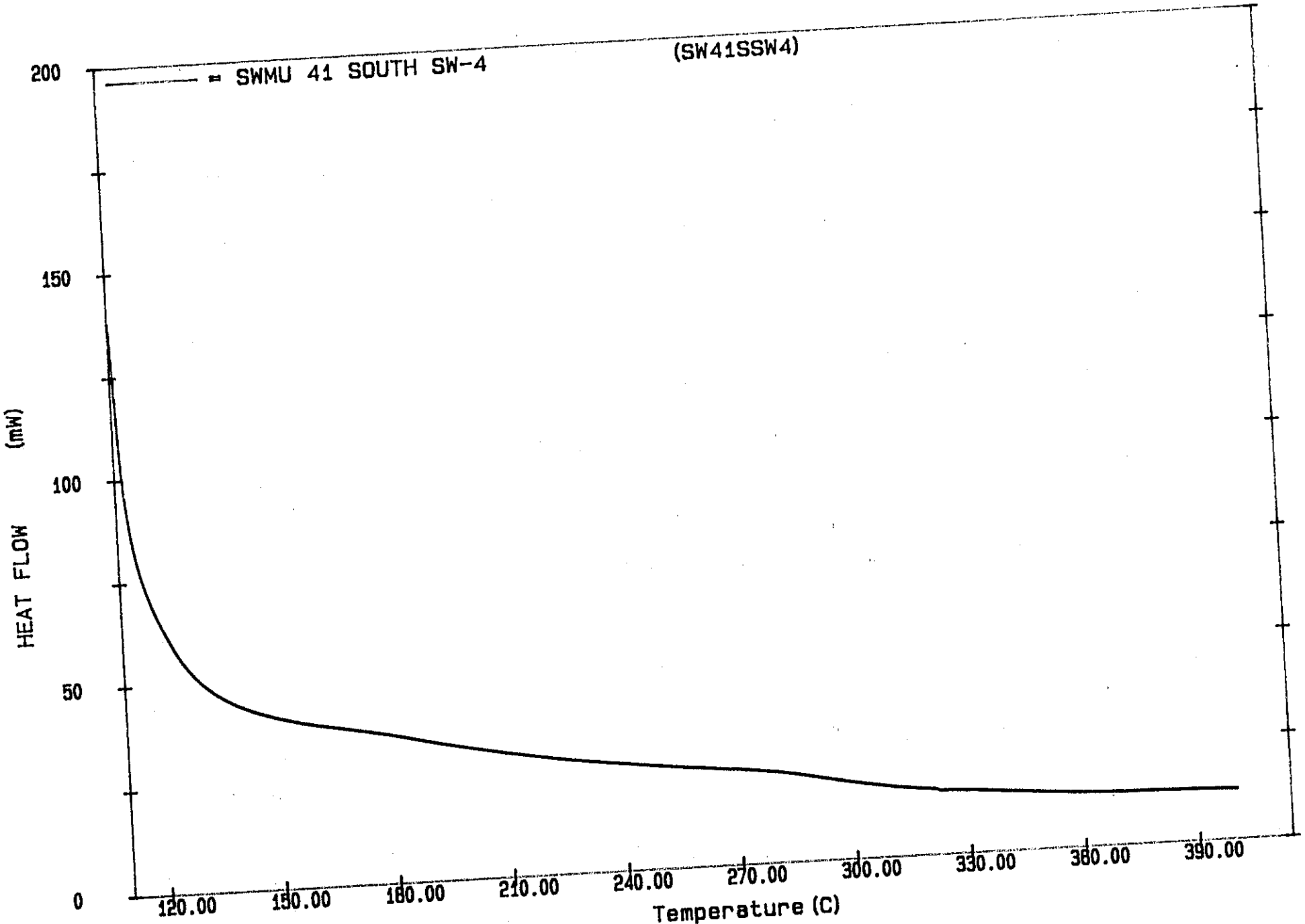
Date: Aug 03, 1996 4: 44pm
Scanning Rate: 20.0 C/min
Sample wt: 0.000 mg Path: C: \PE\
File M41SNW2 ST 9-9-96

PERKIN-ELMER DSC7



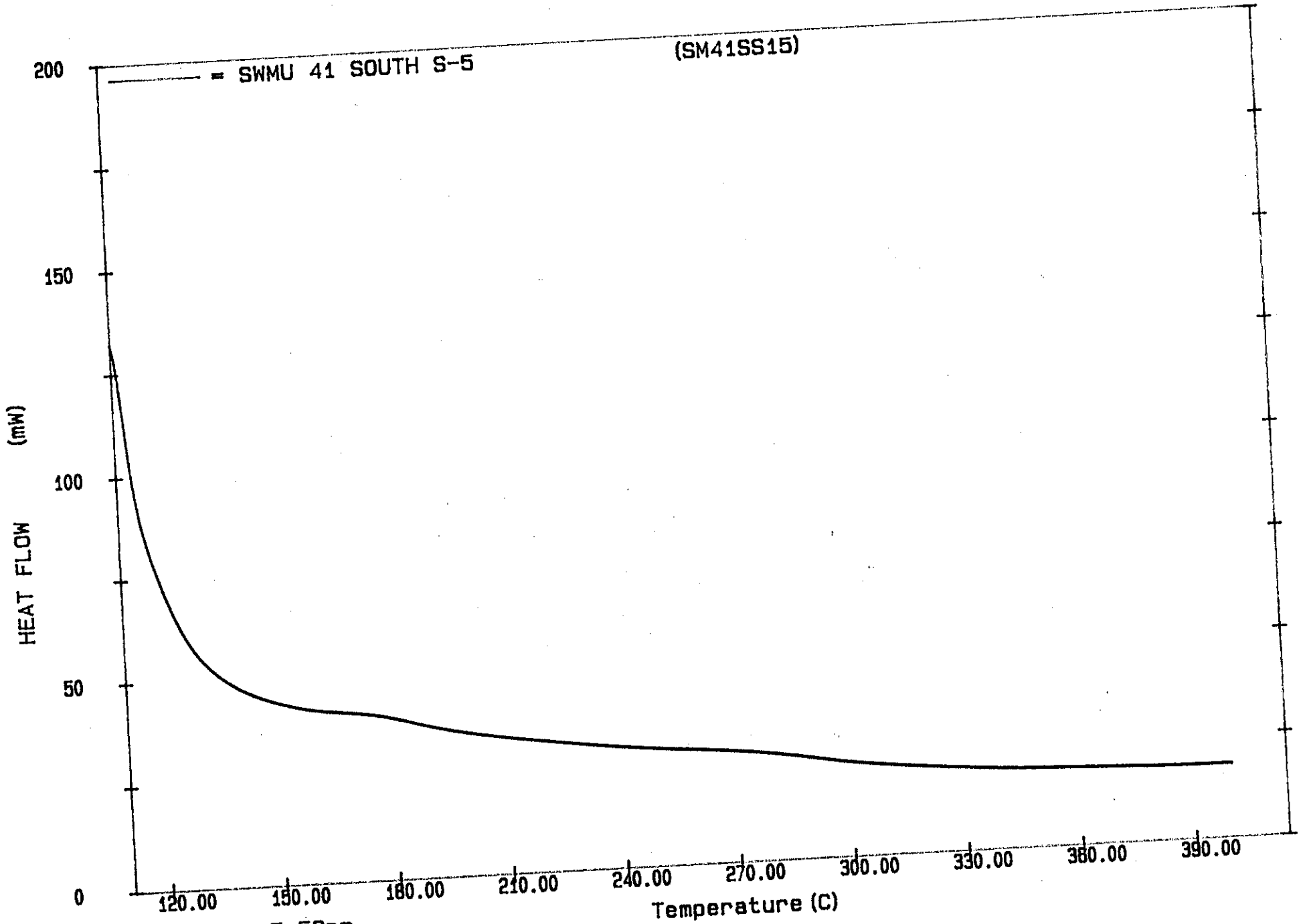
Date: Aug 03, 1996 5:08pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM41SW-3 ST 9-9-96

PERKIN-ELMER DSC7



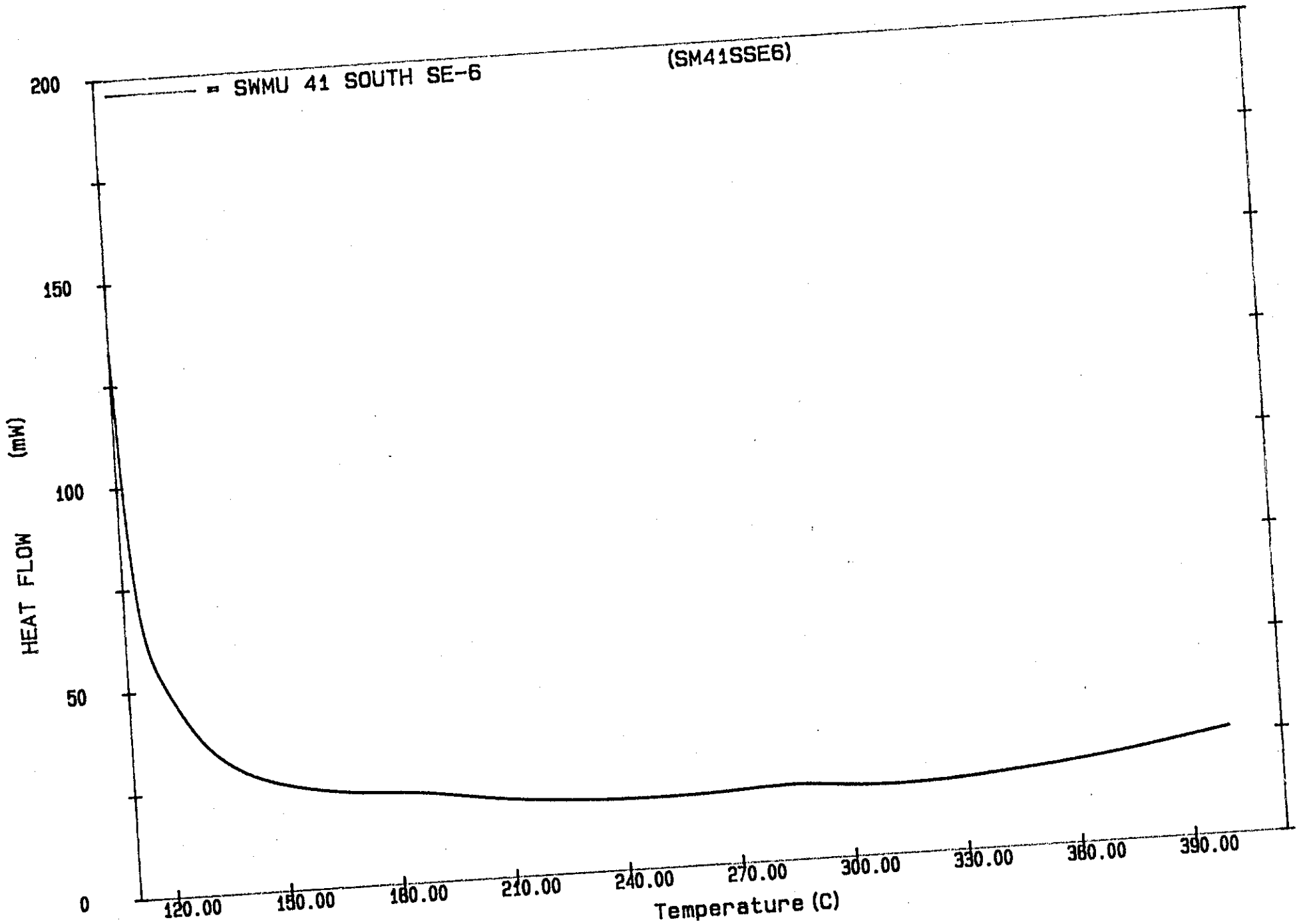
Date: Aug 03, 1996 5:31pm
Scanning Rate: 20.0 C/min
Sample [illegible]: 0.000 mg Path: C:\PE\
File [illegible]W41SSW4 ST 9-9-96

PERKIN-ELMER DSC7



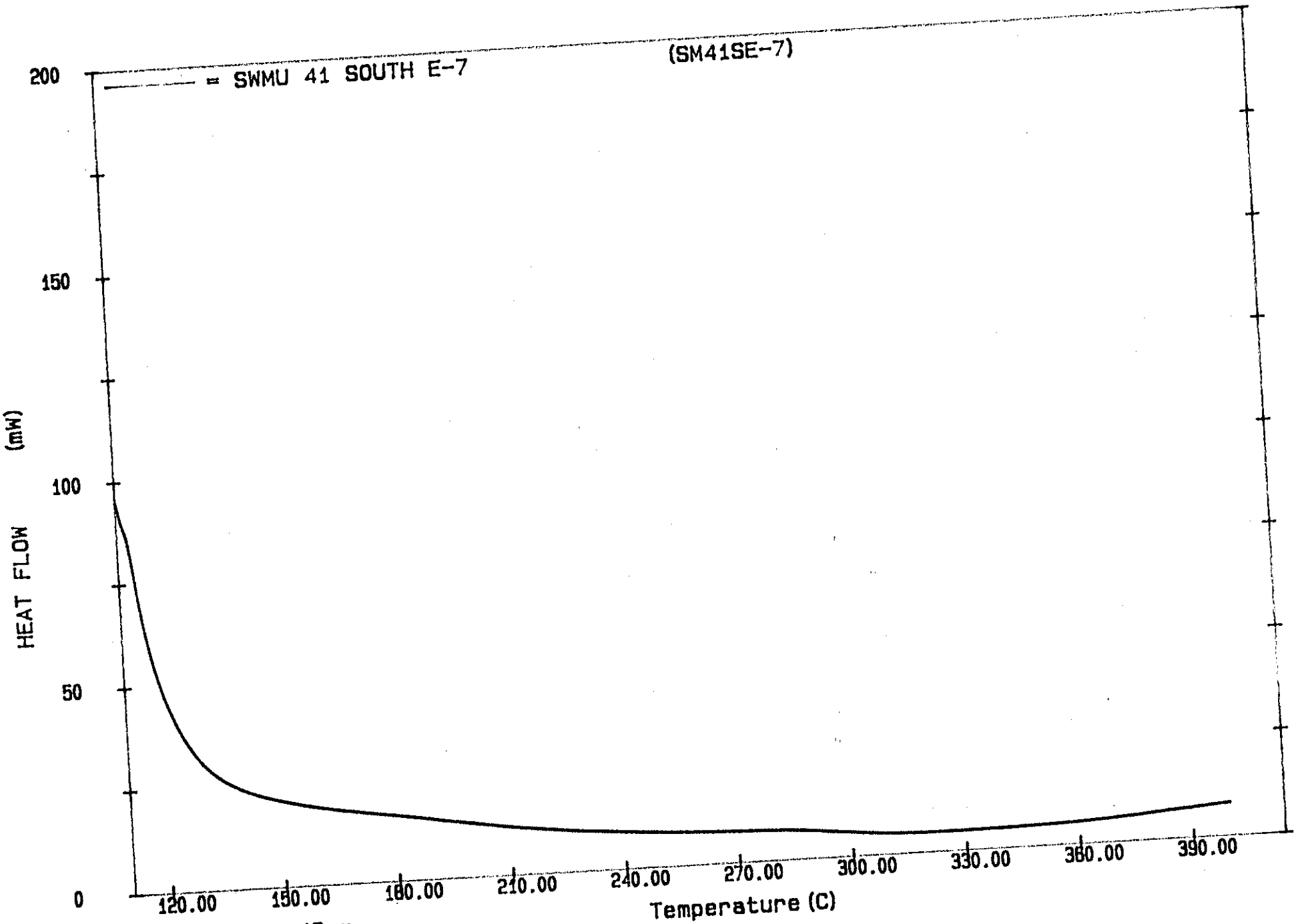
Date: Aug 03, 1996 5:58pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File M41SS15 ST 9-9-96

PERKIN-ELMER DSC7



Date: Aug 03, 1996 6: 22pm
Scanning Rate: 20.0 C/min
Samp Wt: 0.000 mg Path: C: \PE\
Fil : SM41SSE6 ST 9-9-96

PE IN-ELMER DSC7



Date: Aug 03, 1996 6:48pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File 141SE-7 ST 9-9-96

PERKIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41S DATE 9/9/96 SAMPLE NO# SS SW4

TESTER THRIFT Cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS 55

TESTER THAIEY Cook / Schmidt

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	No		
1.		✓	1.	1.
2.		✓	2.	2.
3.		✓	3.	3.
4.		✓	4.	4.
5.		✓	5.	5.
6.		✓	6.	6.

CALORIMETRIC TEST:
Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 41S DATE 9/9/96 SAMPLE NO# SS SE6

TESTER THAIFT Cook/Schmit

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	No		
1.		✓	1.	1.
2.		✓	2.	2.
3.		✓	3.	3.
4.		✓	4.	4.
5.		✓	5.	5.
6.		✓	6.	6.

CALORIMETRIC TEST:
Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS E7

TESTER THRIFT COOK / S Thrift

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes	No	Yes	No			
1.		✓			1.	1.	Neg
2.		✓		/	2.	2.	
3.		✓		/	3.	3.	
4.		✓		/	4.	4.	
5.		✓		0	5.	5.	
6.		✓		/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS NE8

TESTER THRIFT Cook / B Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.		5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

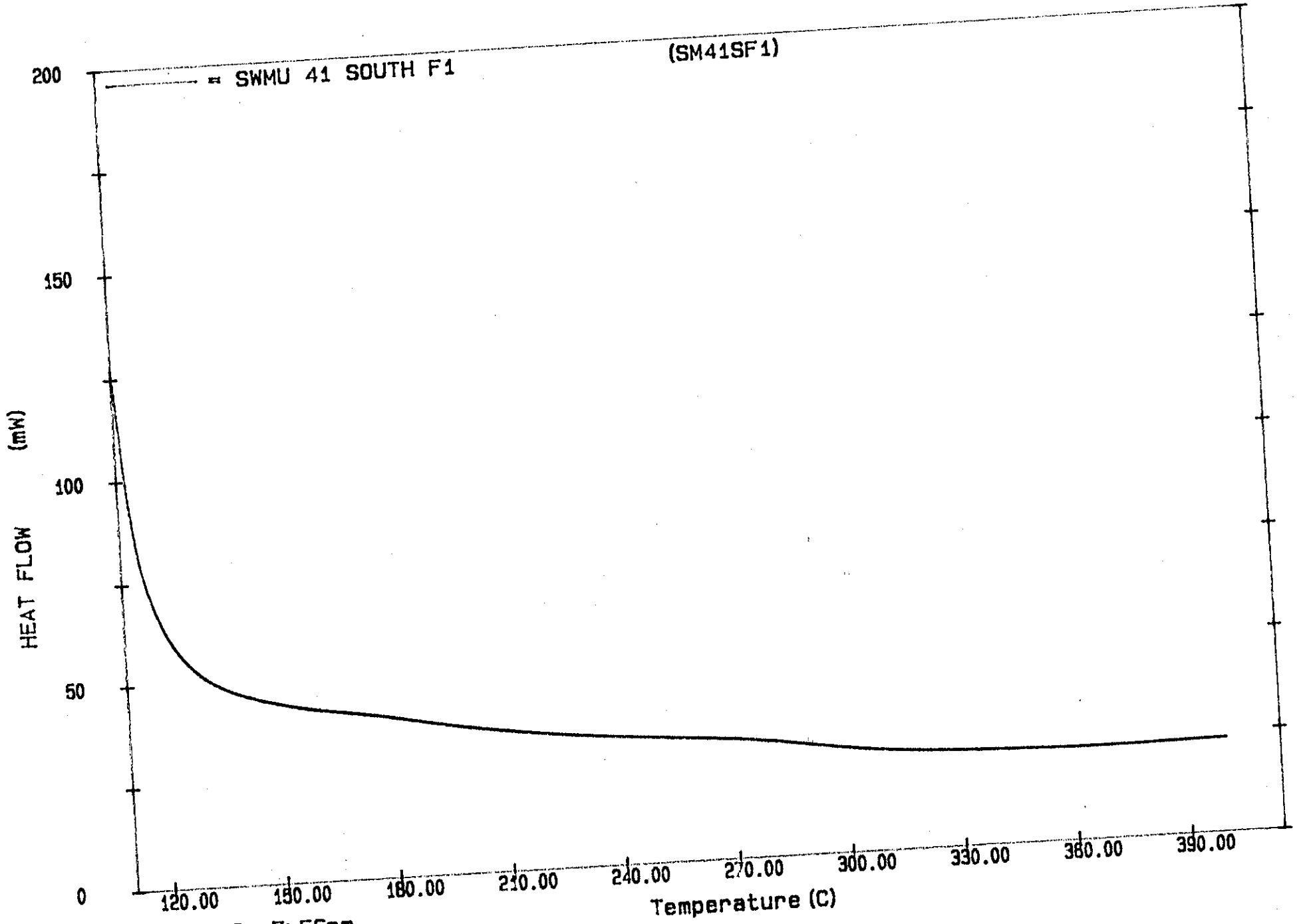
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-9-96	SWM4 415							
	F1	N	N	N	N	N	N	N
	F2	N	N	N	N	N	N	N
	F3	N	N	N	N	N	N	N
	F4	N	N	N	N	N	N	N
	F5	N	N	N	N	N	N	N
	F6	N	N	N	N	N	N	N
	F7	N	N	N	N	N	N	N
	F8	N	N	N	N	N	N	N
	F9	N	N	N	N	N	N	N

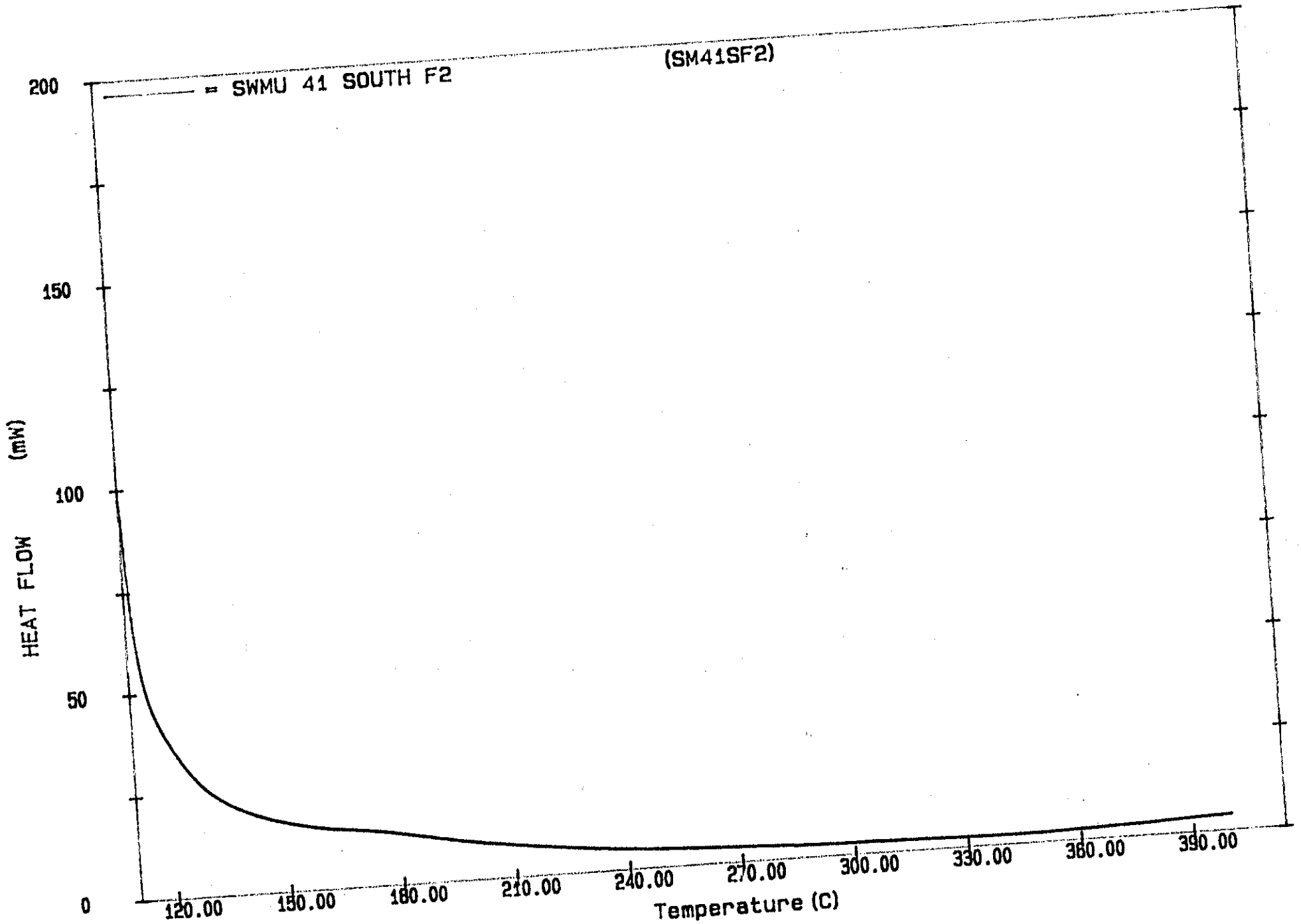
LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



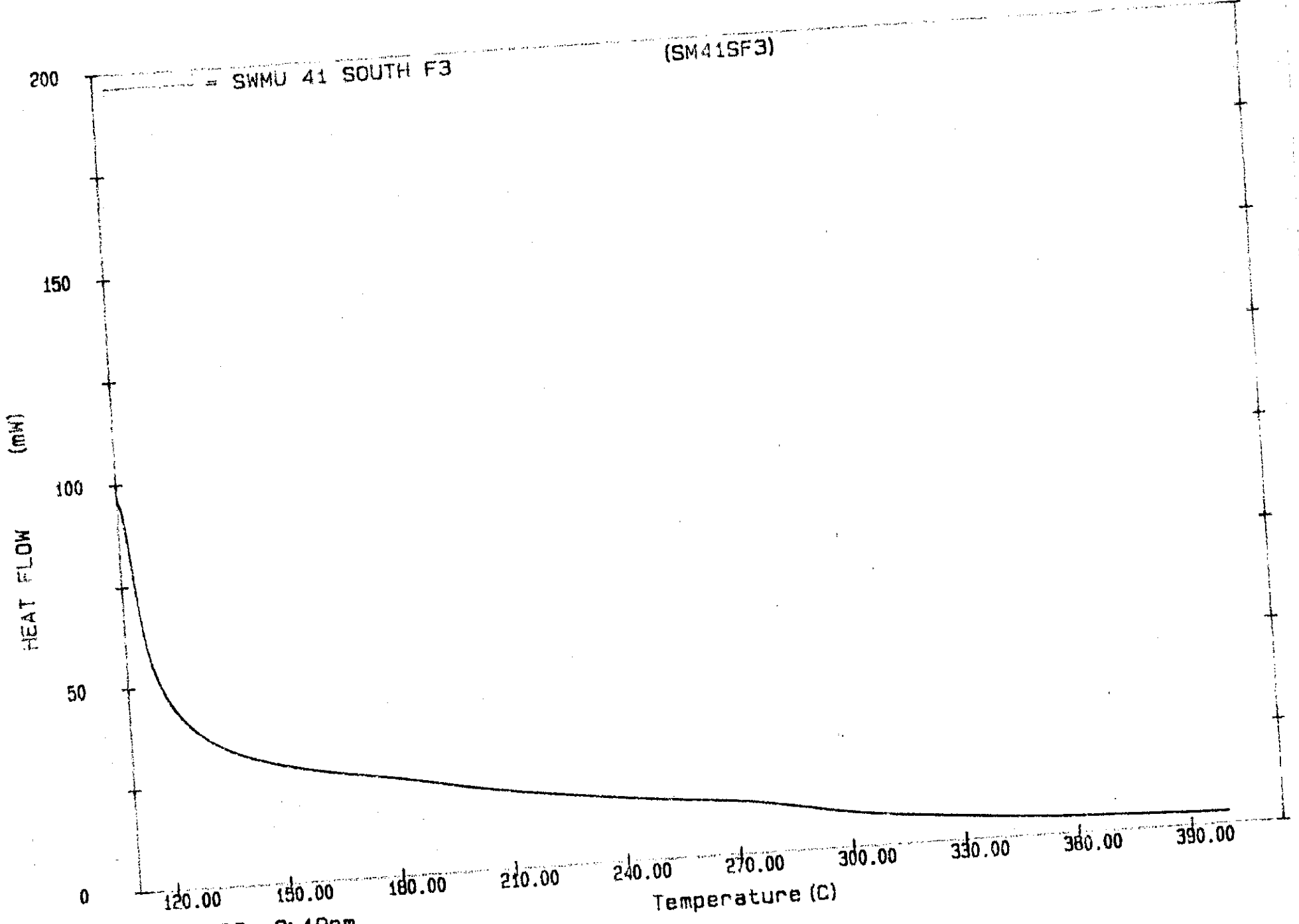
Date: Aug 03, 1996 7:56pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM41SF1 ST 9-9-96

PERKIN-ELMER DSC7



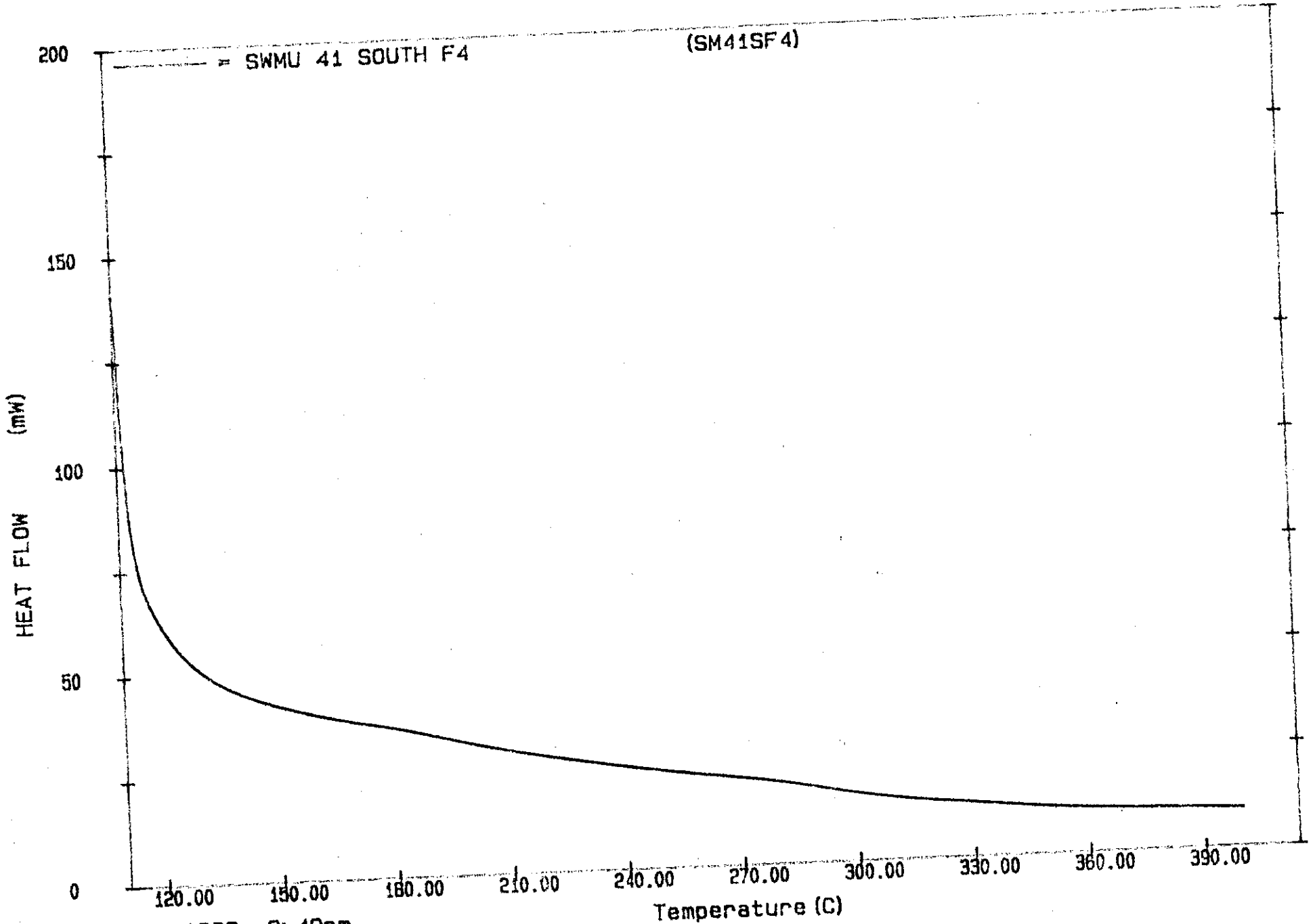
Date: Aug 03, 1996 7:12pm
Scanning Rate: 20.0 C/min
Sam Wt: 0.000 mg Path: C:\PE\
Fi 1: SM41SF2 ST 9-9-96

PE



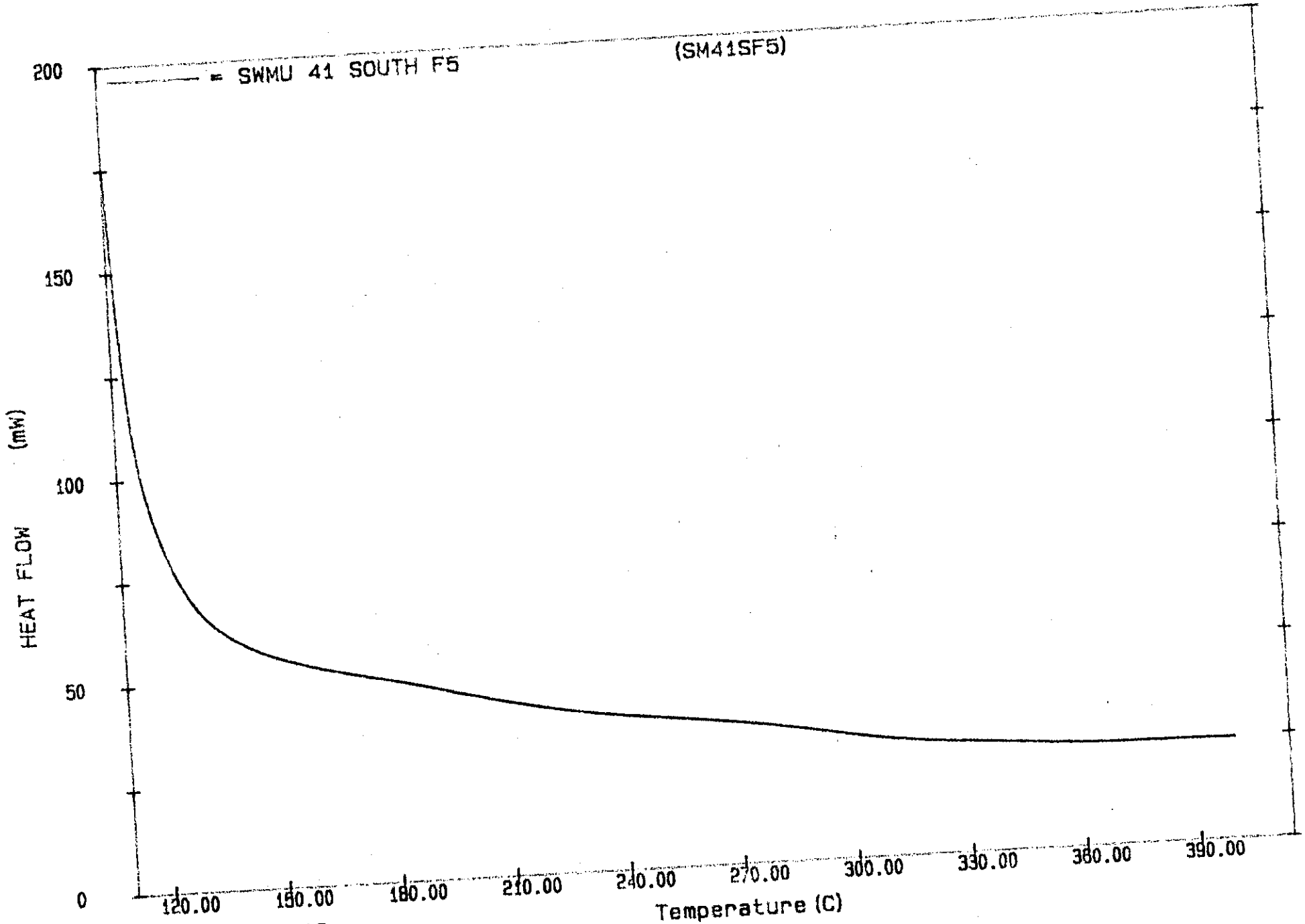
Date: Aug 03, 1996 8: 19pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File 141SF3 ST 9-9-96

PER[illegible]N-ELMER DSC7



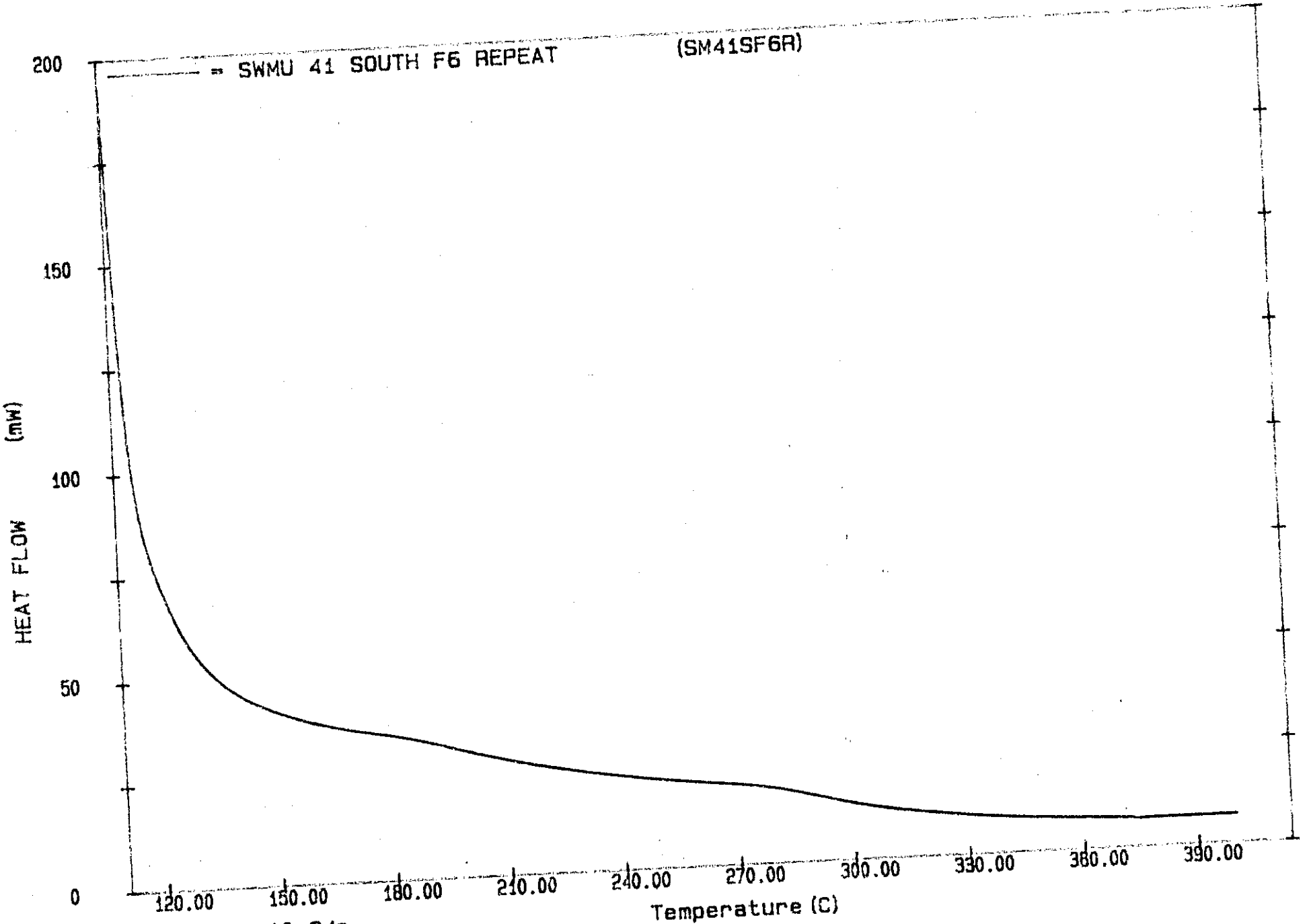
Date: Aug 03, 1996 8:49pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File 941SF4 ST 9-9-96

PERKIN-ELMER DSC7



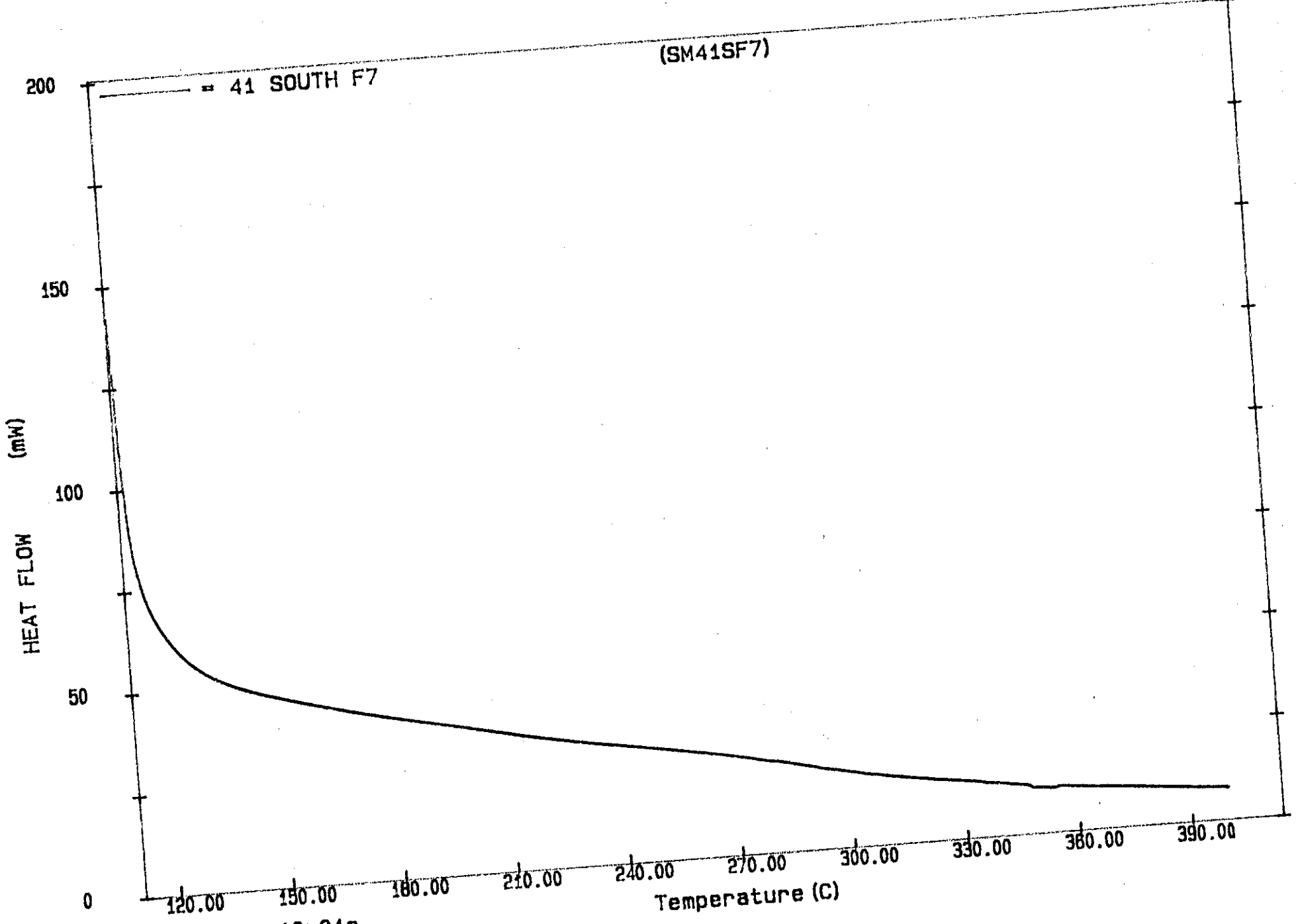
Date: Aug 03, 1996 9: 18pm
Scanning Rate: 20.0 C/min
Sampl[illegible]t: 0.000 mg Path: C: \PE\
File: SM41SF5 ST 9-9-96

PERKIN-ELMER DSC7



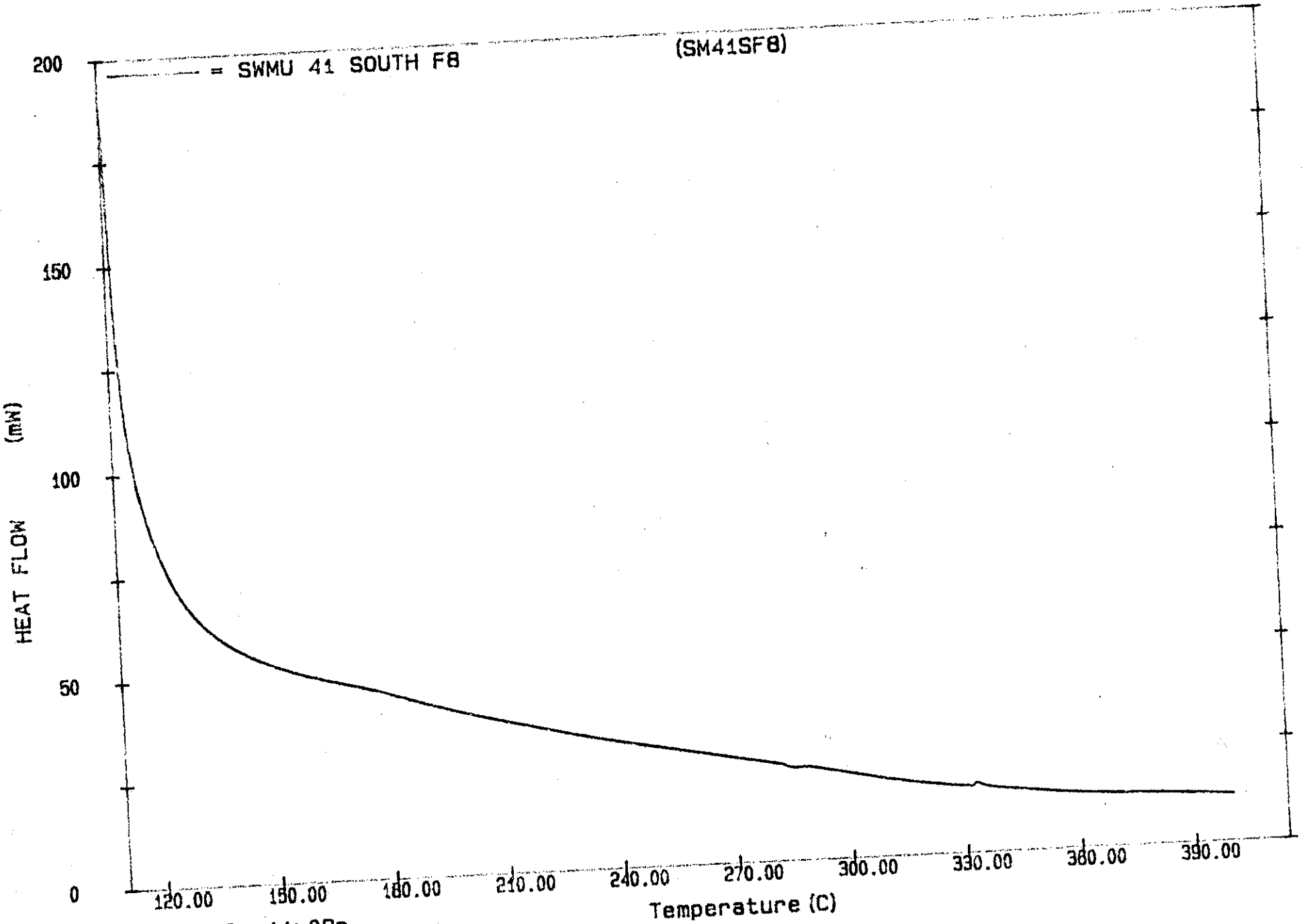
Date: Aug 03, 1996 10: 24p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File 41SF6R ST 9-9-96

PERK[illegible]N-ELMER DSC7



Date: Aug 03, 1996 10:01p
Scanning Rate: 20.0 C/min
Sam[illegible] Wt: 0.000 mg Path: C:\PE\
Fil[illegible] SM41SF7 ST 9-9-96

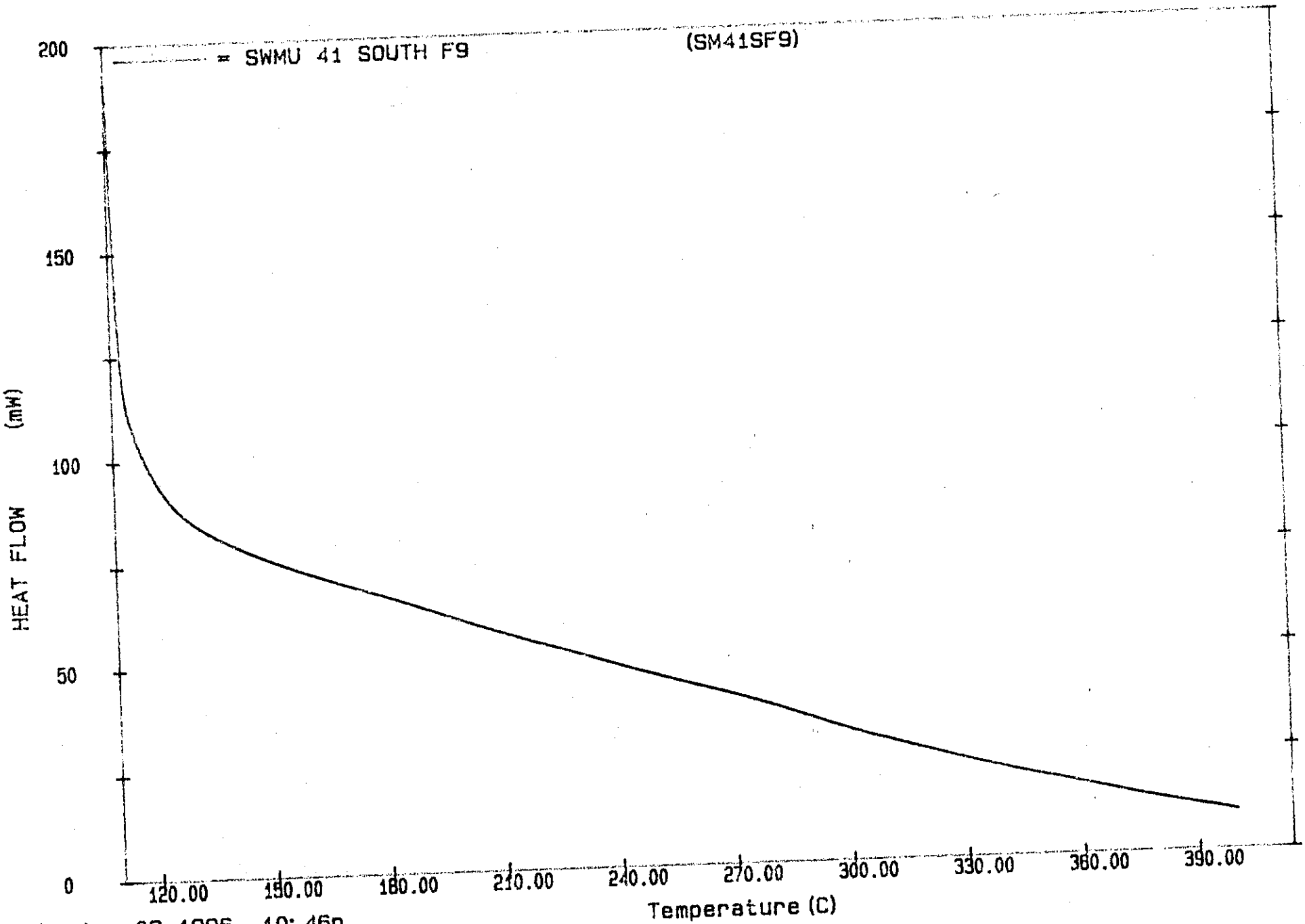
PE[illegible] TN-ELMER DSC7



Date: Aug 03, 1996 11:08p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\

F11 M41SF8 ST 9-9-96

PERKIN-ELMER DSC7



Date: Aug 03, 1996 10: 46p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
Fi: SM41SF9 ST 9-9-96

PE IN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS F1

TESTER Cook Cook/s thrust

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS F2

TESTER Cook Cook / shirt

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes	No	Yes	No		
1.		✓		✓	1.	1.
2.		✓		✓	2.	2.
3.		✓		✓	3.	3.
4.		✓		✓	4.	4.
5.		✓		✓	5.	5.
6.		✓		✓	6.	6.

CALORIMETRIC TEST:
Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS F3

TESTER Cook Cook / 1 Unit

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
	/		/	1.	1.	Neg
	/		/	2.	2.	
	/		/	3.	3.	
	/		/	4.	4.	
	/		/	5.	5.	
	/		/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS F4

TESTER Cook Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS F5

TESTER Cook Cook / Schutt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.		1.		1.	1.	Neg
2.		2.		2.	2.	
3.		3.		3.	3.	
4.		4.		4.	4.	
5.		5.		5.	5.	
6.		6.		6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS F6

TESTER Cook Cook / Shupt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS F7

TESTER Cook Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS F8

TESTER Cook Cook / Hurst

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH	CALORIMETRIC TEST: Results
1.		1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 415 DATE 9/9/96 SAMPLE NO# SS F9

TESTER Cook Cook / Shift

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	NY
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

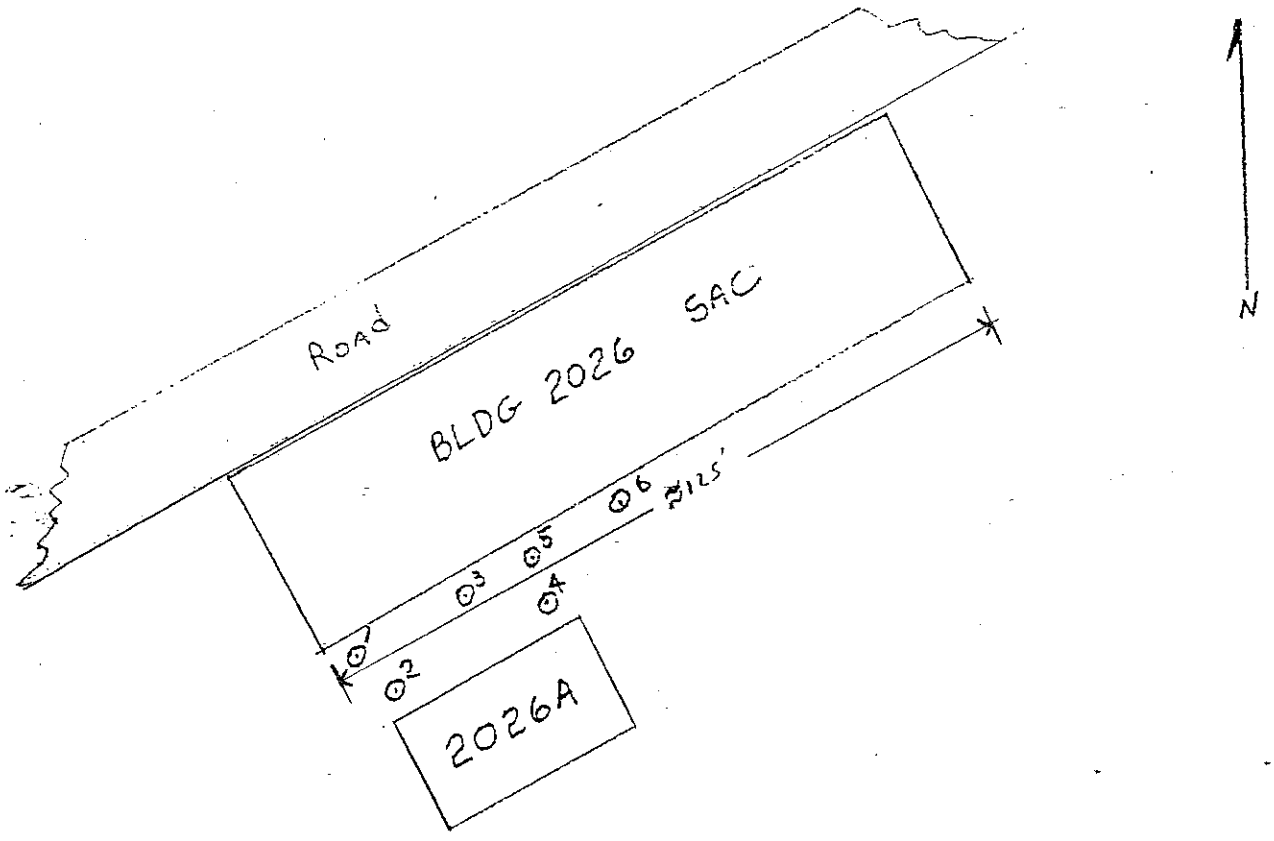
S--SURFACE
SS--SUBSURFACE

APPENDIX O

SWMU 42 - SAC BUILDING STEAM COLLECTION CONTAINERS

SWMU 42

STEAM COLLECTION CONTAINERS LOCATED BEHIND BLDG 2026 AND BETWEEN BLDG 2026A. TOOK 6 SURFACE SAMPLES (0-2"), AND 6 SUB-SURFACE SAMPLES (2-8").



SUMMARY OF ACTIVITIES FOR SWMU 42

The implementation of the ICM work plan for SWMU 42 consisted of taking surface (0-2") and subsurface (2-8") samples at six locations (see map). All samples were collected behind facility Building 2026 and tested negative for explosives using all three test methods. Surface samples were run as a composite on the calorimeter, subsurface samples were run individually.





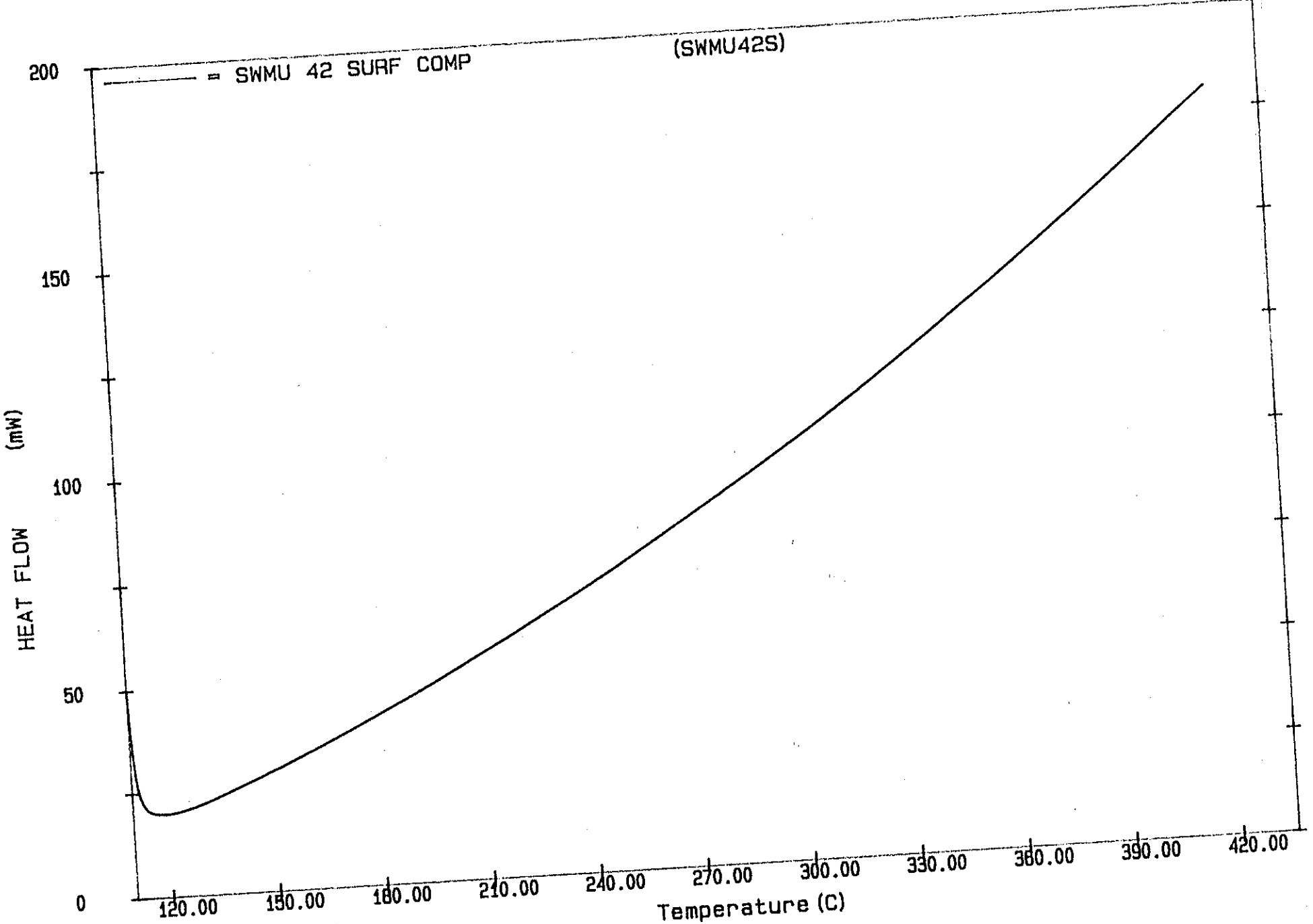
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-16-96	Shell 425	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 10, 1996 10:20p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
F 1: SWMU42S ST 8-16-96

DYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/13/96 SAMPLE NO# S1

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook / Ligon / Shirt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/13/99 SAMPLE NO# 52

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	✓	1.	✓	1.	1.	
2. ✓		2.	✓	2.	2.	
3. ✓		3.	✓	3.	3.	
4. ✓		4.	✓	4.	4.	
5. ✓		5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook/ Ligon/S. Hunt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/13/94 SAMPLE NO# 53

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Comp Ng

TESTER Cook / Ligon / S. Hurt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

CS--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/13/96 SAMPLE NO# S4

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Comp Neg

TESTER Cook / Ligoni / S. Thrift

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/13/96 SAMPLE NO# SS

FRICTION TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST: Results

Comp Neg

TESTER Cook/Ligon/S. Hurt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/13/94 SAMPLE NO# 56

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Camp Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER Cook / Ligon / S. Throt

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

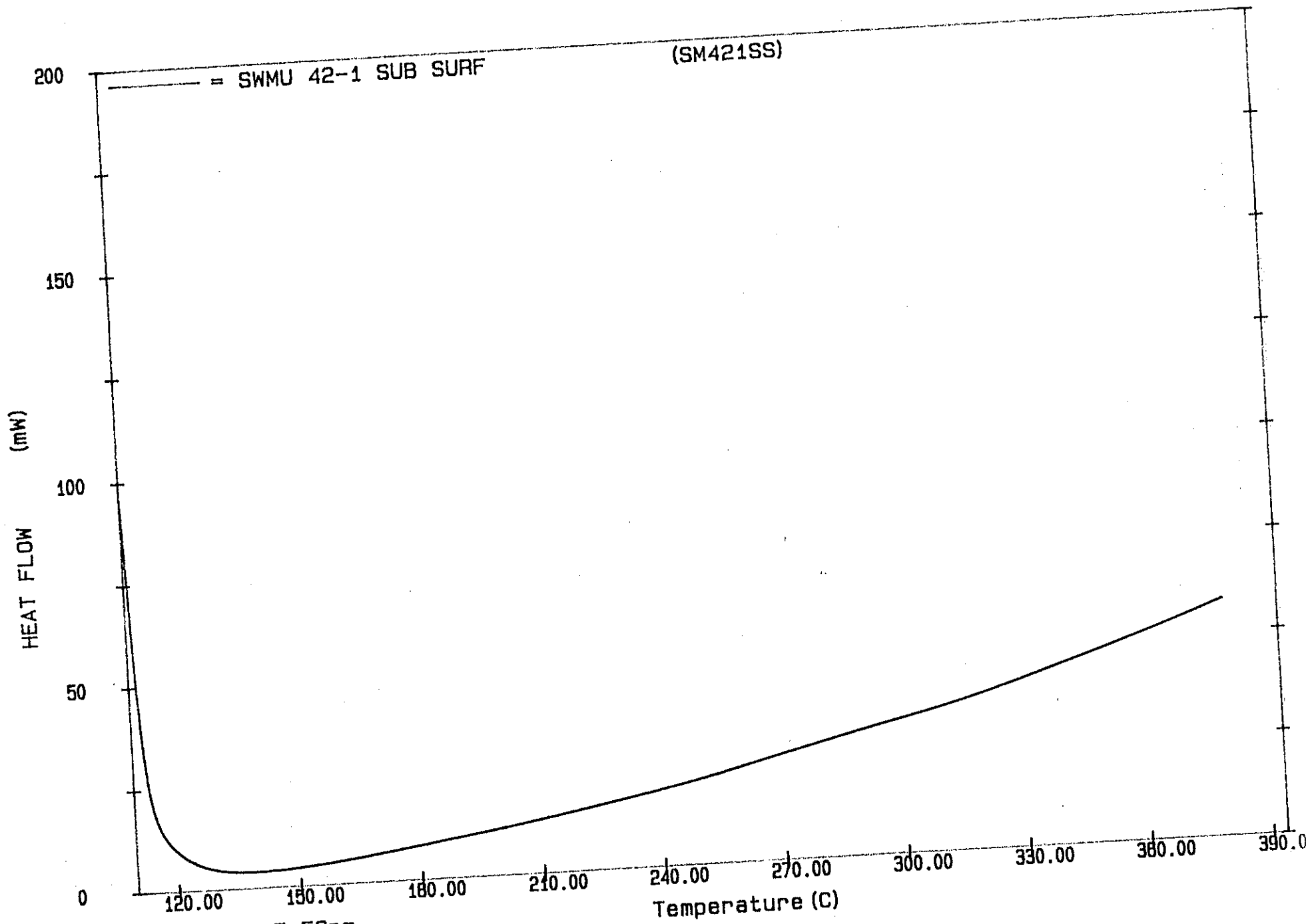
PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
	5mg 42SS							
8-19-96	42-1	N	N	N	N	N	N	N
	42-2	N	N	N	N	N	N	N *
	42-3	N	N	N	N	N	N	N
	42-4	N	N	N	N	N	N	N
	42-5	N	N	N	N	N	N	N
	42-6	N	N	N				
	42-3R	N	N	N	N	N	N	N

LEGEND

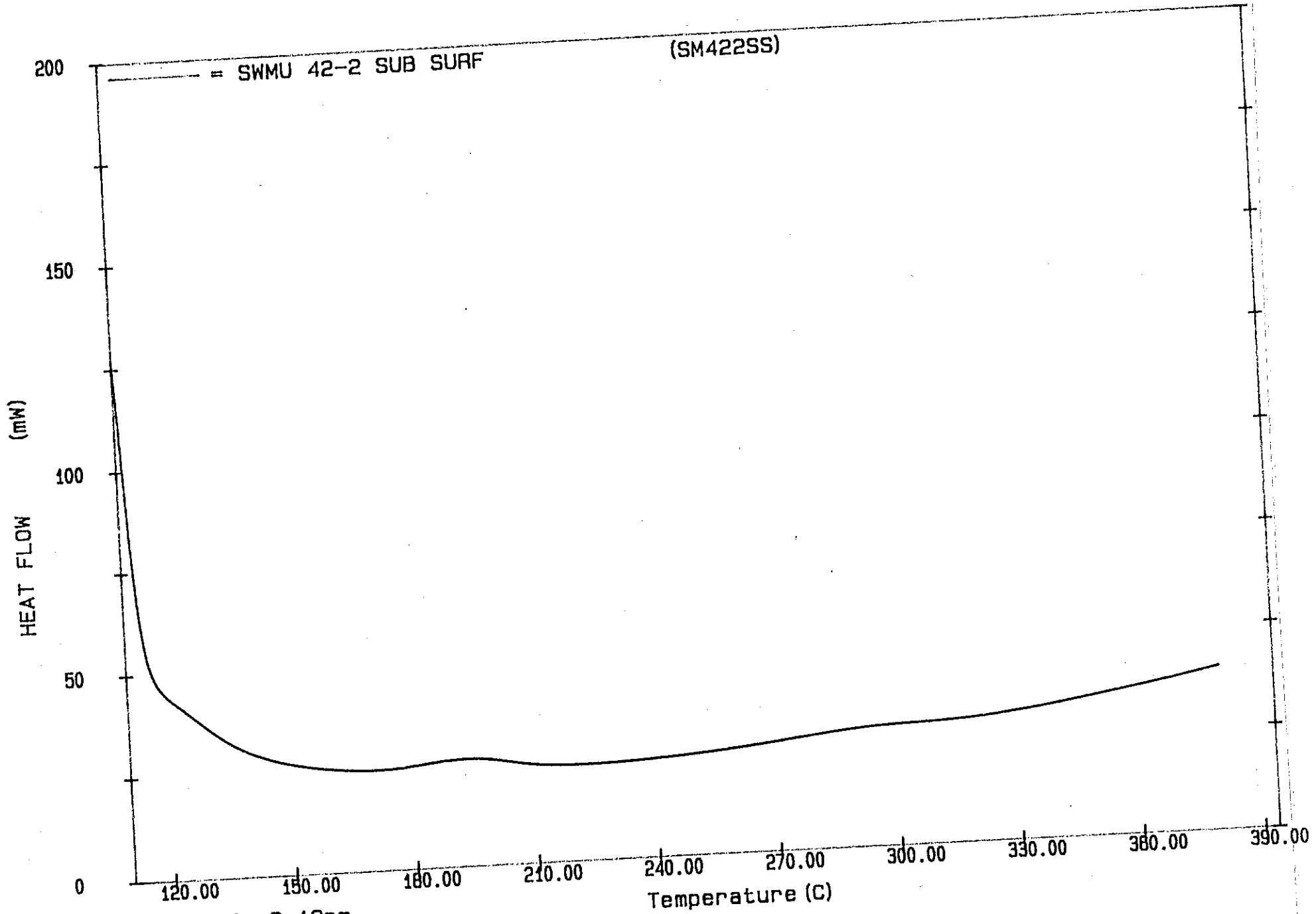
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0

* 385°c small reaction – Test repeated



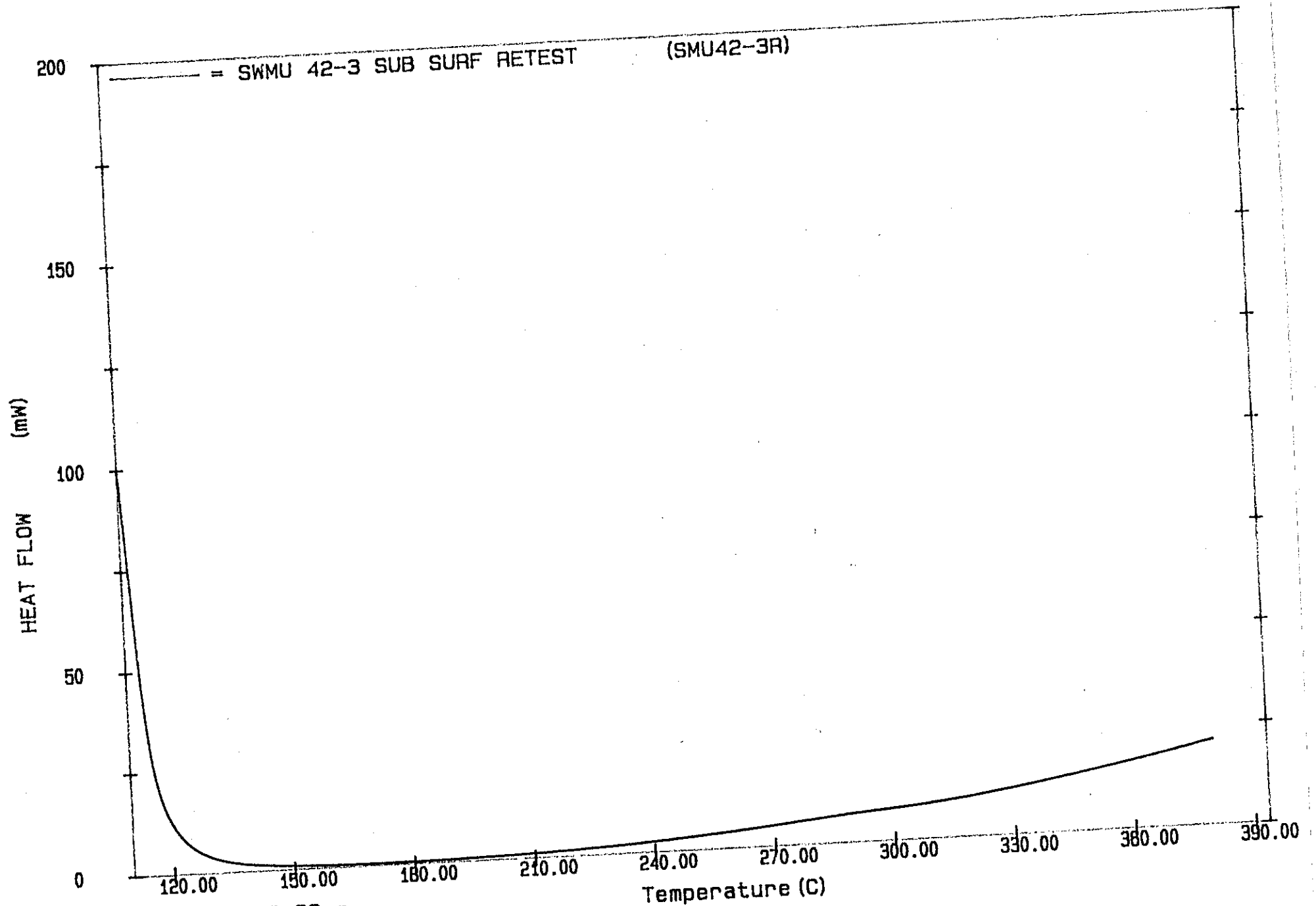
Date: Jul 13, 1996 5:56pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
1: SM421SS ST 8-19-96

DYNO NOBEL



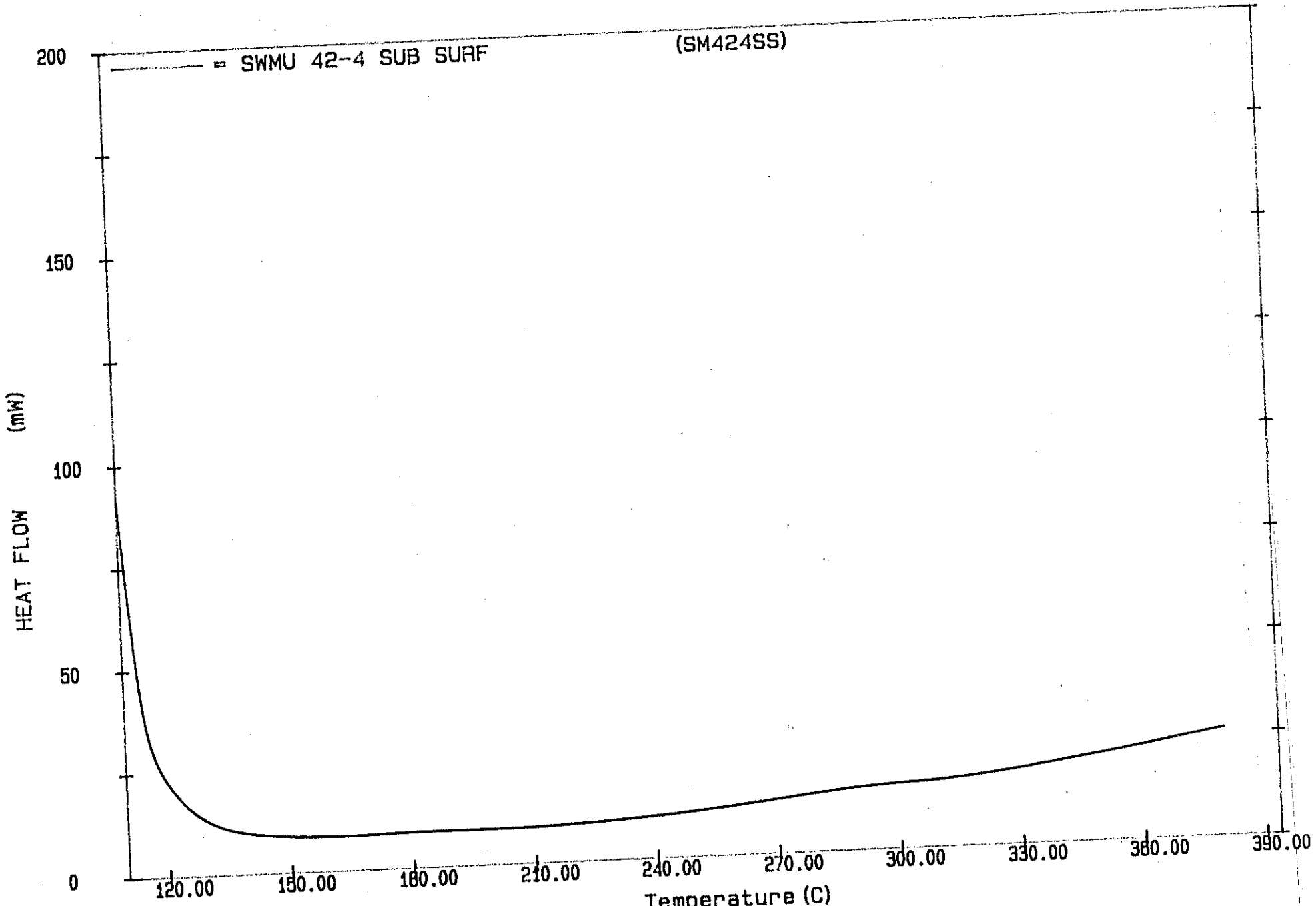
Date: Jul 13, 1996 6:19pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
F 1: SM422SS ST 8-19-96

DYNO NOBEL



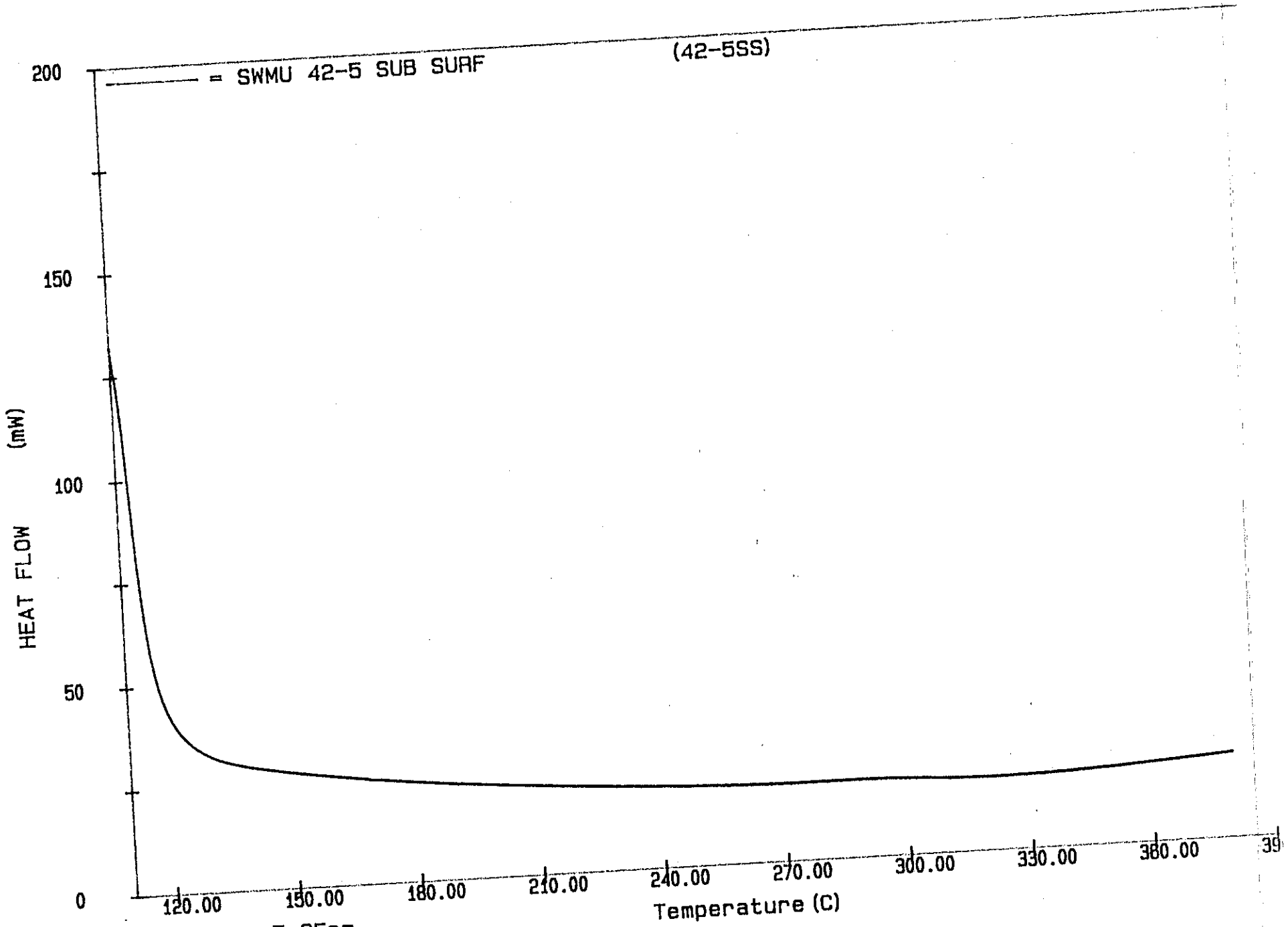
Date: Jul 13, 1996 8:33pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: SMU42-3R ST 8-19-96

NOBEL



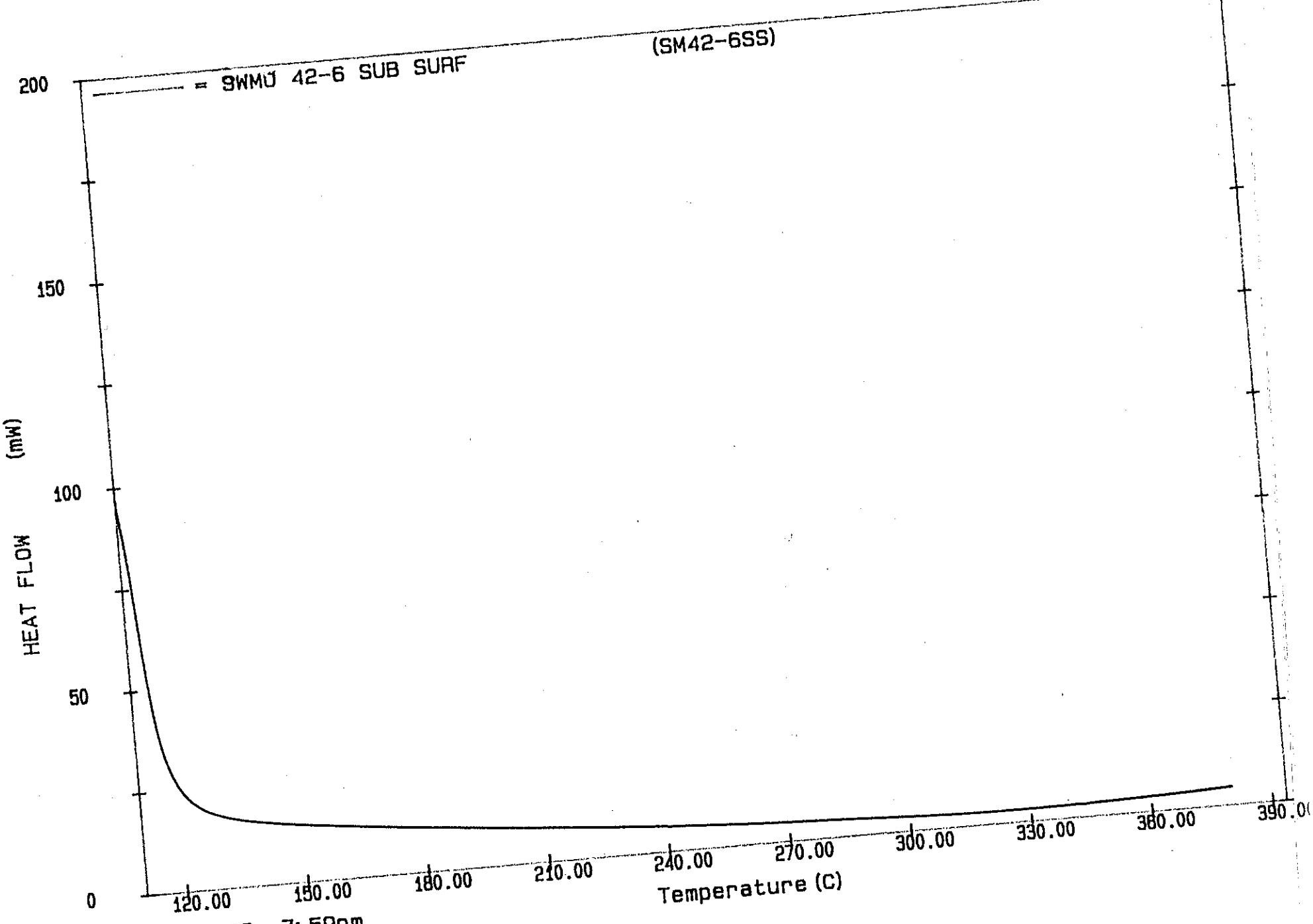
Date: Jul 13, 1996 7:12pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
F : SM424SS ST 8-19-96

DYNO NOBEL



Date: Jul 13, 1996 7:35pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
le 1: 42-5SS ST 8-19-96

DYNO NOBEL



Date: Jul 13, 1996 7:59pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
1: SM42-6SS ST 8-19-96

DYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 412 DATE 8/15/96 SAMPLE NO# SS 1

TESTER LIGON / COOK / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/15/96 SAMPLE NO# SS 2

TESTER Nigon/Cook / S Shrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/15/96 SAMPLE NO# SS 3

TESTER Lagon/cook / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1. Neg
2.	X	2.	X	2.	2.
3.	X	3.	X	3.	3.
4.	X	4.	X	4.	4.
5.	X	5.	X	5.	5.
6.	X	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/15/96 SAMPLE NO# SS 4

TESTER LIGON/COOK / 1 Unit

FRICTION TEST:

	Reactive Yes	Reactive No
1.		X
2.		X
3.		X
4.		X
5.		X
6.		X

IMPACT TEST: DEPTH

	Reactive Yes	Reactive No	
1.		X	1.
2.		X	2.
3.		X	3.
4.		X	4.
5.		X	5.
6.		X	6.

CALORIMETRIC TEST:

Results

1.	Neg
2.	
3.	
4.	
5.	
6.	

Comments:

4000 GRAM TEST WEIGHT ON THE FRICTION TEST

1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST

S--SURFACE

SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/15/96 SAMPLE NO# SS 5

TESTER W/GOW/COOK / S Thrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1. Neg
2.	X	2.	X	2.	2.
3.	X	3.	X	3.	3.
4.	X	4.	X	4.	4.
5.	X	5.	X	5.	5.
6.	X	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 42 DATE 8/15/96 SAMPLE NO# SS 6

TESTER LIGON/COOK / S Shrut

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

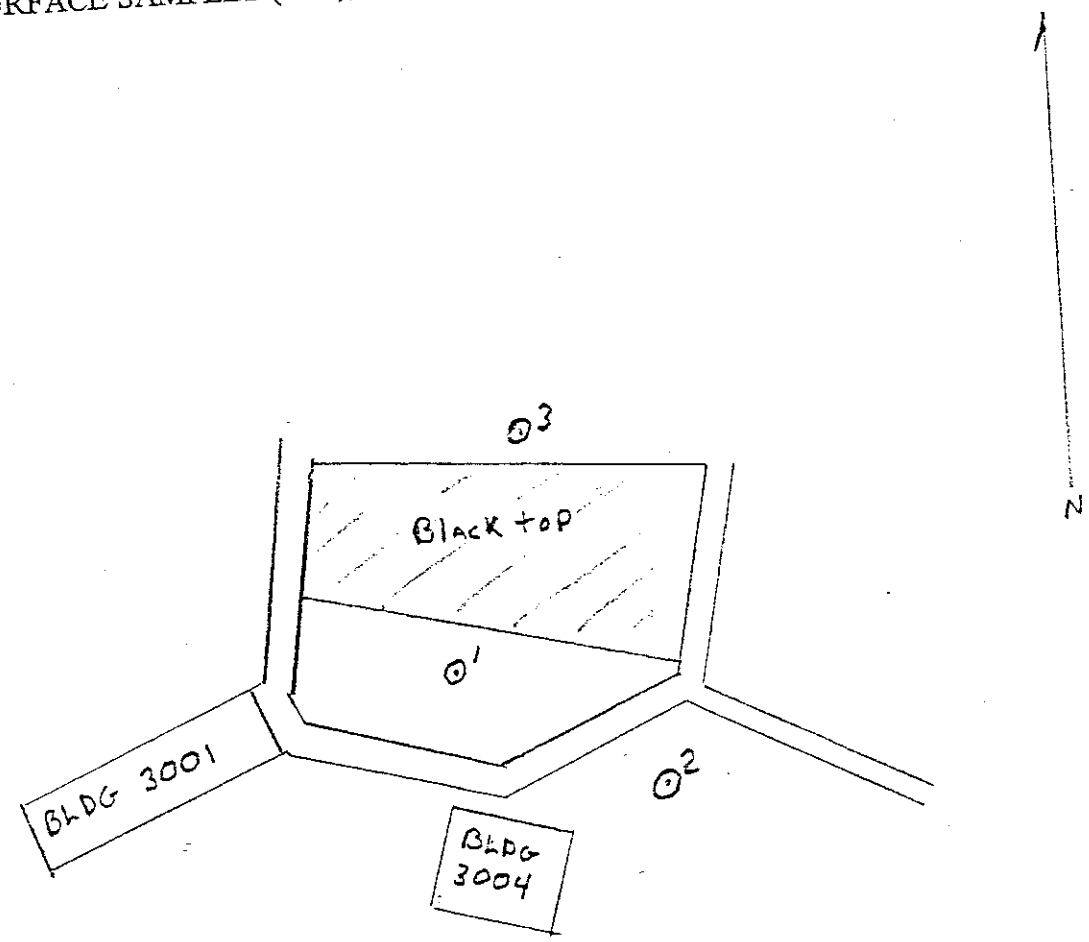
S--SURFACE
SS--SUBSURFACE

APPENDIX P

SWMU 46 - VACUUM LINE CONDENSATE COLLECTION SUMP - BUILDING 2059

SWMU 46

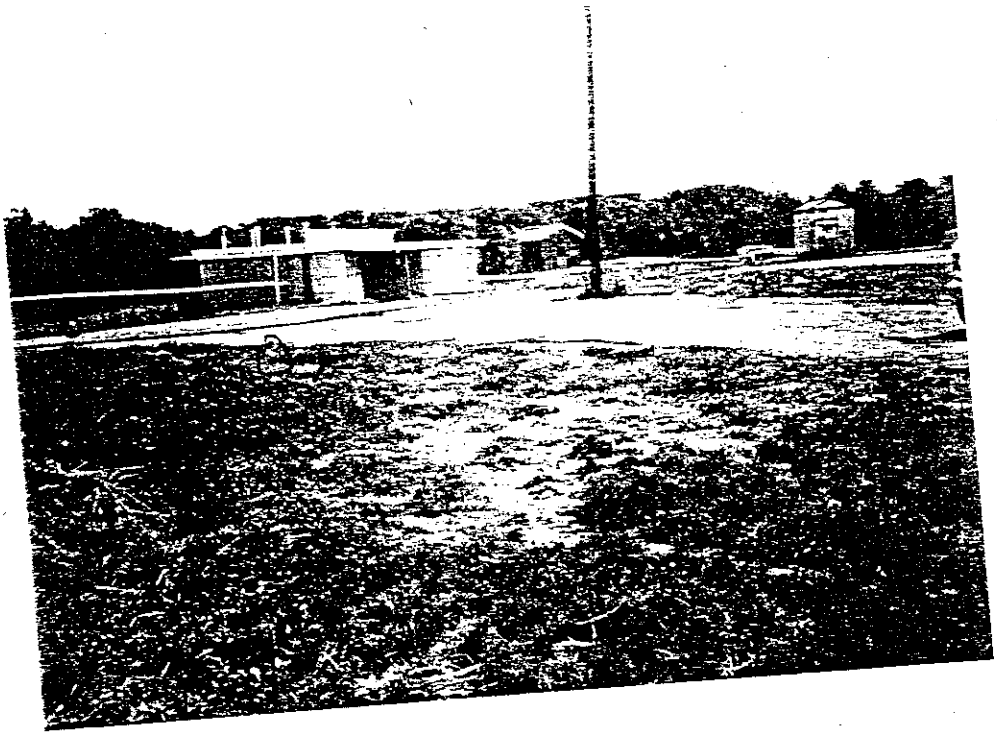
VACUUM LINE CONDENSATE COLLECTION SUMP, BLDG 2059 (DESTROYED).
TOOK 3 SURFACE SAMPLES (0-2"), AND 3 SUBSURFACE SAMPLES (2-8").

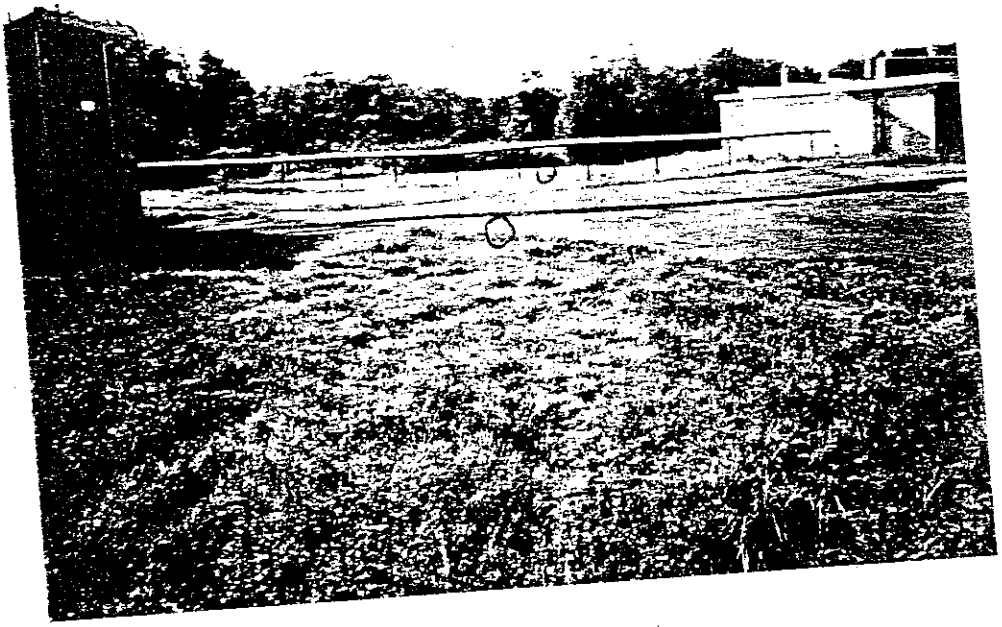


NOT TO SCALE

SUMMARY OF ACTIVITIES FOR SWMU 46

The implementation of the ICM work plan for SWMU 46 consisted of taking surface (0-2") and subsurface (2-8") samples at three locations (see map). Samples were collected in the vicinity of former facility Building 2059 and tested negative for explosives using all three test methods. Surface samples were run as a composite on the calorimeter, subsurface samples were run individually.





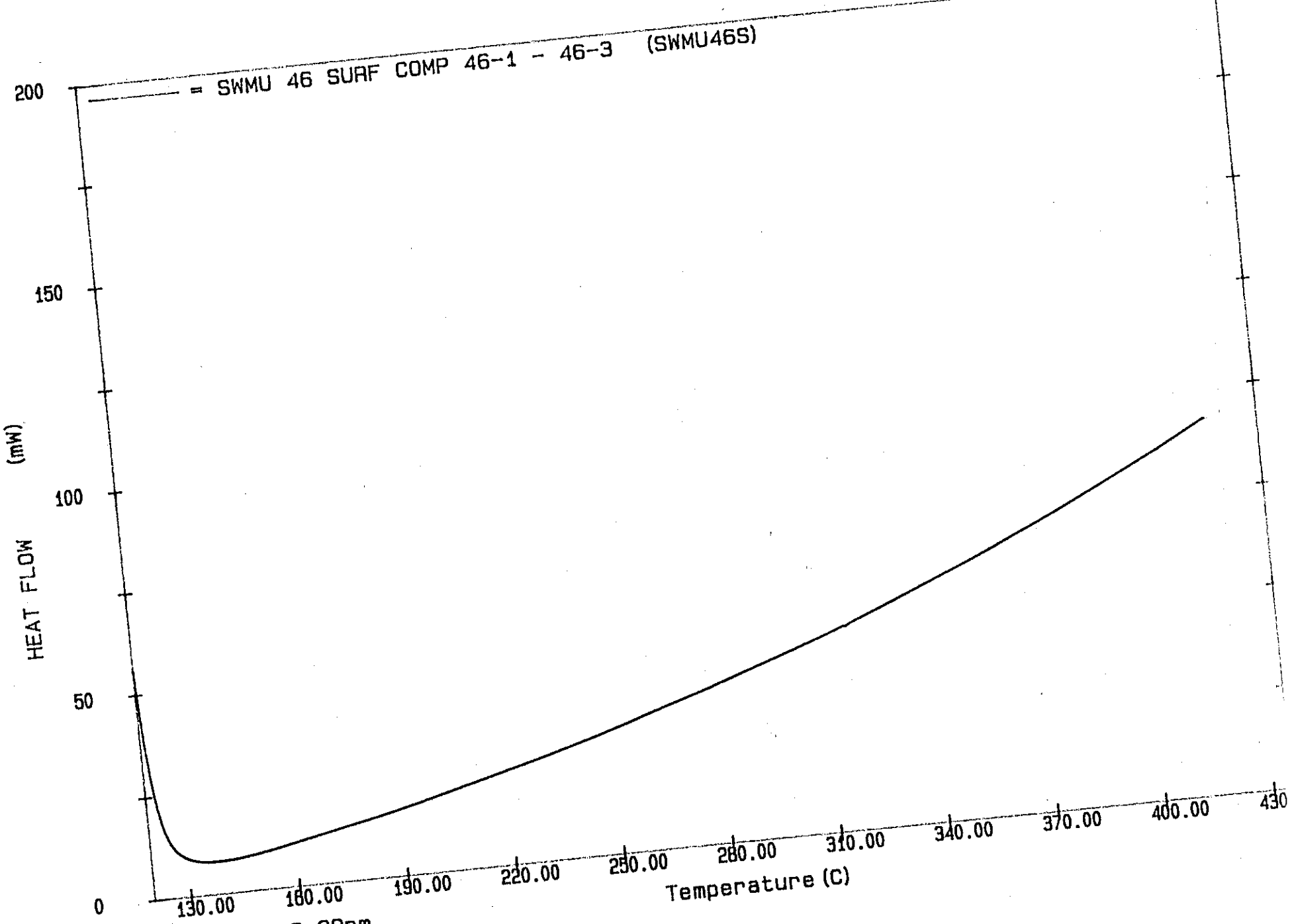
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-16-96	SMU 65	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE		TET=	TETRYL
RDX=		DDNP=	DIAZODINITROPHENOL
PETN=		Y=	YES
LA=	LEAD AZIDE	N=	N0
LS=	LEAD STYPHYNATE		



Date: Jul 10, 1996 9:29pm
Scanning Rate: 20.0 C/min
ple Wt: 0.000 mg Path: UXB\
le 1: SWMU46S ST 8-16-96

DYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 46 DATE 8/12 SAMPLE NO# 51

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Comp Neg
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

TESTER [signature] / Ligow / S-Hart

Comments: ~~40 gr~~ 4000 gr Friction test
1kg at 100cm

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 4/6 DATE 6/12 SAMPLE NO# S2

FRICTION TEST: Reactive	Yes	No
1.		X
2.		X
3.		X
4.		X
5.		X
6.		X

IMPACT TEST: Reactive	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH	
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST: Results

Comp neg

TESTER [signature] / S. Hunt

Comments: ~~[illegible]~~ 4000 gram Friction test
1 Kg at 100cm impact

S²-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 46 DATE 8/12 SAMPLE NO# 53

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1.	Comp. Neg
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

TESTER [signature] / S. [signature]

Comments: 7000 gr Friction
1 kg At 100 cm

S--SURFACE
SS--SUBSURFACE

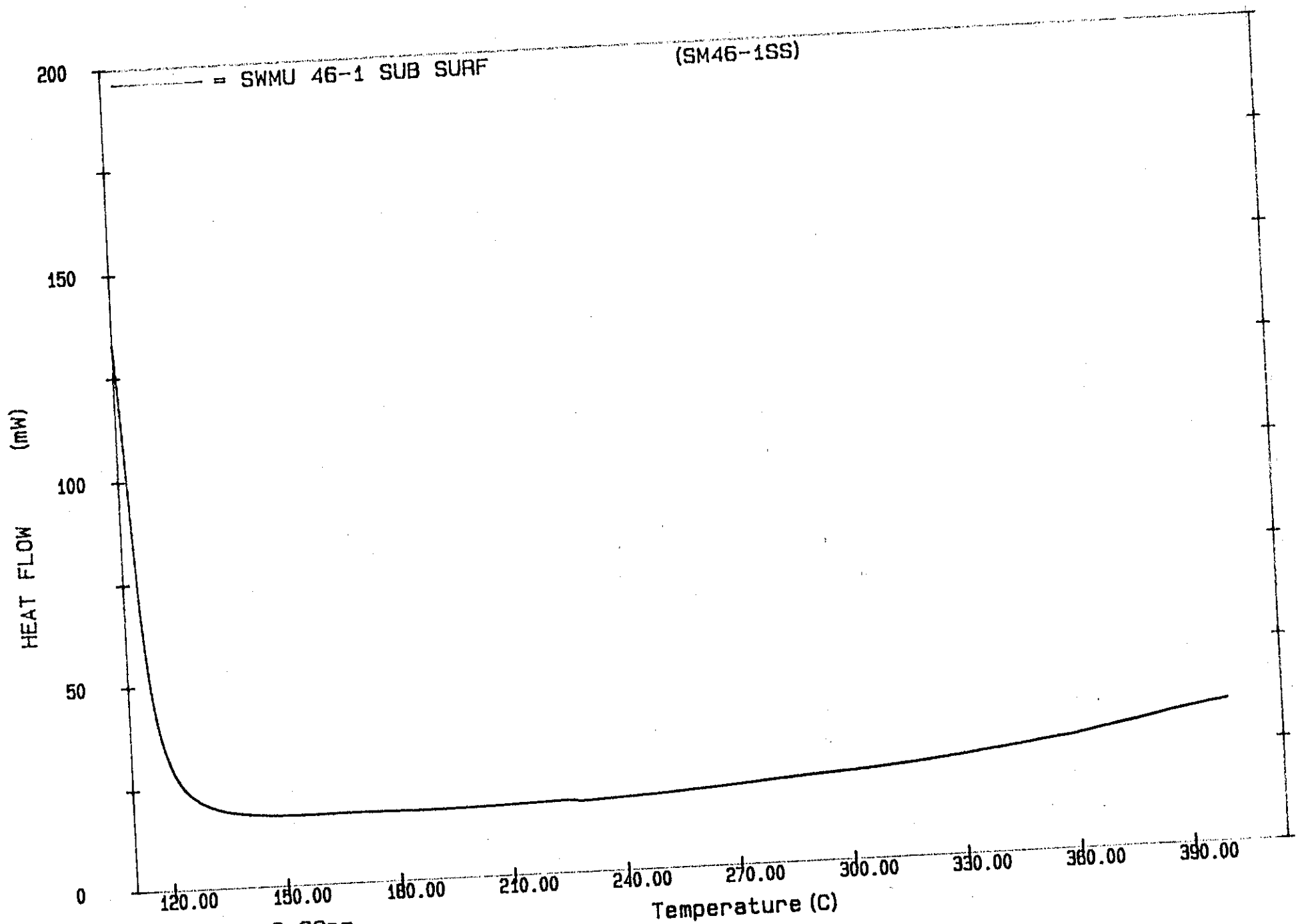
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-21-96	Smu 4655							
	46-1	N	N	N	N	N	N	N
	46-2	N	N	N	N	N	N	N
	46-3	N	N	N	N			

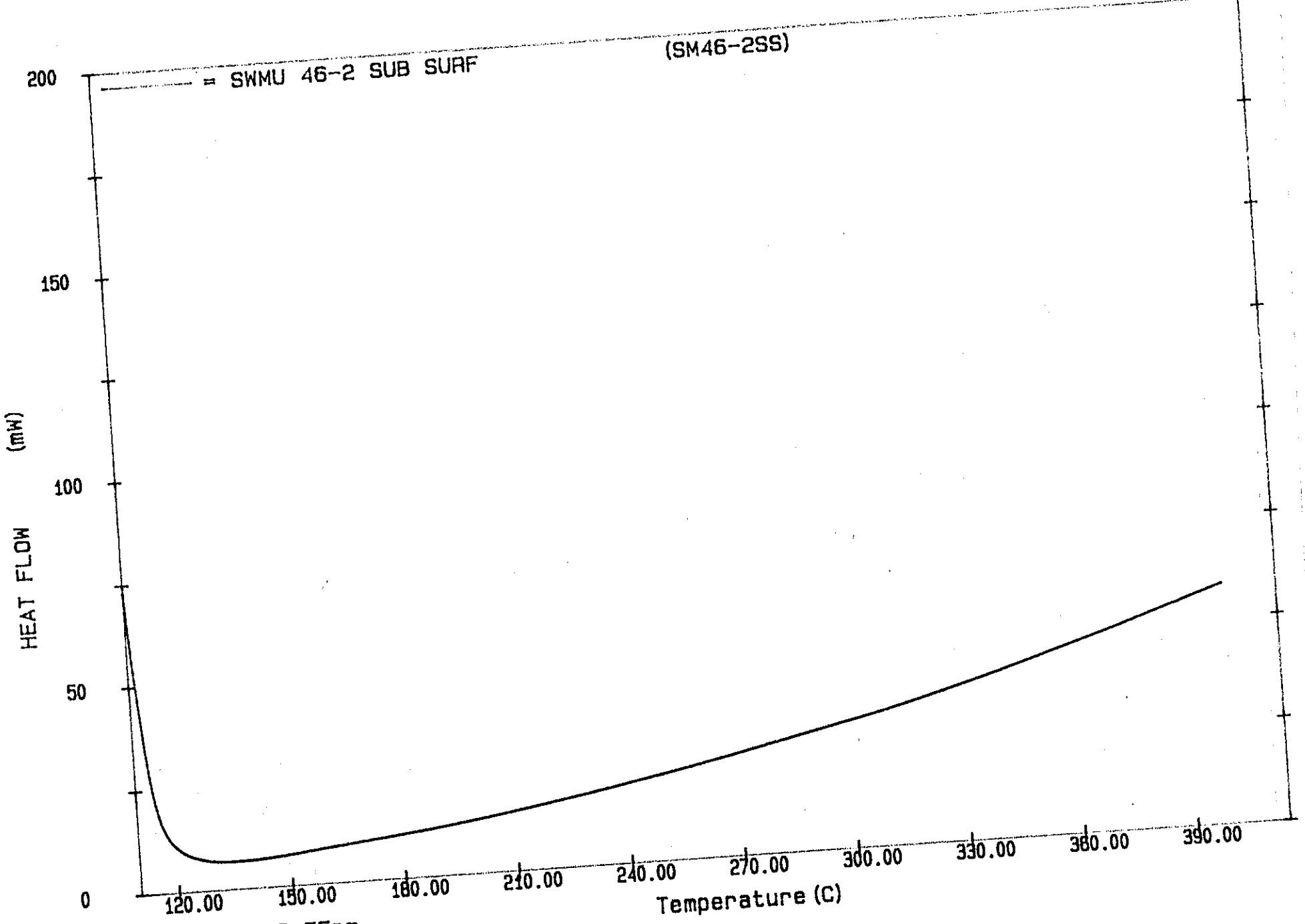
LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



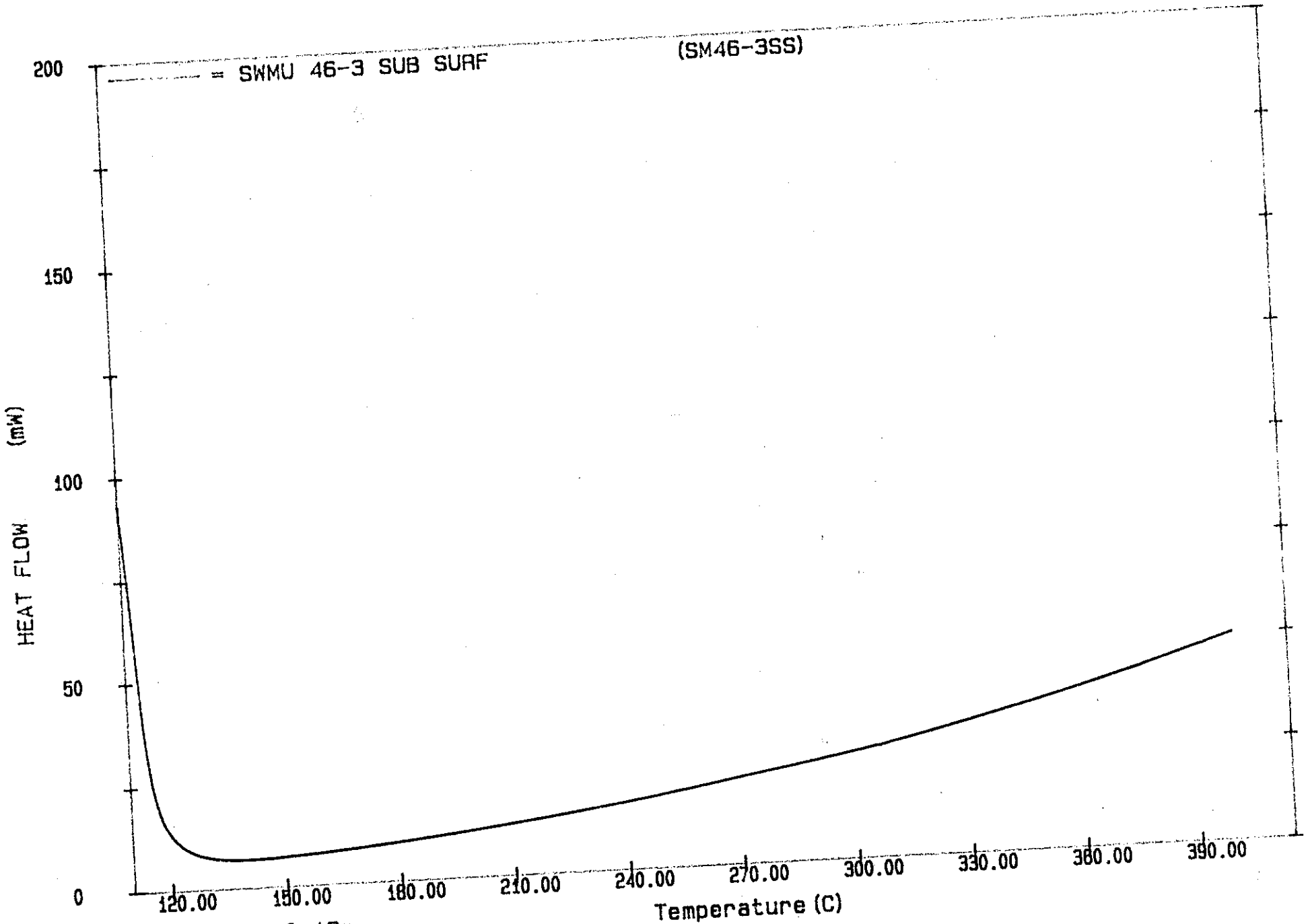
Date: Jul 15, 1996 9:32pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: M46-1SS ST 8-21-96

VNO NOBEL



Date: Jul 15, 1996 9:55pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File 46-2SS ST 8-21-96

E.'NO NOBEL



Date: Jul 15, 1996 10: 16p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: SM46-3SS ST 8-21-96

NYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 46 DATE 8/16/96 SAMPLE NO# SS 1

TESTER Ligon / eock / Schmit

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1.	Comp Neg
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 46 DATE 8/16/96 SAMPLE NO# SS 2

TESTER Ligon / cook / S. Hurst

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1. Comp neg
2.	X	2.	/	2.	2.
3.	X	3.	/	3.	3.
4.	X	4.	/	4.	4.
5.	X	5.	/	5.	5.
6.	X	6.	/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 46 DATE 8/16/96 SAMPLE NO# SS 3

TESTER Ligon / cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1. Comp Neg
2.	X	2.	✓	2.	2.
3.	X	3.	✓	3.	3.
4.	X	4.	✓	4.	4.
5.	X	5.	✓	5.	5.
6.	X	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

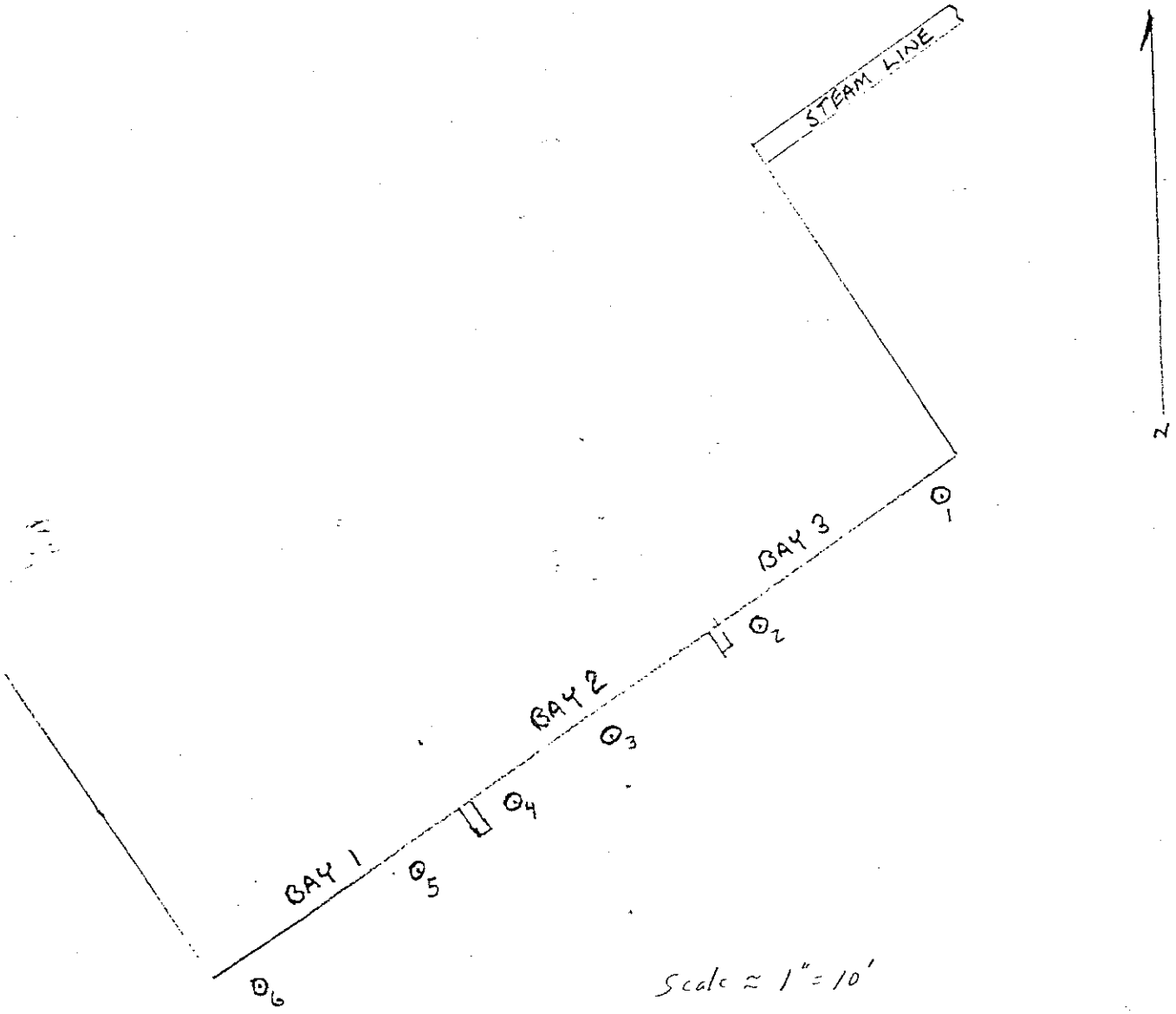
APPENDIX Q

SWMU 47 - LEAD SCRUBBER AND LOADING ROOMS - BUILDING 2058 (QC LAB)

SWMU 47

LEAD SCRUBBER AND LOADING ROOMS LOCATED BEHIND BLDG 2058 (QC LAB)

TOOK 6 SURFACE SAMPLES (0-2") AND 6 SUBSURFACE SAMPLES (2-8").



SUMMARY OF ACTIVITIES FOR SWMU 47

The implementation of the ICM work plan for SWMU 47 consisted of taking surface (0-2") and subsurface (2-8") samples at six locations. All samples were collected behind facility Building 2058 and tested negative for explosives using all three test methods. Surface samples were run as a composite on the calorimeter, subsurface samples were run individually.



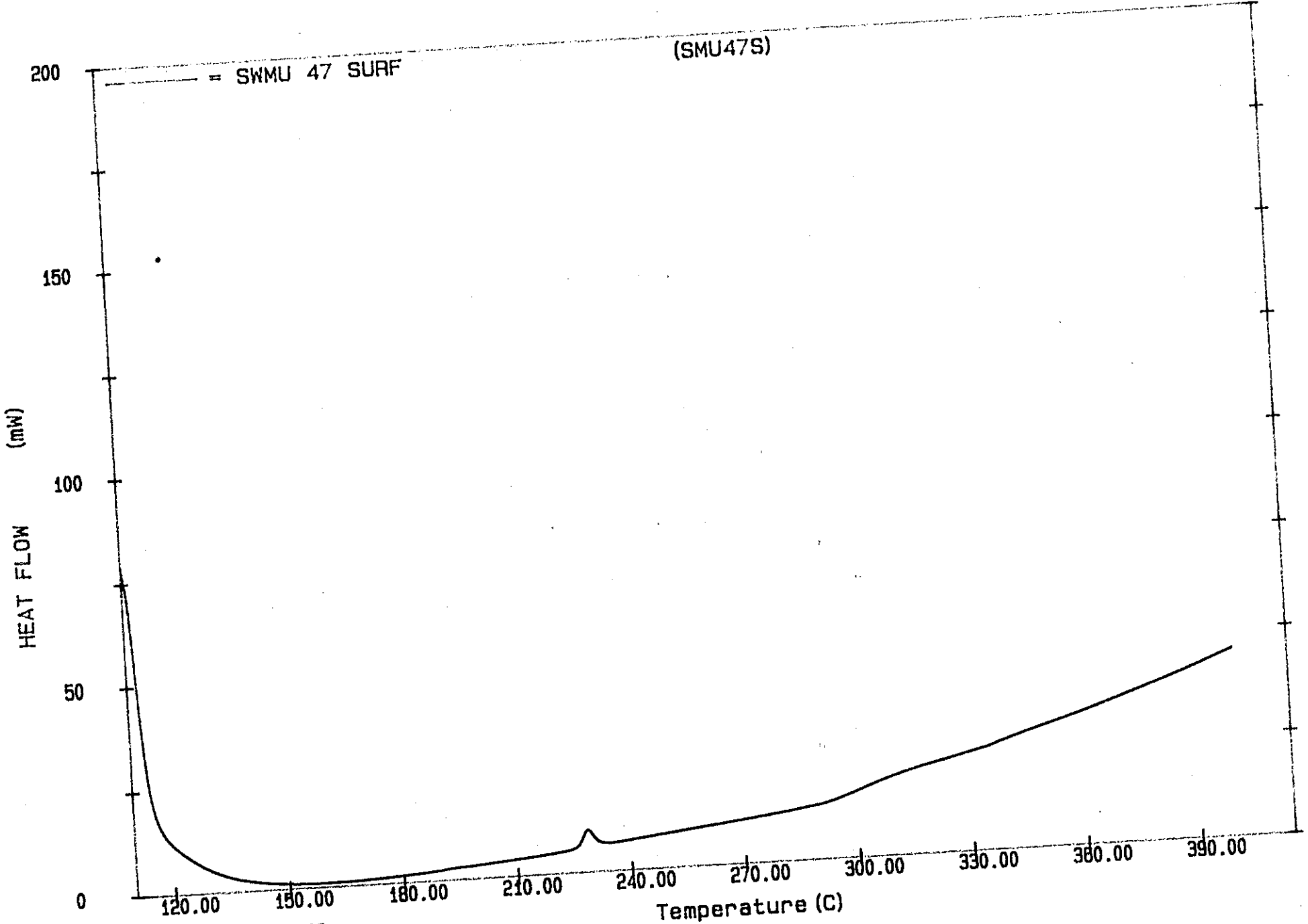
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-16-96	Sump 475	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE		TET=	TETRYL
RDX=		DDNP=	DIAZODINITROPHENOL
PETN=		Y=	YES
LA=	LEAD AZIDE	N=	N0
LS=	LEAD STYPHYNATE		



Date: Jul 14, 1996 6:50pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\

Fi. SMU47S ST 8-16-96

NYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 47 DATE 8/13/96 SAMPLE NO# S1

FRICTION TEST: Reactive

	Yes	No
1.	✓	
2.	✓	
3.	✓	
4.		✓
5.		✓
6.		✓

IMPACT TEST: Reactive

	Yes	No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

DEPTH

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST: Results

comp Neg

TESTER H. THRIFT / LISON / ST

Comments: Dark mark appears to be burn
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 47 DATE 8/13/96 SAMPLE NO# S2

FRICTION TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: Reactive

	Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST: Results

Comp Neg

TESTER H. THRIFT / Lison / ST

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 47 DATE 8/13/94 SAMPLE NO# S3

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	comp neg
2. ✓		2. ✓		2.	2.	
3. ✓		3. ✓		3.	3.	
4. ✓		4. ✓		4.	4.	
5. ✓		5. ✓		5.	5.	
6. ✓		6. ✓		6.	6.	

TESTER ~~EG~~ THRIFT / Gibson / ST

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 47 DATE 8/13/96 SAMPLE NO# 54

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

DEPTH

1._____ 1.

2._____ 2.

3._____ 3.

4._____ 4.

5._____ 5.

6._____ 6.

CALORIMETRIC TEST:
Results

Comp Neg

TESTER N. THRIFT / Lisom / ST

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 47 DATE 8/13/96 SAMPLE NO# S 5

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Comp Neg
2. ✓		2. ✓		2.	2.	
3. ✓		3. ✓		3.	3.	
4. ✓		4. ✓		4.	4.	
5. ✓		5. ✓		5.	5.	
6. ✓		6. ✓		6.	6.	

TESTER H. THRIFT / Lisom / S Tuff

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 43 DATE 8/13/96 SAMPLE NO# SC

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Comp Neg

TESTER H. THRIFT / Lisa / Staff

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

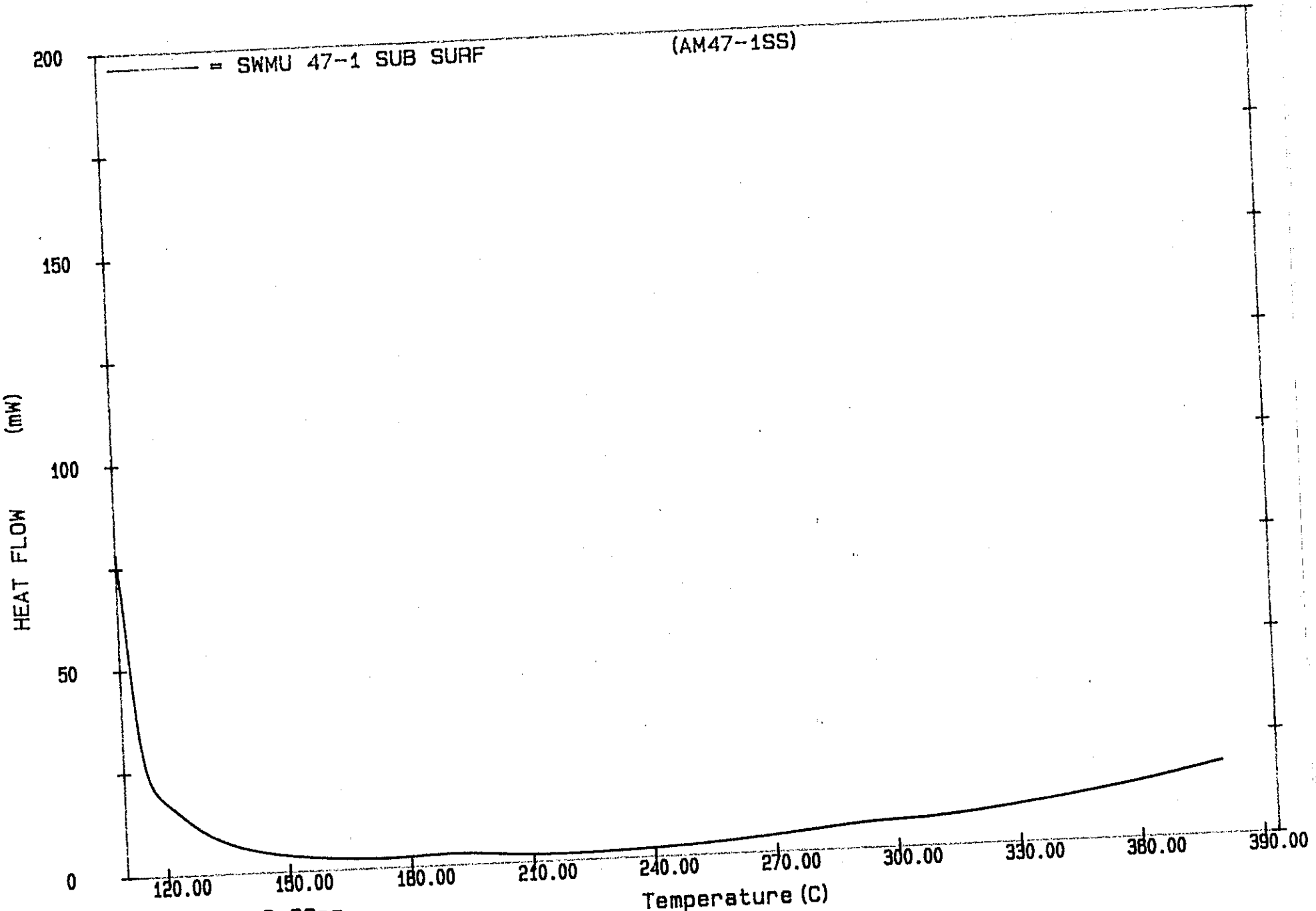
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-19-96	SMU 4755							
	47-1	N	N	N	N	N	N	N
	47-2	N	N	N	N	N	N	N
	47-3	N	N	N	N	N	N	N
	47-4	N	N	N	N	N	N	N
8-20-96	47-5	N	N	N	N	N	N	N
	47-6	N	N	N				

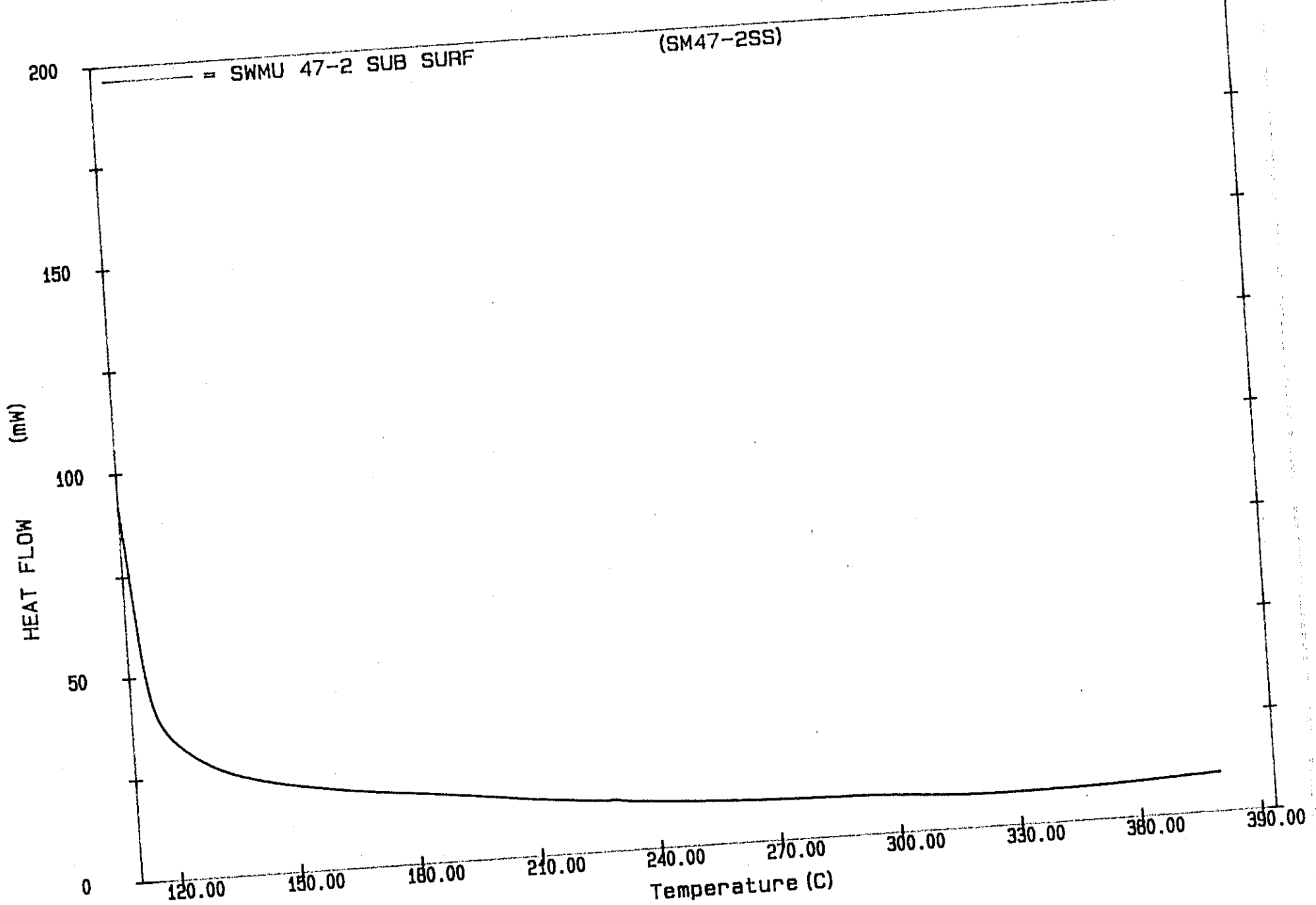
LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 13, 1996 9:39pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: AM47-1SS ST 8-19-96

YNO NOBEL



Date: Jul 13, 1996 10:01p
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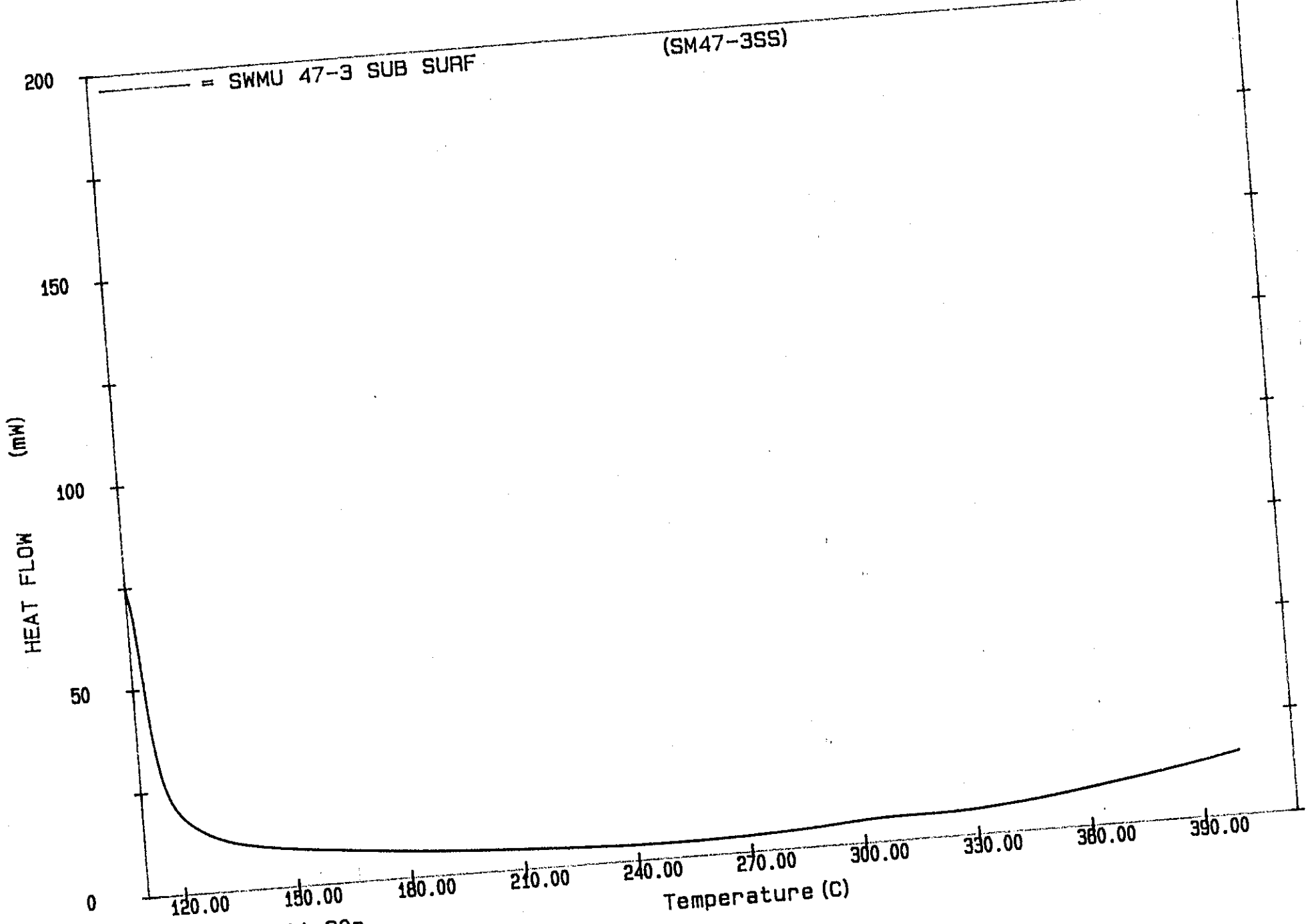
Sample Wt: 0.000 mg Path: UXB\
F11 SM47-2SS ST 8-19-96

TYNO NOBEL



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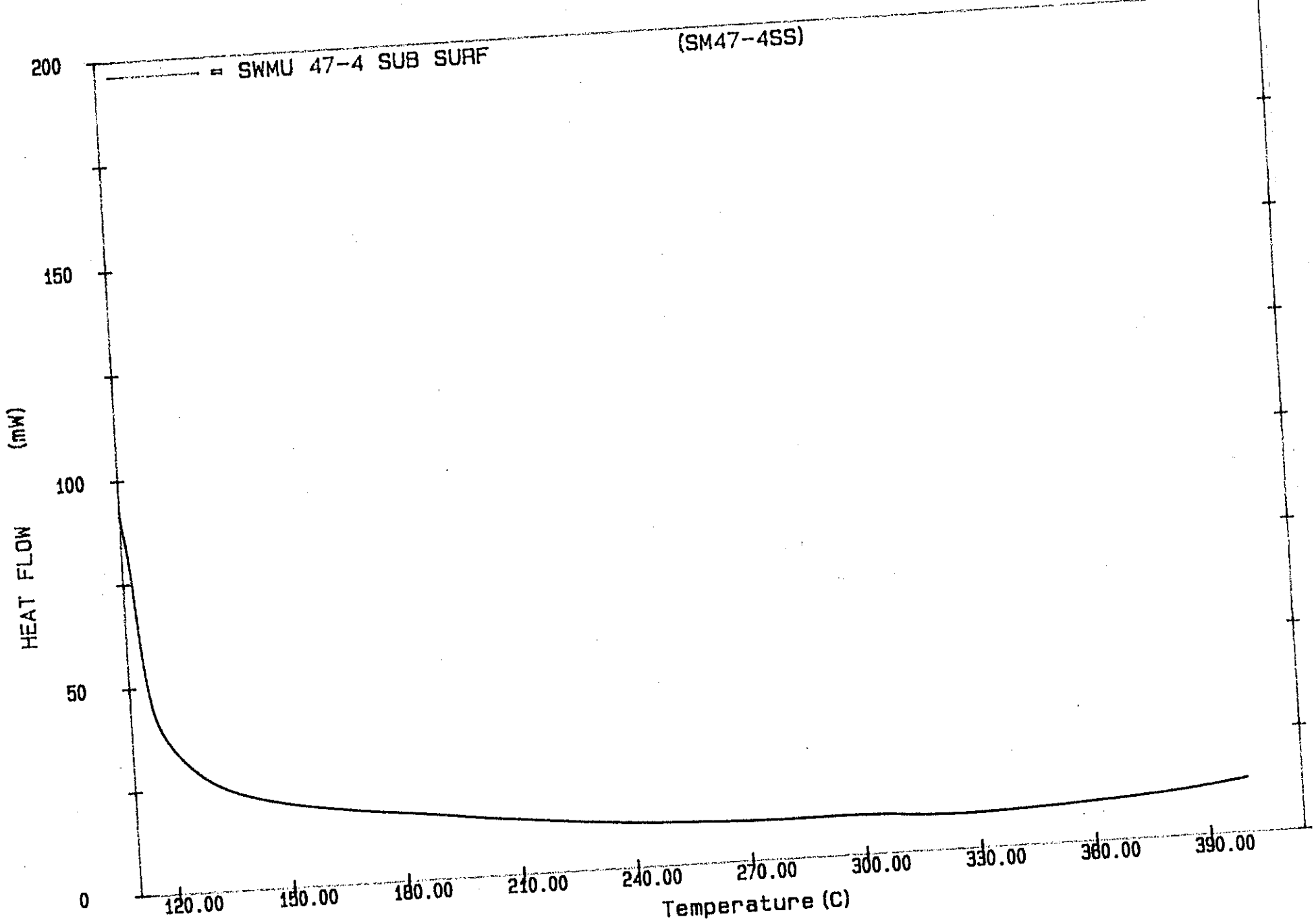
Sample Wt: 0.000 mg Path: UXB\
File: SM47-3SS ST 8-19-96

DYNO NOBEL



Date: Jul 14, 1996 00: 12am
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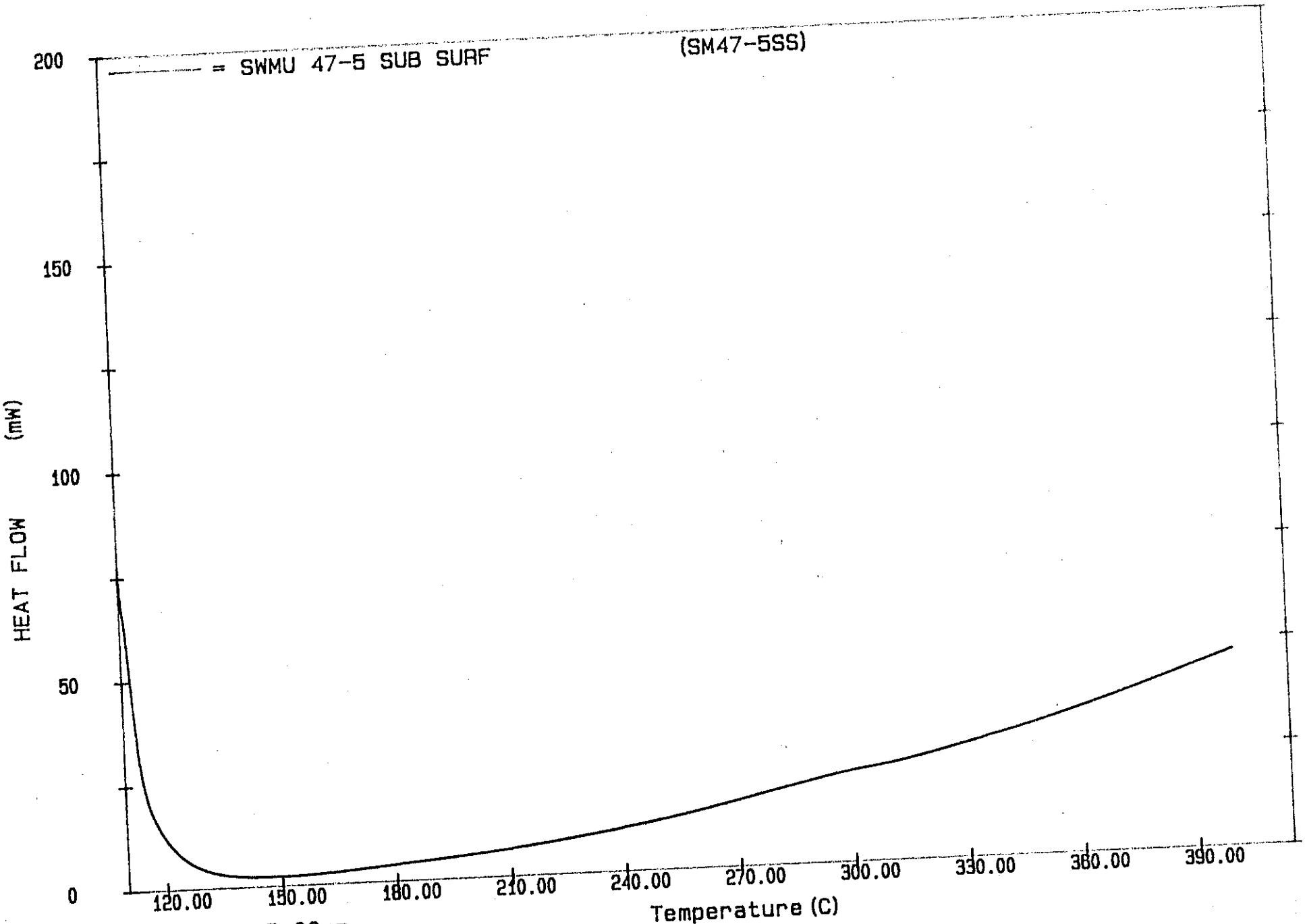
Sample Wt: 0.000 mg Path: UXB\
F1 1: SM47-4SS ST 8-19-96

DYNO NOBEL



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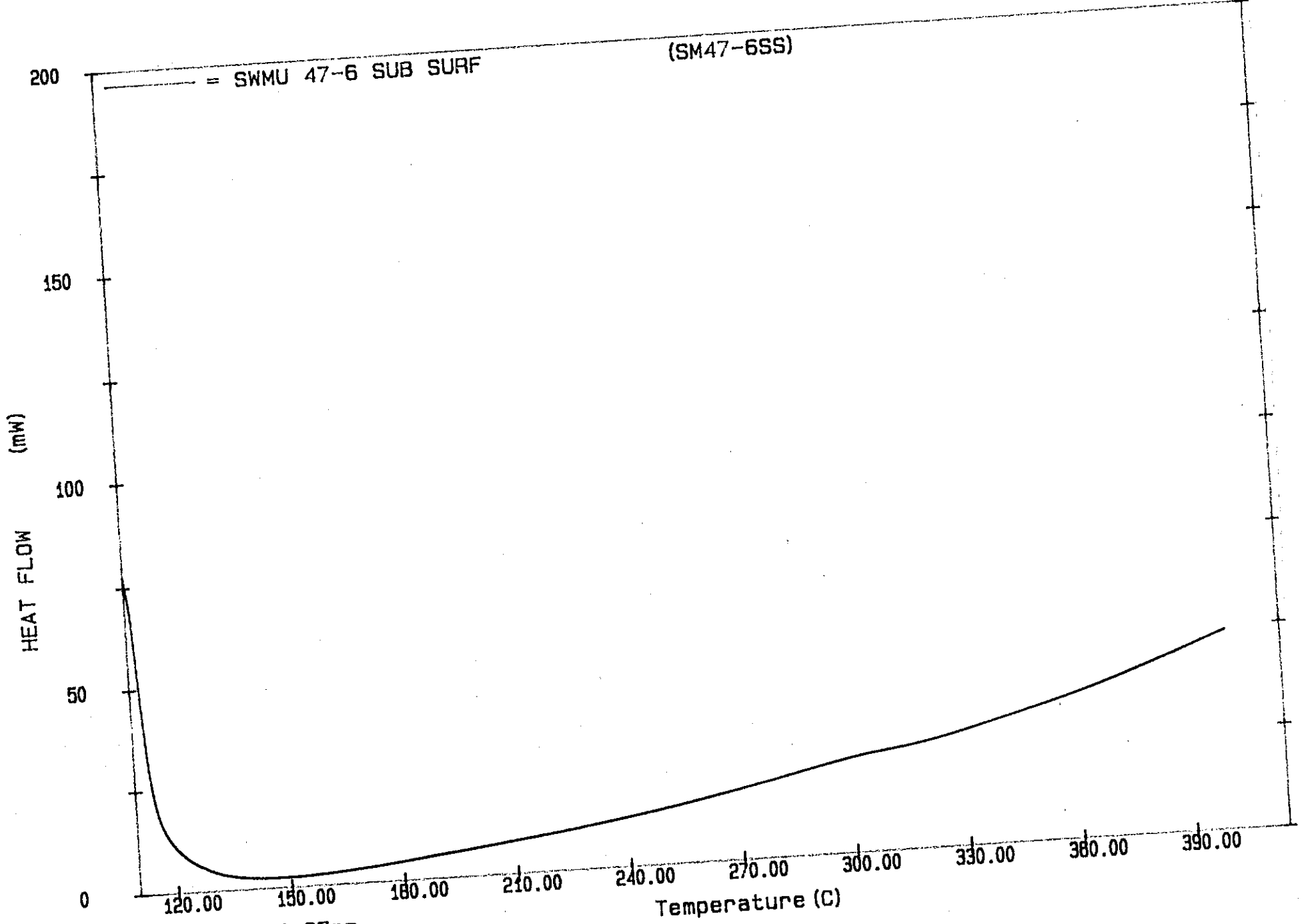
Sample Wt: 0.000 mg Path: UXB\
F 1: SM47-5SS ST 8-20-96

DYNO NOBEL



Date: Jul 14, 1996 6:25pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: 1: SM47-6SS ST 8-20-96

DYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 417 DATE 8/15/96 SAMPLE NO# SS 2

TESTER LIGON/COOK / S Shirt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.
2.	X	2.	X	2.	2.
3.	X	3.	X	3.	3.
4.	X	4.	X	4.	4.
5.	X	5.	X	5.	5.
6.	X	6.	X	6.	6.

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 47 DATE 8/15/96 SAMPLE NO# SS 3

TESTER Lloyd / Cook / S Shrynt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1. Neg
2.	X	2.	X	2.	2.
3.	X	3.	X	3.	3.
4.	X	4.	X	4.	4.
5.	X	5.	X	5.	5.
6.	X	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 17 DATE 8/15/96 SAMPLE NO# SS 4

TESTER Allen / Cook / D Hunt

FRICTION TEST: / IMPACT TEST: / DEPTH

CALORIMETRIC TEST:
Results
Neg

	Reactive Yes	Reactive No			
1.		X	1.	1.	1.
2.		X	2.	2.	2.
3.		X	3.	3.	3.
4.		X	4.	4.	4.
5.		X	5.	5.	5.
6.		X	6.	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 47 DATE 8/15/96 SAMPLE NO# SS 5

TESTER Ligon / cook / S Shrit

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	X	1.	Neg
2.	X	2.	X	2.	
3.	X	3.	X	3.	
4.	X	4.	X	4.	
5.	X	5.	X	5.	
6.	X	6.	X	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 47 DATE 8/15/96 SAMPLE NO# SS 6

TESTER L/Gow/Cook / S Shryt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

APPENDIX R

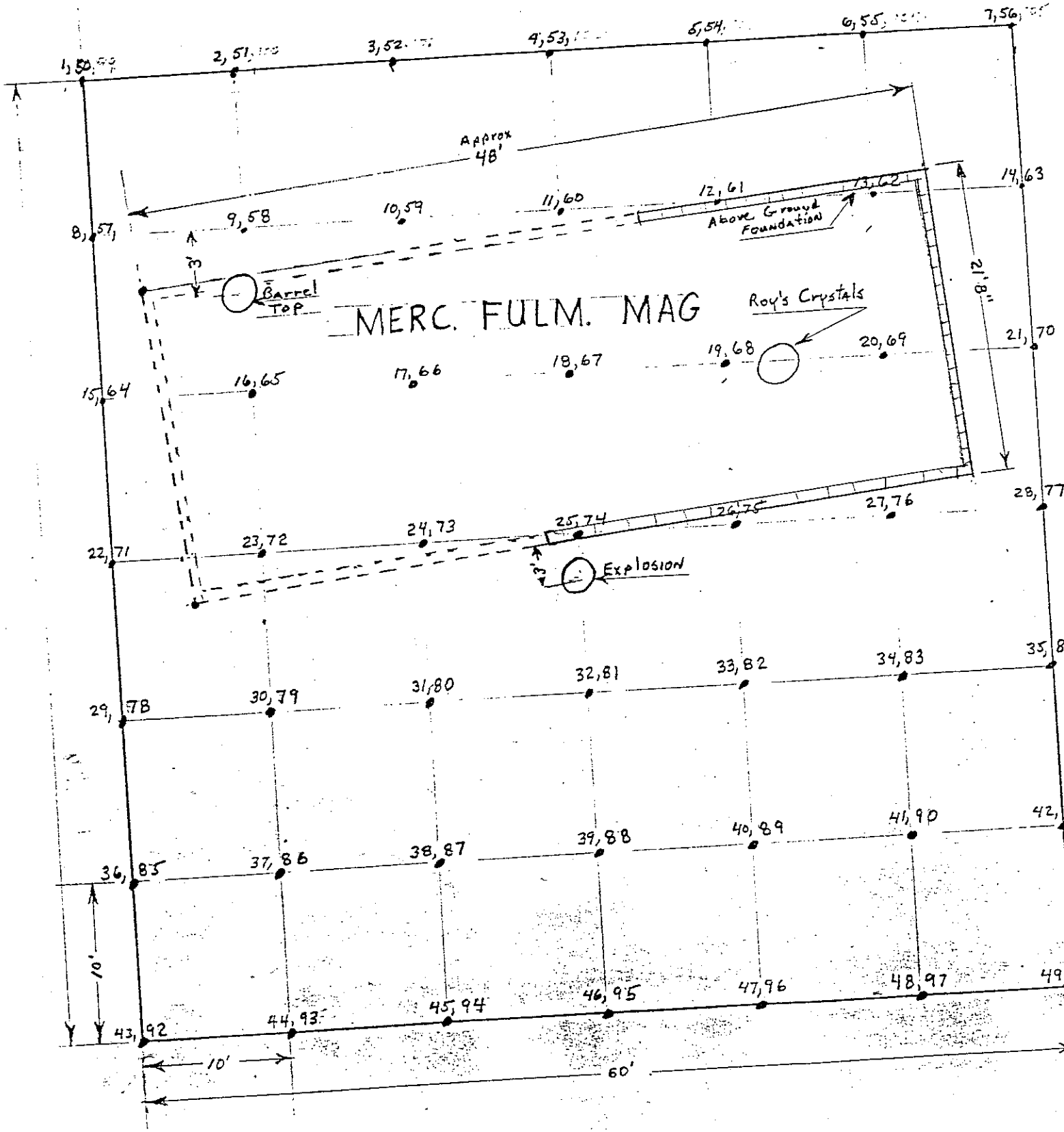
SWMU 48 - FULMINATE MERCURY SITE

SWMU 48

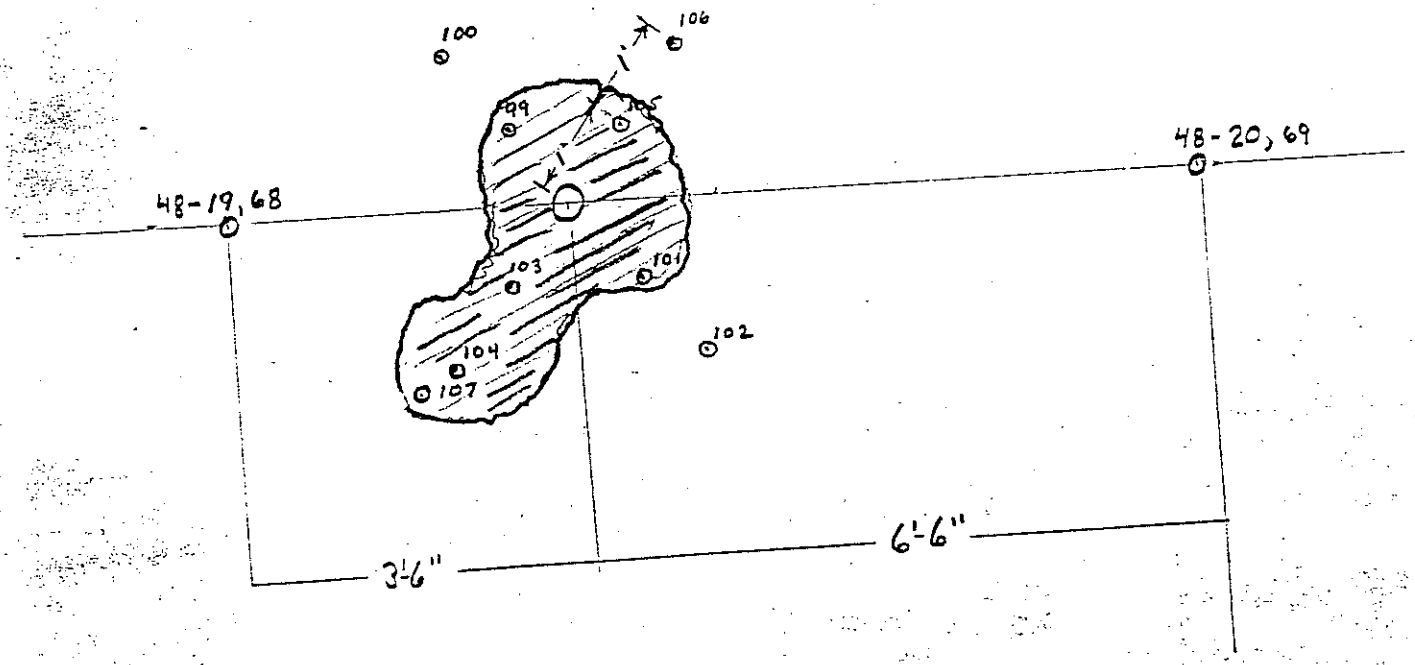
MERCURY FULMINATE AREA, CONSISTS OF A 97' BY 93' AREA LOCATED SOUTH OF MAGAZINE F NEAR THE BASE OF HUSSEY HILL. (See drawings on following pages.)

SWMU 48 60' x 60'

SAMPLING PLAN

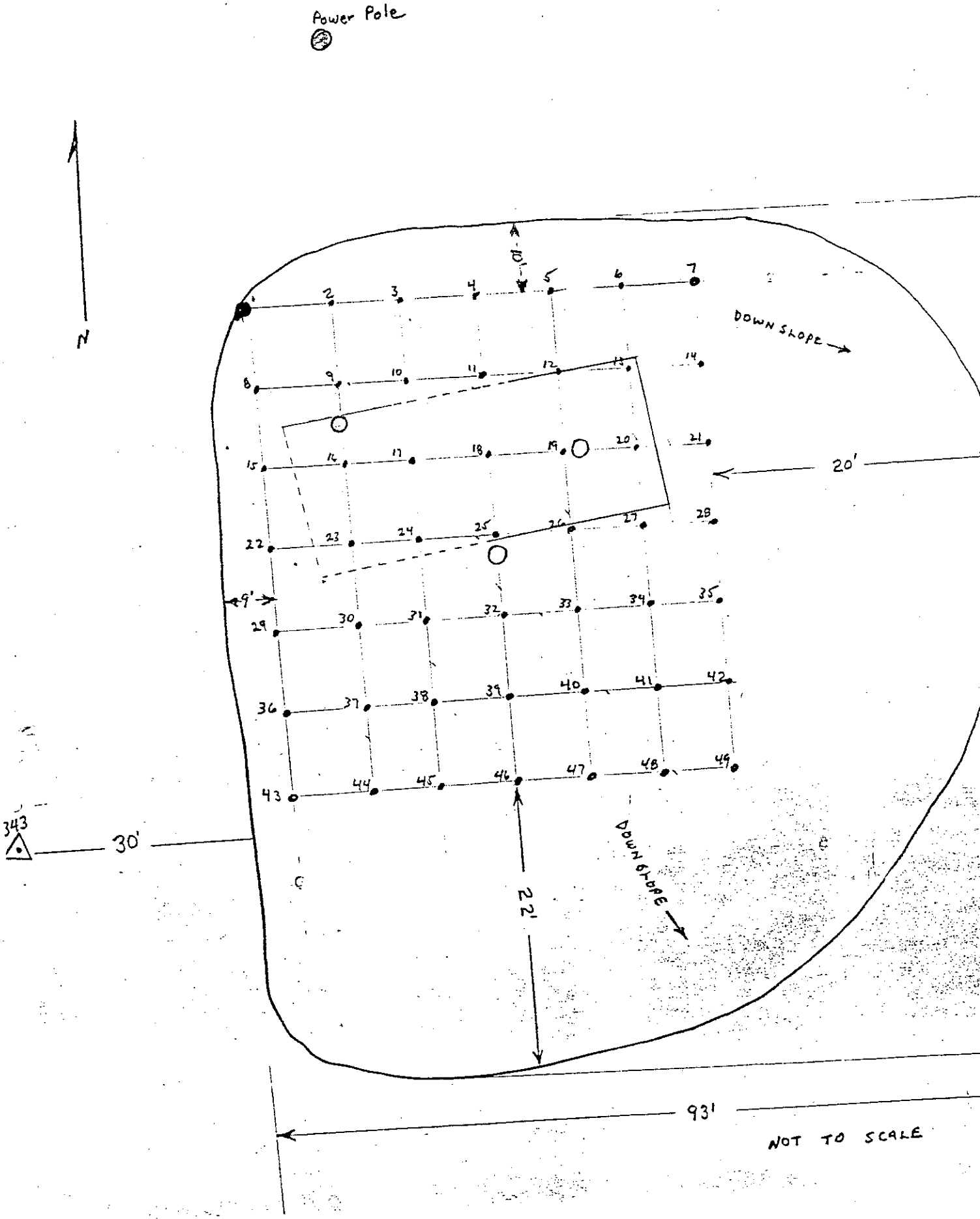


SWMU 48
ROY'S CRYSTALS

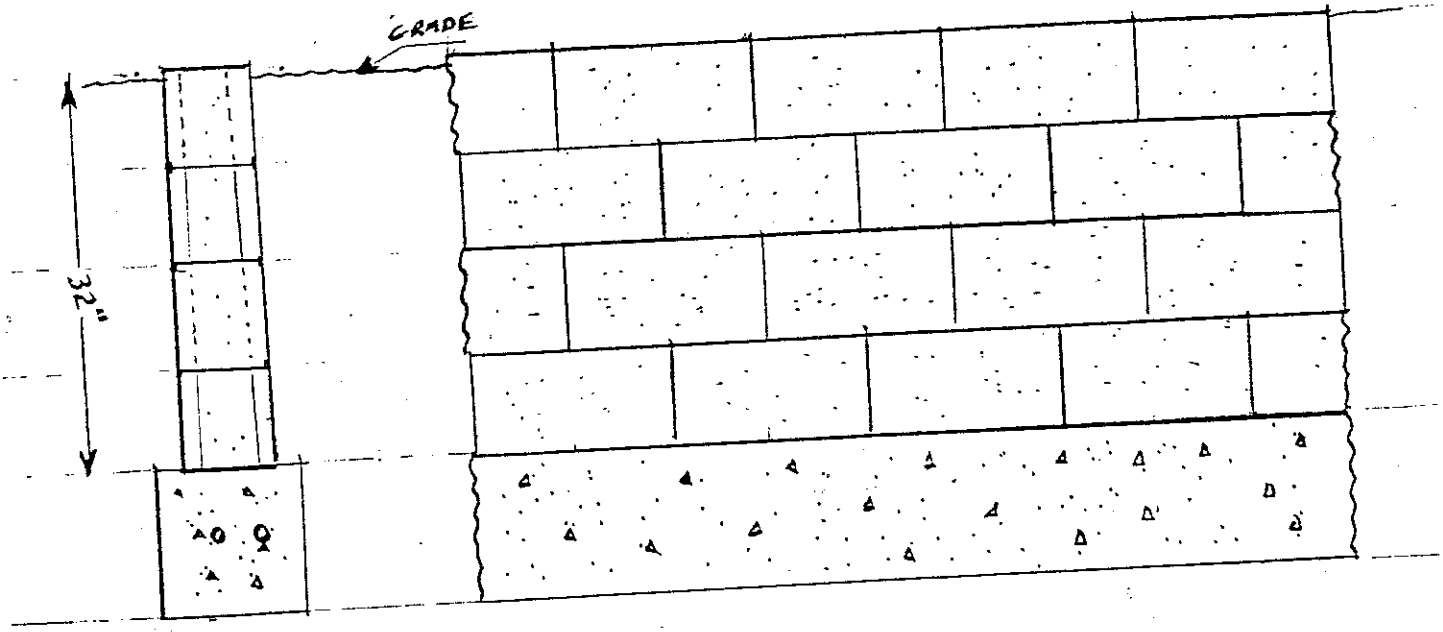


MAG

SWMU 48


Power Pole
N
10'
DOWN SLOPE
20'
9'
343
30'
22'
DOWN SLOPE
93'
NOT TO SCALE

SWMU 48 FOUNDATION PLAN



Shoveled down to top of footer

Took samples to 18"

SUMMARY OF ACTIVITIES FOR SWMU 48

SWMU 48 consists of an area that was once occupied by a Mercury Fulminate magazine and was the site of a small explosion during the summer of 1995. Fill was pushed into the area and is believed to extend to a depth of approximately 32", which is consistent with the depth of the foundation footer. Implementation of the ICM Work Plan began by clearing brush from the area and conducting a visual search. The area was then divided into grids and 49 surface (0-2") samples were collected. Samples were also collected around the vicinity of the 1995 explosion, beneath an old barrel lid found within the area, and of crystals that were identified in the area by a Dyno-Nobel employee. The surface samples collected at locations 1 through 49, and in the vicinity of the 1995 explosion all tested negative for explosives using all three test methods. Samples collected from under the barrel lid tested negative for friction and impact but positive for Mercury Fulminate using the Calorimeter. The crystals were positive for explosives using all three test methods.

The crystals and surrounding soil, as well as soil from under the barrel lid, were excavated, mixed with inert material, and placed in 5 gallon pails for disposal. With the exception of one sample (104), subsequent sampling (sample numbers 99 through 106) tested negative for explosives using all three test methods. Calorimeter testing of sample 104, collected in the vicinity of the observed crystals, indicated the presence of trace levels of DDNP (diazodinitrophenol). This area was excavated further and re-tested with negative results.

Sampling activities continued by collecting subsurface (8 -12") samples at locations 1 through 49. Further, given that the area was comprised of fill material, an additional round of samples (number 49 through 98) were collected at a depth of 18" below ground surface. All test results were negative. All samples collected at SWMU 48 were run individually on the calorimeter.





UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-4-96	SWM485							
	1	N	N	N	N	N	N	N
9-5-96	2	N	N	N	N	N	N	N
	3	N	N	N	N	N	N	N
	4	N	N	N	N	N	N	N
	5	N	N	N	N	N	N	N
	6	N	N	N	N	N	N	N
	7	N	N	N	N	N	N	N
	8	N	N	N	N	N	N	N
	9	N	N	N	N	N	N	N
	10	N	N	N	N	N	N	N
	11	N	N	N	N	N	N	N
	12	N	N	N	N	N	N	N
	13	N	N	N	N	N	N	N
	14	N	N	N	N	N	N	N
	15	N	N	N	N	N	N	N
	16	N	N	N	N	N	N	N
	17	N	N	N	N	N	N	N
	18	N	N	N	N	N	N	N
	19	N	N	N	N	N	N	N
	20	N	N	N	N	N	N	N
9-5-96	21	N	N	N	N	N	N	N
	22	N	N	N	N	N	N	N
	23	N	N	N	N	N	N	N
	24	N	N	N	N	N	N	N
	25	N	N	N	N	N	N	N
	26	N	N	N	N	N	N	N
	27	N	N	N	N	N	N	N
	28	N	N	N	N	N	N	N
	29	N	N	N	N	N	N	N
	30	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0

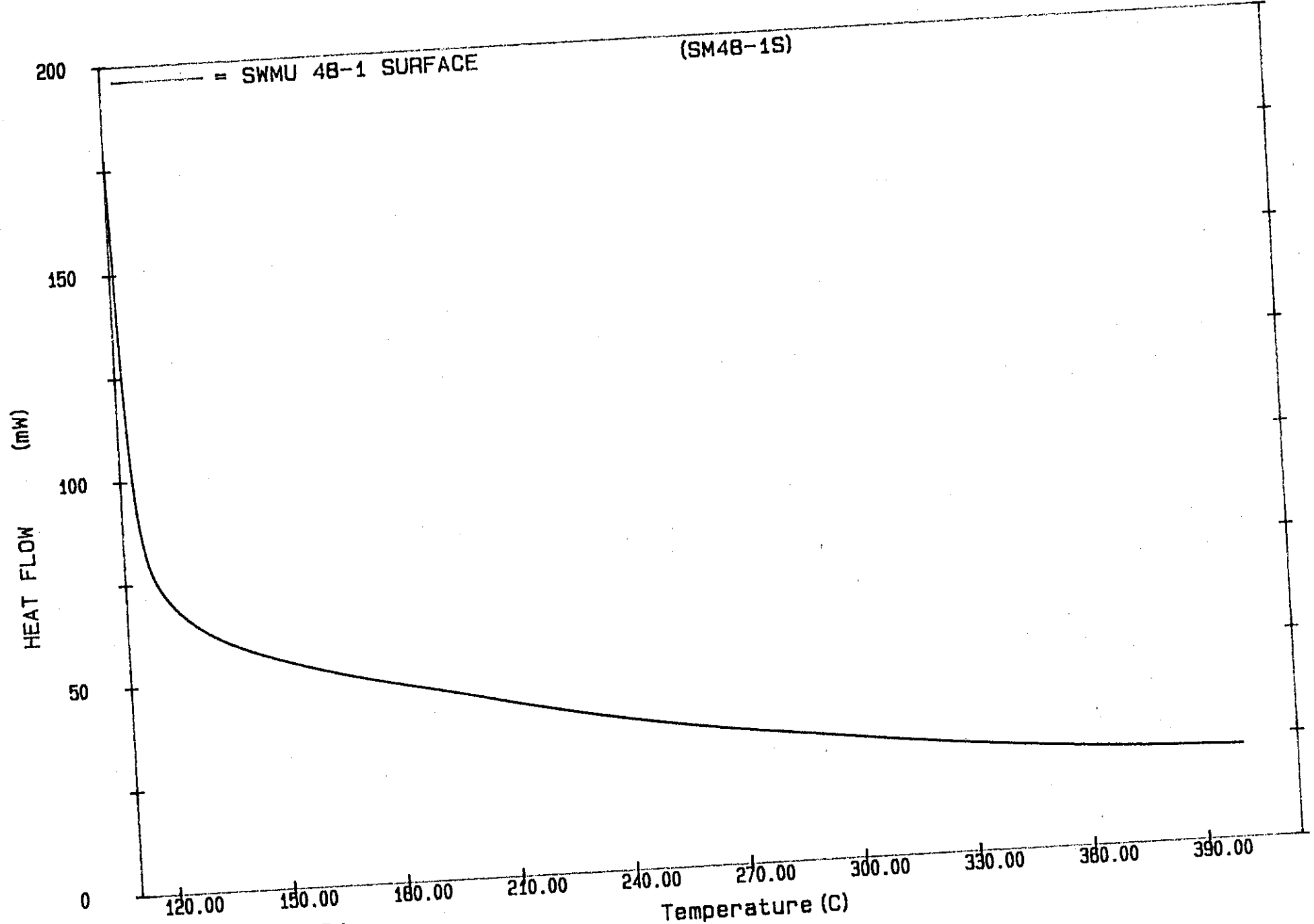
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-8-96	SWMU 48S							
	31	N	N	N	N	N	N	N
	32	N	N	N	N	N	N	N
	33	N	N	N	N	N	N	N
	34	N	N	N	N	N	N	N
	35	N	N	N	N	N	N	N
	36	N	N	N	N	N	N	N
	37	N	N	N	N	N	N	N
	38	N	N	N	N	N	N	N
	39	N	N	N	N	N	N	N
	40	N	N	N	N	N	N	N
	41	N	N	N	N	N	N	N
	42	N	N	N	N	N	N	N
	43	N	N	N	N	N	N	N
	44	N	N	N	N	N	N	N
	45	N	N	N	N	N	N	N
	46	N	N	N	N	N	N	N
	47	N	N	N	N	N	N	N
	48	N	N	N	N	N	N	N
	49	N	N	N				

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



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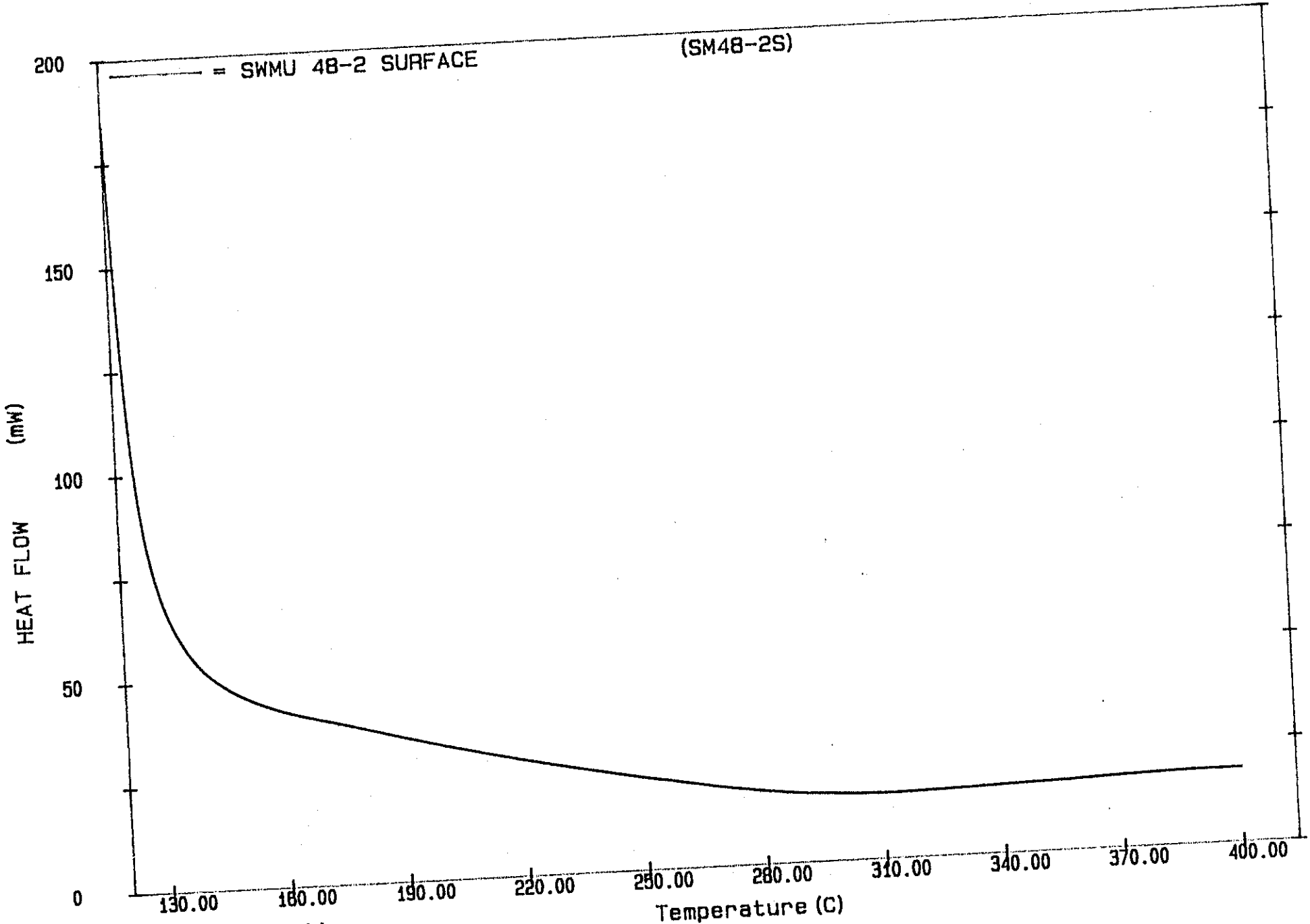
Sample Wt: 0.000 mg Path: C:\PE\
Fi. SM48-1S ST 9-4-96

PERKIN-ELMER DSC7



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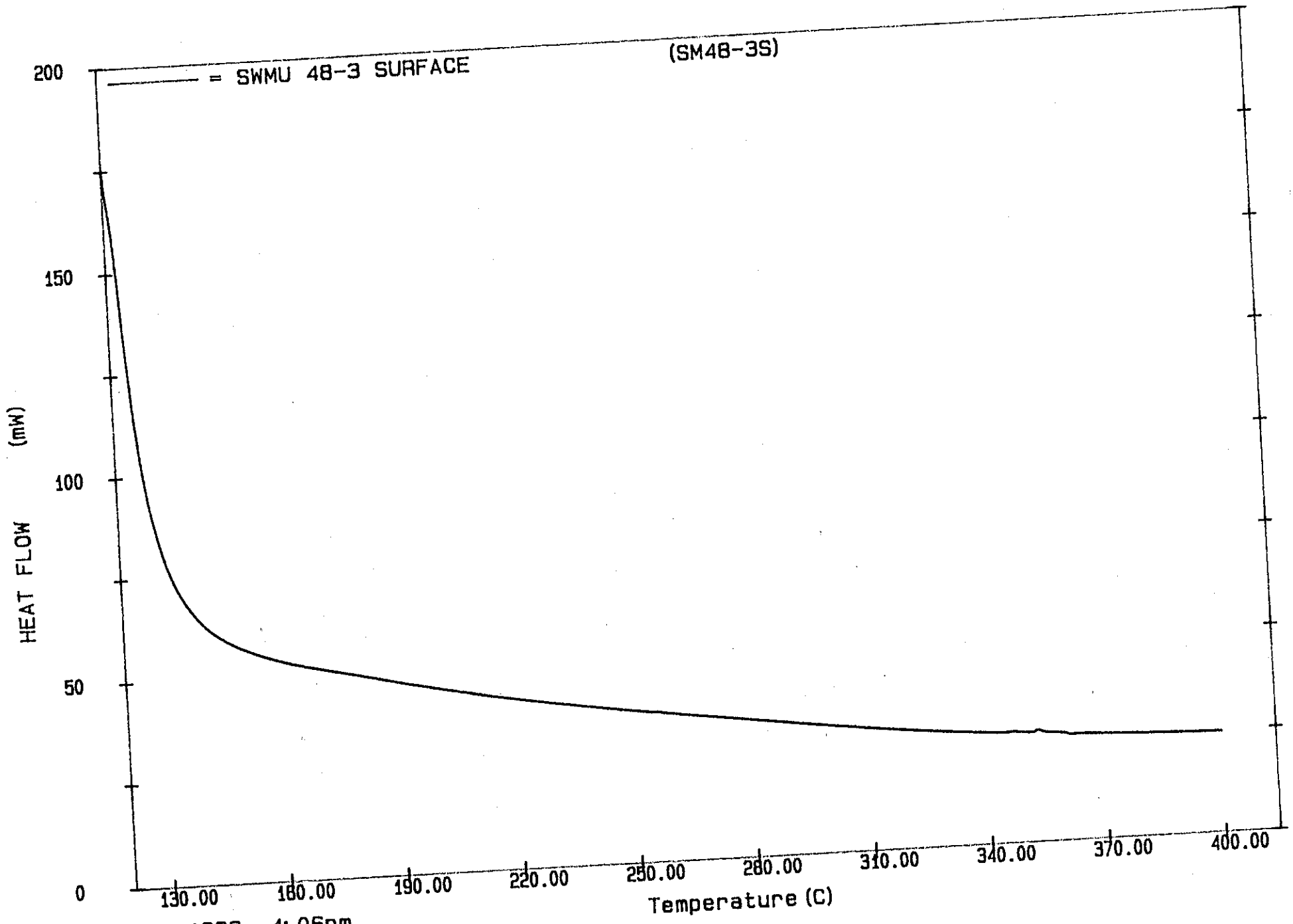
PERKIN-ELMER DSC7



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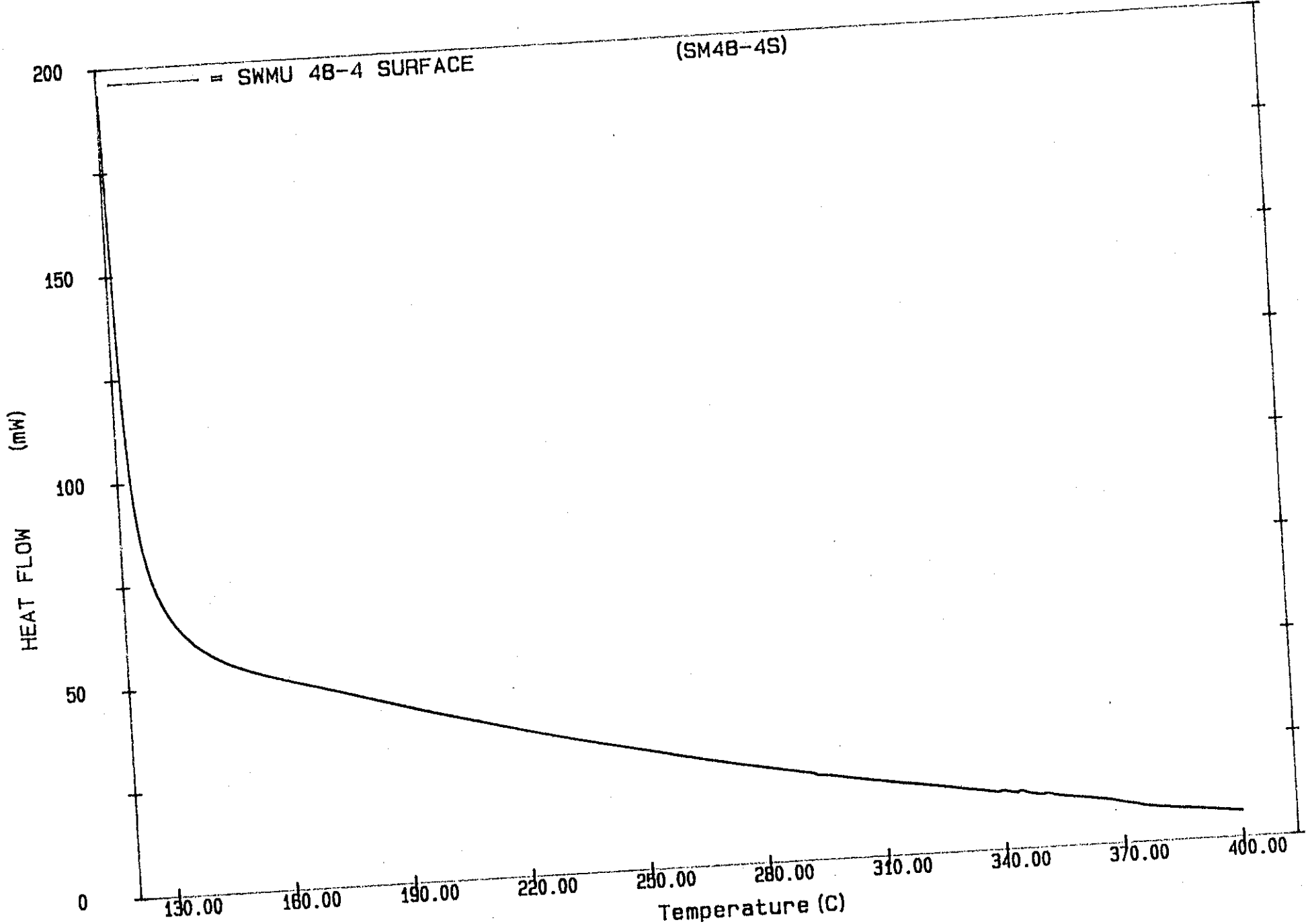
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-3S ST 9-5-96

PERKIN-ELMER DSC7



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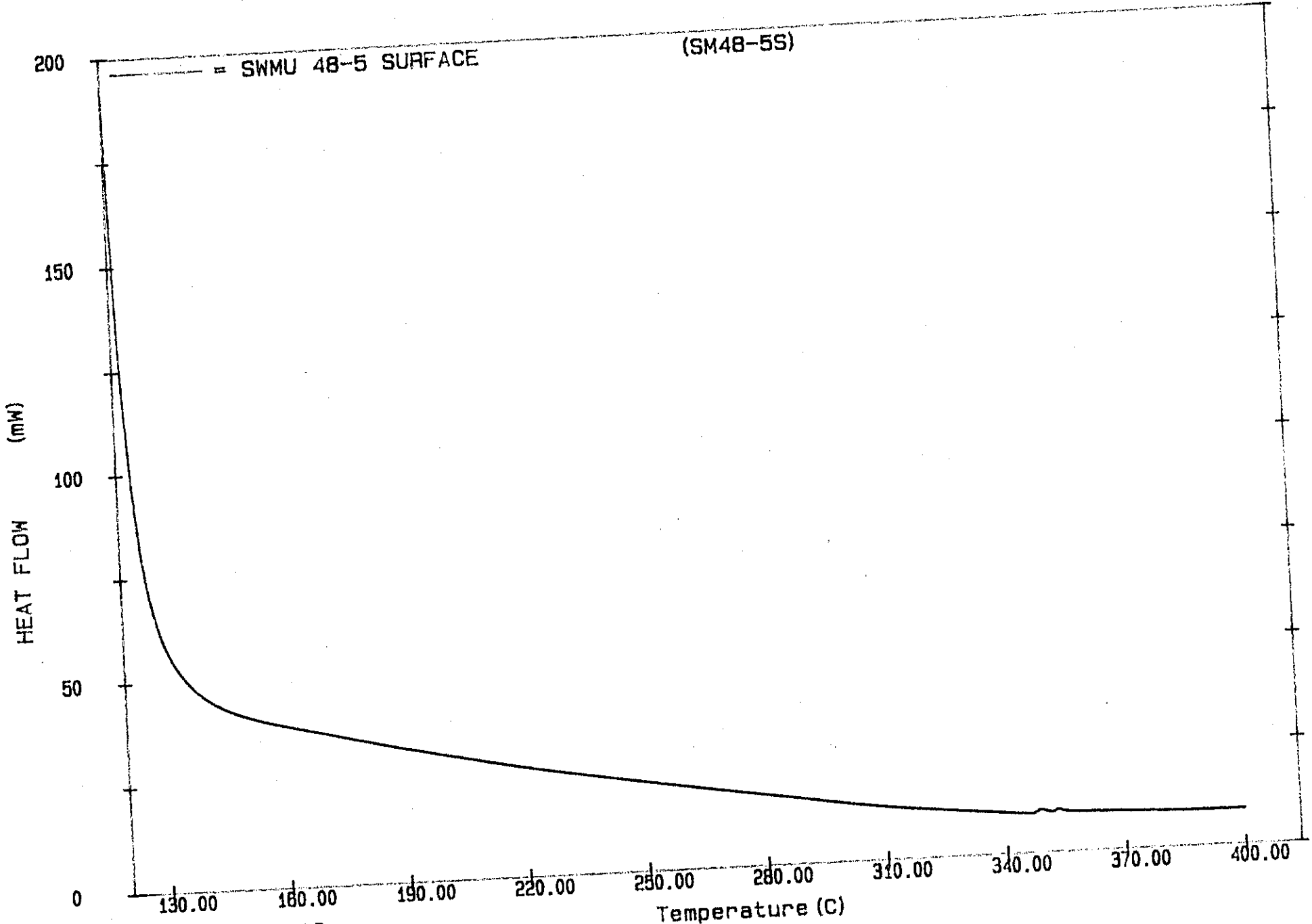
File: SM4B-4S ST 9-5-96

PERKIN-ELMER DSC7



Date: Jul 30, 1996 5: 19pm
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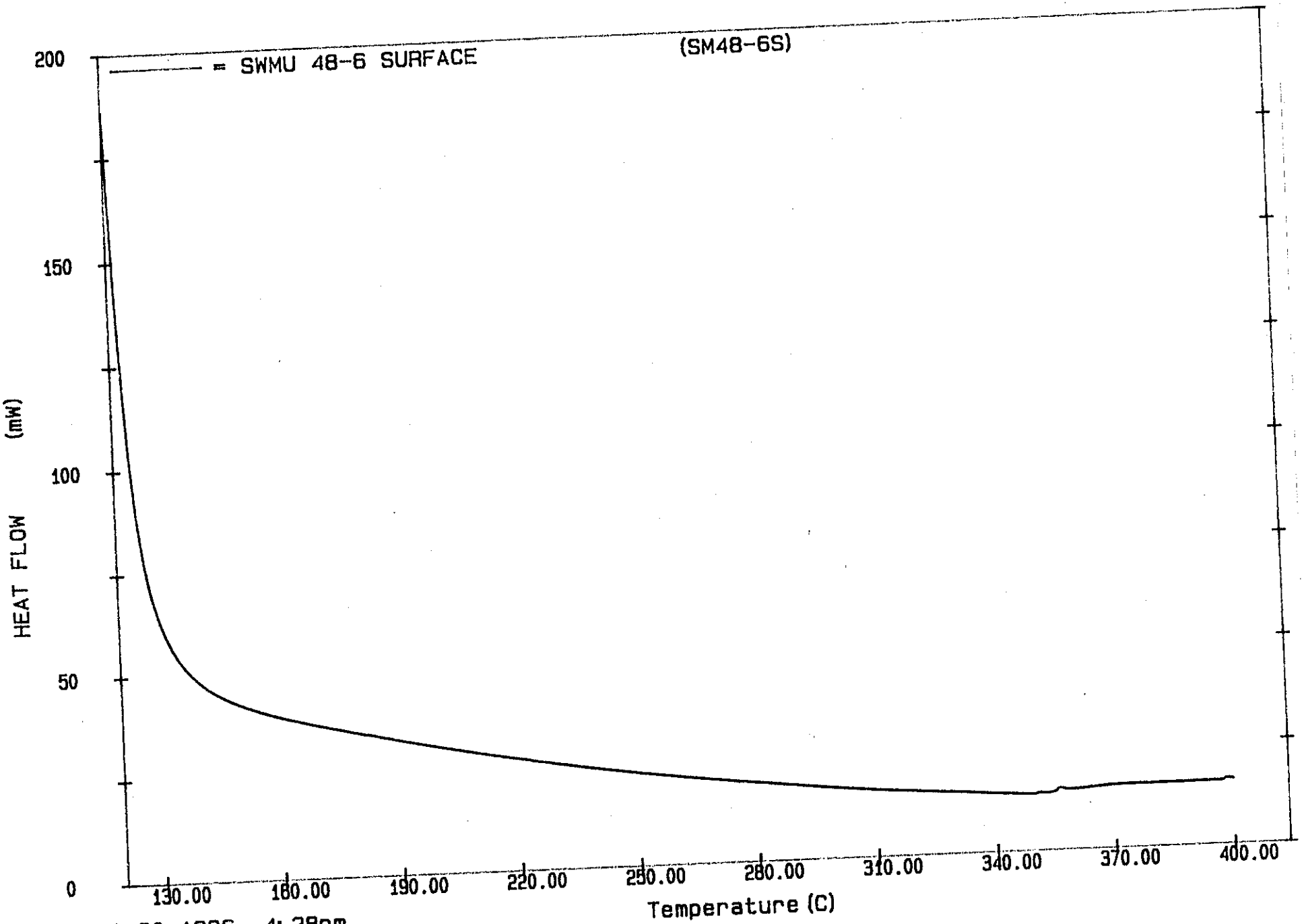
File SM48-5S ST 9-5-96

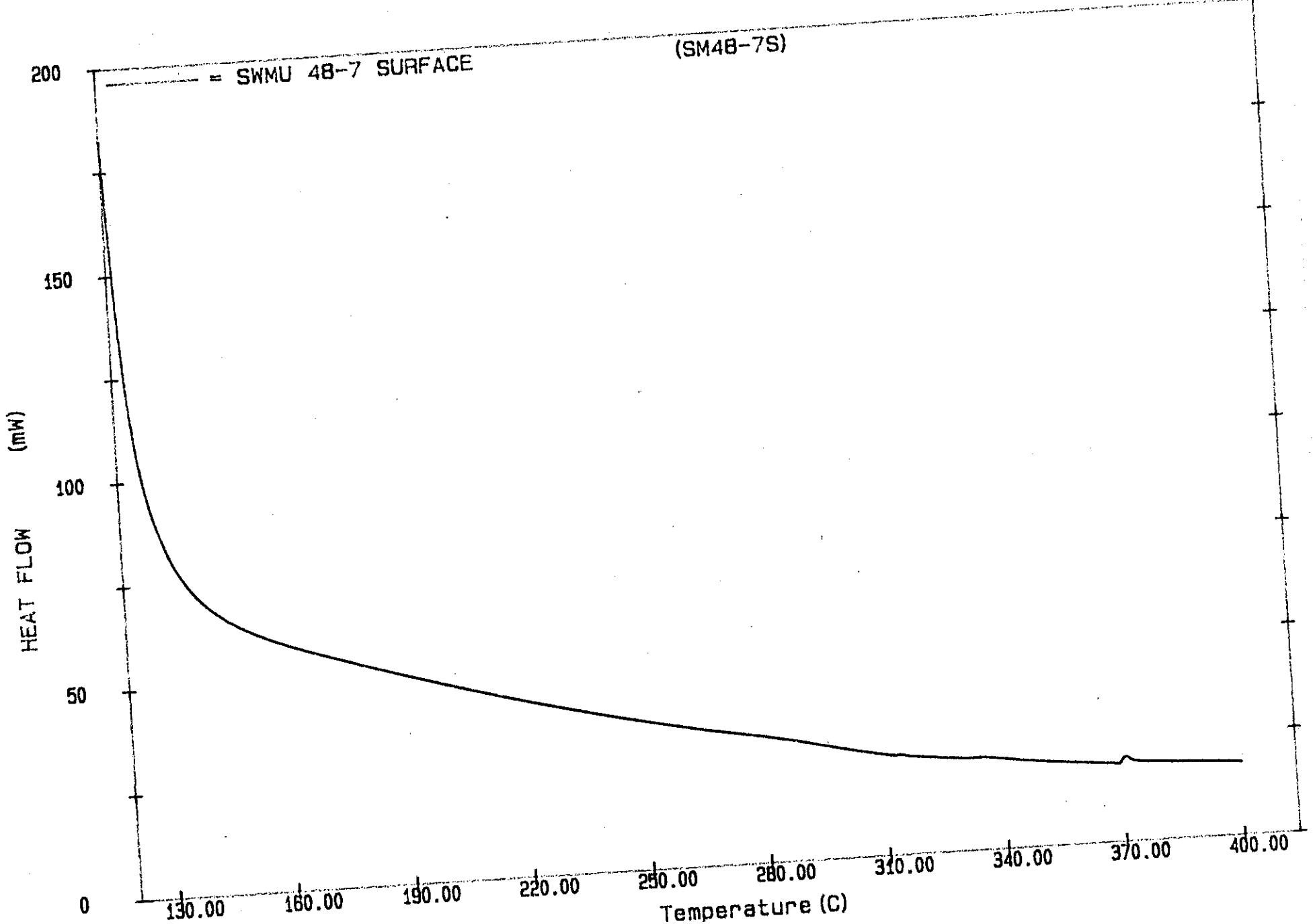
PERKIN-ELMER DSC7



Date: Jul 30, 1996 4:28pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-6S ST 9-5-96

PE IN-ELMER DSC7

(SM48-7S)



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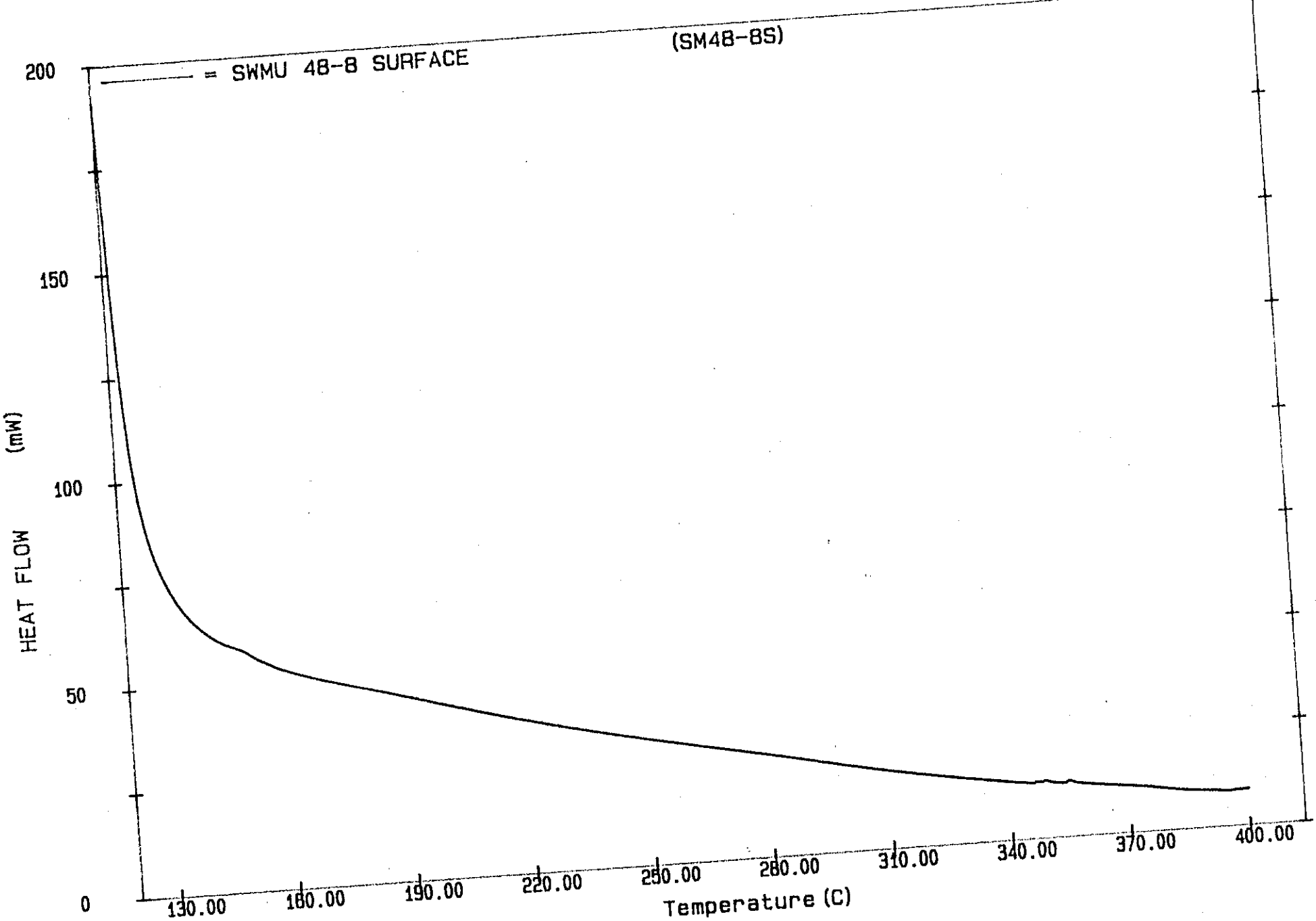
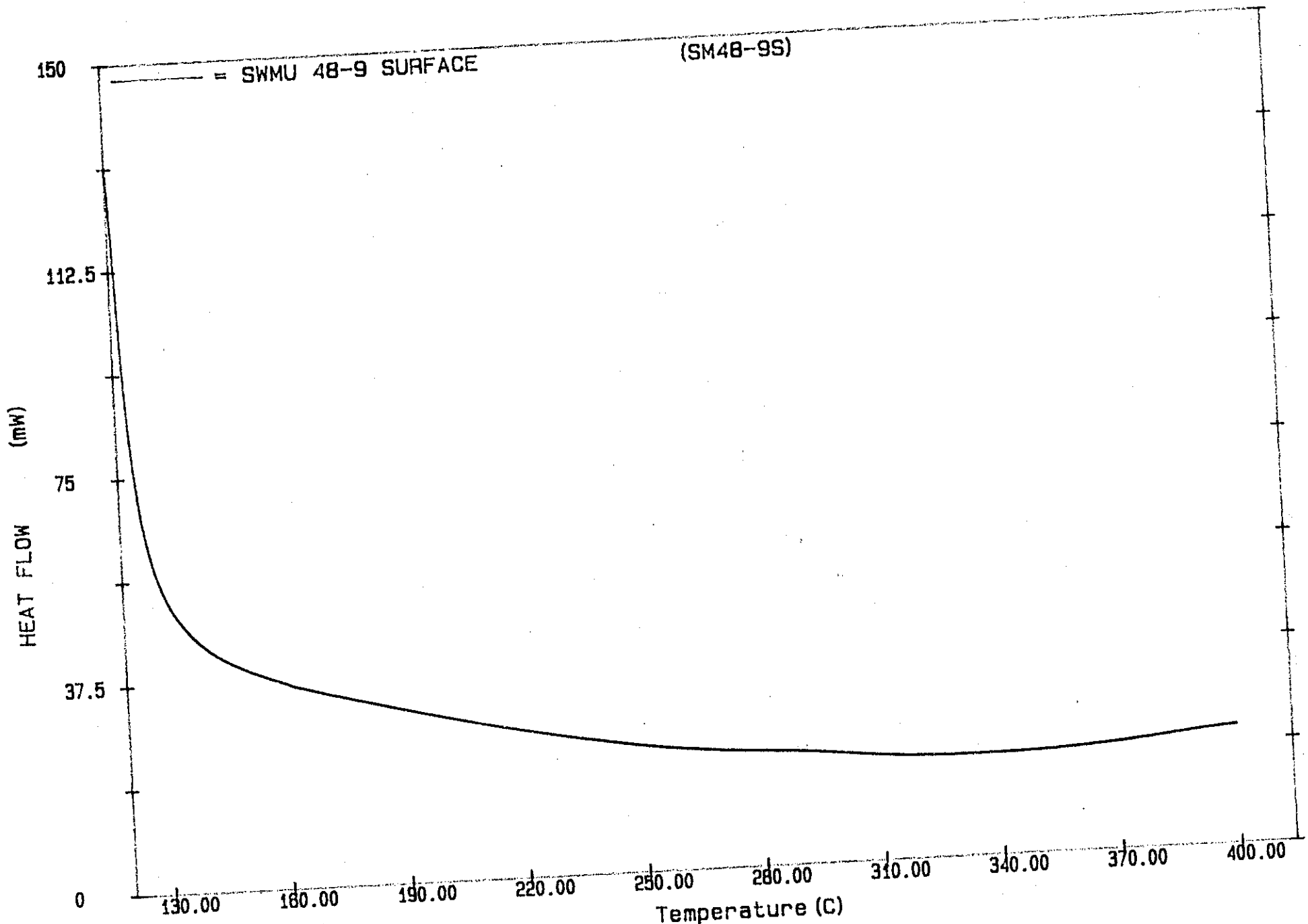
PERKIN-ELMER DSC7



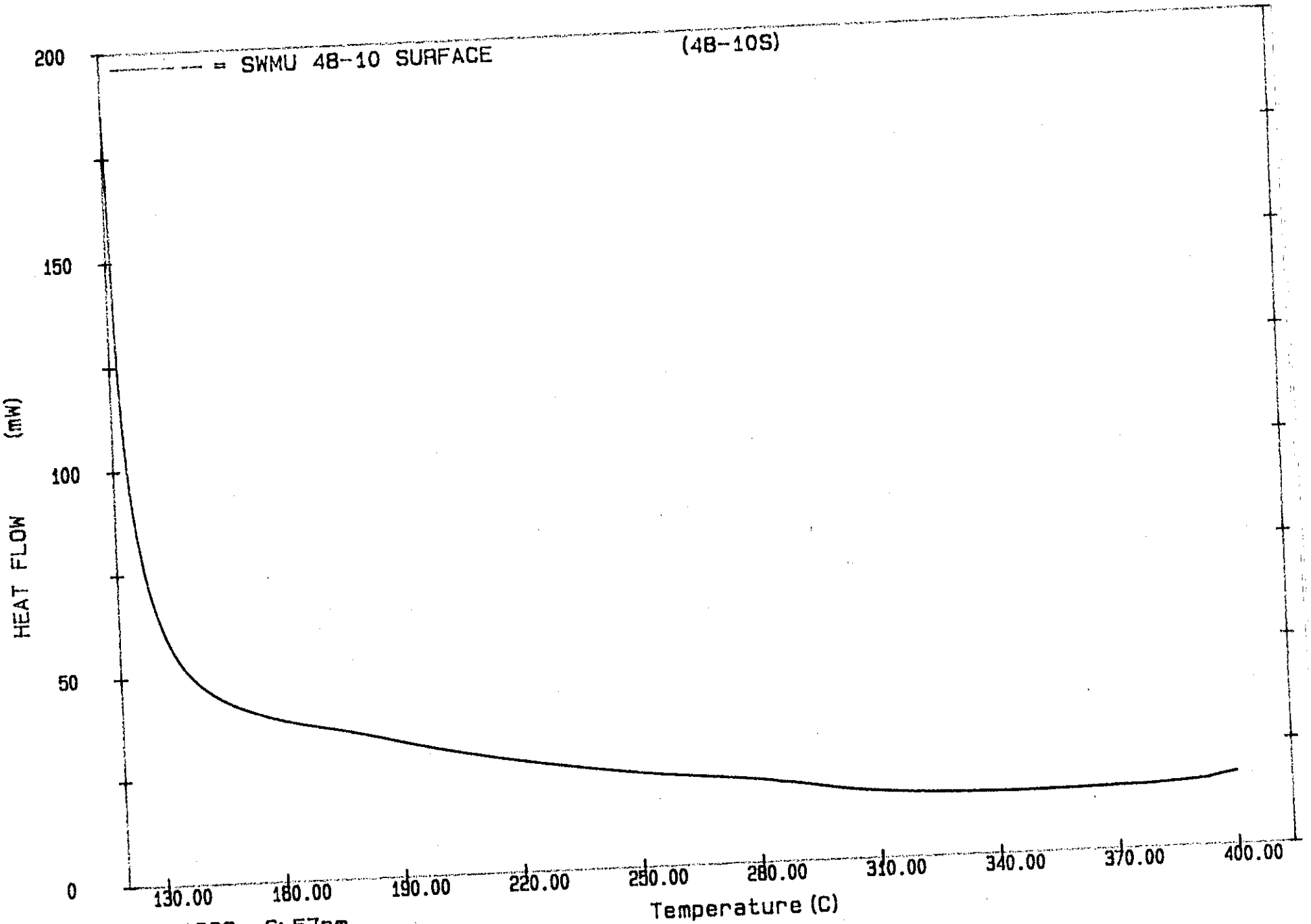
Date: Jul 30, 1996 5: 41pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
Fil SM48-8S ST 9-5-96

PERKIN-ELMER DSC7



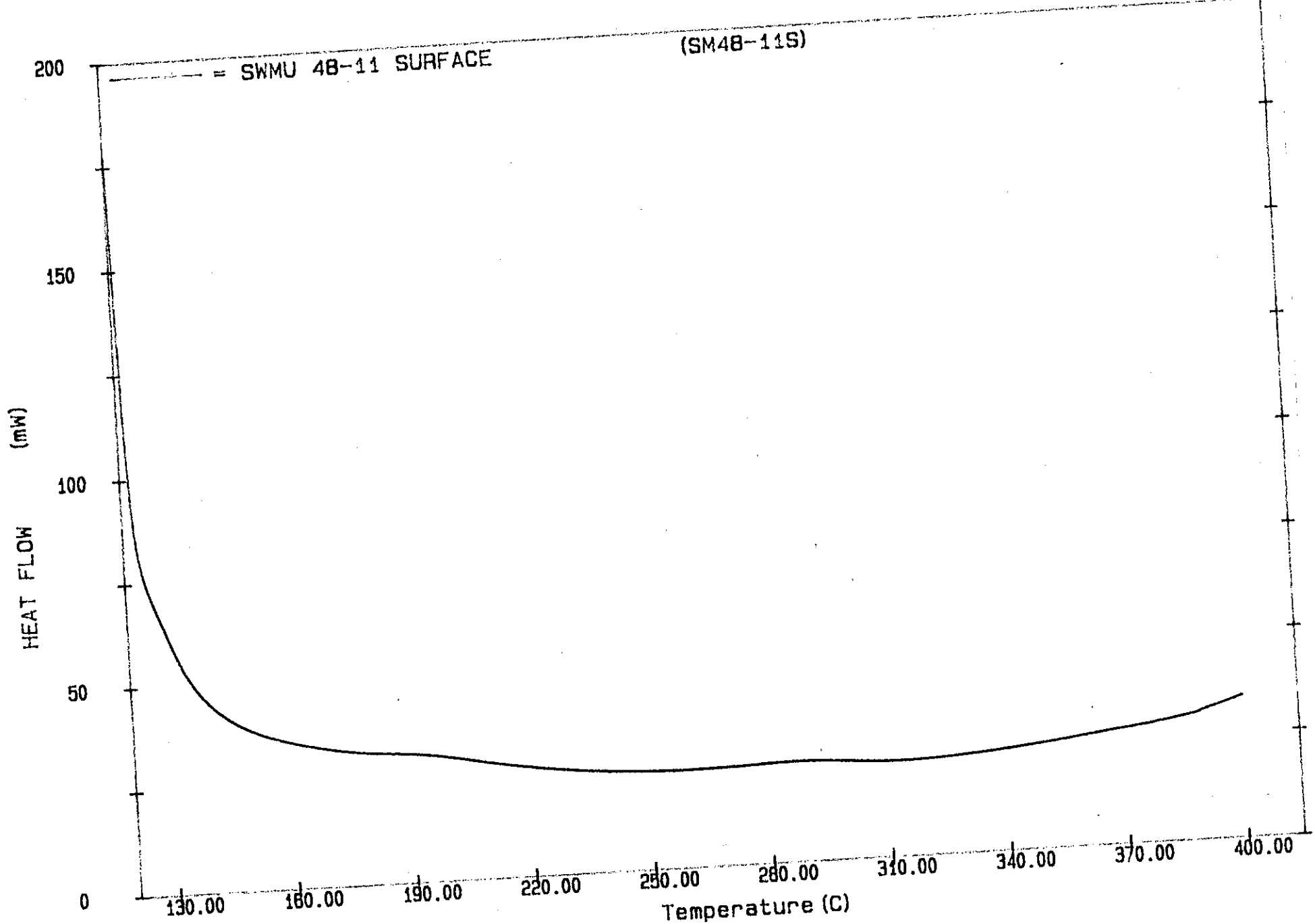
Date: Jul 30, 1996 6:34pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
F: 1: SM48-9S ST 9-5-96

PERKIN-ELMER DSC7



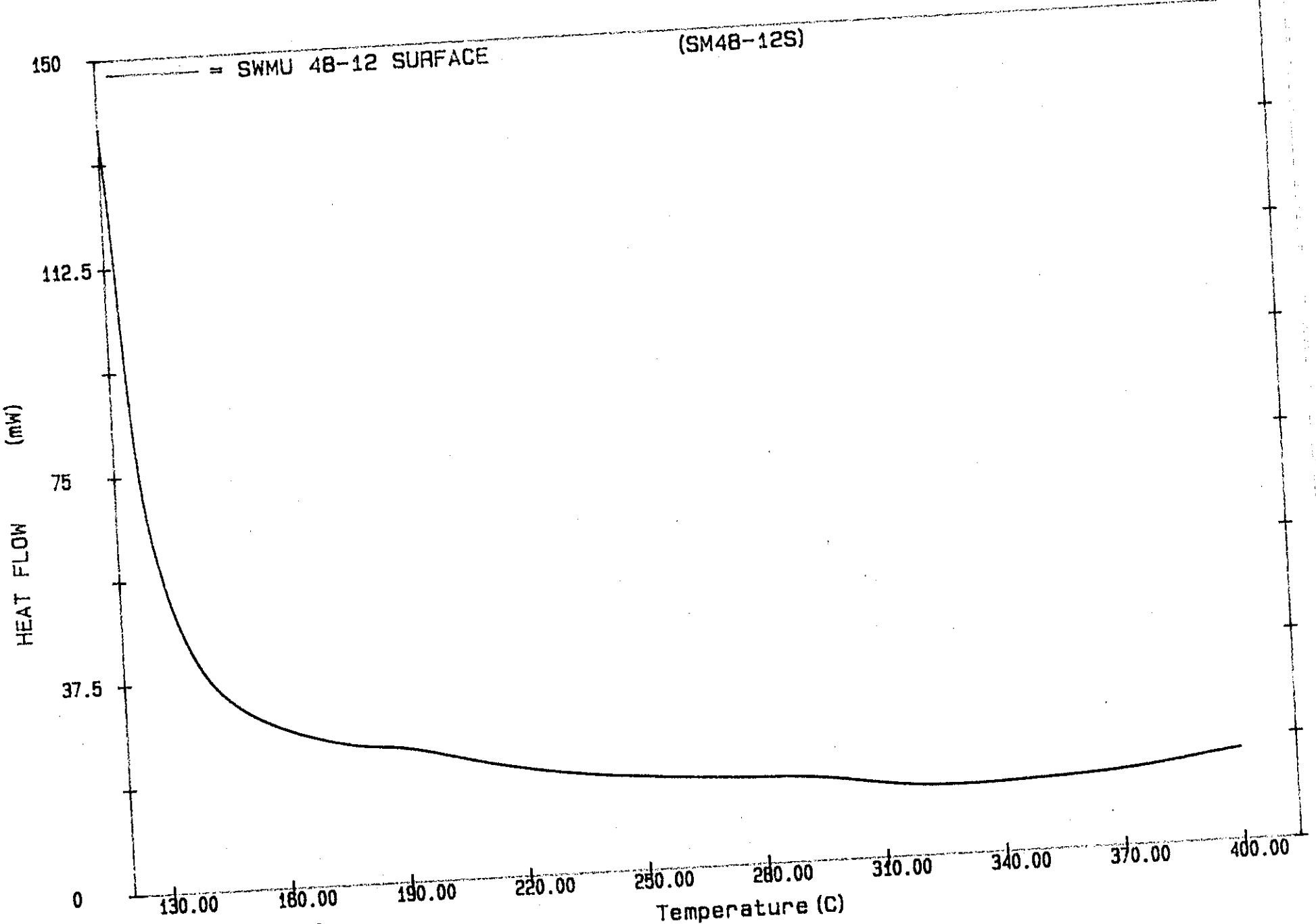
Date: Jul 30, 1996 6:57pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
Fi 48-10S ST 9-5-96

PE IN-ELMER DSC7



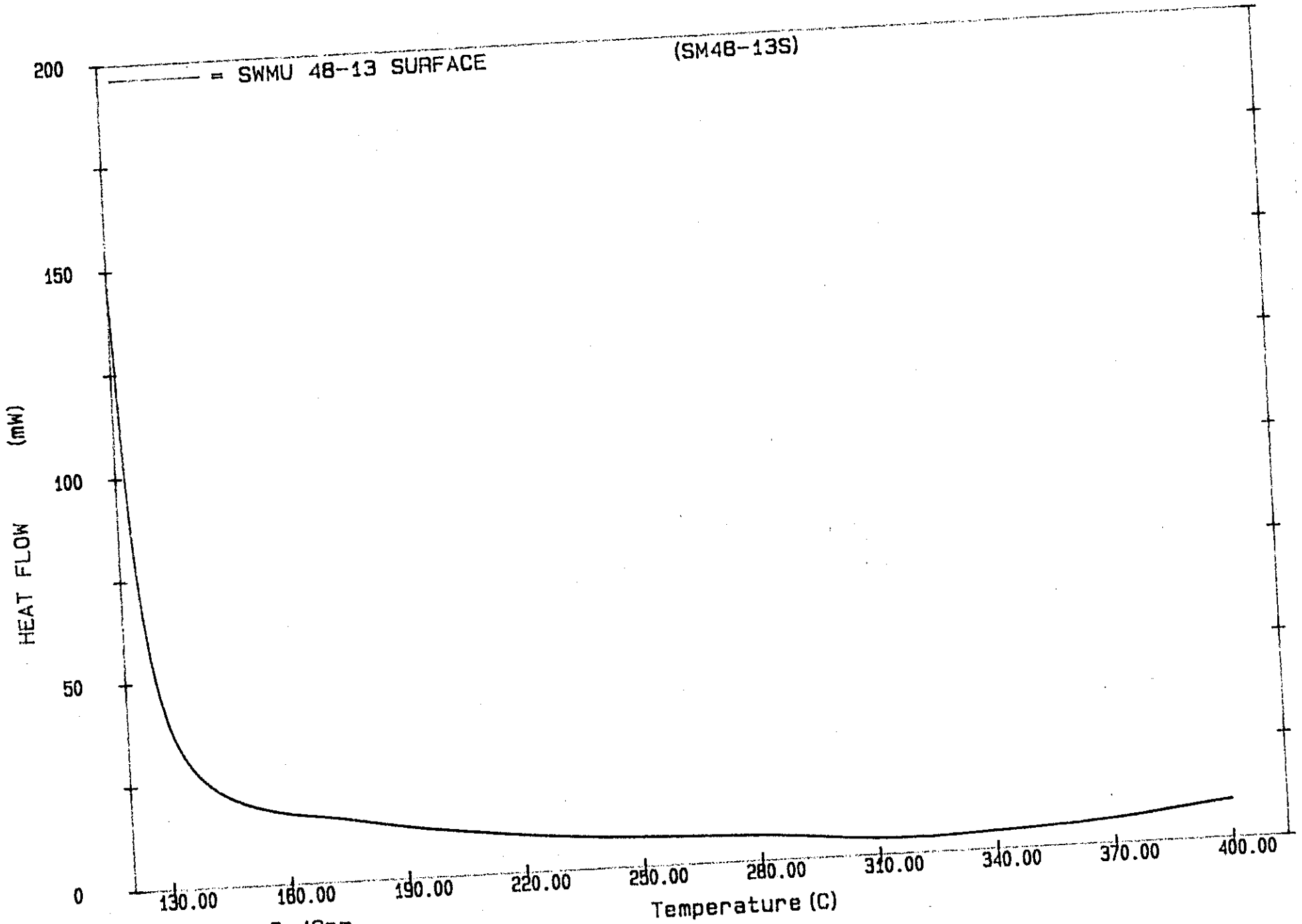
Date: Jul 30, 1996 7: 33pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
Fi SM48-11S ST 9-5-96

PERKIN-ELMER DSC7



Date: Jul 30, 1996 8: 20pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File SM48-12S ST 9-6-96

PERKIN-ELMER DSC7



Date: Jul 30, 1996 8: 42pm
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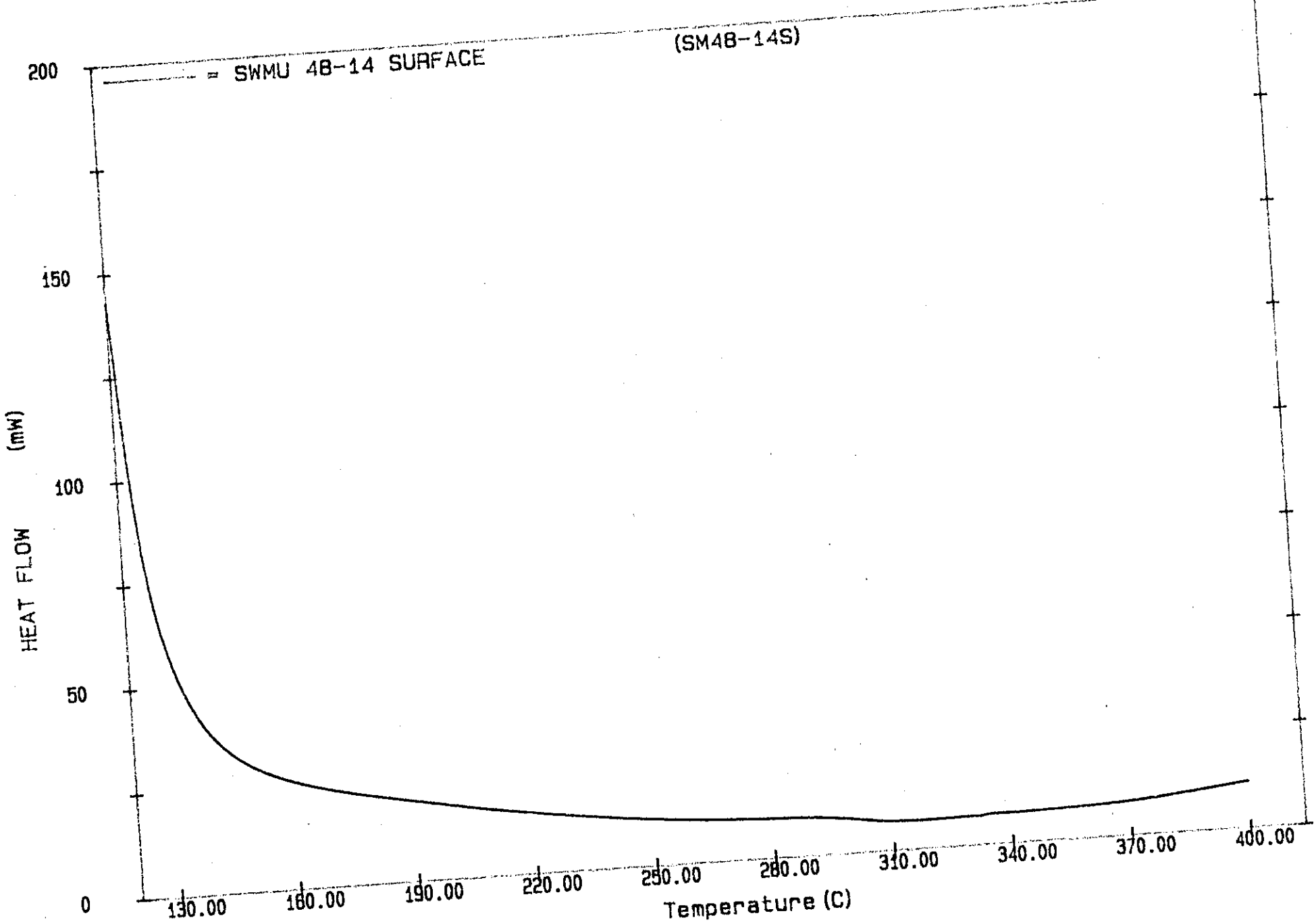
Sample Wt: 0.000 mg Path: C: \PE\
File 48-13S ST 9-5-96

PERKIN-ELMER DSC7



Date: Jul 30, 1996 9:03pm
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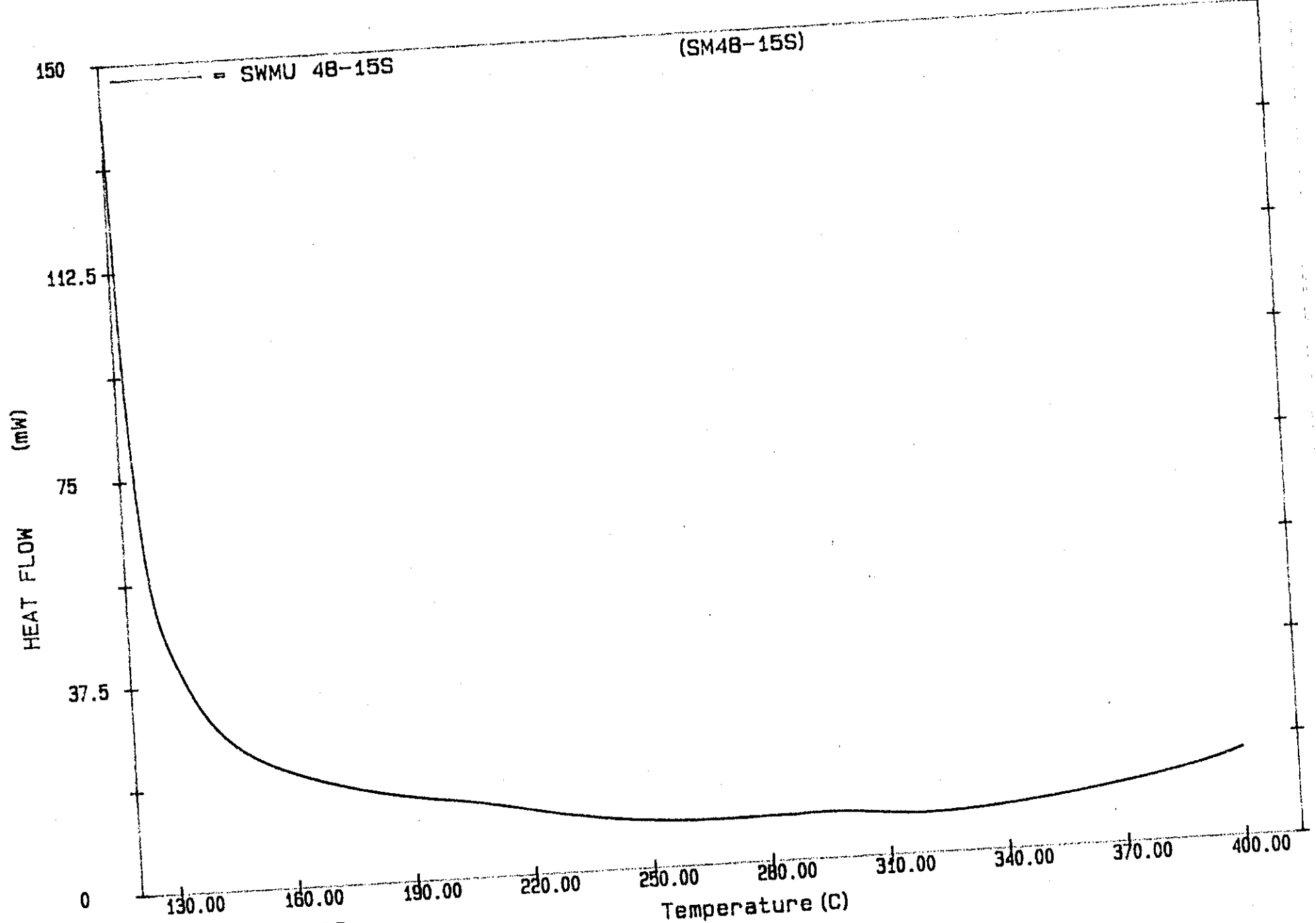
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-14S ST 9-5-96

PERKIN-ELMER DSC7



Date: Jul 30, 1996 10:08p
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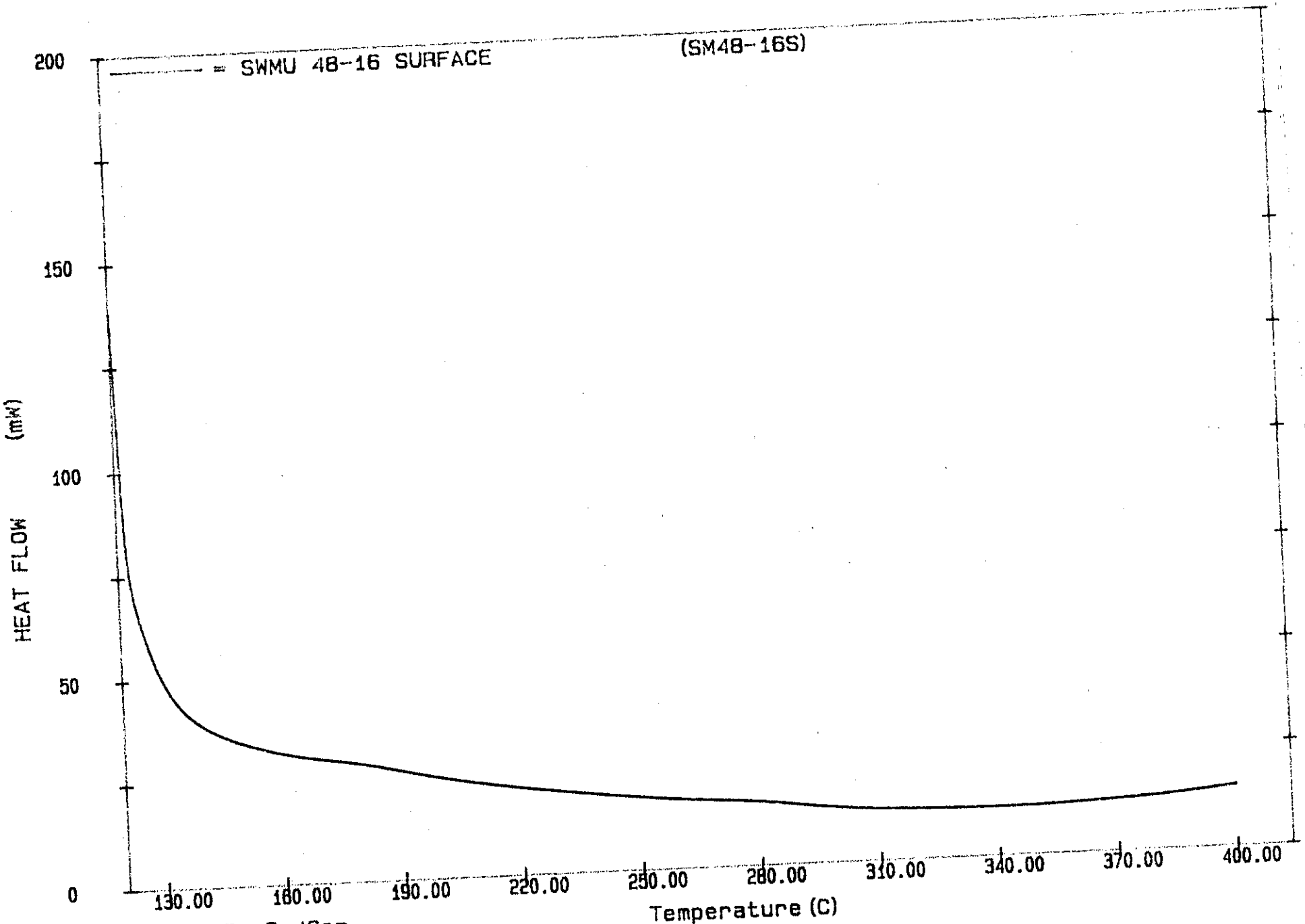
File SM48-15S ST 9-5-96

PERKIN-ELMER DSC7



Date: Jul 30, 1996 9:46pm
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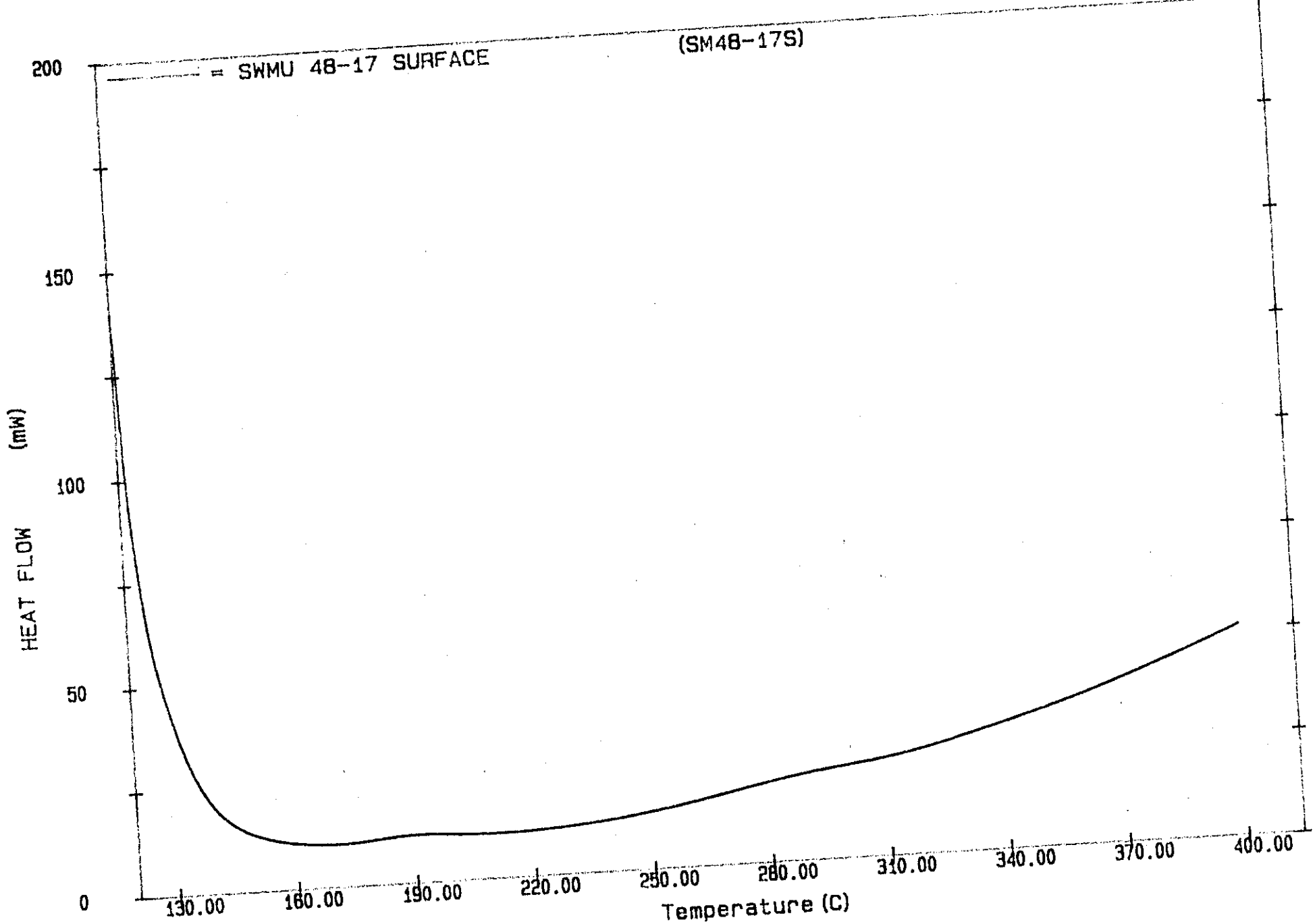
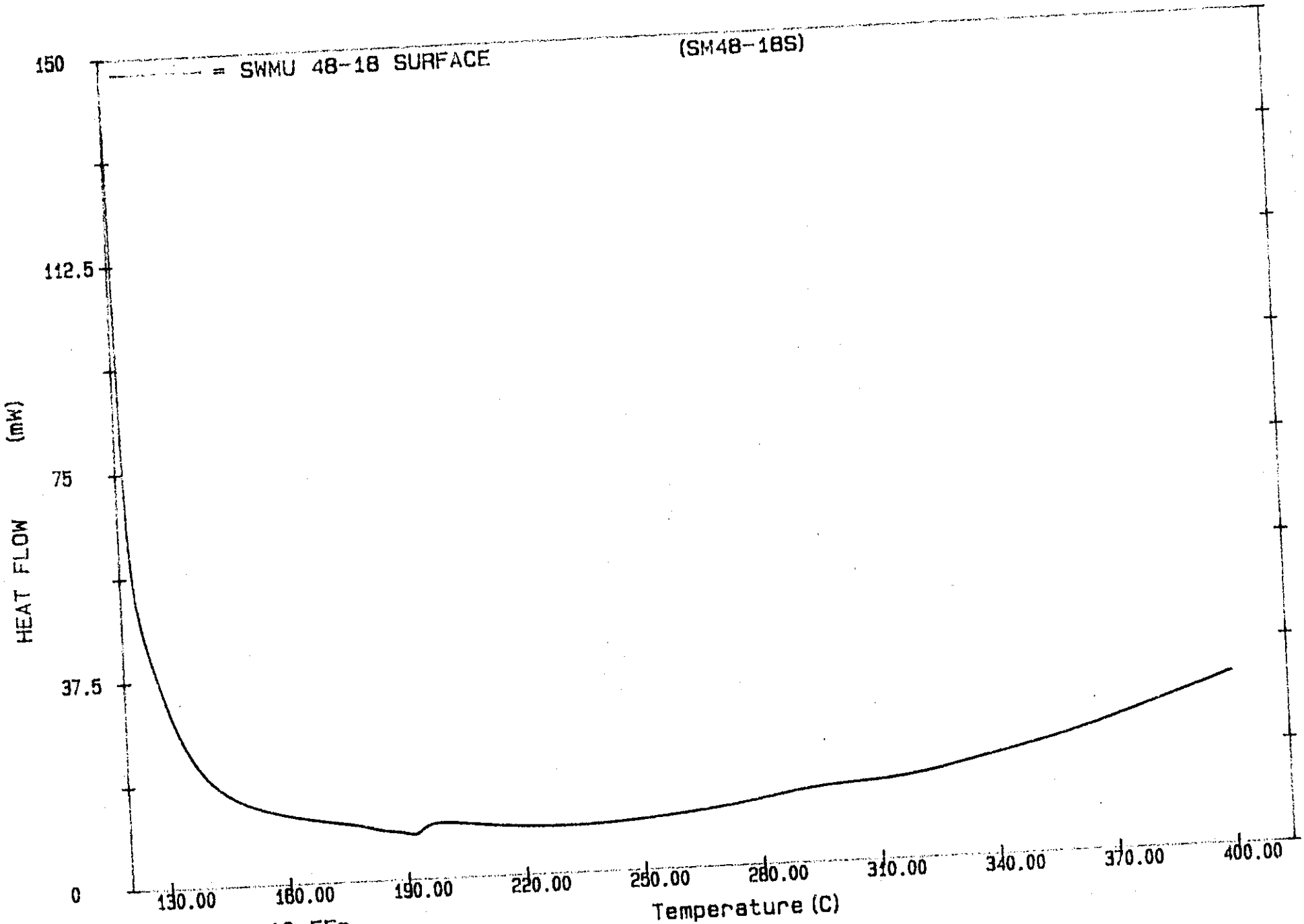
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-16S ST 9-5-96

PERKIN-ELMER DSC7



Date: Jul 30, 1996 10:31p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File 48-17S ST 9-5-96

PERKIN-ELMER DSC7



Date: Jul 30, 1996 10:55p
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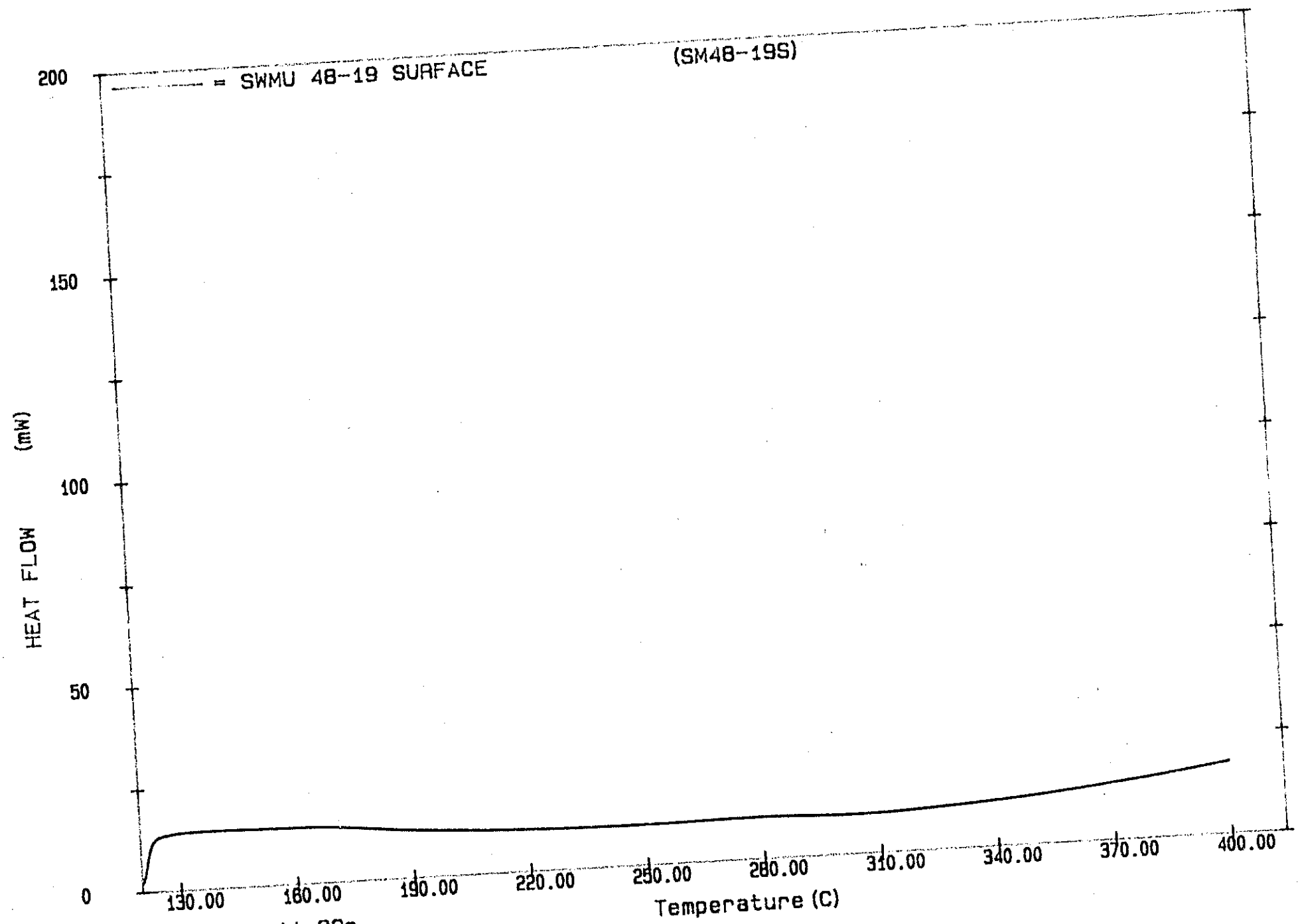
Sample Wt: 0.000 mg Path: C:\PE\
Fil SM48-18S ST 9-5-96

PET IN-ELMER DSC7



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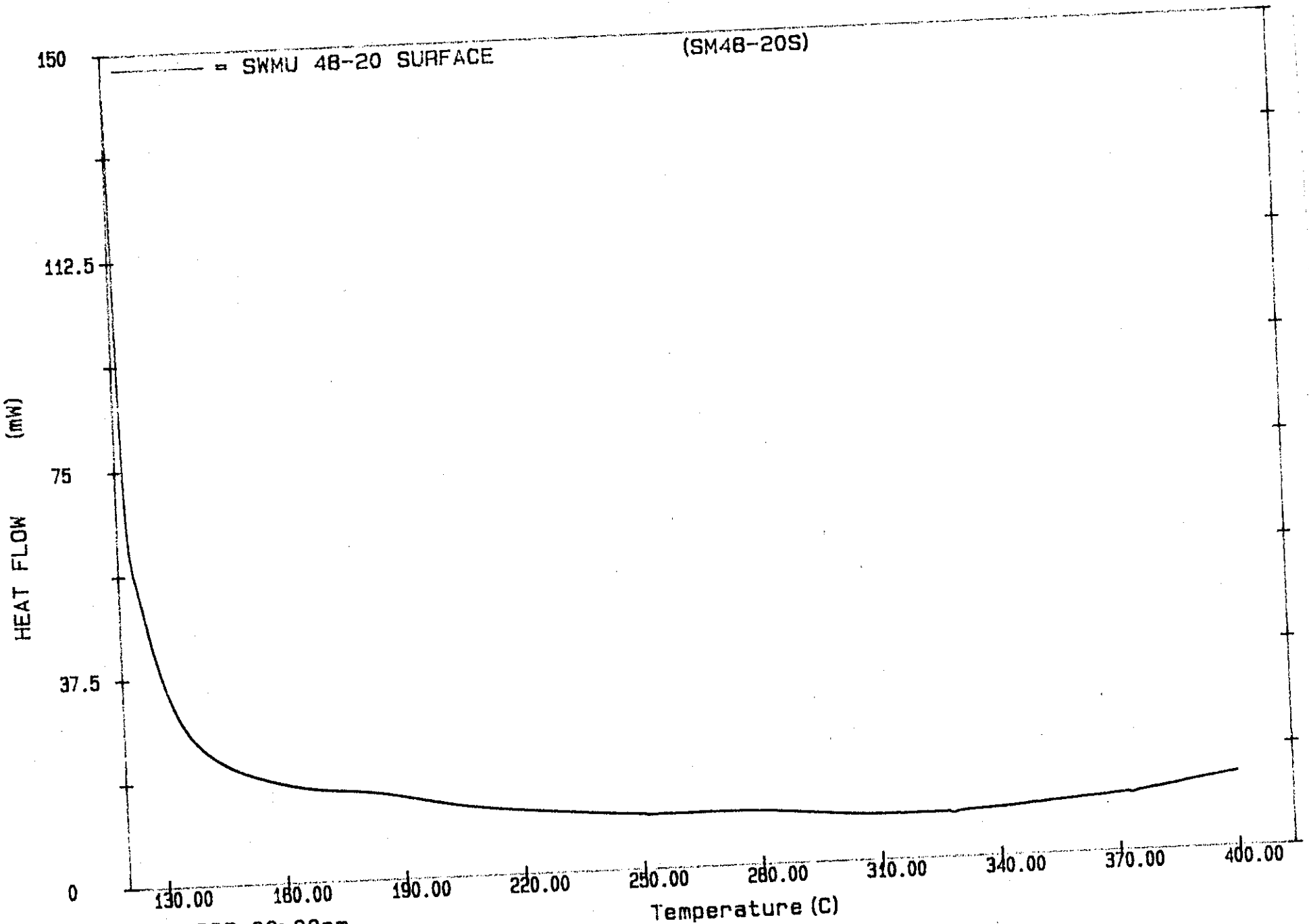
File: SM48-19S ST 9-5-96

PERKIN-ELMER DSC7



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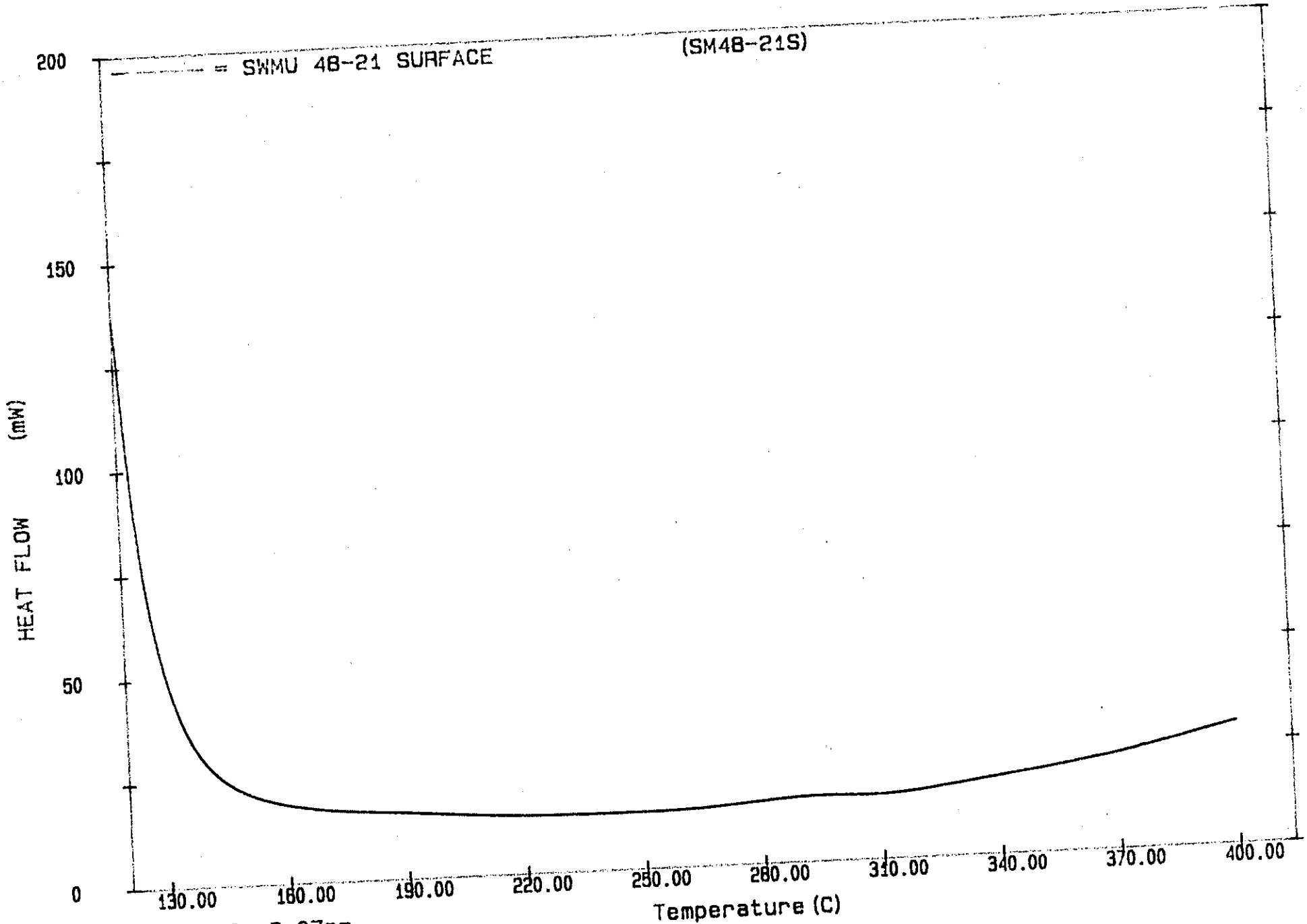
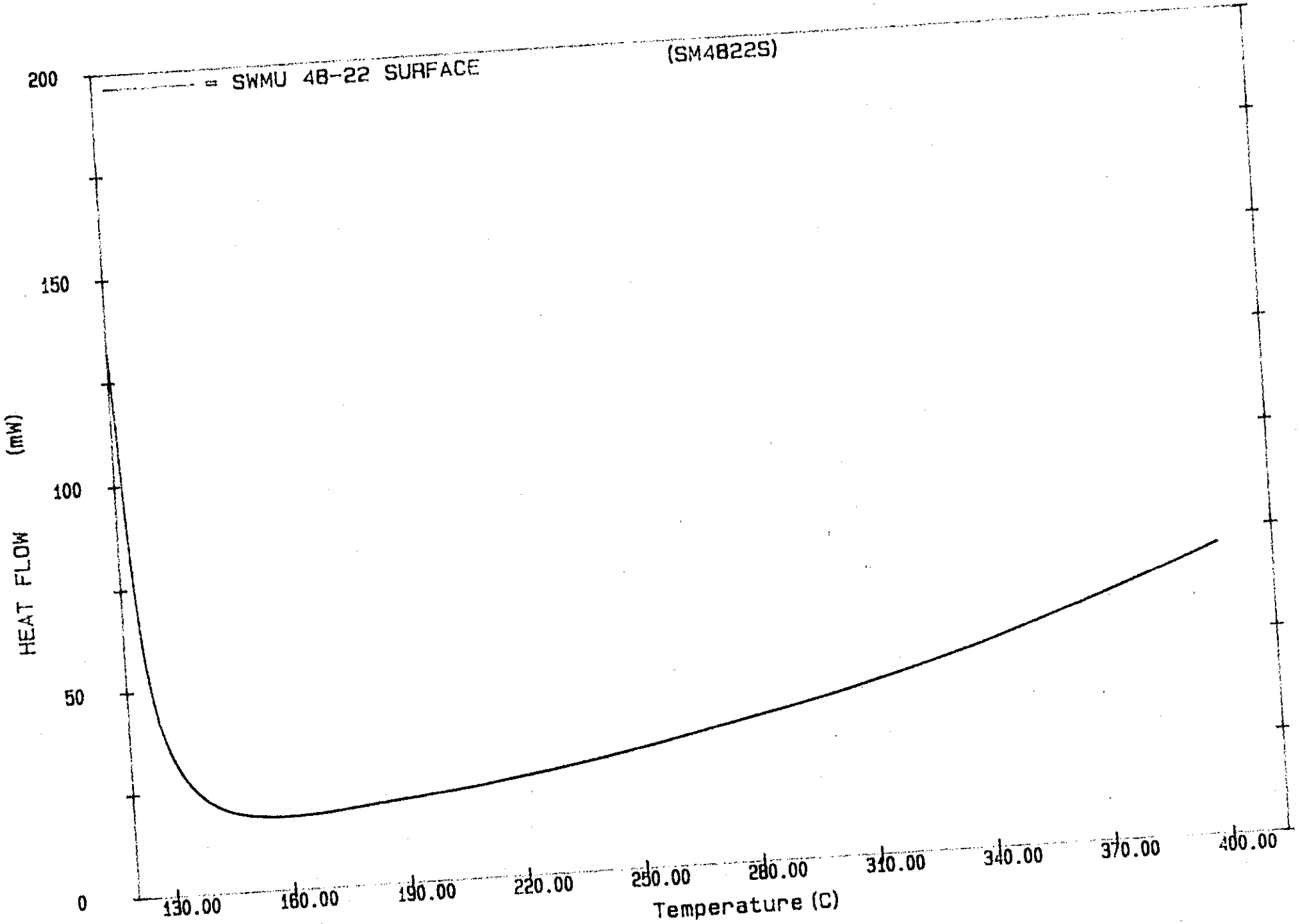
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-20S ST 9-5-96

PERKIN-ELMER DSC7



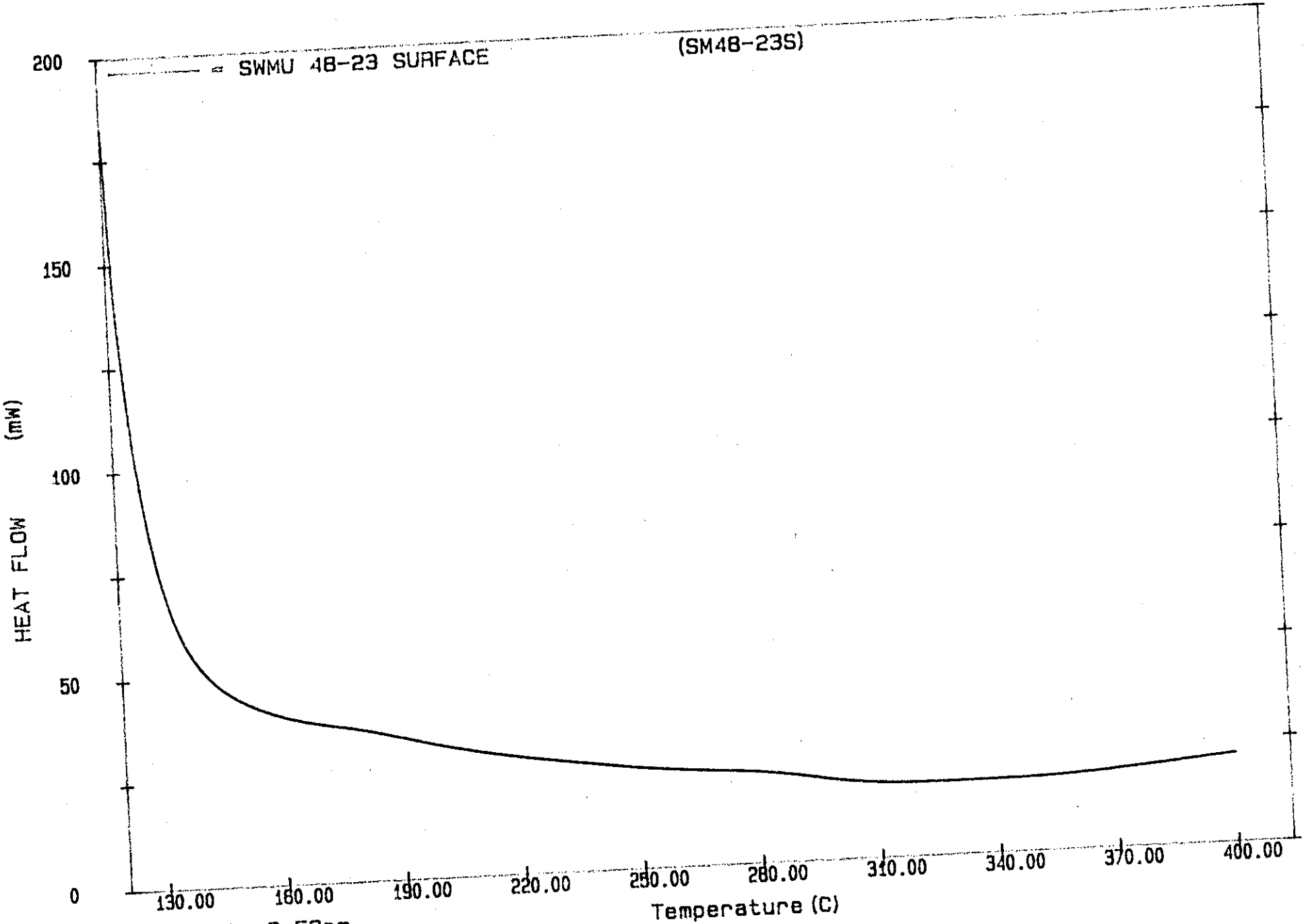
Date: Aug 02, 1996 6:07pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-21S ST 9-8-96

PERKIN-ELMER DSC7



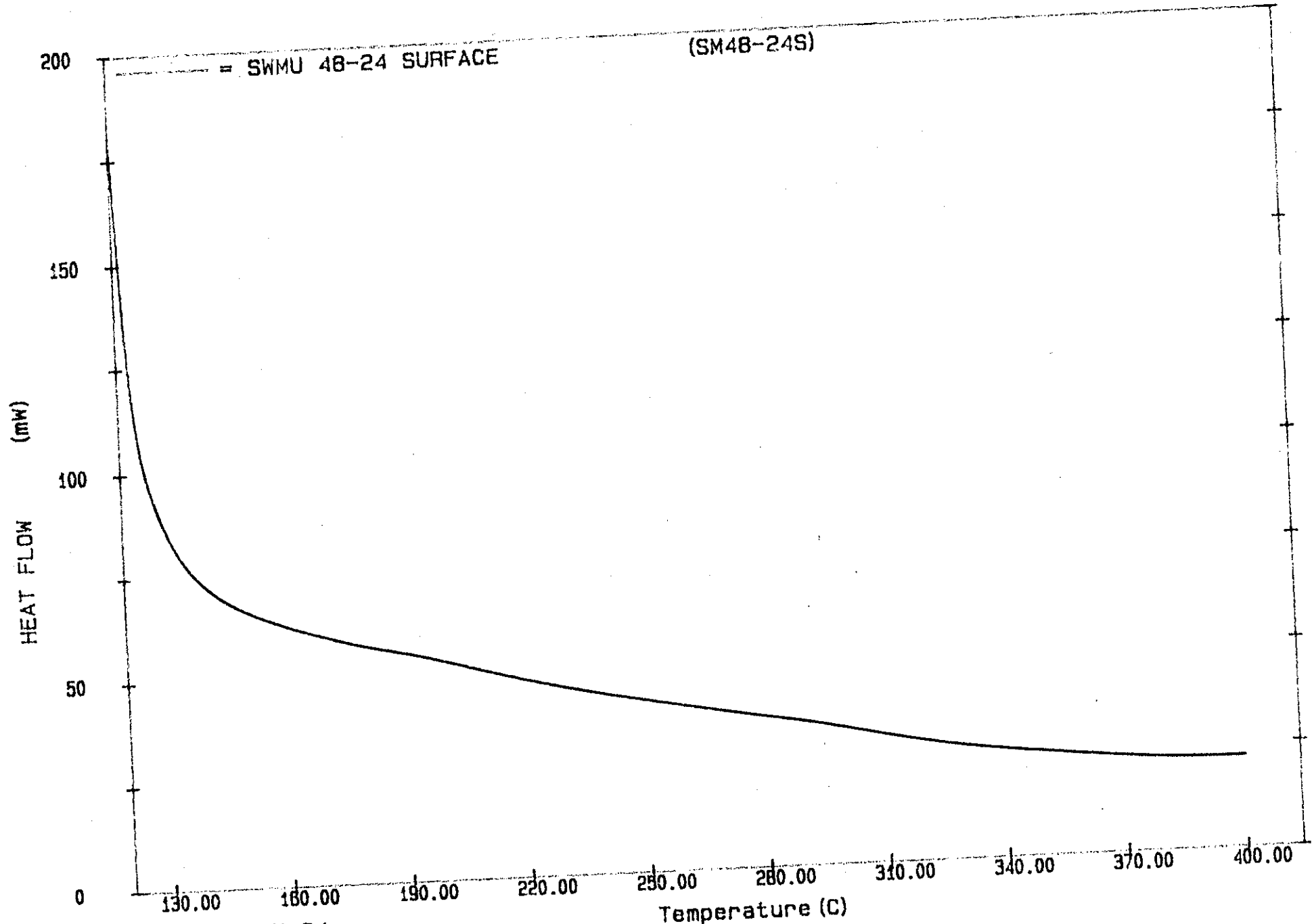
Date: Aug 02, 1996 6: 31pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File: 48822S ST 9-8-96

PER PERKIN-ELMER DSC7



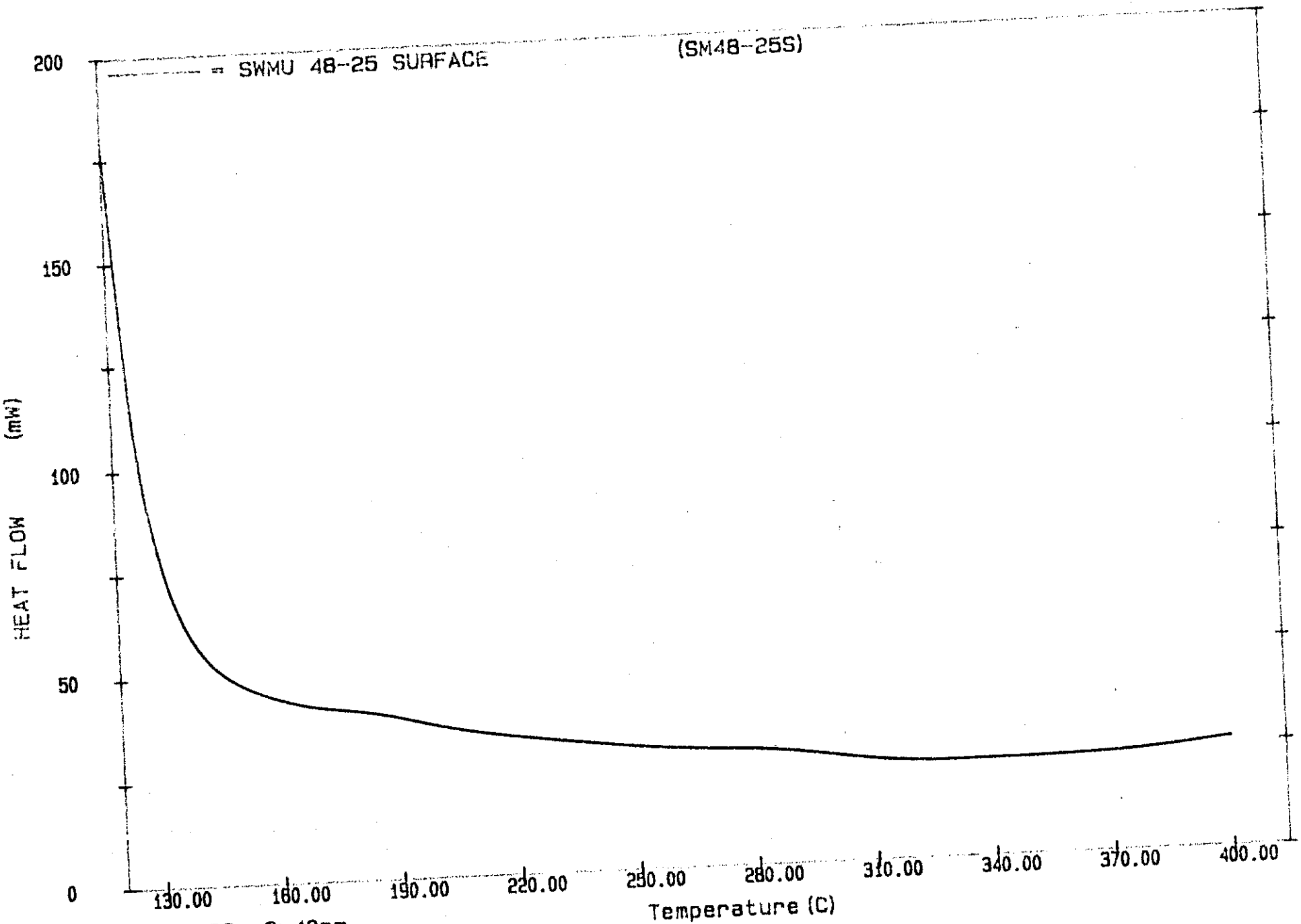
Date: Aug 02, 1996 6:53pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
F 1: SM48-23S ST 9-8-96

PERKIN-ELMER DSC7



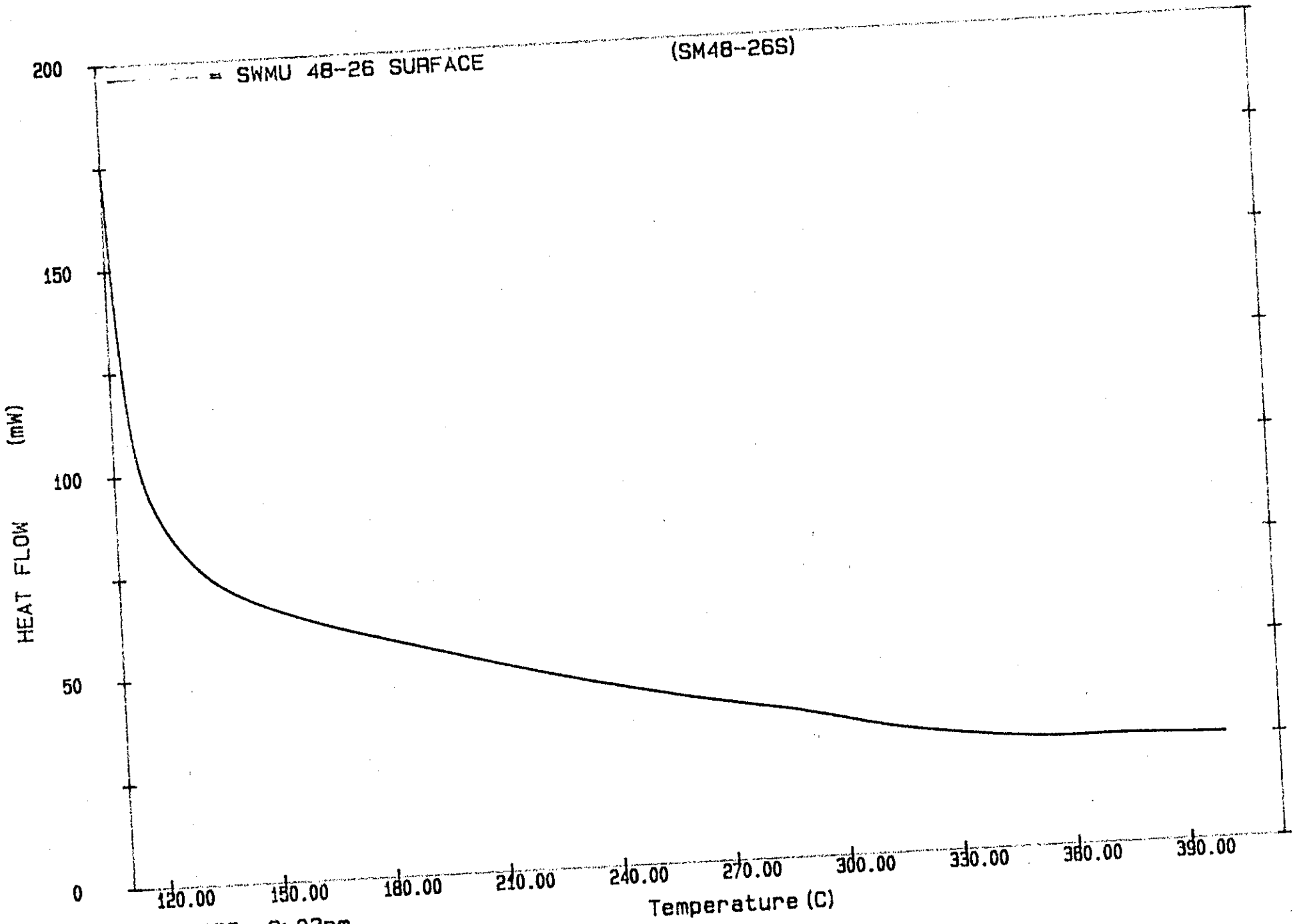
Date: Aug 02, 1996 7:34pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
Fi. SM48-24S ST 9-8-96

PE[illegible]IN-ELMER DSC7



Date: Aug 02, 1996 8:40pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File 48-25S ST 9-8-96

PERKIN-ELMER DSC7



Date: Aug 02, 1996 9:03pm
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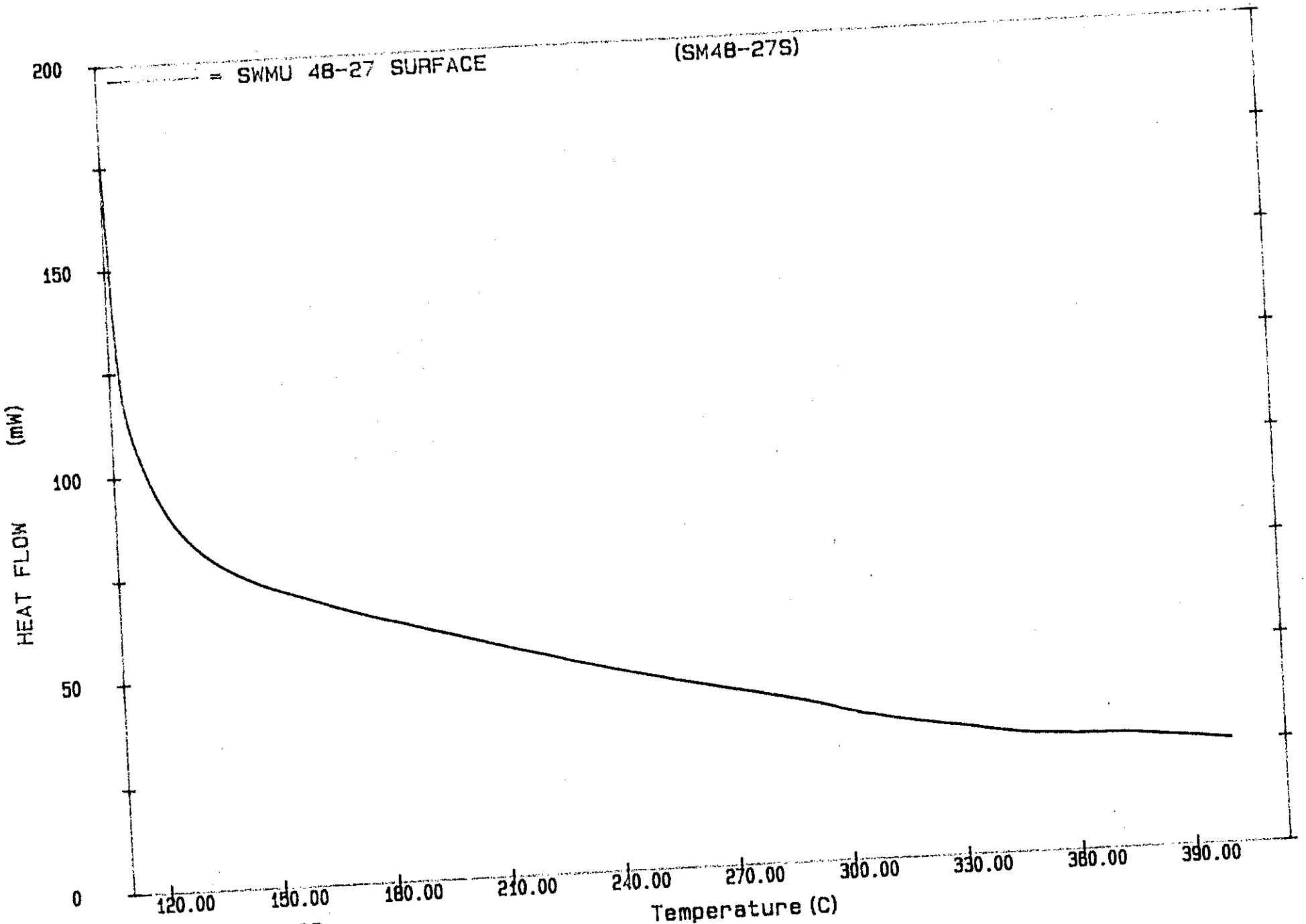
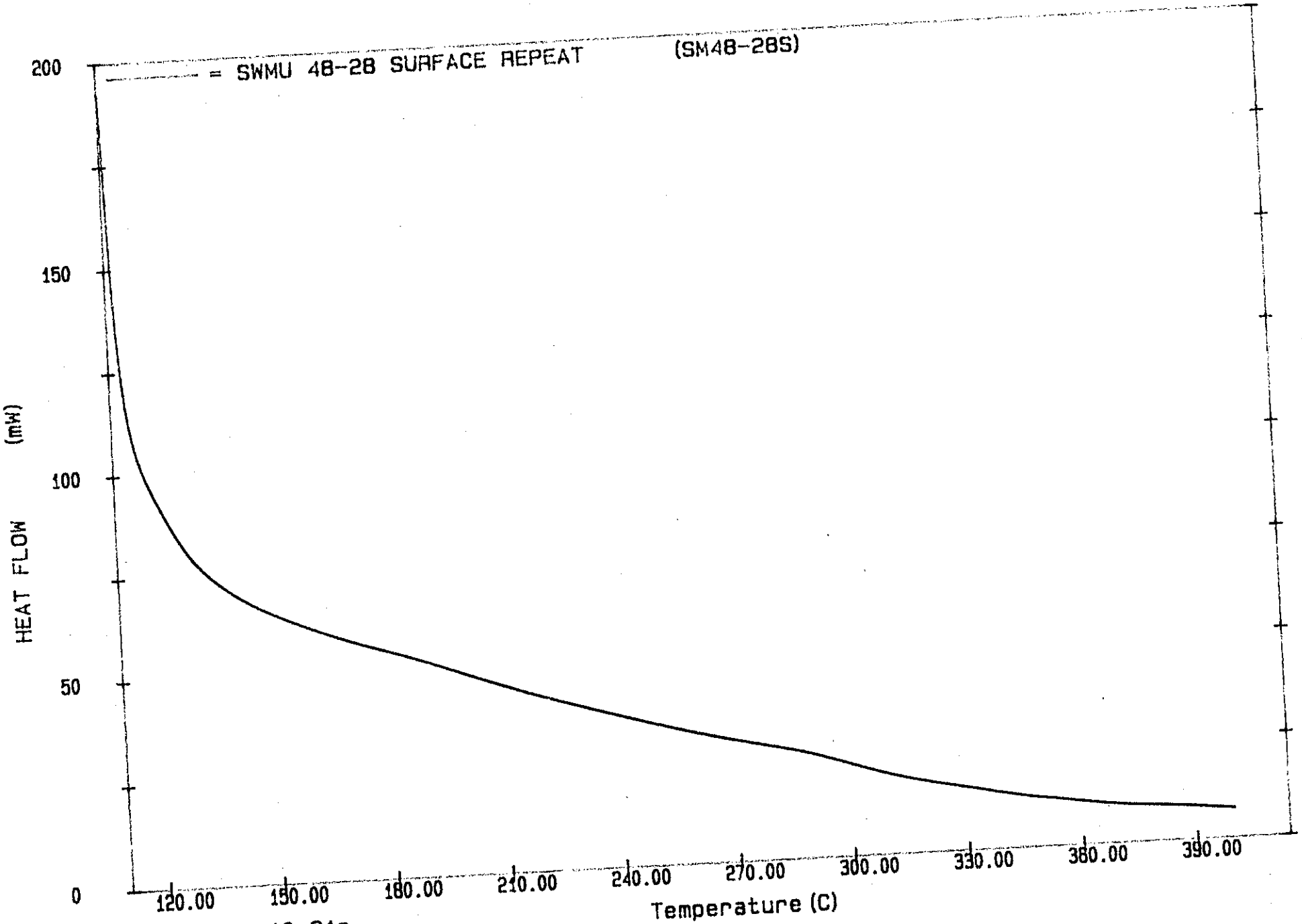
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-26S ST 9-8-96

PERKIN-ELMER DSC7



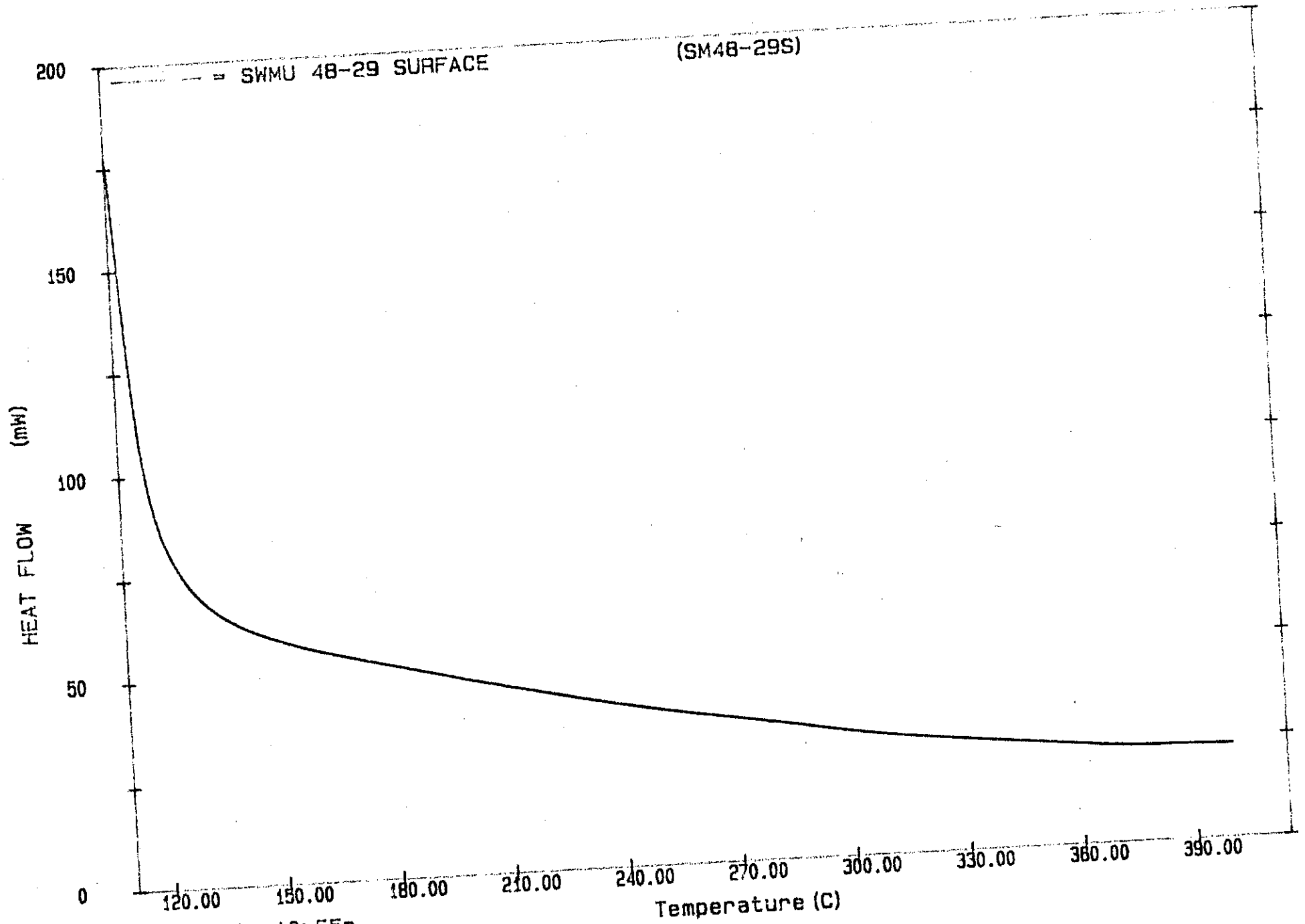
Date: Aug 02, 1996 9:26pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File 148-27S ST 9-8-96

PERKIN-ELMER DSC7



Date: Aug 02, 1996 10:21p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File M48-28S ST 9-8-96

PER TN-ELMER DSC7



Date: Aug 02, 1996 10:55p
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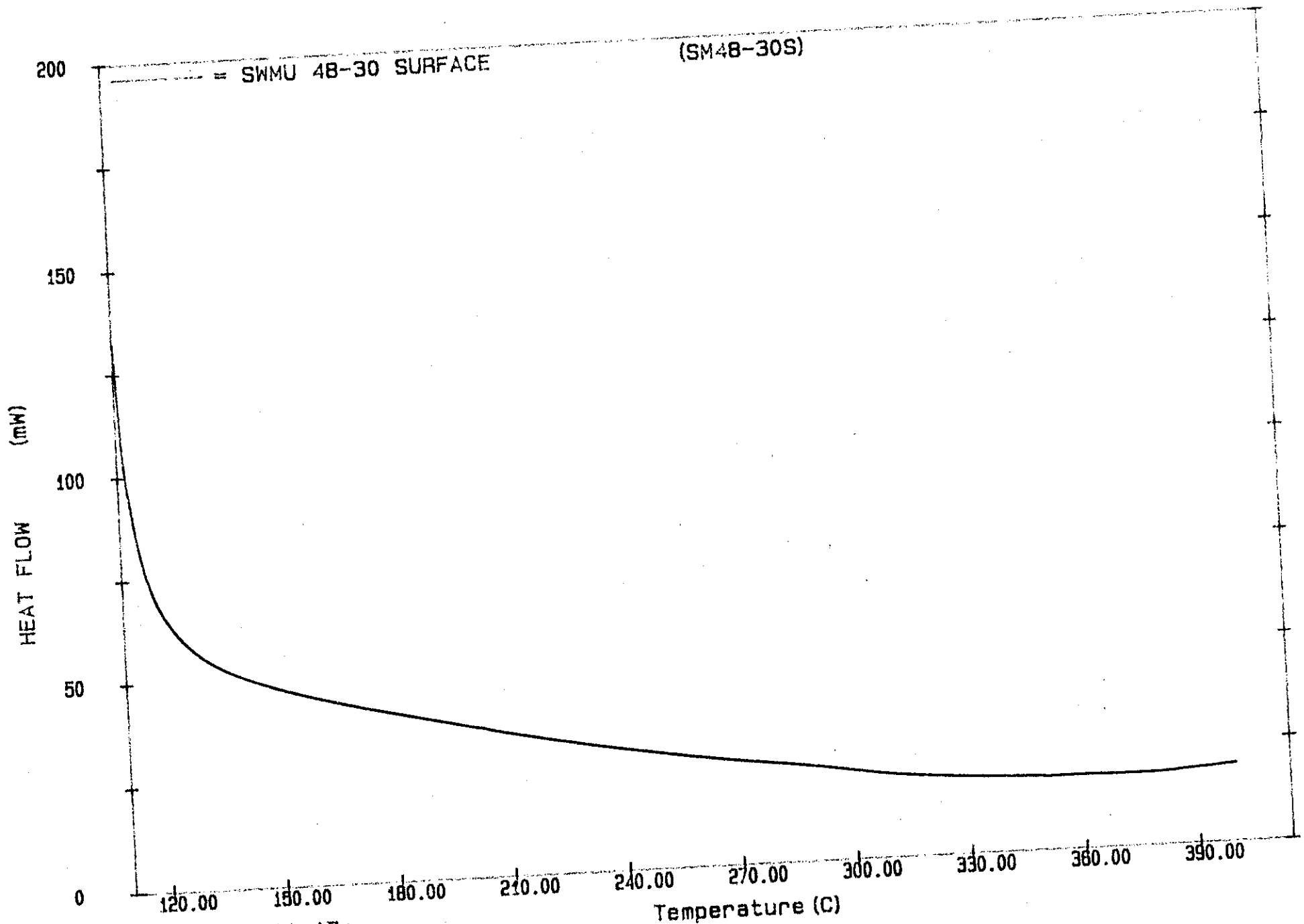
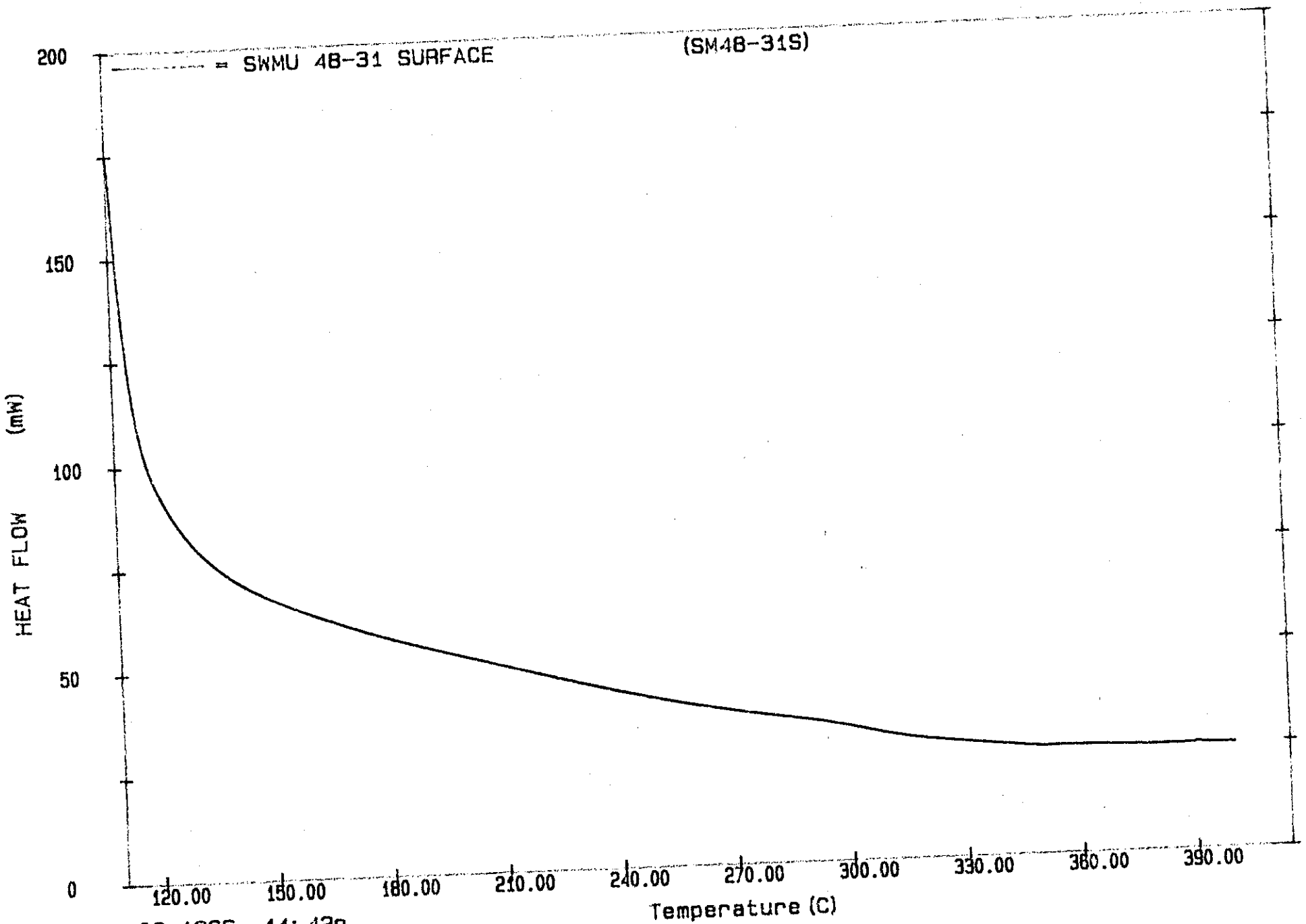
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-29S ST 9-8-96

PERKIN-ELMER DSC7



Date: Aug 02, 1996 11:17p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-30S ST 9-8-96

PERKIN-ELMER DSC7



Date: Aug 02, 1996 11: 42p
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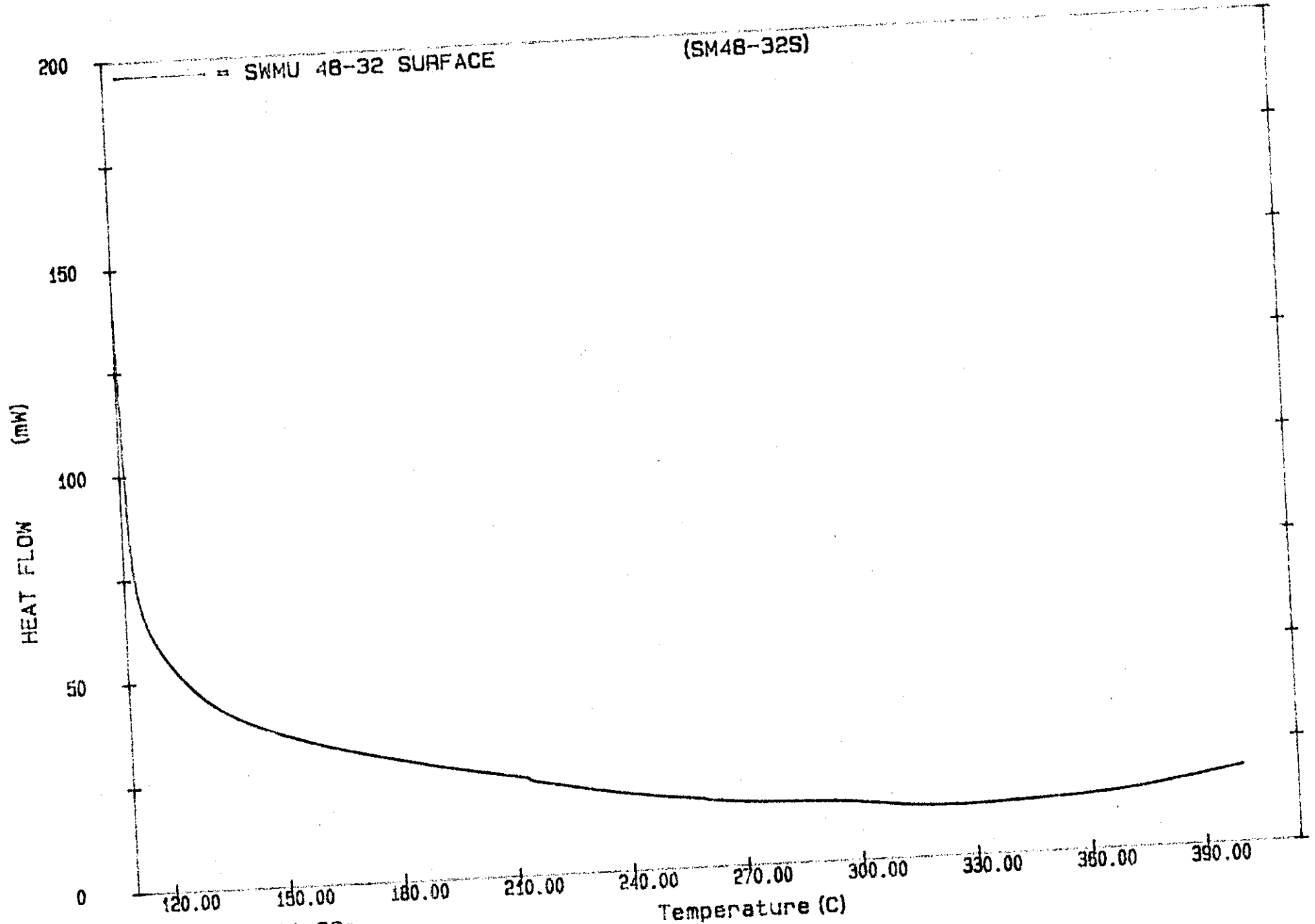
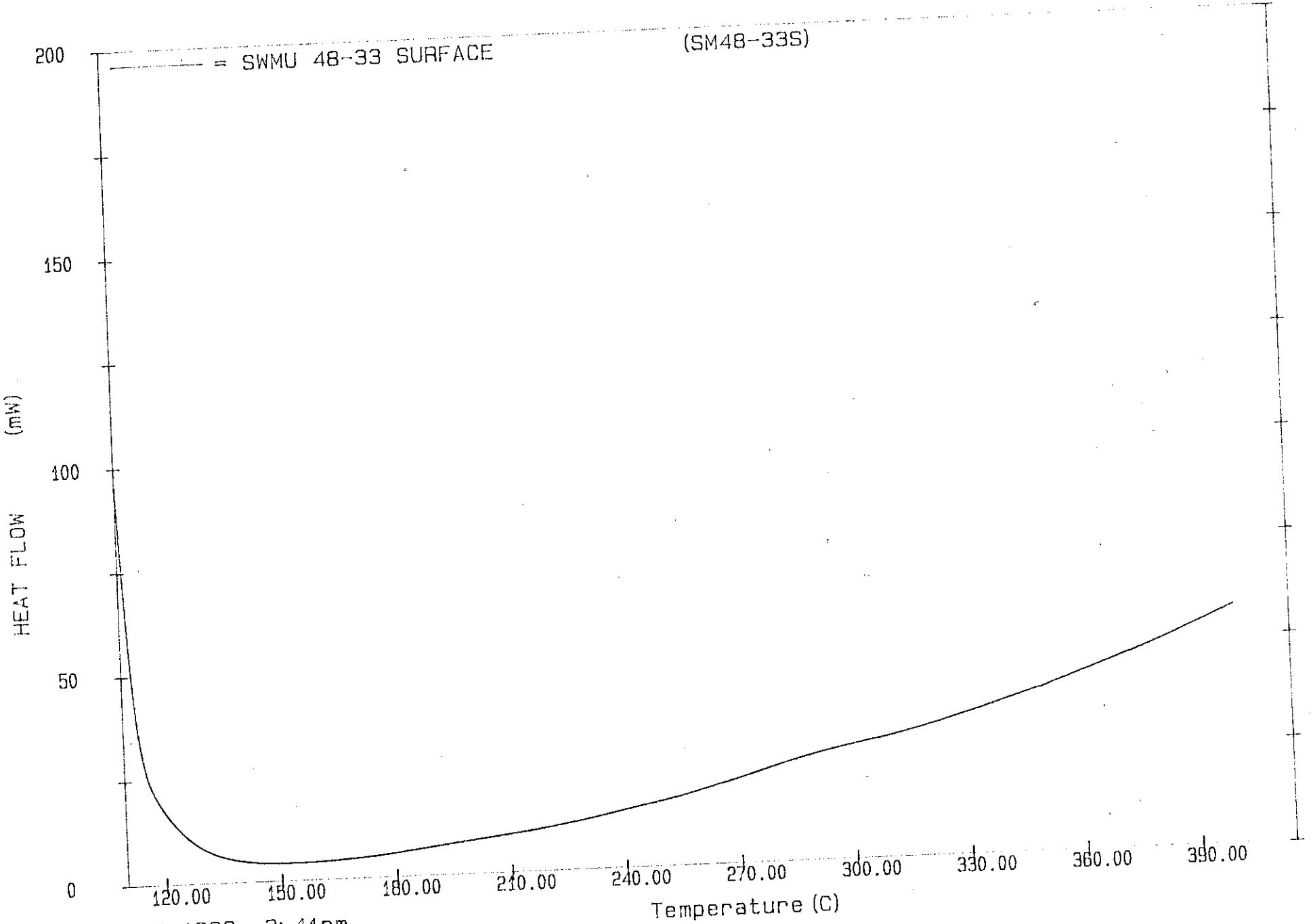
Sample Wt: 0.000 mg Path: C: \PE\
File: SM48-31S ST 9-8-96

PERKIN-ELMER DSC7



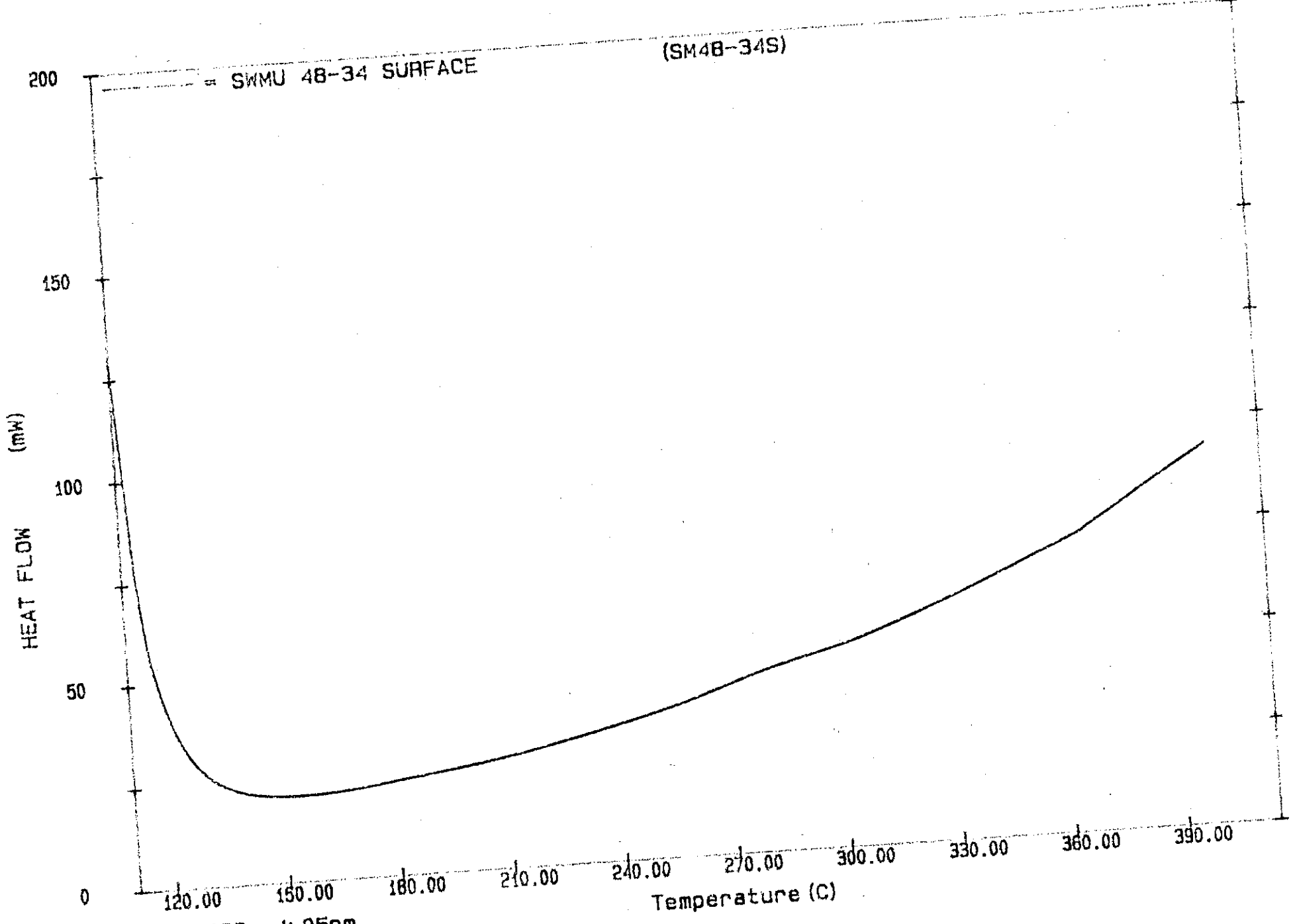
Date: Aug 03, 1996 11:36p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File 48-32S ST 9-9-96

PER TN-ELMER DSC7



Date: Aug 04, 1996 3: 41pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File: SM48-33S ST 9-10-96

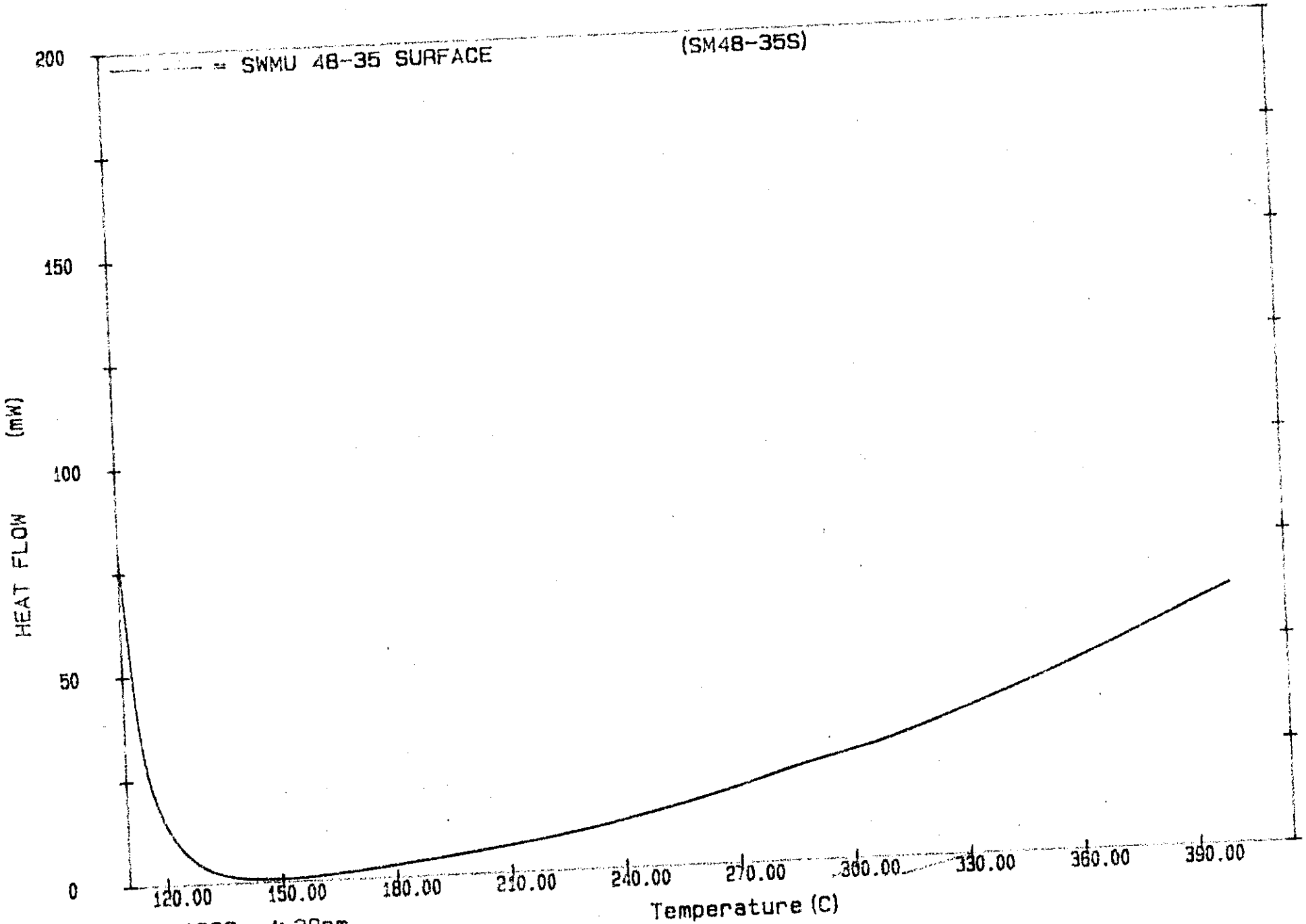
PERKIN-ELMER DSC7



Date: Aug 04, 1996 4:05pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\

File: M48-34S ST 9-10-96

PER PERKIN-ELMER DSC7



Date: Aug 04, 1996 4:29pm
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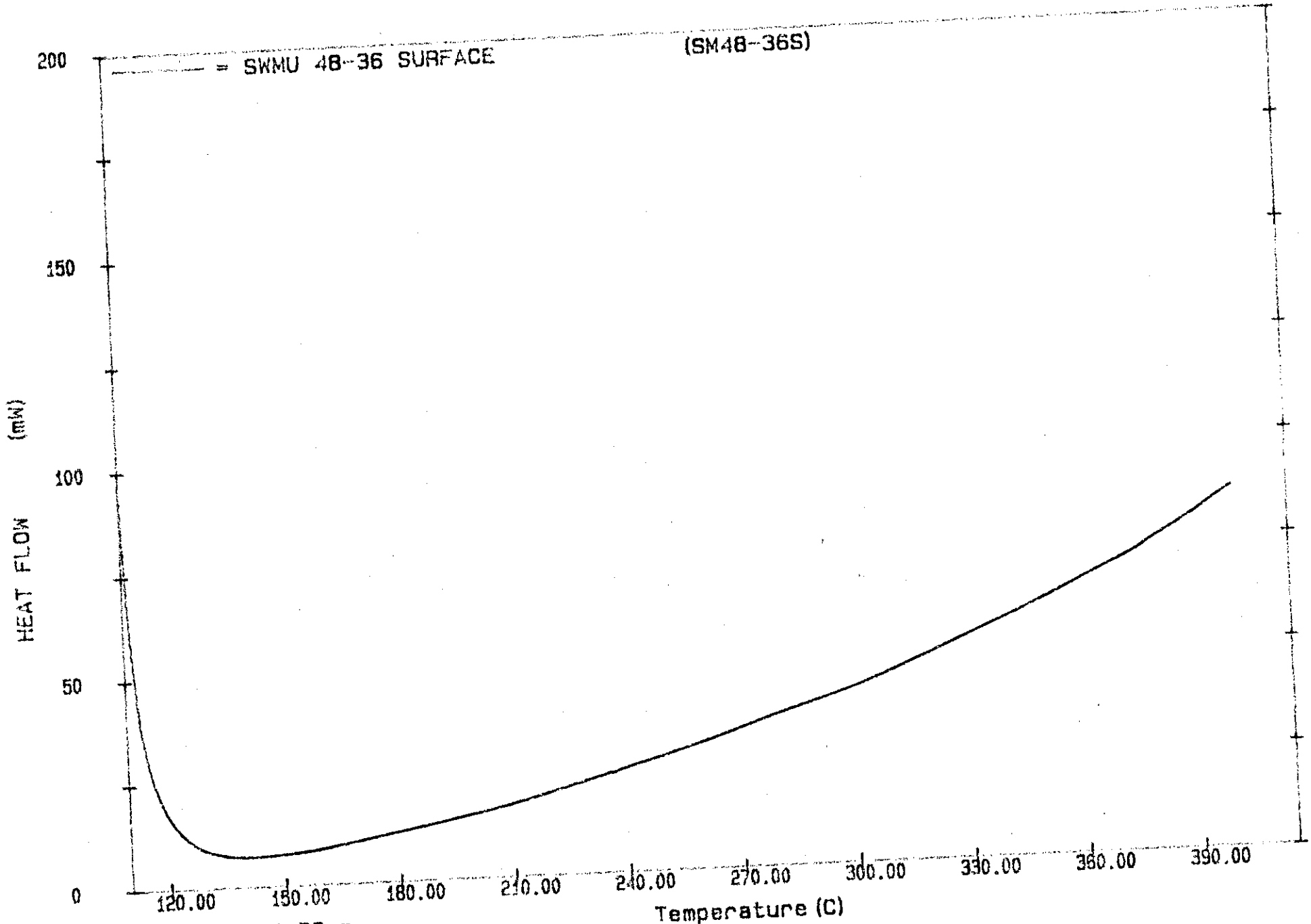
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-35S ST 9-10-96

PERKIN-ELMER DSC7



Date: Aug 04, 1996 4:52pm
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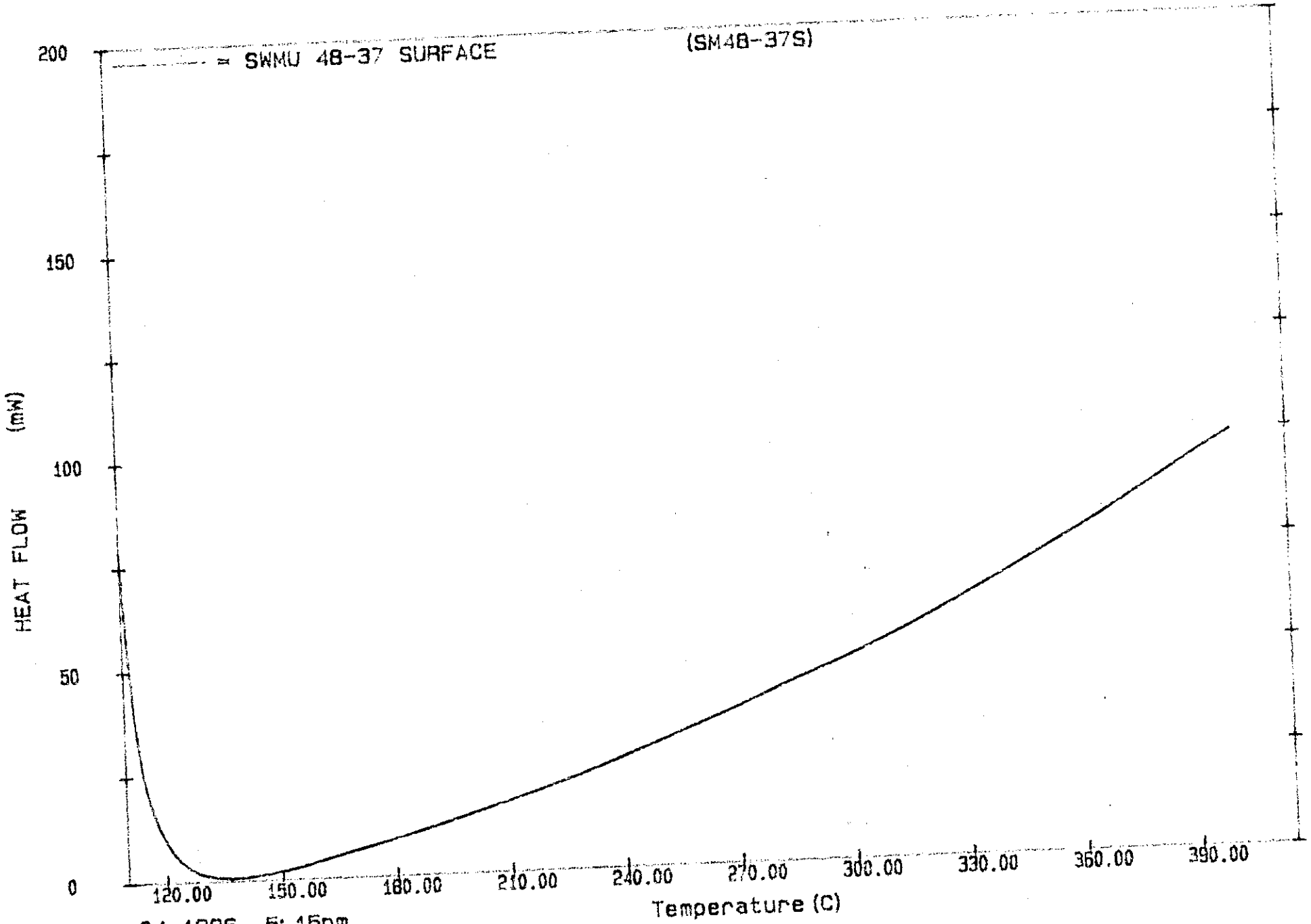
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-36S ST 9-10-96

PERKIN-ELMER DSC7



Date: Aug 04, 1996 5: 15pm
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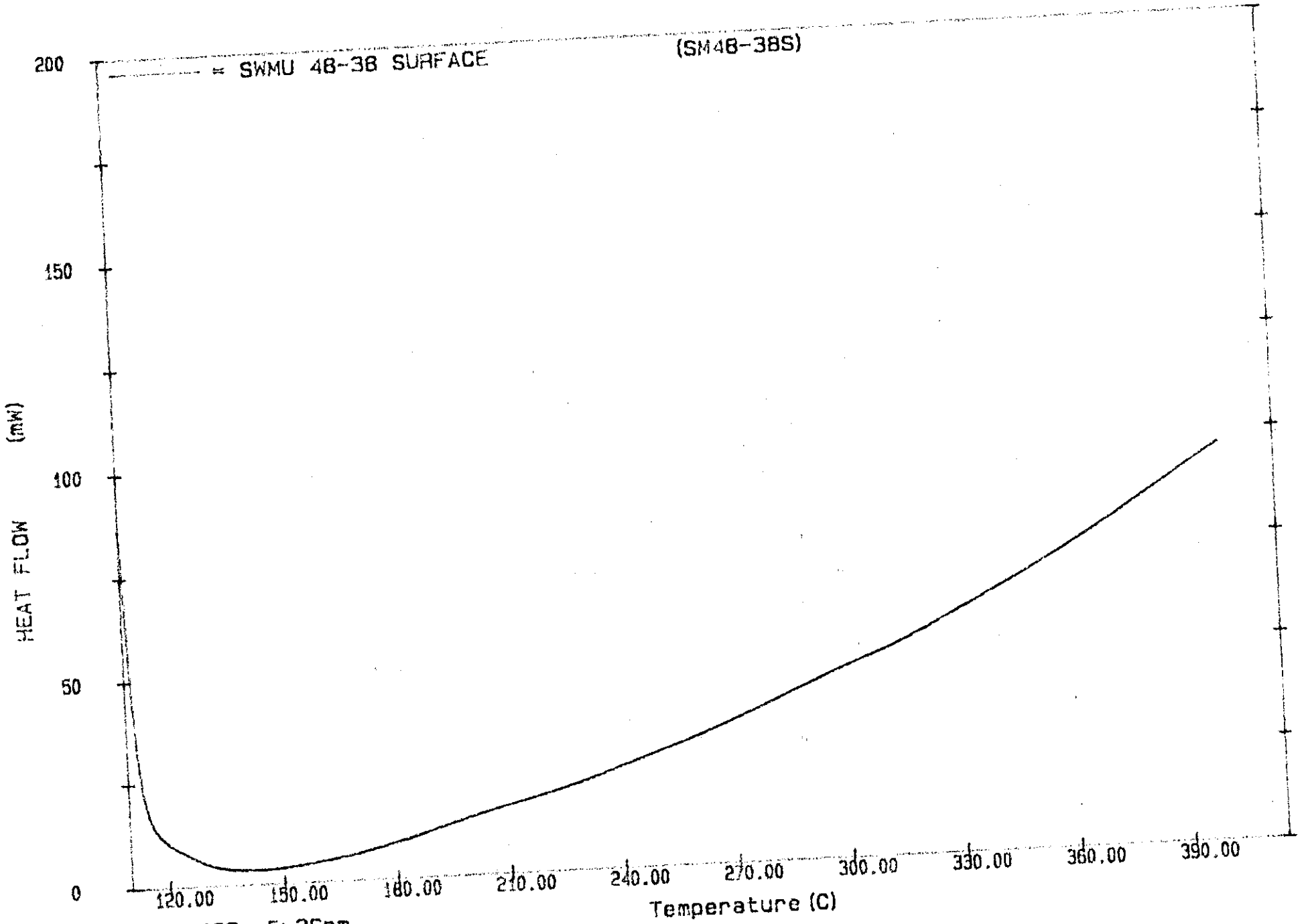
Fil[illegible] SM48-37S ST 9-10-96

PE[illegible] TN-ELMER DSC7



Date: Aug 04, 1996 5:36pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
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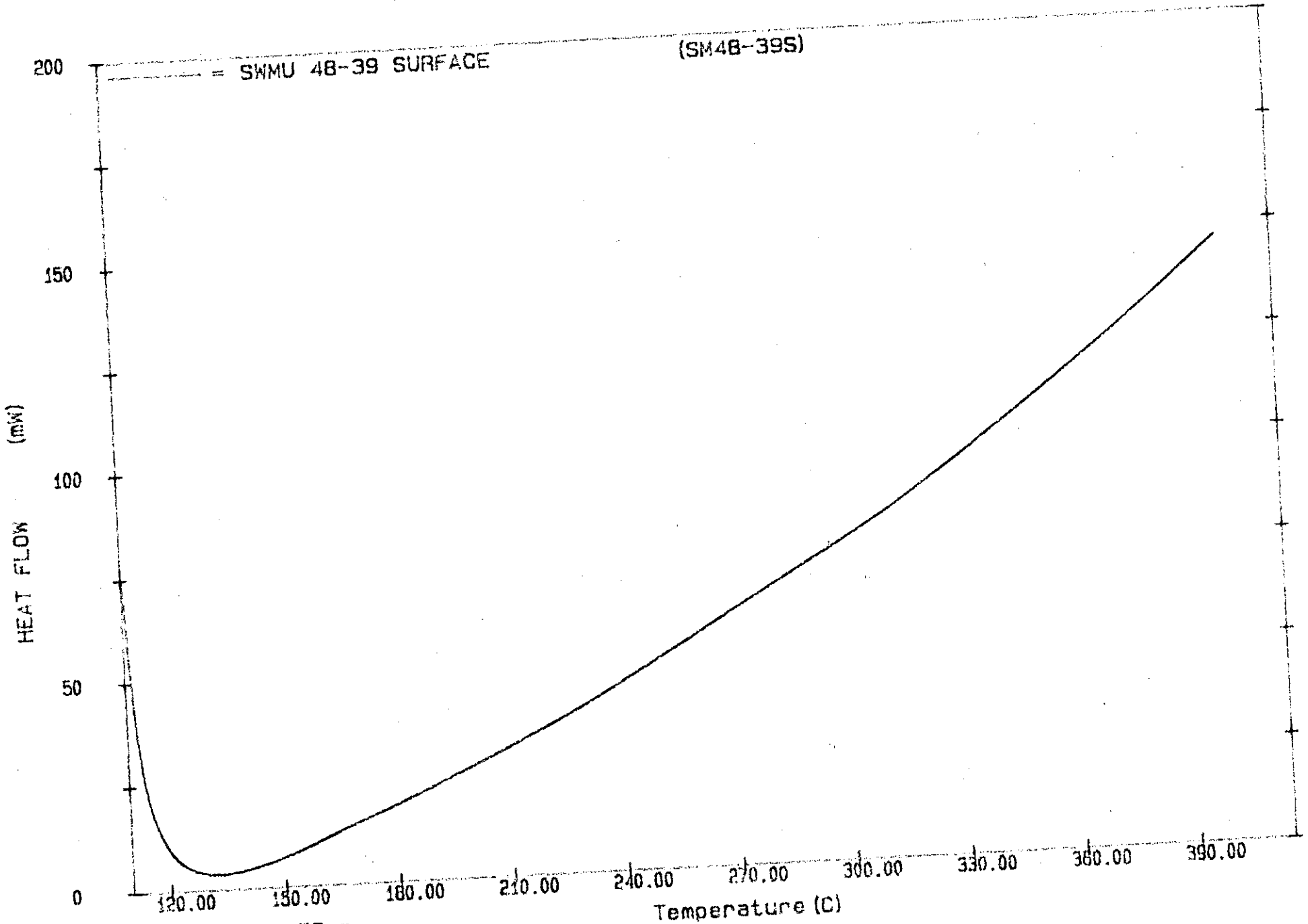
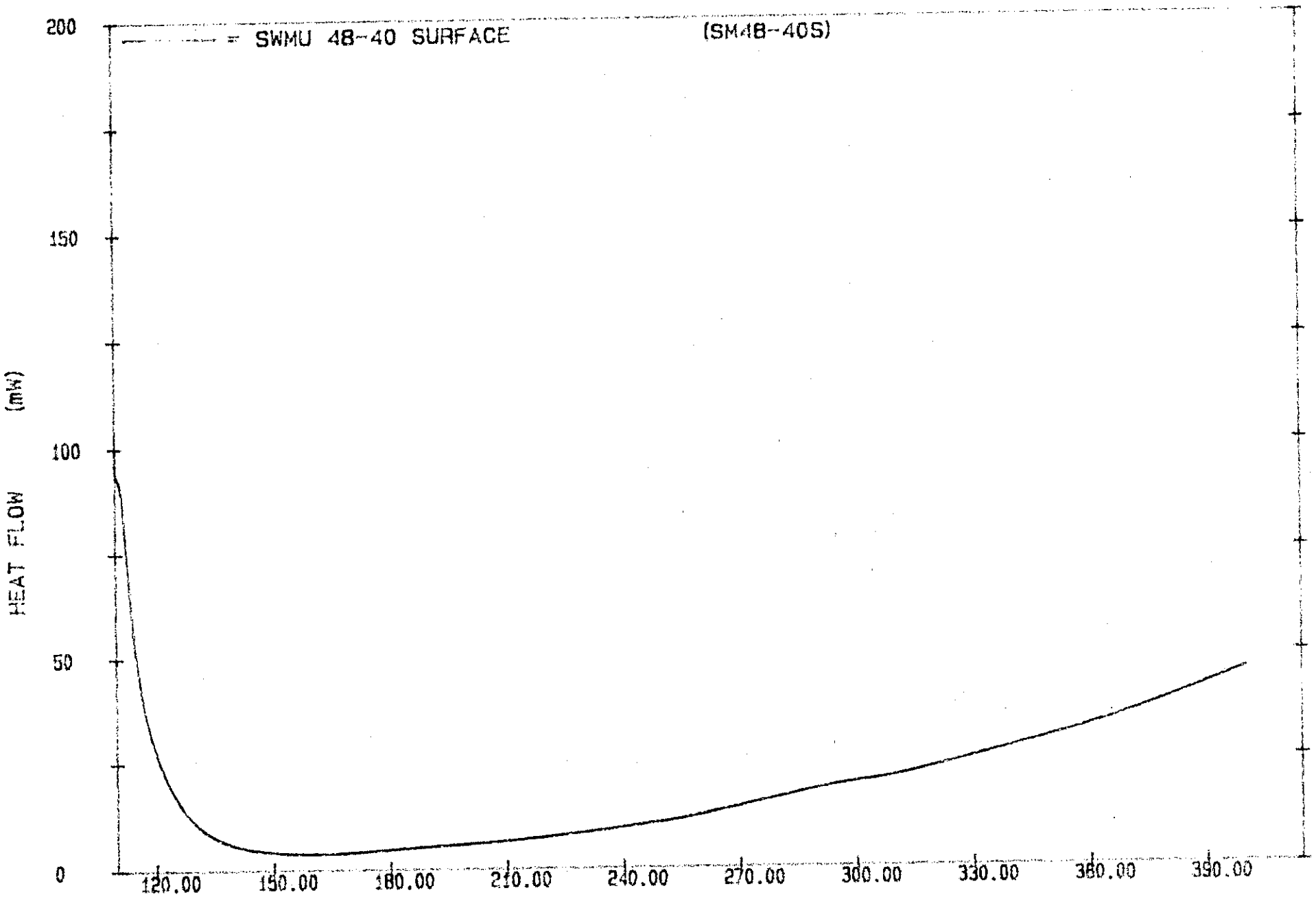
PE[illegible]IN-ELMER DSC7



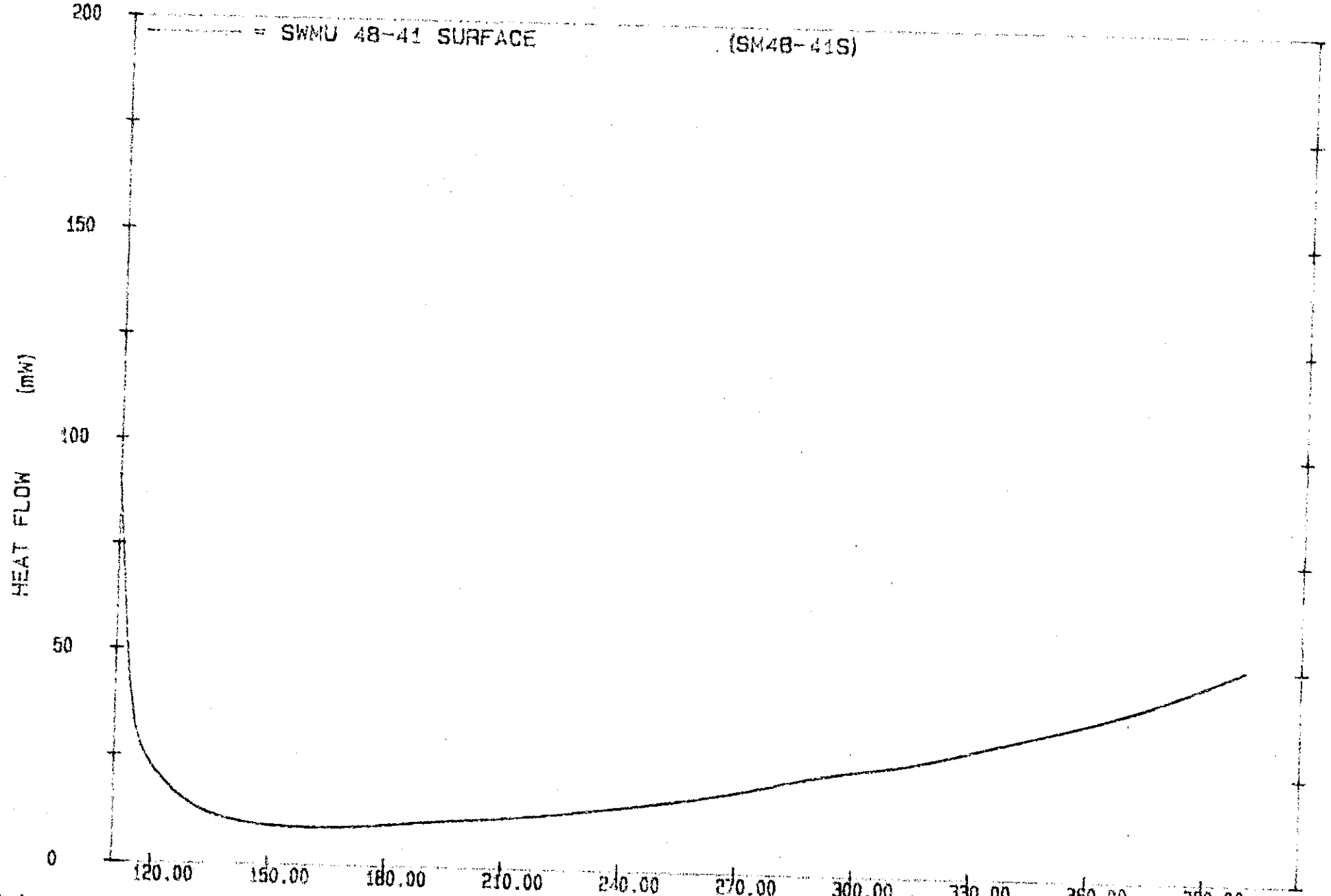
Date: Aug 04, 1996 5:59pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-39S ST 9-10-96

PERKIN-ELMER DSC7



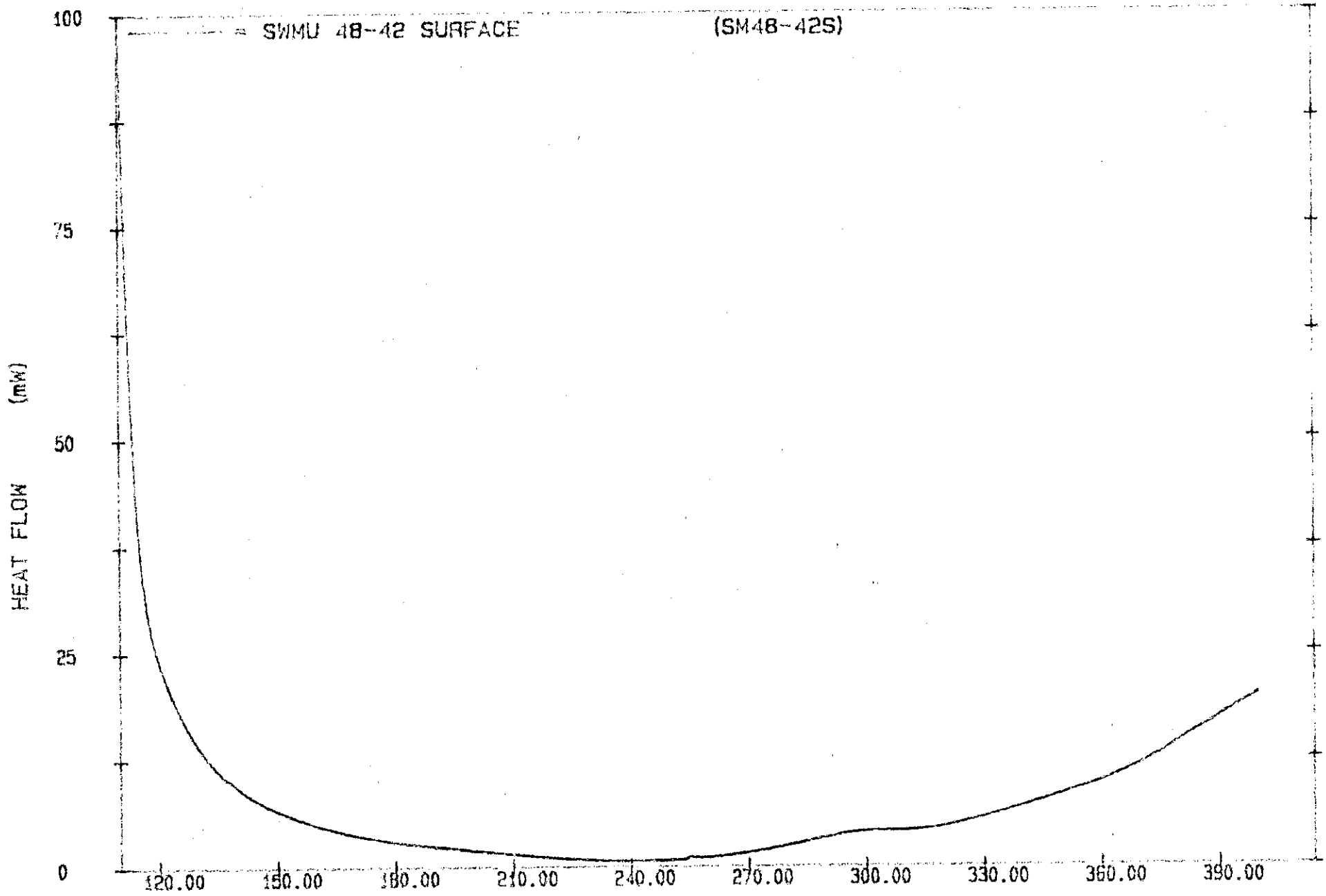
Date: Aug 04, 1996 6:56pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
FII-[illegible] SM48-40S ST 9-10-96

PERKIN-ELMER DSC7



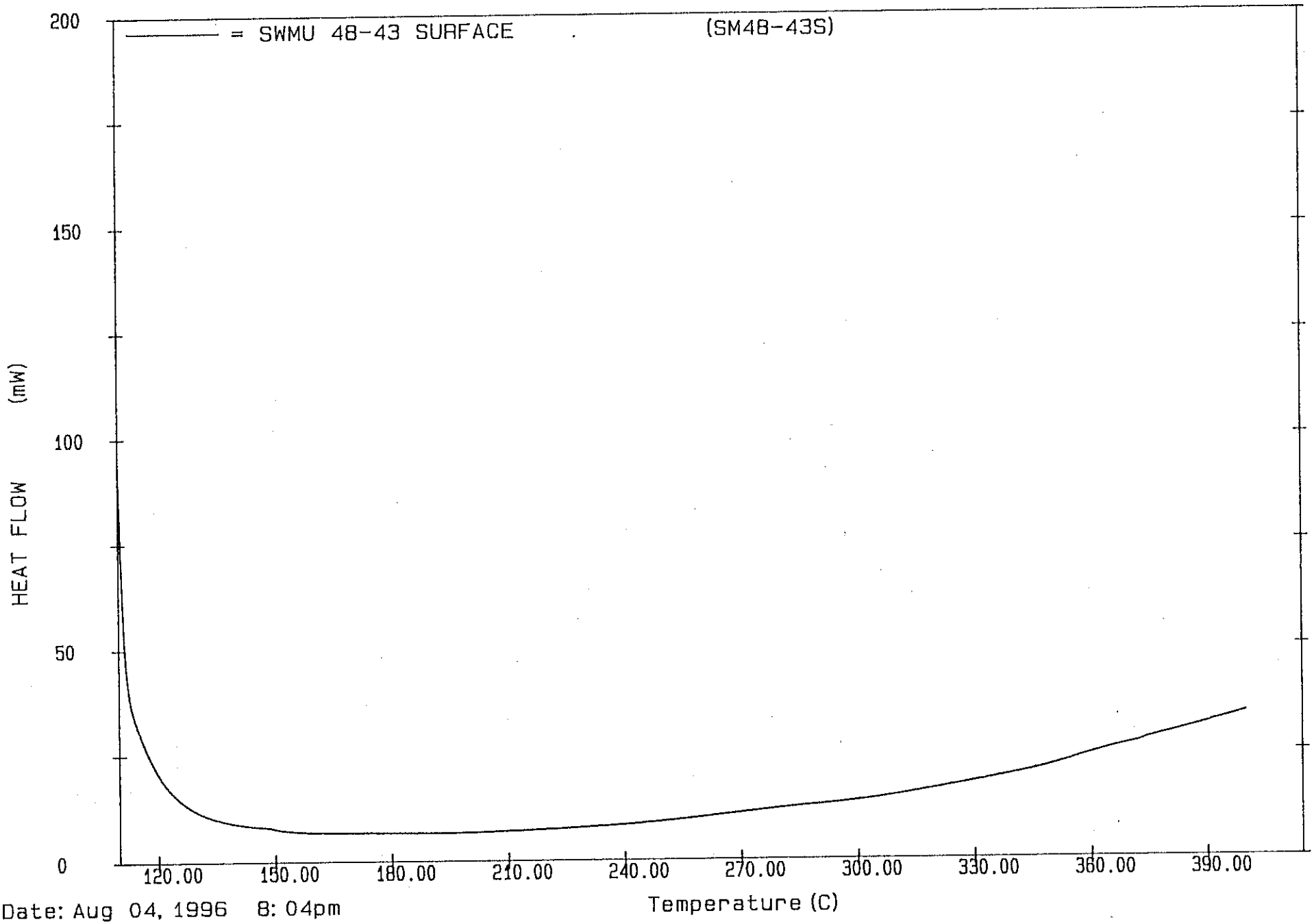
Date: Aug 04, 1996 7: 17pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File 1: 48-41S ST 9-10-96

PERK -ELMER DSC7



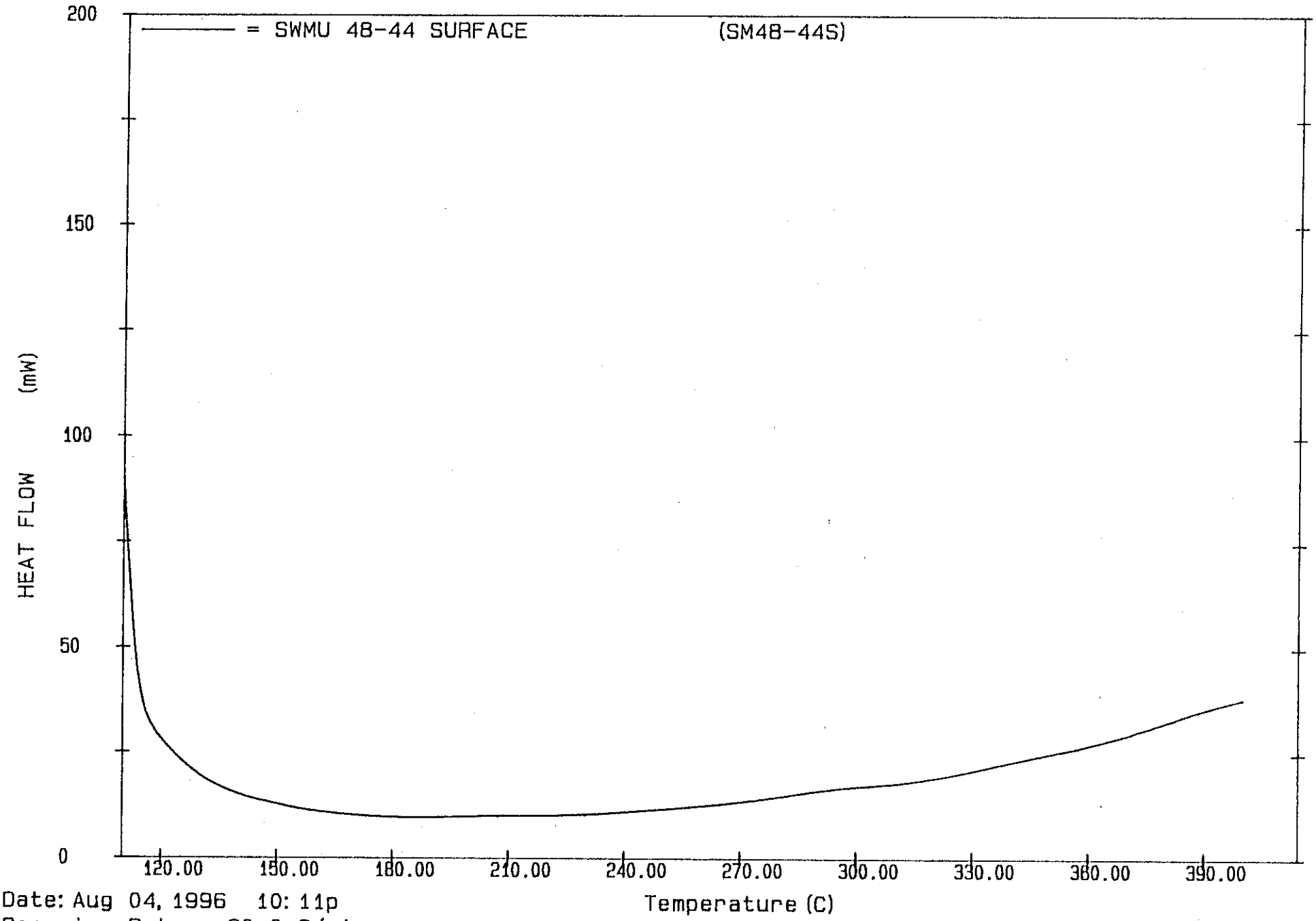
Date: Aug 04, 1996 7:42pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SW48-42S ST 9-10-96

PERKIN-ELMER DSC7



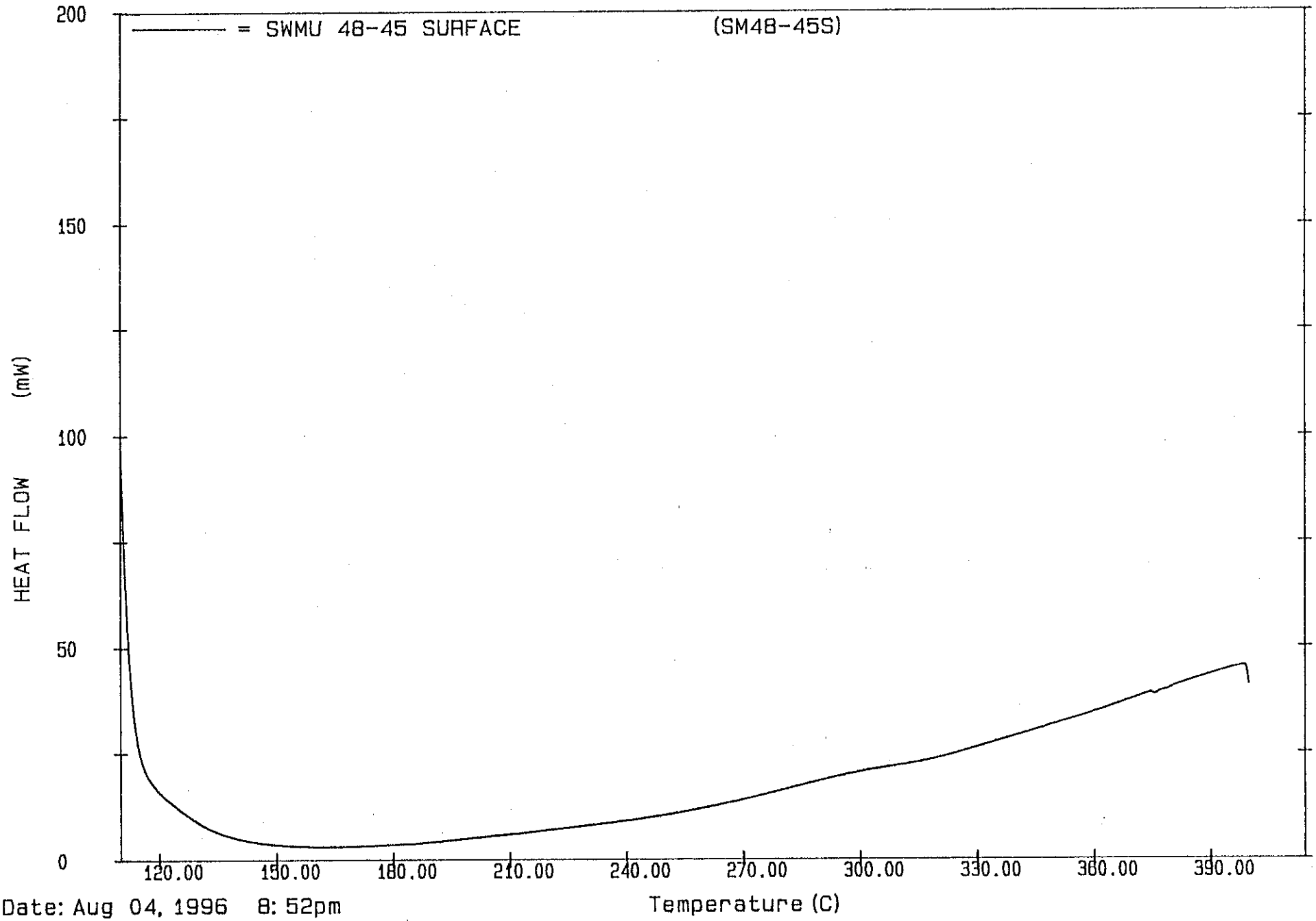
Date: Aug 04, 1996 8:04pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-43S ST 9-10-96

PERKIN-ELMER DSC7



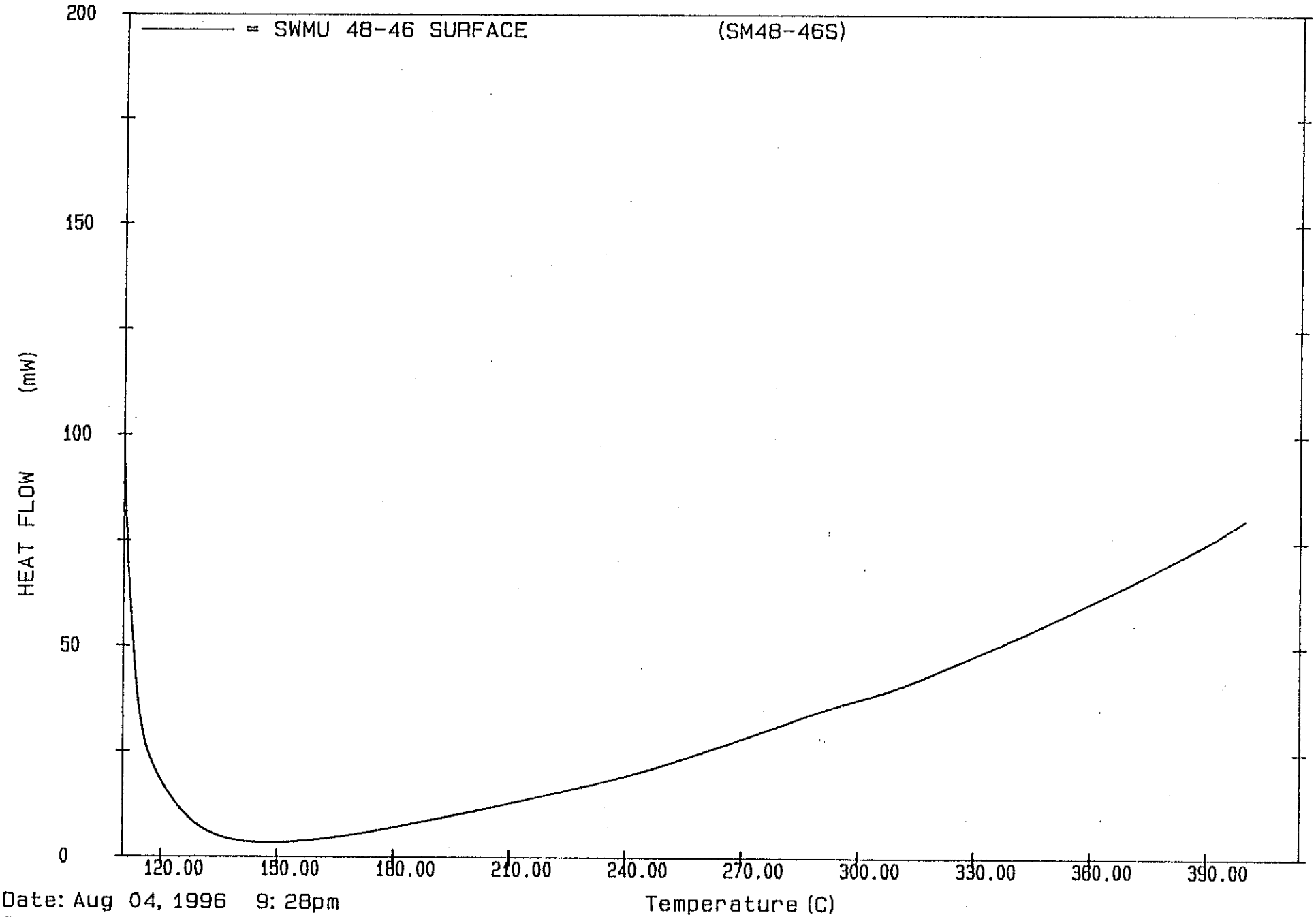
Date: Aug 04, 1996 10: 11p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File: SM48-44S ST 9-10-96

PERKIN-ELMER DSC7



Date: Aug 04, 1996 8:52pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File SM48-45S ST 9-10-96

PERKIN-ELMER DSC7



Date: Aug 04, 1996 9:28pm
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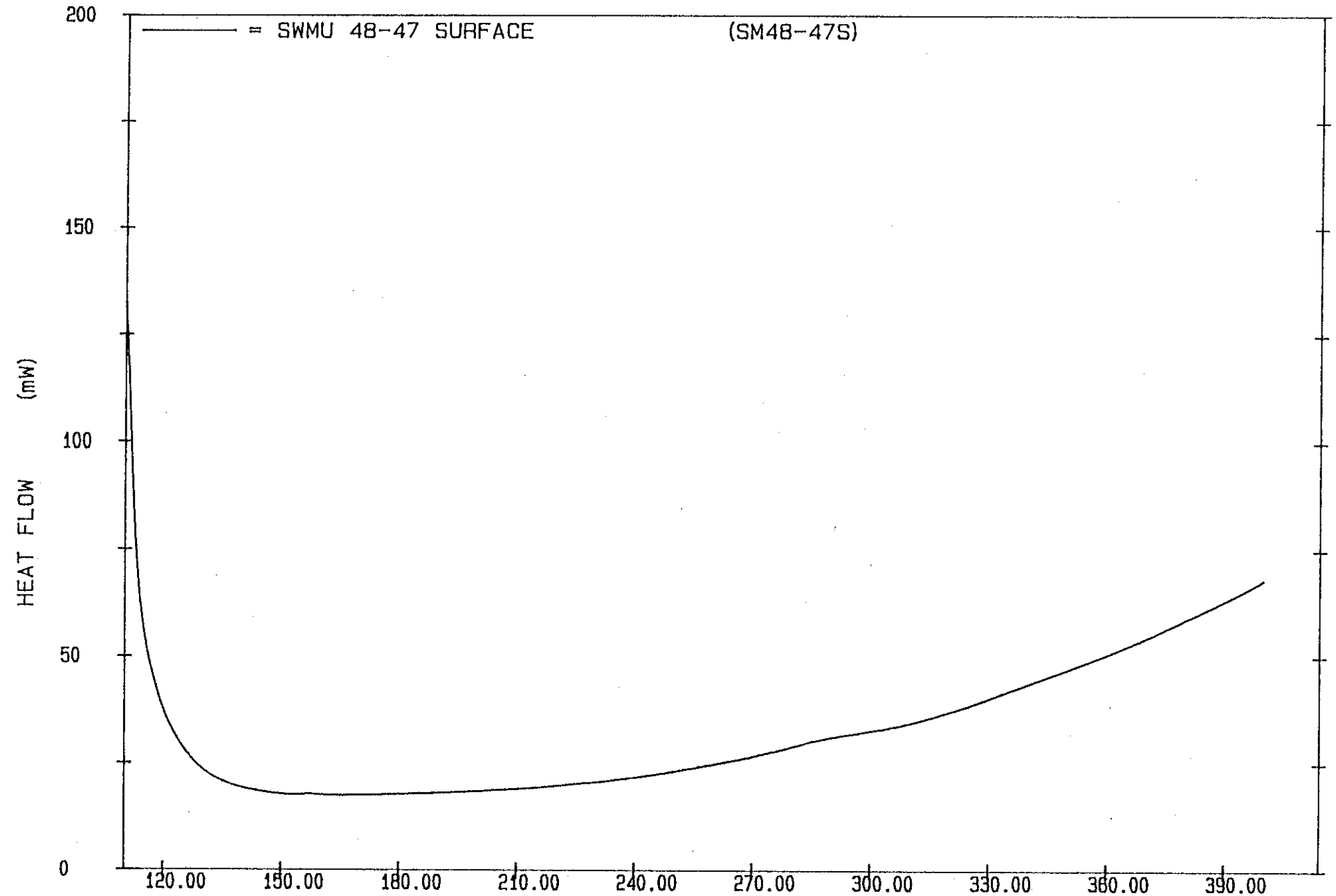
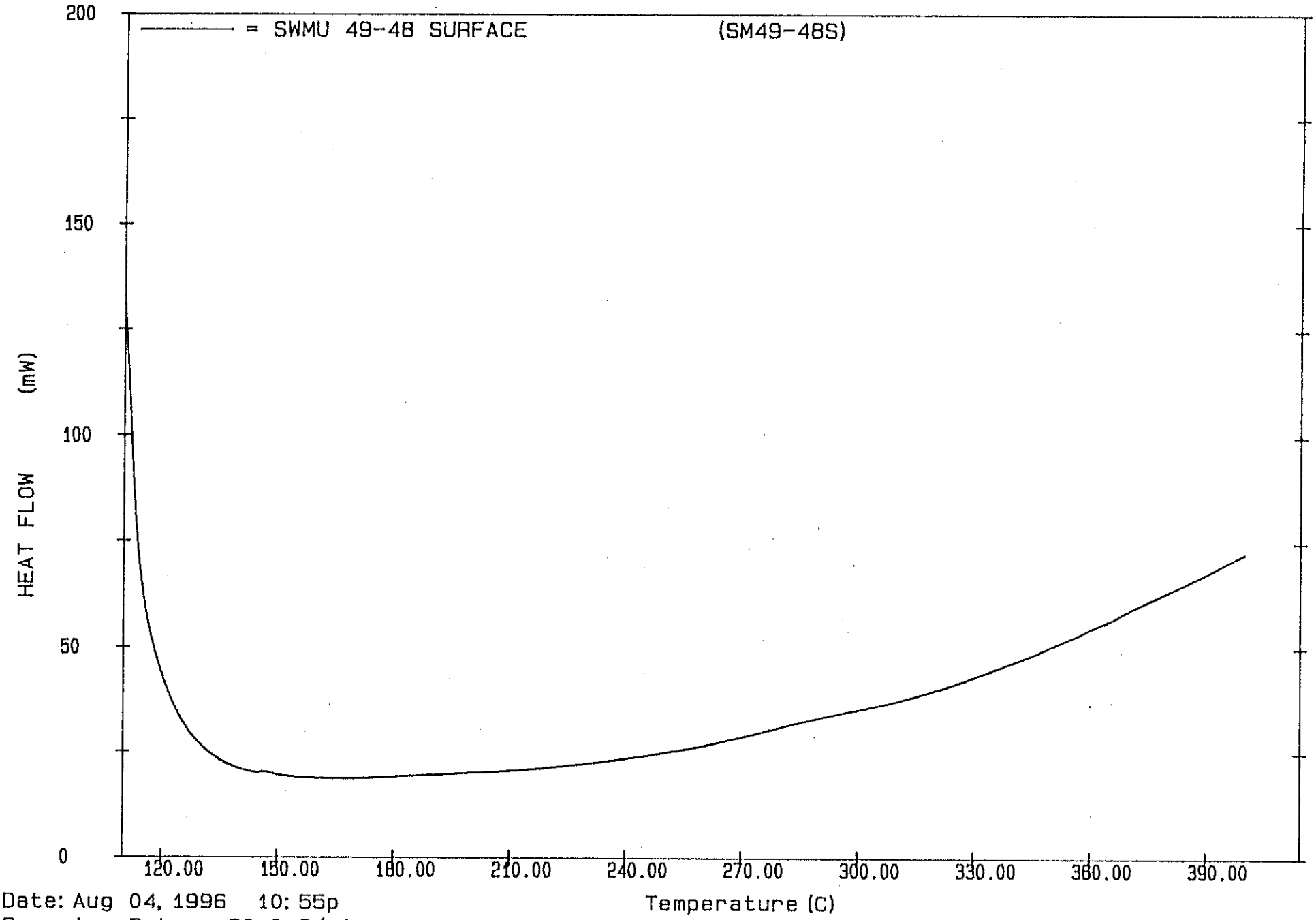
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-46S ST 9-10-96

PERKIN-ELMER DSC7



Date: Aug 04, 1996 10:33p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48-47S ST 9-10-96

PERKIN-ELMER DSC7



Date: Aug 04, 1996 10:55p
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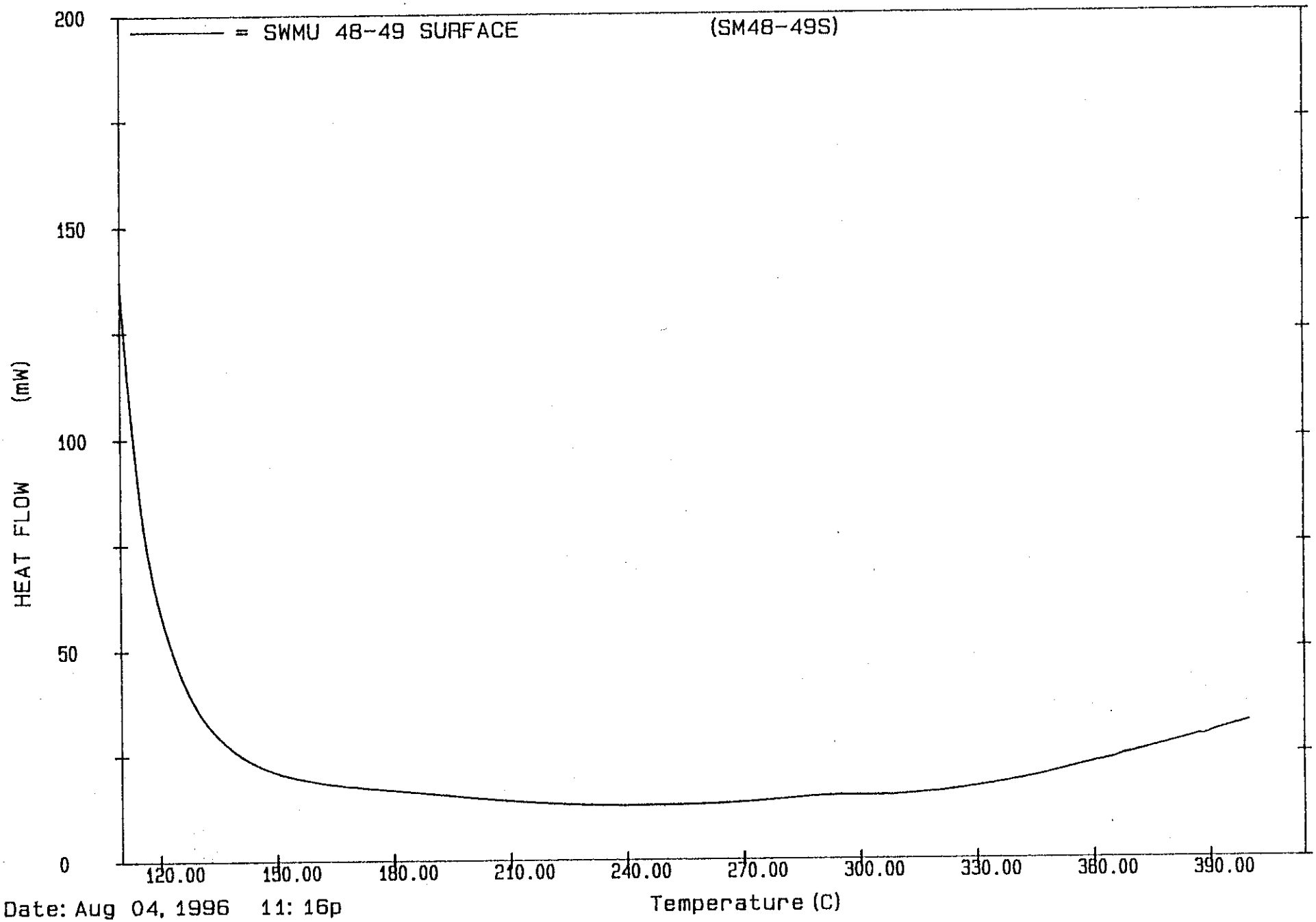
Sample Wt: 0.000 mg Path: C:\PE\
File: SM49-48S ST 9-10-96

PERKIN-ELMER DSC7



Date: Aug 04, 1996 11: 16p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File SM48-49S ST 9-10-96

PERKIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 1

TESTER COOK/WILHELM / J Hunt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		/	1.	X	1.	1.	Neg
2.		/	2.	X	2.	2.	
3.		/	3.	X	3.	3.	
4.		/	4.	X	4.	4.	
5.		/	5.	X	5.	5.	
6.		/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 2

TESTER COOK / WILHELMY / S Hunt

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	CALORIMETRIC TEST: Results
	Yes	No	Yes	No		
1.		/		X	1.	1. Neg
2.		/		X	2.	2.
3.		/		X	3.	3.
4.		/		X	4.	4.
5.		/		X	5.	5.
6.		/		X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 3

TESTER COOK/WILHELMY / Schmidt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		/	1.	X	1.	1.	Neg
2.		/	2.	X	2.	2.	
3.		/	3.	X	3.	3.	
4.		/	4.	X	4.	4.	
5.		/	5.	X	5.	5.	
6.		/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 4

TESTER COOK / WILHELMY / SCHMIDT

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes	No	Yes	No			
1.		/	1.	X	1.	1.	Neg
2.		/	2.	X	2.	2.	
3.		/	3.	X	3.	3.	
4.		/	4.	X	4.	4.	
5.		/	5.	X	5.	5.	
6.		/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 5

TESTER COOK / WILHELM / Wright

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	X	1.	1.	neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 6

TESTER COOK/WILHELM/Bright

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓	1.	X	1.	1.	Neg
2.		✓	2.	X	2.	2.	
3.		✓	3.	X	3.	3.	
4.		✓	4.	X	4.	4.	
5.		✓	5.	X	5.	5.	
6.		✓	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# S~~S~~ 7

TESTER COOK / WILHELMY / S2hrjt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	/	1.	X	1.	Neg
2.	/	2.	X	2.	
3.	/	3.	X	3.	
4.	/	4.	X	4.	
5.	/	5.	X	5.	
6.	/	6.	X	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# ~~SS~~ 8

TESTER COOK/WILHELMY/[illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	X	1.	1.	Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS9

TESTER WILHELMY / COOK / S Zhyt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH	CALORIMETRIC TEST: Results
1.				X	1.	1. Neg
2.		/		X	2.	2.
3.		/		X	3.	3.
4.		/		X	4.	4.
5.		/		X	5.	5.
6.		/		X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--~~SURFACE~~
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# S~~S~~ 10

TESTER COOK / WILHELMY / S Hist

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	X	1.	1.	Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 11

TESTER COOK / WILHELMY / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	/	1.	X	1.	Neg
2.	/	2.	X	2.	
3.	/	3.	X	3.	
4.	/	4.	X	4.	
5.	/	5.	X	5.	
6.	/	6.	X	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 1 2

TESTER COOK / WILHELMY / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	/	1.	X	1.	1.	Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 13

TESTER COOK / WILHELMY / SLIGHT

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	/	1.	X	1.	1.	NES
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 14

TESTER COOK / WILHELM / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	/	1.	X	1.	1.	Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 15

TESTER COOK / WILHELMY / SCHMIT

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	/	1.	X	1.	1.	Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 16

TESTER COOK / WILHELM / SCHMIT

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			
1.	/	1.	X	1.	1.	Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 17

TESTER COOK / WILHELM / SCHMIT

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH	CALORIMETRIC TEST: Results
1.		✓		X	1.	1.
2.		✓		X	2.	2.
3.		✓		X	3.	3.
4.		✓		X	4.	4.
5.		✓		X	5.	5.
6.		✓		X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

~~S--SURFACE~~
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 09/04/96 SAMPLE NO# SS 18

TESTER COOK / WILHELMY / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	X	1.	1.	Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 19

TESTER Cook Thrift / Dwight

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Neg
1.	/	1.	/	1.	1.	
2.	/	2.	/	2.	2.	
3.	/	3.	/	3.	3.	
4.	/	4.	/	4.	4.	
5.	/	5.	/	5.	5.	
6.	/	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 20

TESTER Thrift / Cook / S 2kg f

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# S~~S~~ 21

TESTER Thrift / Cook / s 2hyt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 22

TESTER Thrift / Cook / Wright

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 23

TESTER Thrift / Cook / Schutt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Yes
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# S~~S~~ 24

TESTER Thrift / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	Neg
2.	✓	2.	✓	2.	
3.	✓	3.	✓	3.	
4.	✓	4.	✓	4.	
5.	✓	5.	✓	5.	
6.	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 25

TESTER Thrift / Cook / Schaft

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

~~S~~--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 26

TESTER Thrift / Cook / Schmit

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 27

TESTER Thrift / Cook / Wright

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes	No	Yes	No			
1.		✓		✓	1.	1.	Neg
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 28

TESTER Thrift / Cook / S. Wright

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.		1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 29

TESTER Thrift / Cook / Schmitt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓		✓	1.	1.	Neg
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 30

TESTER Thrift / Cook / Schmidt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH	CALORIMETRIC TEST: Results
1.		✓		✓	1.	1.
2.		✓		✓	2.	2.
3.		✓		✓	3.	3.
4.		✓		✓	4.	4.
5.		✓		✓	5.	5.
6.		✓		✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 31

TESTER Thrift / Cook / Schmidt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓		✓	1.	1.	N/S
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 32

TESTER Thrift / Cook / Schmidt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓		✓	1.	1.	Neg
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓			6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# ~~SS~~ 33

TESTER Thrift / Cook / Schrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	/	1.	/	1.	Neg
2.	/	2.	/	2.	
3.	/	3.	/	3.	
4.	/	4.	/	4.	
5.	/	5.	/	5.	
6.	/	6.	/	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 34

TESTER Thrift / Cook / Schuyt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Neg
1.	/	1.	/	1.	1.	
2.	/	2.	/	2.	2.	
3.	/	3.	/	3.	3.	
4.	/	4.	/	4.	4.	
5.	/	5.	/	5.	5.	
6.	/	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# S8 35

TESTER Thrift / Cook / .12kgf

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1.	Neg
2.	X	2.	/	2.	2.	
3.	X	3.	/	3.	3.	
4.	X	4.	/	4.	4.	
5.	X	5.	/	5.	5.	
6.	X	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 36

TESTER Thrift / Cook / Shuff

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	X	1.	✓	1.	1.	Neg
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# S8 37

TESTER Thrift / Cook / Schaaf

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X	1.	✓	1.	1.	No
2.		X	2.	✓	2.	2.	
3.		X	3.	✓	3.	3.	
4.		X	4.	✓	4.	4.	
5.		X	5.	✓	5.	5.	
6.		X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-4-96 SAMPLE NO# SS 38

TESTER Thrift / Cook / Schaft

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	X	1.	✓	1.	1.	Neg
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# S~~S~~ 39

TESTER Thrift / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1.
2.	X	2.	✓	2.	2.
3.	X	3.	✓	3.	3.
4.	X	4.	✓	4.	4.
5.	X	5.	✓	5.	5.
6.	X	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 40

TESTER Thrift / Cook / [illegible]

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	X	1.	✓	1.	1.	neg
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 41

TESTER Thrift / Cook / Szhyj

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X	1.	✓	1.	1.	Neg
2.		X	2.	✓	2.	2.	
3.		X	3.	✓	3.	3.	
4.		X	4.	✓	4.	4.	
5.		X	5.	✓	5.	5.	
6.		X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-4-96 SAMPLE NO# SS 42

TESTER Thrift / Cook / Wright

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X	1.	✓	1.	1.	N/R
2.		X	2.	✓	2.	2.	
3.		X	3.	✓	3.	3.	
4.		X	4.	✓	4.	4.	
5.		X	5.	✓	5.	5.	
6.		X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 43

TESTER Thrift / Cook/S Zhuff

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes	No	Yes	No			
1.		X	1.	✓	1.	1.	Neg
2.		X	2.	✓	2.	2.	
3.		X	3.	✓	3.	3.	
4.		X	4.	✓	4.	4.	
5.		X	5.	✓	5.	5.	
6.		X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 44

TESTER Thrift / Cook / Schutt

	FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.		X	1.	✓	1.	1. Neg
2.		X	2.	✓	2.	2.
3.		X	3.	✓	3.	3.
4.		X	4.	✓	4.	4.
5.		X	5.	✓	5.	5.
6.		X	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

~~S--SURFACE~~
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# ~~SS~~ 45

TESTER Thrift / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	Neg
2.	X	2.	✓	2.	
3.	X	3.	✓	3.	
4.	X	4.	✓	4.	
5.	X	5.	✓	5.	
6.	X	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 46

TESTER Thrift / Cook / Schaaf

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X	1.	✓	1.	1.	Neg
2.		X	2.	✓	2.	2.	
3.		X	3.	✓	3.	3.	
4.		X	4.	✓	4.	4.	
5.		X	5.	✓	5.	5.	
6.		X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 47

TESTER Thrift / Cook / S Hunt

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes	No	Yes	No			
1.		X	1.	✓	1.	1.	Neg
2.		X	2.	✓	2.	2.	
3.		X	3.	✓	3.	3.	
4.		X	4.	✓	4.	4.	
5.		X	5.	✓	5.	5.	
6.		X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

~~S--SURFACE~~
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 48

TESTER Thrift / Cook / S Shuff

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X	1.	✓	1.	1.	Nex
2.		X	2.	✓	2.	2.	
3.		X	3.	✓	3.	3.	
4.		X	4.	✓	4.	4.	
5.		X	5.	✓	5.	5.	
6.		X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/4/96 SAMPLE NO# SS 49

TESTER Thrift / Cook / Schmidt

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	CALORIMETRIC TEST: Results
	Yes	No	Yes	No		
1.		X	1.	✓	1.	1.
2.		X	2.	✓	2.	2.
3.		X	3.	✓	3.	3.
4.		X	4.	✓	4.	4.
5.		X	5.	✓	5.	5.
6.		X	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST

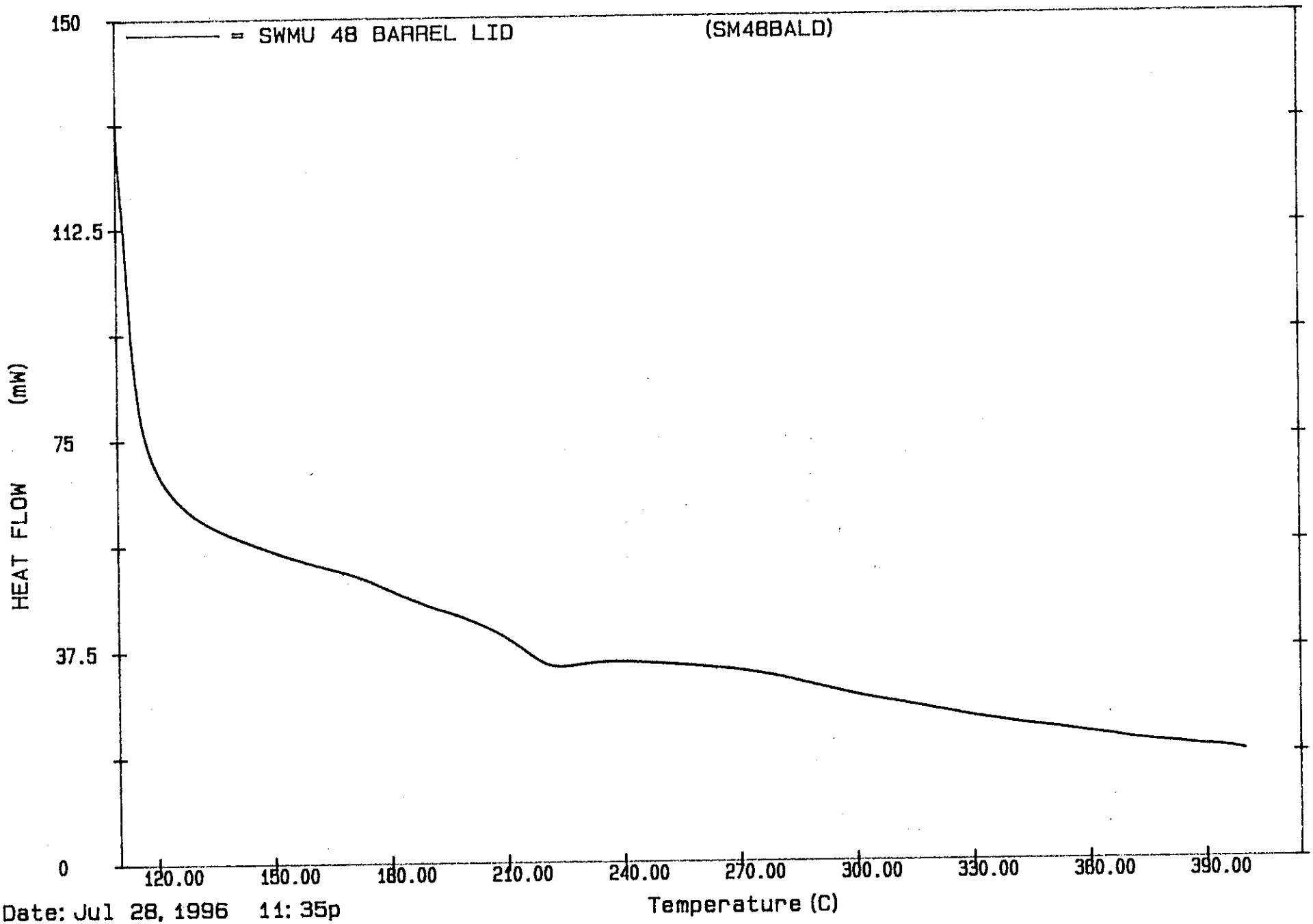
S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-3-96	SWMU 48							
	BARREL LID	N	N	N	N	Y	N	N
	EXPLODED HOLE	N	N	N	N	N	N	N
	ROY'S CRYSTALS	N	N	N	N	Y	N	N

LEGEND
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



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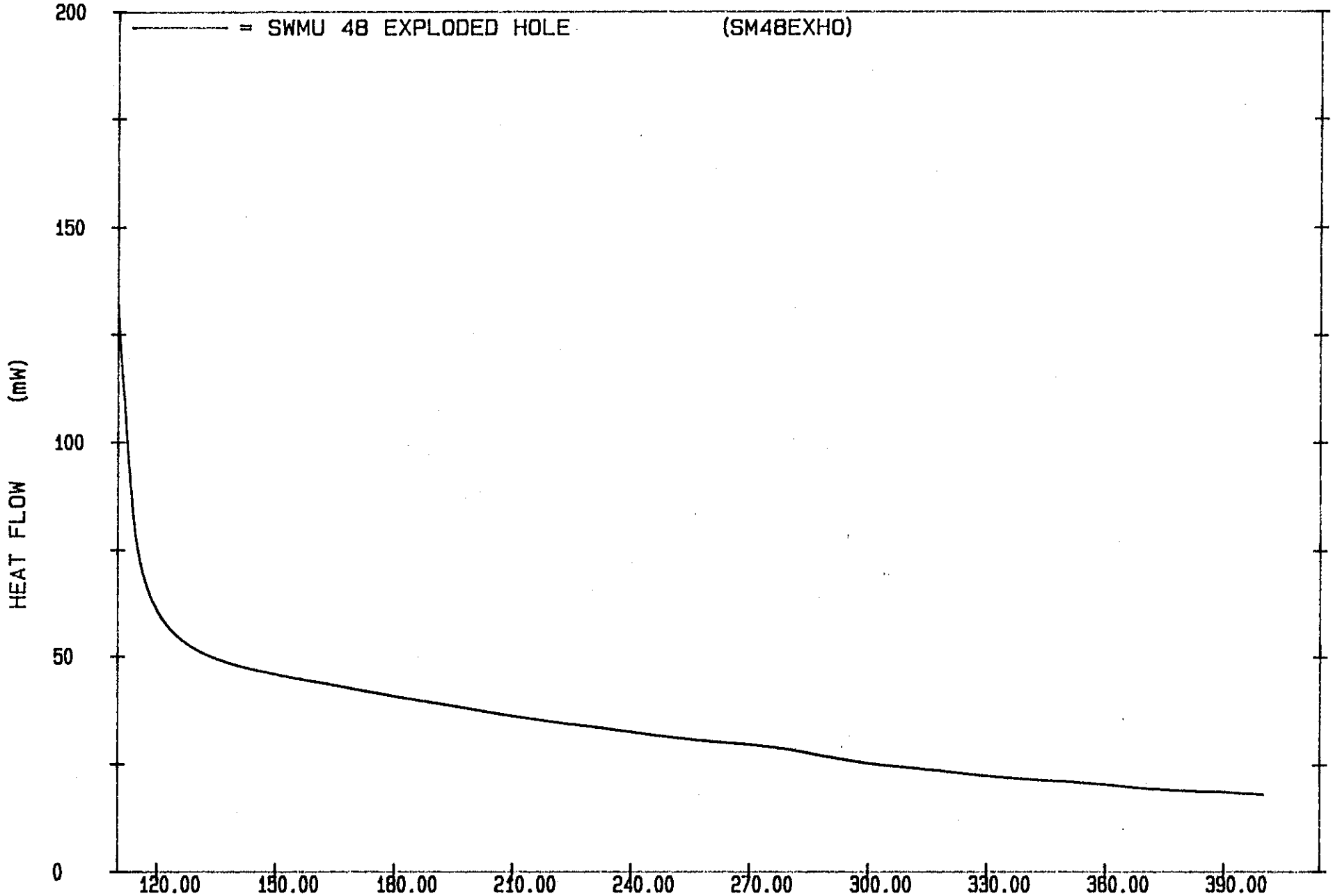
Fil. SM48BALD ST 9-3-96

PERKIN-ELMER DSC7



Date: Jul 29, 1996 00:02am
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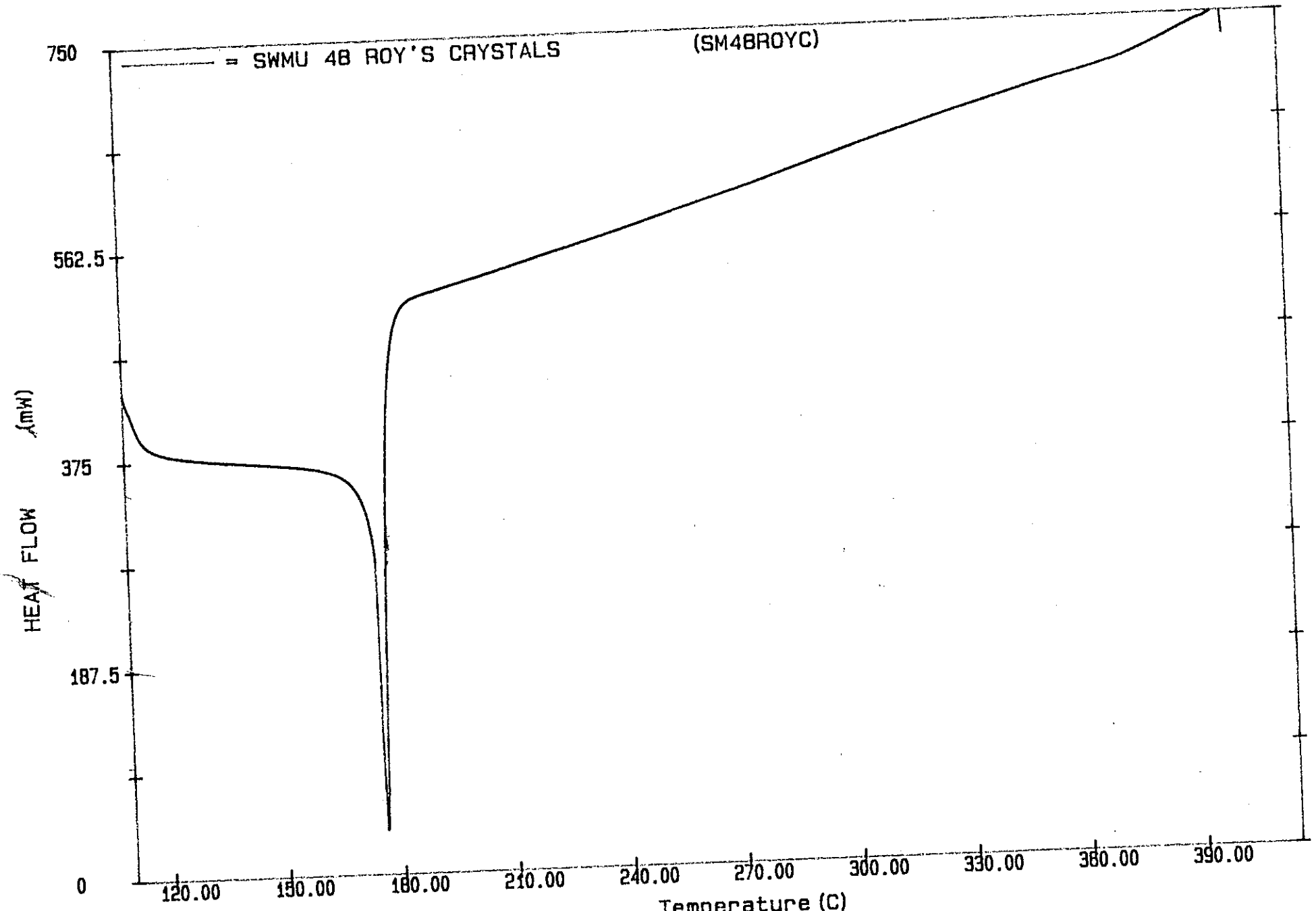
PERKIN-ELMER DSC7



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PERKIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-3-96 SAMPLE NO# ~~SS~~ S. Explosive Hole

TESTER COOK / WILHELMY / Wright

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-3-96 SAMPLE NO# 5 ~~SS~~ Barrel L.D

TESTER Cook / Wilhelm / D. Hart

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			positive
1.	/ X	1.	X	1.	1.	
2.	/ X	2.	X	2.	2.	
3.	/ X	3.	X	3.	3.	
4.	/ X	4.	X	4.	4.	
5.	/ X	5.	X	5.	5.	
6.	/ X	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-3-96 SAMPLE NO# ~~SS~~S Roy's Crystals

TESTER COOK / WILHELMY / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1. X		1. X		1.	1.	positive
2. X		2. X		2.	2.	
3. X		3. X		3.	3.	
4. X		4. X		4.	4.	
5. X		5. X		5.	5.	
6. X		6. X		6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

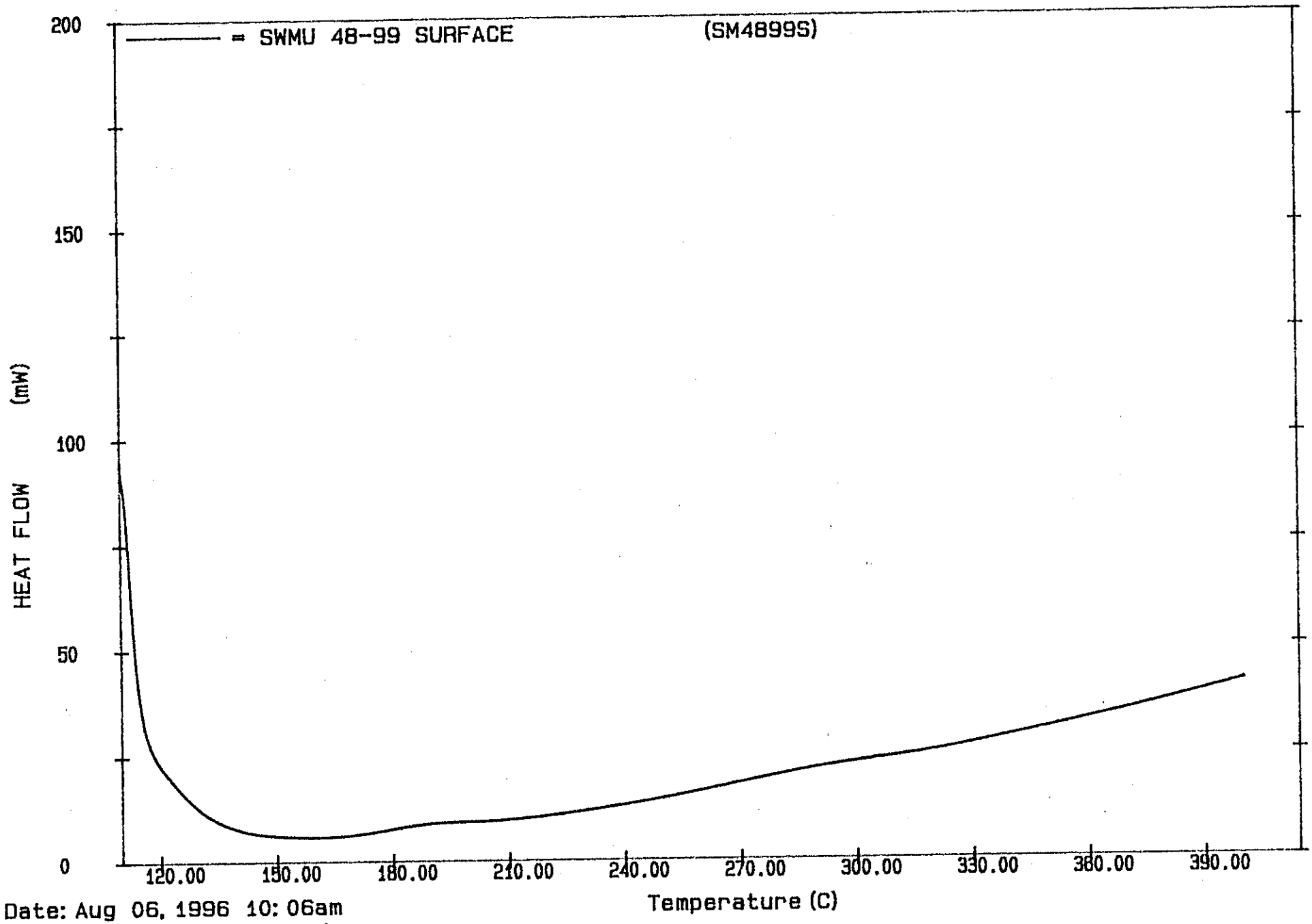
S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-12-96	SWMU 485							
	99	N	N	N	N	N	N	N
	100	N	N	N	N	N	N	N
	101	N	N	N	N	N	N	N
	102	N	N	N	N	N	N	N
	103	N	N	N	N	N	N	N
	104	N	N	N	N	Y	Y	N
	105	TRACE	N	N	N	TRACE	TRACE	N
	106	N	N	N	N	N	N	N
	~~(107)~~ ROY'S	N	N	N	N	N	N	N
	107	N	N	N	N	N	N	N

LEGEND
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



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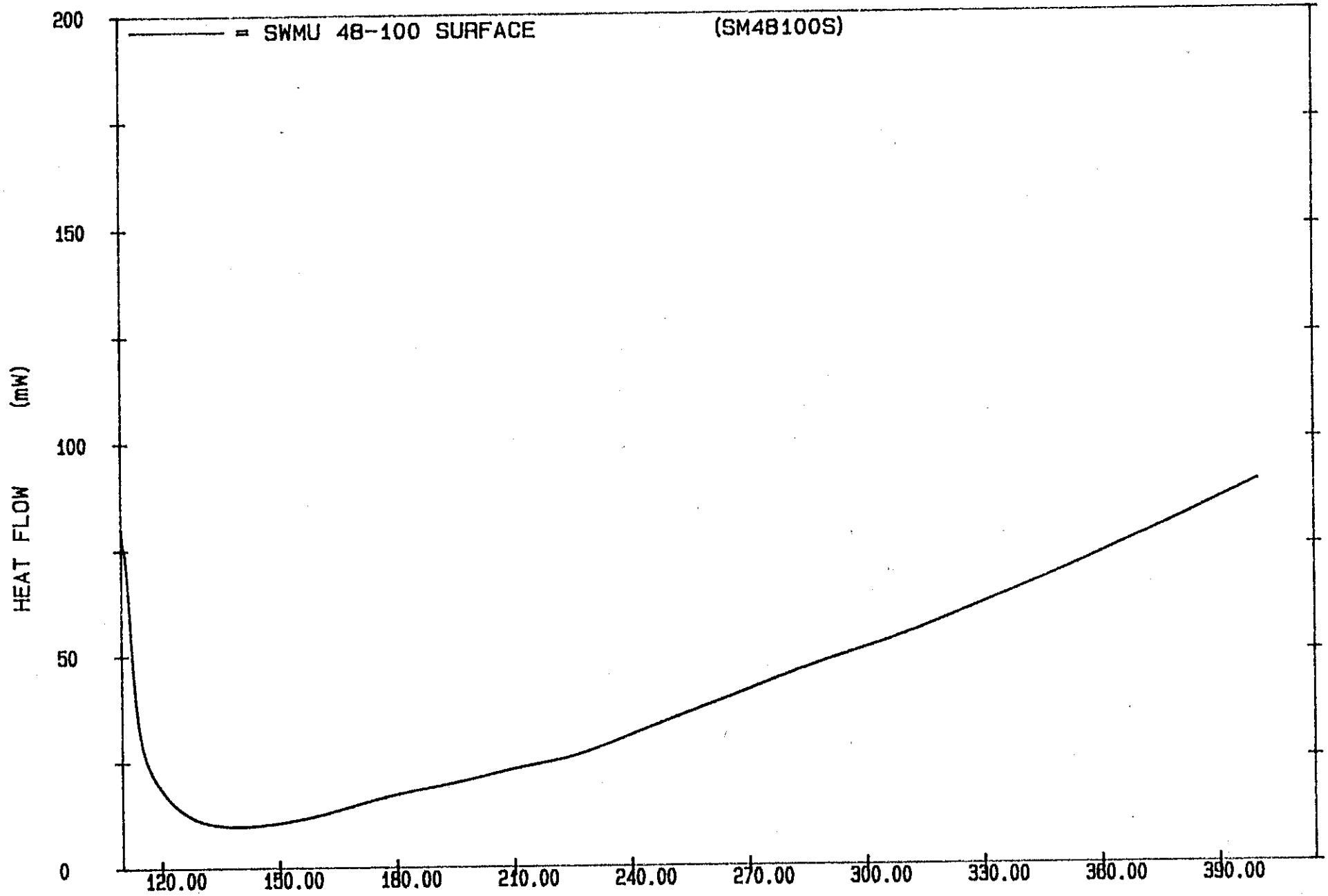
File: SM4899S ST 9-12-96

PERKIN-ELMER DSC7



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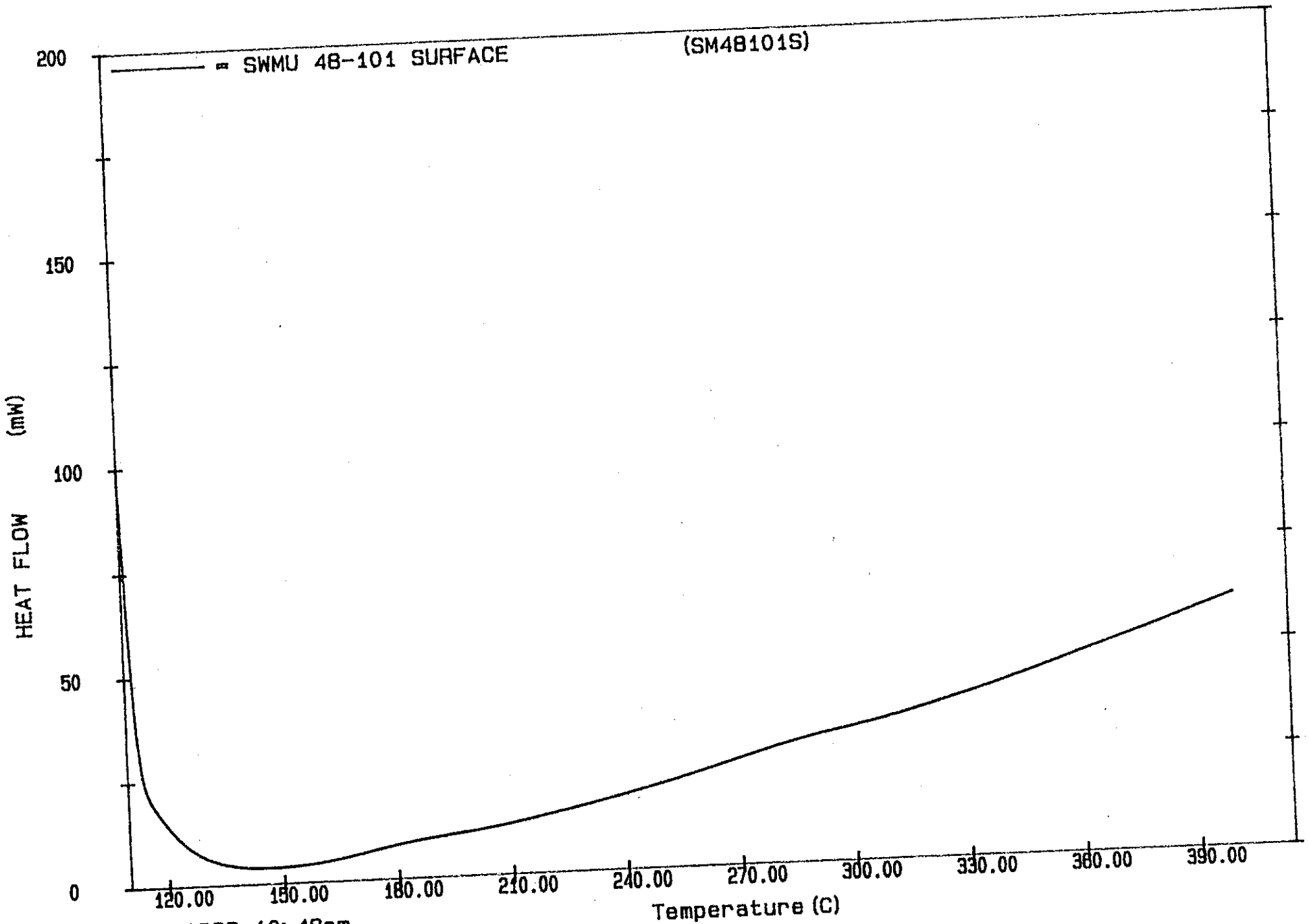

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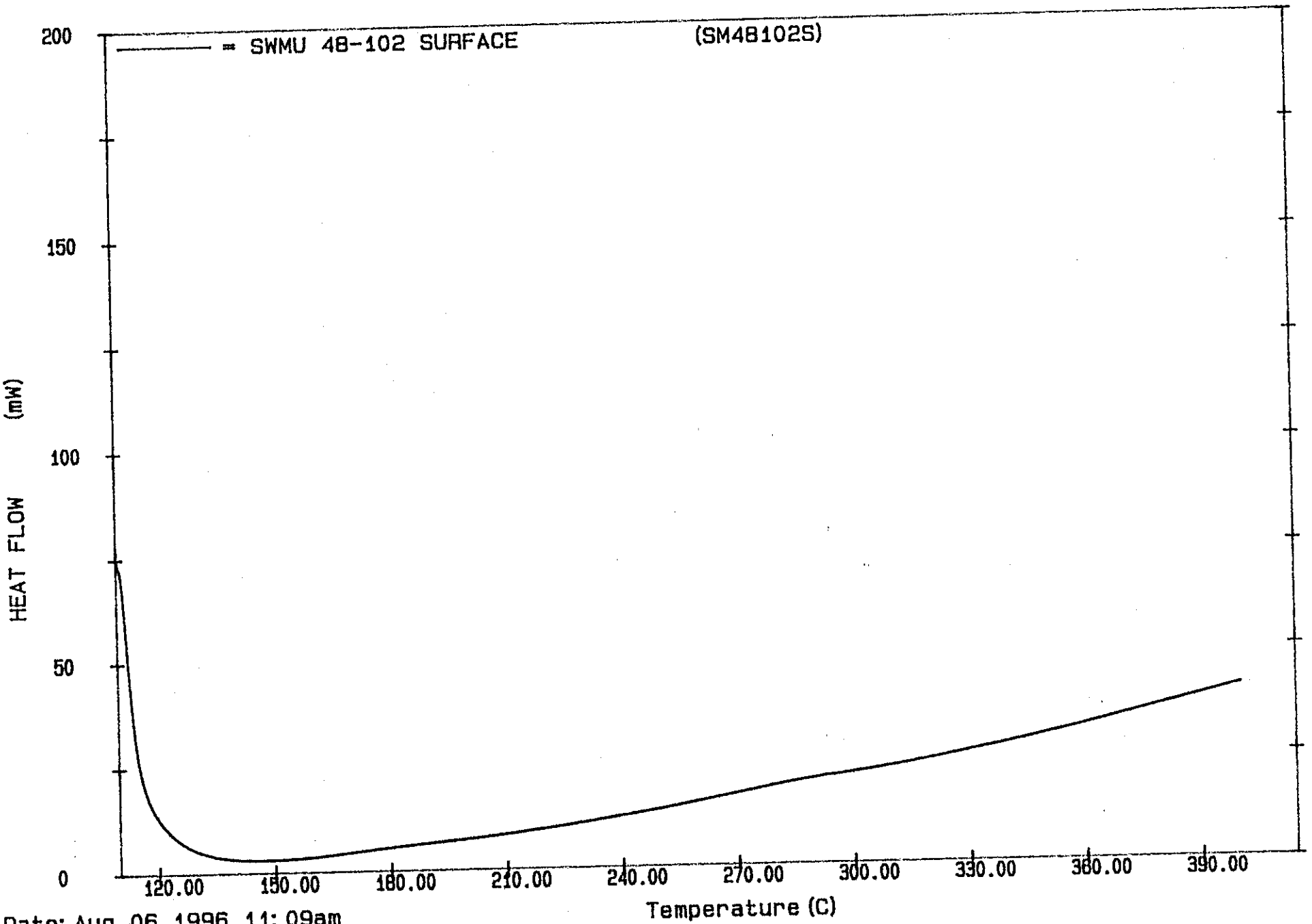
PERKIN-ELMER DSC7



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File: SM48102S ST 9-12-96

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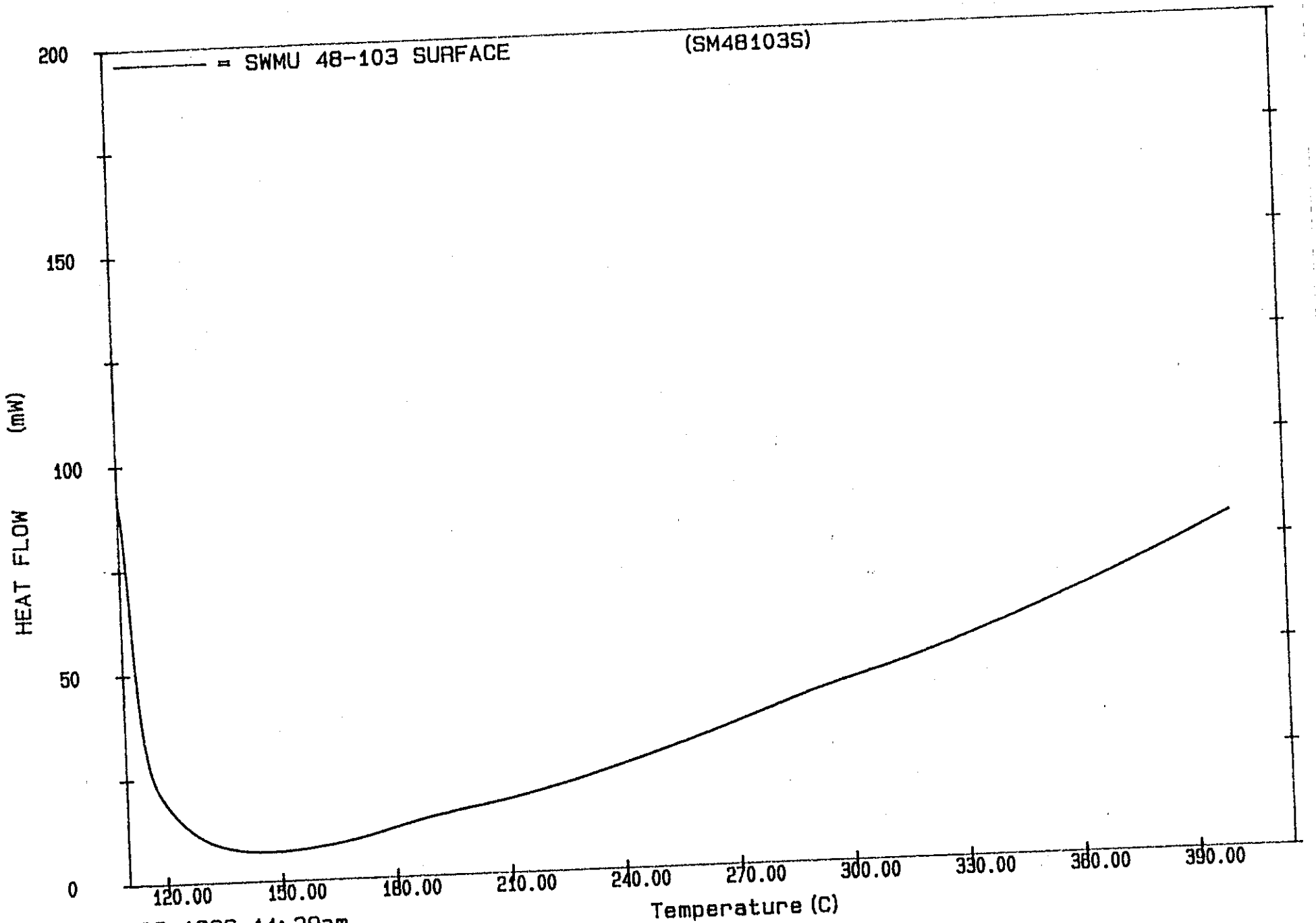

Date: Aug 06, 1996 11:29am
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Sample Wt: 0.000 mg Path: C:\PE\
File SM48103S ST 9-12-96

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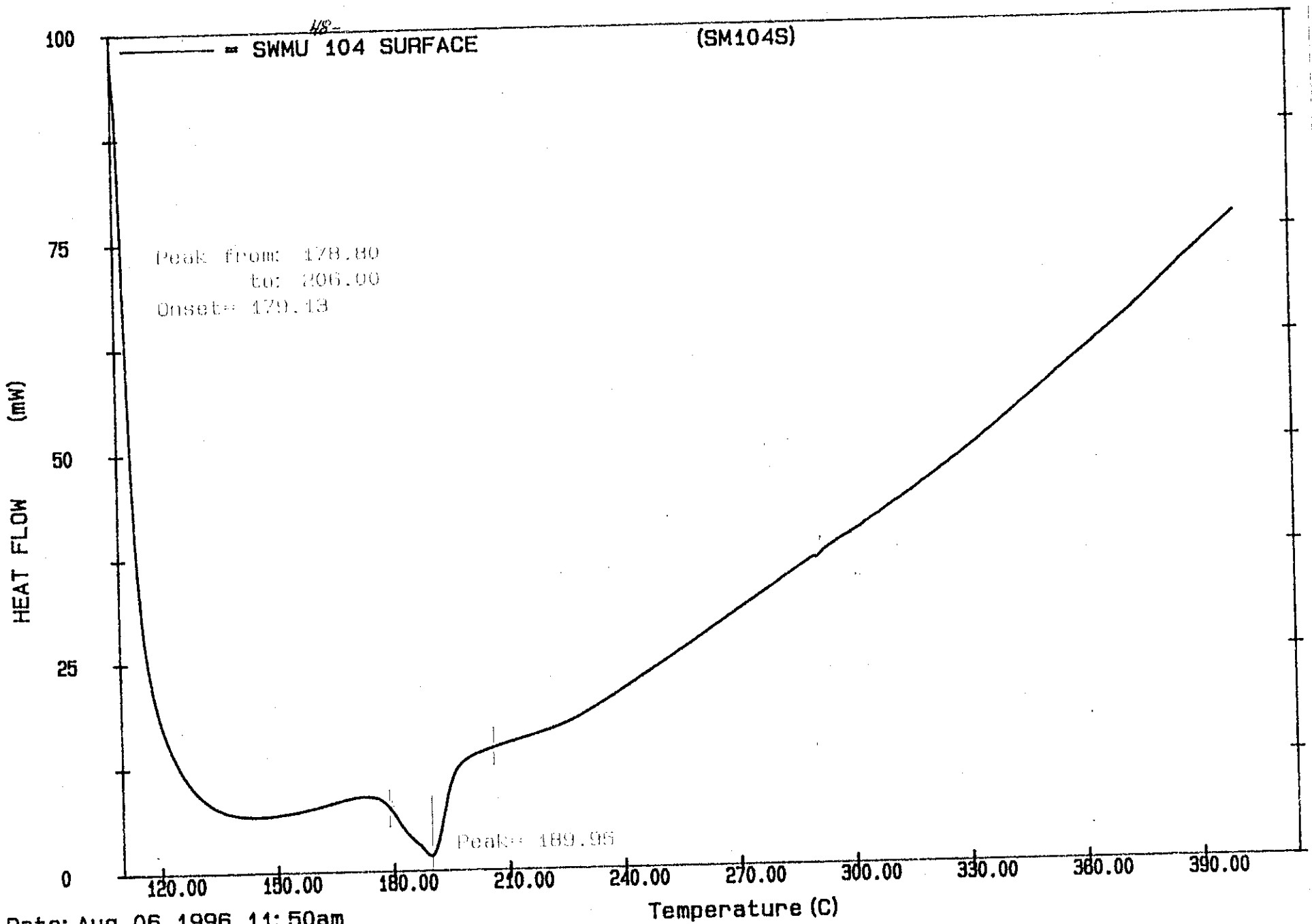

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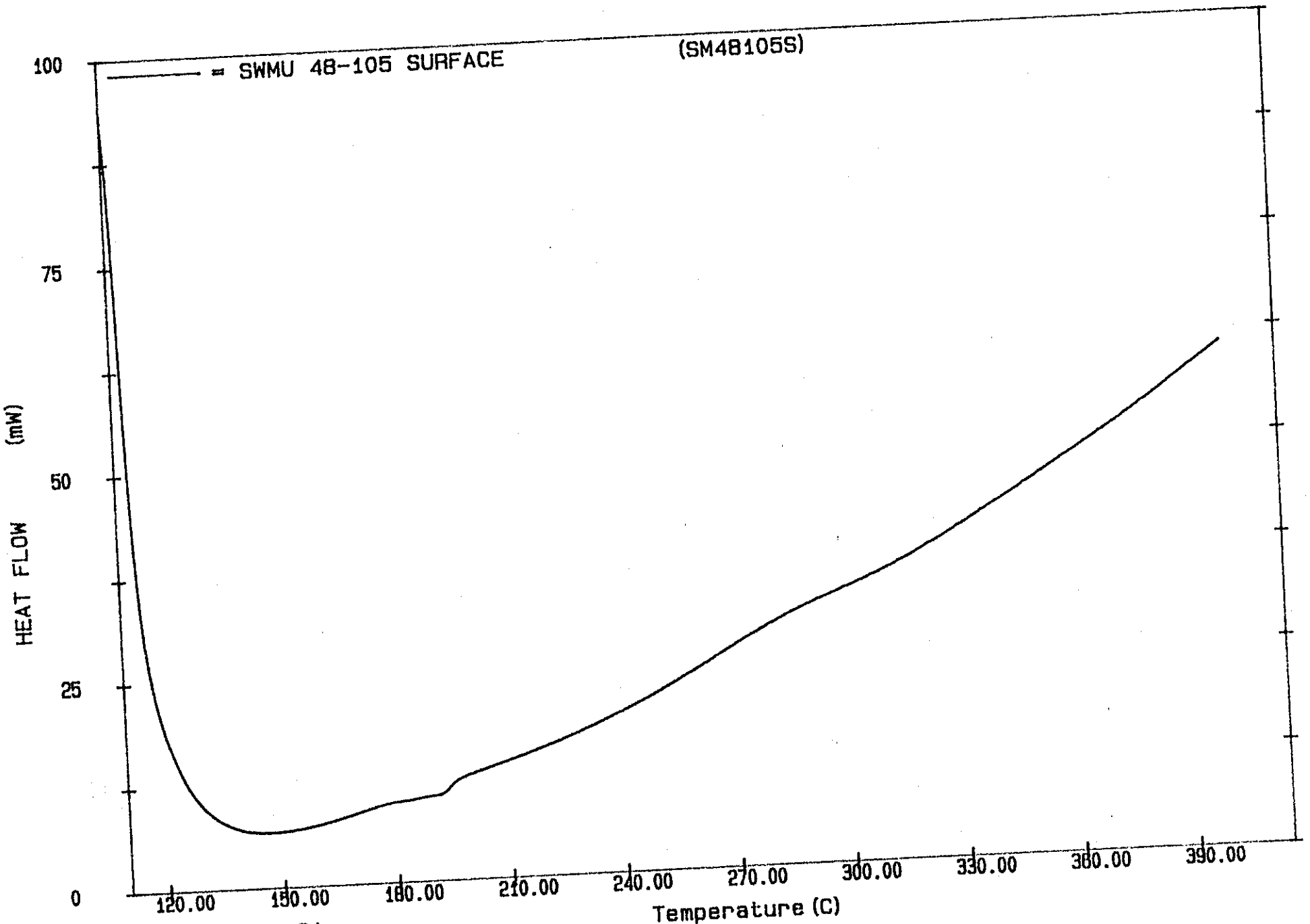
Sample Wt: 0.000 mg Path: C:\PE\
File: SM104S ST 9-12-96

PERKIN-ELMER DSC7



Date: Aug 06, 1996 12: 21am
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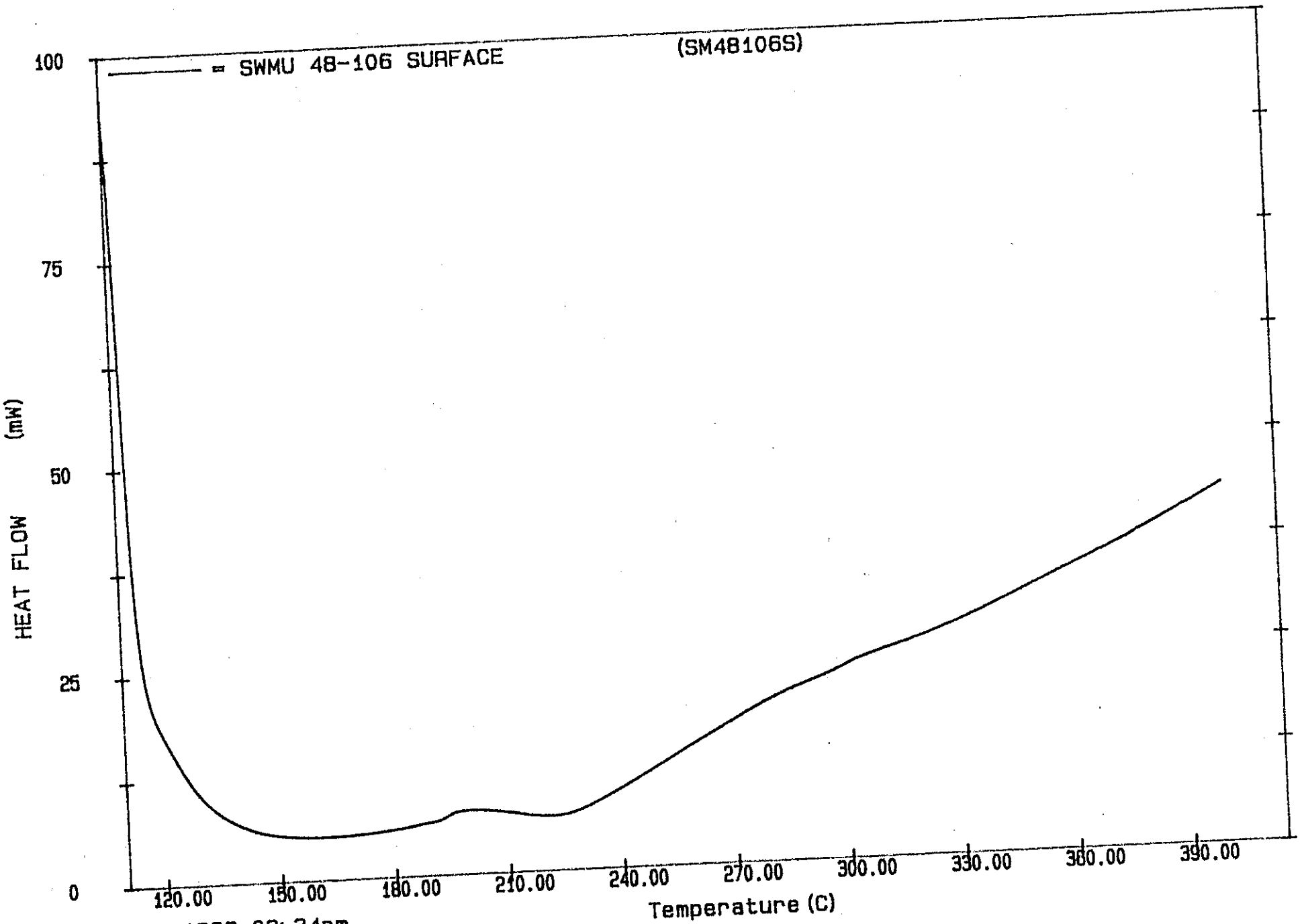
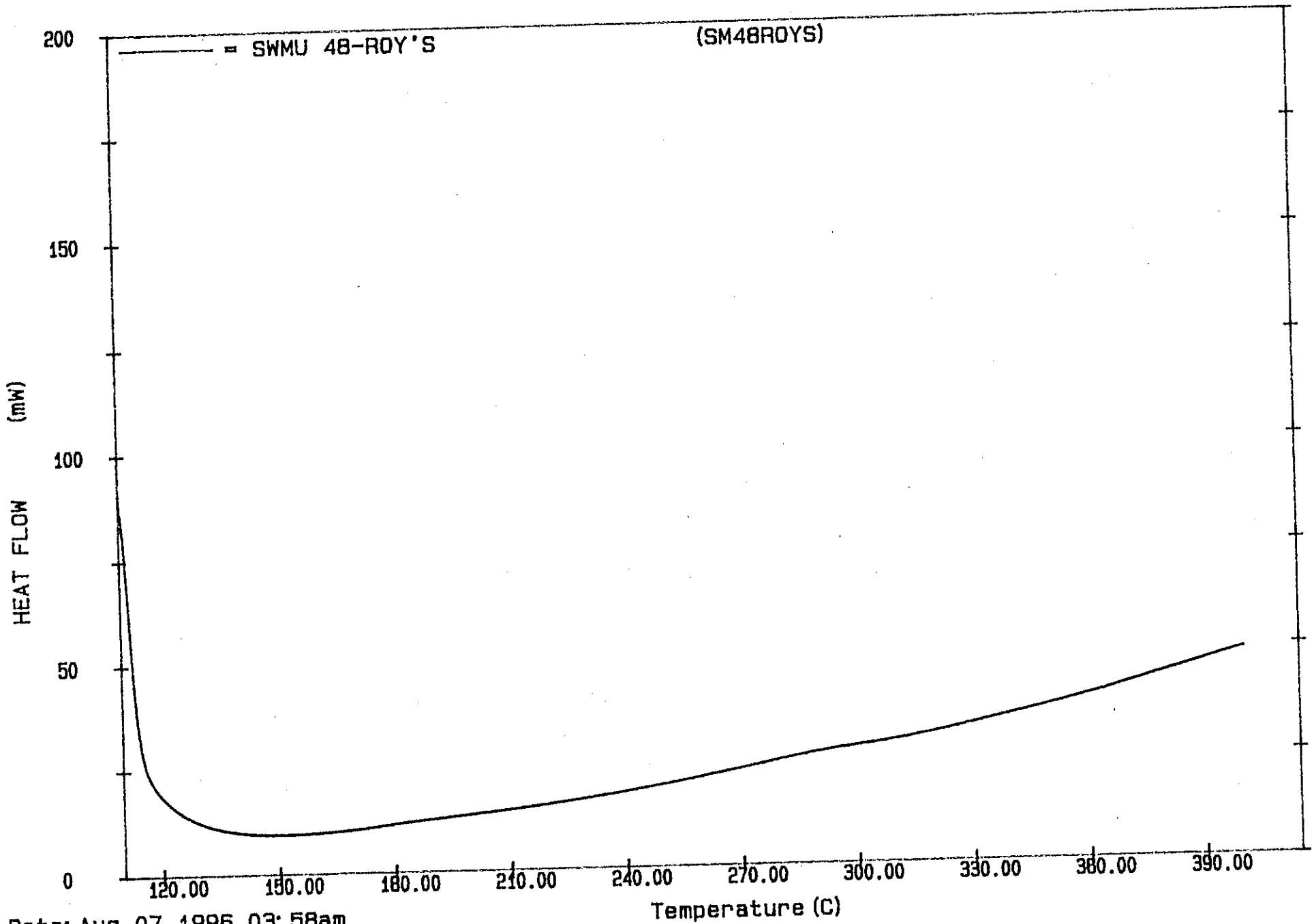
Sampl Wt: 0.000 mg Path: C: \PE\
File SM48105S ST 9-12-96

PERKIN-ELMER DSC7



Date: Aug 07, 1996 03:34am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48106S ST 9-13-96

PERKIN-ELMER DSC7



Date: Aug 07, 1996 03:58am
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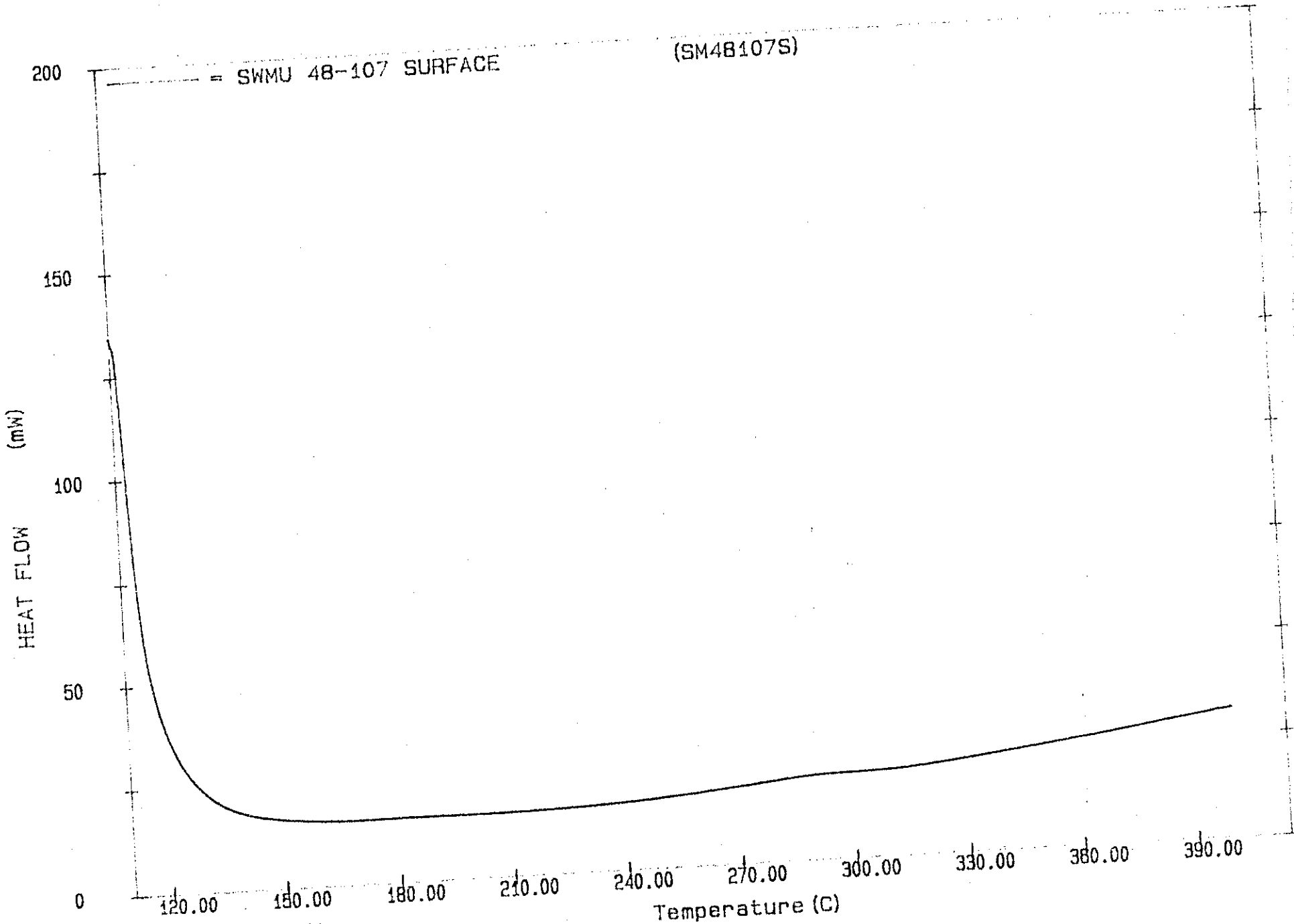
Sample Wt: 0.000 mg Path: C:\PE\
File M48ROYS ST 9-13-96

PERKIN-ELMER DSC7



Date: Sep 24, 1996 03:51am
Scanning Rate: 20.0 C/min
Sam[illegible] Wt: 0.000 mg Path: C:\PE\
Fi[illegible]1: SM48107S ST 9-24-96

PERKIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-12-96 SAMPLE NO# SS 99

TESTER Cook Miller D Shupt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH	
1.		✓		✓	1.	1.
2.		✓		✓	2.	2.
3.		✓		✓	3.	3.
4.		✓		✓	4.	4.
5.		✓		✓	5.	5.
6.		✓		✓	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-12-96 SAMPLE NO# SS 100

TESTER Cook Miller & Thrupt

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	No		
1.		✓	1.	1.
2.		✓	2.	2.
3.		✓	3.	3.
4.		✓	4.	4.
5.		✓	5.	5.
6.		✓	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-12-96 SAMPLE NO# S~~S~~ 101

TESTER Cook Miller D Wright

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓		✓	1.	1.	Neg
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-12-96 SAMPLE NO# SS 102

TESTER Cook Miller Schmit

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes / No	Yes / No			
1.	/		✓	1.	1.
2.	/		✓	2.	2.
3.	/		✓	3.	3.
4.	/		✓	4.	4.
5.	/		✓	5.	5.
6.	/		✓	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-12-96 SAMPLE NO# S8 103

TESTER Cook Miller & Thrift

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-12-96 SAMPLE NO# S~~S~~ 104

TESTER Cook Miller & Thrift

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH	
1.	✓	1.	✓	1.	1.
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

CALORIMETRIC TEST:
Results
positive

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-12-96 SAMPLE NO# S~~8~~ 105

TESTER Cook Miller [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	
1.	✓	1.	✓	1.	1.
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

CALORIMETRIC TEST:
Results

Positive | Trace

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9-12-96 SAMPLE NO# SS 106

TESTER Cook Miller & Shupt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/12/96 SAMPLE NO# SS Roy's Crystals

TESTER Cook Miller & Schmitt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	✓	1.	1.	Neg
2.	/	2.	✓	2.	2.	
3.	/	3.	✓	3.	3.	
4.	/	4.	✓	4.	4.	
5.	/	5.	✓	5.	5.	
6.	/	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/24/94 SAMPLE NO# S 107

TESTER S. THRIFT / H. THRIFT / S THRIFT

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

UXB INTERNATIONAL

(1)

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-10-96	SWM4855							
	1	N	N	N	N	N	N	N
	2	N	N	N	N	N	N	N
9-11-96	X 3	N	N	N	N	N	N	N
	4	N	N	N	N	N	N	N
	5	N	N	N	N	N	N	N
	X 6	N	N	N	N	N	N	N
	7	N	N	N	N	N	N	N
	8	N	N	N	N	N	N	N
	9	N	N	N	N	N	N	N
	10	N	N	N	N	N	N	N
	11	N	N	N	N	N	N	N
	12	N	N	N	N	N	N	N
	13	N	N	N	N	N	N	N
	14	N	N	N	N	N	N	N
	15	N	N	N	N	N	N	N
	16	N	N	N	N	N	N	N
	17	N	N	N	N	N	N	N
9-12-96	18	N	N	N	N	N	N	N
	19	N	N	N	N	N	N	N
	20	N	N	N	N	N	N	N
9-13-96	21	N	N	N	N	N	N	N
	22	N	N	N	N	N	N	N
	23	N	N	N	N	N	N	N
	24	N	N	N	N	N	N	N
	25	N	N	N	N	N	N	N
	26	N	N	N	N	N	N	N
	27	N	N	N	N	N	N	N
	28	N	N	N	N	N	N	N
9-16-96	29	N	N	N	N	N	N	N
	30	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

N= N0

X Trace compound at about 230°C

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
	Swmg 48 SS							
9-16-96	31	N	N	N	N	N	N	N
	32	N	N	N	N	N	N	N
	33	N	N	N	N	N	N	N
	34	N	N	N	N	N	N	N
	35	N	N	N	N	N	N	N
	36	N	N	N	N	N	N	N
	37	N	N	N	N	N	N	N
	38	N	N	N	N	N	N	N
	39	N	N	N	N	N	N	N
	40	N	N	N	N	N	N	N
	41	N	N	N	N	N	N	N
	42	N	N	N	N	N	N	N
	43	N	N	N	N	N	N	N
	44	N	N	N	N	N	N	N
	45	N	N	N	N	N	N	N
	46	N	N	N	N	N	N	N
	47	N	N	N	N	N	N	N
	48	N	N	N	N	N	N	N
	49	N	N	N	N	N	N	N
	50	N	N	N	N	N	N	N
	51	N	N	N	N	N	N	N
9-17-96	52	N	N	N	N	N	N	N
	53	N	N	N	N	N	N	N
	54	N	N	N	N	N	N	N
	55	N	N	N	N	N	N	N
	56	N	N	N	N	N	N	N
	57	N	N	N	N	N	N	N
	58	N	N	N	N	N	N	N
	59	N	N	N	N	N	N	N
	60	N	N	N	N	N	N	N

LEGEND
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
	SW MU 48'SS							
9-17-96	61	N	N	N	N	N	N	N
	62	N	N	N	N	N	N	N
	63	N	N	N	N	N	N	N
	64	N	N	N	N	N	N	N
	65	N	N	N	N	N	N	N
	66	N	N	N	N	N	N	N
	67	N	N	N	N	N	N	N
	68	N	N	N	N	N	N	N
	69	N	N	N	N	N	N	N
9-18-96	70	N	N	N	N	N	N	N
	71	N	N	N	N	N	N	N
	72	N	N	N	N	N	N	N
	73	N	N	N	N	N	N	N
9-19-96	74	N	N	N	N	N	N	N
	75	N	N	N	N	N	N	N
9-20-96	76	N	N	N	N	N	N	N
	77	N	N	N	N	N	N	N
	78	N	N	N	N	N	N	N
	79	N	N	N	N	N	N	N
	80	N	N	N	N	N	N	N
	81	N	N	N	N	N	N	N
	82	N	N	N	N	N	N	N
	83	N	N	N	N	N	N	N
	84	N	N	N	N	N	N	N
	85	N	N	N	N	N	N	N
	86	N	N	N	N	N	N	N
9-23-96	87	N	N	N	N	N	N	N
	88	N	N	N	N	N	N	N
	89	N	N	N	N	N	N	N
	90	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-23-96	SWM448S S							
	91	N	N	N	N	N	N	N
	92	N	N	N	N	N	N	N
	93	N	N	N	N	N	N	N
	94	N	N	N	N	N	N	N
	95	N	N	N	N	N	N	N
	96	N	N	N	N	N	N	N
	97	N	N	N	N	N	N	N
	98	N	N	N	N	N	N	N

LEGEND
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0

UXB INTERNATIONAL

(5)

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
9-13-96	SWMU 4/855							
	99	N	N	N	N	N	N	N
	100	N	N	N	N	N	N	N
	101	N	N	N	N	N	N	N
	102	N	N	N	N	N	N	N
	103	N	N	N	N	N	N	N
	104	N	N	N	N	N	[illegible]	N
	105	N	N	N	N	N	N	N
	106	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

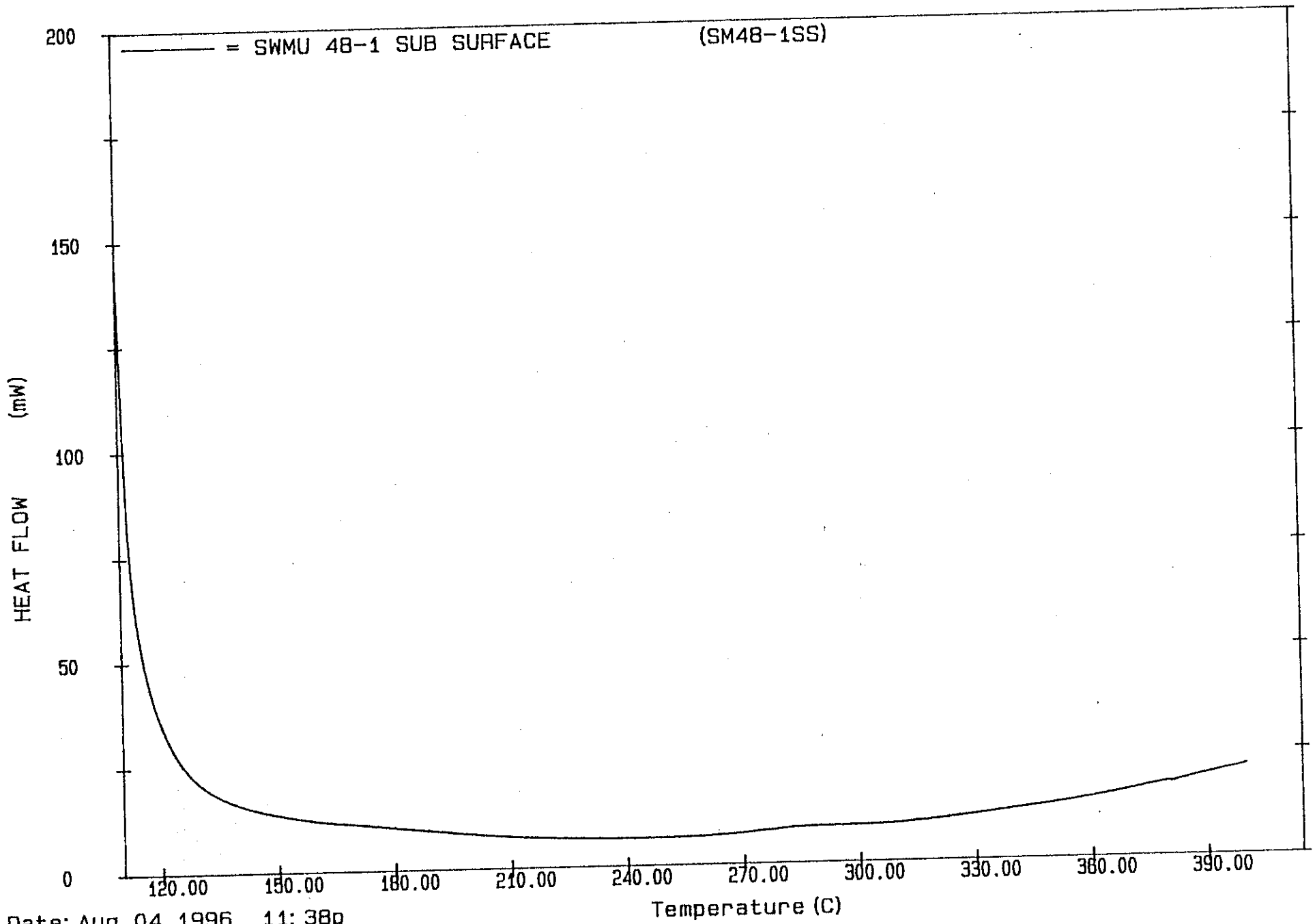
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

N= N0



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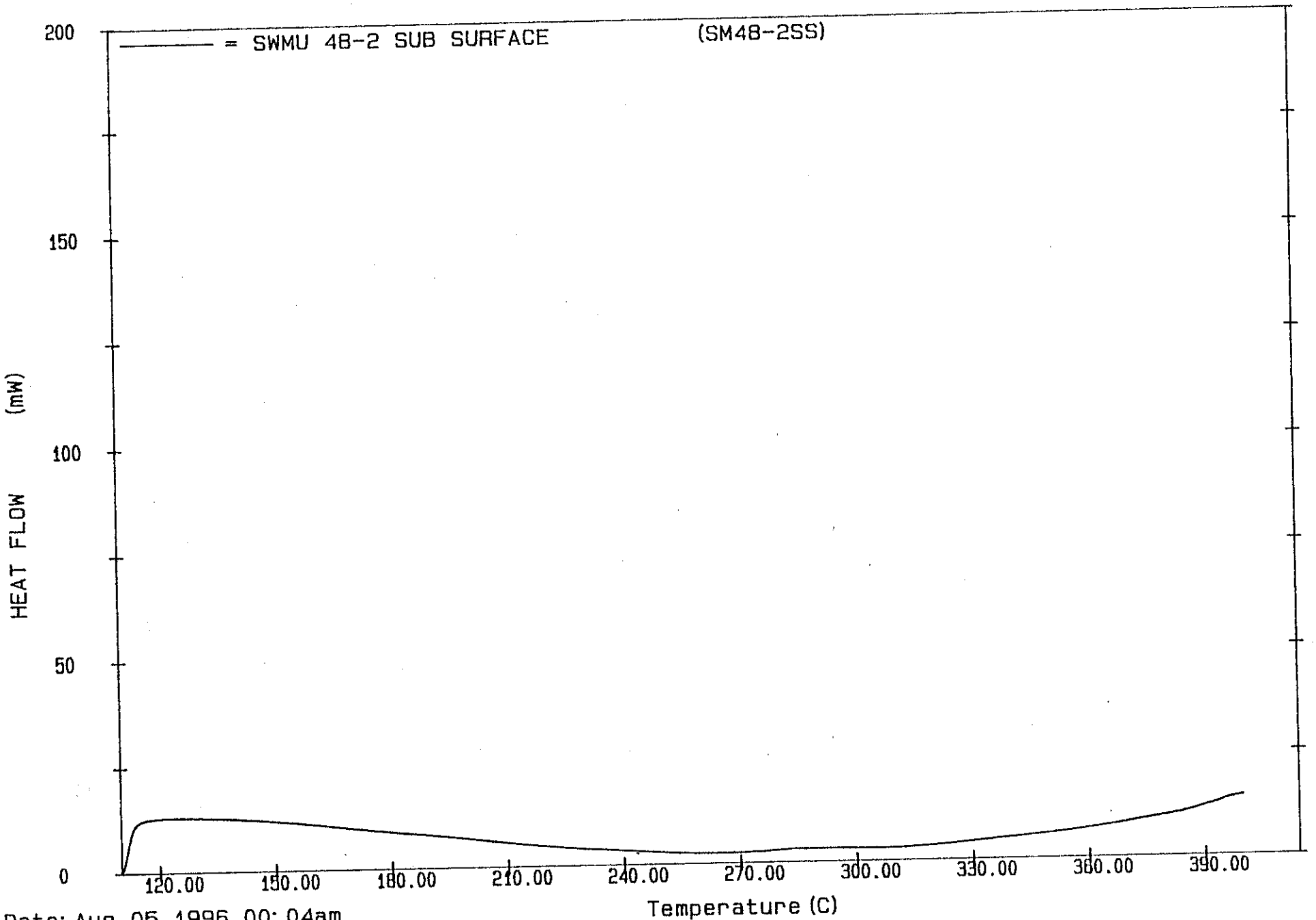
Fil : SM48-1SS ST 9-10-96

PE IN-ELMER DSC7



Date: Aug 05, 1996 00:04am
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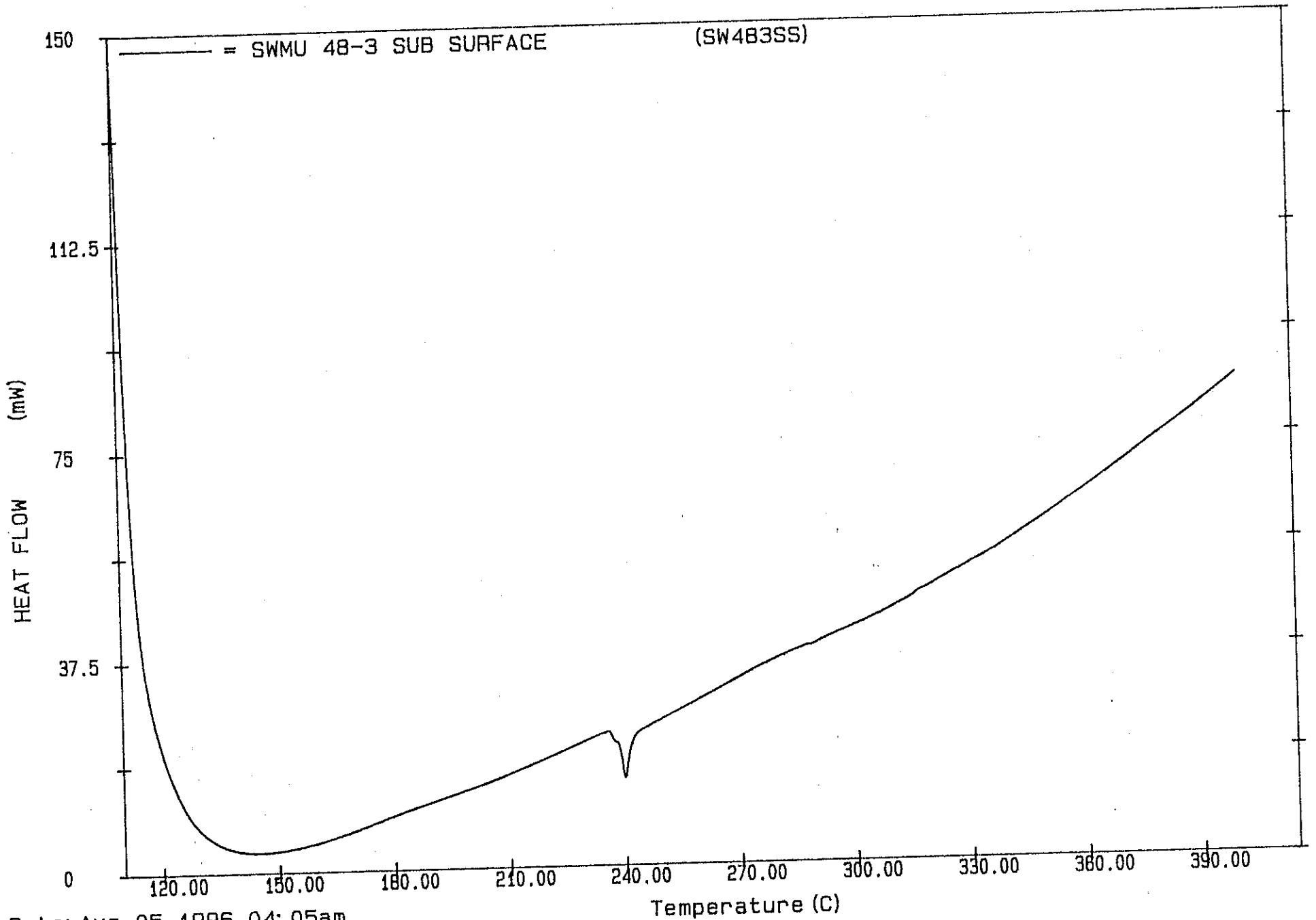
Sample Wt: 0.000 mg Path: C:\PE\
File SM48-2SS ST 9-10-96

PERKIN-ELMER DSC7



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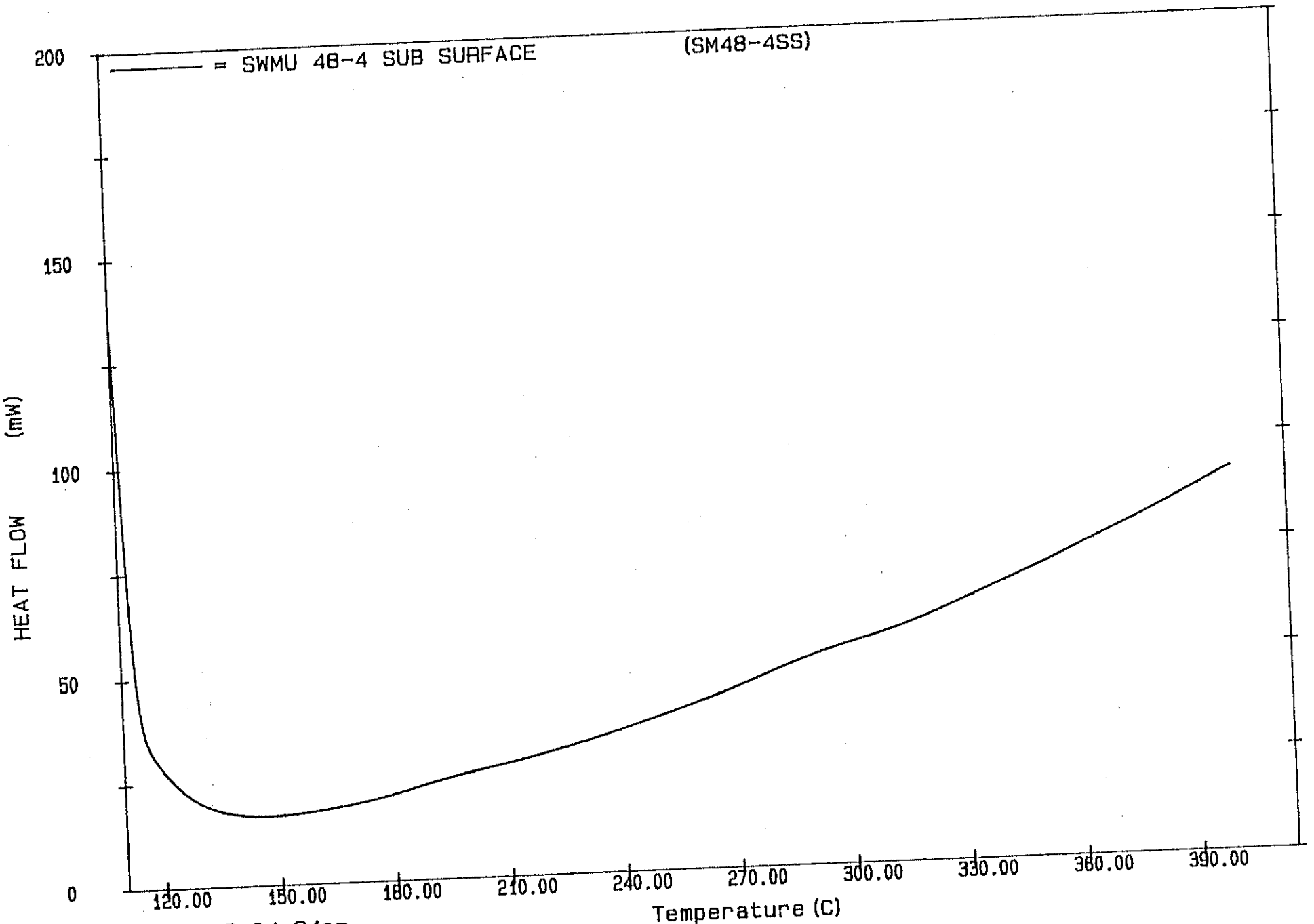
File W483SS ST 9-11-96

PER[illegible]N-ELMER DSC7



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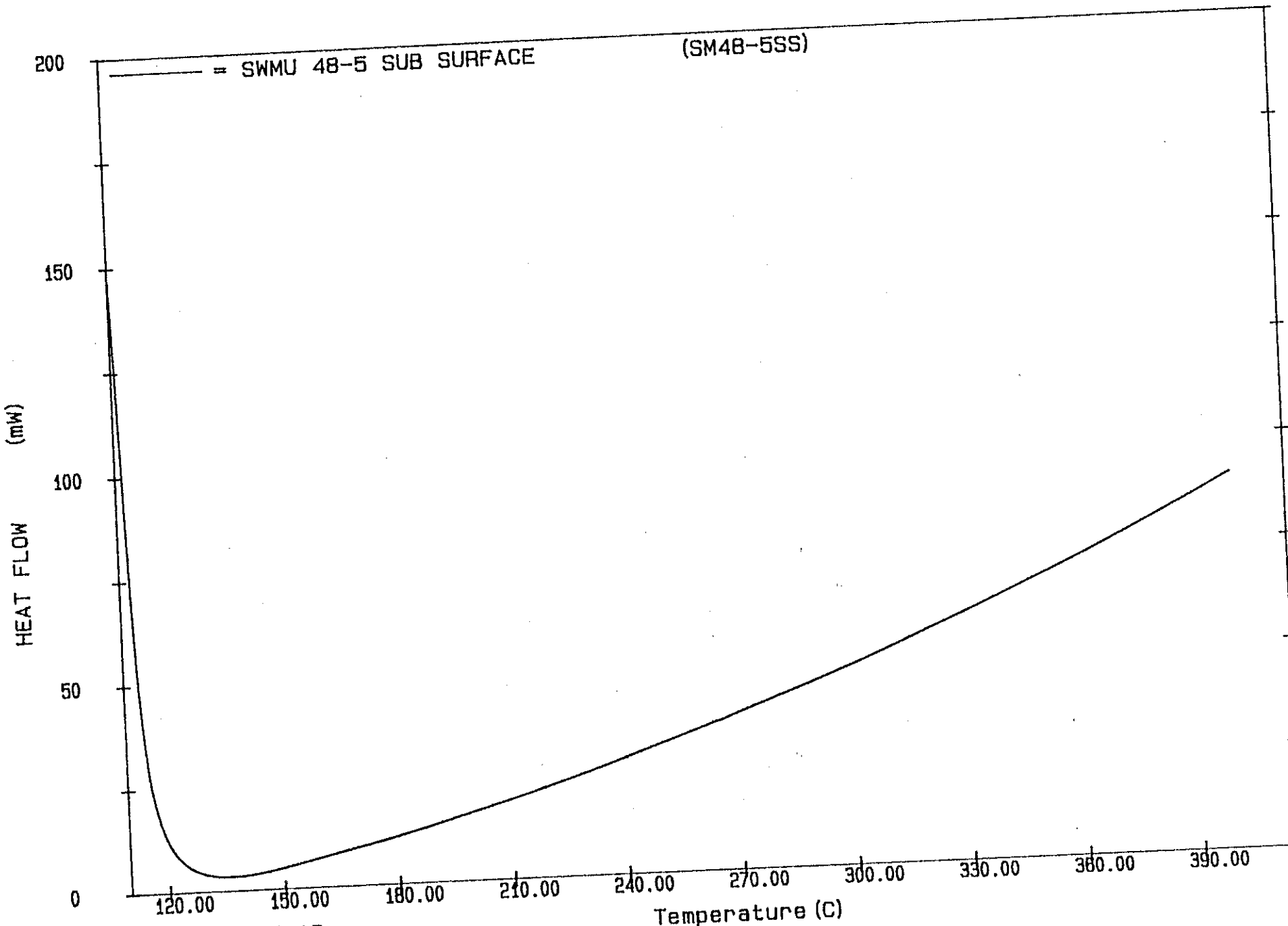
File SM48-4SS ST 9-11-96

PERKIN-ELMER DSC7



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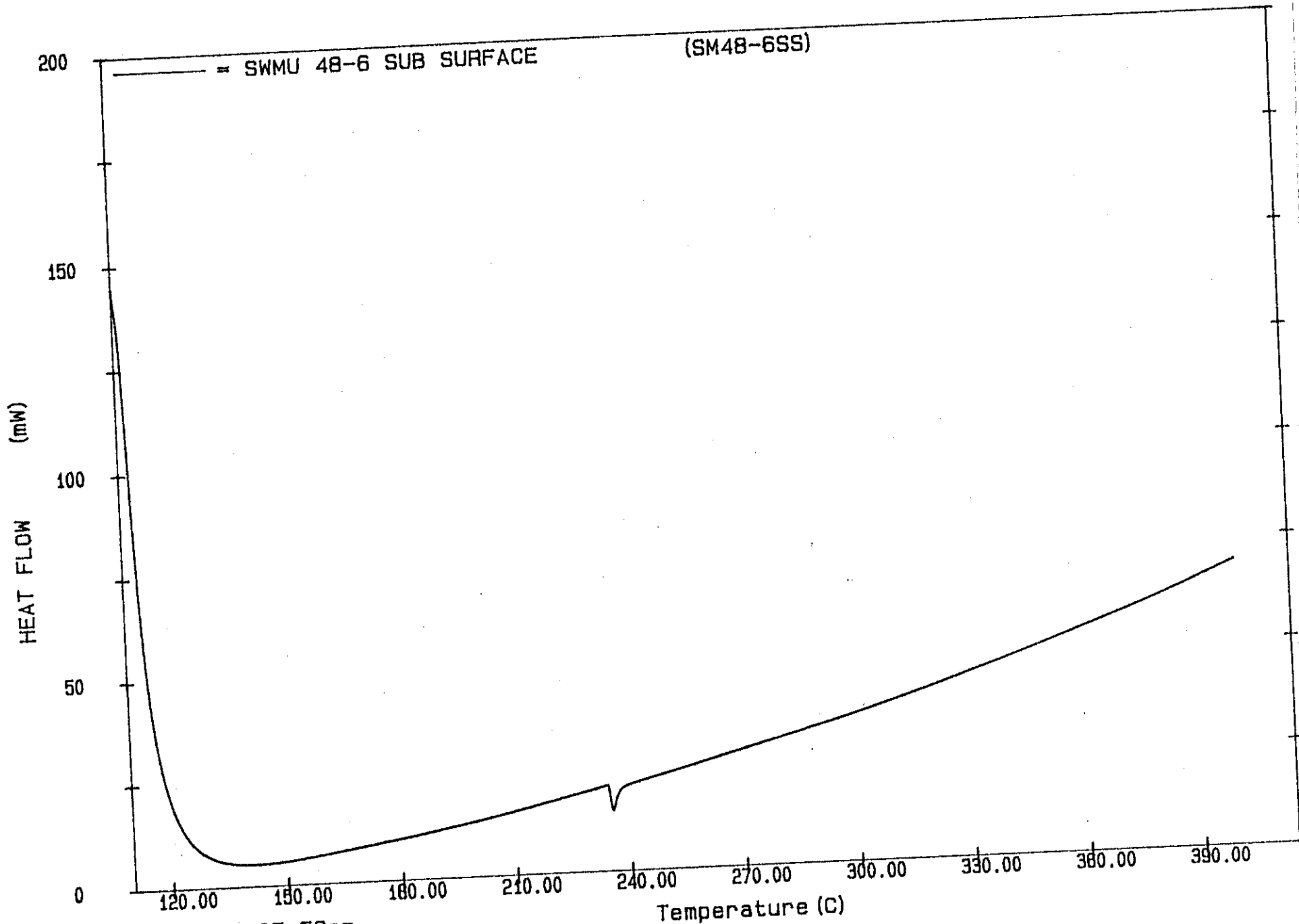
File: 1: SM48-5SS ST 9-11-96

PERKIN-ELMER DSC7



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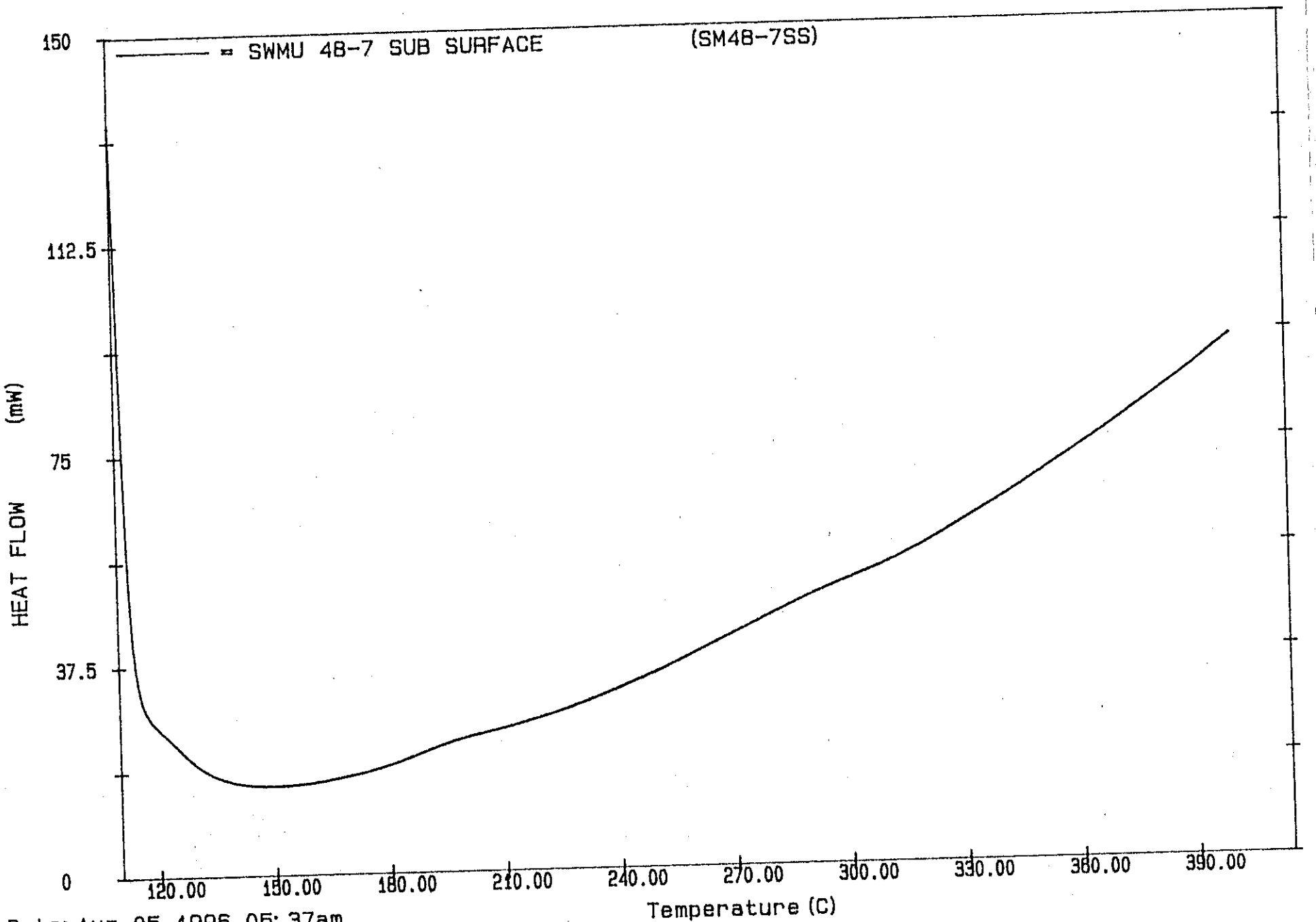
PERKIN-ELMER DSC7



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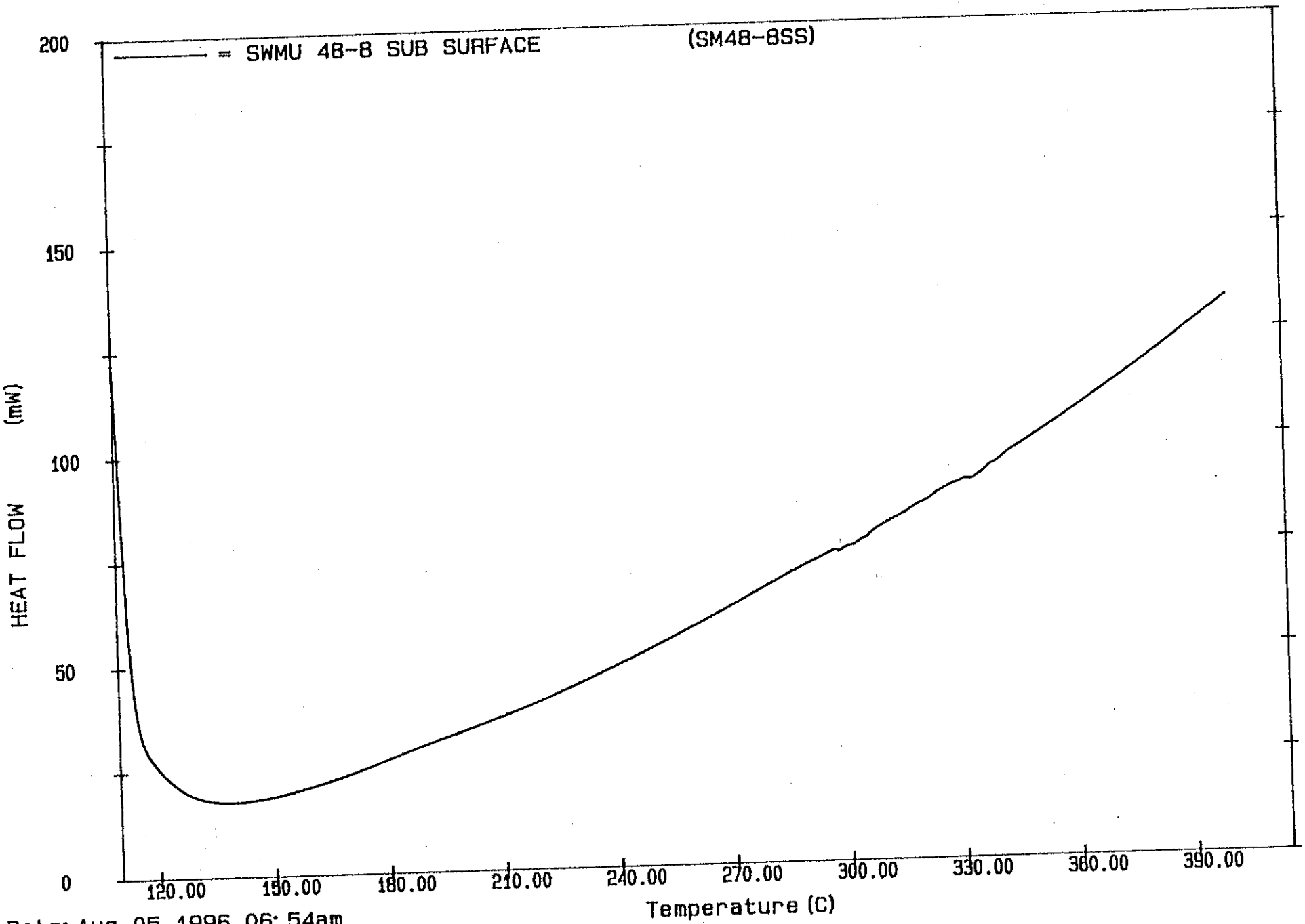

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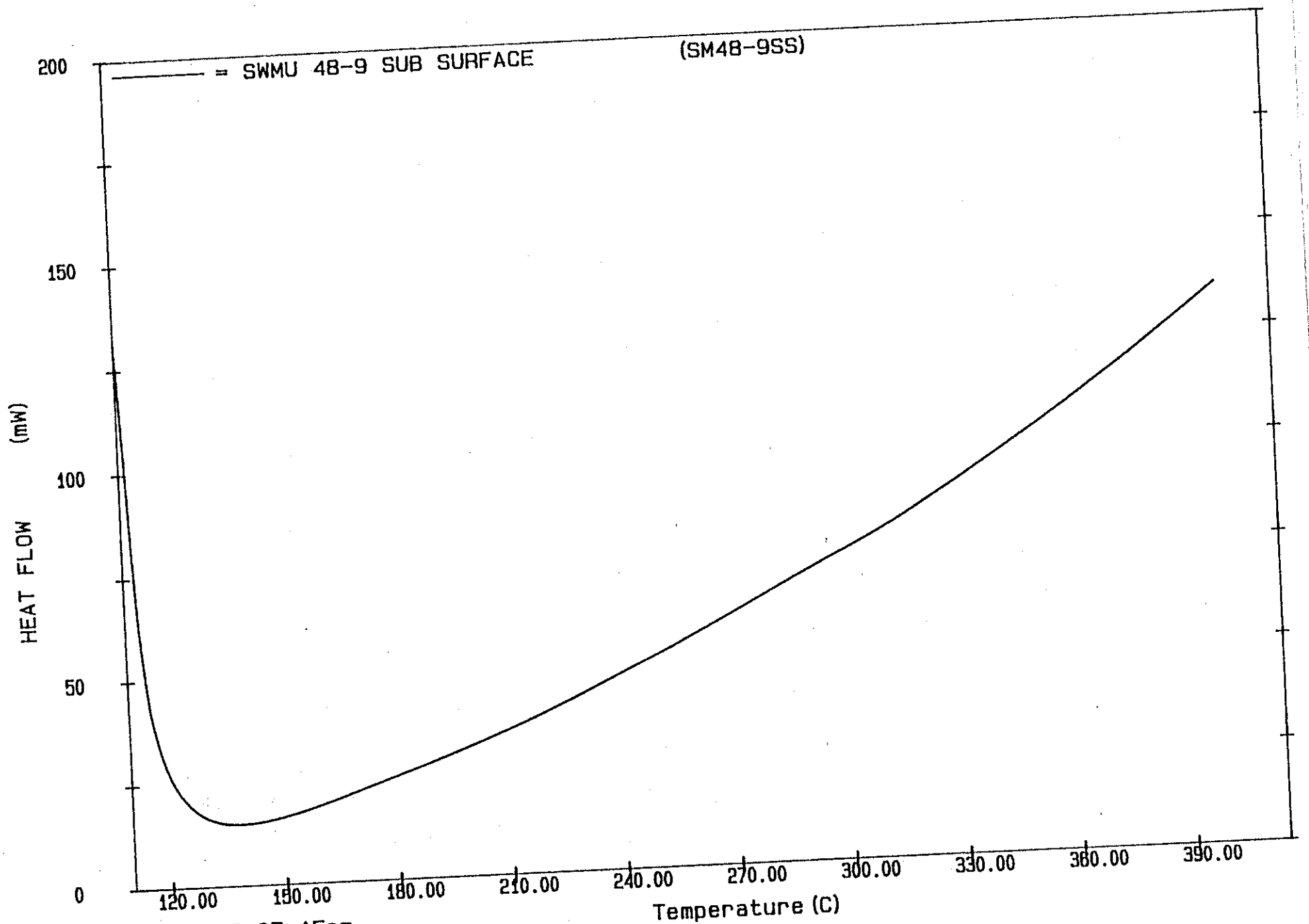

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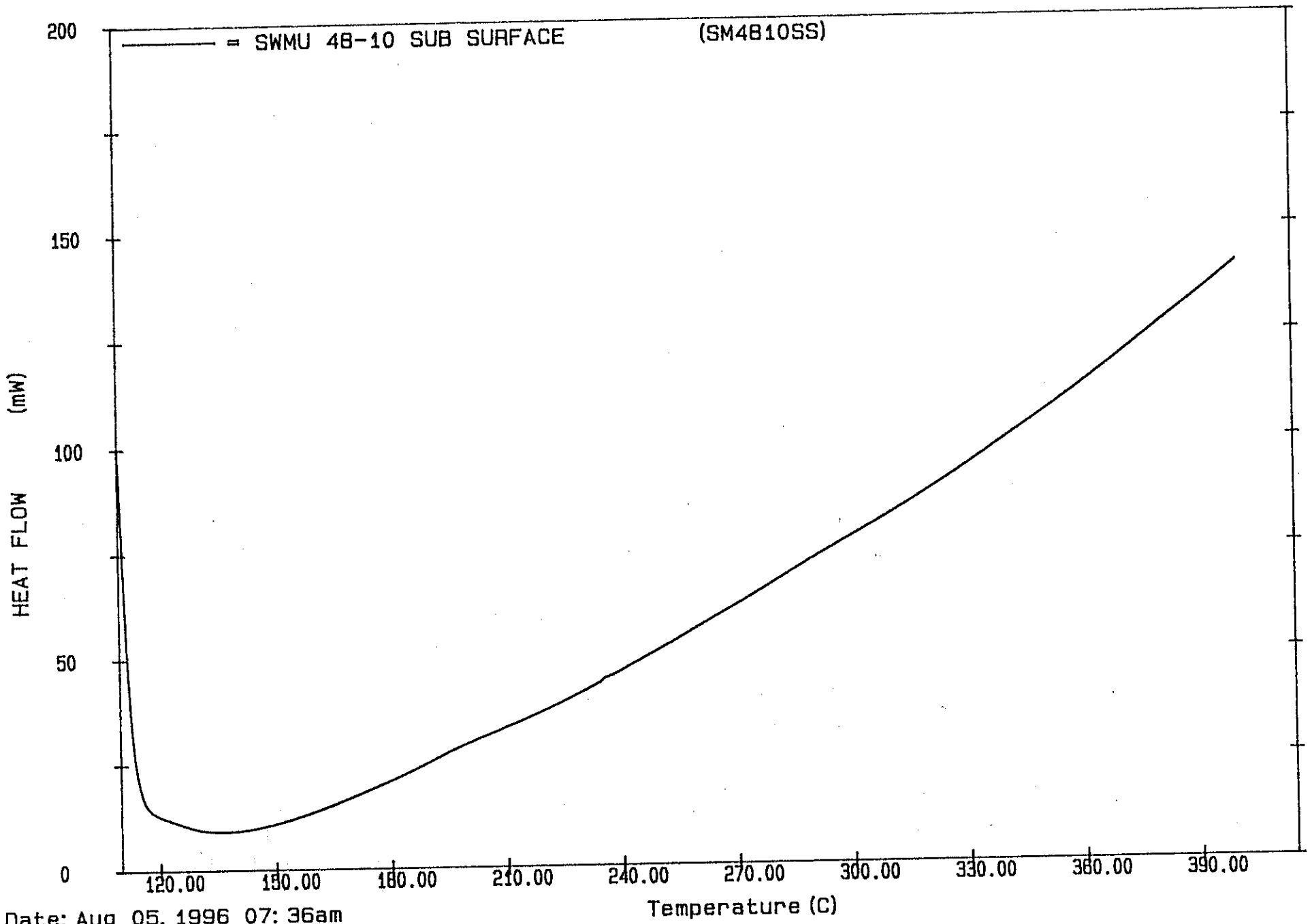
File SM48-9SS ST 9-11-96

PEF TN-ELMER DSC7



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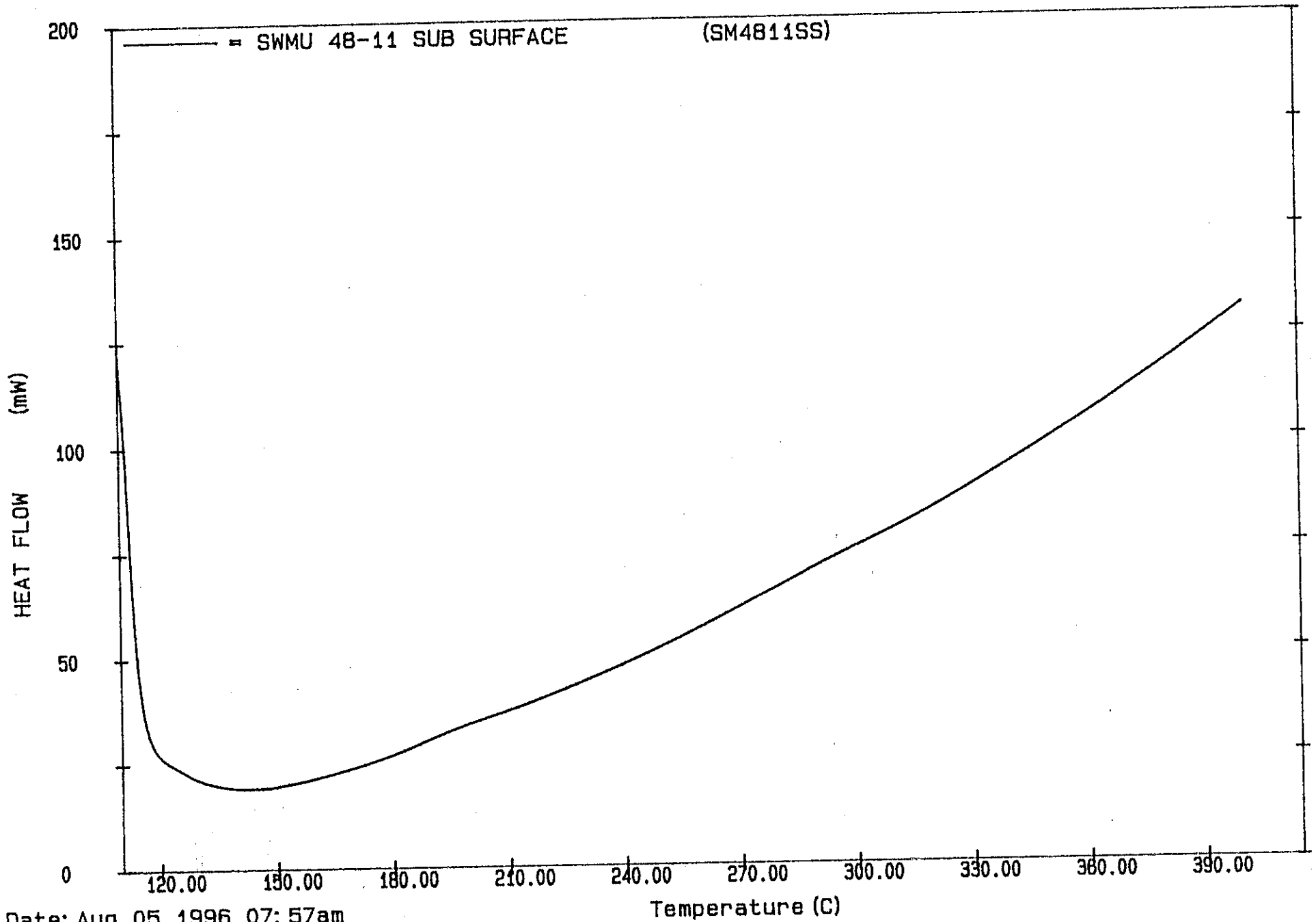
File M4810SS ST 9-11-96

PERKIN-ELMER DSC7



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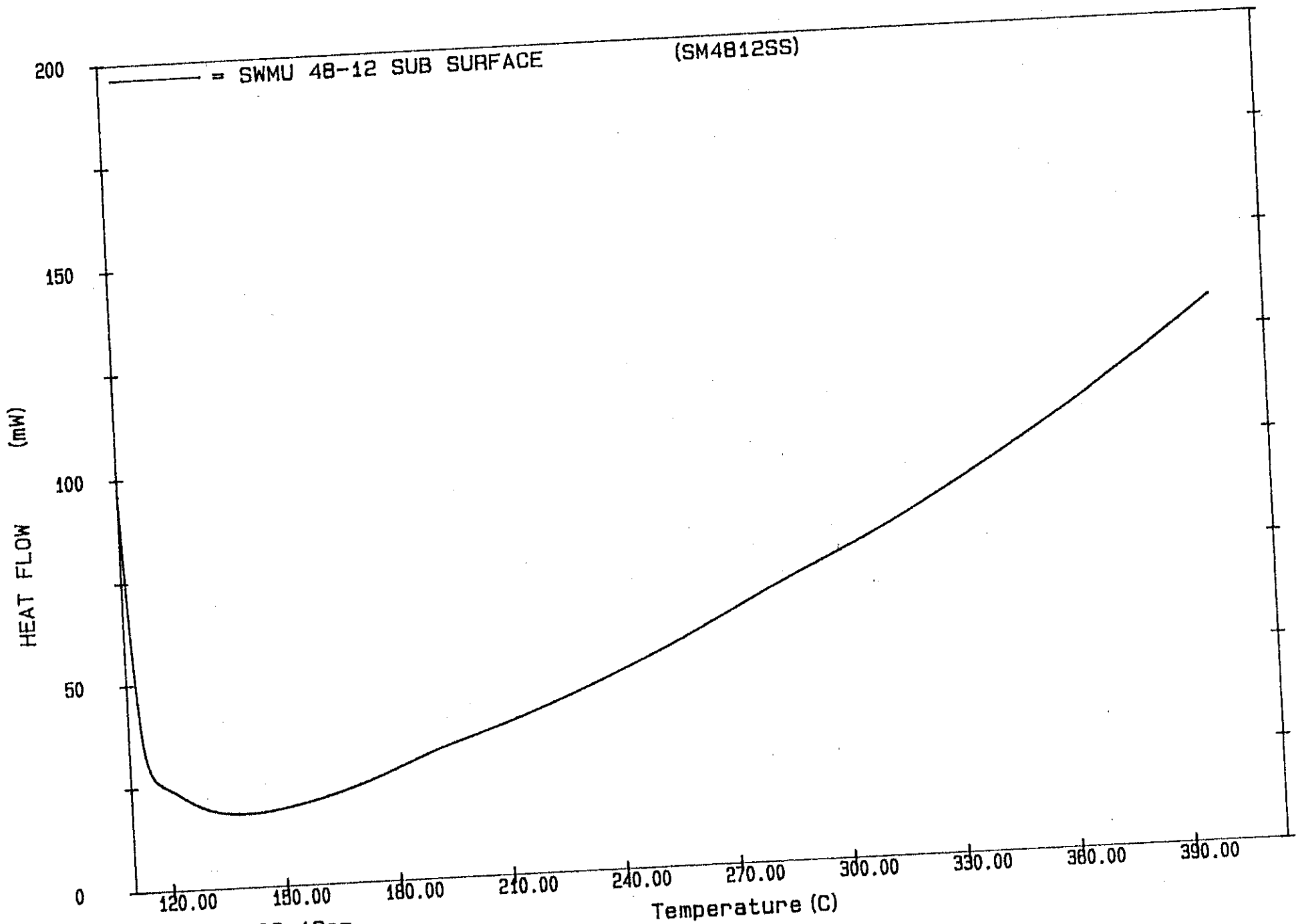
File SM4811SS ST 9-11-96

PERKIN-ELMER DSC7



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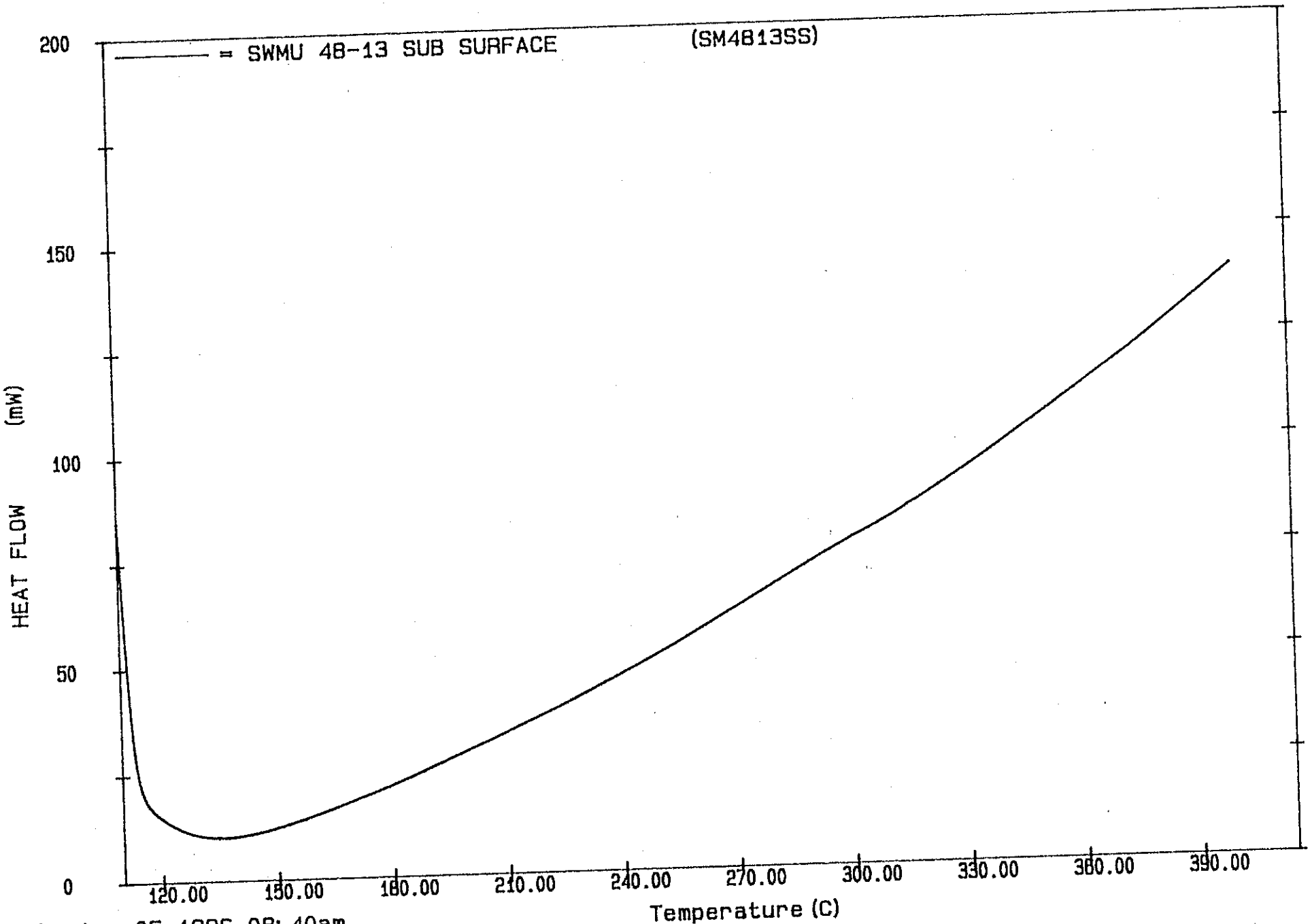

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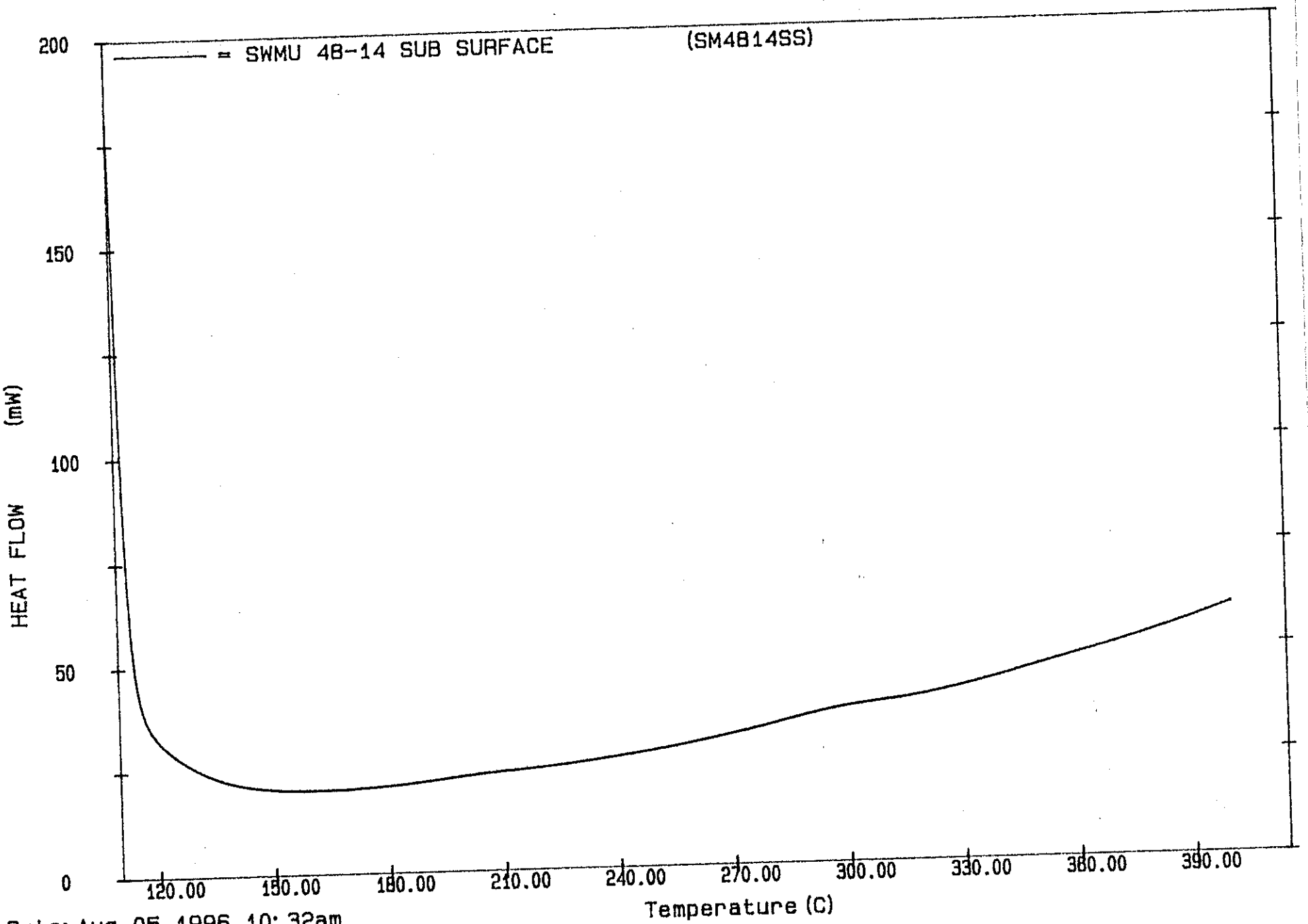

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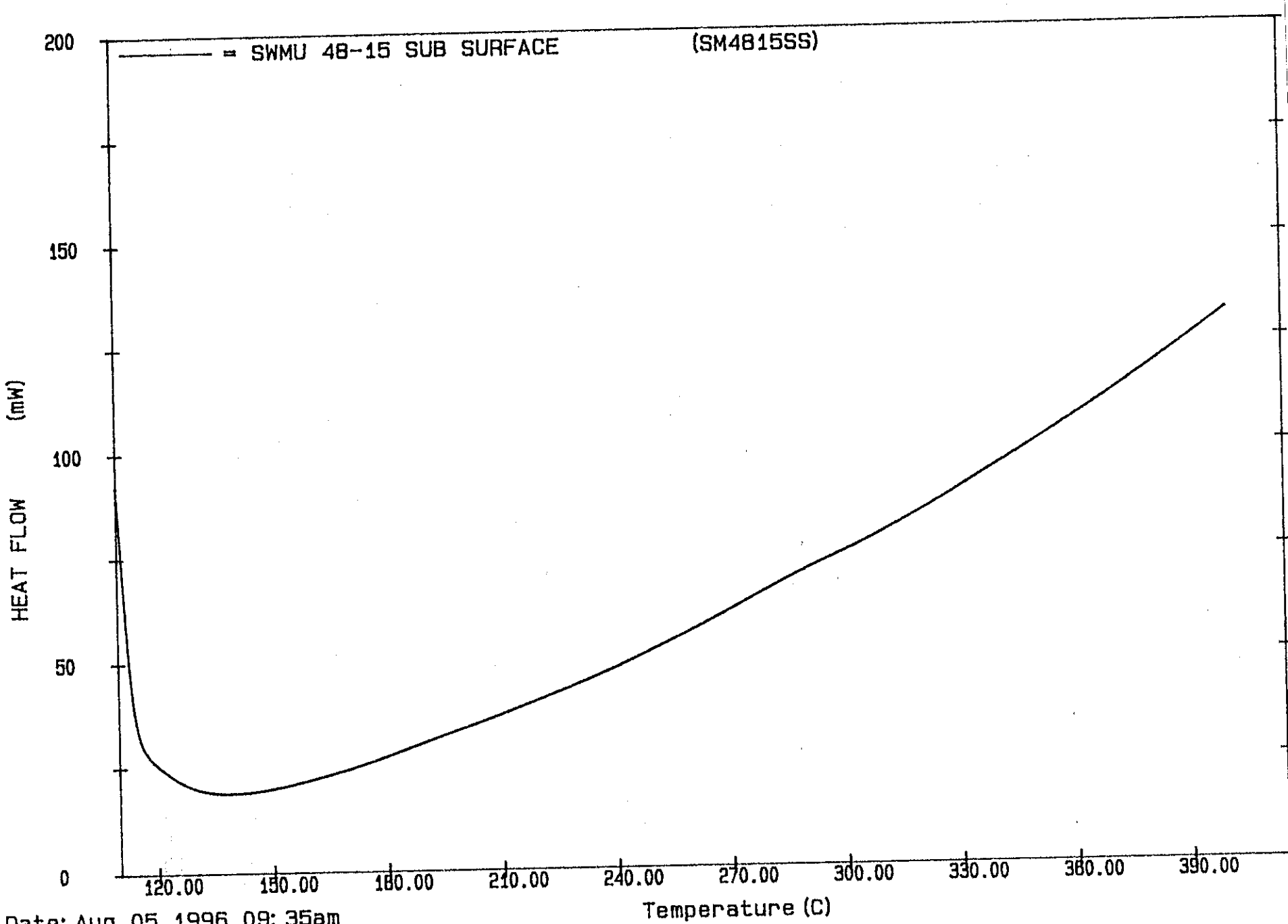

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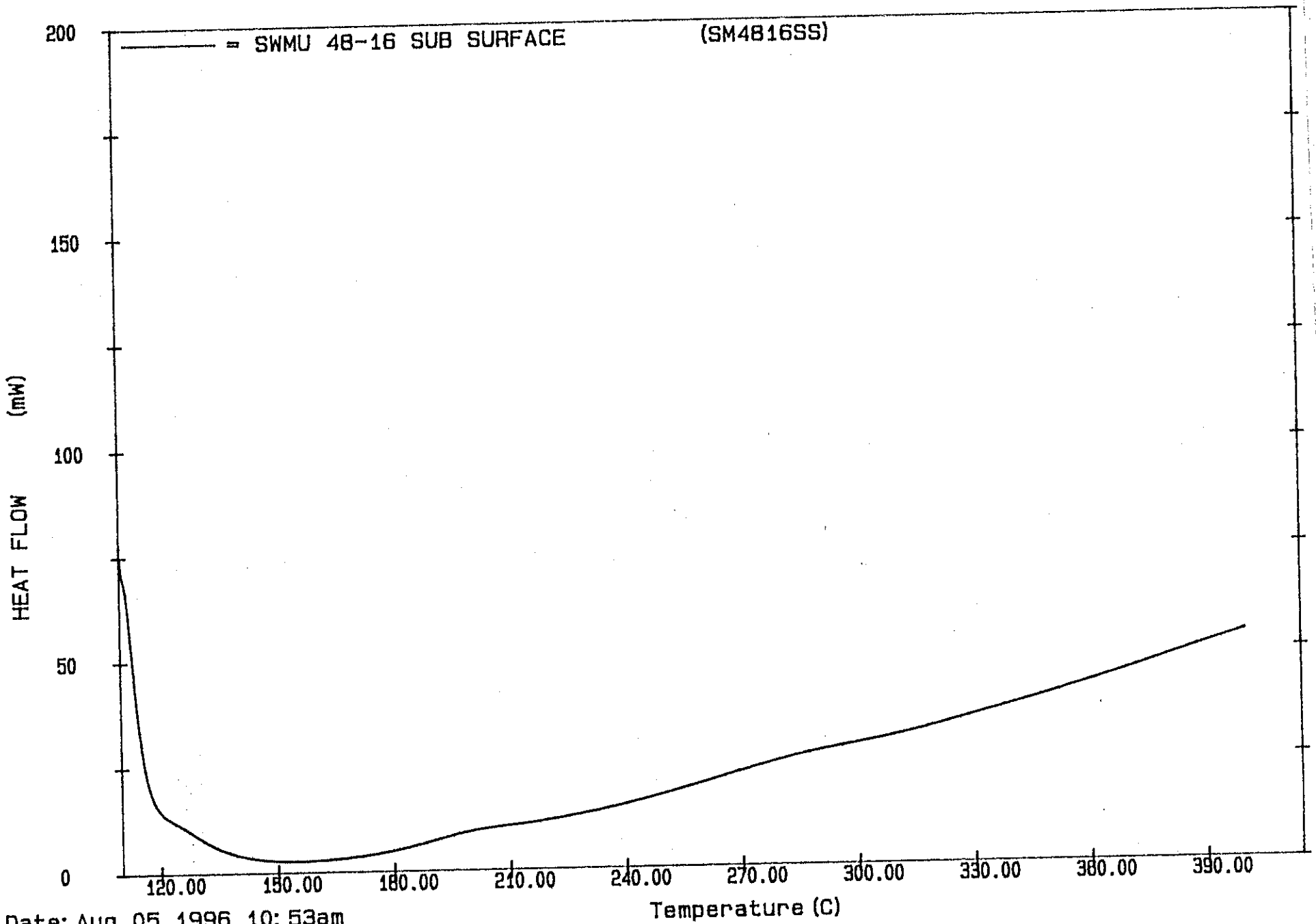
PERKIN-ELMER DSC7



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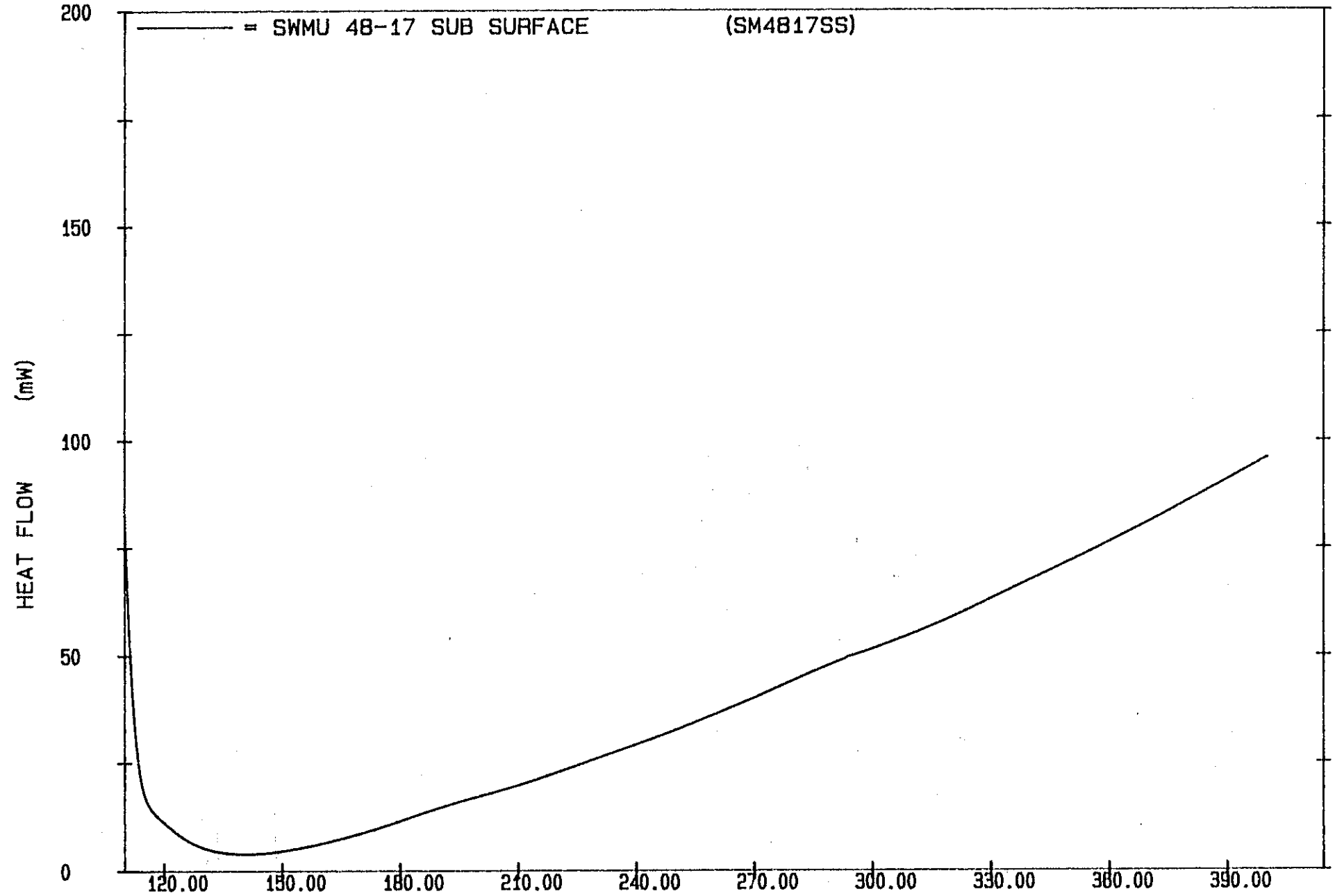
File SM4816SS ST 9-11-96

PERKIN-ELMER DSC7



Date: Aug 05, 1996 12:04am
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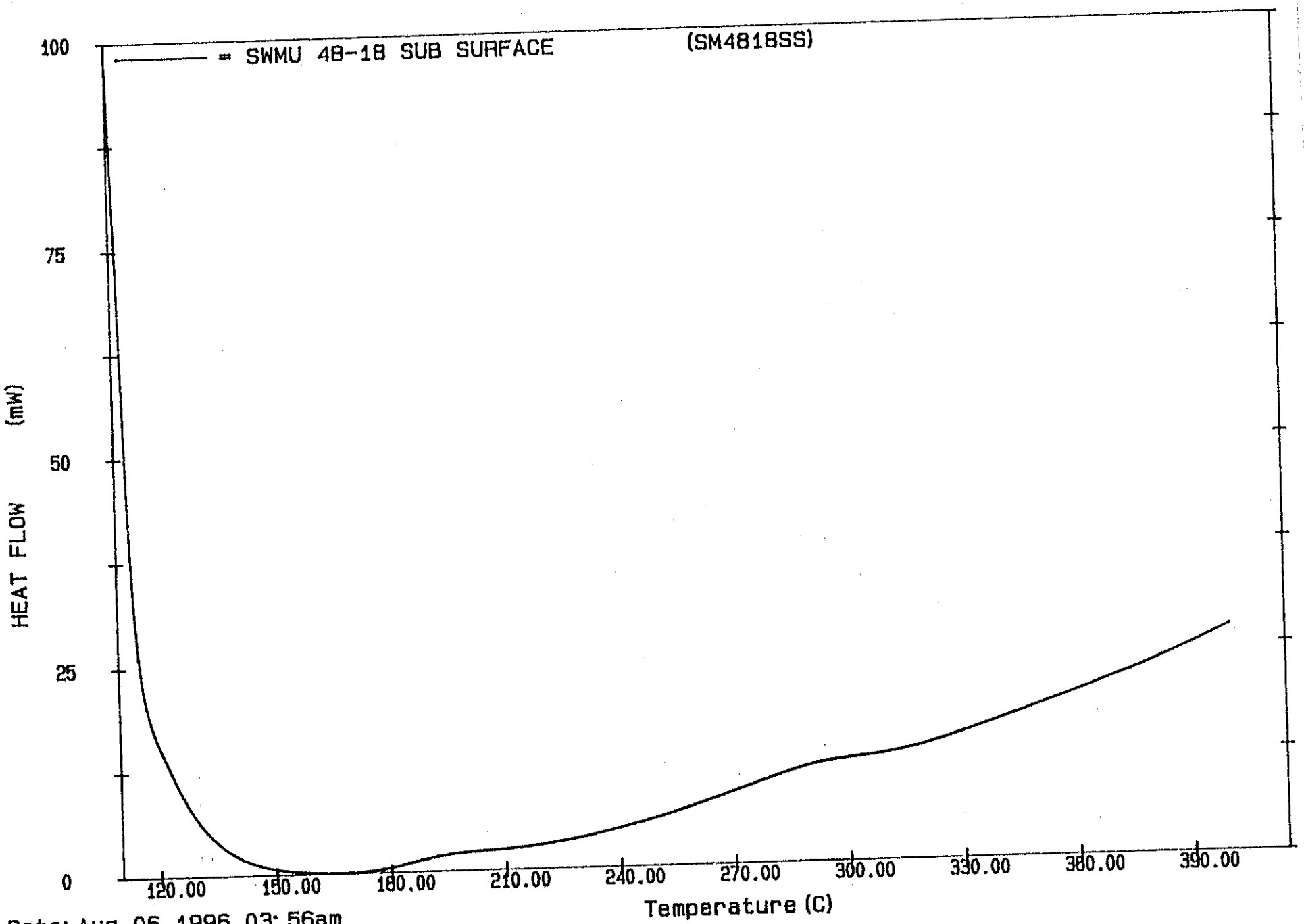
PERKIN-ELMER DSC7



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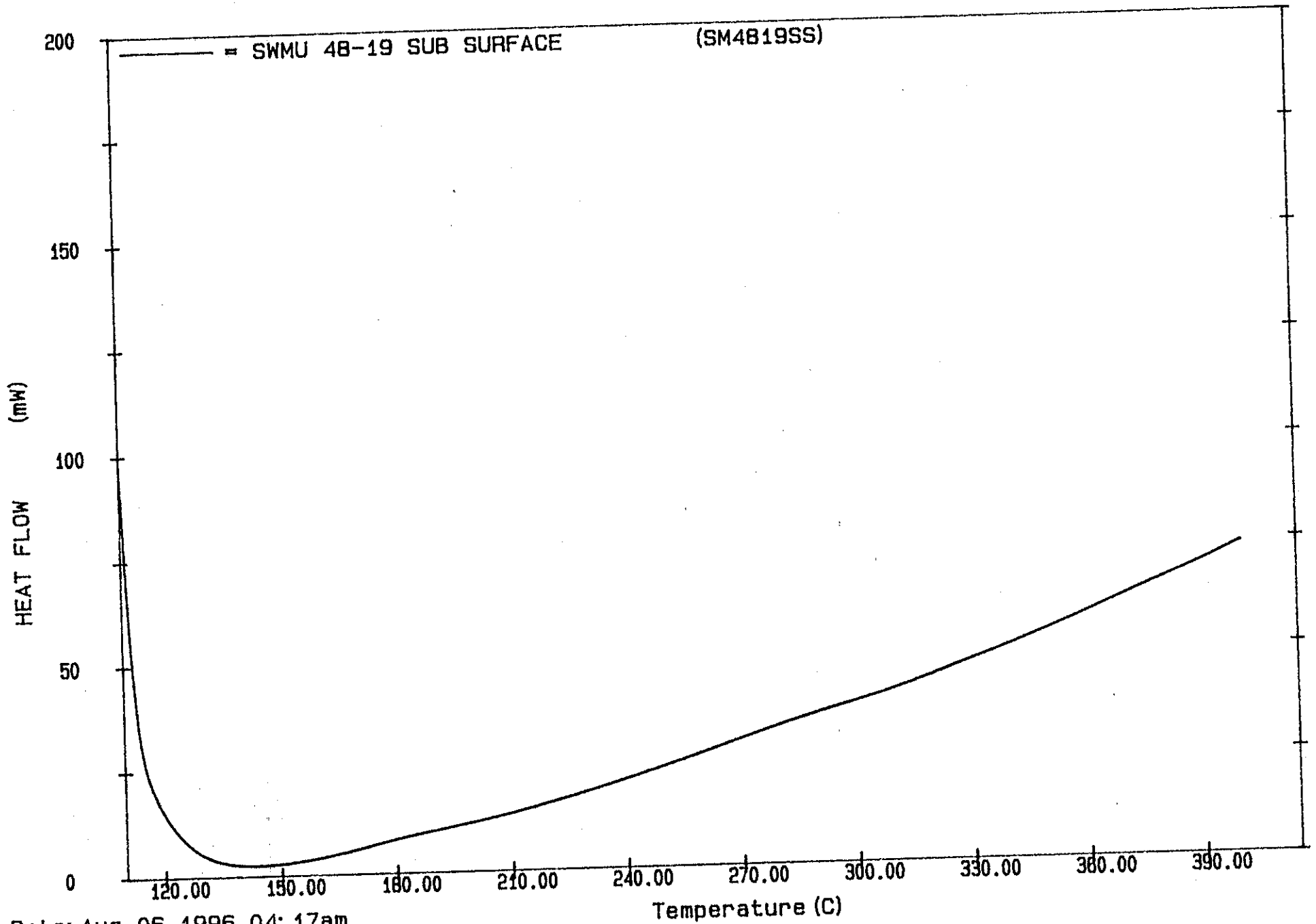
PERKIN-ELMER DSC7



Date: Aug 06, 1996 04: 17am
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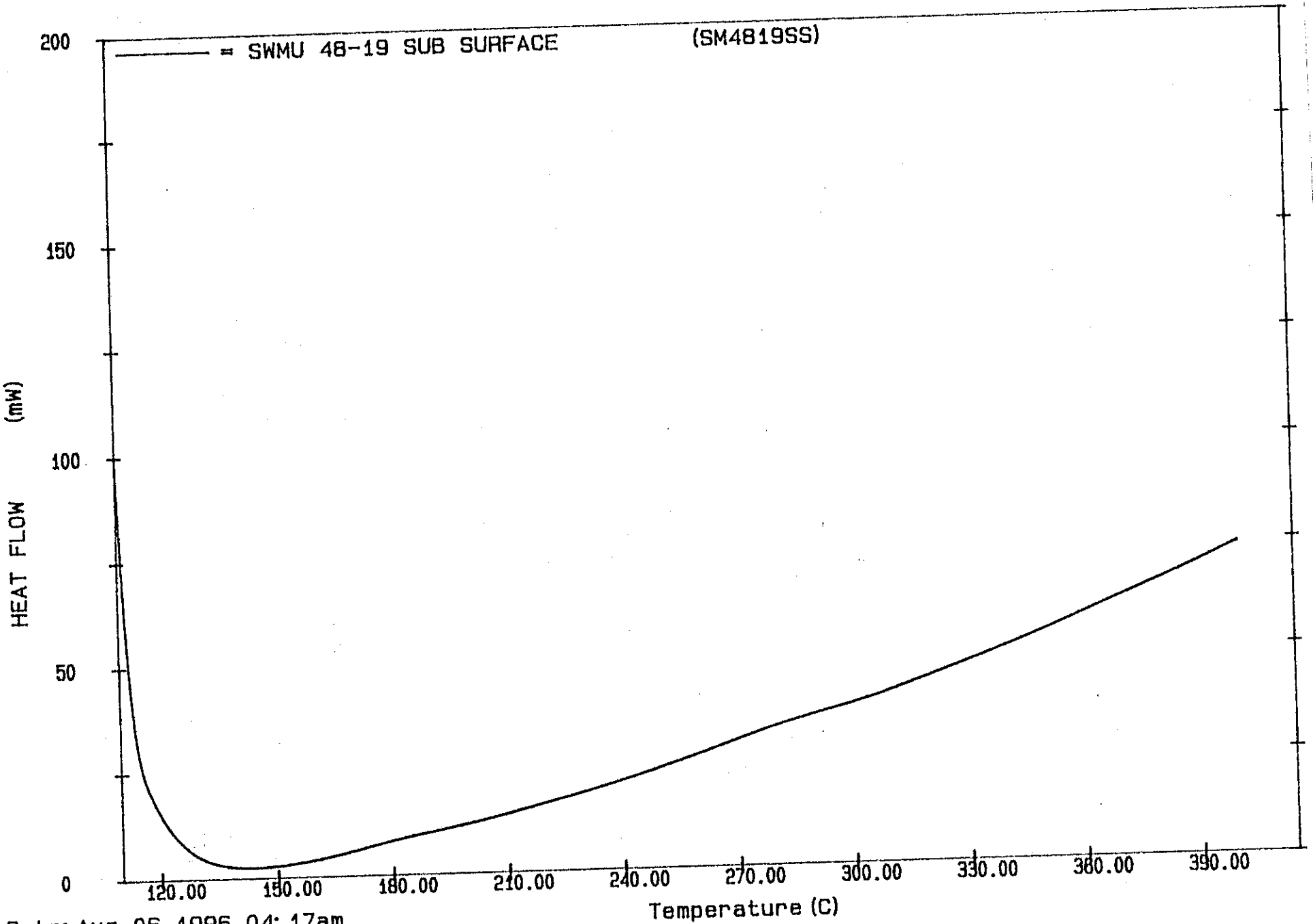
PERKIN-ELMER DSC7



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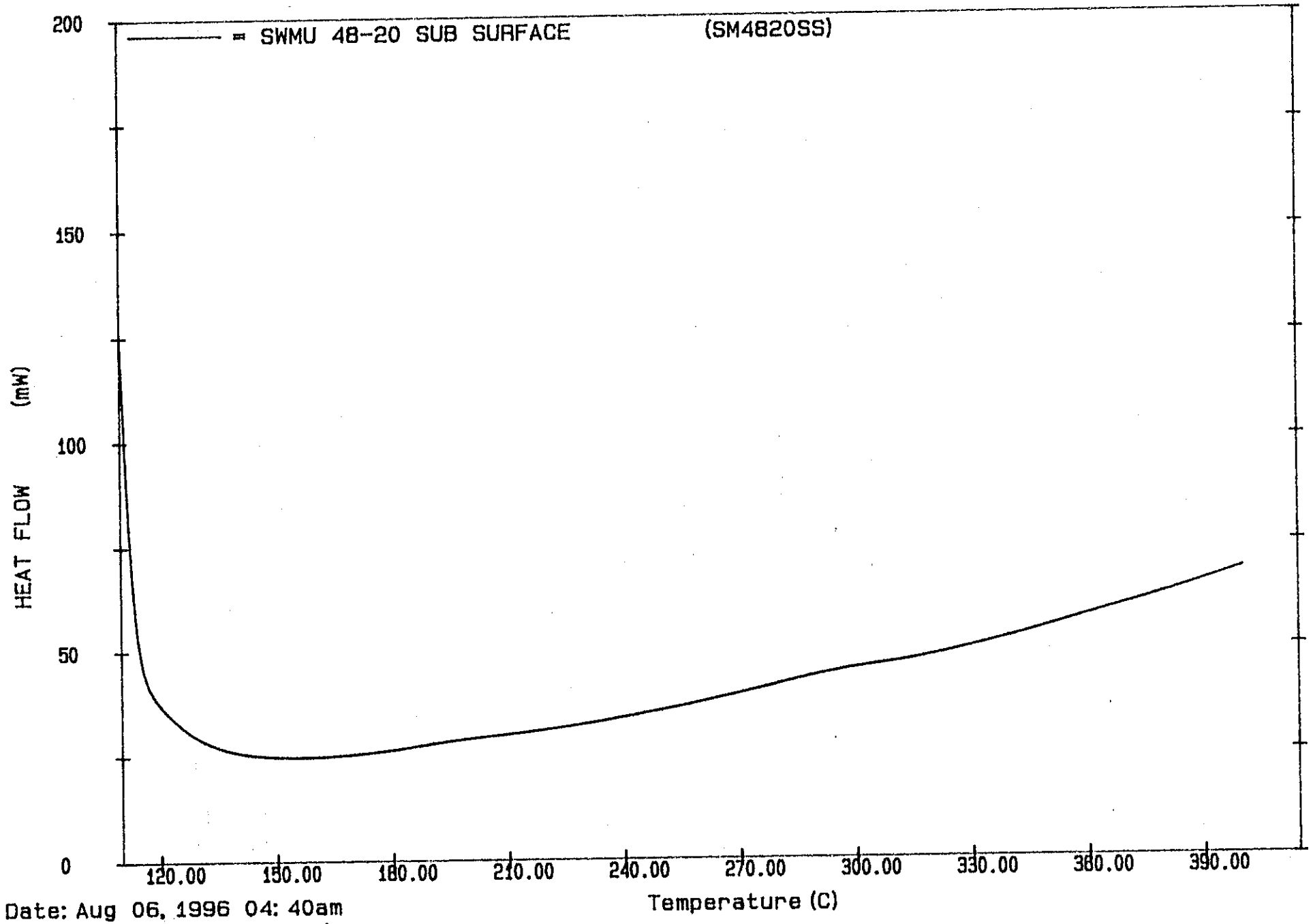

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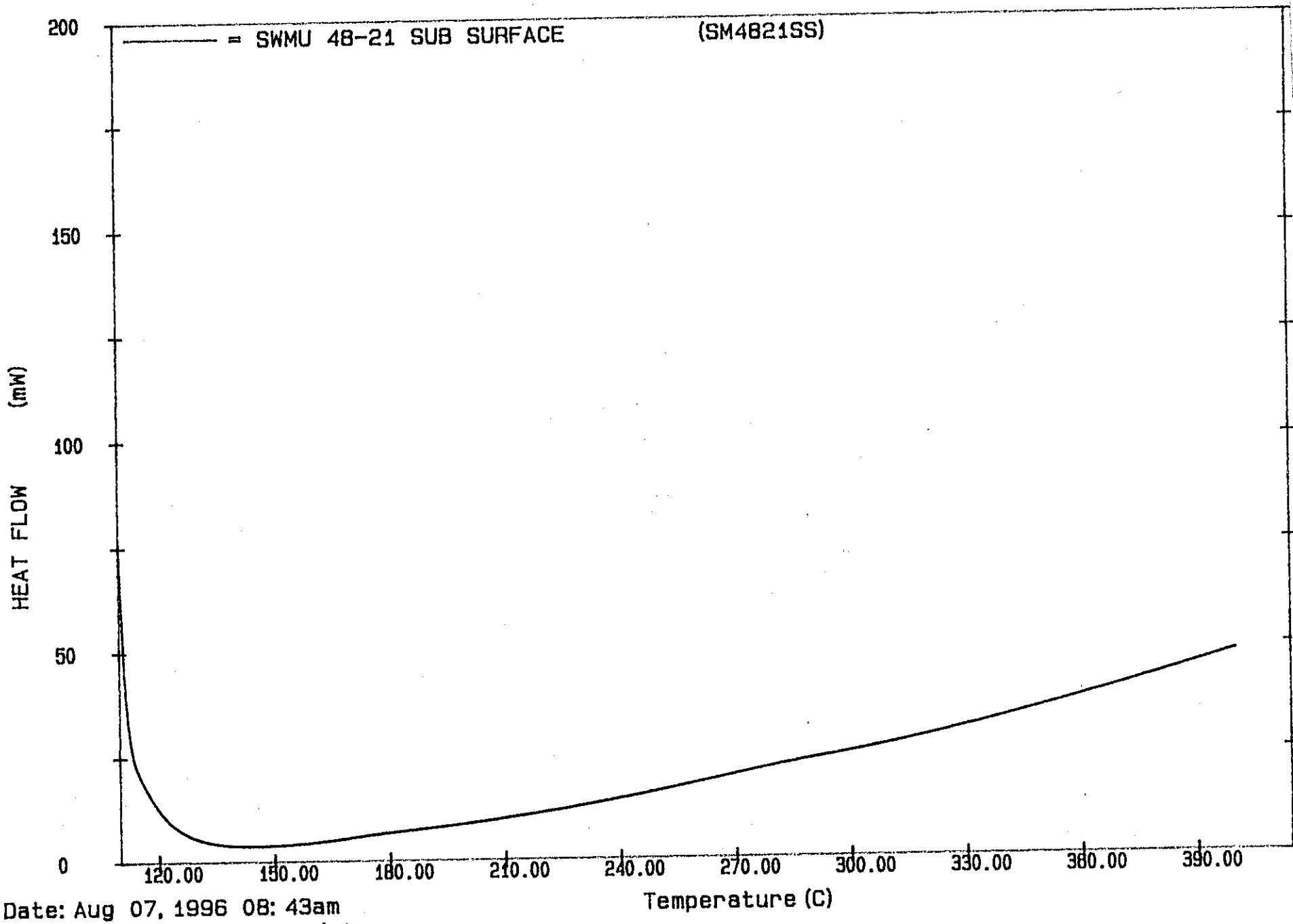

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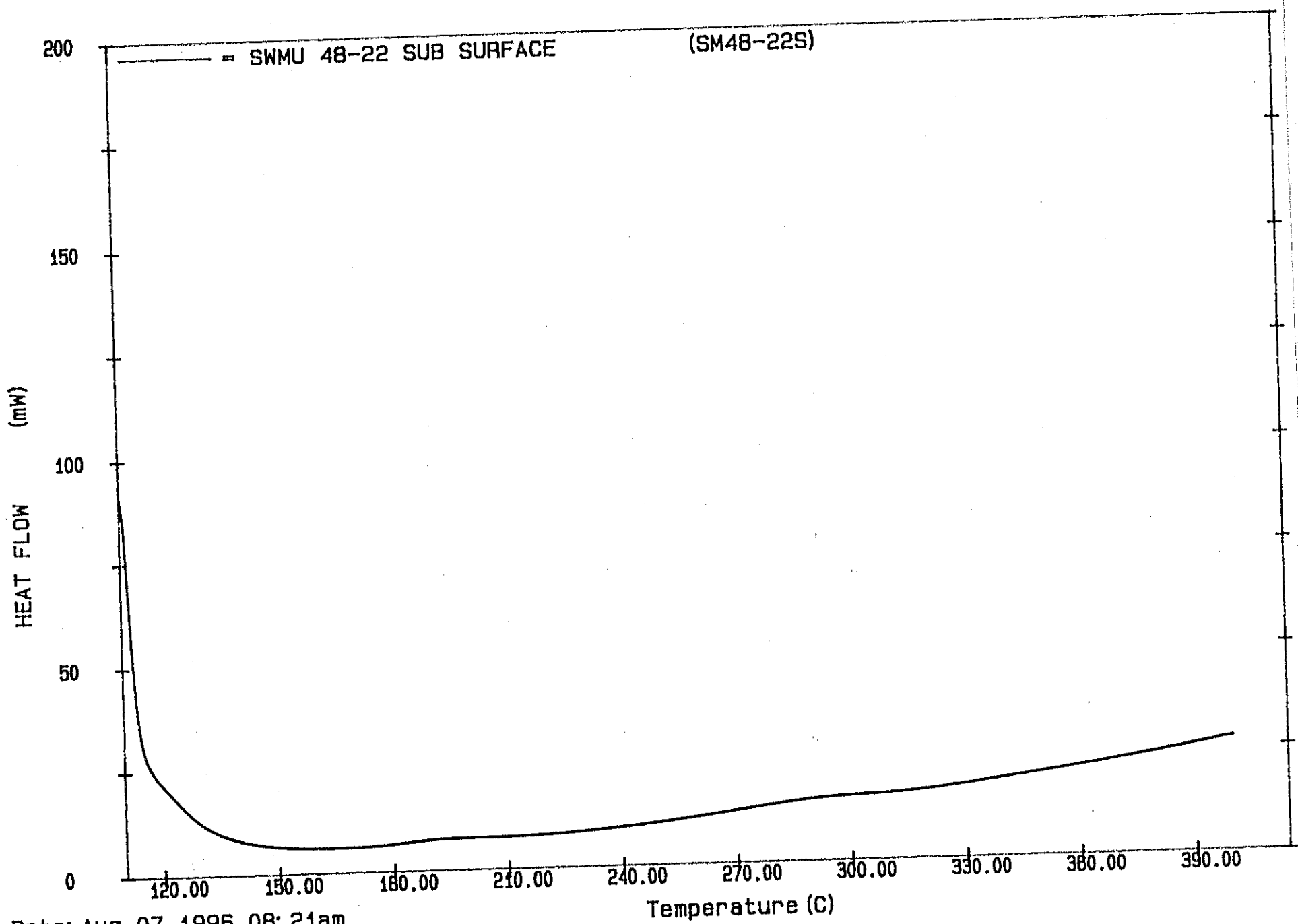
PE. IN-ELMER DSC7



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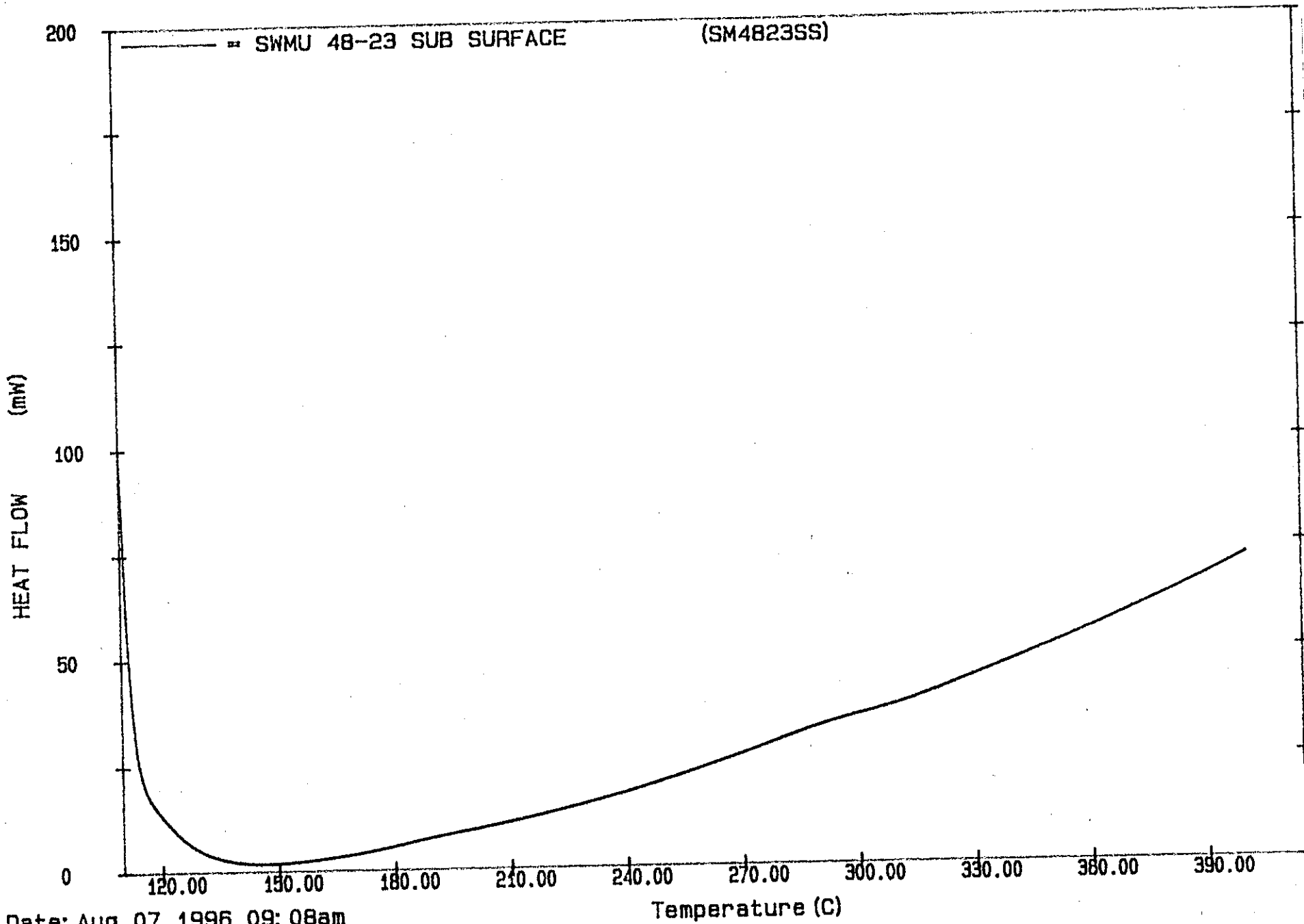
File SM48-22S ST 9-13-96

PERKIN-ELMER DSC7



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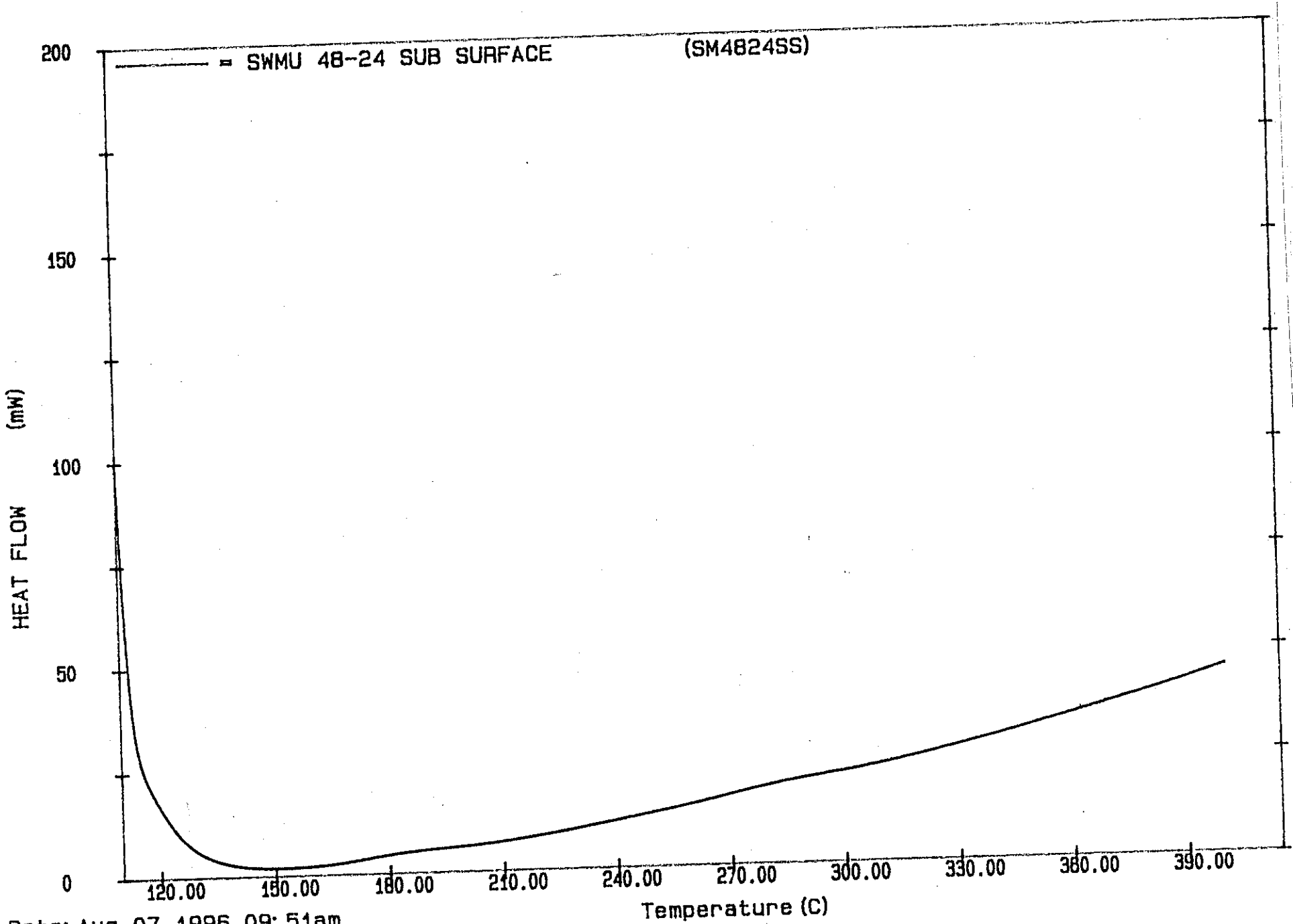

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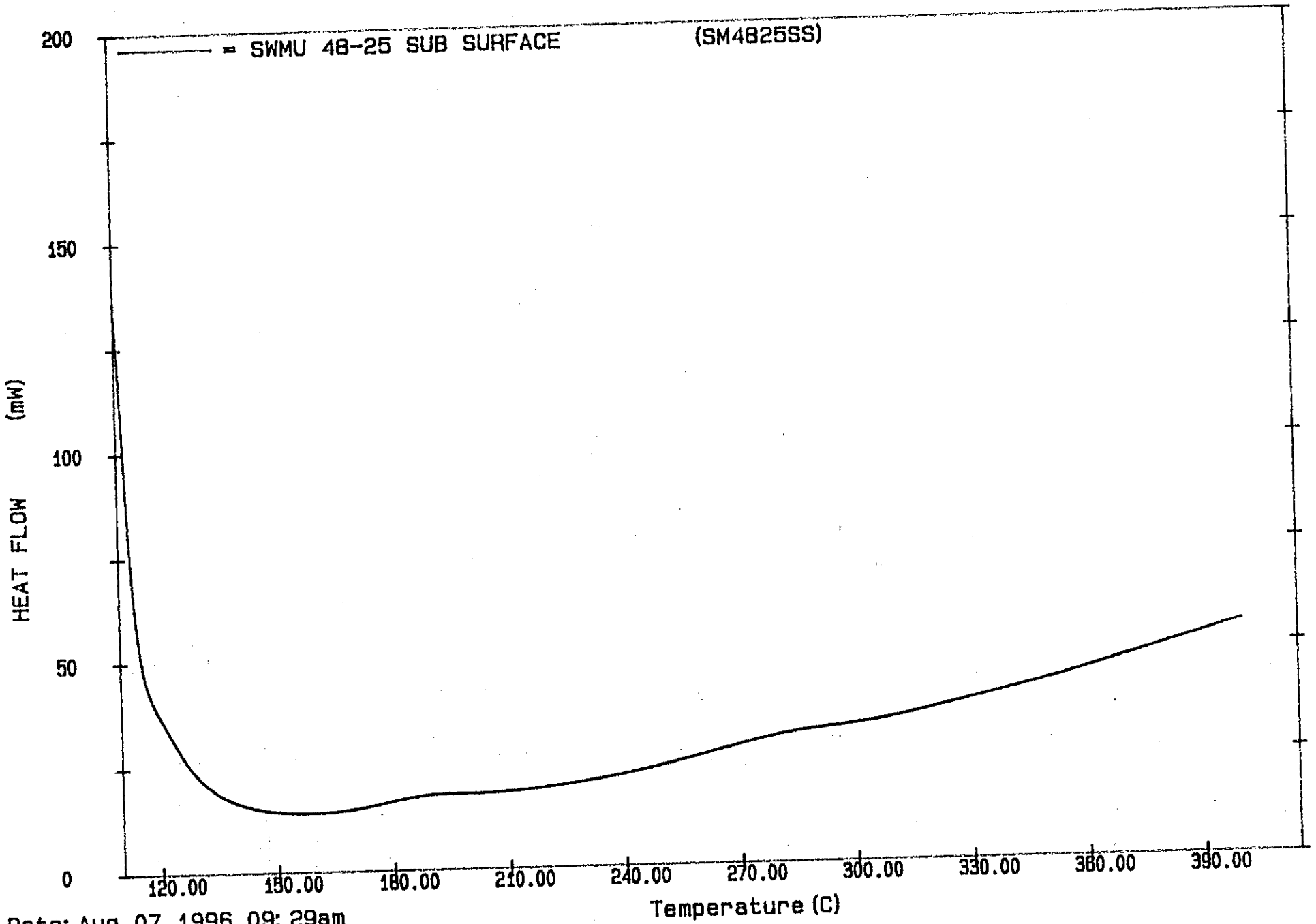

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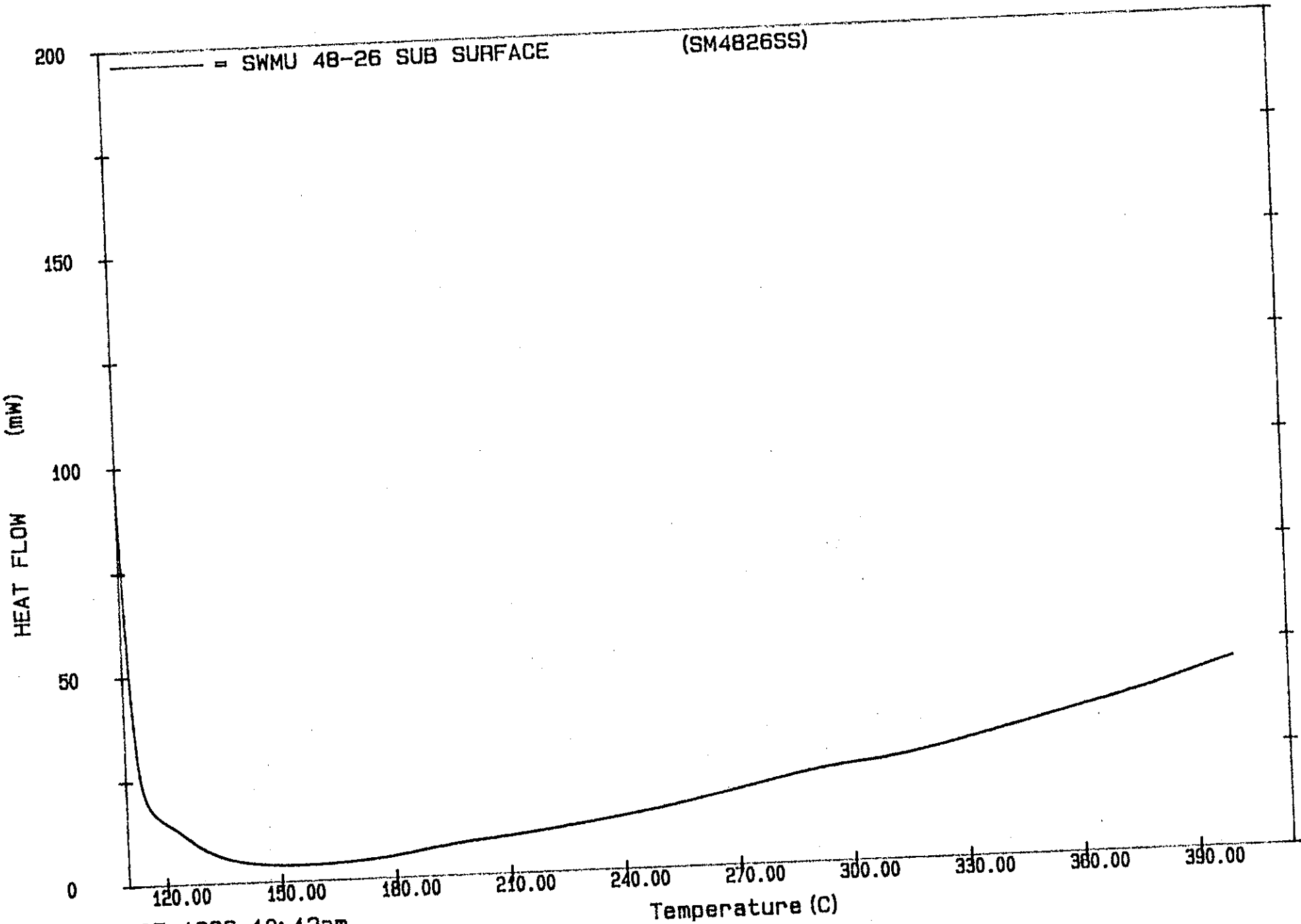
File: M4825SS ST 9-13-96

PERKIN-ELMER DSC7



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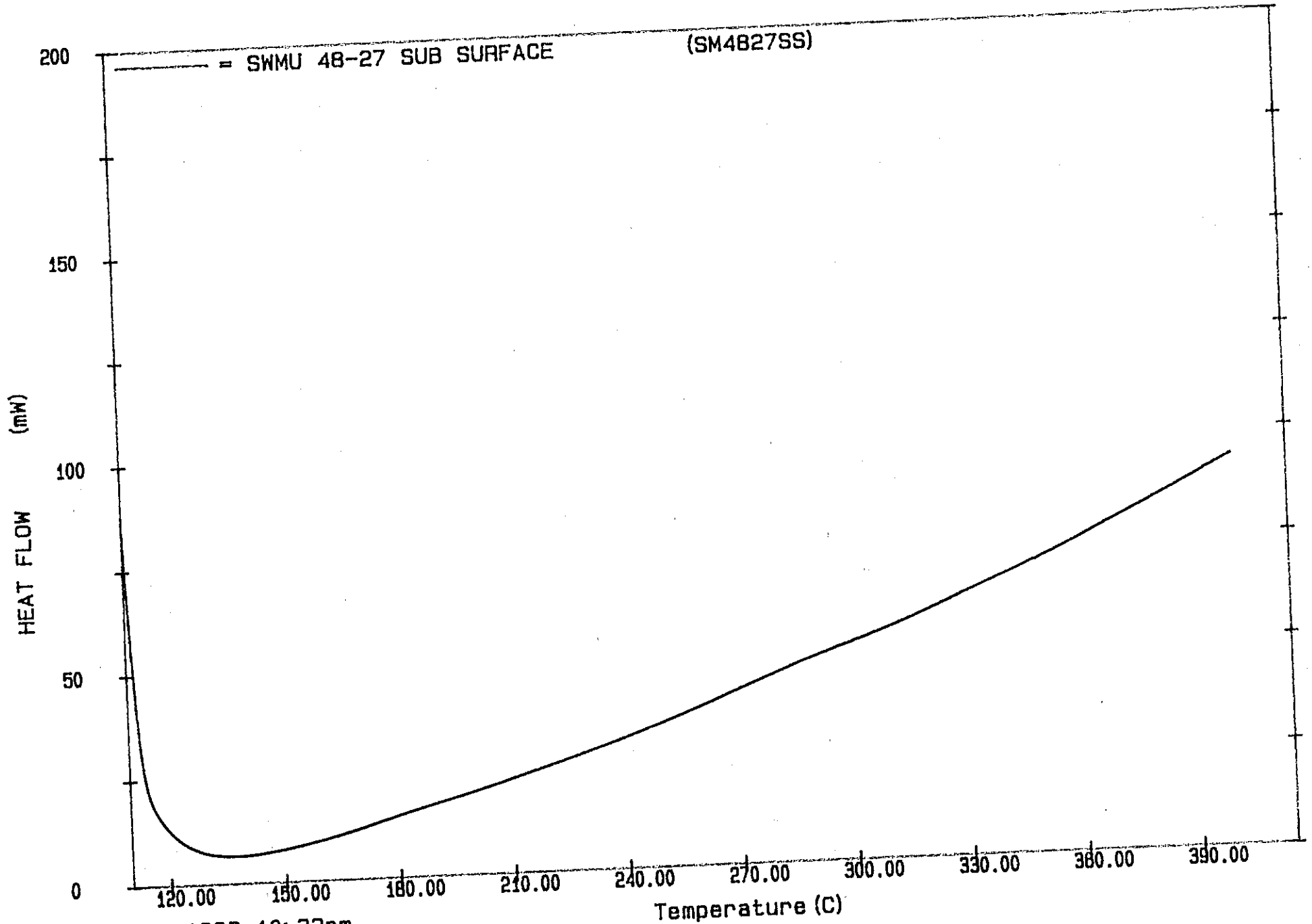
File SM4826SS ST 9-13-96

PE[illegible]TN-ELMER DSC7



Date: Aug 07, 1996 10:33am
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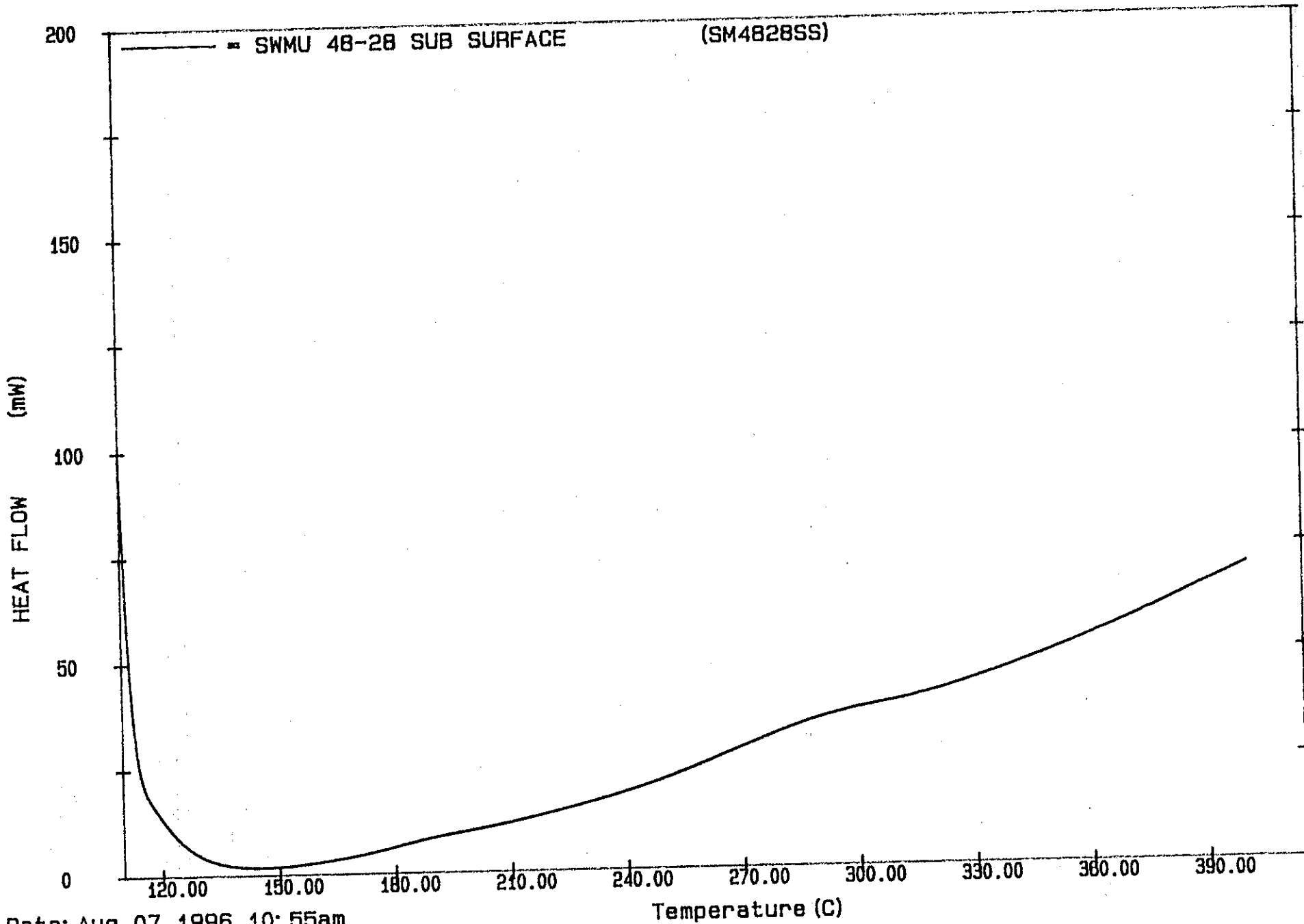
File SM4827SS ST 9-13-96

PERKIN-ELMER DSC7



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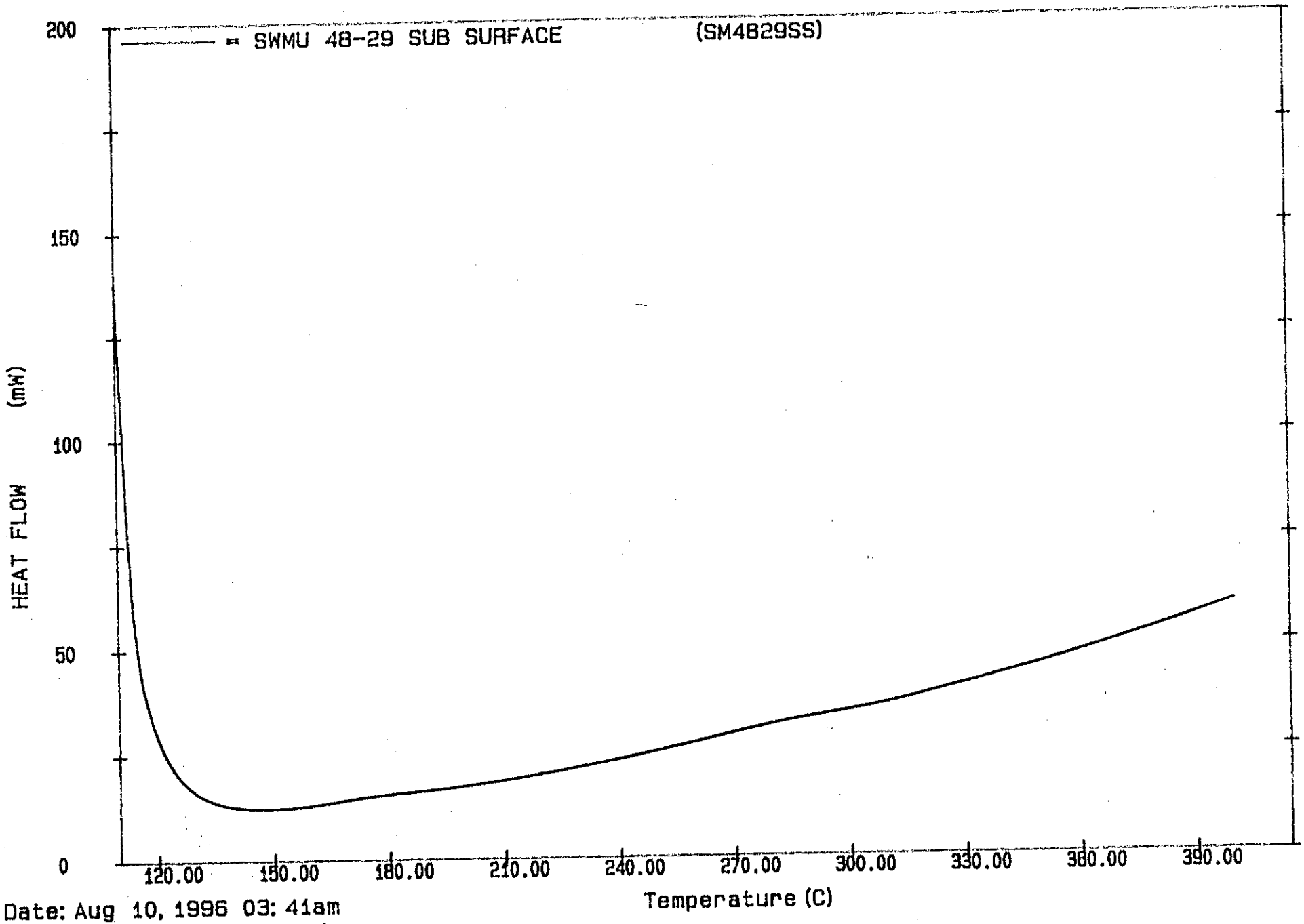
PERKIN-ELMER DSC7



Date: Aug 10, 1996 03: 41am
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File: M4829SS ST 9-16-96

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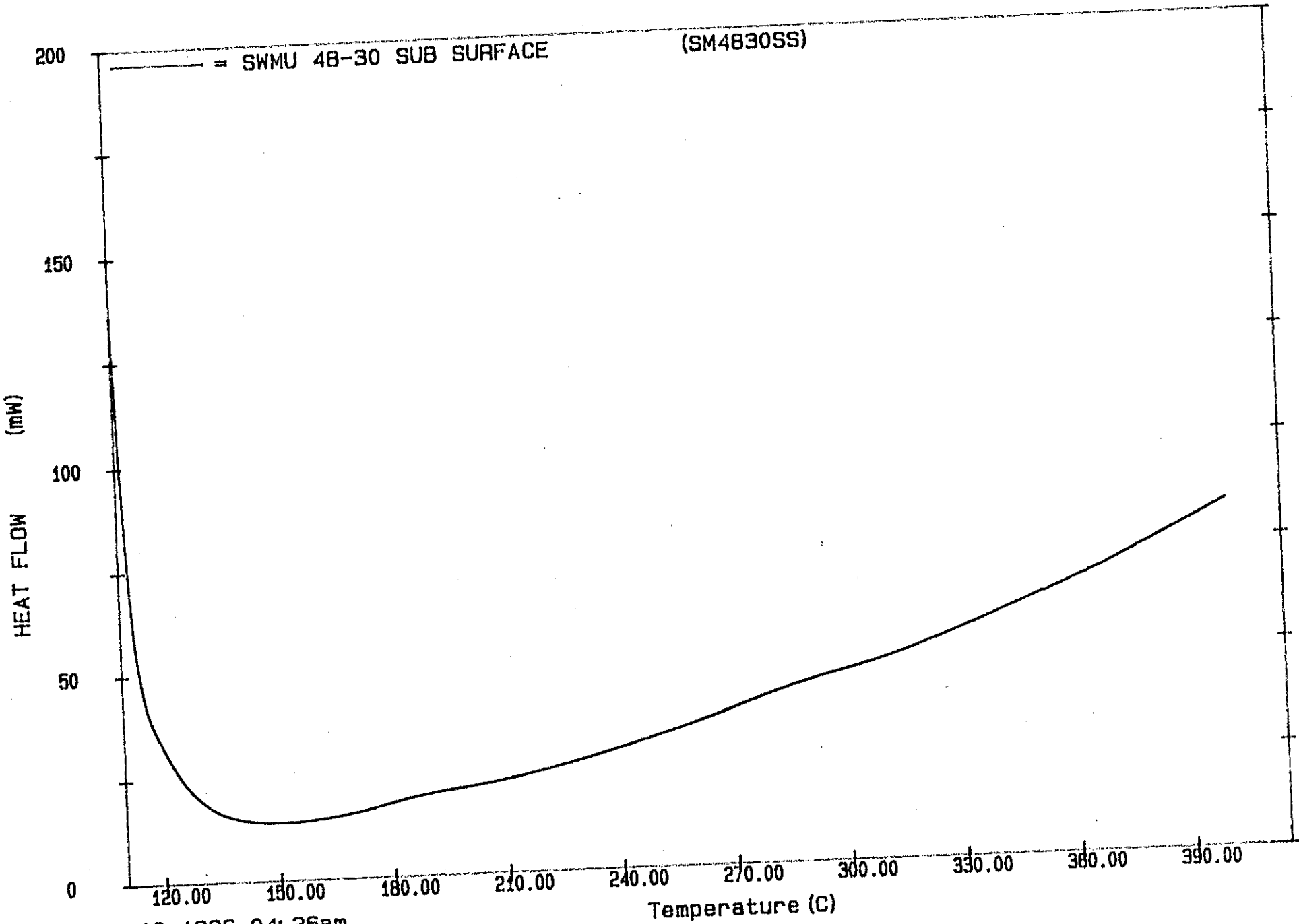

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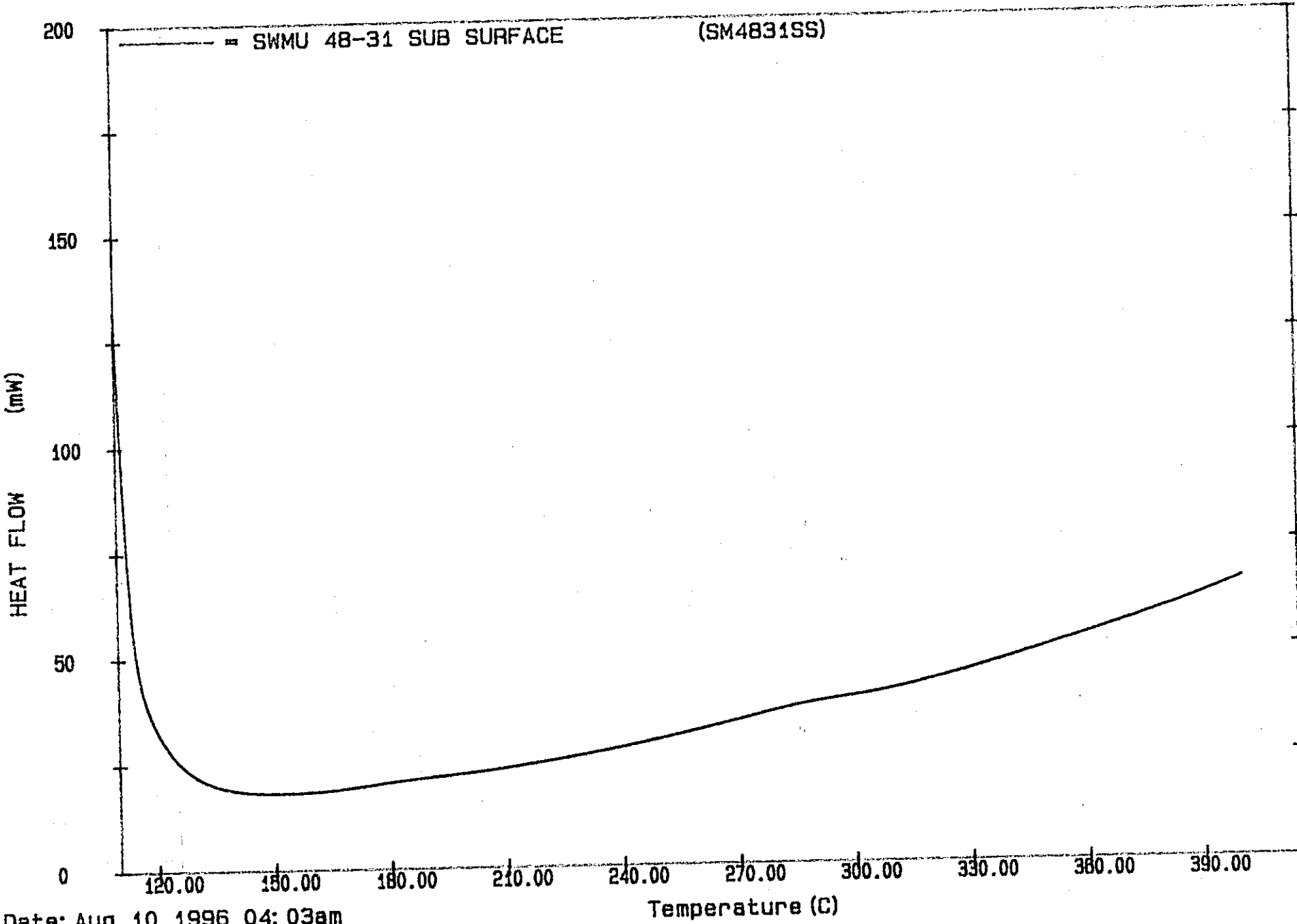

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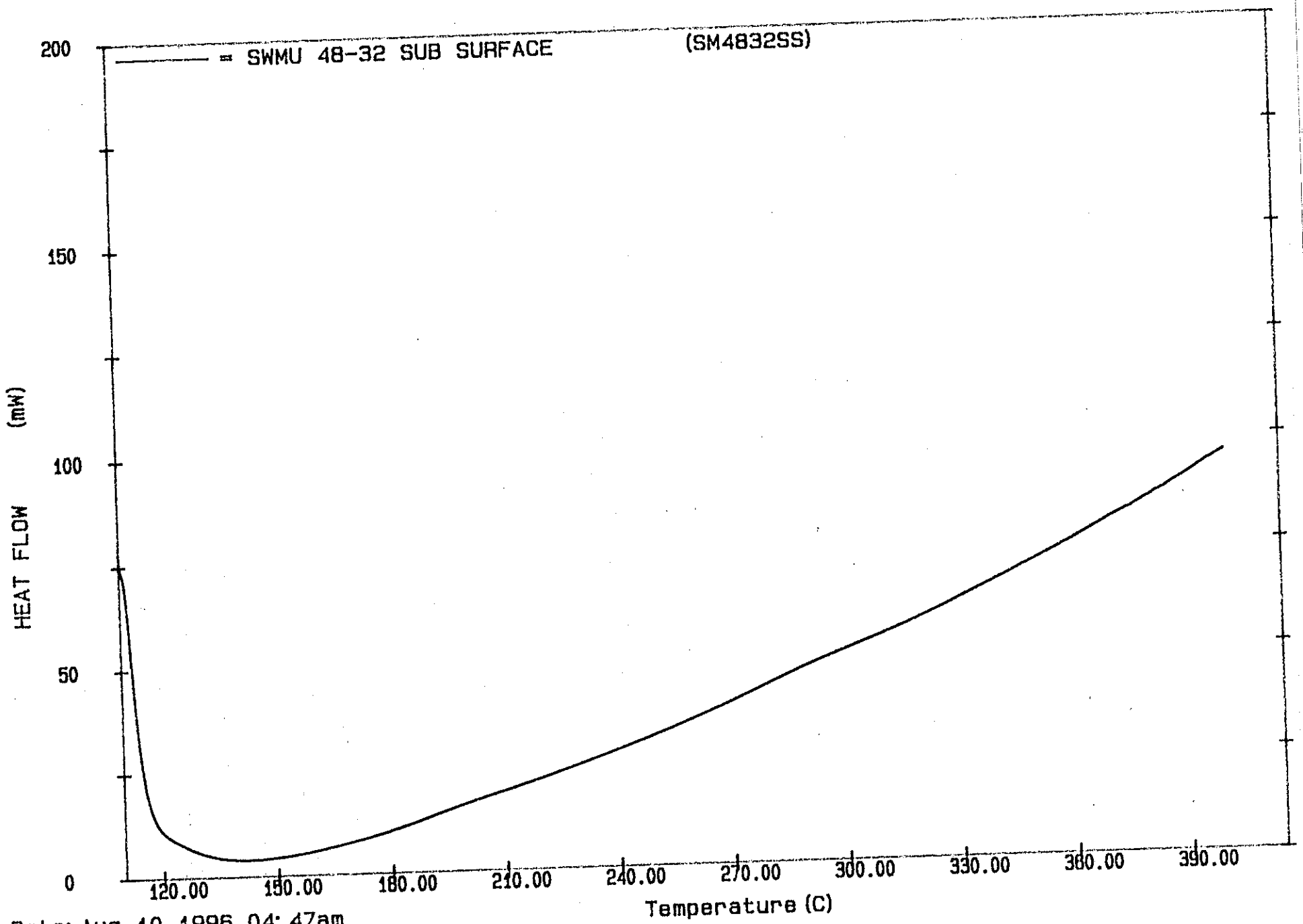

Date: Aug 10, 1996 04: 47am
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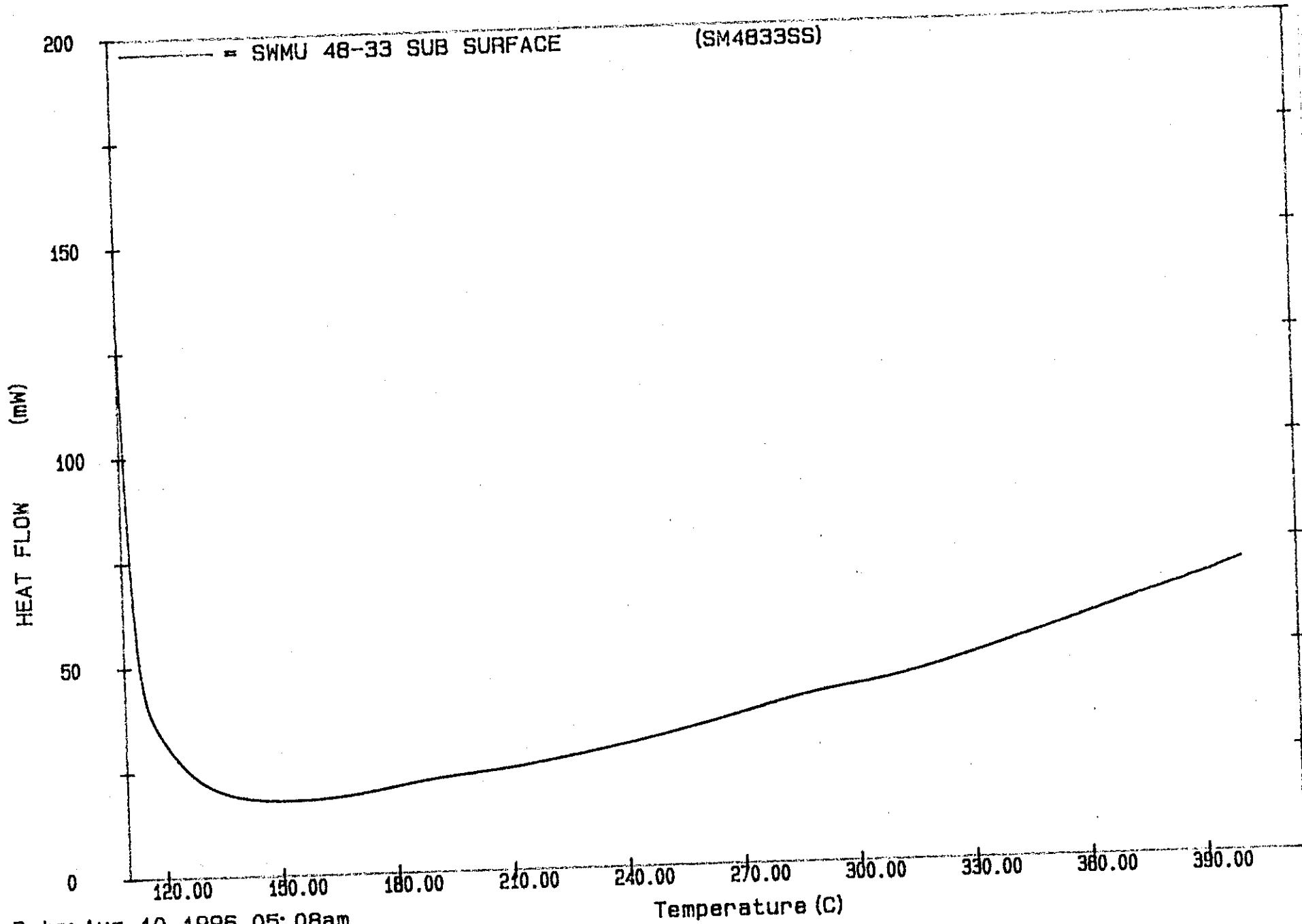
PERKIN-ELMER DSC7



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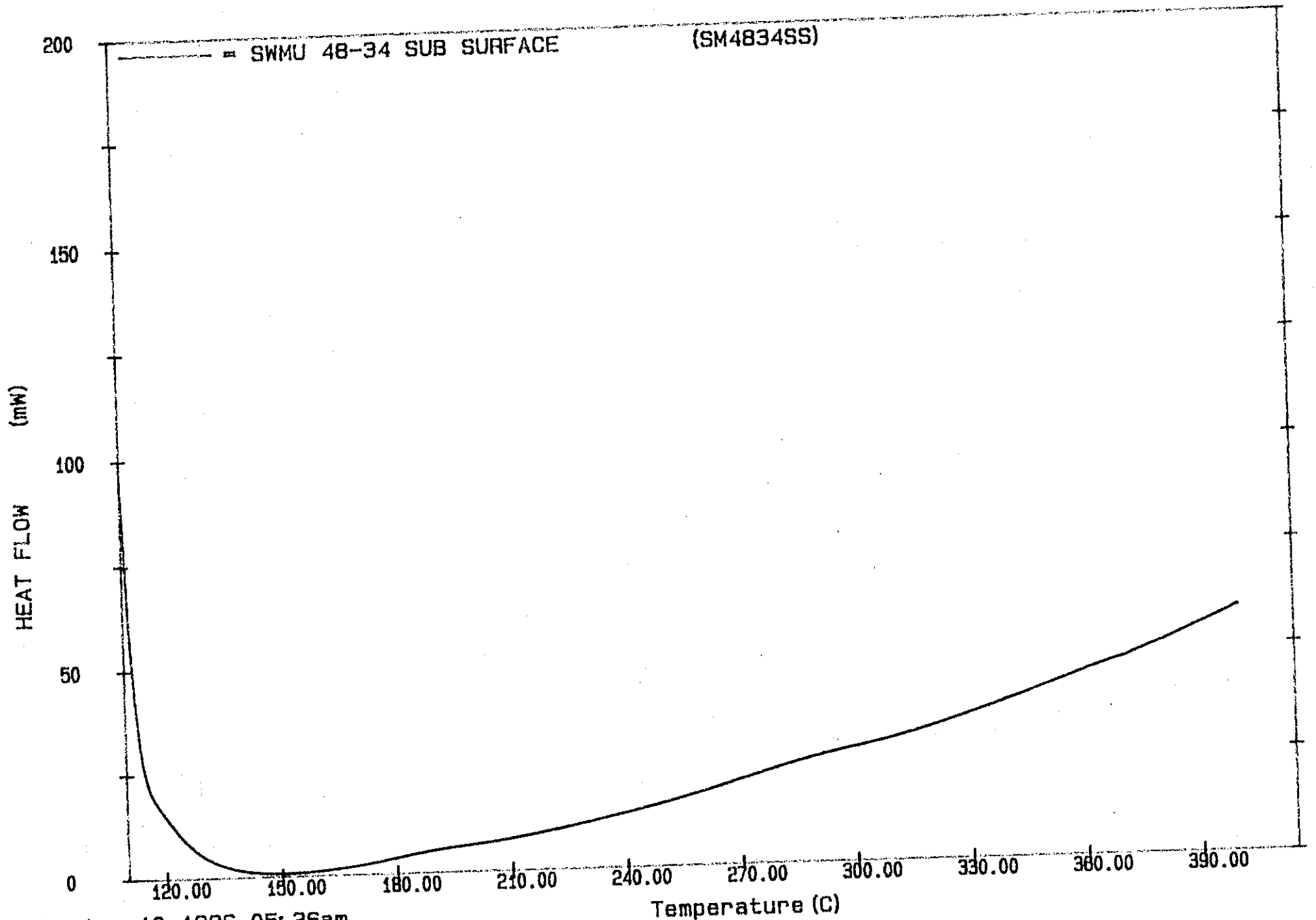
File: SM4833SS ST 9-16-96

PERKIN-ELMER DSC7



Date: Aug 10, 1996 05:36am
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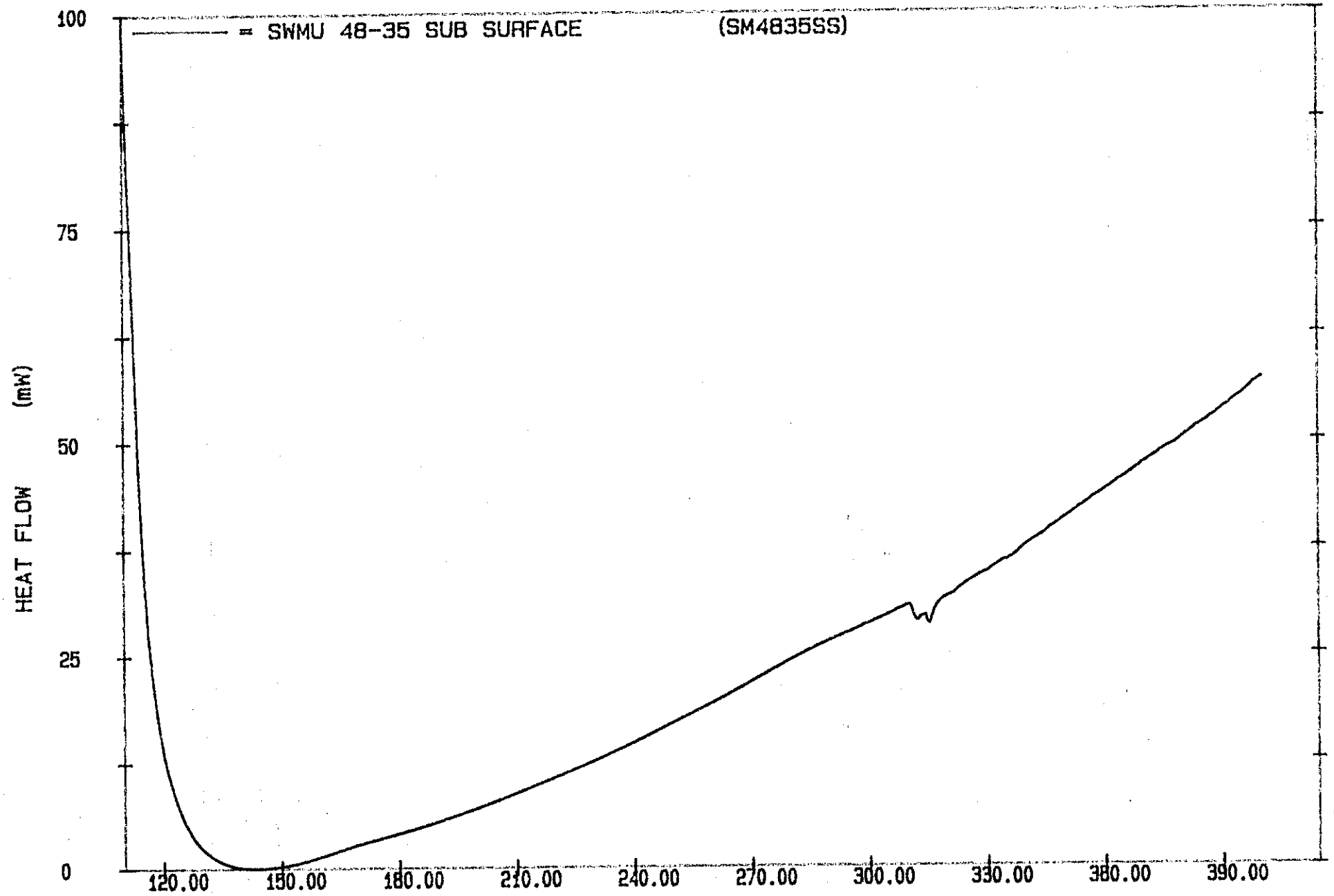
File SM4834SS ST 9-16-96

PERKIN-ELMER DSC7



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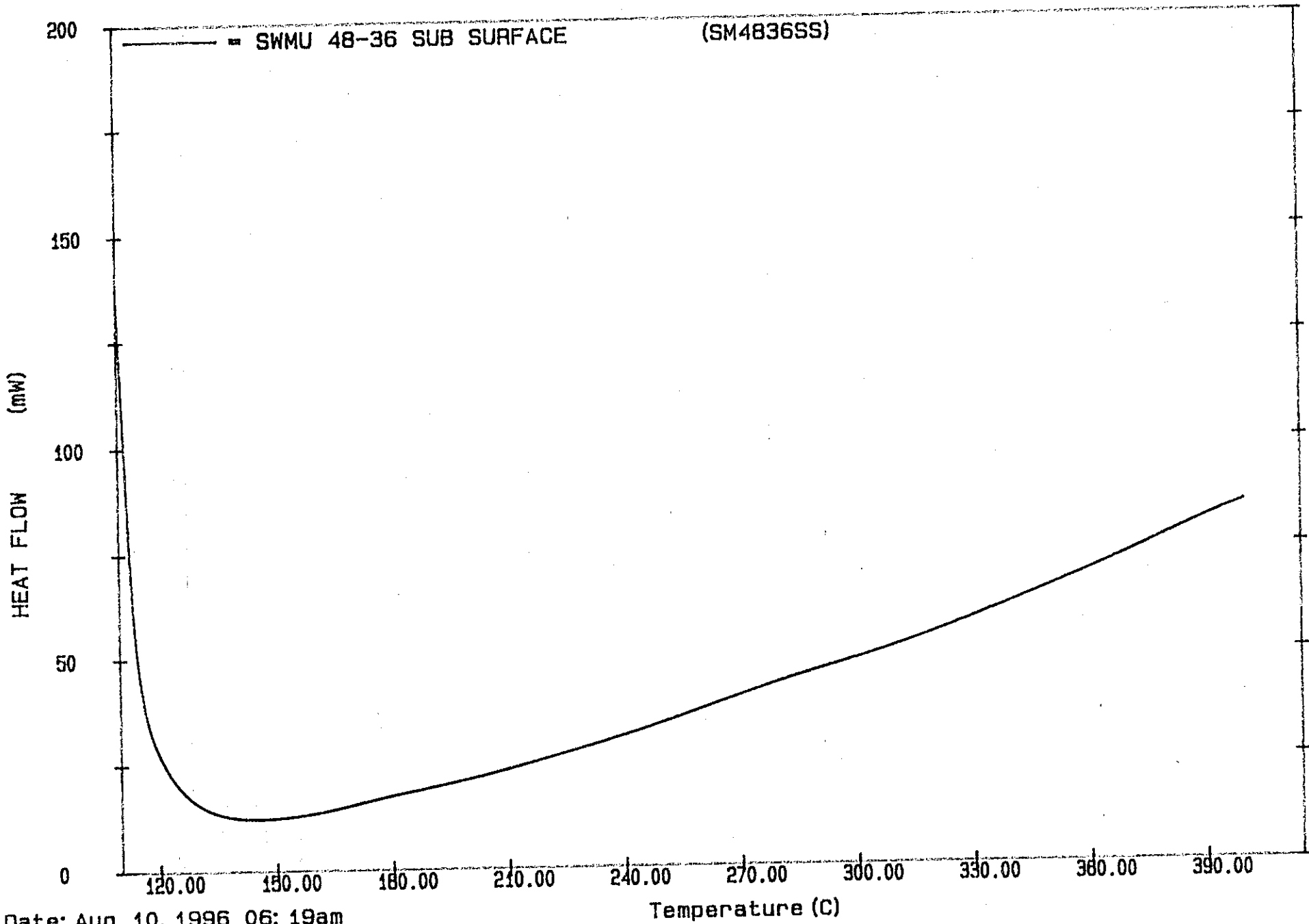
File M4835SS ST 9-16-96

PERKIN-ELMER DSC7



Date: Aug 10, 1996 06: 19am
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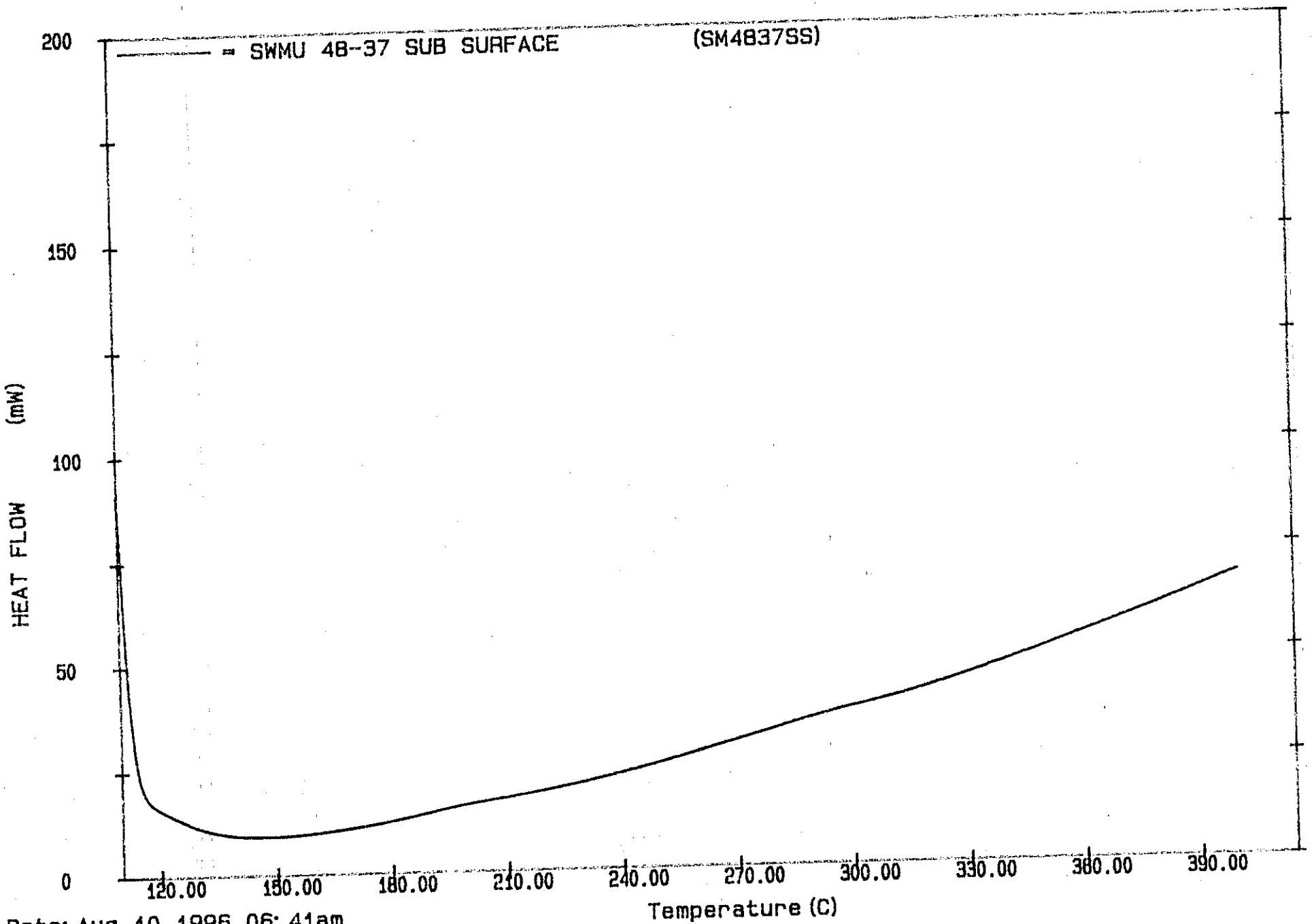
PE TN-ELMER DSC7



Date: Aug 10, 1996 06: 41am
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File SM4837SS ST 9-16-96

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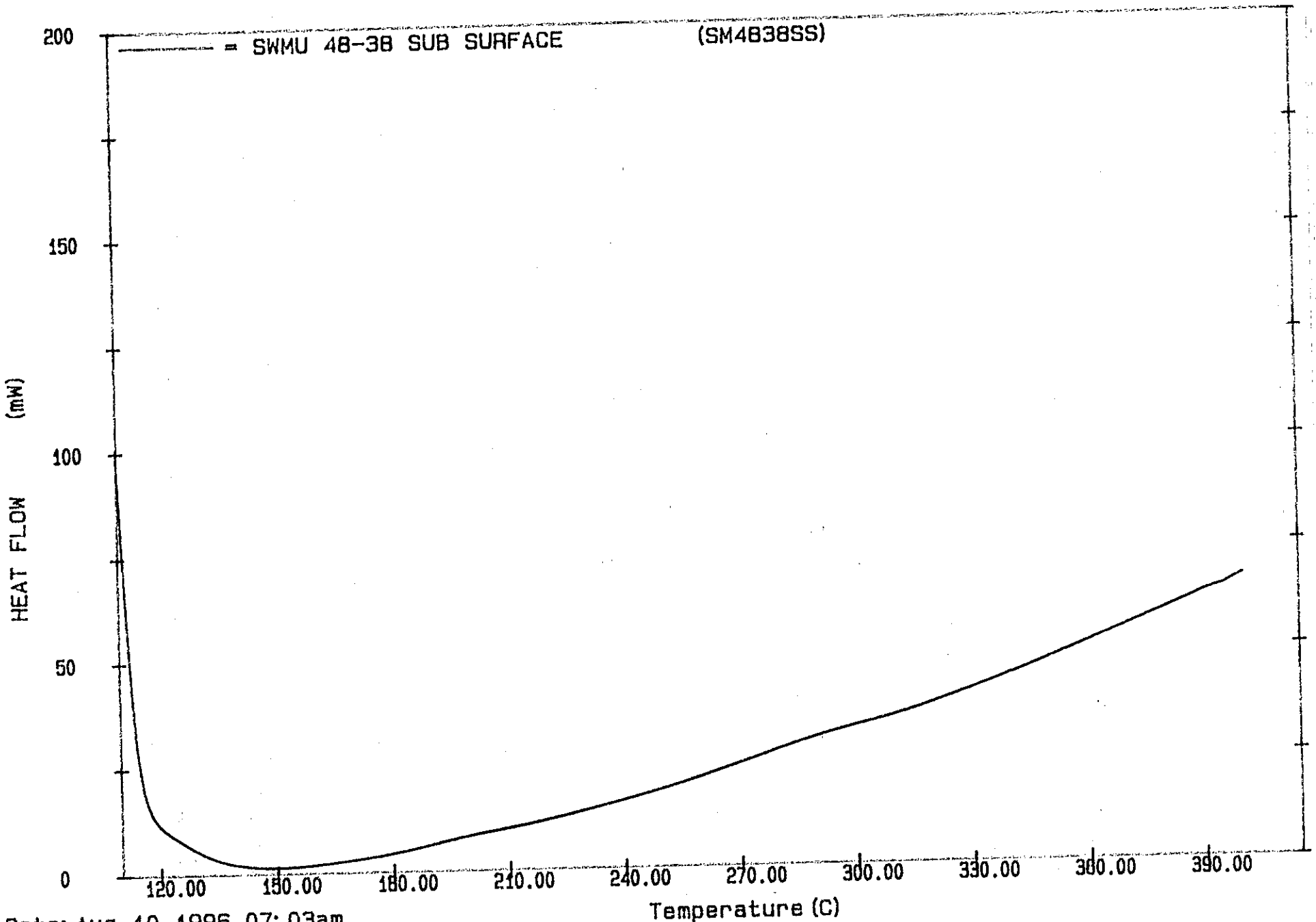

Date: Aug 10, 1996 07:03am
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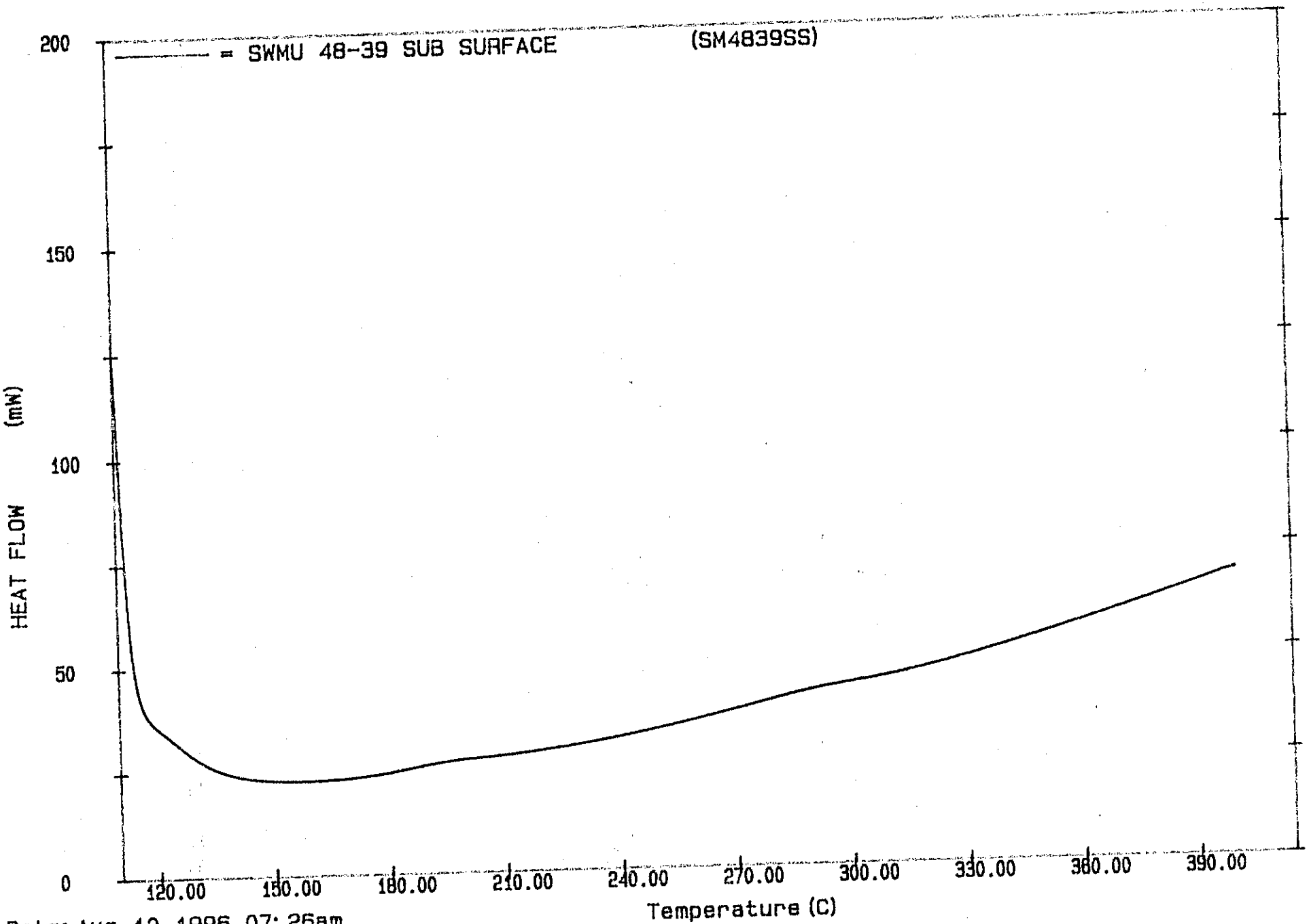
Sample Wt: 0.000 mg Path: C:\PE\
File SM4838SS ST 9-16-96

PERKIN-ELMER DSC7



Date: Aug 10, 1996 07: 26am
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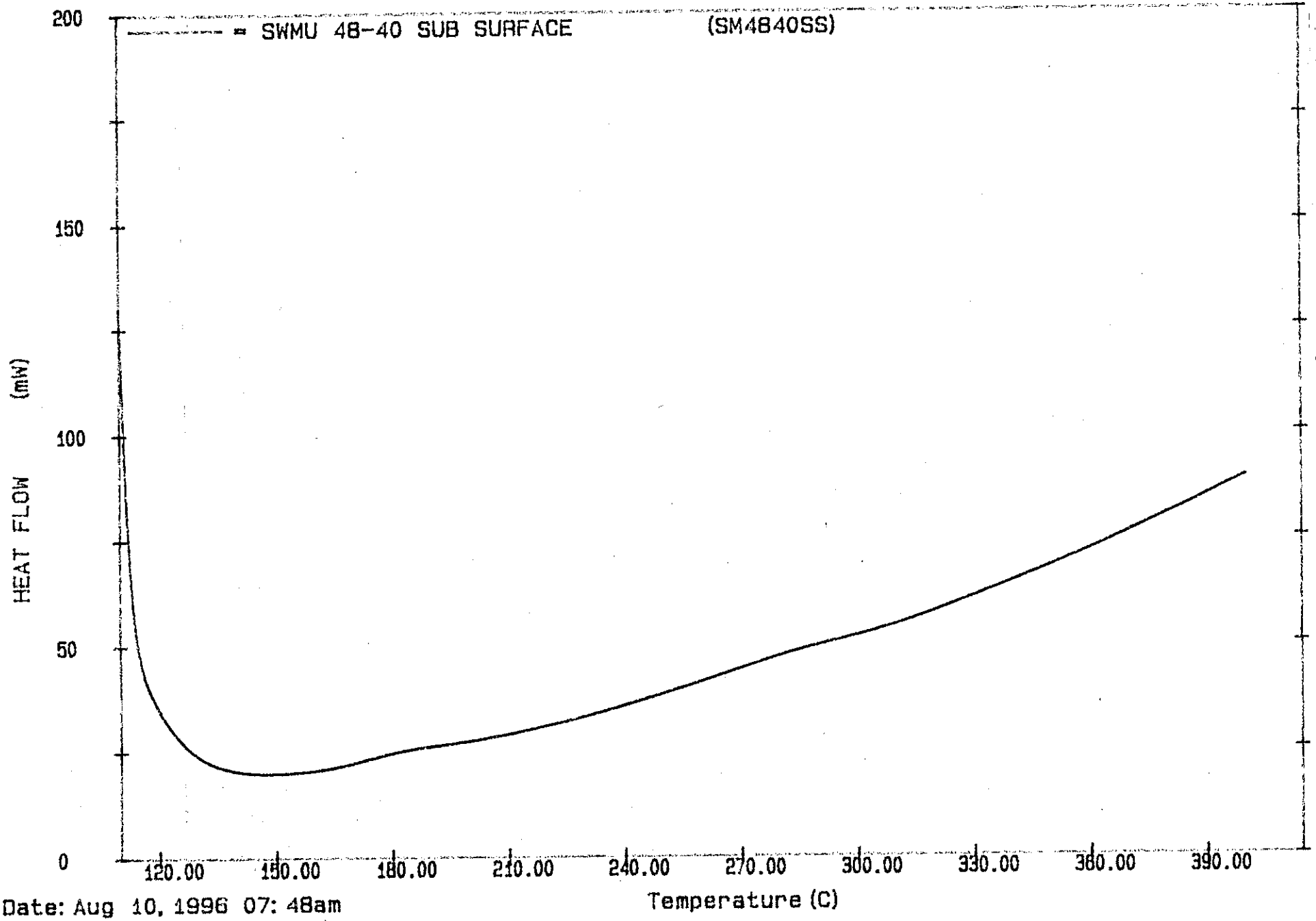
File SM4839SS ST 9-16-96

PERKIN-ELMER DSC7



Date: Aug 10, 1996 07: 48am
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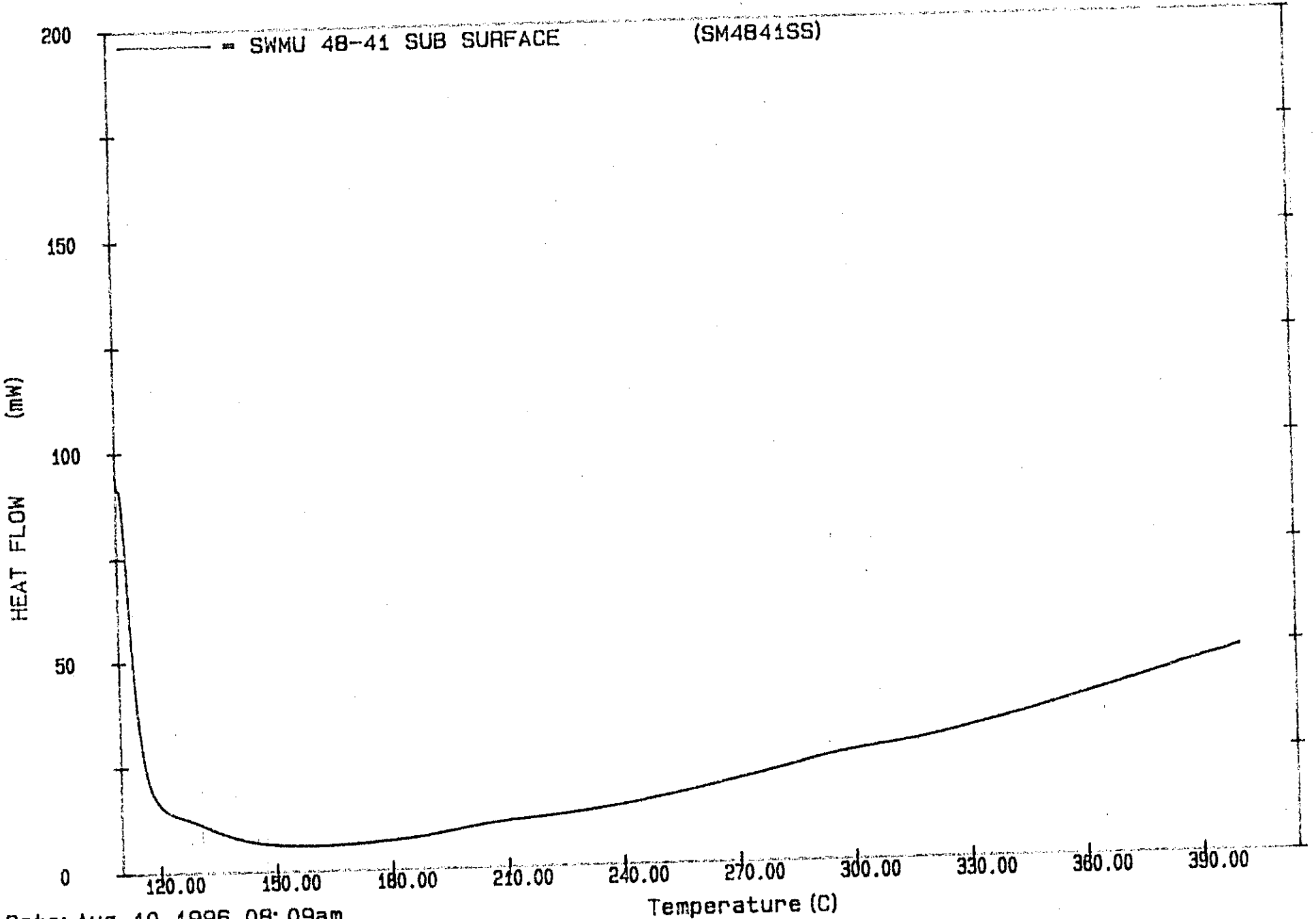
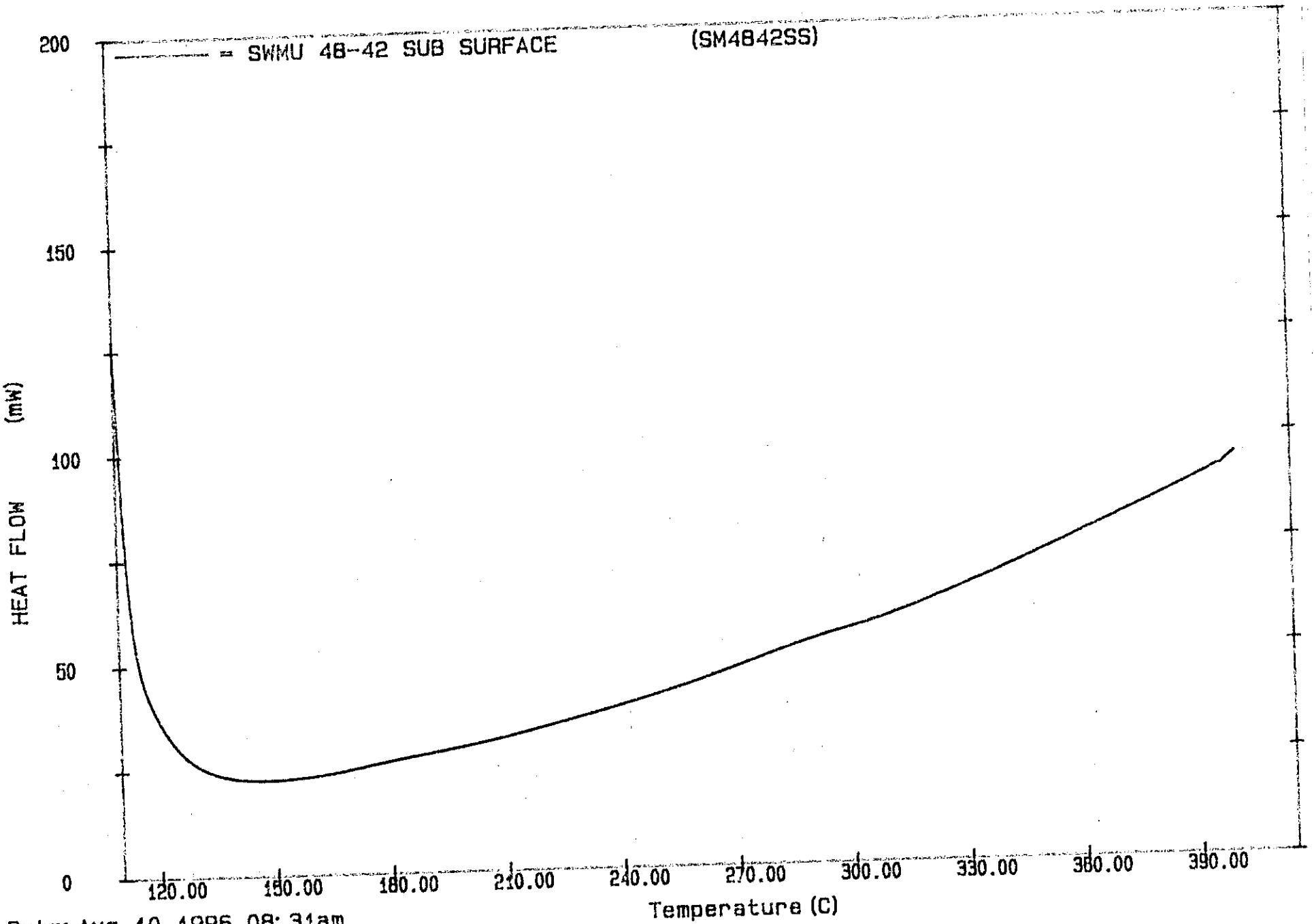
FI SM4840SS ST 9-16-96

PE IN-ELMER DSC7



Date: Aug 10, 1996 08:09am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File SM4841SS ST 9-16-96

PERKIN-ELMER DSC7



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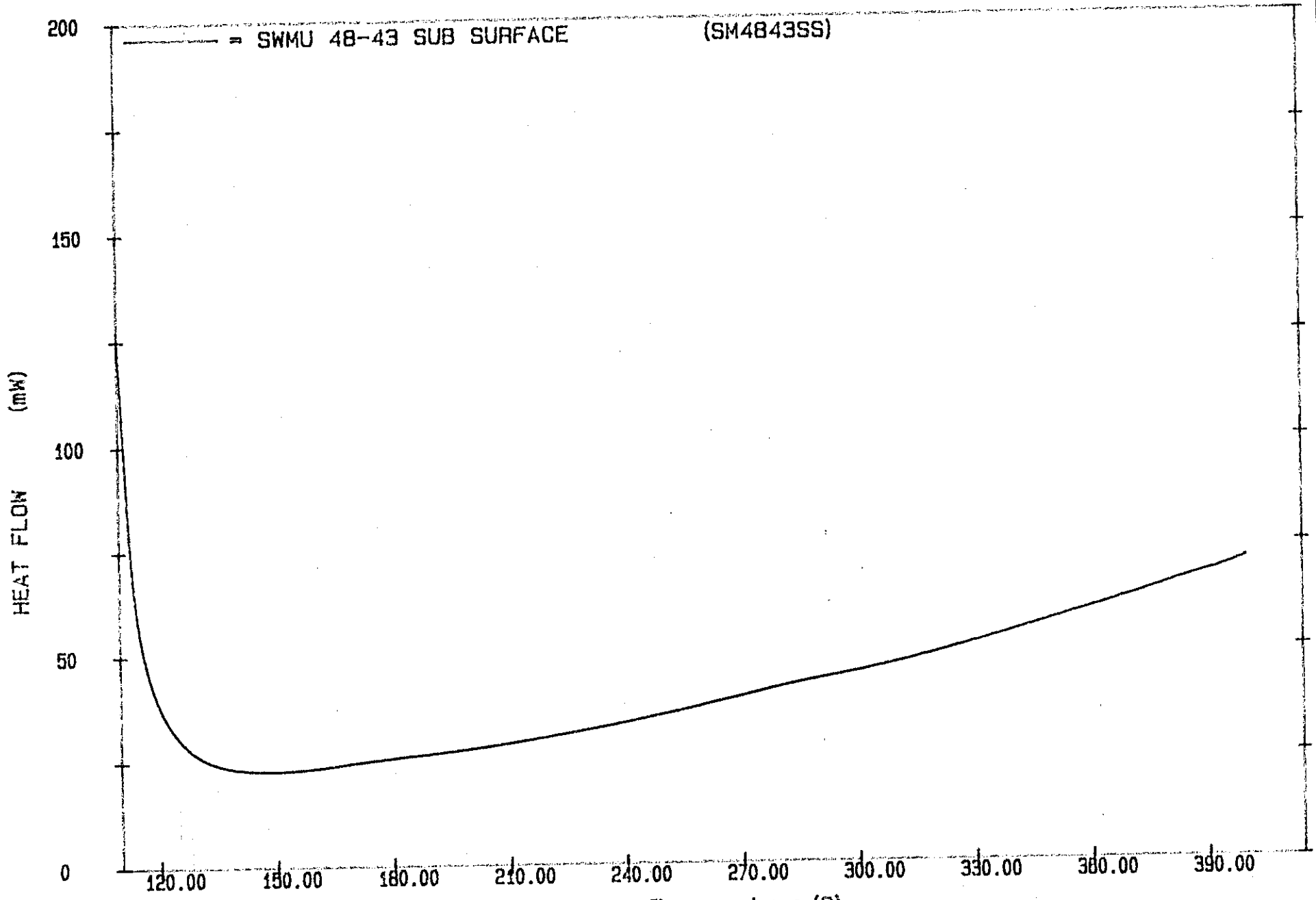
File: SM4842SS ST 9-16-96

PERKIN-ELMER DSC7



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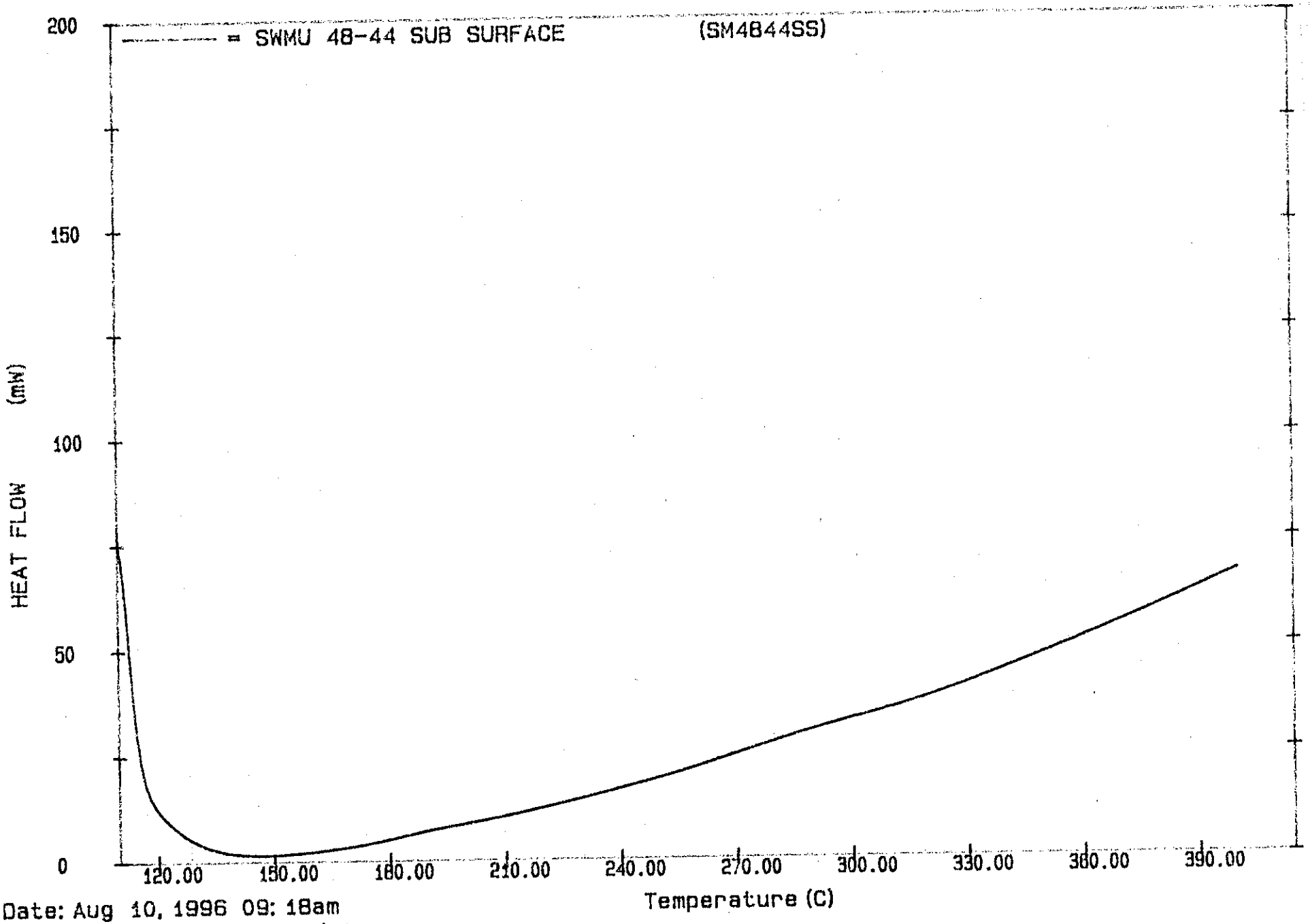
File: SM4843SS ST 9-16-96

PERKIN-ELMER DSC7



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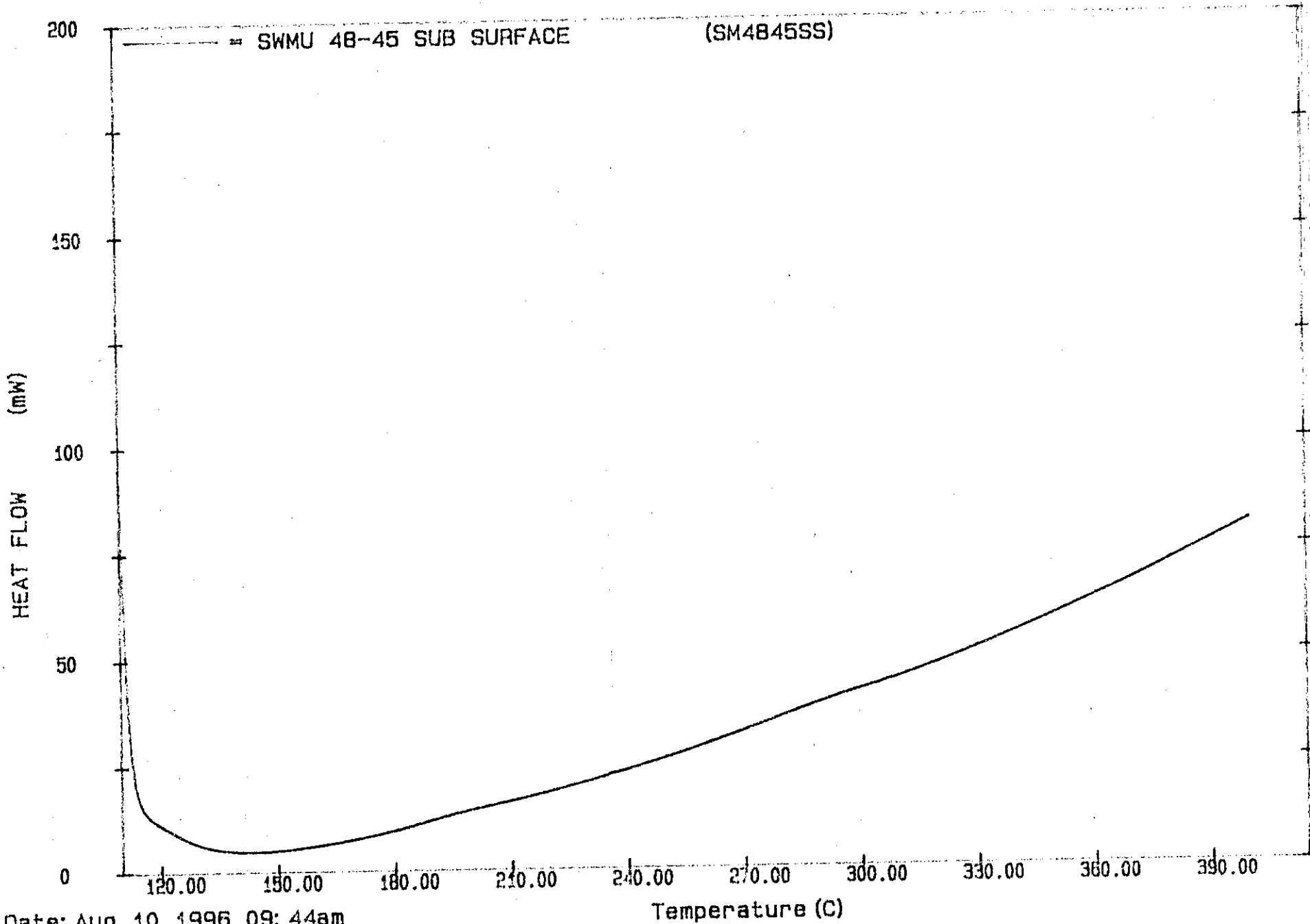
File SM4844SS ST 9-16-96

PERKIN-ELMER DSC7



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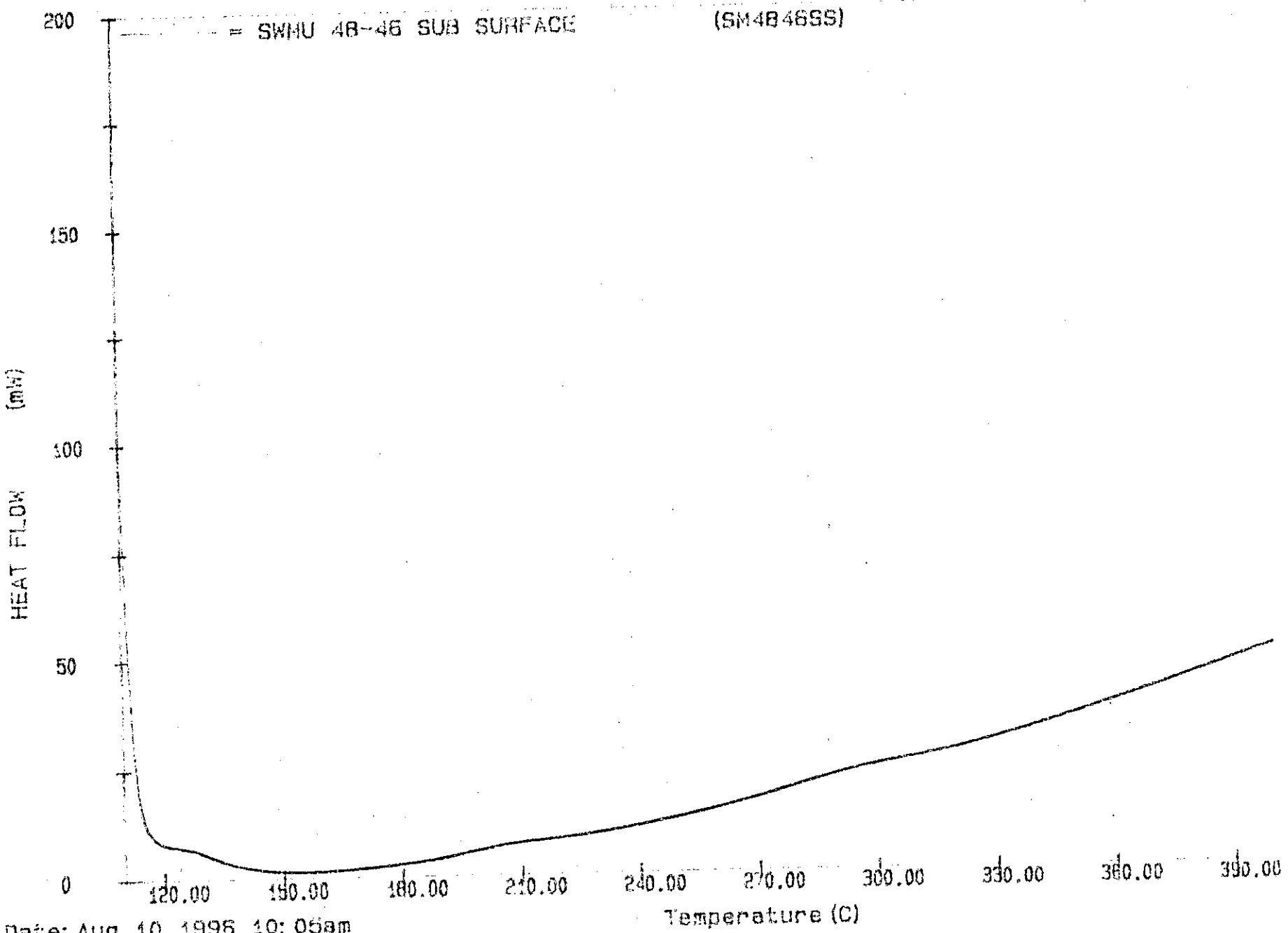
F1 : SM4845SS ST 9-16-96

PERKIN-ELMER DSC7



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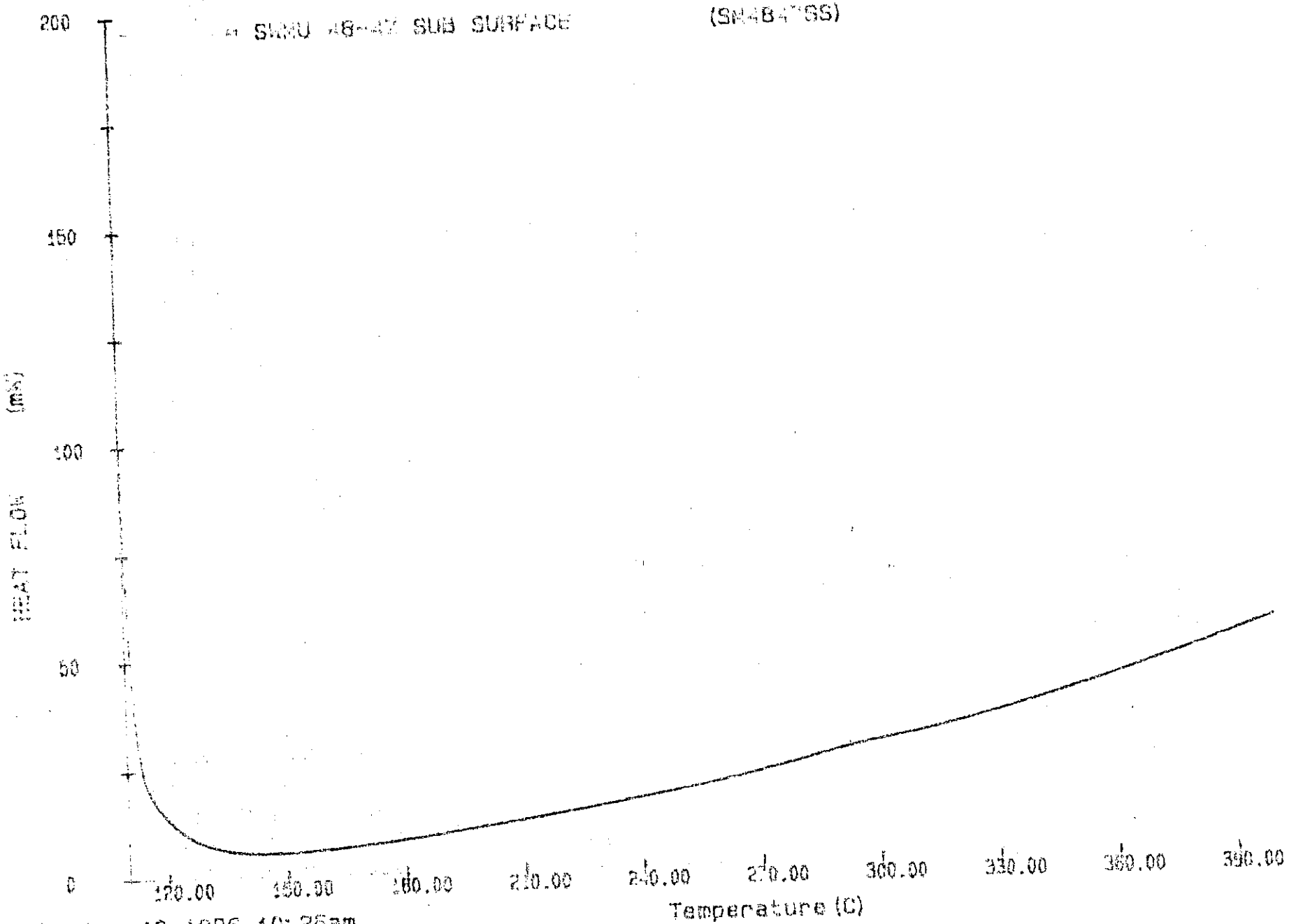
File: SM4846SS ST 9-16-96

PERKIN-ELMER DSC7



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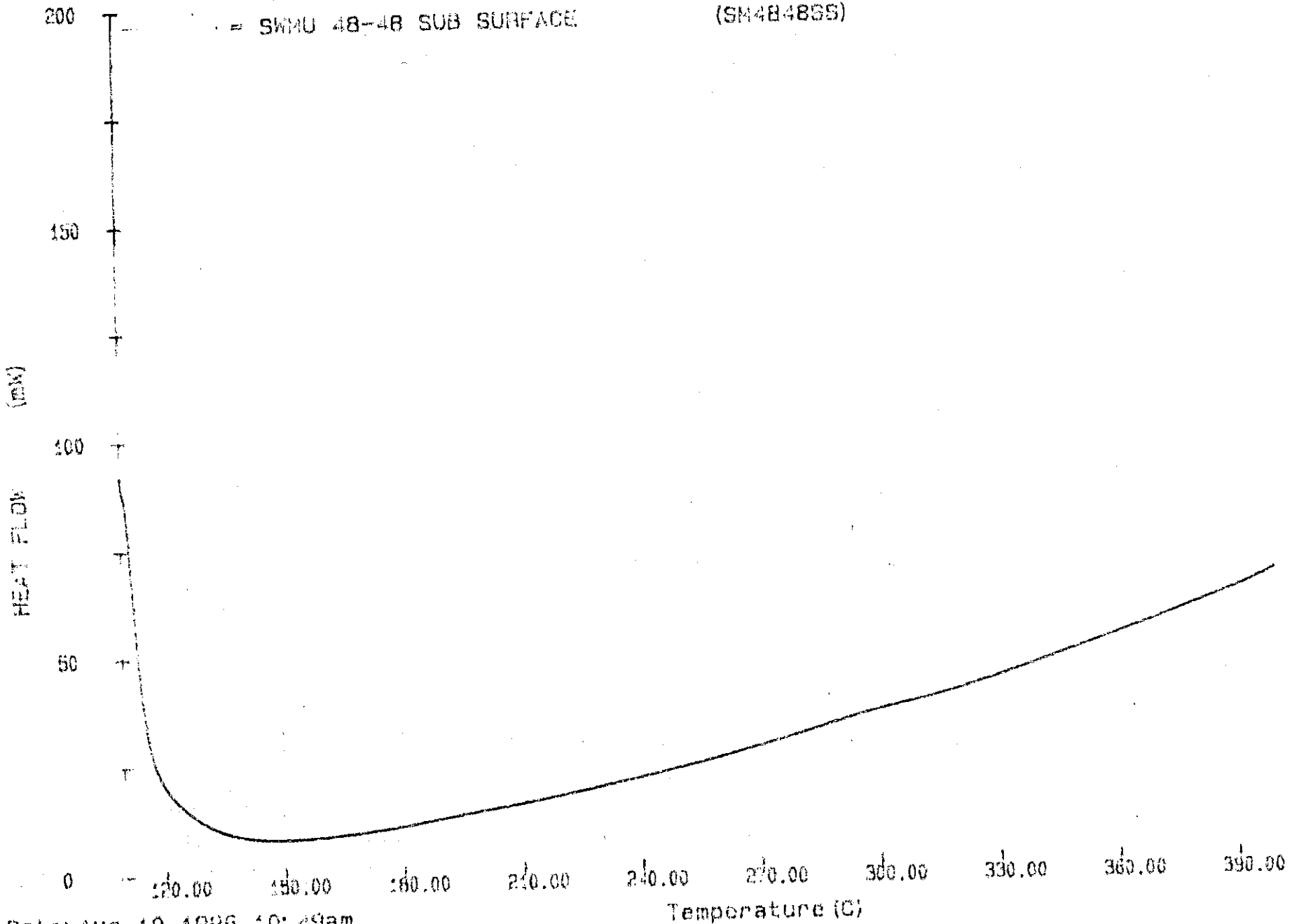
FILE: SM48-SS ST 9-16-96



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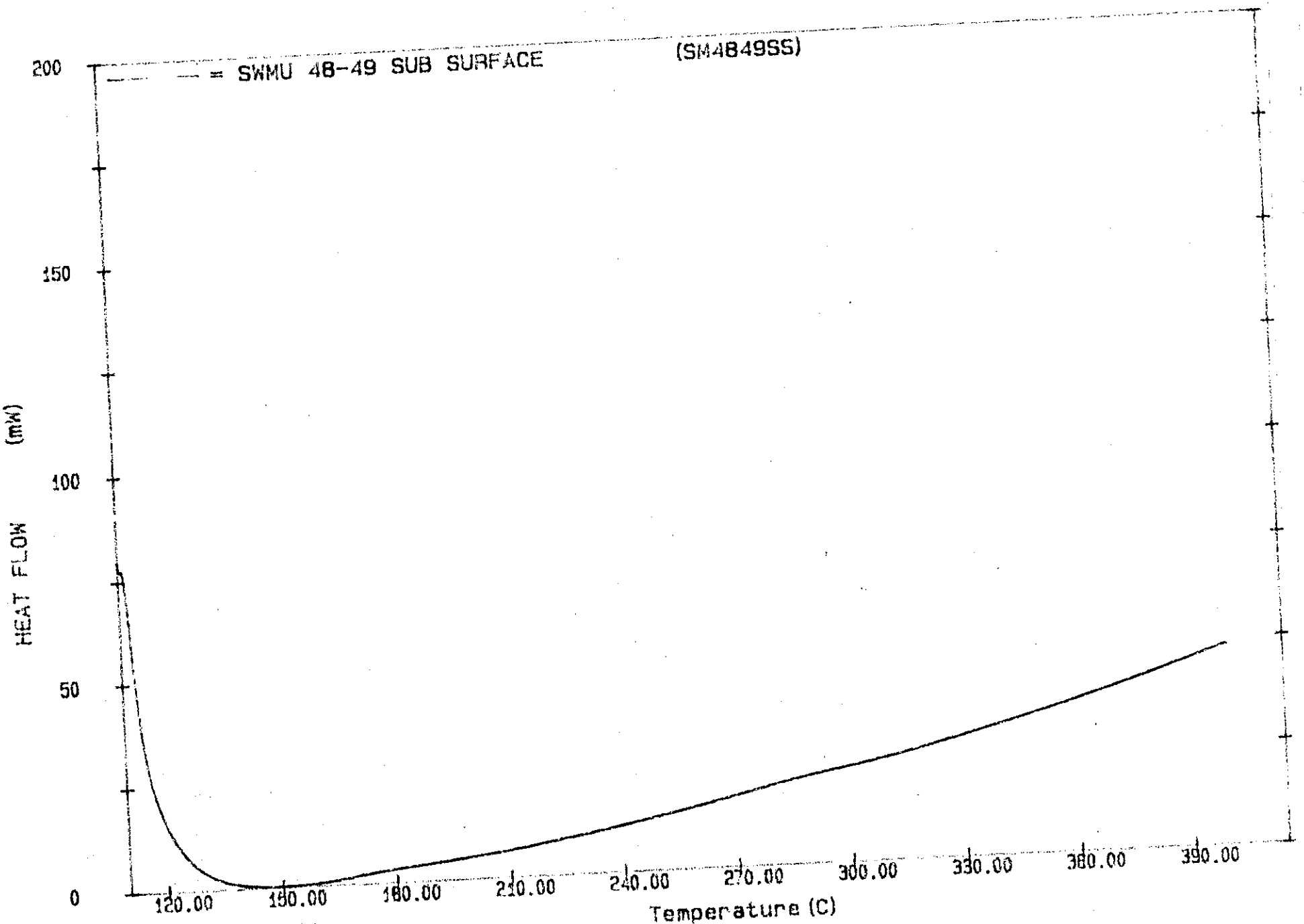
File SM48-8SS ST 9-16-96



Date: Aug 10, 1996 11:11am
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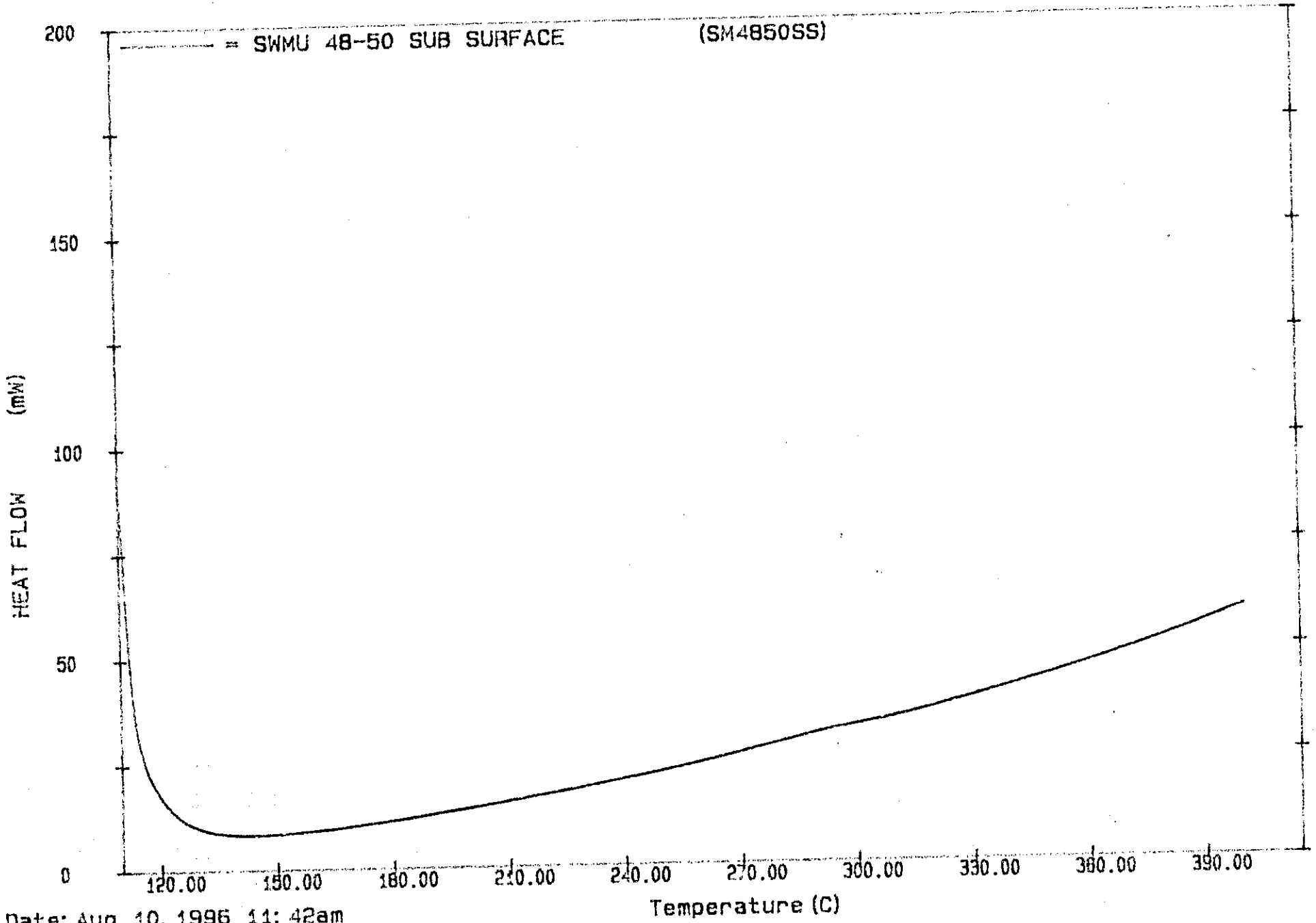
FIL[illegible] SM4849SS ST 9-16-96

PERKIN-ELMER DSC7



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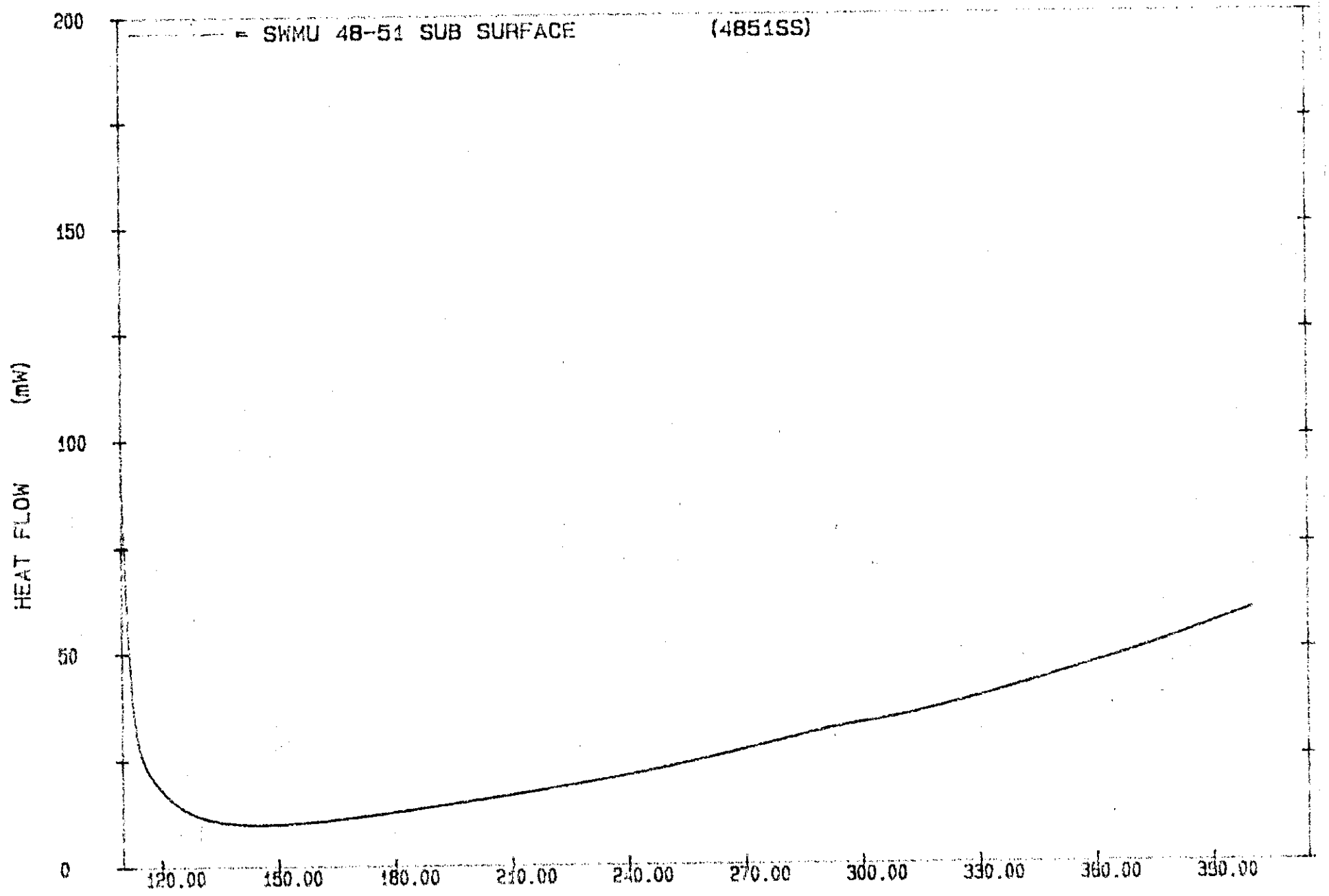
PERKIN-ELMER DSC7



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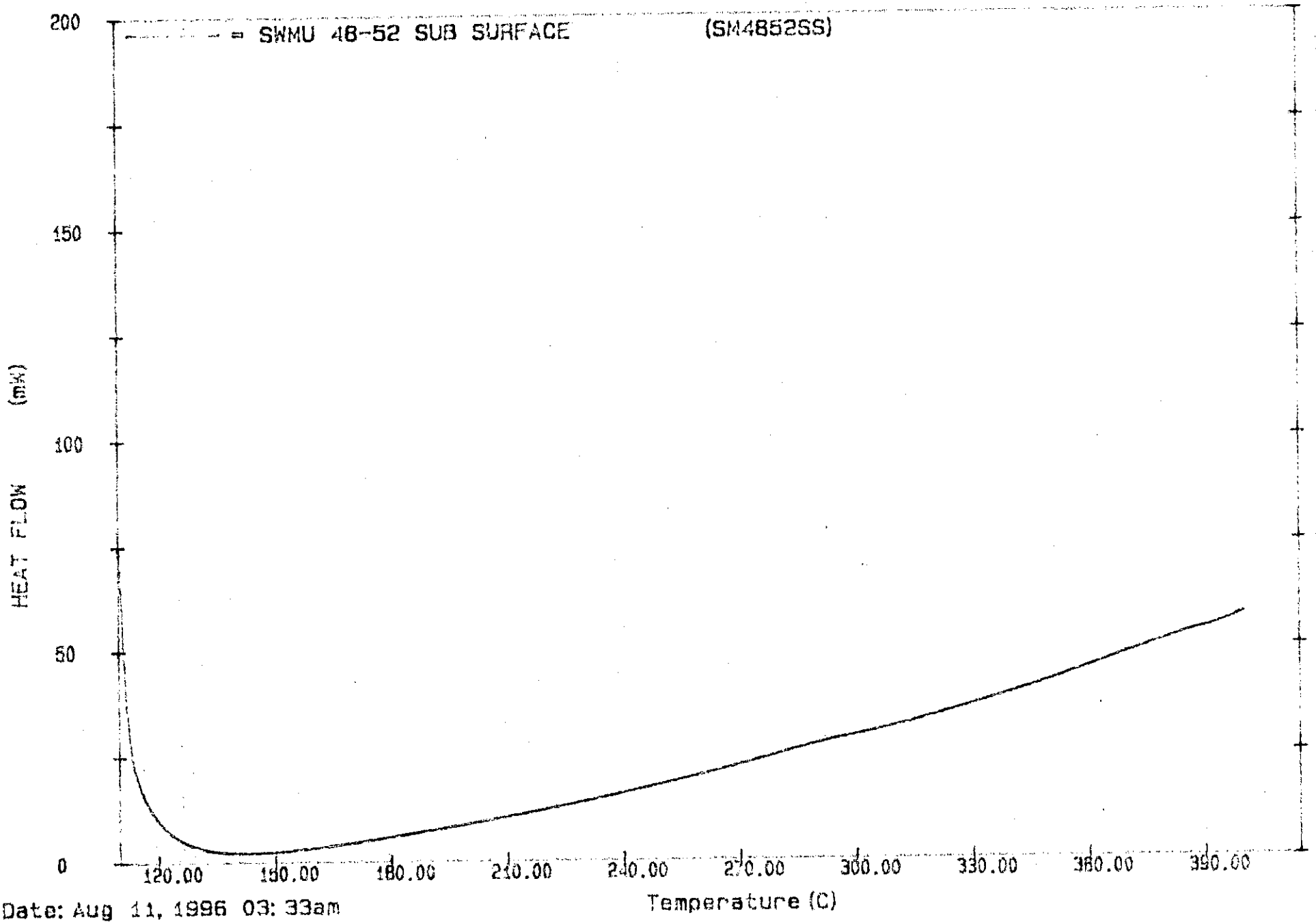
File 4851SS ST 9-16-96

PERKIN-ELMER DSC7



Date: Aug 11, 1996 03:33am
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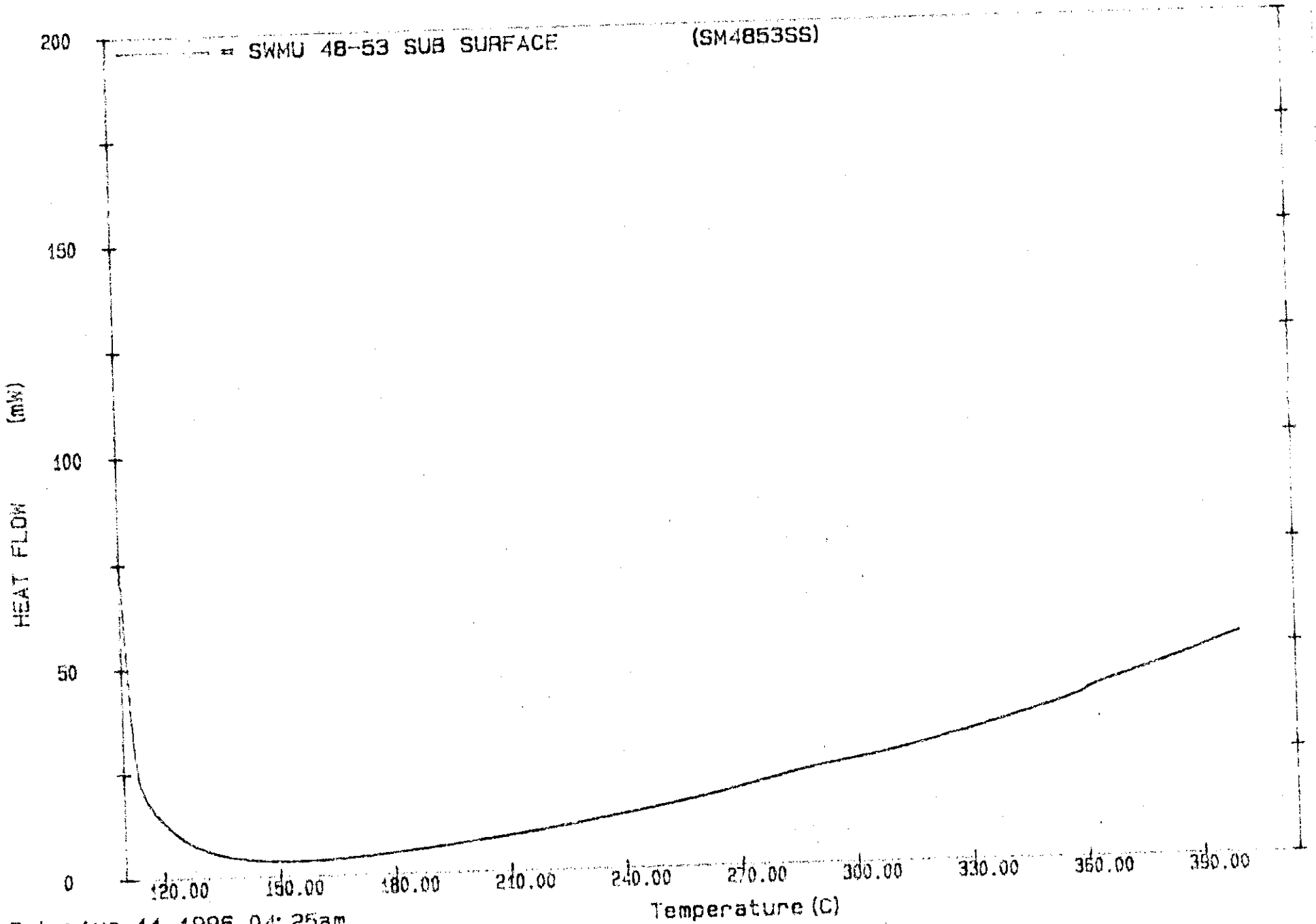
File: SM4852SS ST 9-17-96

PERKIN-ELMER DSC7



Date: Aug 11, 1996 04:25am
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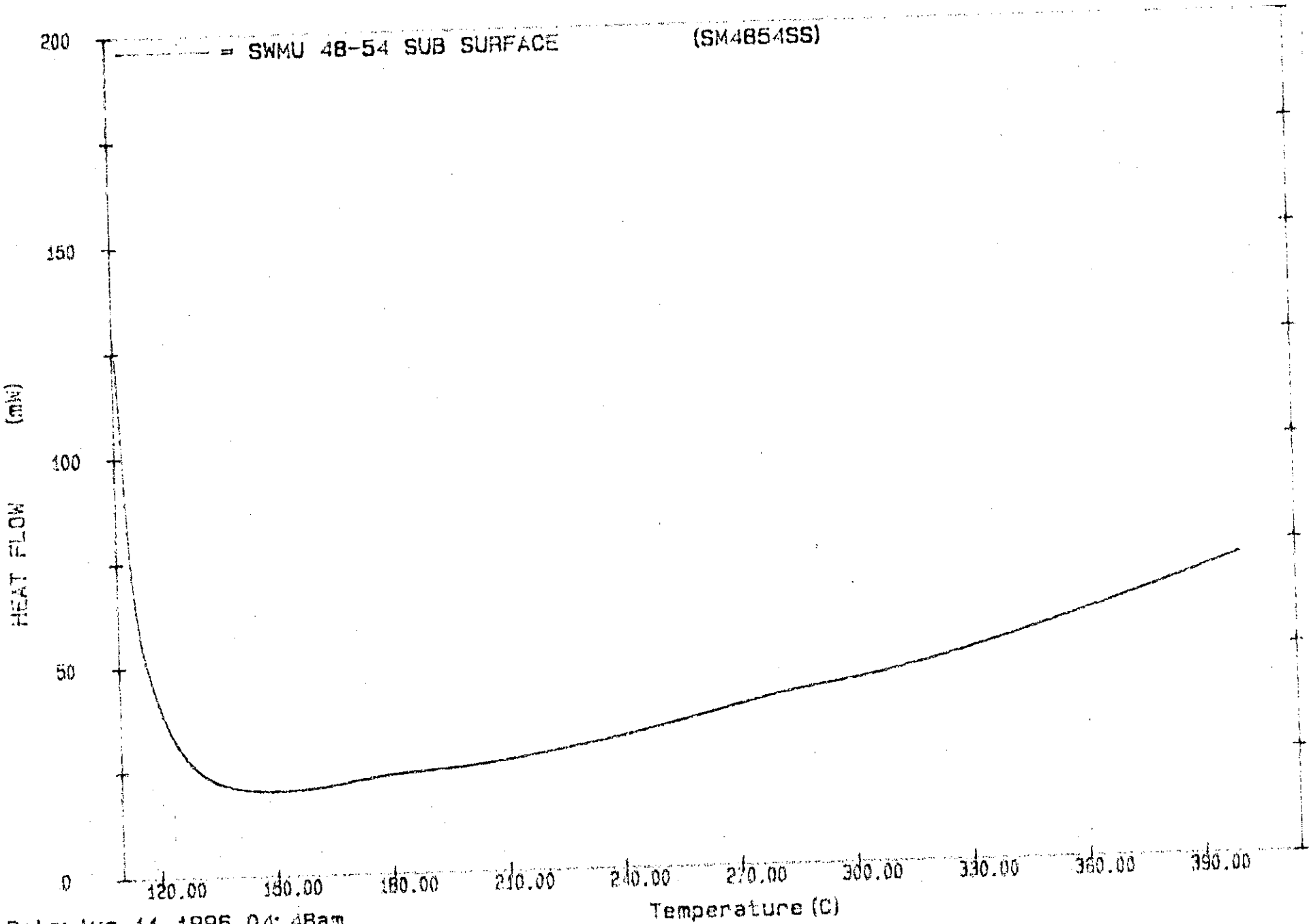
File: SW4853SS ST 9-17-96

PERKIN-ELMER DSC



Date: Aug 11, 1996 04: 48am
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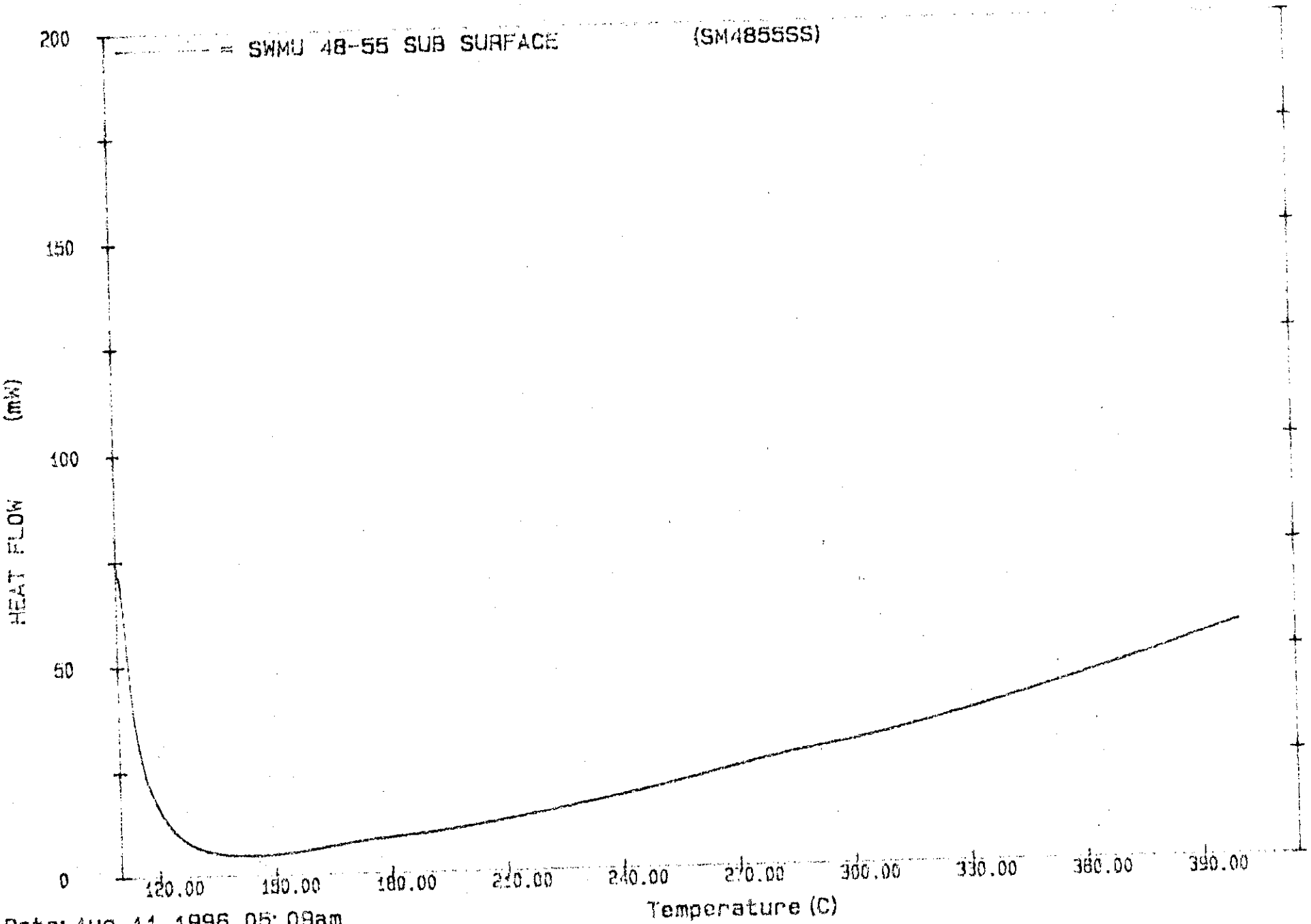
PERKIN-ELMER DSC



Date: Aug 11, 1996 05:09am
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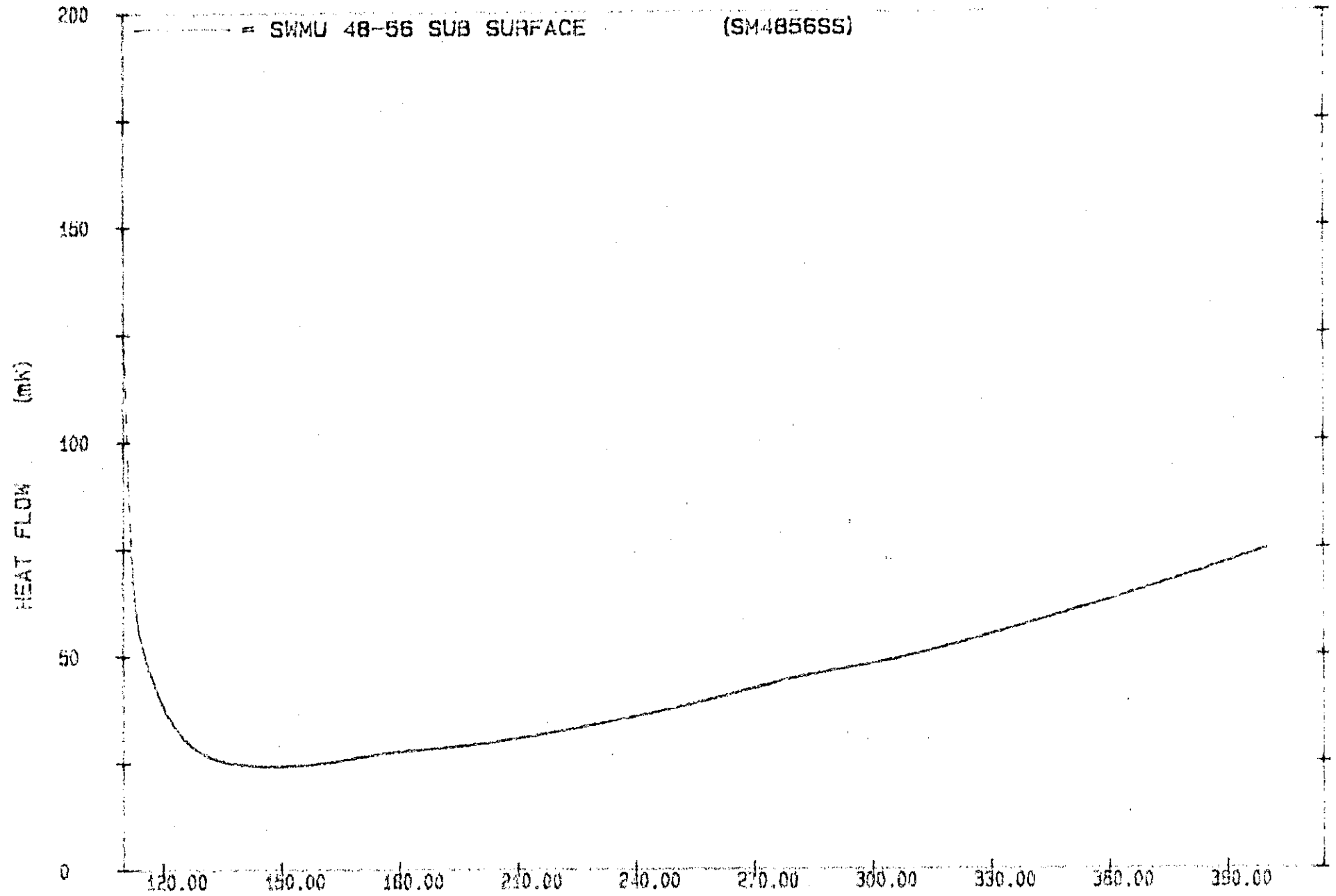
FIL SM4855SS ST 9-11-95

PERKIN-ELMER DSC



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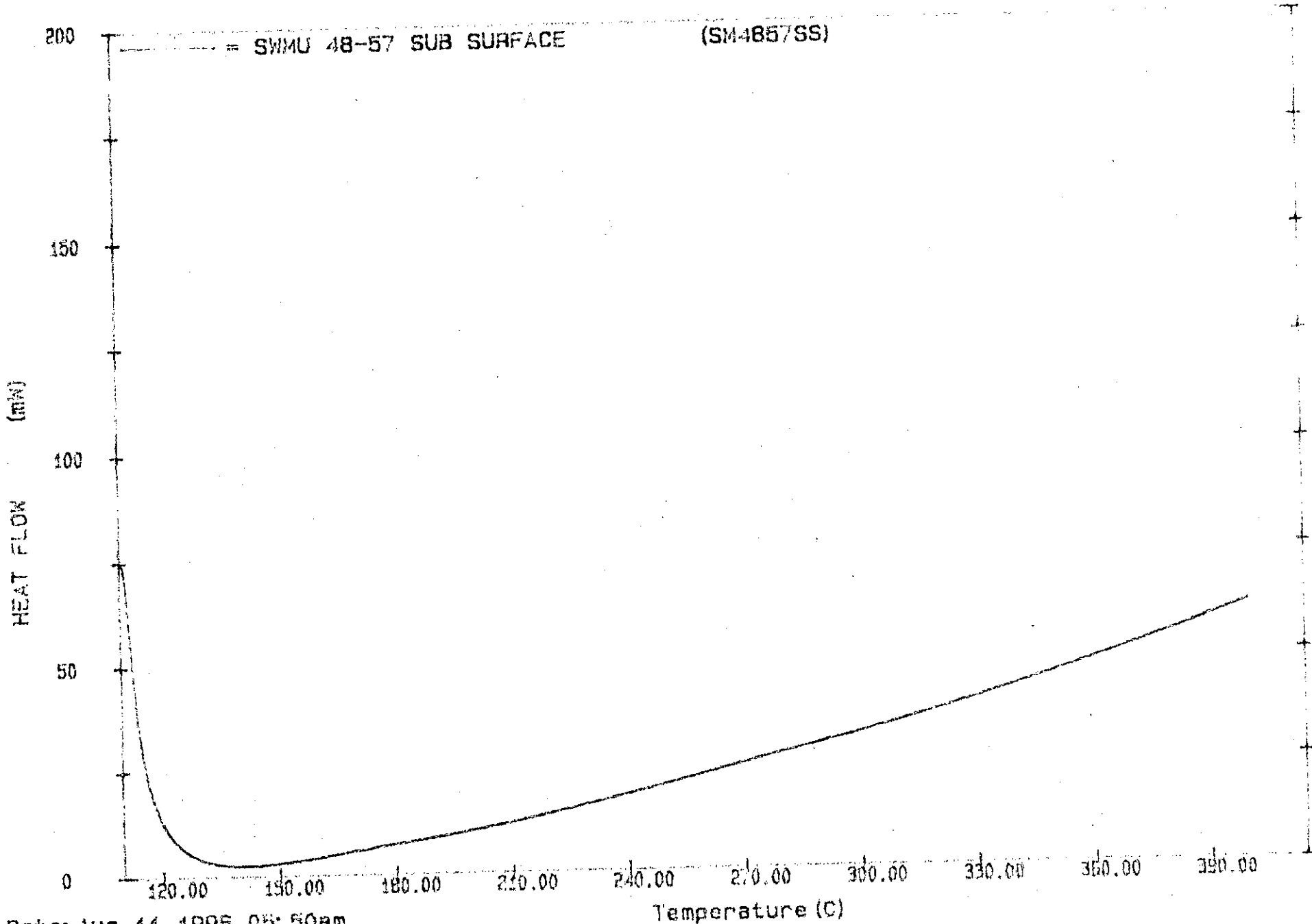
File: SM4856SS ST 9-11-96

PERKIN-ELMER DSC



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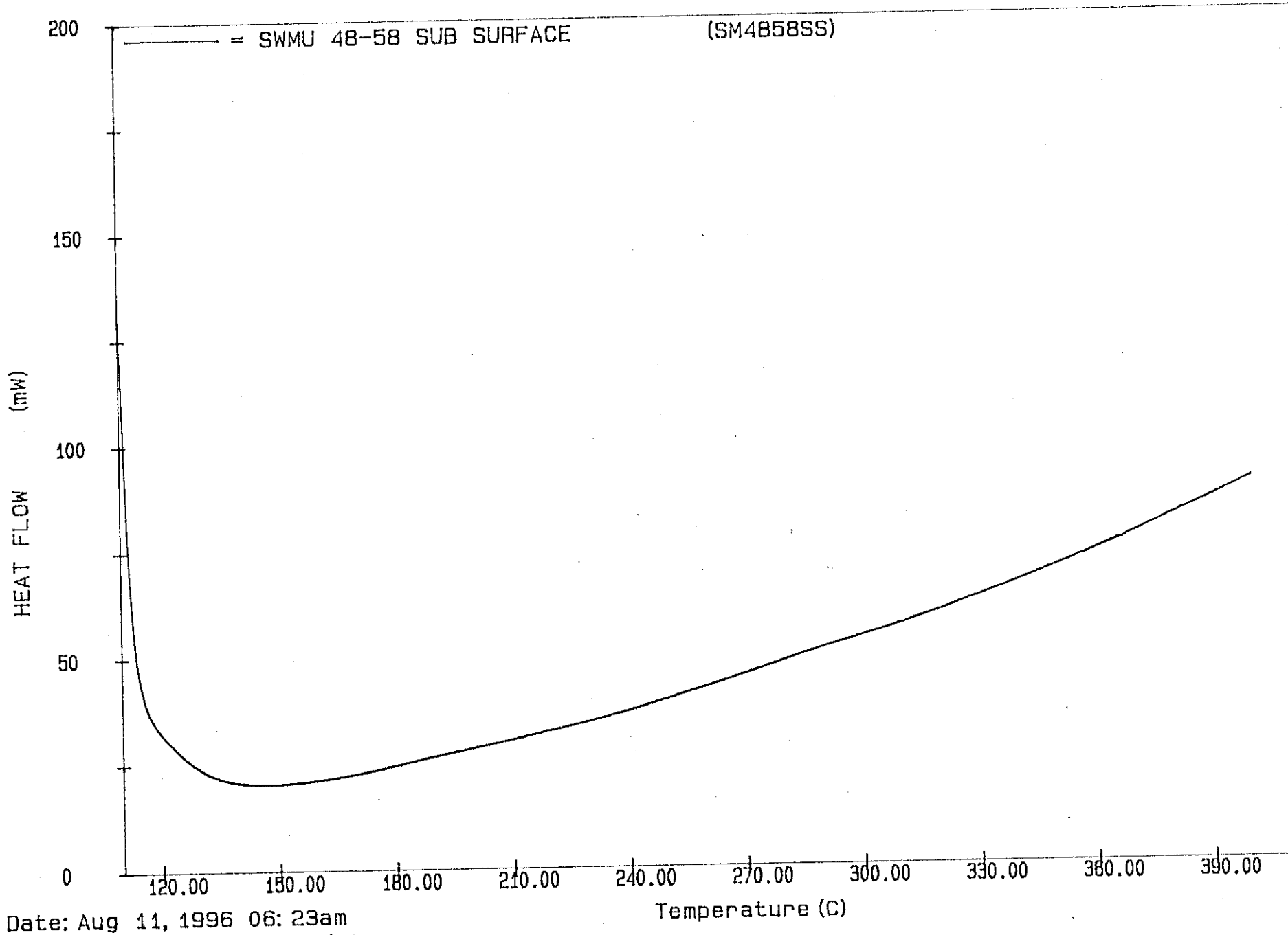
PERKIN-ELMER DSC 7



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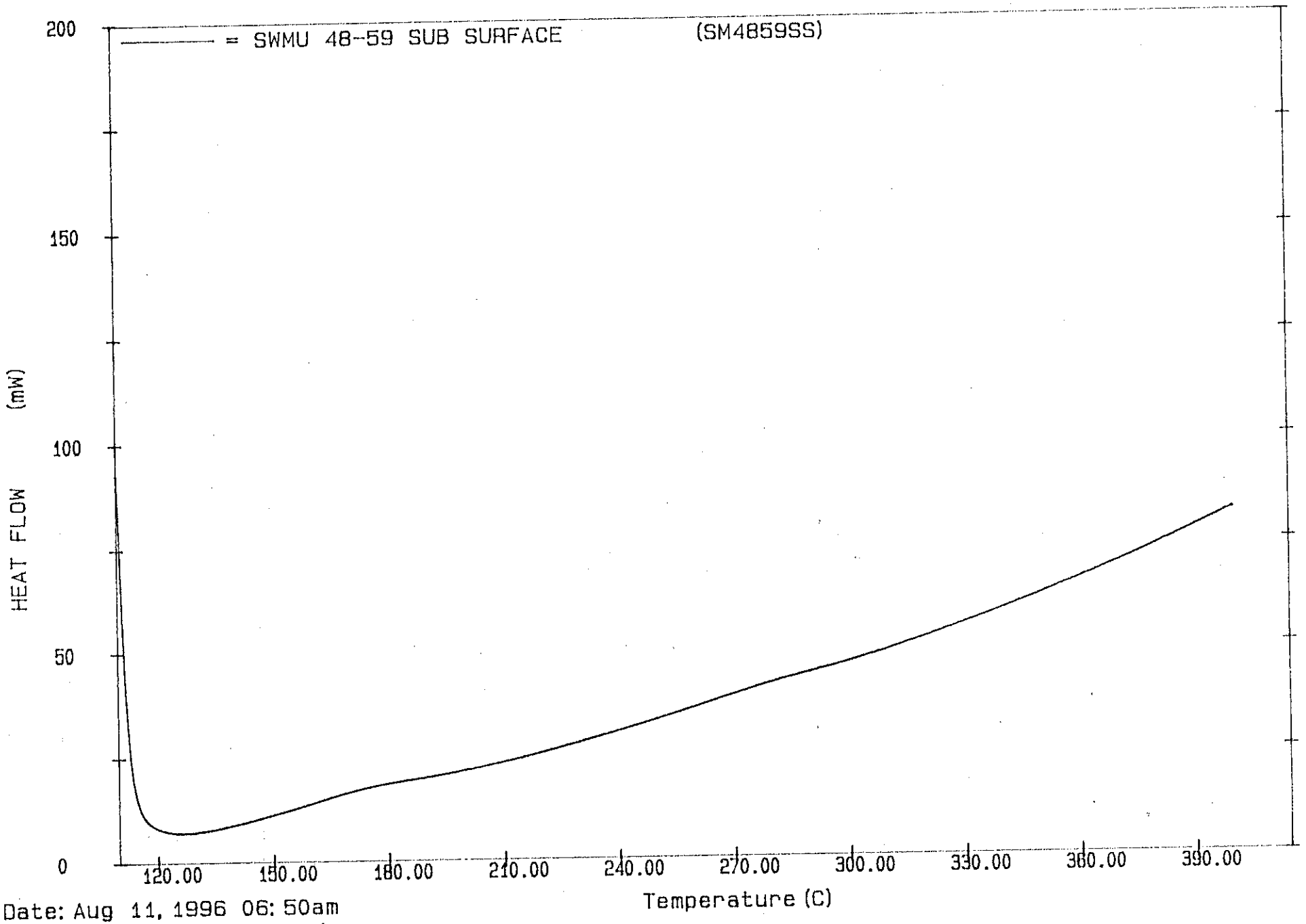
1: SM4858SS ST 9-17-96

PERKIN-ELMER DSC7



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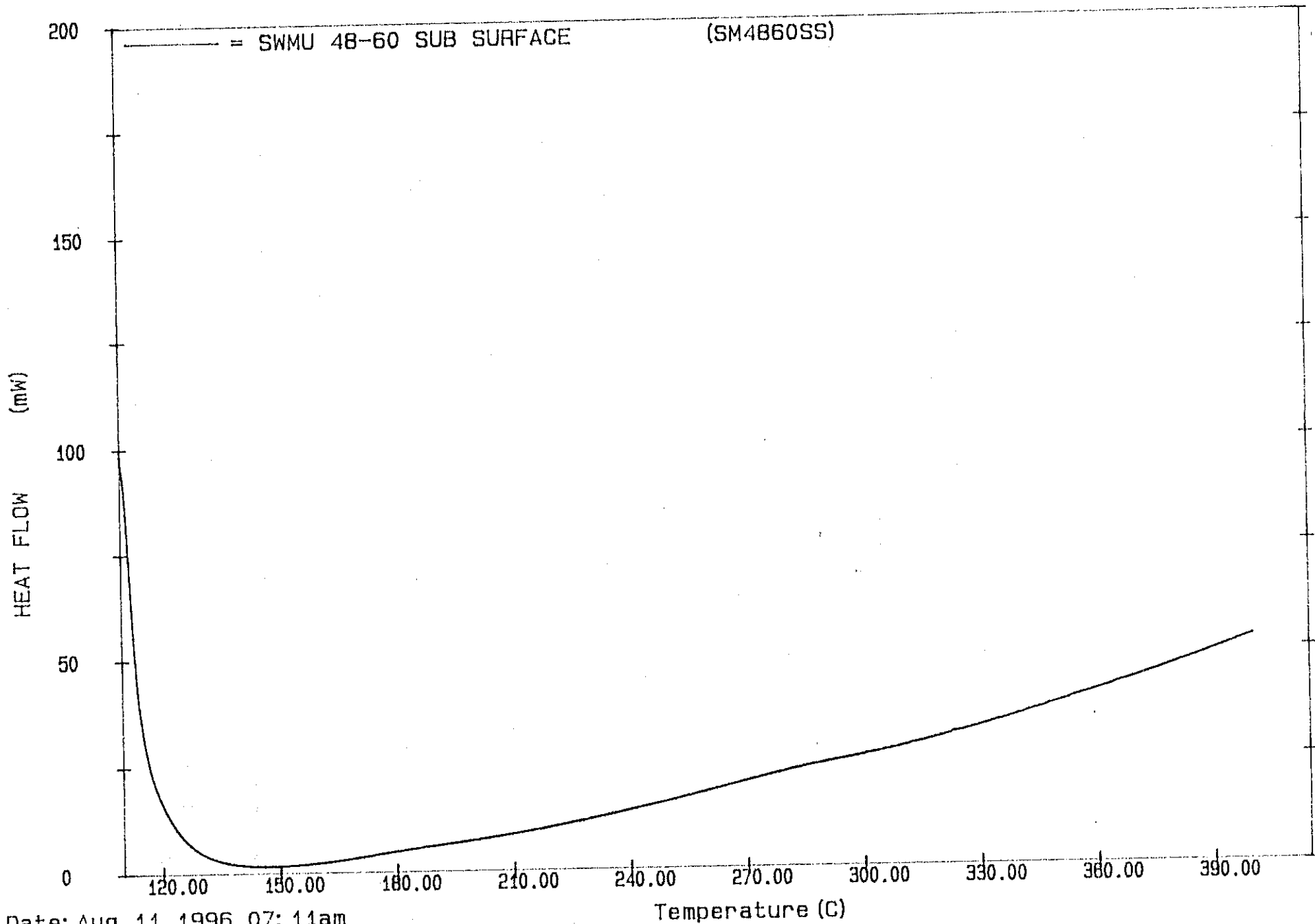
PERKIN-ELMER DSC7



Date: Aug 11, 1996 07: 11am
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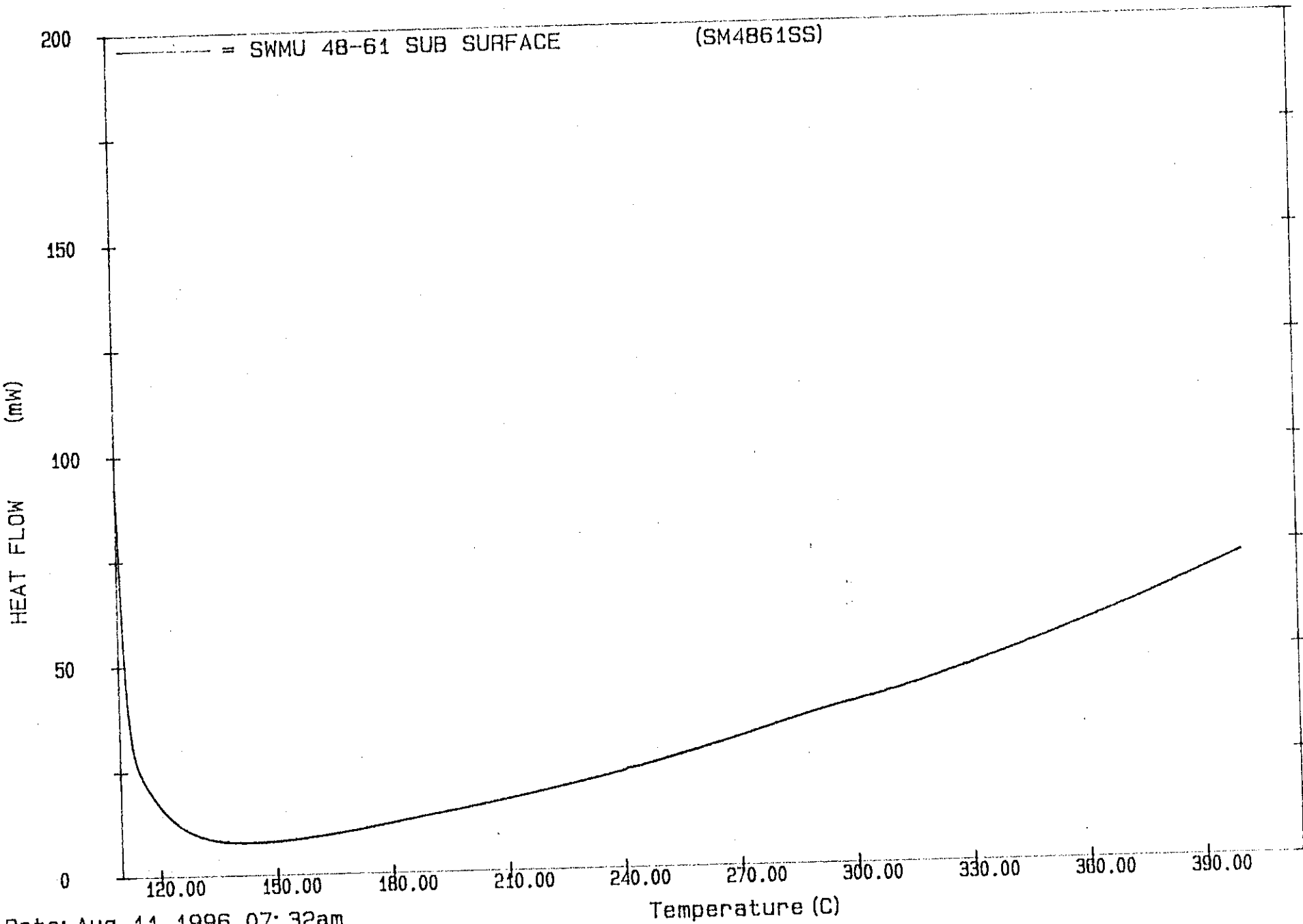

Date: Aug 11, 1996 07: 32am
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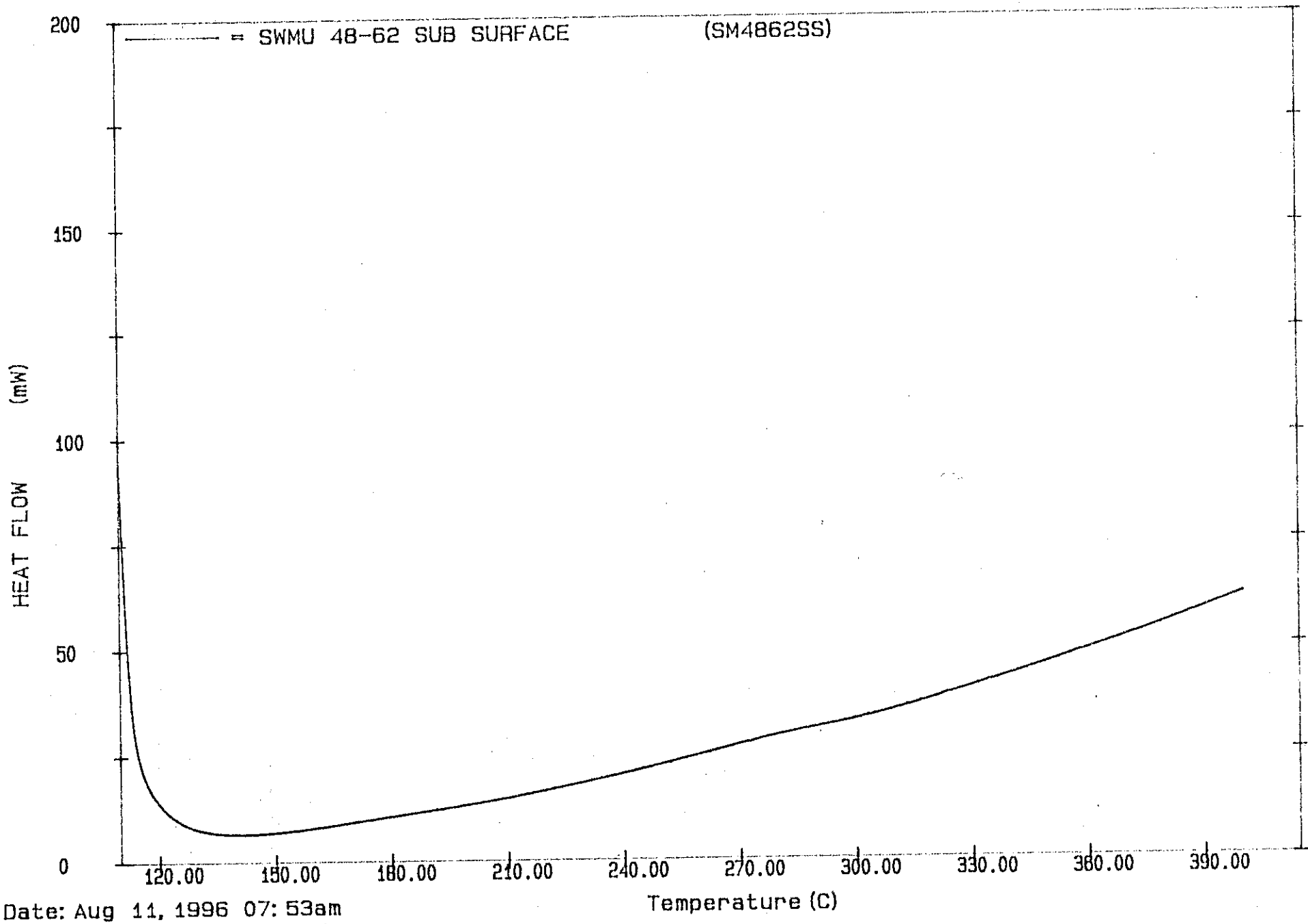
PERKIN-ELMER DSC7



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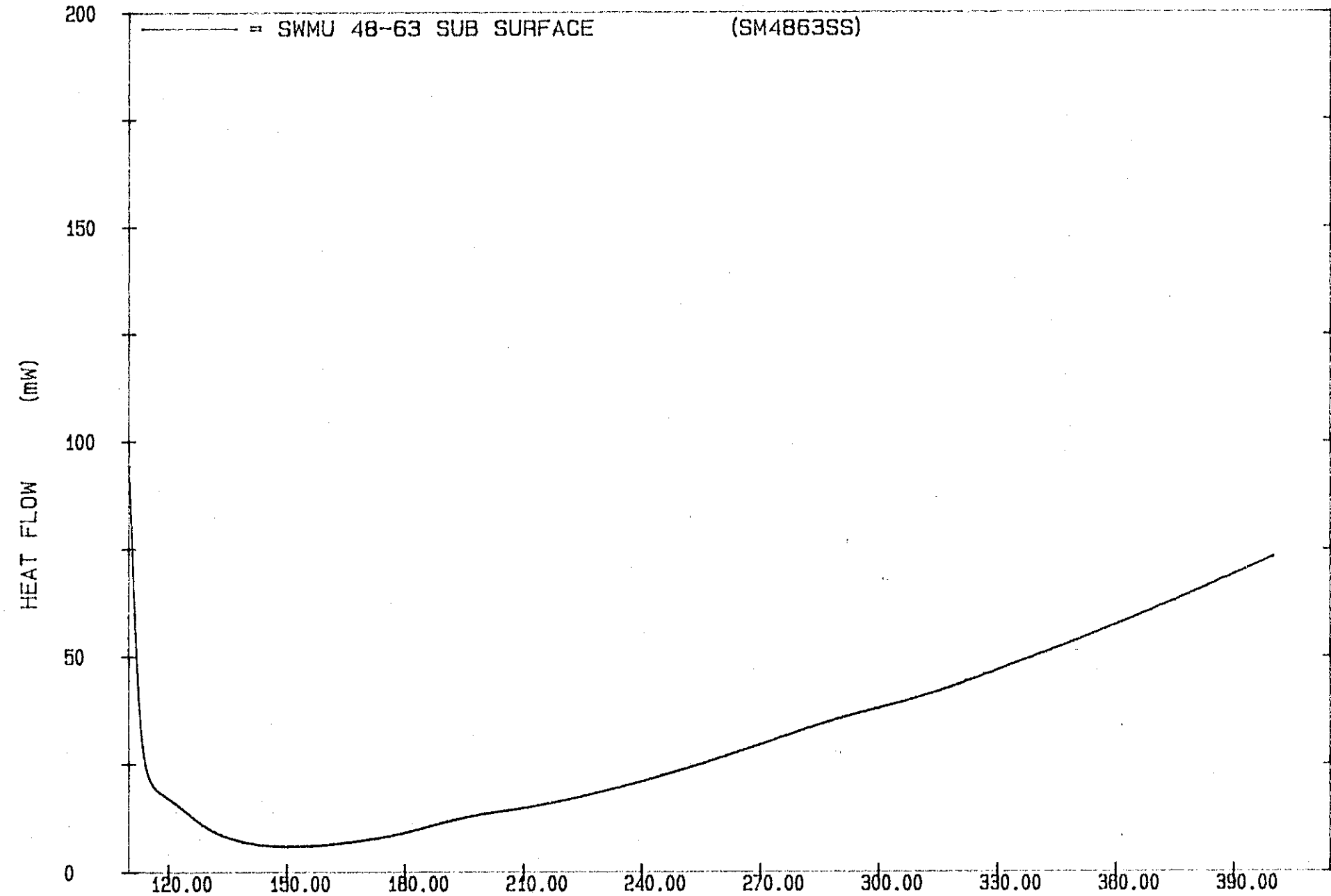
PE[illegible]TN-ELMER DSC7



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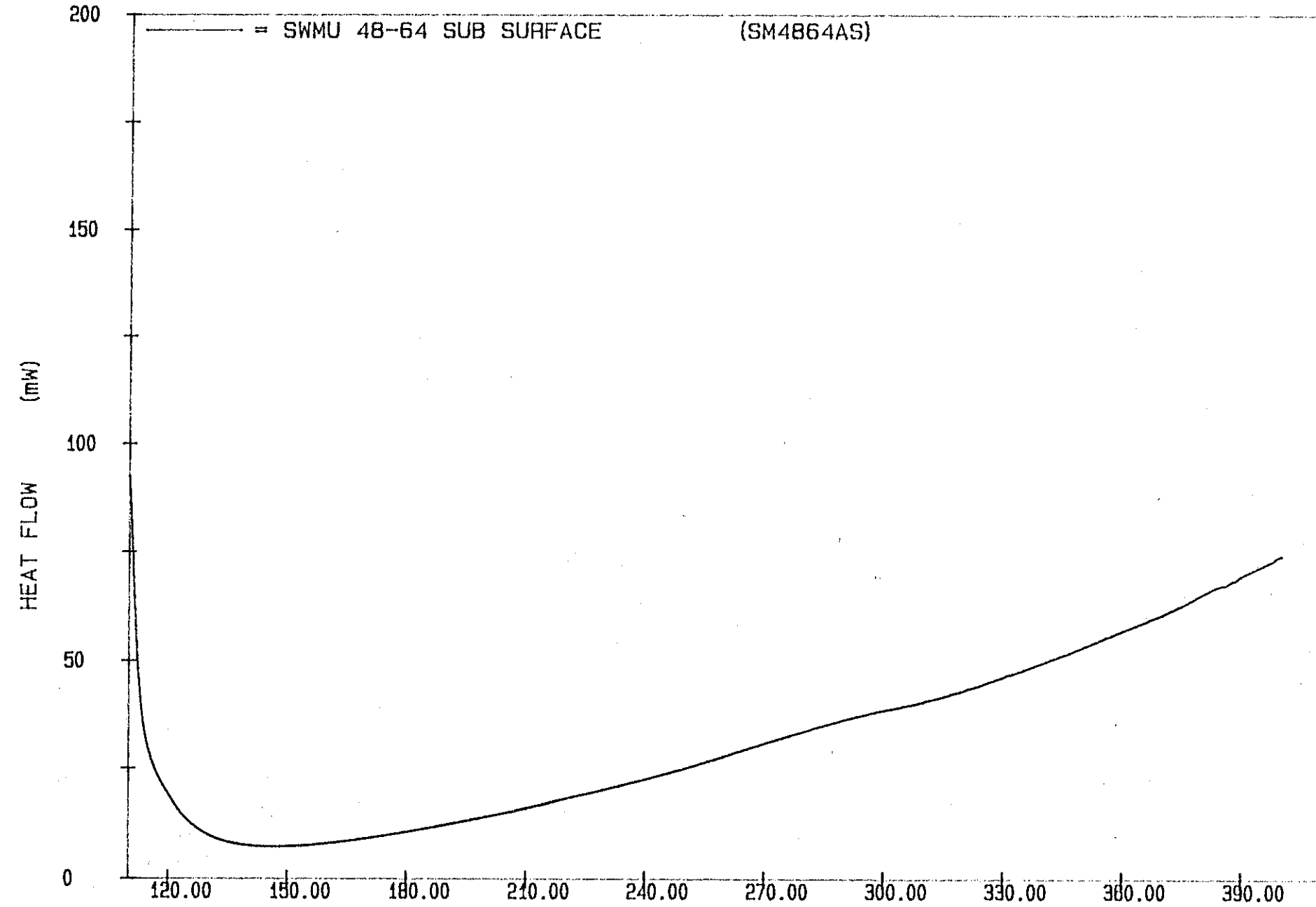

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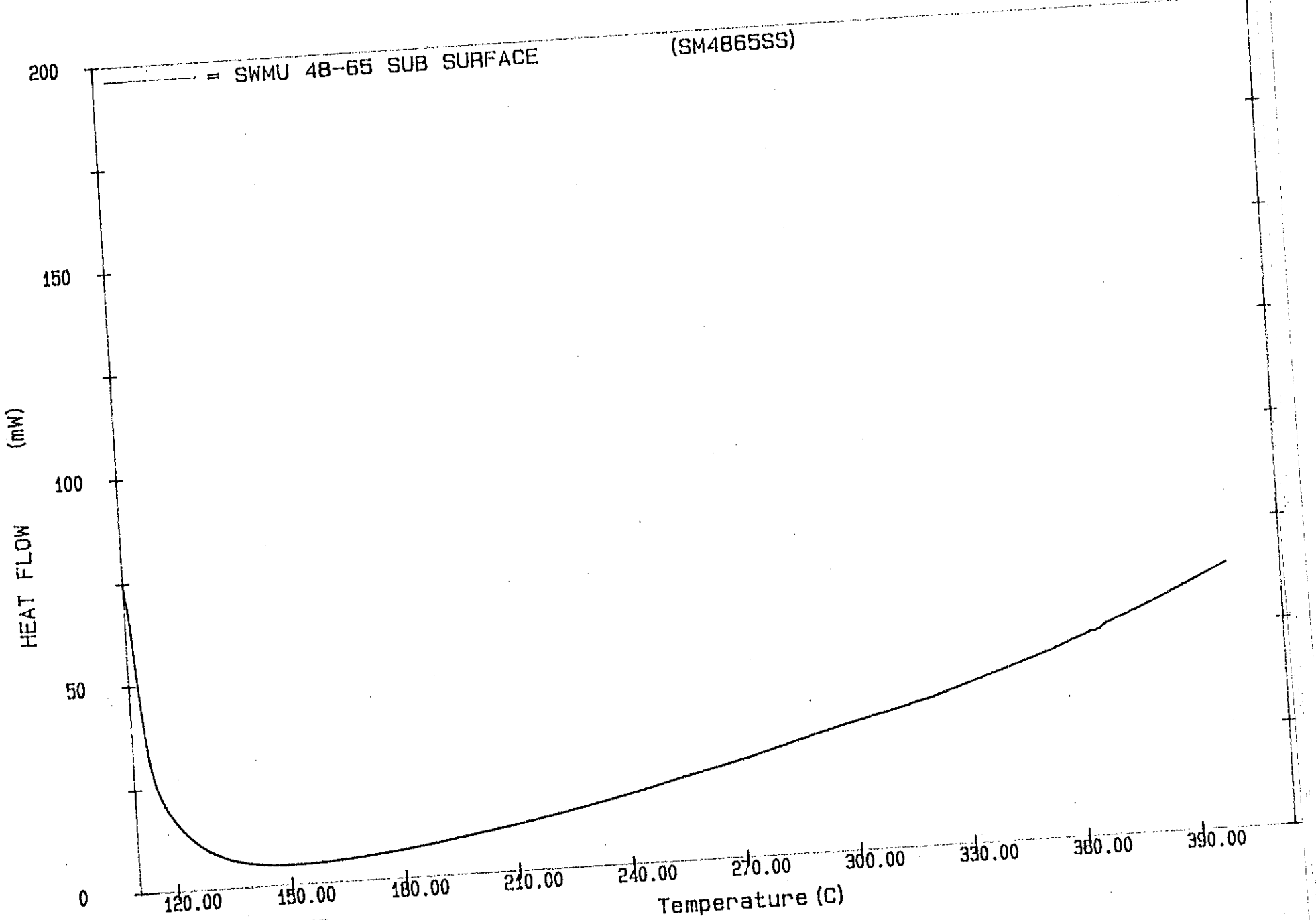
PERKIN-ELMER DSC7



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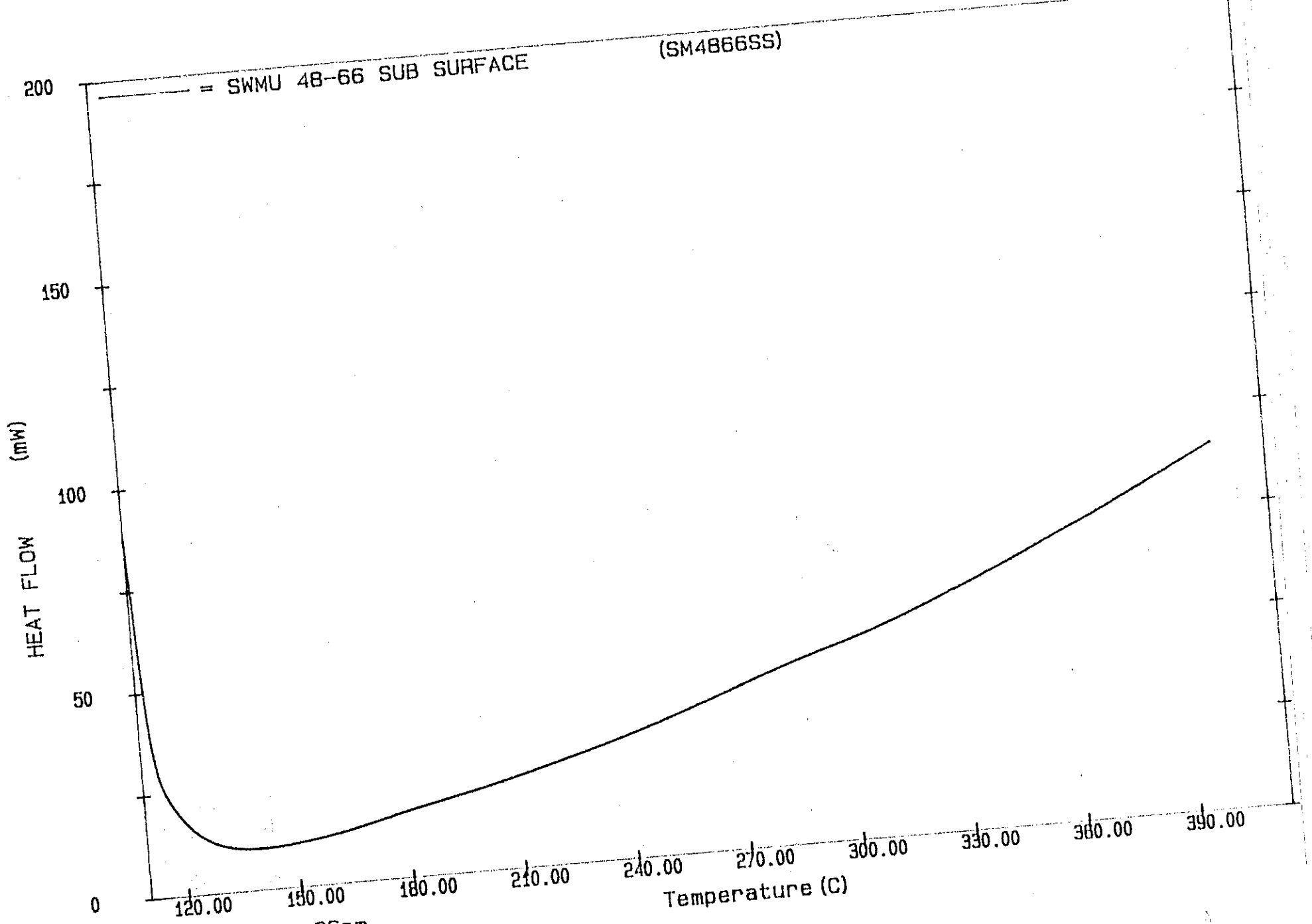
PERKIN-ELMER DSC7



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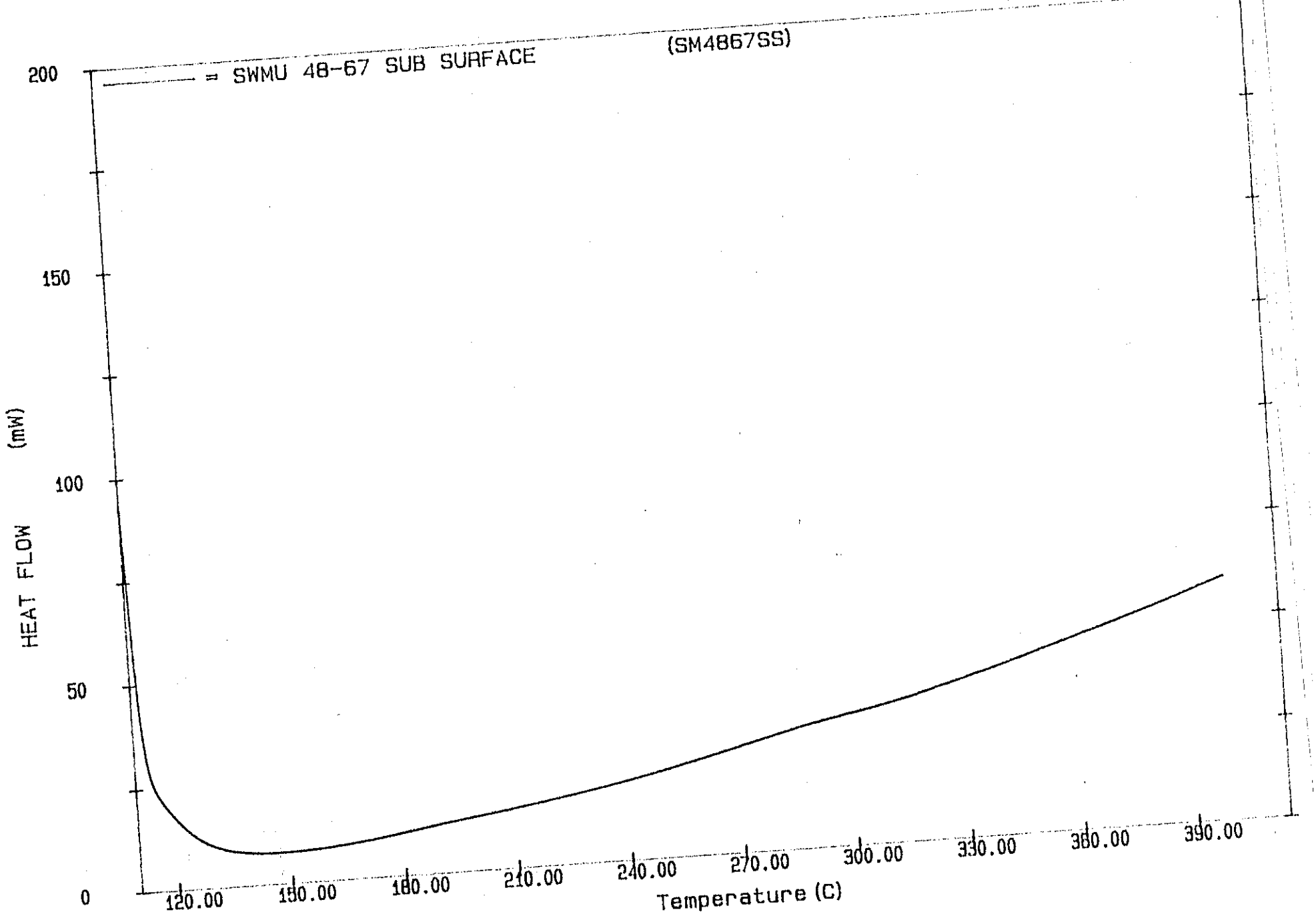
PE[illegible]TN-ELMER DSC7



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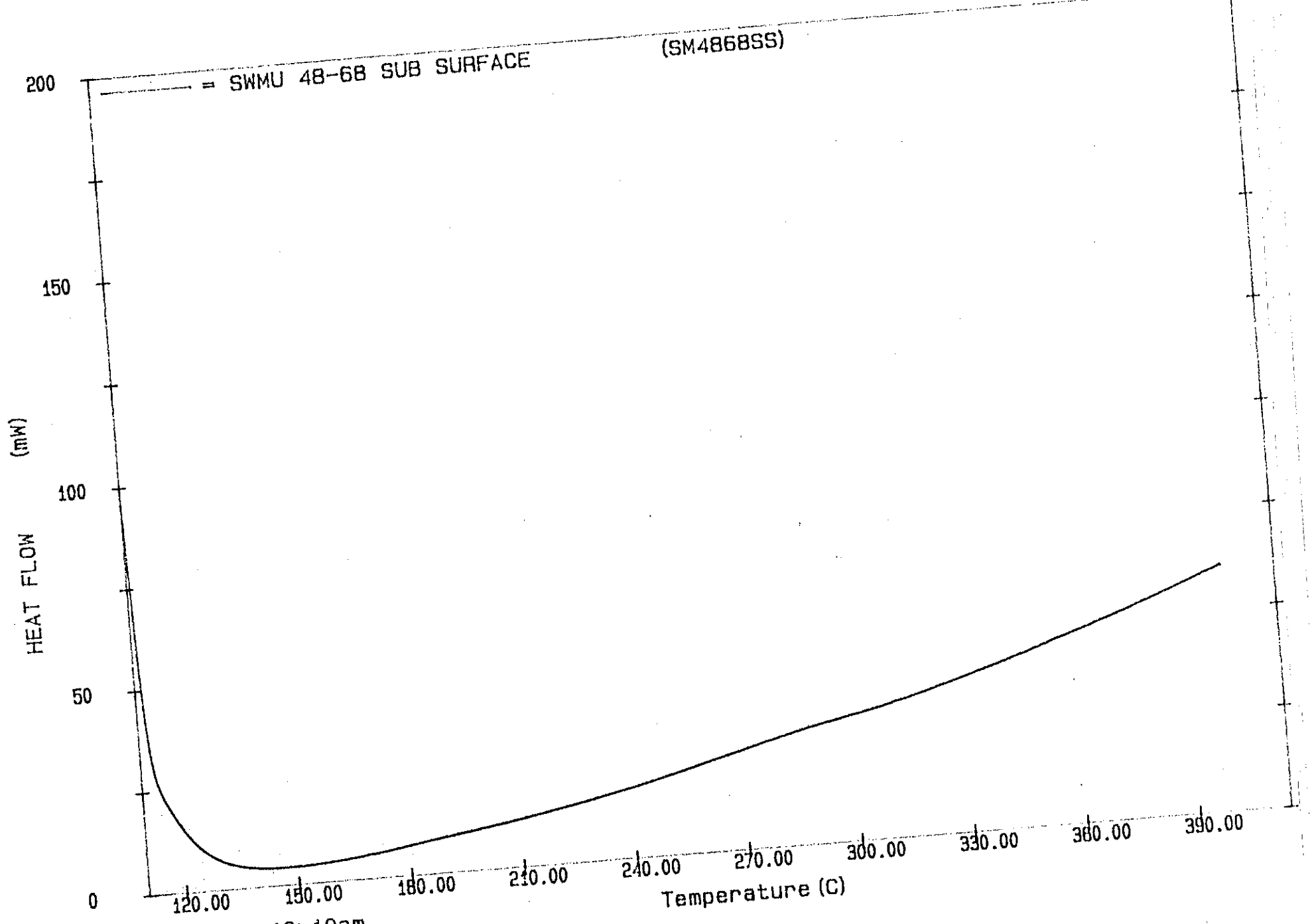
PE IN-ELMER DSC7



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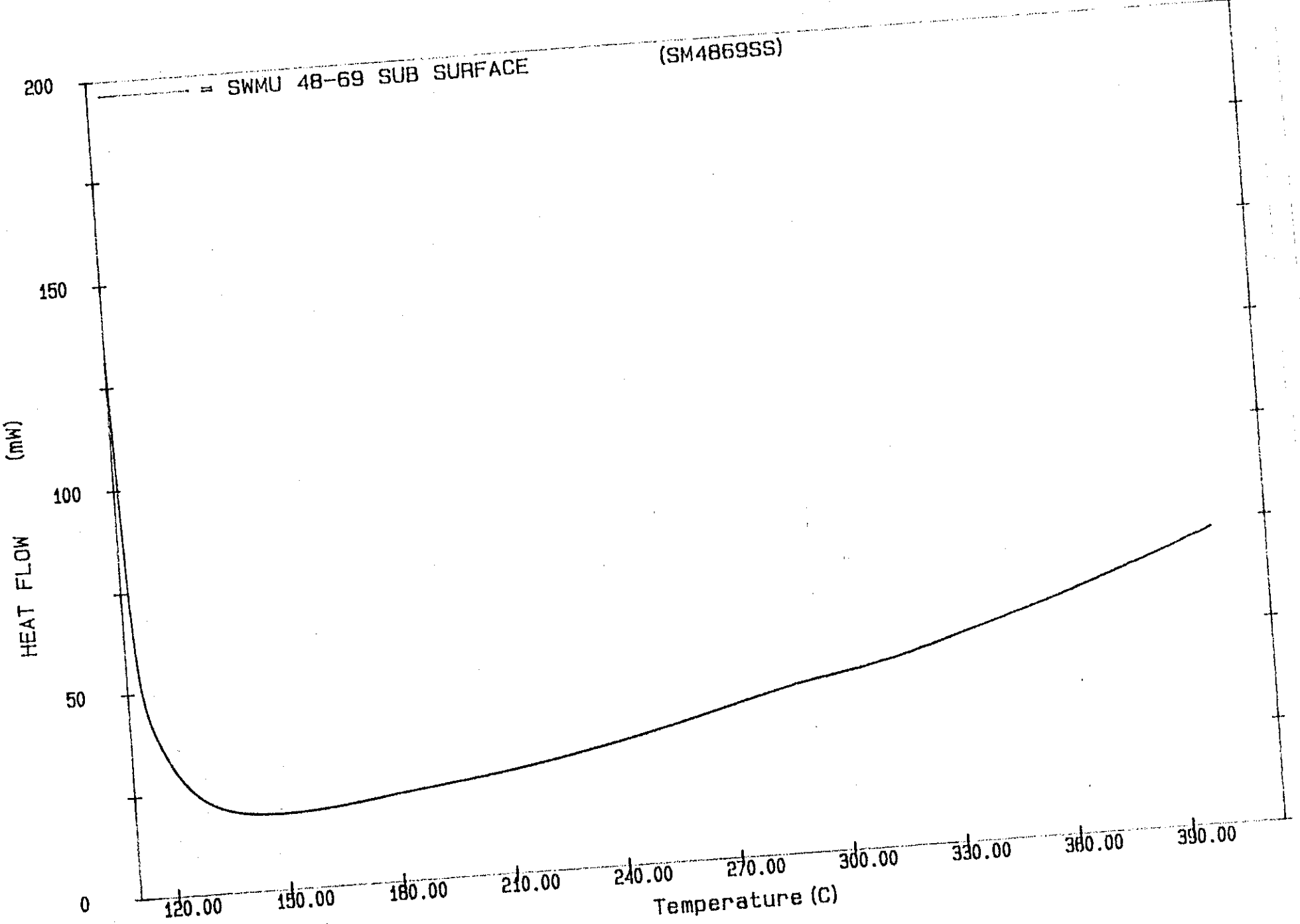
PERKIN-ELMER DSC7



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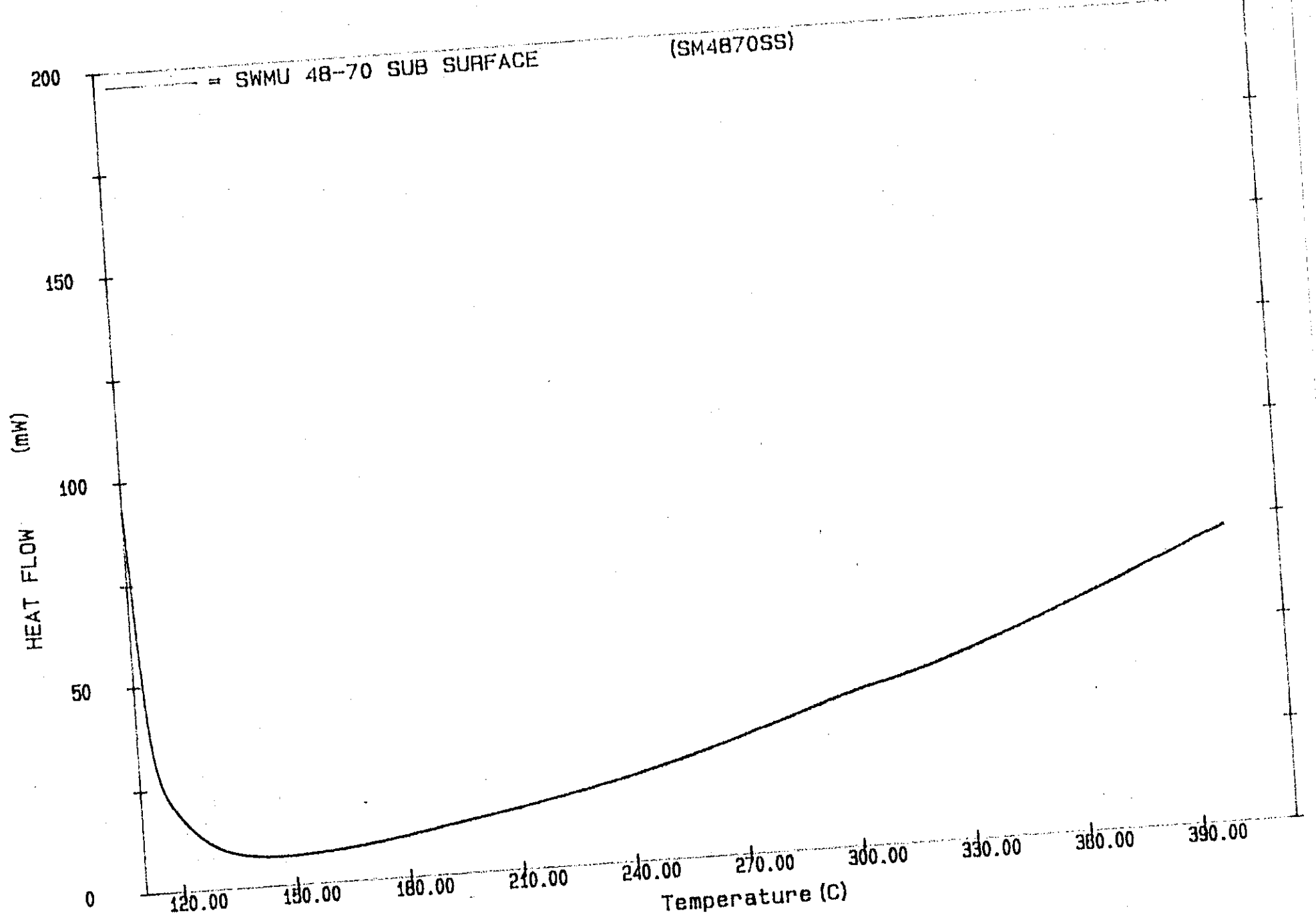
PE IN-ELMER DSC7



Date: Sep 18, 1996 07: 45am
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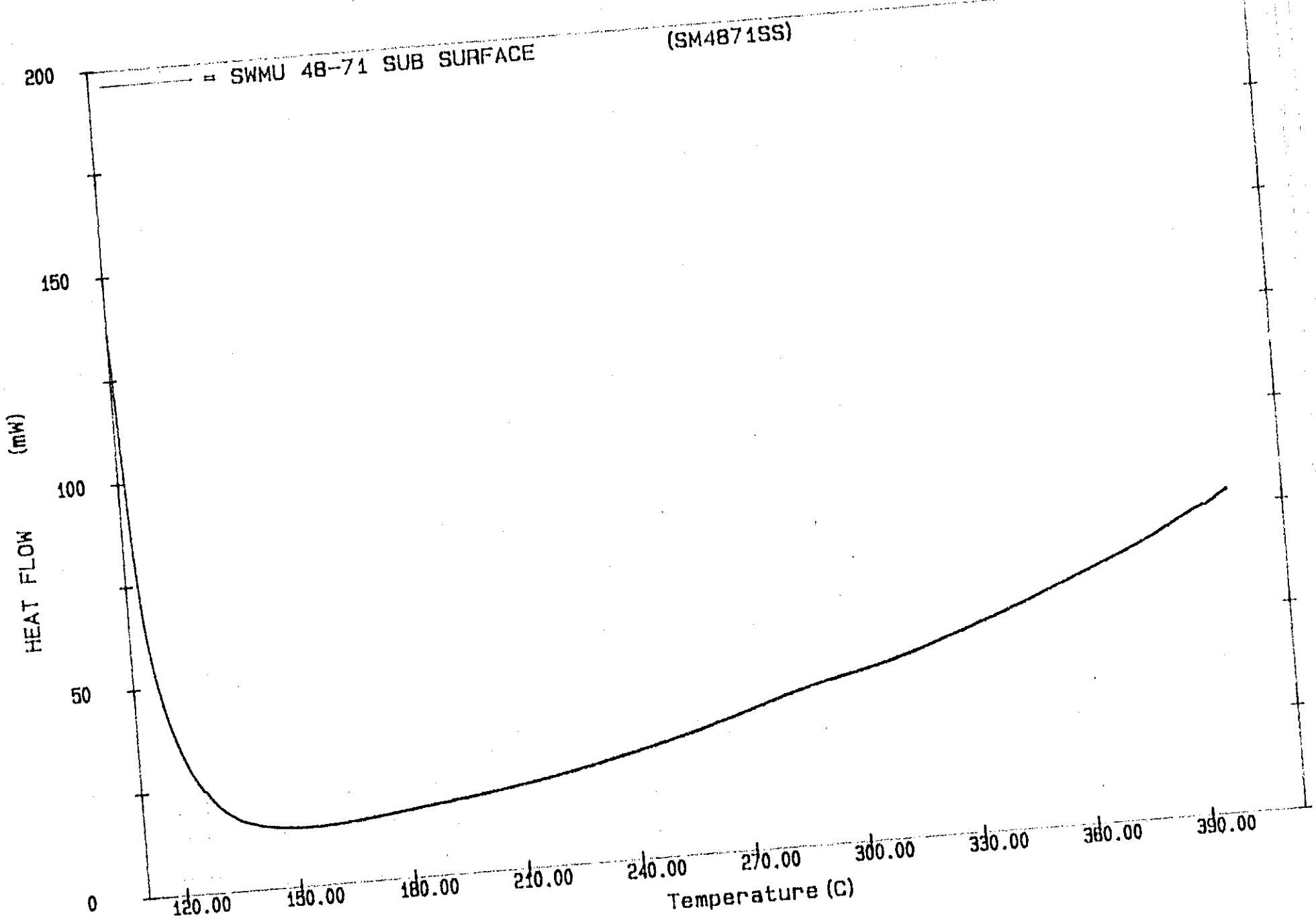
File SM4870SS ST 9-18-96

PERKIN-ELMER DSC7



Date: Sep 18, 1996 08:07am
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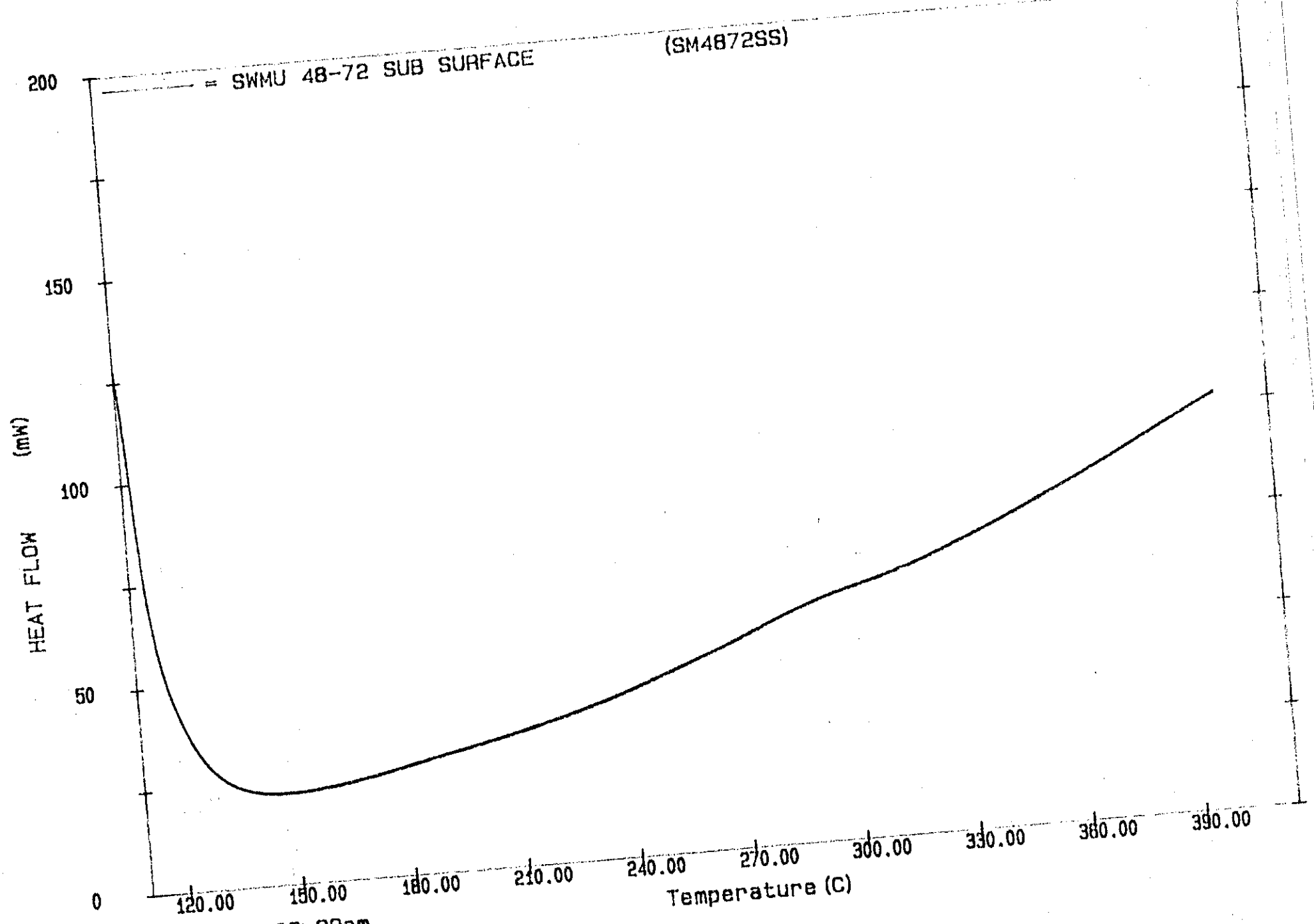

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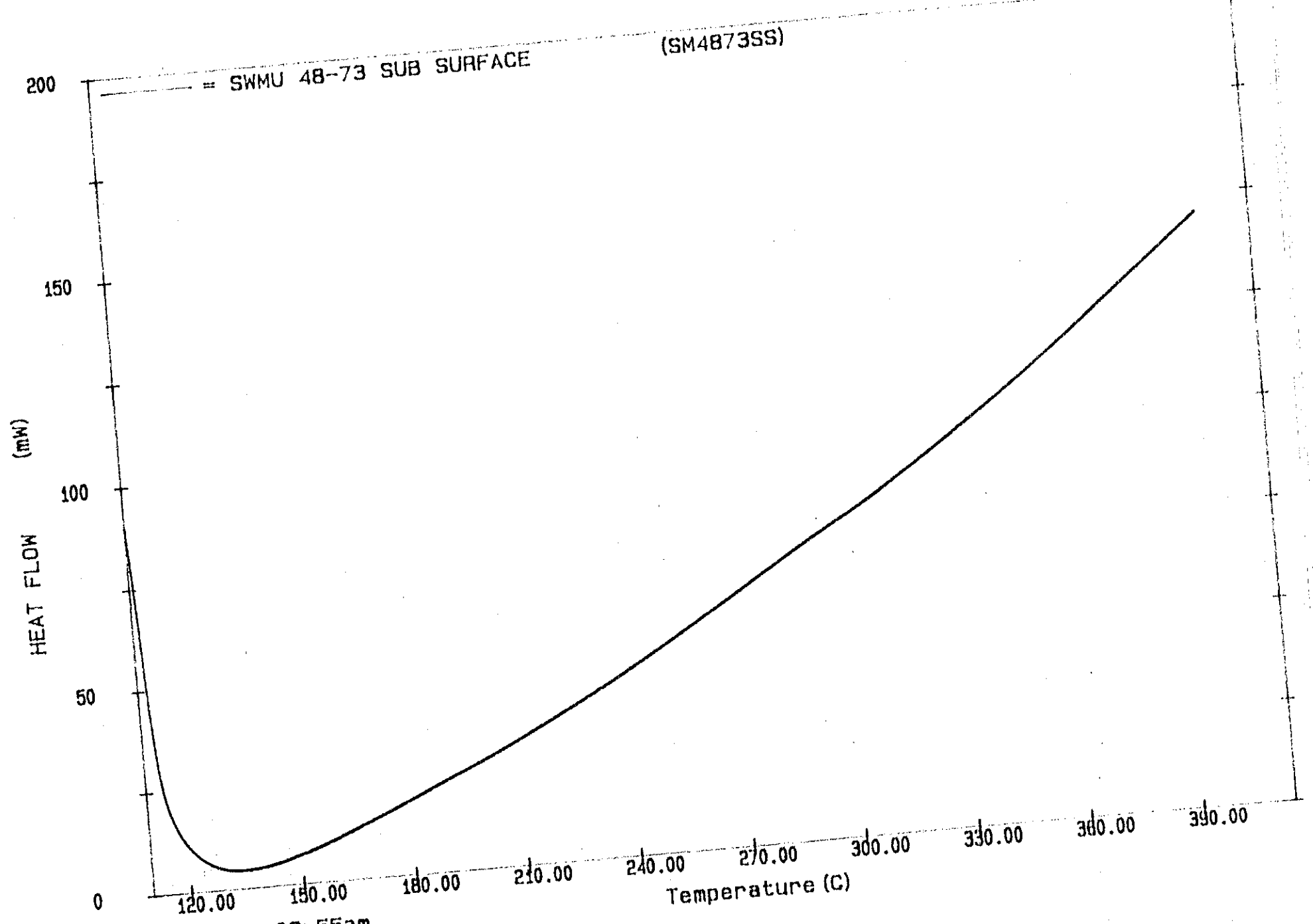
PERKIN-ELMER DSC7



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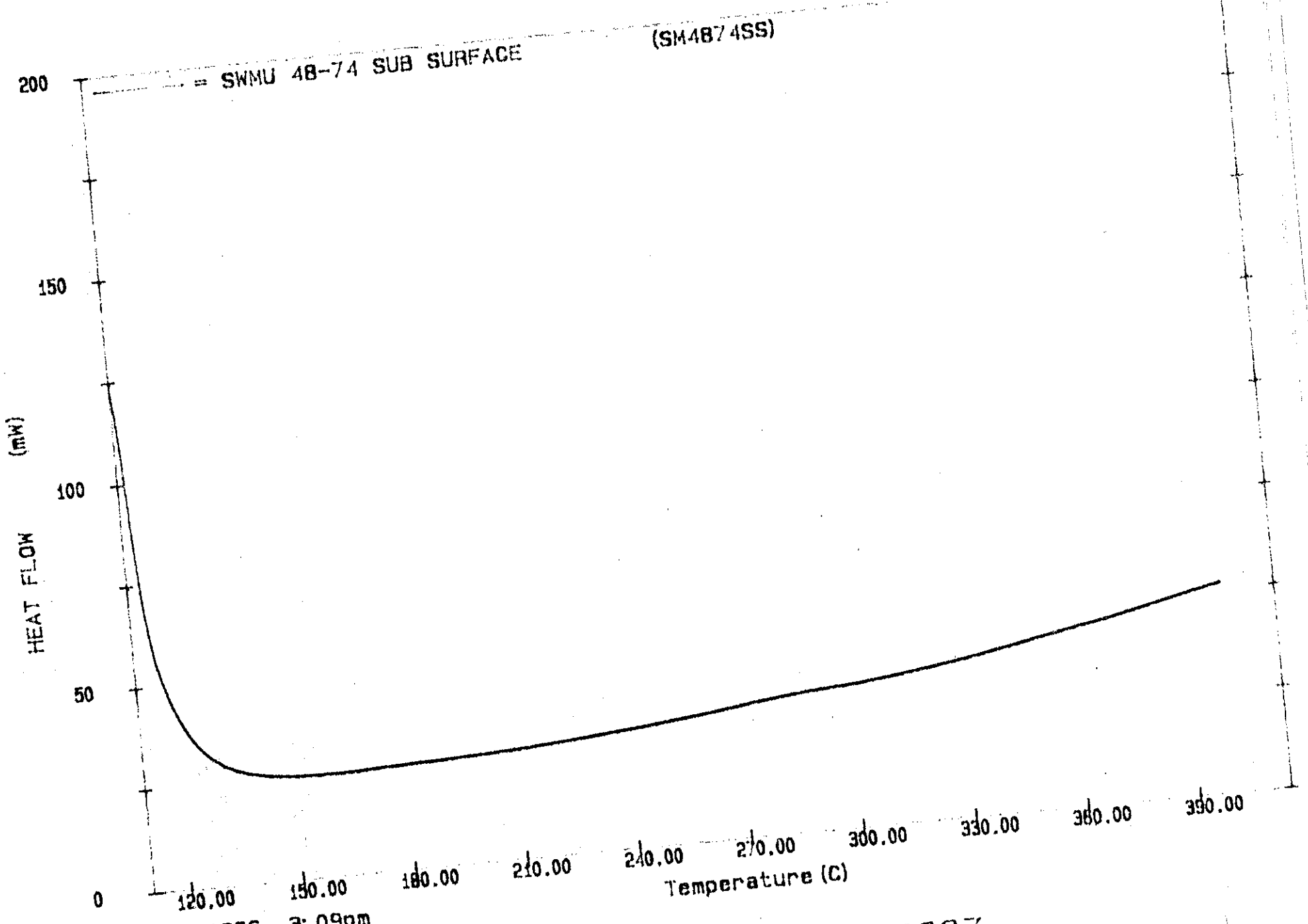
PE[illegible]IN-ELMER DSC7



Date: Sep 19, 1996 3:09pm
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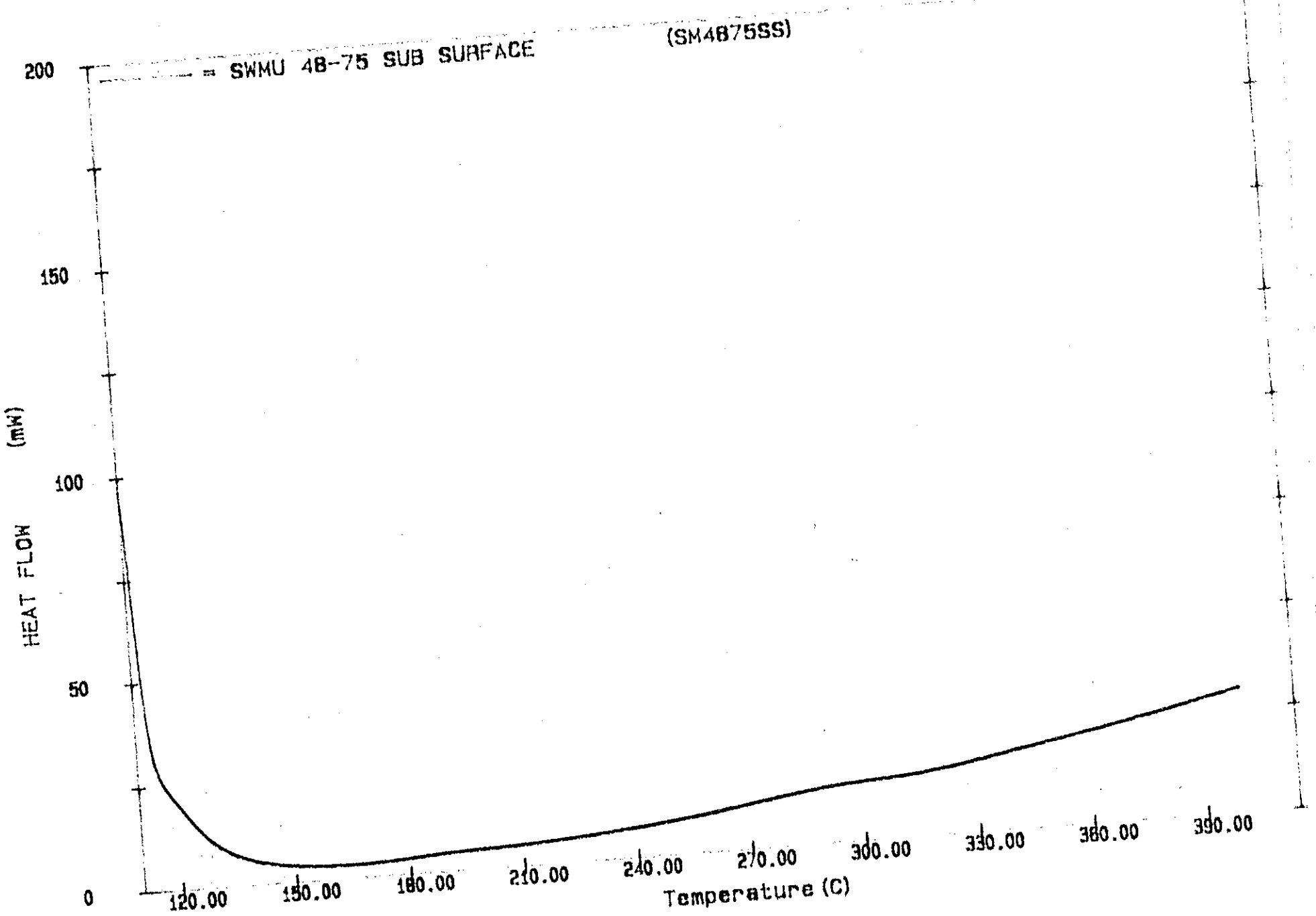
File: SM4874SS ST 9-19-96

PERKIN-ELMER DSC7



Date: Sep 19, 1996 3: 38pm
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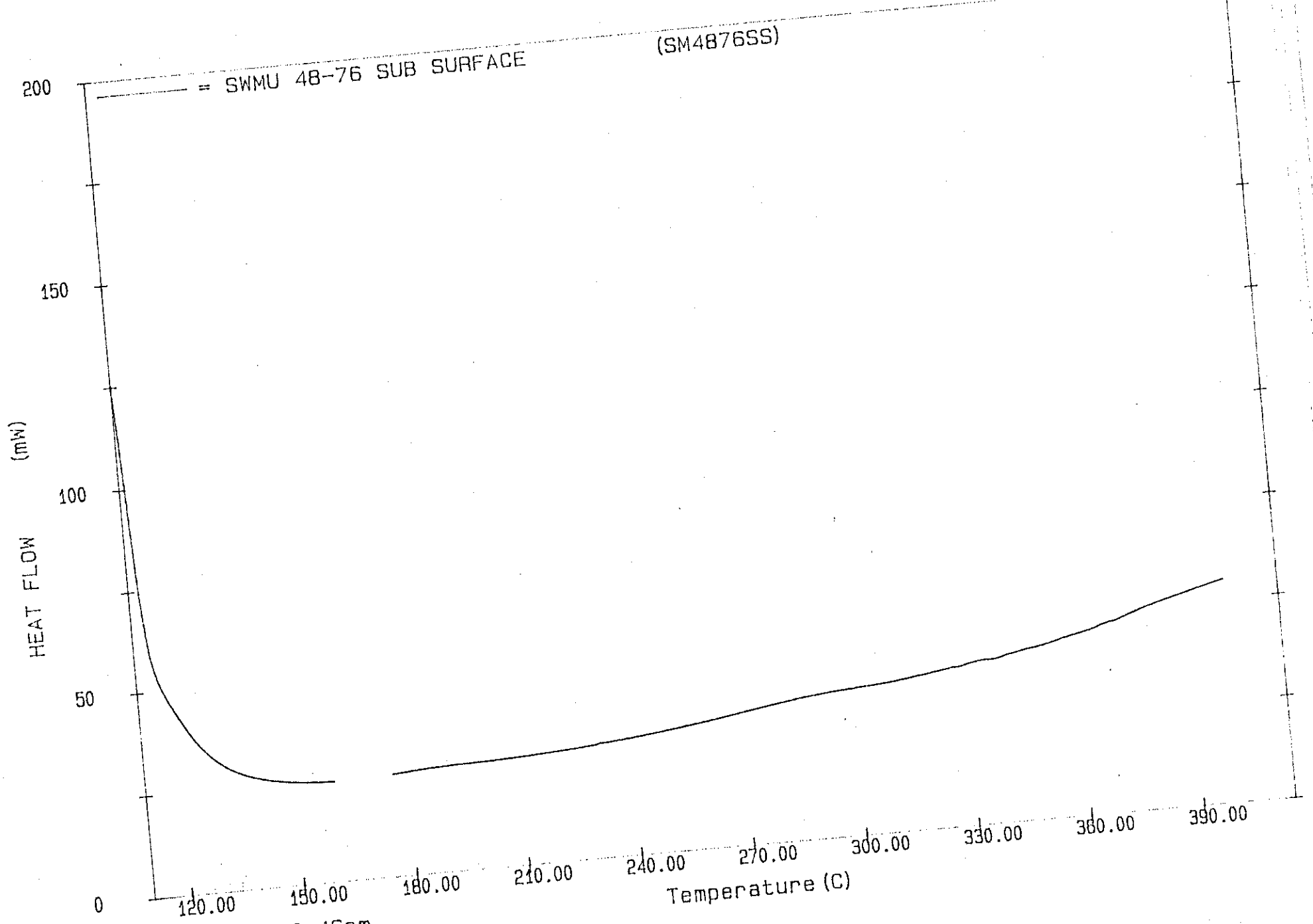
PERKIN-ELMER DSC7



Date: Sep 20, 1996 08: 46am
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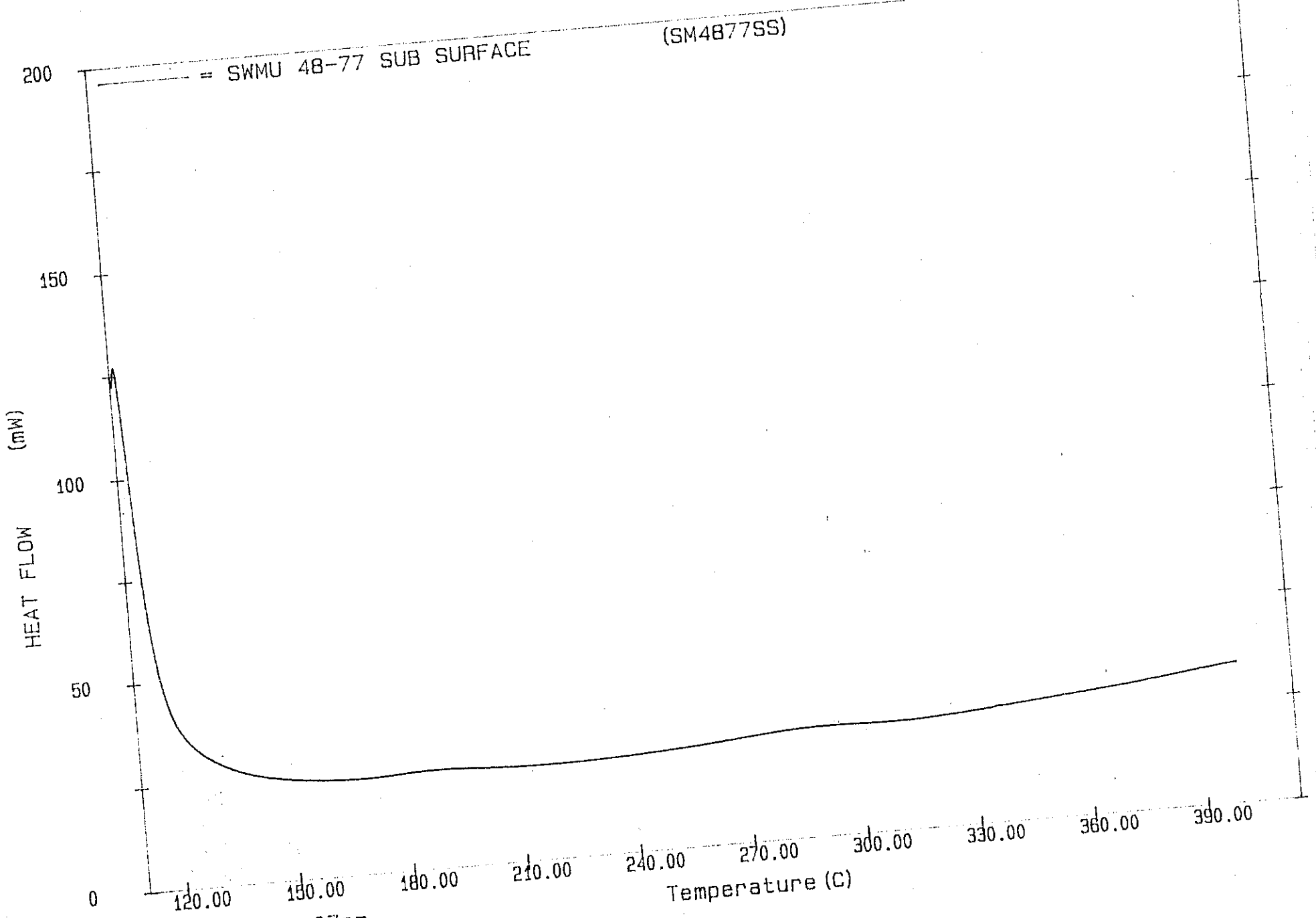
Sample Wt: 0.000 mg Path: C: \PE\
File ;M4876SS ST 9-20-96

PERKIN-ELMER DSC7



Date: Sep 20, 1996 09:07am
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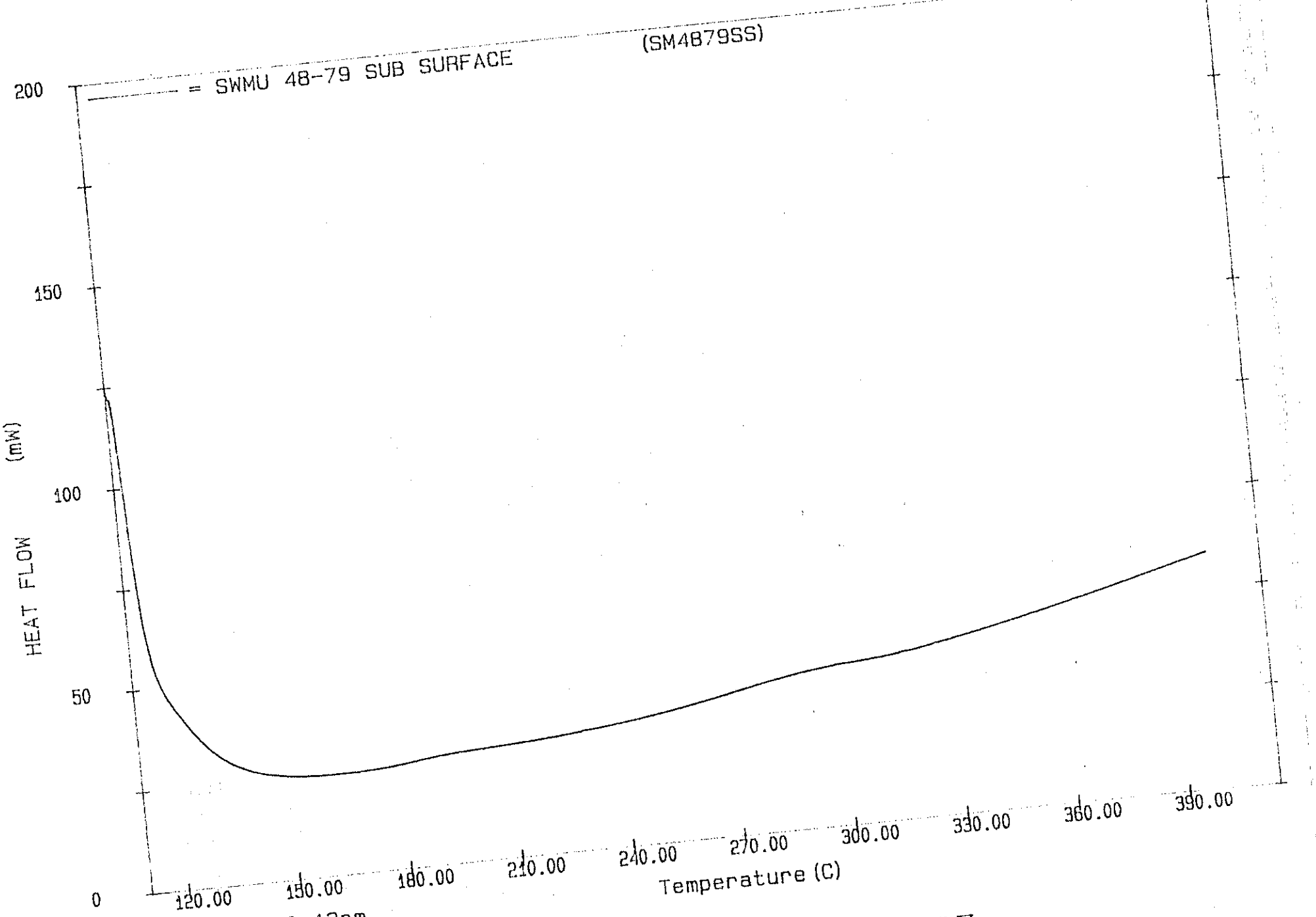
Sample Wt: 0.000 mg Path: C:\PE\
File: SM4877SS ST 9-20-96

PERKIN-ELMER DSC7



Date: Sep 20, 1996 10: 13am
Scanning Rate: 20.0 C/min
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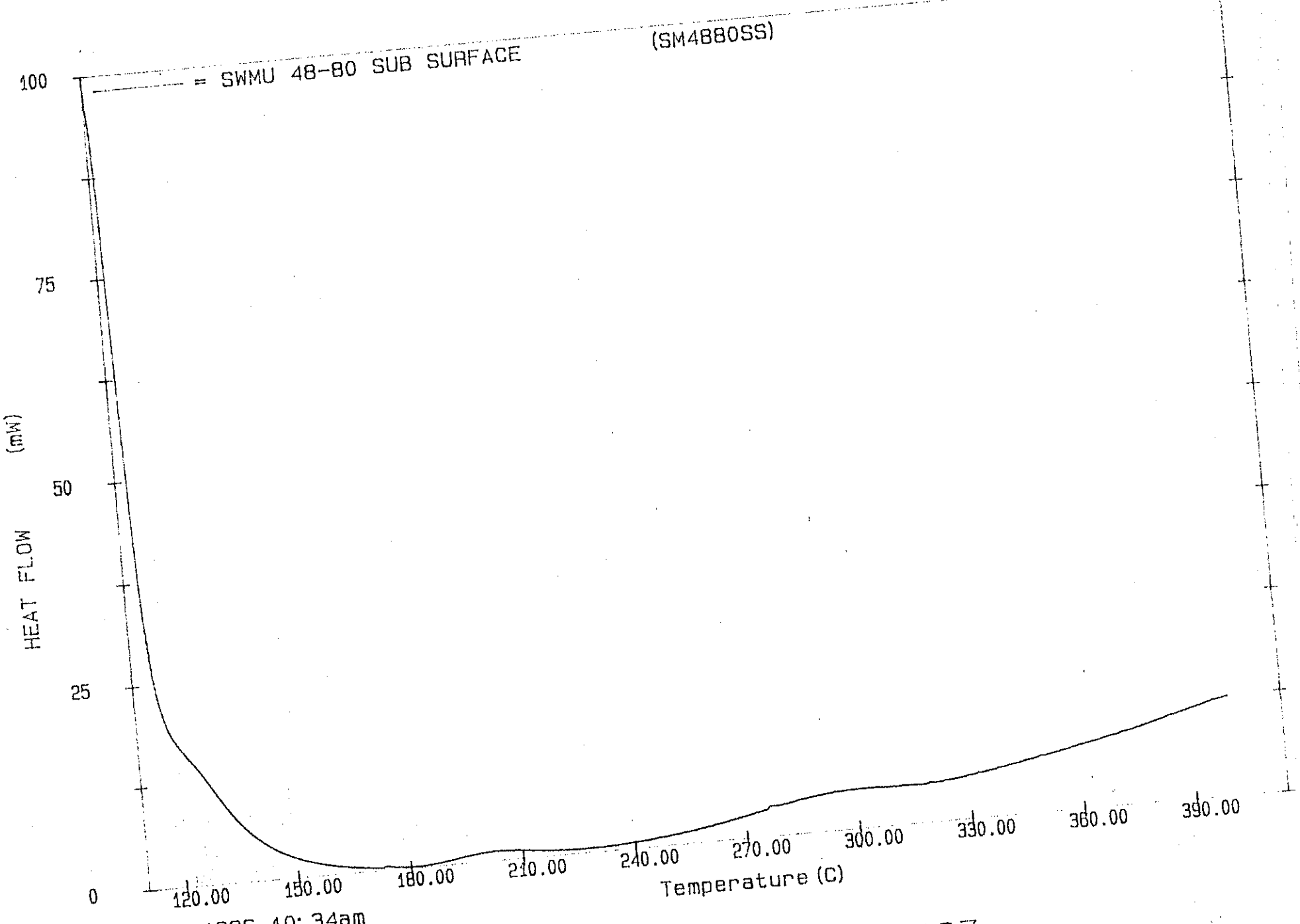
PE[illegible]IN-ELMER DSC7



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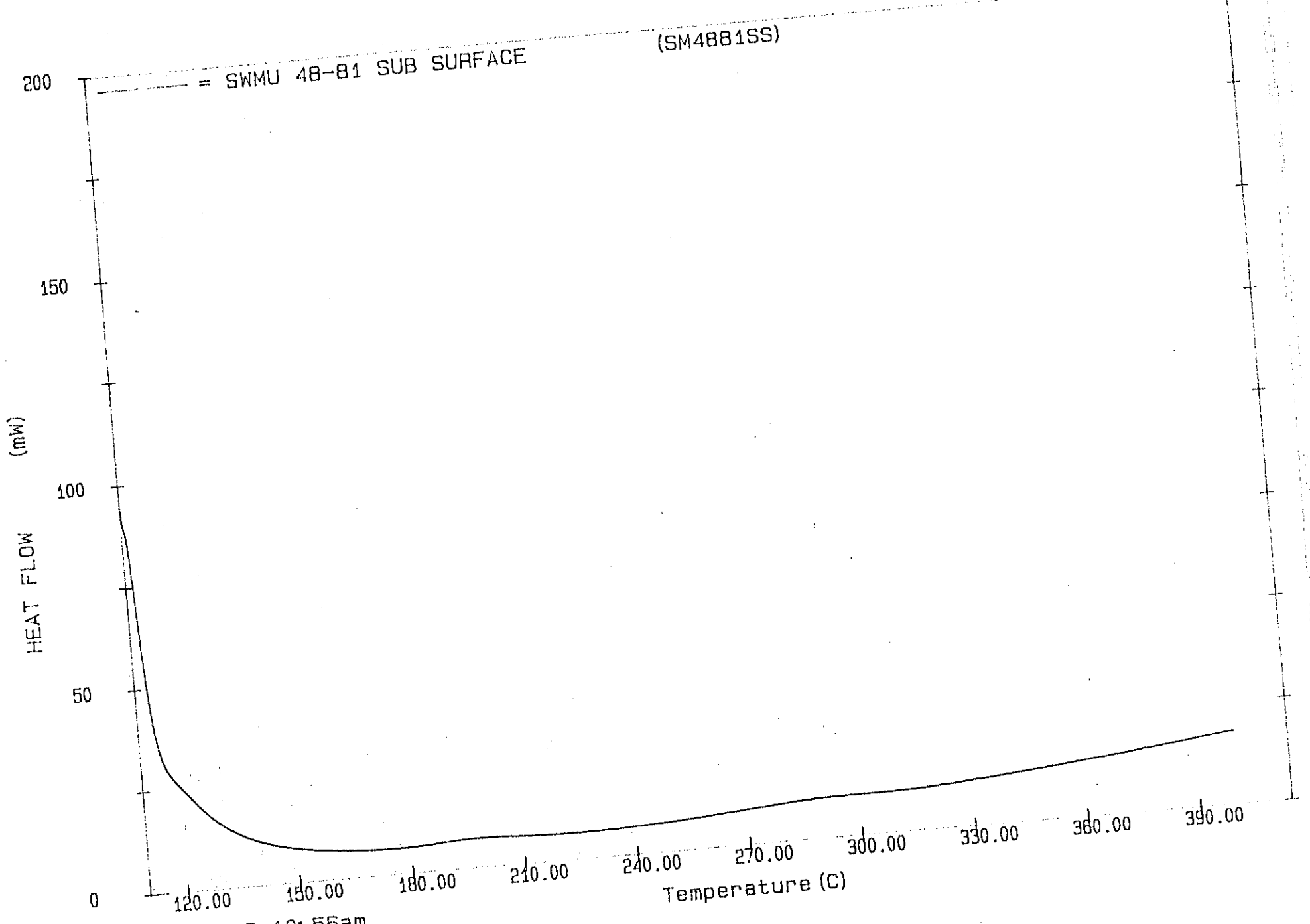
PE[illegible]IN-ELMER DSC7



Date: Sep 20, 1996 10:56am
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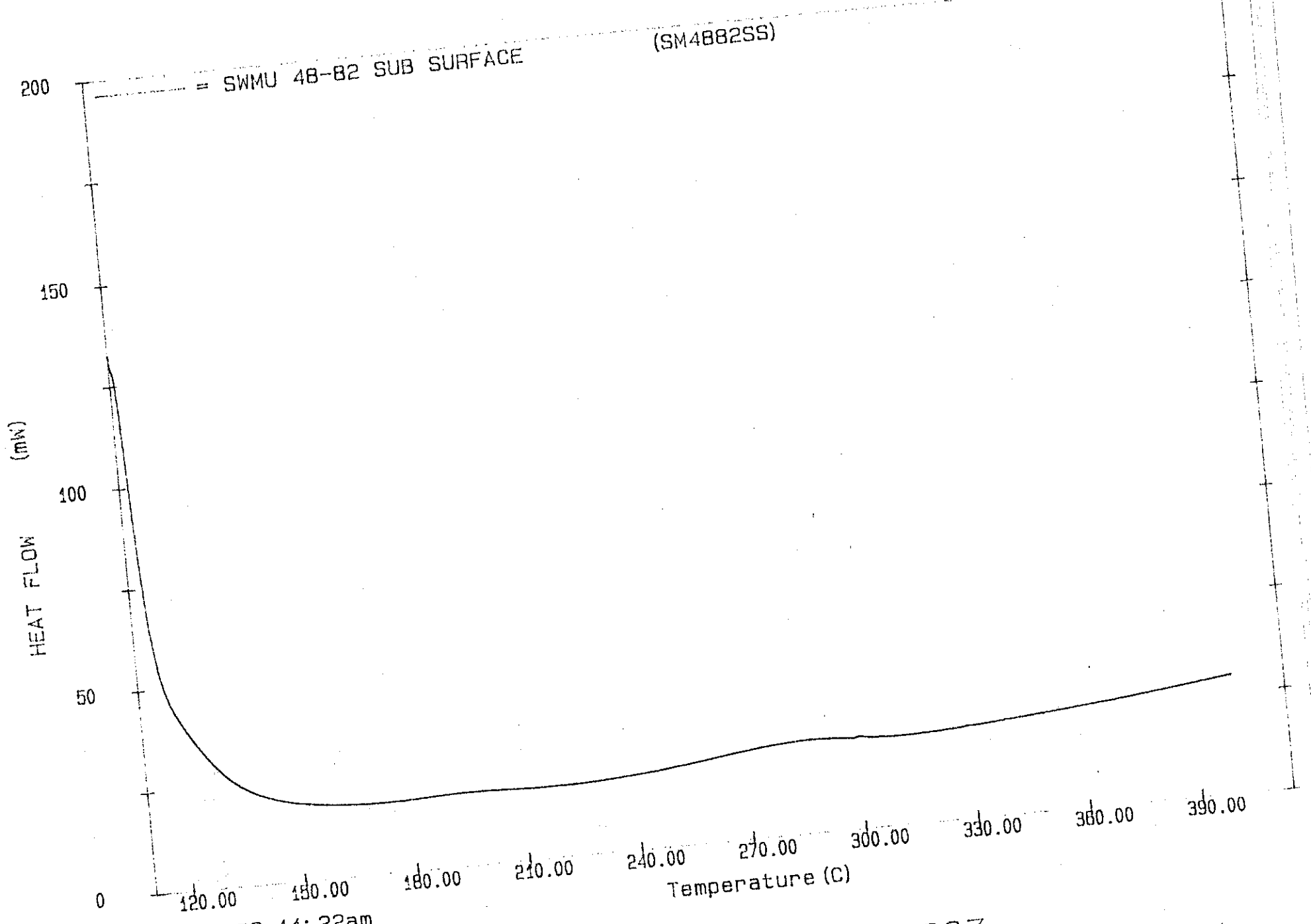
Sample Wt: 0.000 mg Path: C:\PE\
File: SM4881SS ST 9-20-96

PERKIN-ELMER DSC7



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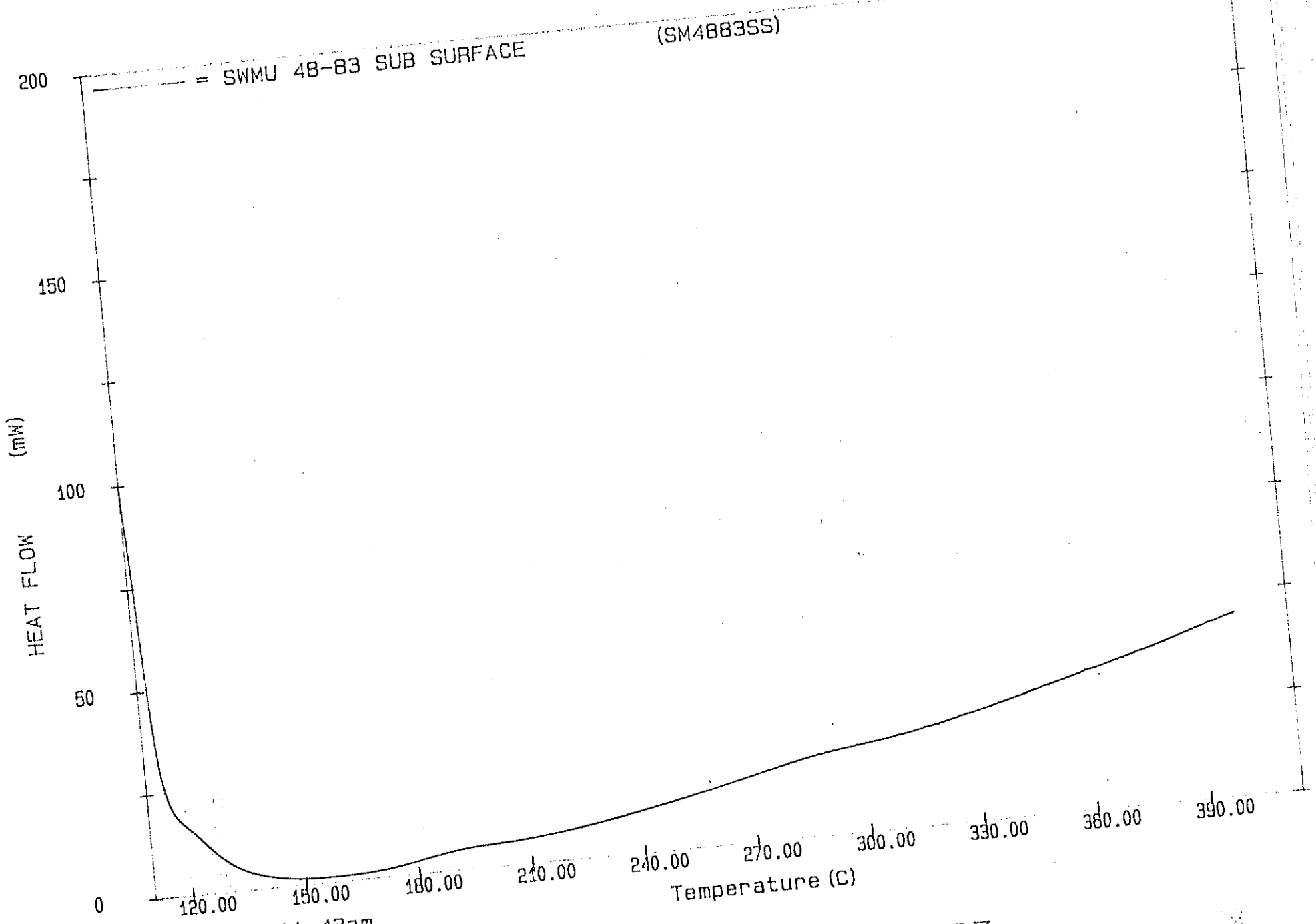
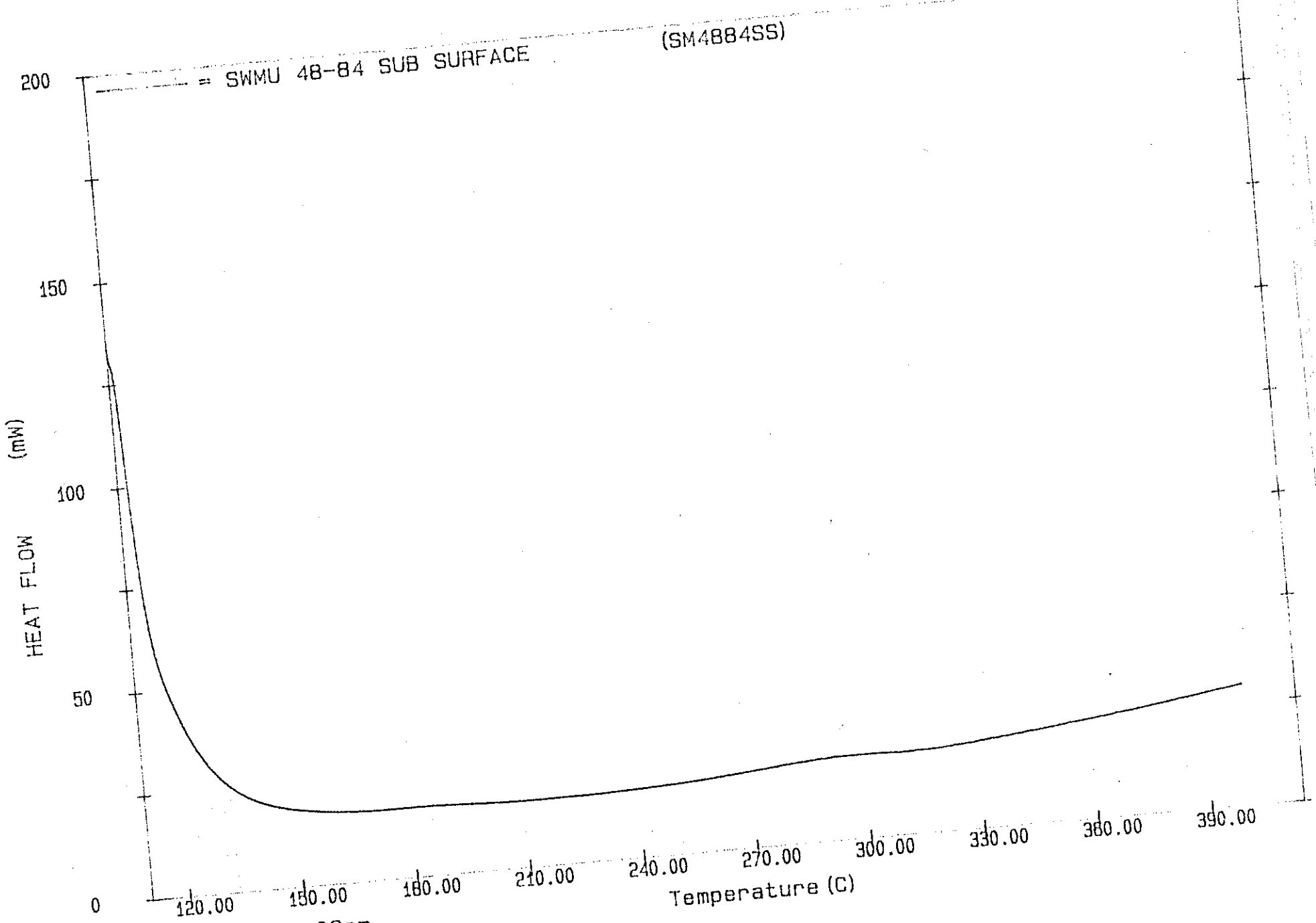
Scanning Rate: 20.0 C/min
Samp' Wt: 0.000 mg Path: C:\PE\
Fil... SM4882SS ST 9-20-96

PE ...IN-ELMER DSC7



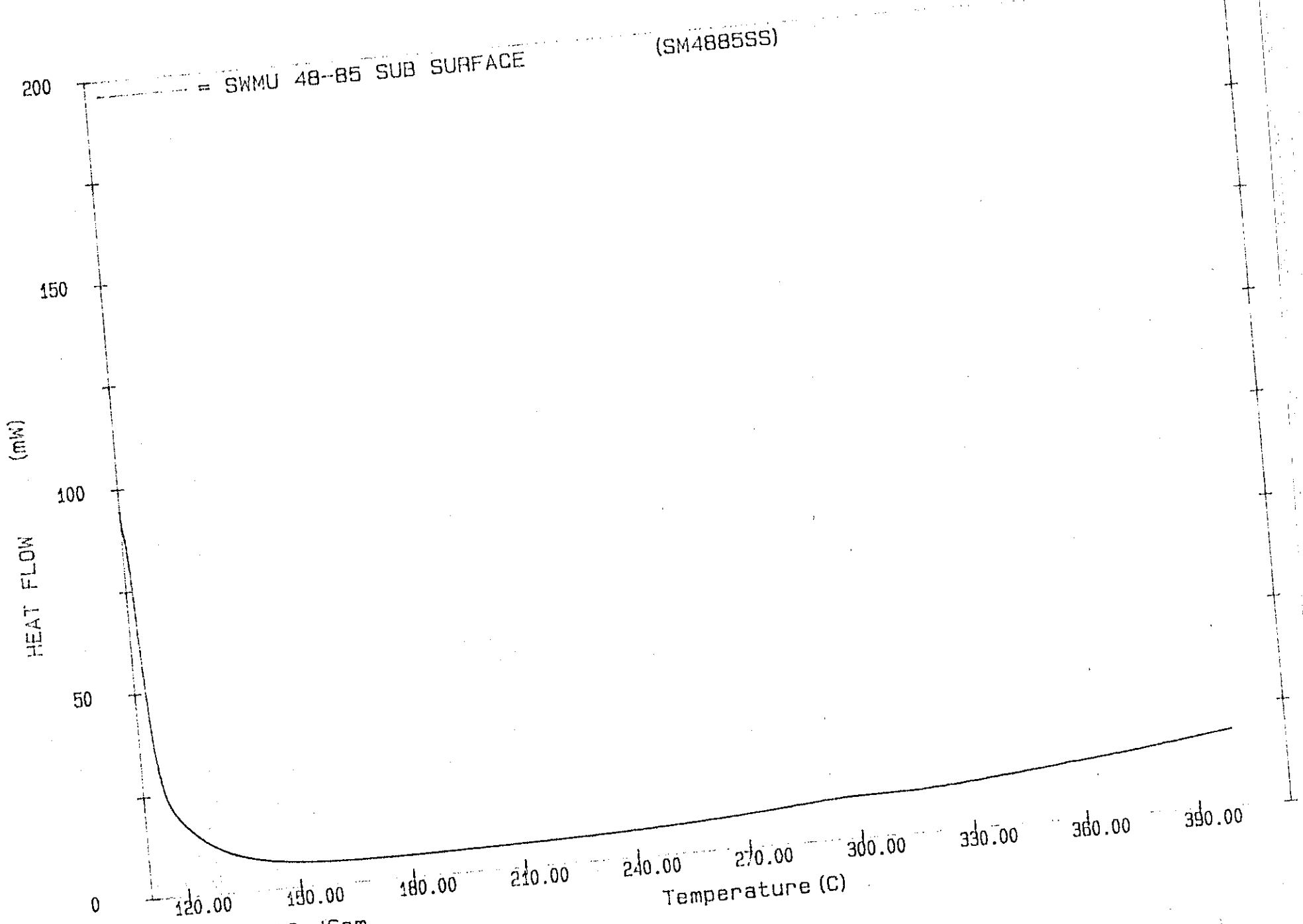
Date: Sep 20, 1996 11: 43am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C: \PE\
File: SM4883SS ST 9-20-96

PERKIN-ELMER DSC7



Date: Sep 20, 1996 12:08am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File SM4884SS ST 9-20-96

PERKIN-ELMER DSC7



Date: Sep 20, 1996 12: 46am
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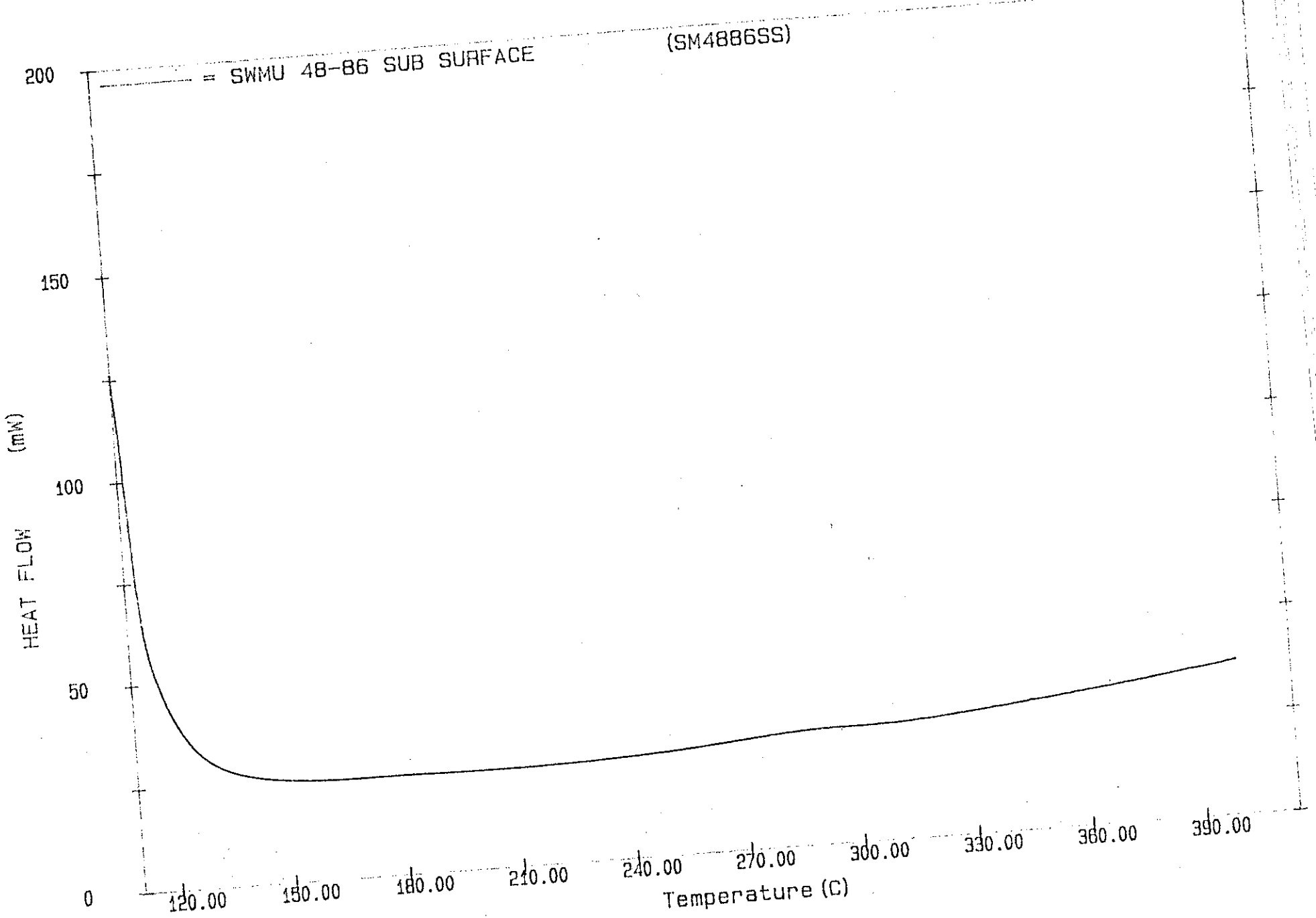
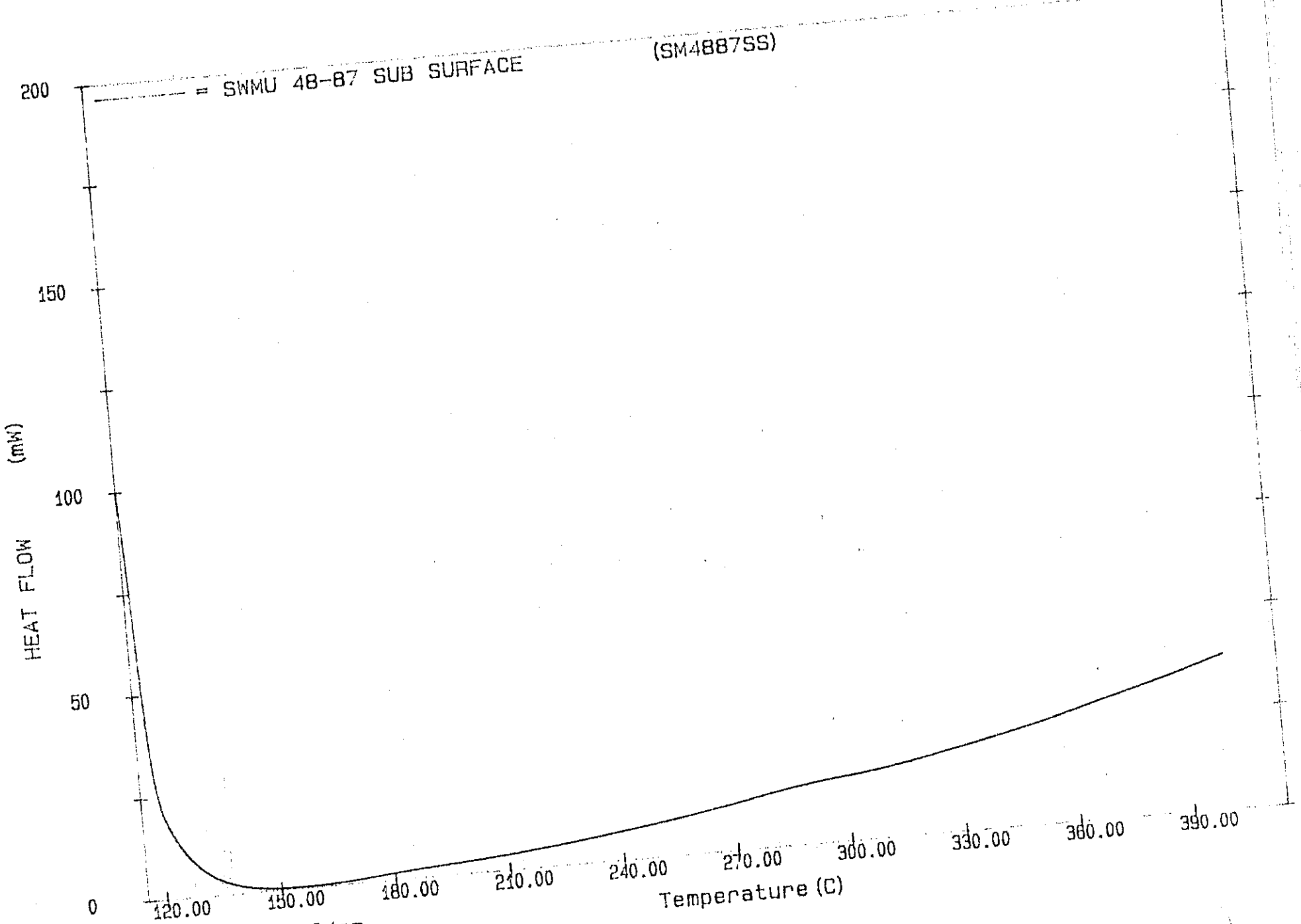
Samp' Wt: 0.000 mg Path: C: \PE\
File: SM4885SS ST 9-20-96

PE[illegible]IN-ELMER DSC7



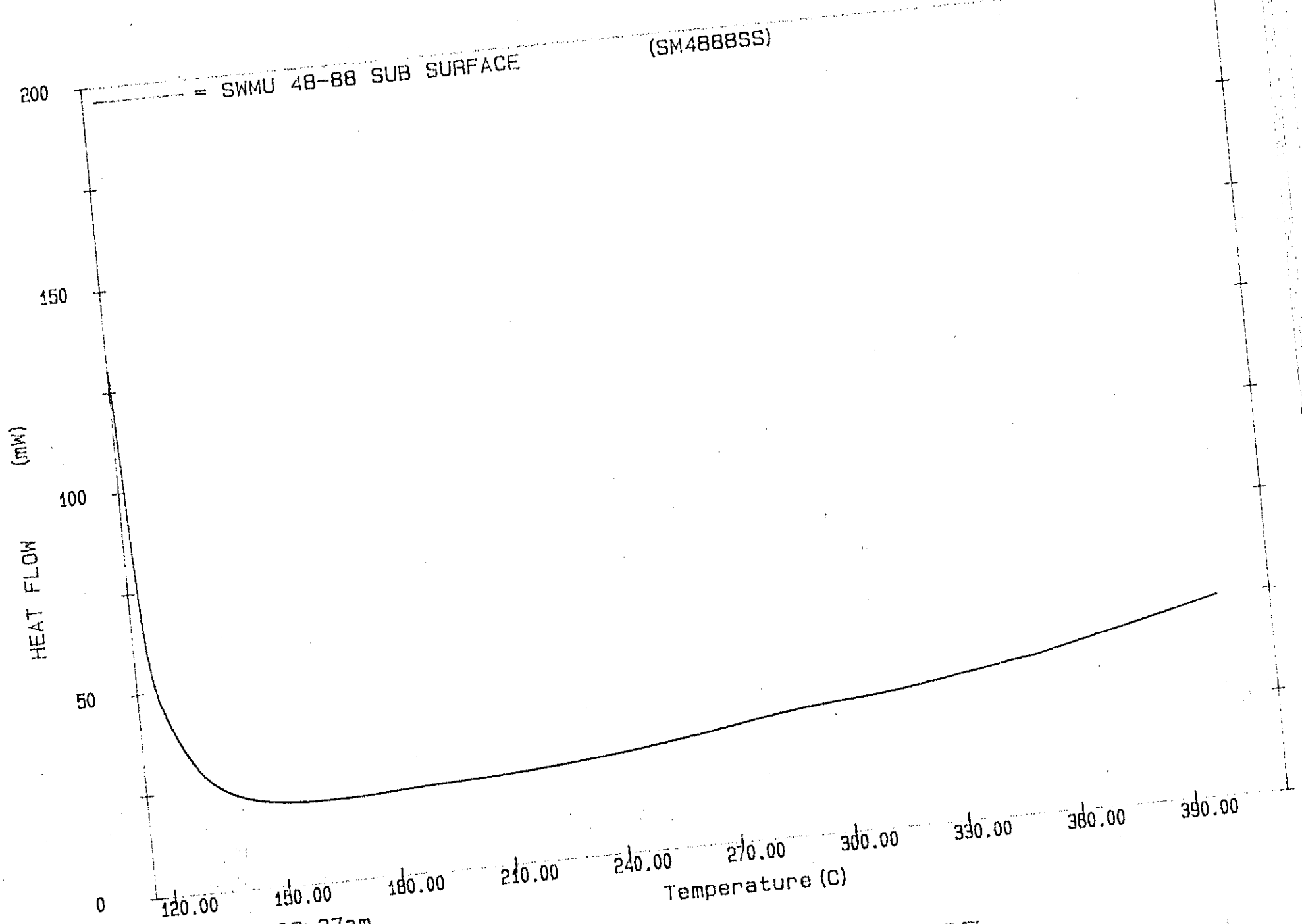
Date: Sep 20, 1996 1:08pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM4886SS ST 9-20-96

PER PERKIN-ELMER DSC7



Date: Sep 23, 1996 08: 04am
Scanning Rate: 20.0 C/min
Sampl[illegible]t: 0.000 mg Path: C: \PE\
File: SM4887SS ST 9-23-96

PERKIN-ELMER DSC7



Date: Sep 23, 1996 08: 37am
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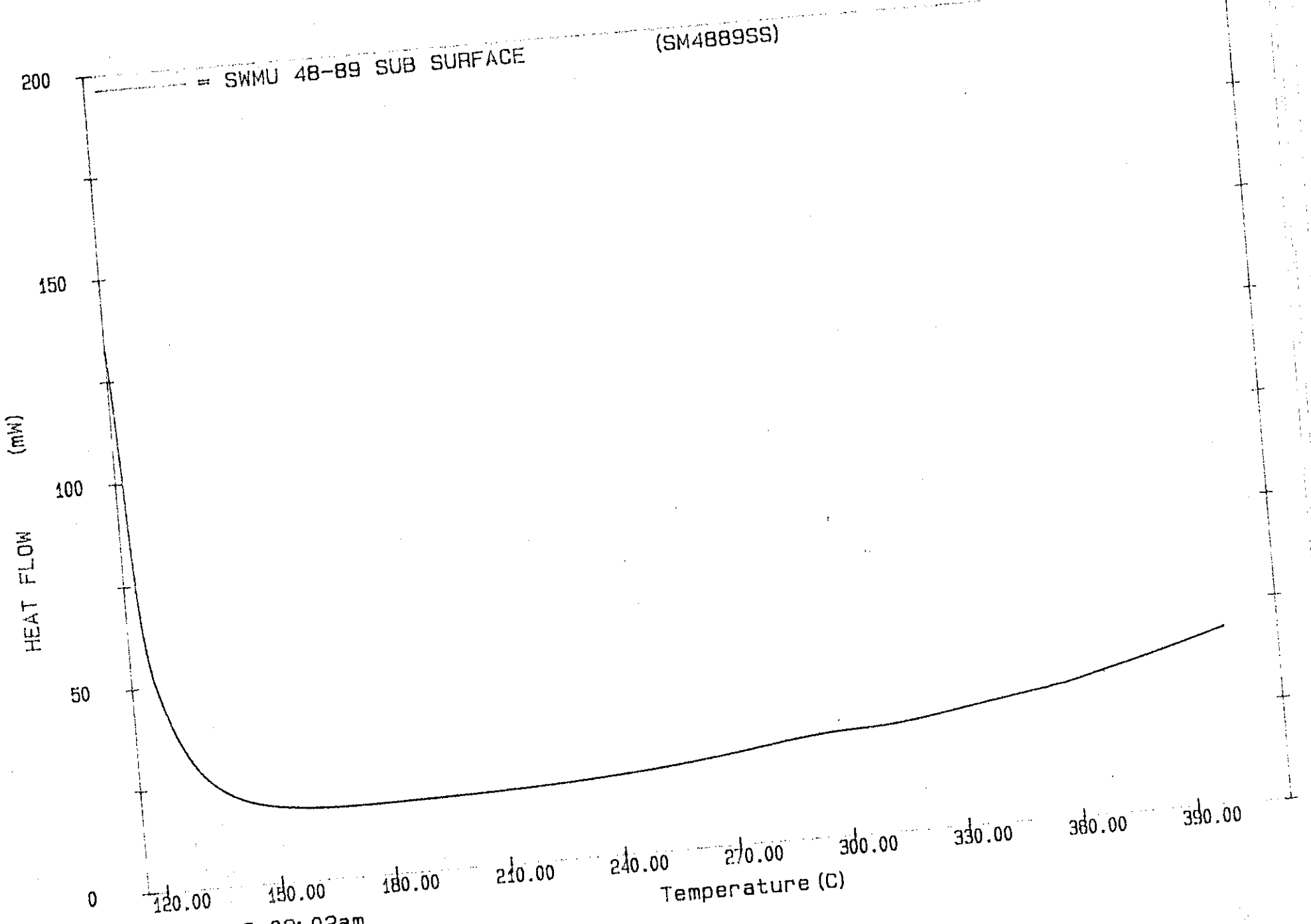
File SM4888SS ST 9-23-96

PERKIN-ELMER DSC7



Date: Sep 23, 1996 09: 02am
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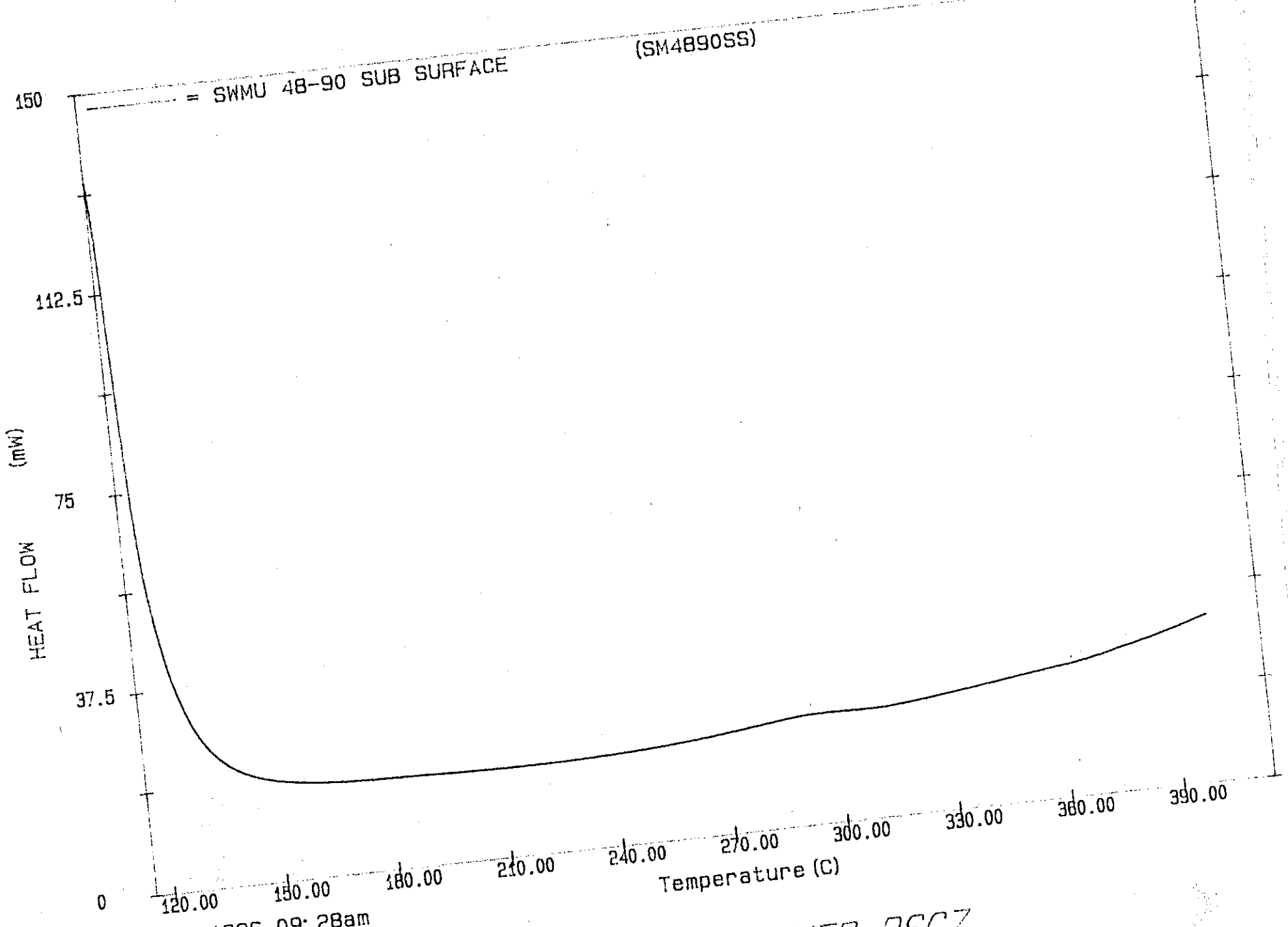
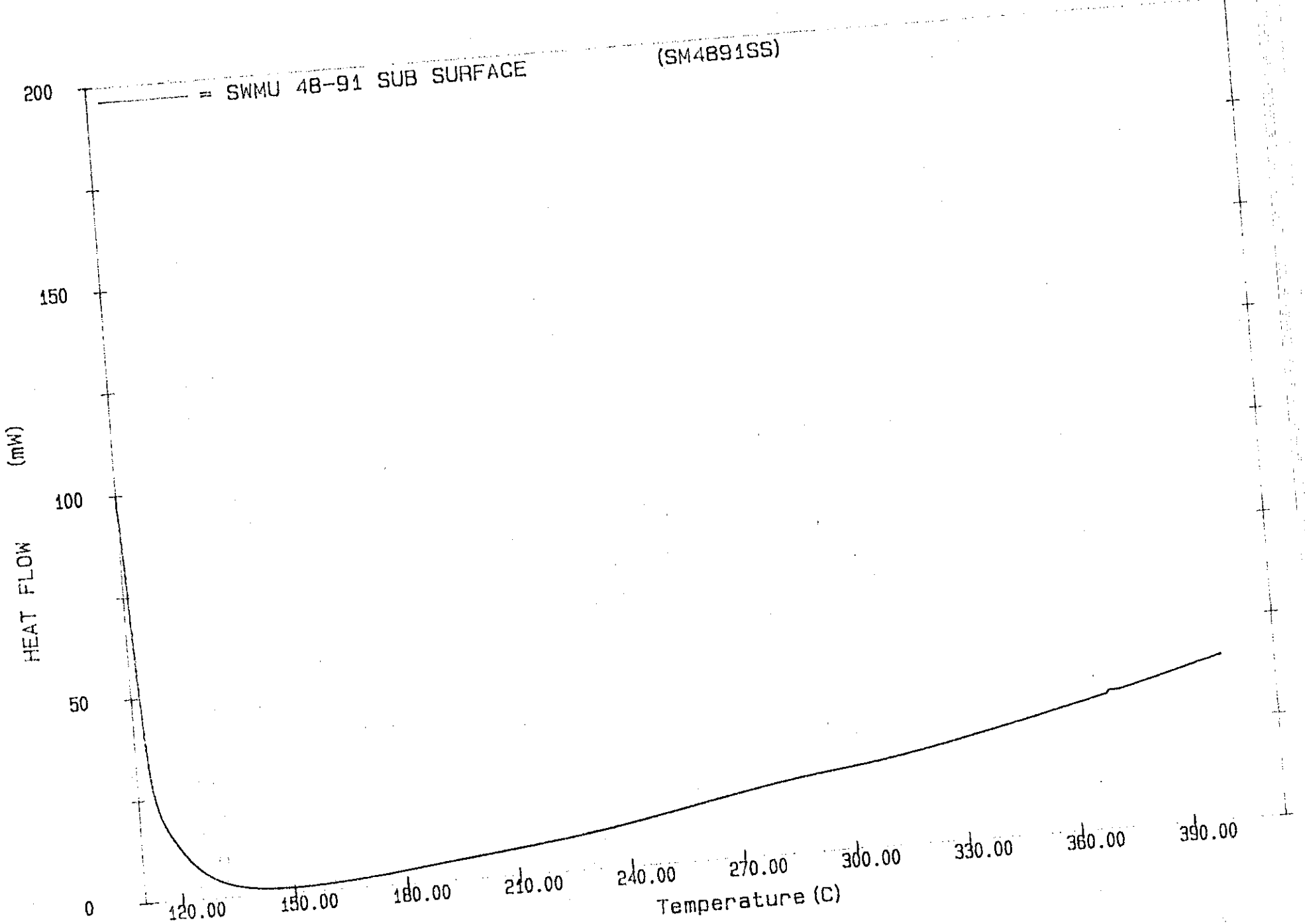
File: M4889SS ST 9-23-96

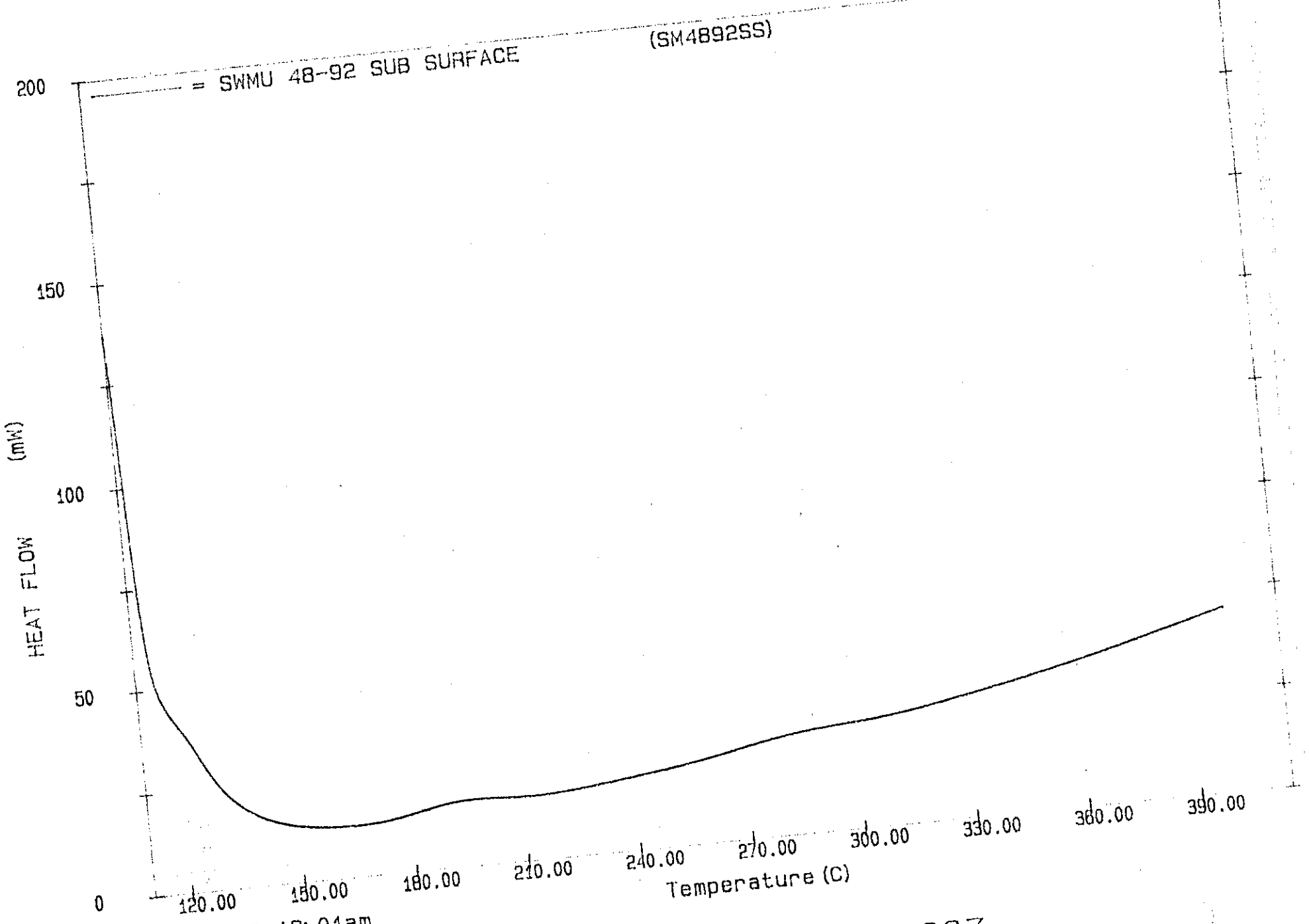
PERKIN-ELMER DSC7


= SWMU 48-90 SUB SURFACE
(SM4890SS)
150
112.5
75
37.5
0
HEAT FLOW
(mW)
120.00
150.00
180.00
210.00
240.00
270.00
300.00
330.00
360.00
390.00
Temperature (C)
Date: Sep 23, 1996 09: 28am
Scanning Rate: 20.0 C/min
Samp Wt: 0.000 mg Path: C: \PE\
File: SM4890SS ST 9-23-96
PE PERKIN-ELMER DSC7



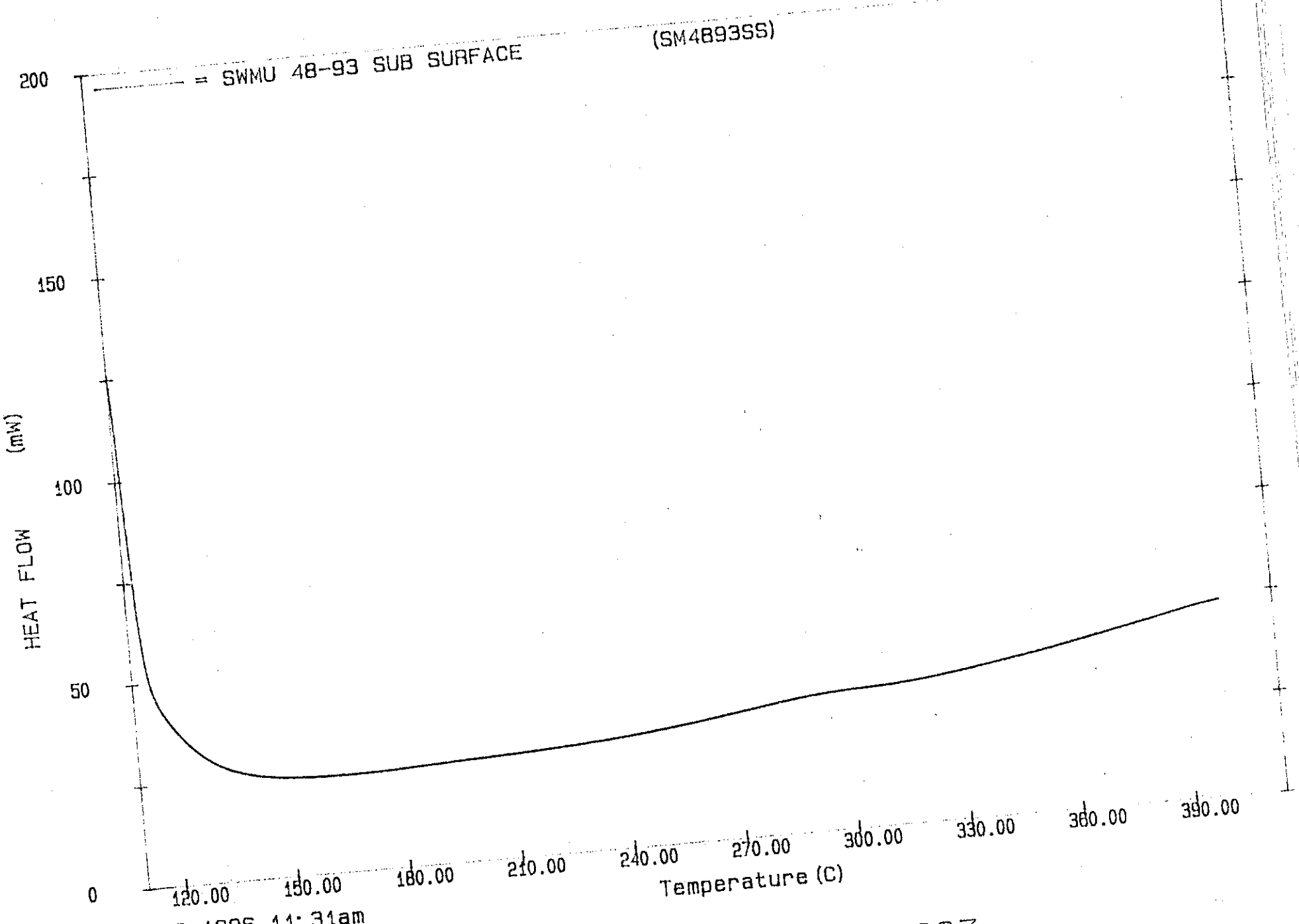
Date: Sep 23, 1996 11:02am
Scanning Rate: 20.0 C/min
Sampl[illegible]Wt: 0.000 mg Path: C:\PE\
File SM4891SS ST 9-23-96

PER...IN-ELMER DSC7



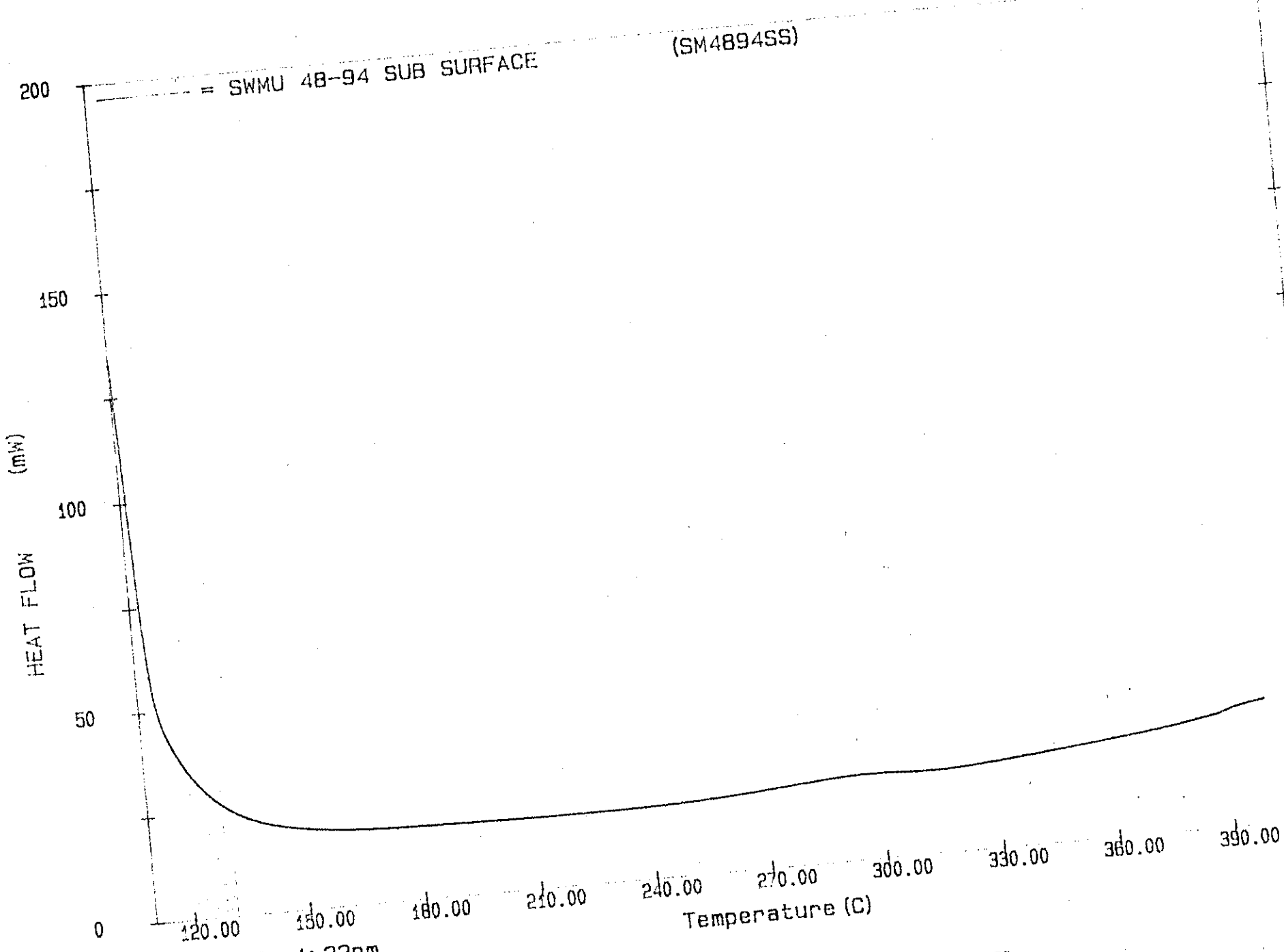
Date: Sep 23, 1996 12:01am
Scanning Rate: 20.0 C/min
Sam[illegible] Wt: 0.000 mg Path: C:\PE\
Fi[illegible]: SM4892SS ST 9-23-96

PERKIN-ELMER DSC7



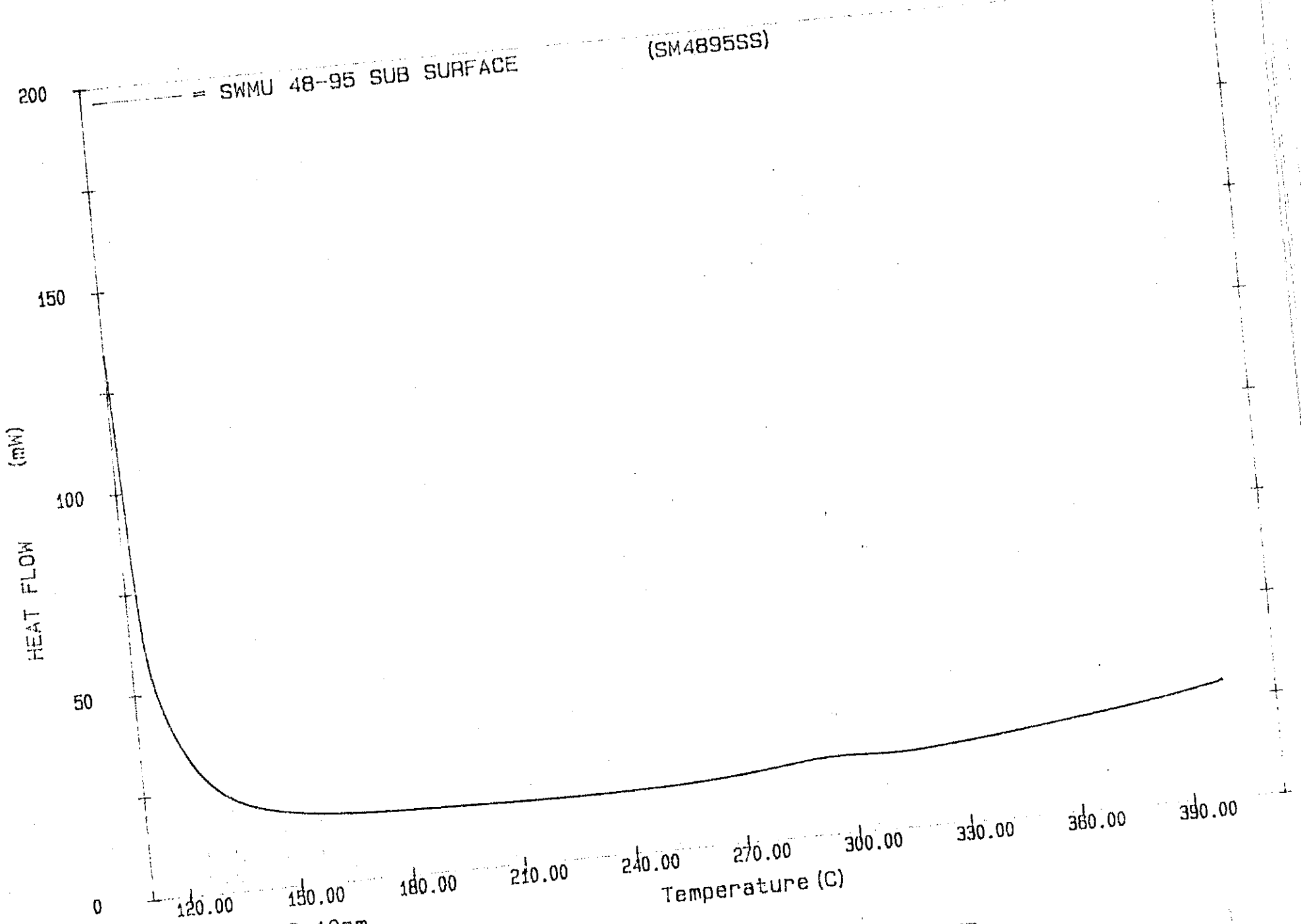
Date: Sep 23, 1996 11:31am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File M4893SS ST 9-23-96

PERKIN-ELMER DSC7



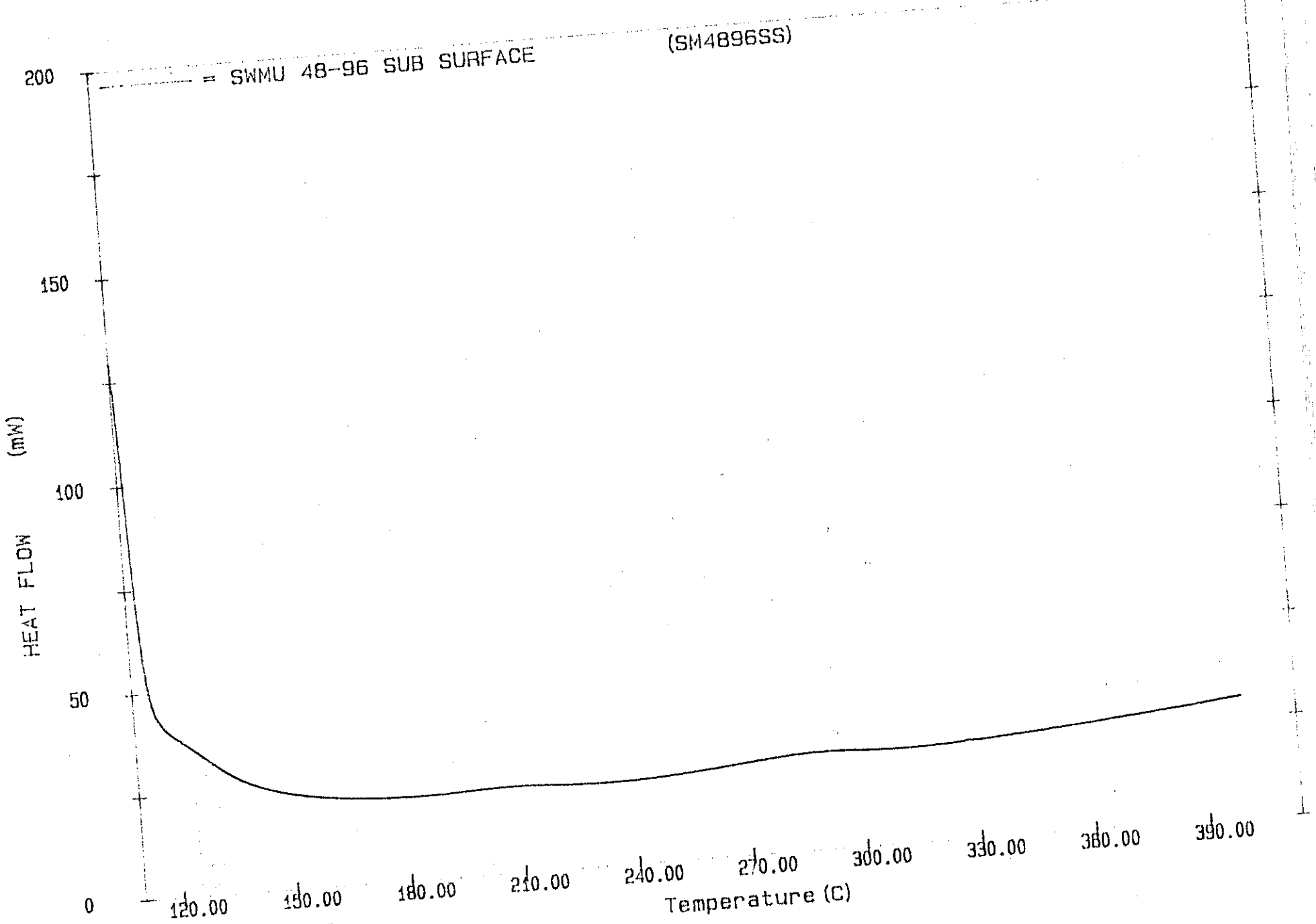
Date: Sep 23, 1996 1:22pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM4894SS ST 9-23-96

PERKIN-ELMER DSC7



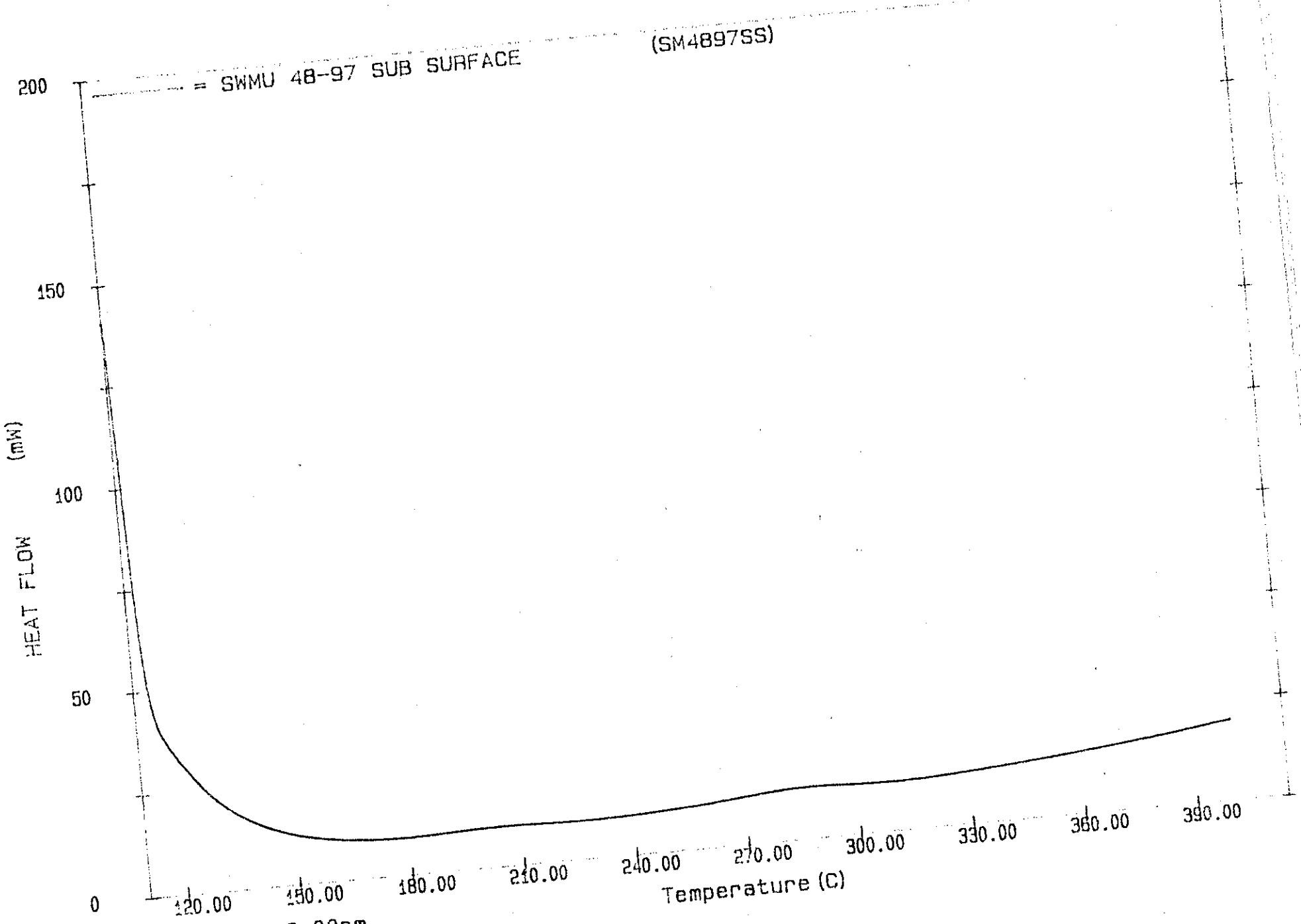
Date: Sep 23, 1996 2: 10pm
Scanning Rate: 20.0 C/min
Sampl t: 0.000 mg Path: C: \PE\
File : SM4895SS ST 9-23-96

PER. IN-ELMER DSC7



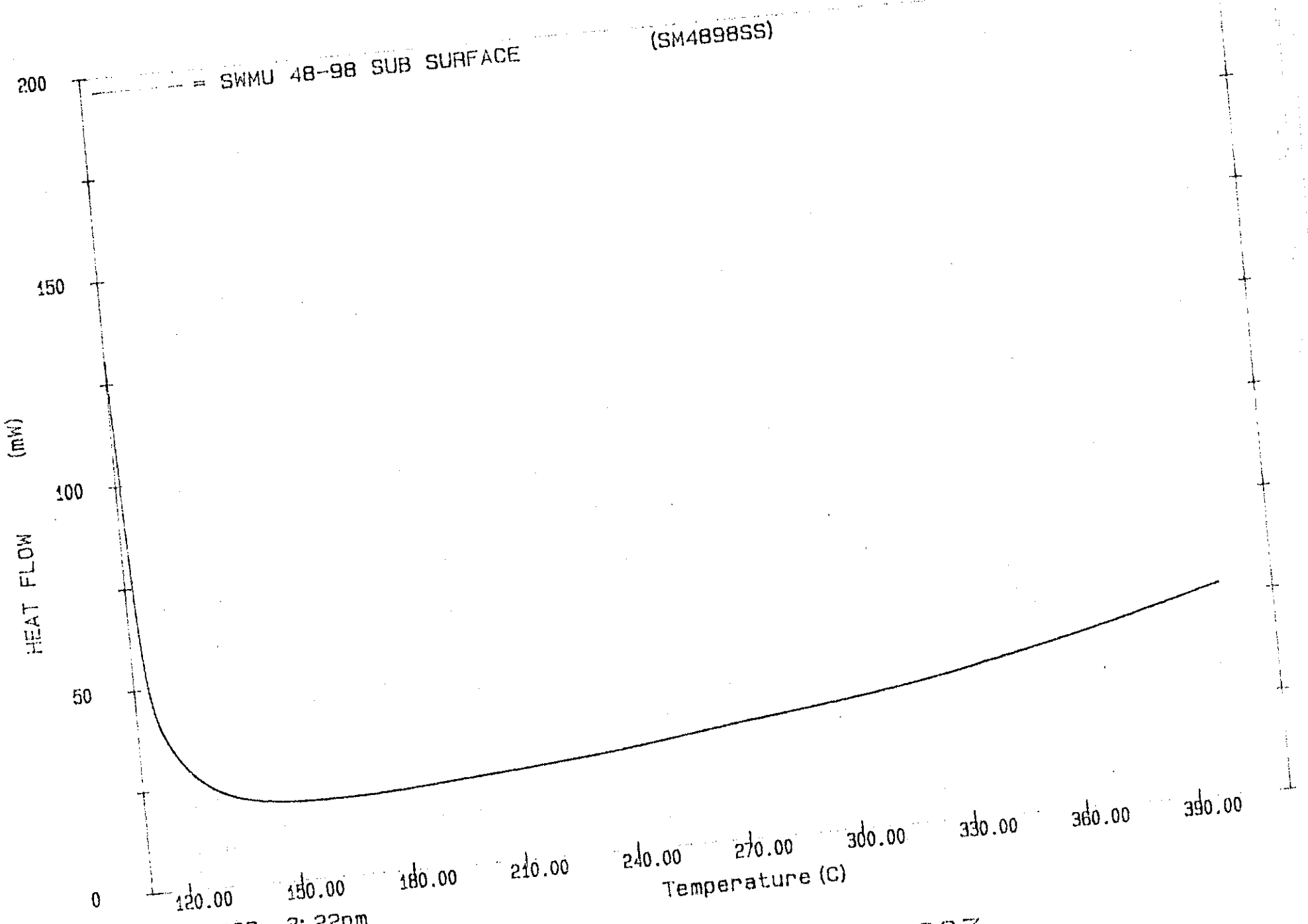
Date: Sep 23, 1996 2:32pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File SM4896SS ST 9-23-96

PERKIN-ELMER DSC7



Date: Sep 23, 1996 3:00pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM4897SS ST 9-23-96

PERKIN-ELMER DSC7



Date: Sep 23, 1996 3:22pm
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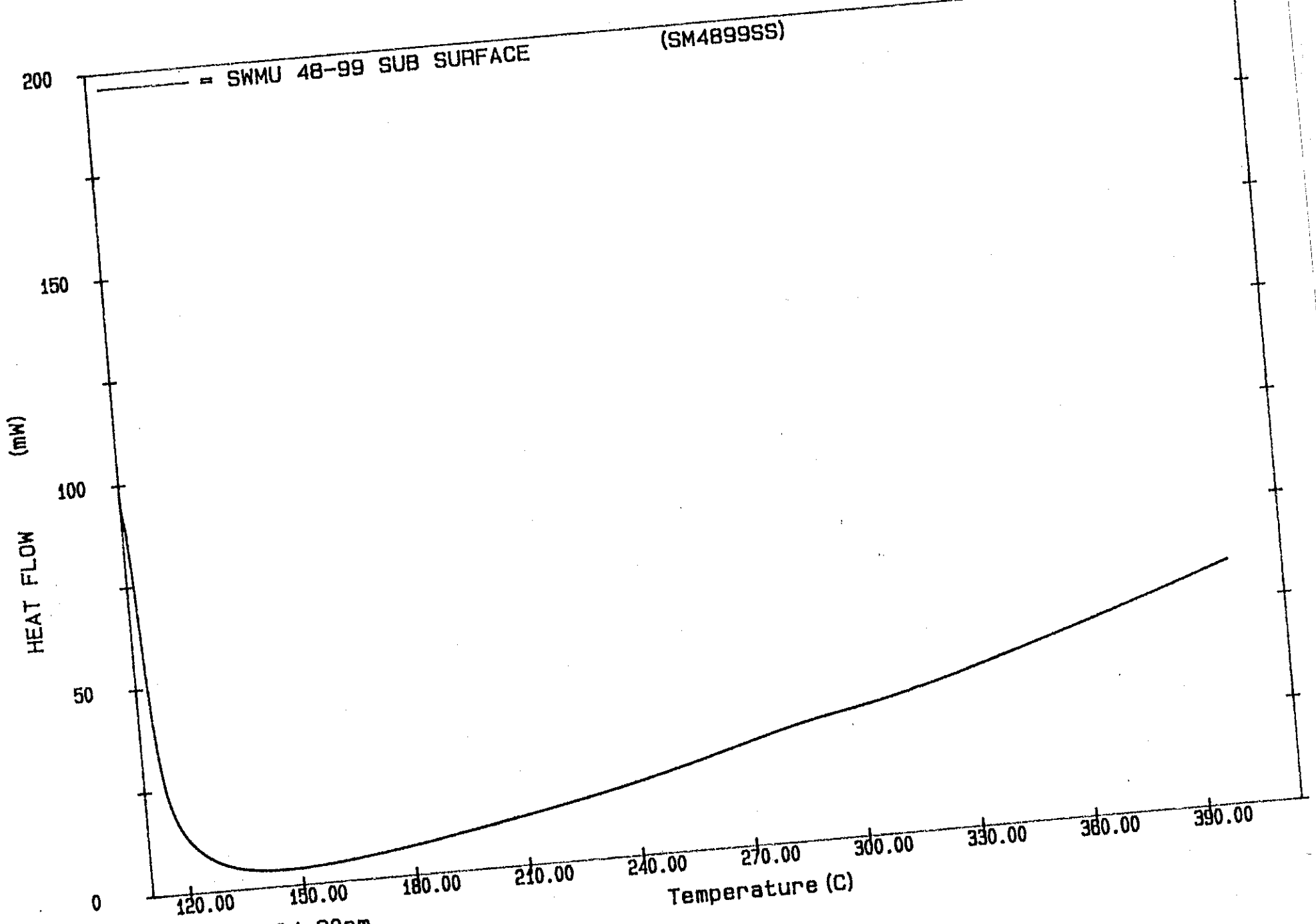
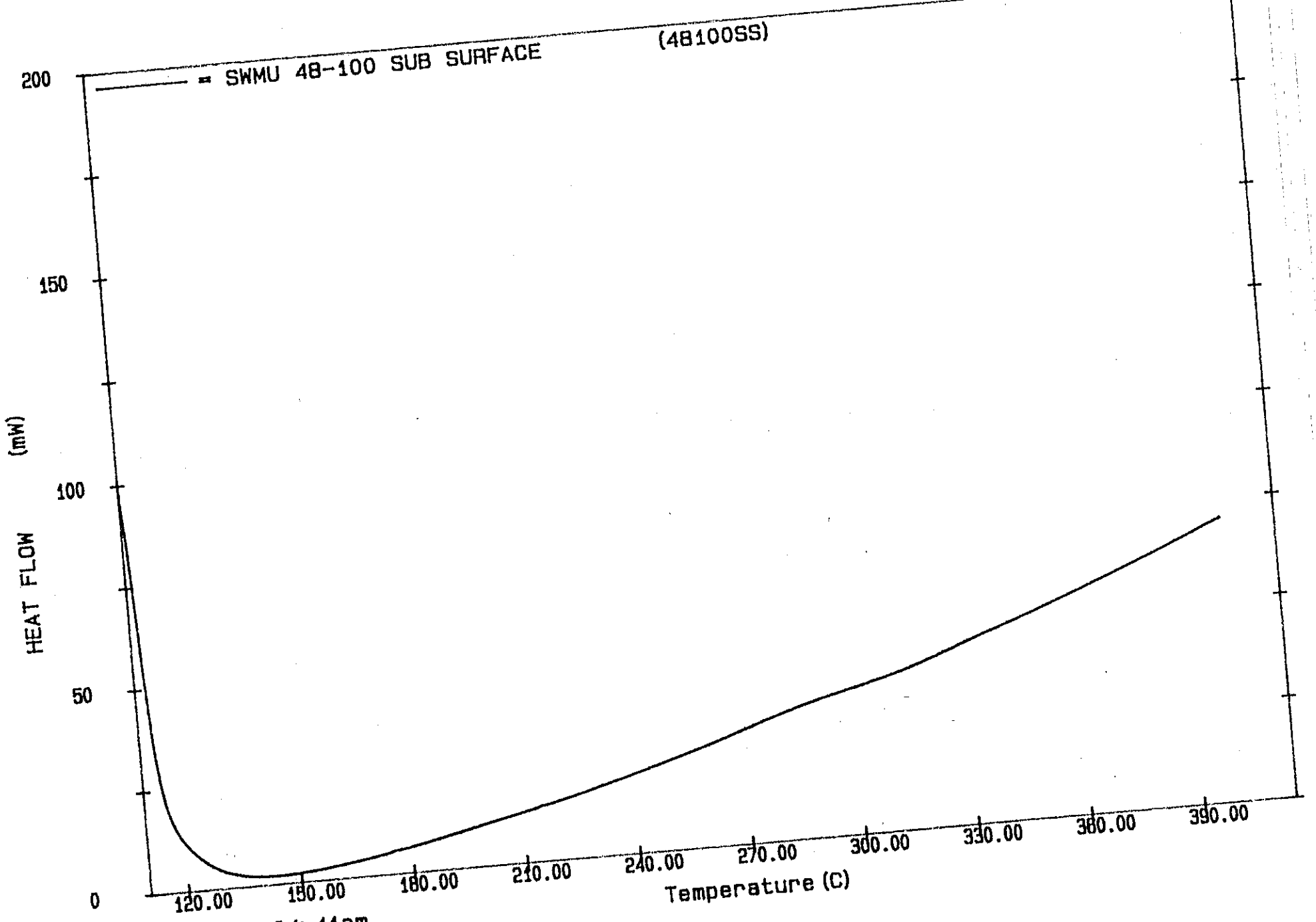
Sample Wt: 0.000 mg Path: C:\PE\
File: M4898SS ST 9-23-96

PERKIN-ELMER DSC7



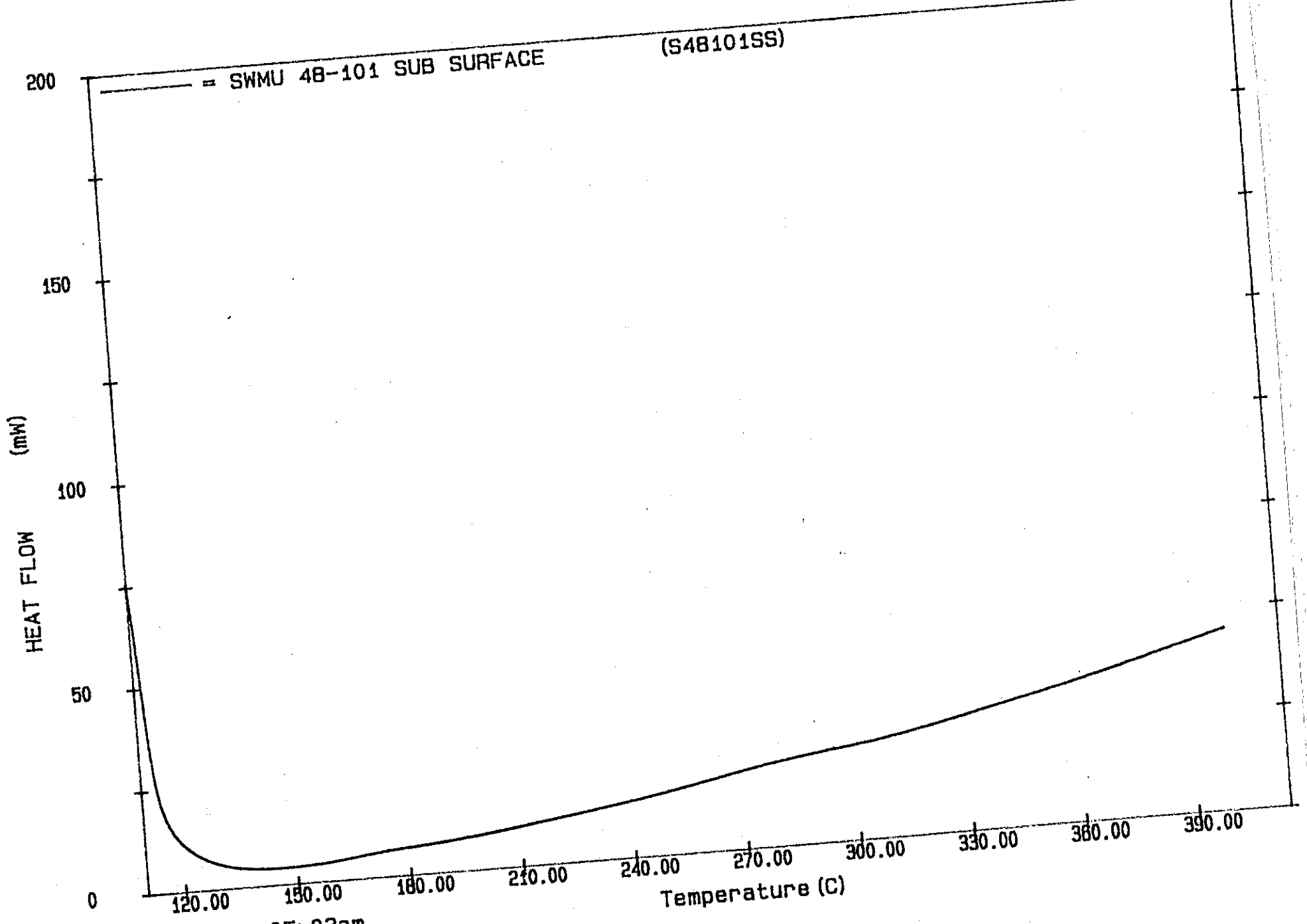
Date: Aug 07, 1996 04:20am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File 14899SS ST 9-13-96

PERKIN-ELMER DSC7



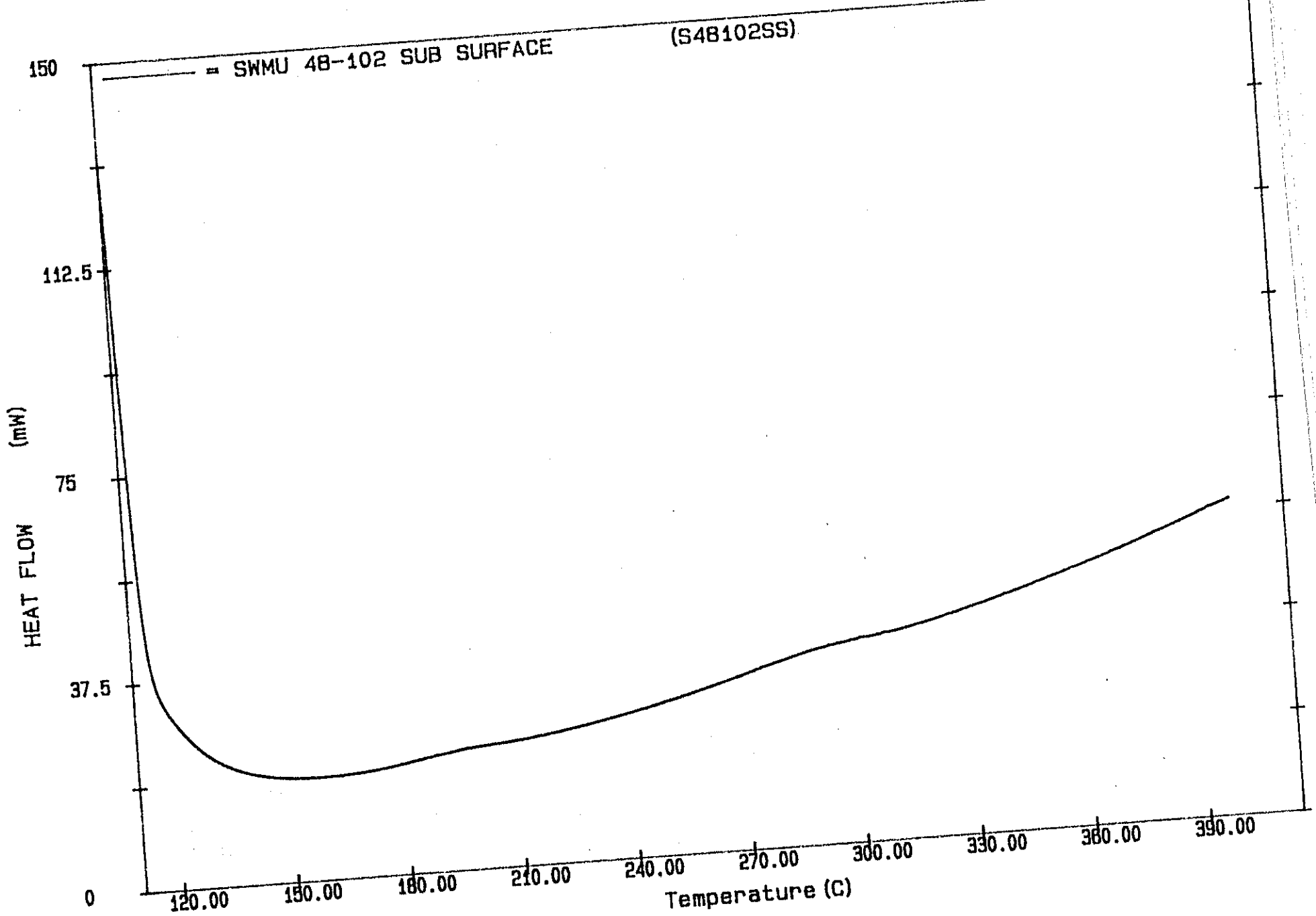
Date: Aug 07, 1996 04:41am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: 48100SS ST 9-13-96

PERKIN-ELMER DSC7



Date: Aug 07, 1996 05:03am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: S48101SS ST 9-13-96

PE[illegible]IN-ELMER DSC7



Date: Aug 07, 1996 05:25am
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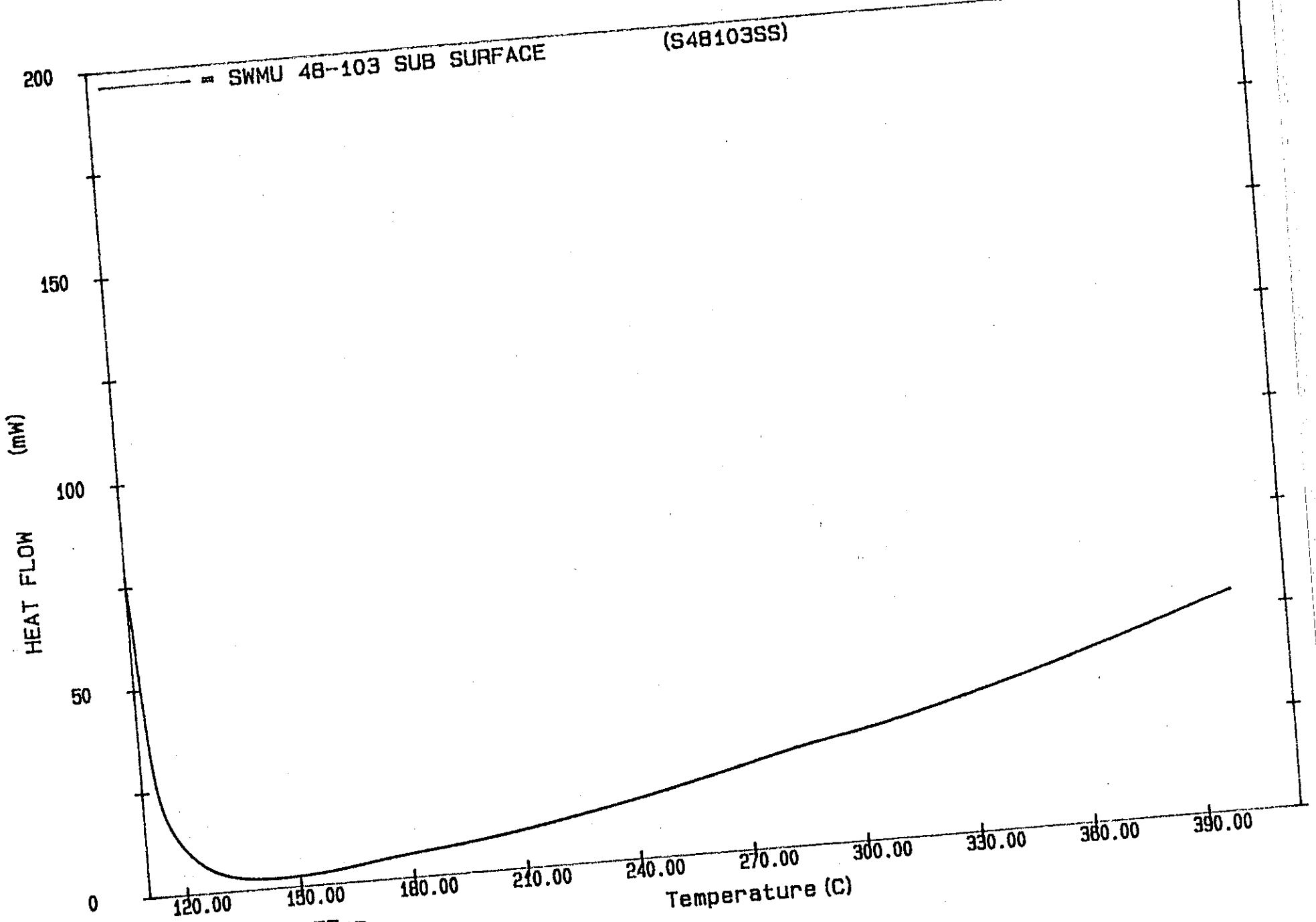
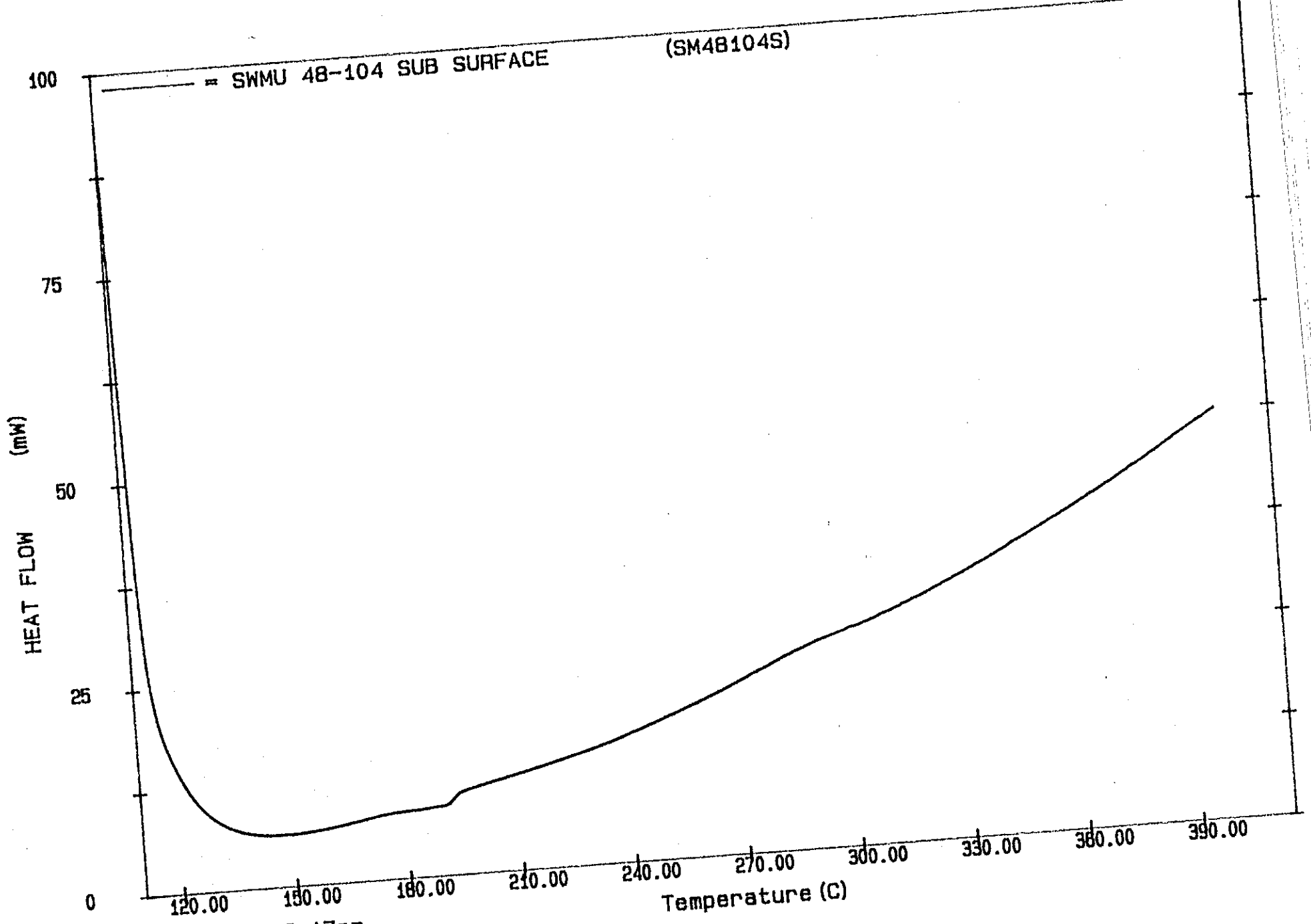
File: S48102SS ST 9-13-96

PERKIN-ELMER DSC7



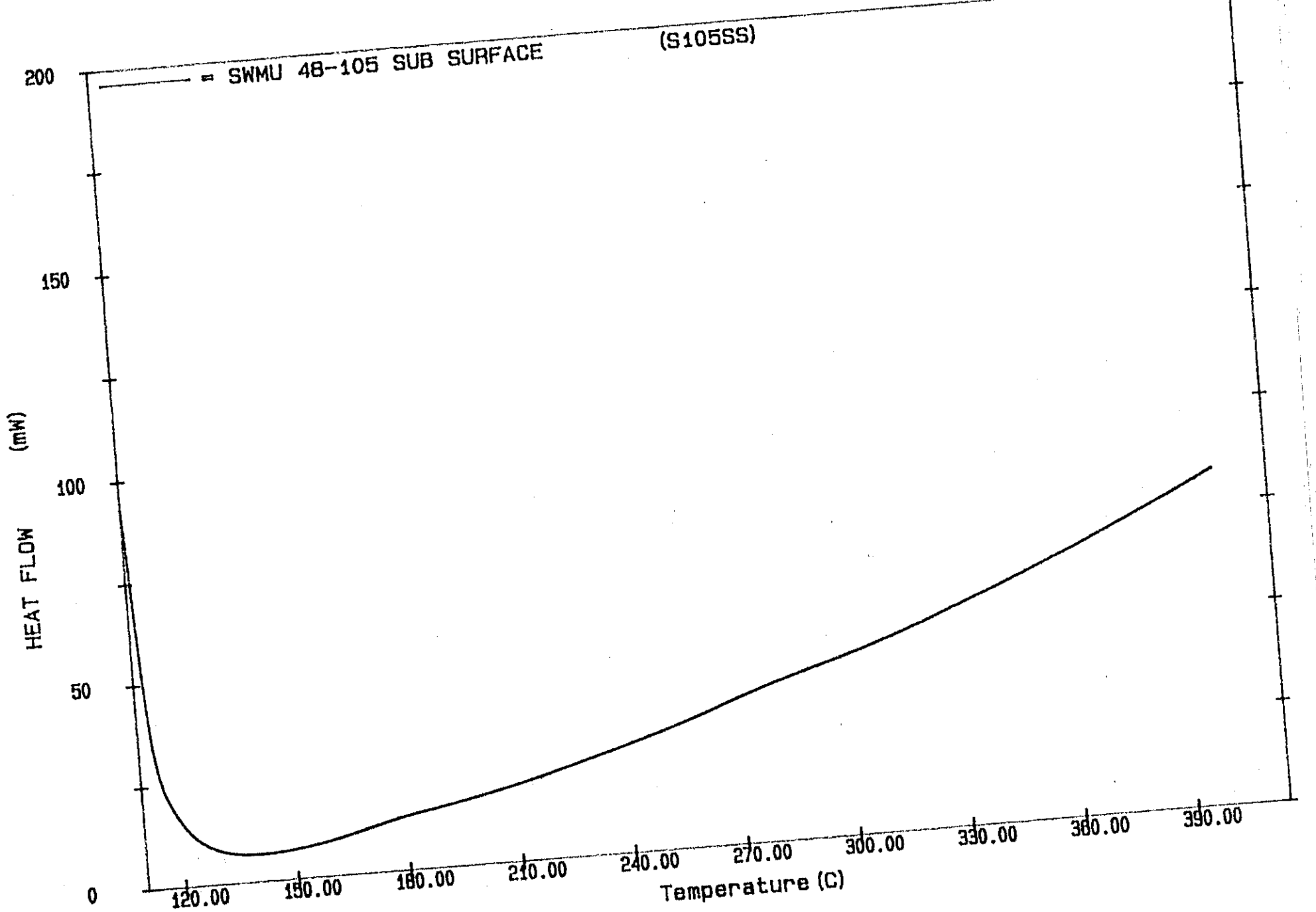
Date: Aug 07, 1996 06:57am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: S48103SS ST 9-13-96

PERKIN-ELMER DSC7



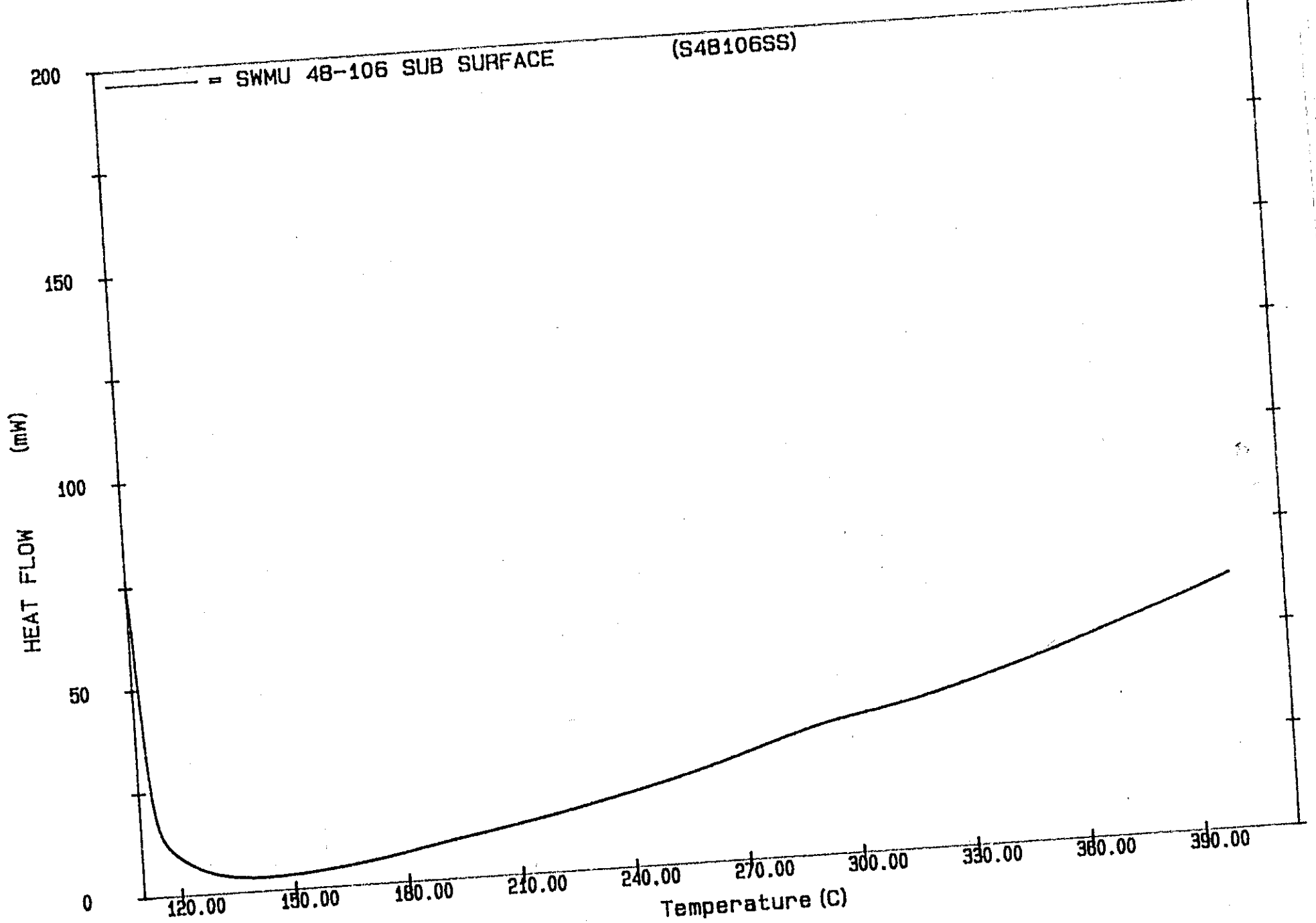
Date: Aug 07, 1996 07:17am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File: SM48104S ST 9-13-96

PERKIN-ELMER DSC7



Date: Aug 07, 1996 07:38am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File 105SS ST 9-13-96

PERKIN-ELMER DSC7



Date: Aug 07, 1996 08:00am
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: C:\PE\
File 8106SS ST 9-13-96

PERKIN-ELMER DSC7

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 1

TESTER Miller/ Cook/ Schmidt

FRICTION TEST: IMPACT TEST: DEPTH CALORIMETRIC TEST:

	Reactive Yes	Reactive No	Reactive Yes	Reactive No	DEPTH		Results
1.		✓		✓	1.	1.	Neg
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 2

TESTER Miller / Cook / Schmidt

FRICTION TEST: IMPACT TEST: DEPTH CALORIMETRIC TEST:

	Reactive Yes	Reactive No	Reactive Yes	Reactive No	DEPTH		Results
1.		✓		✓	1.	1.	Neg
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 3

TESTER Miller / Cook / Schmidt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.		1.	1.	N/A
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 4

TESTER Miller / Cook / Shupt

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	Reactive No	DEPTH
1.		✓	1.
2.		✓	2.
3.		✓	3.
4.		✓	4.
5.		✓	5.
6.		✓	6.

CALORIMETRIC TEST:
Results

1.	Neg
2.	
3.	
4.	
5.	
6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 5

TESTER Miller / Cook / Schuyt

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

N/R

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 6

TESTER Miller / Cook / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.		1.	1.	Neg
2.	✓	2.	/	2.	2.	
3.	✓	3.	/	3.	3.	
4.	✓	4.	/	4.	4.	
5.	✓	5.	/	5.	5.	
6.	✓	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 7

TESTER Miller / Cook / 12 Sept

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	No		
1.		✓	1.	1.
2.	✓		2.	2.
3.	✓		3.	3.
4.	✓		4.	4.
5.	✓		5.	5.
6.	✓		6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 8

TESTER Miller / Cook / Hart

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	No		
1.		✓	1.	1.
2.		✓	2.	2.
3.		✓	3.	3.
4.		✓	4.	4.
5.		✓	5.	5.
6.		✓	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 9

TESTER Miller / Cook / 1 Unit

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	CALORIMETRIC TEST: Results
Yes	No	Yes	No		
1.	✓	1.	✓	1.	1.
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

N/g

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 10

TESTER Miller / Cook / Wright

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			neg
1.	✓	1.		1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 11

TESTER Miller / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 12

TESTER Miller / Cook / Schmidt

FRICTION TEST: / IMPACT TEST: DEPTH

CALORIMETRIC TEST:
Results

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH	CALORIMETRIC TEST: Results
1.		✓			1.	1. Neg
2.		✓		✓	2.	2.
3.		✓		✓	3.	3.
4.		✓		✓	4.	4.
5.		✓		✓	5.	5.
6.		✓		✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 13

TESTER Miller / Cook / Schmit

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 14

TESTER Miller / Cook / Wright

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	No		
1.		✓	1.	1.
2.		✓	2.	2.
3.		✓	3.	3.
4.		✓	4.	4.
5.		✓	5.	5.
6.		✓	6.	6.

CALORIMETRIC TEST:
Results

NEG

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 15

TESTER Miller / Cook / Wright

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

CALORIMETRIC TEST:
Results

1. NR
2.
3.
4.
5.
6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 16

TESTER Miller / Cook / Wright

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.		1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 17

TESTER Miller / Cook / [illegible]

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. 1.
2. 2.
3. 3.
4. 4.
5. 5.
6. 6.

CALORIMETRIC TEST:

Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE,
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 18

TESTER Miller / Cook / Schmidt

FRICTION TEST:

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: DEPTH

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST:
Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 19

TESTER Miller / Cook / Lehnert

FRICTION TEST:

	Reactive Yes	No
1.		✓
2.	✓	
3.	✓	
4.	✓	
5.	✓	
6.	✓	

IMPACT TEST:

	Reactive Yes	No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 20 55

TESTER Miller / Cook / Wright

FRICTION TEST: / IMPACT TEST: DEPTH

CALORIMETRIC TEST:
Results
Neg

	Reactive Yes	Reactive No		
1.		✓	1.	1.
2.		✓	2.	2.
3.		✓	3.	3.
4.		✓	4.	4.
5.		✓	5.	5.
6.		✓	6.	6.

	Reactive Yes	Reactive No
1.		
2.		/
3.		/
4.		/
5.		/
6.		/

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# 21 SS

Miller / FRICTION TEST: Reactive Yes	No	cook / IMPACT TEST: Reactive Yes	No	D Zhrpt DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# 22 55

Miller / Cook / S Hunt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Neg
1.	/ ✓	1.	/	1.	1.	
2.	✓	2.	/	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	/	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
~~SS--SUBSURFACE~~

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# 23 55

Miller / Cook / Schmidt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# 2455

Miller / Cook / Schmit

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 25

TESTER Miller / Cook / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 26

TESTER Miller / Cook / 1 Asst

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	CALORIMETRIC TEST: Results
	Yes	No	Yes	No		
1.		✓		✓	1.	1. Yes
2.		✓		/	2.	2.
3.		✓		/	3.	3.
4.		✓		/	4.	4.
5.		✓		/	5.	5.
6.		✓		/	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 27

TESTER Miller / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	Neg
2.	✓	2.	✓	2.	
3.	✓	3.	✓	3.	
4.	✓	4.	✓	4.	
5.	✓	5.	✓	5.	
6.	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 28

TESTER Miller / Cook / Shumpt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓	1.		1.	1.	Neg
2.		✓	2.	✓	2.	2.	
3.		✓	3.	✓	3.	3.	
4.		✓	4.	✓	4.	4.	
5.		✓	5.	✓	5.	5.	
6.		✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# 5529

FRICTION TEST: Miller / Reactive Yes	No	IMPACT TEST: Cook / Reactive Yes	No	DEPTH S 2 hrs	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 30

FRICTION TEST: Miller / Reactive Yes	No	IMPACT TEST: Cook / Reactive Yes	No	DEPTH S Shrpt		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS31

Miller / Cook / Short

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes	No	Yes	No			Neg
1.		✓		✓	1.	1.	
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 32

Miller / Cook / 12hrt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# 5533

FRICTION TEST: Miller	Reactive Yes	Reactive No	IMPACT TEST: Cook	Reactive Yes	Reactive No	DEPTH	CALORIMETRIC TEST: Results
1.		✓	1.		✓	1.	Neg
2.		✓	2.		✓	2.	
3.		✓	3.		✓	3.	
4.		✓	4.		✓	4.	
5.		✓	5.		✓	5.	
6.		✓	6.		✓	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 34

Miller / FRICTION TEST: Reactive Yes	No	Cook / IMPACT TEST: Reactive Yes	No	S Zhuyt DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# 5535

Miller / Cook / S 2hrit

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS36

Miller / Cook / D Hoyt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	/	1.	1.	Neg
2.	✓	2.	/	2.	2.	
3.	✓	3.	/	3.	3.	
4.	✓	4.	/	4.	4.	
5.	✓	5.	/	5.	5.	
6.	✓	6.	/	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 37

Miller / FRICTION TEST: Reactive Yes	No	Cook / IMPACT TEST: Reactive Yes	No	S Zhrpt DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	/	1.	1. Neg
2.	✓	2.	/	2.	2.
3.	✓	3.	/	3.	3.
4.	✓	4.	/	4.	4.
5.	✓	5.	/	5.	5.
6.	✓	6.	/	6.	6.

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 38

FRICTION TEST: Miller / Reactive Yes	No	IMPACT TEST: Cook / Reactive Yes	No	DEPTH Schrift		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 39

FRICTION TEST: Miller / Reactive Yes	No	IMPACT TEST: Cook / Reactive Yes	No	DEPTH S Shrept		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS40

FRICTION TEST: Miller		IMPACT TEST: Cook		DEPTH Shrt		CALORIMETRIC TEST:
	Reactive		Reactive			Results
	Yes	No	Yes	No		
1.		✓	1.	/	1.	1. Neg
2.		✓	2.	/	2.	2.
3.		✓	3.	/	3.	3.
4.		✓	4.	/	4.	4.
5.		✓	5.	/	5.	5.
6.		✓	6.	/	6.	6.

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 41

Miller / Cook / 0 2 ft

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 42

Miller / Cook / S Shrupt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS43

FRICTION TEST: Miller / Reactive Yes	No	IMPACT TEST: Cook / Reactive Yes	No	DEPTH S Thorpe		CALORIMETRIC TEST: Results Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 44

Miller / Cook / D Zhuri

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Neg
1.	✓	1.	/	1.	1.	
2.	✓	2.	/	2.	2.	
3.	✓	3.	/	3.	3.	
4.	✓	4.	/	4.	4.	
5.	✓	5.	/	5.	5.	
6.	✓	6.	/	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 45

FRICTION TEST: Miller ✓ Reactive		IMPACT TEST: Cook ✓ Reactive		DEPTH & Knight		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 46

Miller / Cook / 3 Shot

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9996 SAMPLE NO# SS 47

Miller / Cook / 2 foot

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓		✓	1.	1.	Neg
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS48

Miller / Cook / D Hurst

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/9/96 SAMPLE NO# SS 49

TESTER Miller / Cook / Shupt

FRICTION TEST:	Reactive Yes	Reactive No	IMPACT TEST:	DEPTH	CALORIMETRIC TEST: Results
1.		✓	1.	1.	Neg
2.		✓	2.	2.	
3.		✓	3.	3.	
4.		✓	4.	4.	
5.		✓	5.	5.	
6.		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 50

FRICTION TEST: Cook / Reactive Yes	No	IMPACT TEST: miller / Reactive Yes	No	DEPTH s 2 hrt		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 51

TESTER Cook / miller / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1. Neg
2.	✓	2.	✓	2.	2.
3.	✓	3.	✓	3.	3.
4.	✓	4.	✓	4.	4.
5.	✓	5.	✓	5.	5.
6.	✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 52

TESTER Cook / miller / [illegible]

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓	1.	✓	1.	1.	Neg
2.		✓	2.	✓	2.	2.	
3.		✓	3.	✓	3.	3.	
4.		✓	4.	✓	4.	4.	
5.		✓	5.	✓	5.	5.	
6.		✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 53

TESTER Cook / Miller / J Skupt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	Neg
2.	✓	2.	✓	2.	
3.	✓	3.	✓	3.	
4.	✓	4.	✓	4.	
5.	✓	5.	✓	5.	
6.	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 54

TESTER Cook / Miller / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 55

TESTER Cook/ miller/ [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	Neg
2.	✓	2.	✓	2.	
3.	✓	3.	✓	3.	
4.	✓	4.	✓	4.	
5.	✓	5.	✓	5.	
6.	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 56

TESTER Cook / miller / Schaft

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes	No	Yes	No		
1.		✓		✓	1.	1.
2.		✓		✓	2.	2.
3.		✓		✓	3.	3.
4.		✓		✓	4.	4.
5.		✓		✓	5.	5.
6.		✓		✓	6.	6.

CALORIMETRIC TEST:
Results
Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 57

TESTER Cook / Miller / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	Neg
2.	✓	2.	✓	2.	
3.	✓	3.	✓	3.	
4.	✓	4.	✓	4.	
5.	✓	5.	✓	5.	
6.	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 58

TESTER Cook / Miller / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 59

TESTER Cook / Miller / Schmidt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 60

TESTER Cook / miller / schopt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 61

TESTER Cook / miller / short

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 62

TESTER Cook / miller / s shrut

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9 10 96 SAMPLE NO# SS 63

TESTER Cook / miller / schmidt

FRICTION TEST: IMPACT TEST: DEPTH CALORIMETRIC TEST:

	Reactive Yes	Reactive No			Results
1.		✓	1. ✓	1.	Neg
2.		✓	2. ✓	2.	
3.		✓	3. ✓	3.	
4.		✓	4. ✓	4.	
5.		✓	5. ✓	5.	
6.		✓	6. ✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 64

TESTER Cook / Miller / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9 10-96 SAMPLE NO# SS 65

TESTER Cook / Miller / Schmidt

FRICTION TEST: / IMPACT TEST: DEPTH

CALORIMETRIC TEST:

	Reactive Yes	Reactive No			Results
1.		✓	1.	1.	Neg
2.		✓	2.	2.	
3.		✓	3.	3.	
4.		✓	4.	4.	
5.		✓	5.	5.	
6.		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

~~S--SURFACE~~
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 66

TESTER Cook / miller / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	Neg
2.	✓	2.	✓	2.	
3.	✓	3.	✓	3.	
4.	✓	4.	✓	4.	
5.	✓	5.	✓	5.	
6.	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 67

TESTER Cook / Miller / Schmidt

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	✓	1.	1.	Neg
2.	/	2.	✓	2.	2.	
3.	/	3.	✓	3.	3.	
4.	/	4.	✓	4.	4.	
5.	/	5.	✓	5.	5.	
6.	/	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 68

TESTER Cook / miller / S Shupt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	Neg
2.	✓	2.	✓	2.	
3.	✓	3.	✓	3.	
4.	✓	4.	✓	4.	
5.	✓	5.	✓	5.	
6.	✓	6.	✓	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 69

TESTER Cook / miller / s zbut

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			
1.	/	1.	✓	1.	1.	Neg
2.	/	2.	✓	2.	2.	
3.	/	3.	✓	3.	3.	
4.	/	4.	✓	4.	4.	
5.	/	5.	✓	5.	5.	
6.	/	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 70

TESTER Cook / miller / s shrupt

FRICTION TEST: / IMPACT TEST: DEPTH

CALORIMETRIC TEST: Results Neg

	Reactive Yes	Reactive No	Reactive Yes	Reactive No		
1.		✓	1.	✓	1.	1.
2.		✓	2.	✓	2.	2.
3.		✓	3.	✓	3.	3.
4.		✓	4.	✓	4.	4.
5.		✓	5.	✓	5.	5.
6.		✓	6.	✓	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 71

TESTER Cook Miller / Schmit

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 72

TESTER Cook / Miller / Shupt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Neg
1.	✓	1.	✓	1.	1.	
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 73

TESTER Cook / miller / Shmyd

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 74

TESTER Cook / miller / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Yes
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 75

TESTER Cook / miller / S Zhurt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 76

FRICTION TEST: Cook	Reactive Yes	Reactive No	IMPACT TEST: Miller	Reactive Yes	Reactive No	DEPTH S Shrift		CALORIMETRIC TEST: Results
1.		✓	1.		✓	1.	1.	Neg
2.		✓	2.		✓	2.	2.	
3.		✓	3.		✓	3.	3.	
4.		✓	4.		✓	4.	4.	
5.		✓	5.		✓	5.	5.	
6.		✓	6.		✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

~~S--SURFACE~~
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 77

Cook / miller / Schutt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.		1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 78

Cook / miller / S Hunt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	neg
2. ✓		2. ✓		2.	2.	
3. ✓		3. ✓		3.	3.	
4. ✓		4. ✓		4.	4.	
5. ✓		5. ✓		5.	5.	
6. ✓		6. ✓		6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 79

Cook / miller / S Shrut

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 80

Cook / miller / D Hunt

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 81

FRICTION TEST: Cook		IMPACT TEST: Miller		DEPTH J Shrut		CALORIMETRIC TEST: Results
Reactive Yes	No	Reactive Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 82

Cook / miller / J Zhang

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9 10 96 SAMPLE NO# 83

Cook / miller / S Hunt

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 84

FRICTION TEST: Cook / Reactive Yes	No	IMPACT TEST: miller / Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 85

Cook / Miller / S Thrupt

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 86

FRICTION TEST: Cook ✓ Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Miller ✓ Reactive Yes	IMPACT TEST: Reactive No	DEPTH Schmidt		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 87

Cook / FRICTION TEST: Reactive Yes	No	miller / IMPACT TEST: Reactive Yes	No	s shut DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 88

FRICTION TEST: Cook

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

IMPACT TEST: Miller

	Reactive Yes	Reactive No
1.		✓
2.		✓
3.		✓
4.		✓
5.		✓
6.		✓

DEPTH

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

CALORIMETRIC TEST: Results

Neg

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 89

Cook / miller / J Shupe

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 90

Cook / FRICTION TEST: Reactive Yes	No	miller / IMPACT TEST: Reactive Yes	No	S Shrift DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 91

Cook / miller / 2 sheet

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 92

Cook / FRICTION TEST: Reactive Yes No	miller / IMPACT TEST: Reactive Yes No	S Shrupt DEPTH	CALORIMETRIC TEST: Results
1. ✓	1. ✓	1.	1. Neg
2. ✓	2. ✓	2.	2.
3. ✓	3. ✓	3.	3.
4. ✓	4. ✓	4.	4.
5. ✓	5. ✓	5.	5.
6. ✓	6. ✓	6.	6.

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 93

Cook / FRICTION TEST: Reactive Yes	No	miller / IMPACT TEST: Reactive Yes	No	S Hoist / DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 94

FRICTION TEST: Cook Reactive Yes	No	IMPACT TEST: miller Reactive Yes	No	DEPTH S2 Kept		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 95

Cook / miller / Schut

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

TESTER

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 96

Cook / miller / Schmidt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.		1.	/	1.	1.	Neg
2.	/	2.	/	2.	2.	
3.	/	3.	/	3.	3.	
4.	/	4.	/	4.	4.	
5.	/	5.	/	5.	5.	
6.	/	6.	/	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# 97

Cook / Miller / Schmidt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	/	1.	1.	Neg
2.	/	2.	/	2.	2.	
3.	/	3.	/	3.	3.	
4.	/	4.	/	4.	4.	
5.	/	5.	/	5.	5.	
6.	/	6.	/	6.	6.	

TESTER _____

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/10/96 SAMPLE NO# SS 98

TESTER Cook / miller / schmidt

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes	No	Yes	No		
1.		✓		✓	1.	1.
2.		✓		✓	2.	2.
3.		✓		✓	3.	3.
4.		✓		✓	4.	4.
5.		✓		✓	5.	5.
6.		✓		✓	6.	6.

CALORIMETRIC TEST:
Results
neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/12/96 SAMPLE NO# SS 99

TESTER Cook / Miller / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/12/96 SAMPLE NO# SS-100

TESTER Cook / Miller / J. Shupt

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		✓		✓	1.	1.	Neg
2.		✓		✓	2.	2.	
3.		✓		✓	3.	3.	
4.		✓		✓	4.	4.	
5.		✓		✓	5.	5.	
6.		✓		✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/12/96 SAMPLE NO# SS 101

TESTER Cook / Miller / Shut

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/12/96 SAMPLE NO# SS 102

TESTER Cook / Miller / Schmidt

FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/12/96 SAMPLE NO# SS 103

TESTER Cook / Miller

FRICTION TEST: / IMPACT TEST: DEPTH

	Reactive Yes	Reactive No		
1.		✓	1.	1.
2.		✓	2.	2.
3.		✓	3.	3.
4.		✓	4.	4.
5.		✓	5.	5.
6.		✓	6.	6.

CALORIMETRIC TEST:
Results
.129

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/12/96 SAMPLE NO# SS 104

TESTER COOK / Miller / Shut

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			Trace
1.	✓	1.	✓	1.	1.	
2.	/	2.	✓	2.	2.	
3.	/	3.	✓	3.	3.	
4.	/	4.	✓	4.	4.	
5.	/	5.	✓	5.	5.	
6.	/	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/12/96 SAMPLE NO# SS 105

TESTER Cook / Miller / Schrot

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU 48 DATE 9/12/96 SAMPLE NO# SS 106

TESTER Cook / Miller / Schmidt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	✓	1.	✓	1.	1.	Neg
2.	✓	2.	✓	2.	2.	
3.	✓	3.	✓	3.	3.	
4.	✓	4.	✓	4.	4.	
5.	✓	5.	✓	5.	5.	
6.	✓	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

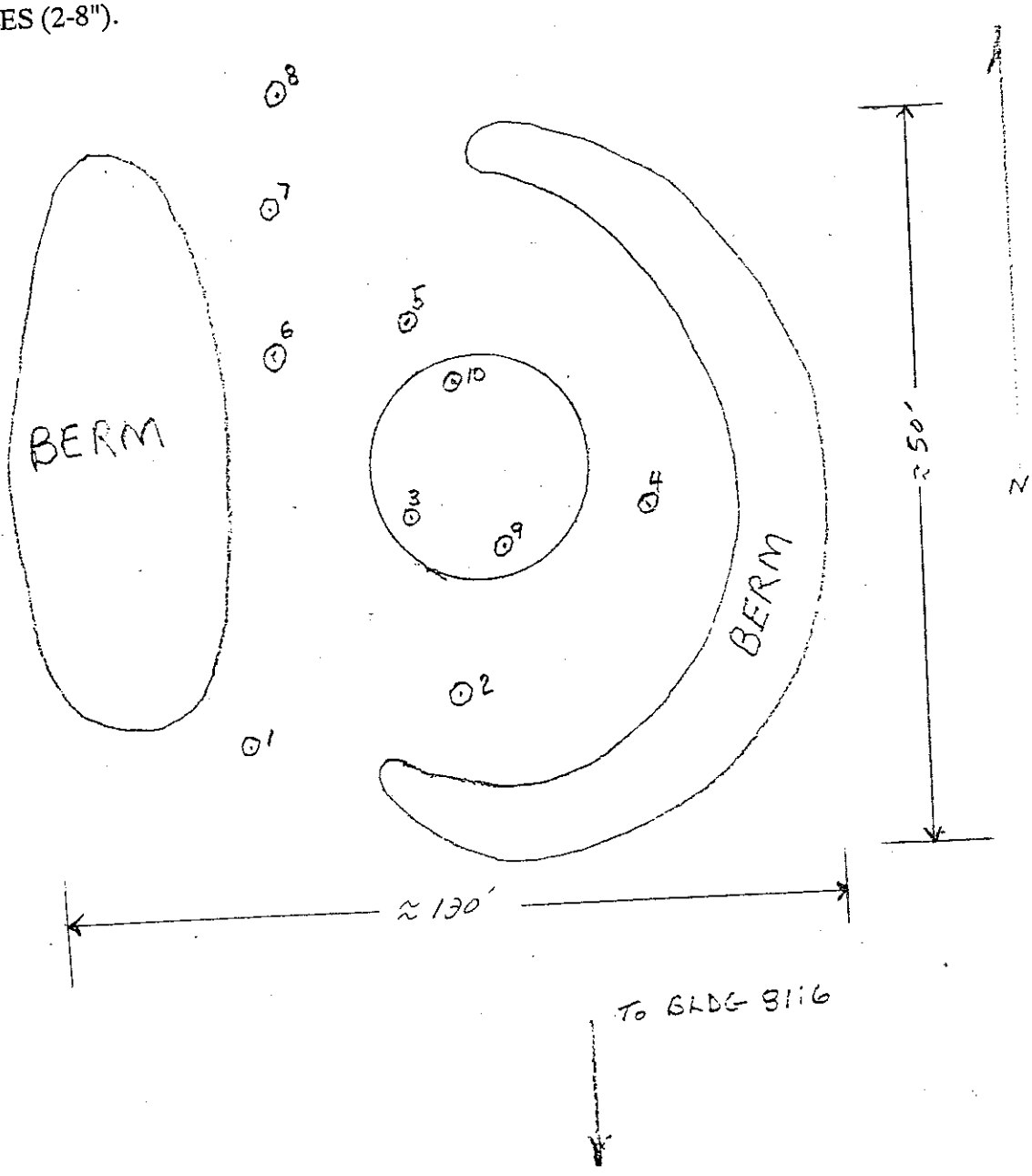
S--SURFACE
SS--SUBSURFACE

APPENDIX S

AOC C - OPEN DETONATION PIT

AOC-C

DETONATION TEST PIT, LOCATED APPROXIMATELY 30 FEET NORTHEAST OF FACILITY BLDG 8116. TOOK 8 SURFACE SAMPLES (0-2") AND 10 SUBSURFACE SAMPLES (2-8").



SUMMARY OF ACTIVITIES FOR AOC-C

The implementation of the ICM work plan for AOC-C consisted of taking eight surface (0-2") and 10 subsurface (2-8") samples (see map). Samples were collected from between two berms that surround the detonation test pit. Two additional subsurface samples (9,10) were collected in what appeared to be the base of a tank or storage bin. All samples tested negative for explosives using all three test methods. Both surface and subsurface samples were run as composites on the calorimeter. Subsurface samples are identified by an "A" after the number in the data sheets.





UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-14-96	AOC-CS	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE

RDX=

PETN=

LA= LEAD AZIDE

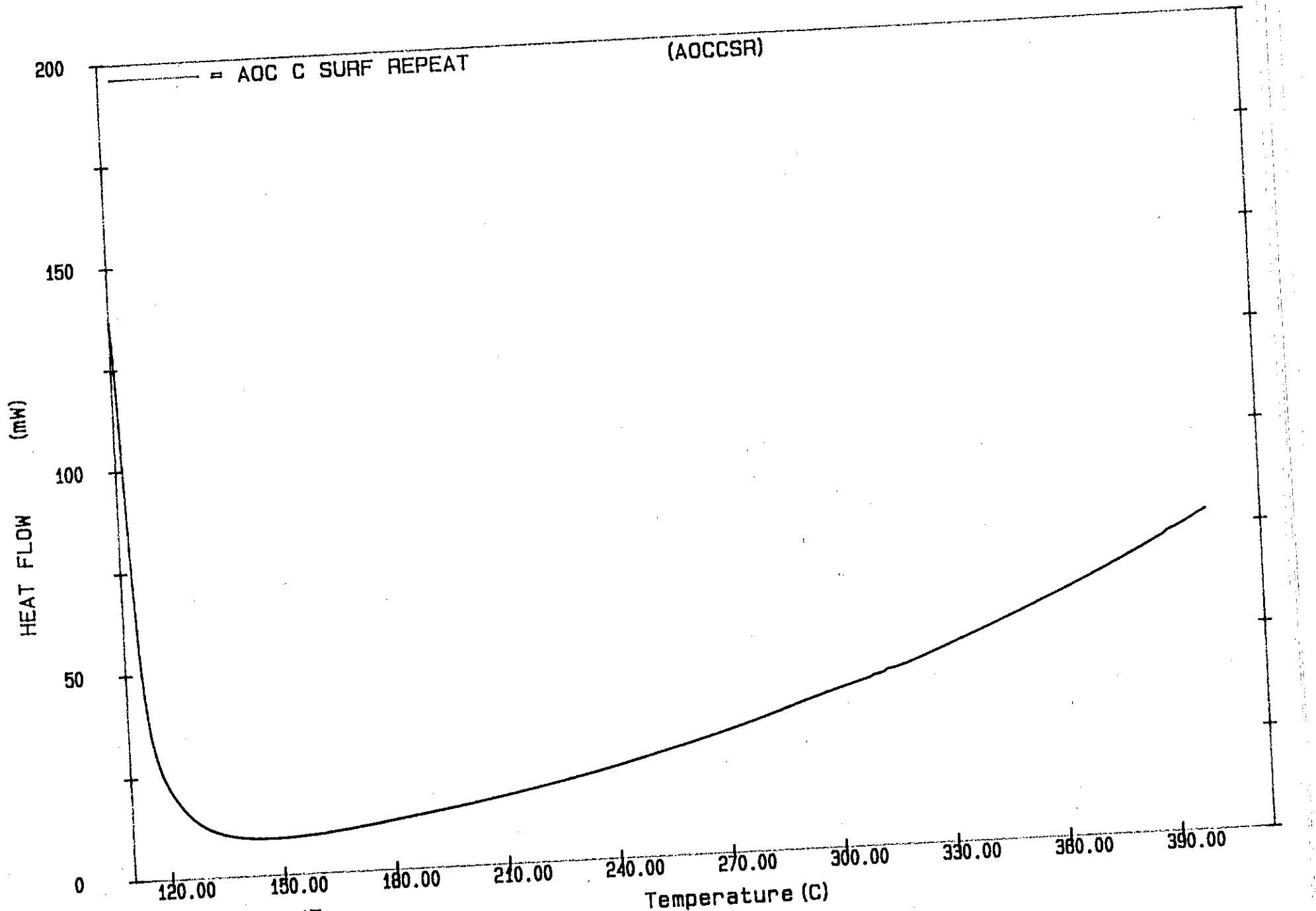
LS= LEAD STYPHYNATE

TET= TETRYL

DDNP= DIAZODINITROPHENOL

Y= YES

N= N0



Date: Jul 14, 1996 4:47pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: AOCCSR ST 8-20-96

TYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-C DATE 8/9/96 SAMPLE NO# SC-1

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

TESTER S K Schucker Layer / S. Thrist

Comments: 4000 gR Test Weight FOR FRICTION Test
IMPACT TEST WEIGHT 1 KG at 100 CM

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-C DATE 8/9/96 SAMPLE NO# SC-2

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

TESTER ~~BK~~ Schucker Tego / S. Thrift

Comments:
4000 gram test weights Friction
1 KG WEIGHT @ 100 CM

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC DATE 8/9/96 SAMPLE NO# SC-3

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

TESTER S K Schucker Dyno / STMT

Comments:
4000 gram test weight friction
1 KG @ 100 CM

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-C DATE 8/9/96 SAMPLE NO# SC-4

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes / No		Yes / No			
1.	X	1.	X	1.	1.	Comp Wes
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

TESTER BK Schucker Lynn Shirt

Comments:
4000 gram test weight friction
1 KG @ 100 CM

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-C DATE 8/9/96 SAMPLE NO# SC-5

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

TESTER S.K. Schucker Tyson / S. Hirst

Comments:
4000 gram test weight friction
1 KG @ 100 CM

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-C DATE 8/9/96 SAMPLE NO# SC-6

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp / Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

TESTER R.K. Schucker Tiger / S. Thrift

Comments:
4000 gram test weight friction
1KG @ 100 CM

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-C DATE 8/9 SAMPLE NO# SC-7

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

TESTER [illegible] [illegible] / 5 thrust

Comments:
4000 gram test weight friction
1KG @ 100CM

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-C DATE 8/9 SAMPLE NO# SC-8

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	X	1.	1.	Comp Neg
2.	X	2.	X	2.	2.	
3.	X	3.	X	3.	3.	
4.	X	4.	X	4.	4.	
5.	X	5.	X	5.	5.	
6.	X	6.	X	6.	6.	

TESTER SKI Tyr / S. Hurst

Comments: 4000 grams test weight friction

S--SURFACE
SS--SUBSURFACE

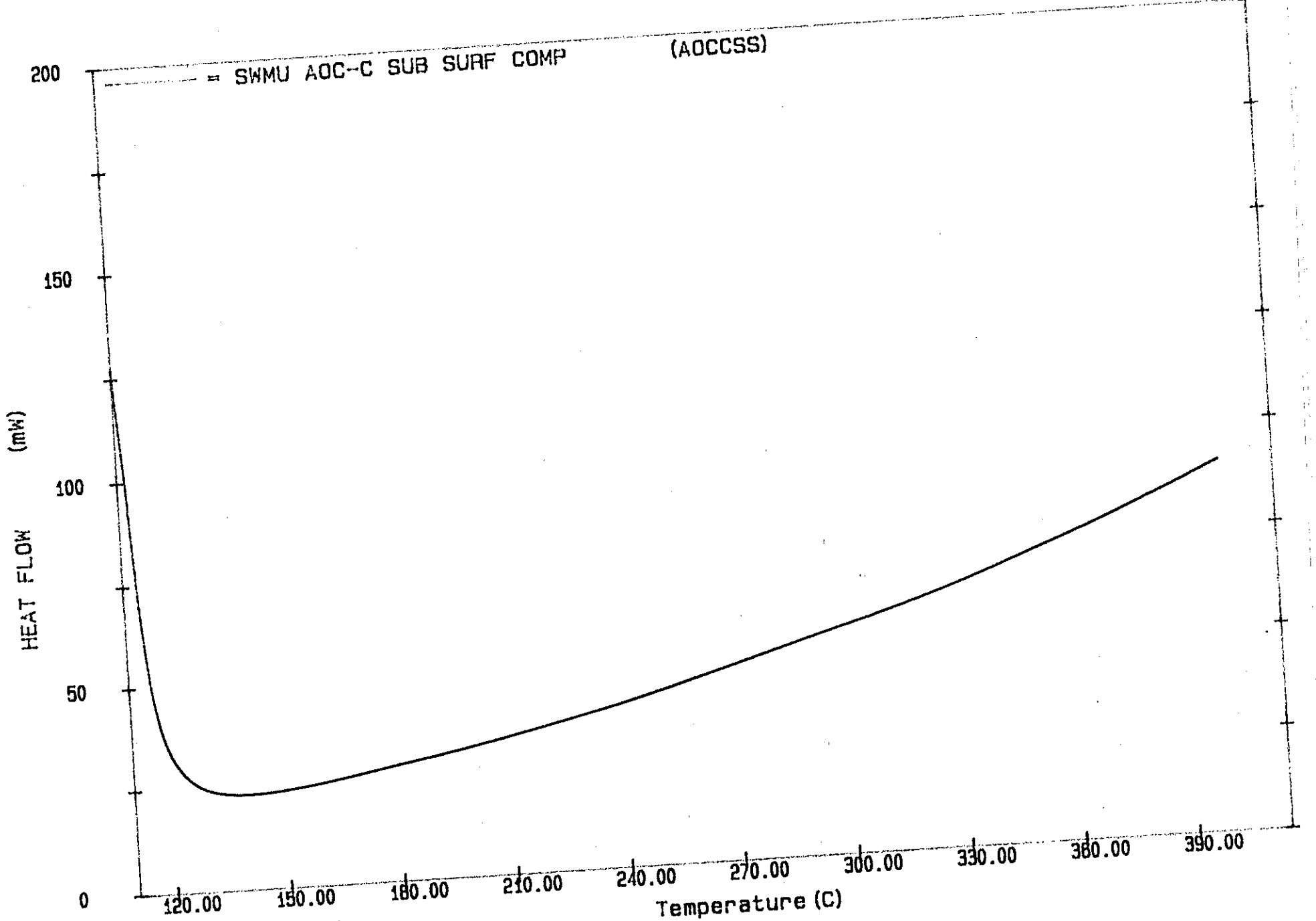
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
		N	N	N	N	N	N	N
8-21-96	SWMU AOC-C SS	N	N					

LEGEND

C=CENTIGRADE		TET=	TETRYL
RDX=		DDNP=	DIAZODINITROPHENOL
PETN=		Y=	YES
LA=	LEAD AZIDE	N=	N0
LS=	LEAD STYPHYNATE		



Date: Jul 15, 1996 10:38p
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: AOCCSS ST 8-21-96

TYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

AOC C

SWMU C DATE 8-14-96 SAMPLE NO# SS 1A

TESTER Ligon / Cook / S Hunt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes / No	Yes	No		
1.		1.	X	1.	1.
2.	/	2.	X	2.	2.
3.	/	3.	X	3.	3.
4.	/	4.	X	4.	4.
5.	/	5.	X	5.	5.
6.	/	6.	X	6.	6.

CALORIMETRIC TEST:
Results
Comp Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU Aoc C DATE 8-14-96 SAMPLE NO# SS 2A

TESTER Ligon / Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	
1.	/	1.	X	1.	1.
2.	/	2.	X	2.	2.
3.	/	3.	X	3.	3.
4.	/	4.	X	4.	4.
5.	/	5.	X	5.	5.
6.	/	6.	X	6.	6.

CALORIMETRIC TEST:
Results
Comp neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

AOC C

SWMU _____ DATE 8-14-96 SAMPLE NO# SS 3A

TESTER Tigon / Cook / S. Wright

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	/	1.	X	1.	1.	
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC C DATE 8-14-96 SAMPLE NO# SS 4A

TESTER Ligon/Cook/J. Thy

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
	Yes / No	Yes / No			
1.	/	X	1.	1.	
2.	/	X	2.	2.	
3.	/	X	3.	3.	
4.	/	X	4.	4.	
5.	/	X	5.	5.	
6.	/	X	6.	6.	

CALORIMETRIC TEST:
Results
Comp neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

AOC C

SWMU _____ DATE 8-14-96 SAMPLE NO# SS 5A

TESTER Tigon / Cook / 8 Unit

FRICTION TEST:

	Reactive Yes	No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

IMPACT TEST:

	Reactive Yes	No
1.		X
2.		X
3.		X
4.		X
5.		X
6.		X

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Comp Wg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC C DATE 8-14-96 SAMPLE NO# SS 6A

TESTER Ligon Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	
1.	/	1.	X	1.	1.
2.	/	2.	X	2.	2.
3.	/	3.	X	3.	3.
4.	/	4.	X	4.	4.
5.	/	5.	X	5.	5.
6.	/	6.	X	6.	6.

CALORIMETRIC TEST:
Results
Comp Ng

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

AOC

SWMU C DATE 8-14-96 SAMPLE NO# SS 7A

TESTER ligon/Cook/[illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	✓	1.	X	1.	1. Comp neg
2.	✓	2.	X	2.	2.
3.	✓	3.	X	3.	3.
4.	✓	4.	X	4.	4.
5.	✓	5.	X	5.	5.
6.	✓	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

AOC C

SWMU _____ DATE 8-14-96 SAMPLE NO# SS 8A

TESTER Ligon/Cook/L. Hyatt

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	/	1.	X	1.	1.	
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

AOC

SWMU C DATE 8-14-96 SAMPLE NO# SS 9A

TESTER Ligon / Cook / S Shrift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	/	1.	X	1.	1. Comp Ng
2.	/	2.	X	2.	2.
3.	/	3.	X	3.	3.
4.	/	4.	X	4.	4.
5.	/	5.	X	5.	5.
6.	/	6.	X	6.	6.

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

AOC

SWMU C DATE 8-14-96 SAMPLE NO# SS 10A

TESTER Ligon/Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	/	1.	X	1.	1.	Comp Neg
2.	/	2.	X	2.	2.	
3.	/	3.	X	3.	3.	
4.	/	4.	X	4.	4.	
5.	/	5.	X	5.	5.	
6.	/	6.	X	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

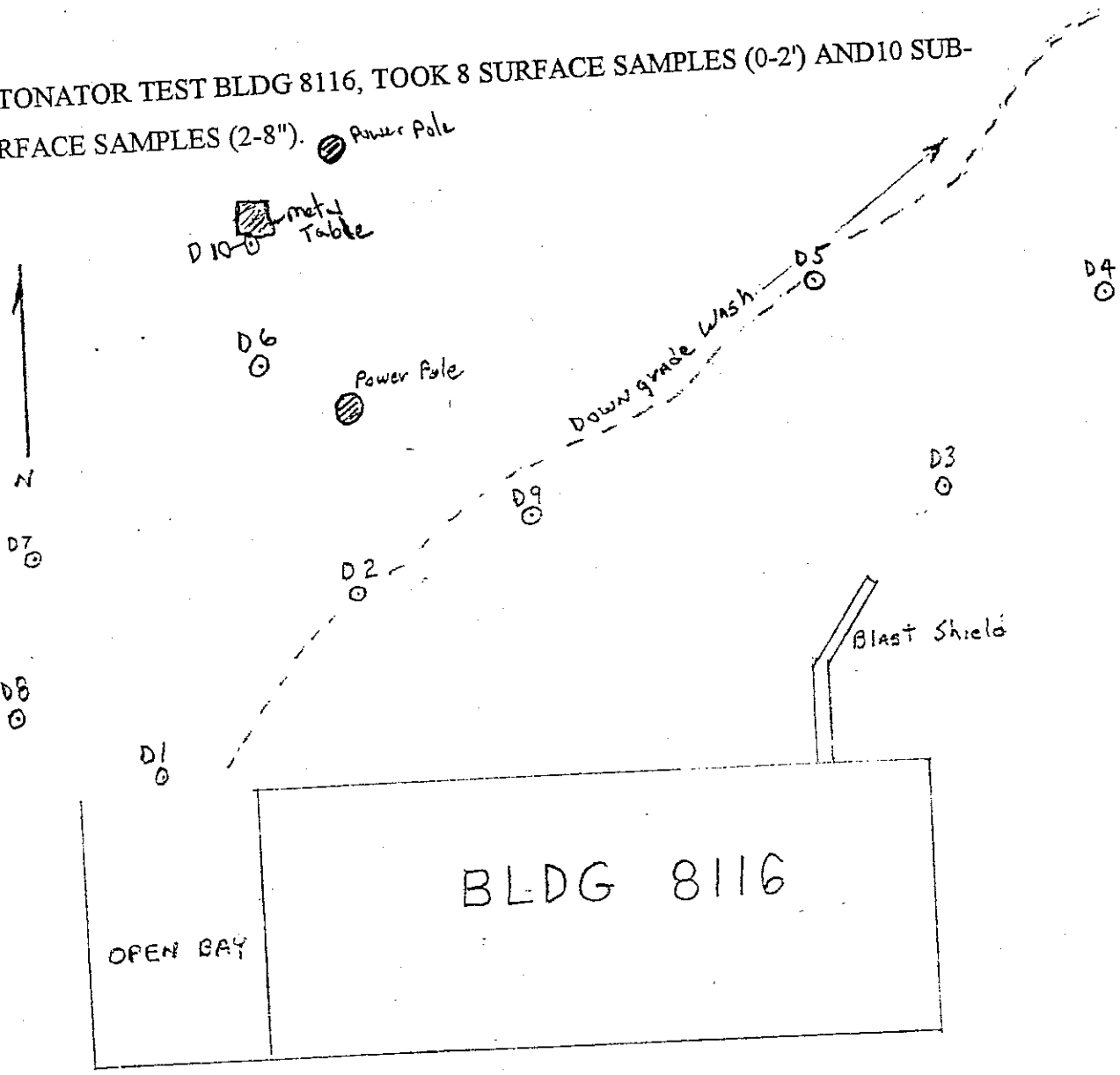
S--SURFACE
SS--SUBSURFACE

APPENDIX T

AOC D - DETONATION TEST BUILDING

SWMU AOC-D

DETONATOR TEST BLDG 8116, TOOK 8 SURFACE SAMPLES (0-2') AND10 SUB-SURFACE SAMPLES (2-8").



Scale ≈ 1" = 10'

SUMMARY OF ACTIVITIES FOR AOC-D

The implementation of the ICM work plan for AOC-D consisted of taking eight surface (0-2") and 10 subsurface (2-8") samples D1-D10 (see map). Samples were collected within a gravel covered area north of facility Building 8116. Debris from detonated explosives was observed throughout the area. D9 was collected along a narrow channel running downgrade of Building 8116 which looked like it had been washed out by rainwater. D10 was collected beneath an old metal table located at the edge of the gravel covered area just before it turns to grass. The purpose of this table is unknown although it is believed that it was used to handle detonators before or after they were tested. All samples tested negative for explosives using all three test methods. Both surface and subsurface samples were run as composites on the calorimeter. Subsurface samples are indicated by an "A" in the data sheets.





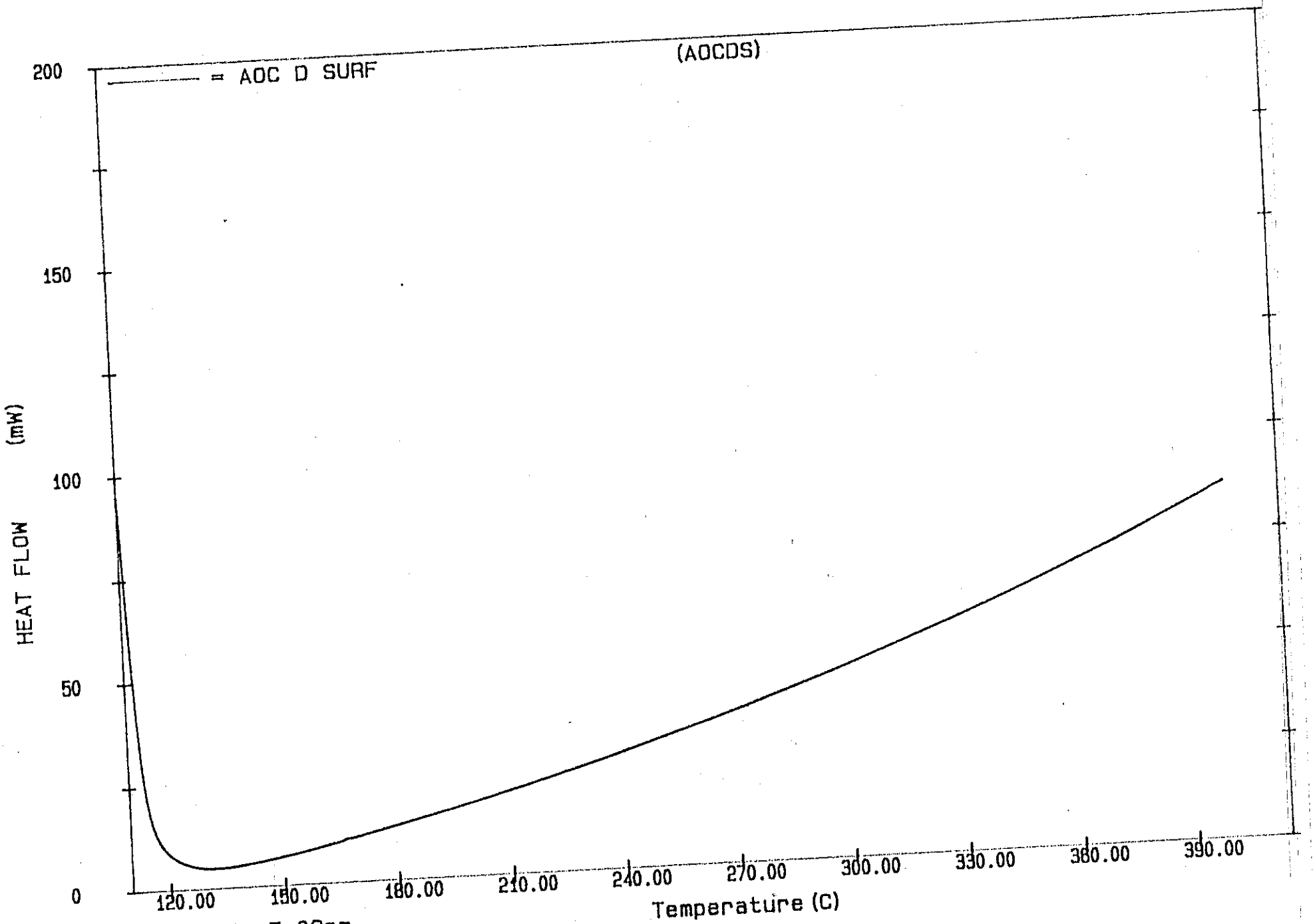
UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-20-96	AOC-D S	N	N	N	N	N	N	N

LEGEND

C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 14, 1996 5:09pm
Scanning Rate: 20.0 C/min
Sample Wt: 0.000 mg Path: UXB\
File: 1: AOCDS ST 8-20-96

DYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/9/96 SAMPLE NO# SD-1

FRICTION TEST:	Reactive Yes	Reactive No	IMPACT TEST:	Reactive Yes	Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X	1.		/	1.	1.	Comp Neg
2.		X	2.		/	2.	2.	
3.		X	3.		/	3.	3.	
4.		X	4.		/	4.	4.	
5.		X	5.		/	5.	5.	
6.		X	6.		/	6.	6.	

TESTER BK Schucker / S. Hunt

Comments:
4000 gram test weight friction
1 Kg weight on Impact test at 100 cm

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/9/96 SAMPLE NO# SD-2

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1.	Comp Neg
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

TESTER [signature] / S. Thrist

Comments:
4000 gram test weight friction
1 Kg weight on Impact test at 100cm

S-SURFACE
SS-SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/9 SAMPLE NO# SD-3

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH	
Yes	No	Yes	No		
1.	X	1.	✓	1.	1.
2.	X	2.	✓	2.	2.
3.	X	3.	✓	3.	3.
4.	X	4.	✓	4.	4.
5.	X	5.	✓	5.	5.
6.	X	6.	✓	6.	6.

CALORIMETRIC TEST: Results

Comp Neg

TESTER SKS /ST

Comments:
4000 gram test weight friction
1 Kg weight on Impact test at 100 cm

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC D DATE 8/9/96 SAMPLE NO# SD-4

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Neg
1.	X	1.	✓	1.	1.	
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

TESTER Cook / Sthist

Comments:
4000gram test weight friction
1Kg weight on Impact Test at 100 CM

(S) SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/9/96 SAMPLE NO# SD-5

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	✓	1.	1.	Comp Neg
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

TESTER [illegible] [illegible]

Comments:
4000 gram test weight friction
1 kg weight on Impact Test from 100 cm

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/9/96 SAMPLE NO# SD-6

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	X	1.	✓	1.	1.	Comp Neg
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

TESTER BKB / S. Hart

Comments:
4000 gram test weight friction
1 Kg weight on Impact Test from 100 cm

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/9/96 SAMPLE NO# SD-7

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			Comp Wg
1.	X	1.	✓	1.	1.	
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

TESTER BKS / S. Thrift

Comments:
4000gram test weight to friction
1 Kg weight from 100 cm on Impact Test

(S)-SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/9 SAMPLE NO# SD-8

FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
Yes	No	Yes	No			
1.	X	1.	✓	1.	1.	Comp No 1
2.	X	2.	✓	2.	2.	
3.	X	3.	✓	3.	3.	
4.	X	4.	✓	4.	4.	
5.	X	5.	✓	5.	5.	
6.	X	6.	✓	6.	6.	

TESTER SKS / S. Hunt

Comments:
4000 gram test weight friction
1 Kg weight from 100 cm on Impact Test

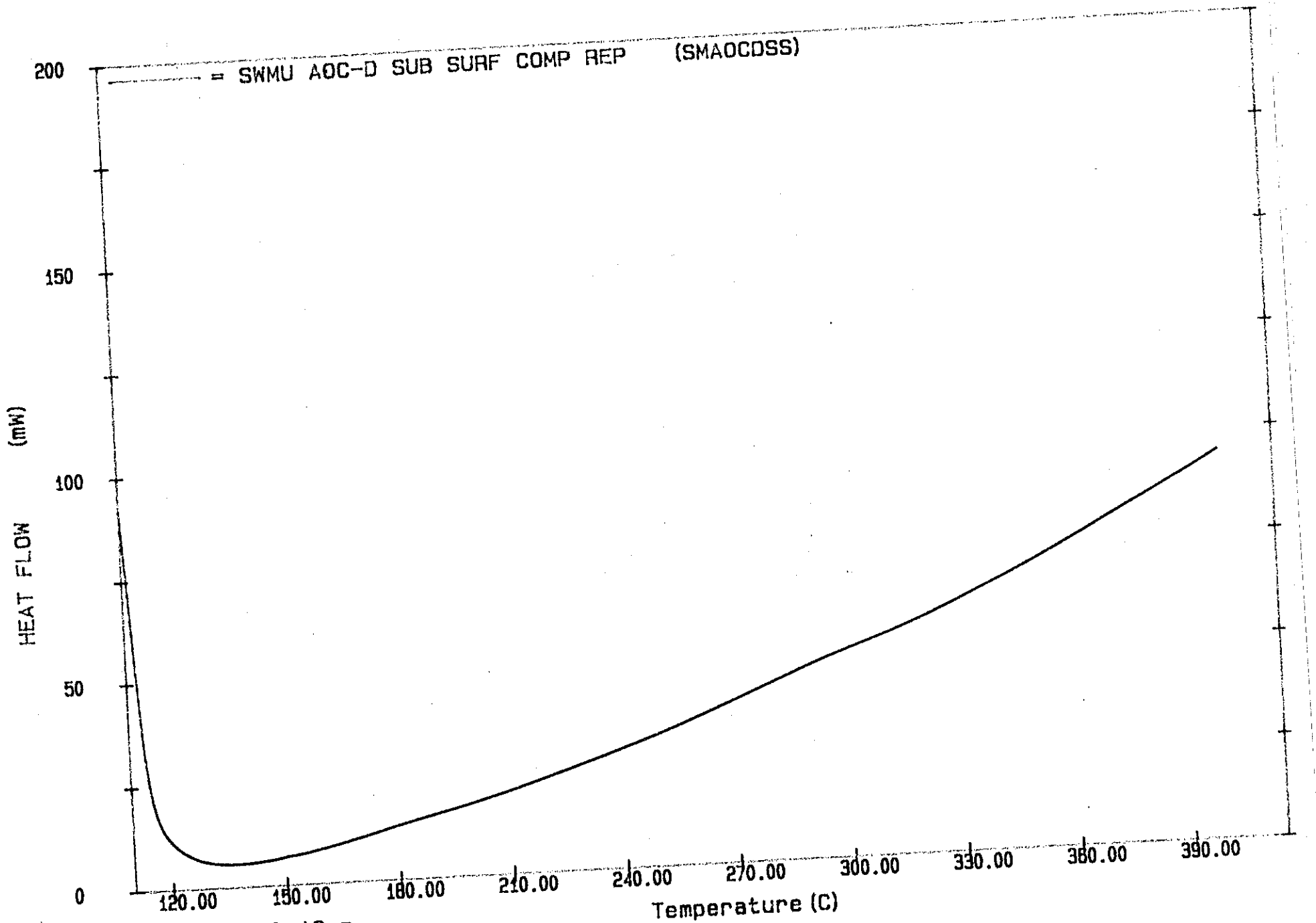
(S)–SURFACE
SS–SUBSURFACE

UXB INTERNATIONAL

PORT EWEN/DYNO-NOBEL EXPLOSIVE SAMPLING CALORMETRIC TESTING

DATE	SAMPLE #	RDX 205C	PETN 141C	LA 327-331C	LS 330C	MF 210C	DDNP 180C	TET 280C
8-21-96	SUMM AOC-D	55						
		N	N	N	N	N	N	N

LEGEND
C=CENTIGRADE
RDX=
PETN=
LA= LEAD AZIDE
LS= LEAD STYPHYNATE
TET= TETRYL
DDNP= DIAZODINITROPHENOL
Y= YES
N= N0



Date: Jul 16, 1996 00: 12am
Scanning Rate: 20.0 C/min
Sampl~ Wt: 0.000 mg Path: UXB\
Fil SMAOCDSS ST 8-21-96

DYNO NOBEL

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC D DATE 8/14/96 SAMPLE NO# SS D-1-A

TESTER Ligon/Cook/ S. [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1.	Comp Neg
2.	X	2.	/	2.	2.	
3.	X	3.	/	3.	3.	
4.	X	4.	/	4.	4.	
5.	X	5.	/	5.	5.	
6.	X	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-10 DATE 8-14-96 SAMPLE NO# SS D-2-A

TESTER Pigon/Cook 1S shift

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1.	Comp Neg
2.	X	2.	/	2.	2.	
3.	X	3.	/	3.	3.	
4.	X	4.	/	4.	4.	
5.	X	5.	/	5.	5.	
6.	X	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/14/96 SAMPLE NO# SS D-3-A

TESTER Ligon/Cook 1st shift

	FRICTION TEST: Reactive		IMPACT TEST: Reactive		DEPTH		CALORIMETRIC TEST: Results
	Yes	No	Yes	No			
1.		X		/	1.	1.	Comp Neg
2.		X		/	2.	2.	
3.		X		/	3.	3.	
4.		X		/	4.	4.	
5.		X		/	5.	5.	
6.		X		/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/14/96 SAMPLE NO# SS D-4-A

TESTER Ligon/Cook / Schmidt

FRICTION TEST:

	Reactive Yes	No
1.		X
2.		X
3.		X
4.		X
5.		X
6.		X

IMPACT TEST:

	Reactive Yes	No
1.		/
2.		/
3.		/
4.		/
5.		/
6.		/

DEPTH

1. _____ 1.
2. _____ 2.
3. _____ 3.
4. _____ 4.
5. _____ 5.
6. _____ 6.

CALORIMETRIC TEST:
Results

Comp Mag

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/14/96 SAMPLE NO# SS D-S-A

TESTER Ligon/Cook/D Shyt

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH	CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1.
2.	X	2.	/	2.	2.
3.	X	3.	/	3.	3.
4.	X	4.	/	4.	4.
5.	X	5.	/	5.	5.
6.	X	6.	/	6.	6.

Comp Reg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8-14-96 SAMPLE NO# SS D-6-A

TESTER Tigon/Cook / [illegible]

FRICTION TEST: Reactive Yes	No	IMPACT TEST: Reactive Yes	No	DEPTH		CALORIMETRIC TEST: Results
1.	X	1.	/	1.	1.	Comp neg
2.	X	2.	/	2.	2.	
3.	X	3.	/	3.	3.	
4.	X	4.	/	4.	4.	
5.	X	5.	/	5.	5.	
6.	X	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/14/96 SAMPLE NO# SS D-7-A

TESTER Ligon/Cook / D. Shut

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH	
1.		X		/	1.	1.
2.		X		/	2.	2.
3.		X		/	3.	3.
4.		X		/	4.	4.
5.		X		/	5.	5.
6.		X		/	6.	6.

CALORIMETRIC TEST:
Results

Comp Neg

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/14/96 SAMPLE NO# SS D-8-A

TESTER Ligon/Cook / Dwyer

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X	1.	/	1.	1.	Comp neg
2.		X	2.	/	2.	2.	
3.		X	3.	/	3.	3.	
4.		X	4.	/	4.	4.	
5.		X	5.	/	5.	5.	
6.		X	6.	/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 3/14/96 SAMPLE NO# SS D-9-A

TESTER Nixon/Cook/Duffy

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X	1.	✓	1.	1.	Comp Hg
2.		X	2.	✓	2.	2.	
3.		X	3.	✓	3.	3.	
4.		X	4.	✓	4.	4.	
5.		X	5.	✓	5.	5.	
6.		X	6.	✓	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST

S--SURFACE
SS--SUBSURFACE

DYNO-NOBEL PORT EWEN LAB SAMPLE REPORTS

ECKENFELDER/UXB INTERNATIONAL

SWMU SOIL SAMPLES DYNO-NOBEL PORT EWEN PLANT NEW YORK

SWMU AOC-D DATE 8/14/96 SAMPLE NO# SS D-10-A

TESTER Ingon / Cook / Schmit

	FRICTION TEST: Reactive Yes	FRICTION TEST: Reactive No	IMPACT TEST: Reactive Yes	IMPACT TEST: Reactive No	DEPTH		CALORIMETRIC TEST: Results
1.		X			1.	1.	Comp Neg
2.		X		/	2.	2.	
3.		X		/	3.	3.	
4.		X		/	4.	4.	
5.		X		/	5.	5.	
6.		X		/	6.	6.	

Comments:
4000 GRAM TEST WEIGHT ON THE FRICTION TEST
1KG WEIGHT AT 100 CENTIMETERS ON THE IMPACT TEST.

S--SURFACE
SS--SUBSURFACE