



December 30, 1974

Mr. Ray R. Krammes
Whittaker, Clark & Daniels, Inc.
1000 Coolidge Street
South Plainfield, New Jersey 07080

Dear Mr. Krammes:

DTA analysis has been completed on your 7 samples of coded talcs as requested by your P. O. NJ 19722. The original thermograms are enclosed.

Conditions under which the samples were run are as follows:

Instrument:	R. L. Stone Co. DTA unit Model LA-XYH
Furnace:	F-1DF
Sample Holder:	11BR2N1Z
Sample Weight:	20 mg
Reference Material:	Alundum
Atmosphere:	Helium, 40 cc/min.
Heating Rate:	24°C/min.
Sensitivity:	150 μ v to approx. 500°C, 40 μ v to approx. 900°C
Temperature Range:	Ambient to 1000°C

Following the guidelines given in the method you sent, we found that the conditions listed above were adequate to obtain a detectability of chrysotile at the 1% level.

Under these conditions the two standard samples show the thermal transitions characteristic of chrysotile, an endotherm at about 650°C and an exotherm at about 820°C. Sample F containing 1% chrysotile exhibits a small but detectable exotherm, and looking at your objective and the thermograms of the remainder of your samples, this detectability is sufficient. Duplicate runs were made on your two standard samples to ensure reproducibility.

**PLAINTIFF'S
EXHIBIT
WCD-206**

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Mr. Ray R. Krammes
Whittaker, Clark & Daniels

-2-

December 30, 1974

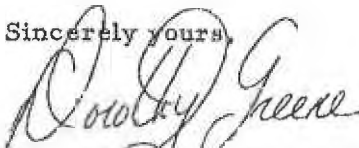
Using your two standard samples as references, the results of the remaining samples are as follows:

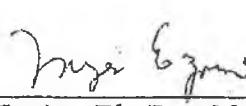
Sample	Dehydroxylation	Recrystallization	Approx. % Chrysotile
	Endotherm	Exotherm	
1% CHRYSTOTILE 2% " F - Standard SALLY	Present	Present	1
H - Standard BETTY	Present	Present	2
D PANSY	Present*	Present*	1
E ROSE	May be present	Not detectable	Less than 1
G ALMA	May be present	Not detectable	Less than 1
I DINAH	May be present	Not detectable	Less than 1
14% TALC J	Not detectable	Not detectable	Less than 1

Where the endotherm is listed as "may be present", this is due to the probable presence of interfering substances which tend to mask a clear endotherm in the desired area. Since both the endotherm and exotherm must be present for chrysotile to be present, then it can be said that at this detectability, assuming no interference, that none or less than 1% chrysotile is present in samples E, G, I and J. Only sample D may have approximately 1% chrysotile, assuming that the peaks involved are not due to other materials present.

If there are any questions concerning these results, please feel free to contact us.

Sincerely yours,


Mrs. Dorothy Greene, Chemist
Analytical Laboratory

Approved: 

Myer Ezrin, Ph.D., Manager
Analytical Department

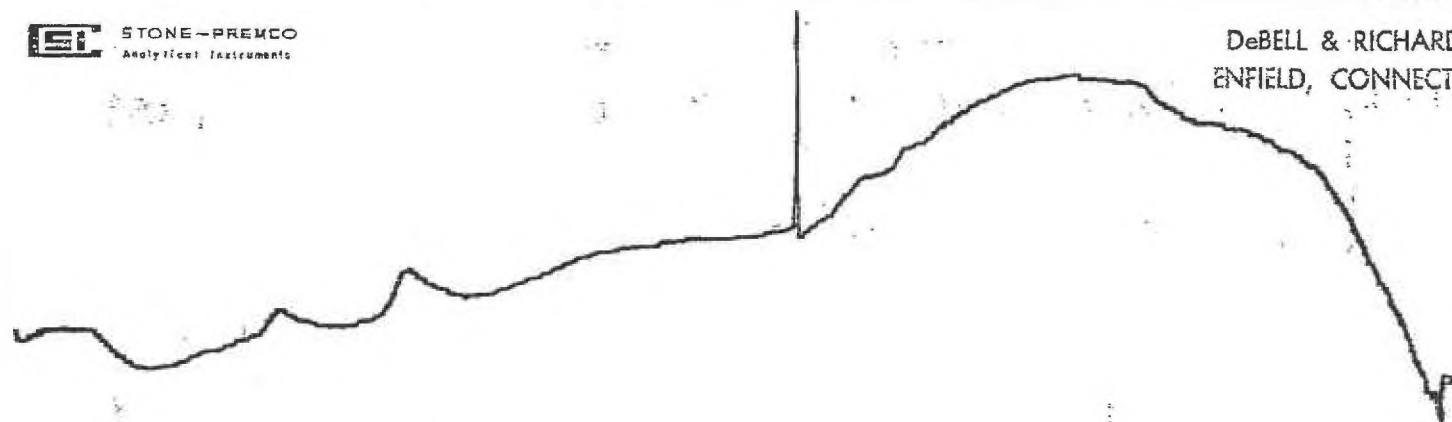
*Assuming no interference

cag
Enclosures

SAMPLE <i>J</i>	WEIGHT <i>202mg</i>	REF. MATL. <i>ALUNDUM</i>	WT. <i>10.0mg</i>	ATMOSPHERE <i>He</i>	PRESSURE <i>Atm</i>
PROGRAM RATE <i>24</i> °C/MIN	Δ T GAIN <i>150 μV to 500°C</i> <i>40 μV to 900°C</i>	SAMPLE HOLDER <i>11BR2 NIZ</i>		GAS FLOW <i>40 cc/min</i>	<i>10 mg ALUNDUM</i> <i>1-Axis T.C.</i>

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141 TALC

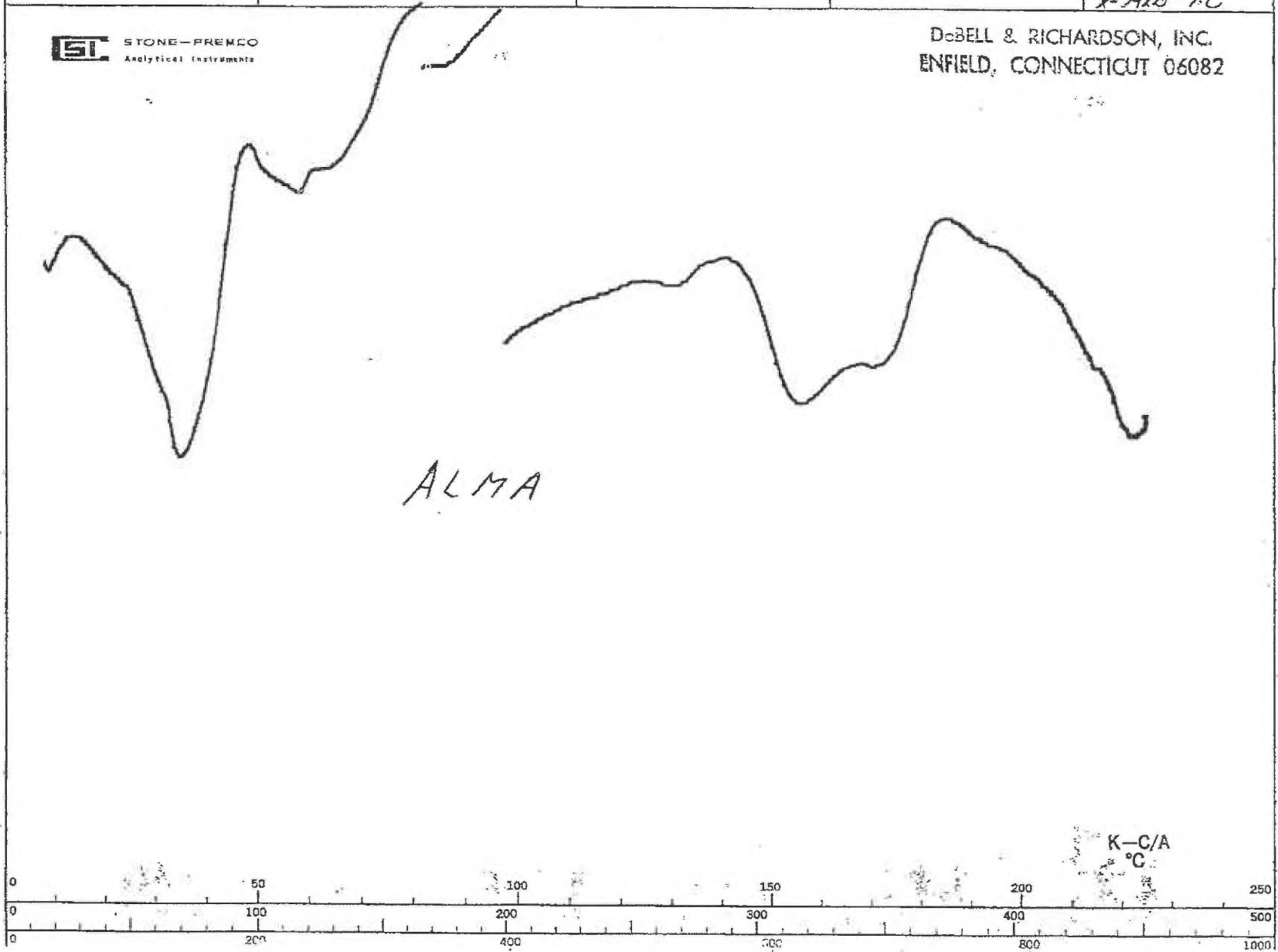
K-C/A
°C



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SAMPLE G	WEIGHT 50.0mg	REF. MATL. ALUNDUM	WT. 100 _μ	ATMOSPHERE He	PRESSURE 17.7		
PROGRAM RATE 24 °C/MIN	ΔT GAIN 40 μV/1000 °C/F	SAMPLE HOLDER 11BR2NIZ		GAS FLOW 40 cc/min 66FH	10 _μ ALUNDUM 2 AXIS T.C		

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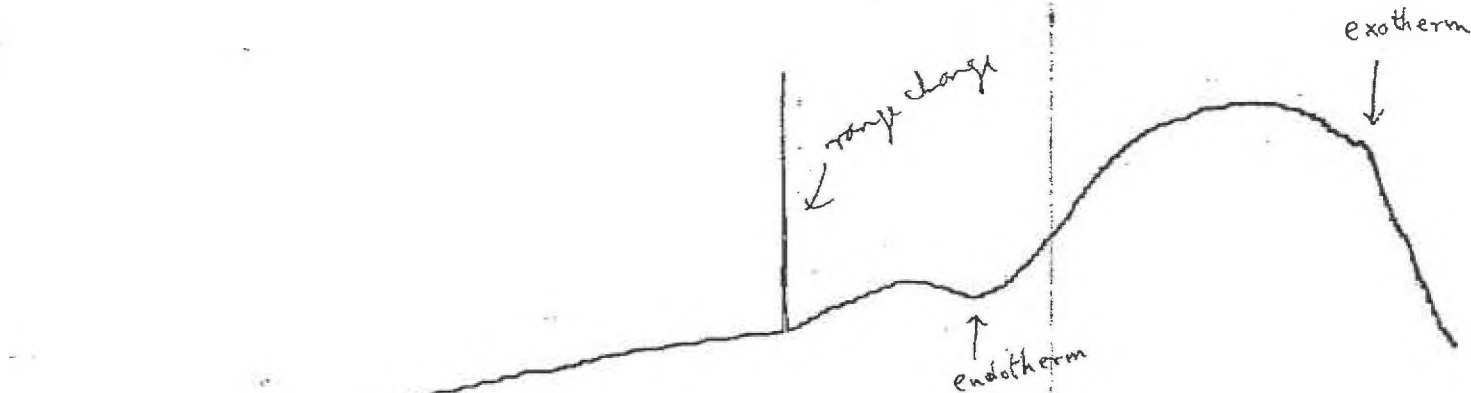
SAMPLE <i>E-1</i>	WEIGHT <i>20.1 mg</i>	REF. MATL. <i>ALUNDUM</i>	WT. <i>10.0 mg</i>	ATMOSPHERE <i>He</i>	PRESSURE <i>Atm</i>
PROGRAM RATE <i>24</i> °C/MIN	Δ T GAIN <i>150 mV to 300°C</i> <i>40 mV to 900°C</i>	SAMPLE HOLDER <i>11BR2N1Z</i>	GAS FLOW <i>40 cc/min</i>	<i>10 mg ALUNDUM</i> <i>X-AXIS T.C.</i>	

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°C

SPIN	F	WEIGHT	20.4 mg	MATL.	ALUMINUM 10.0%	ATMOSPHERE	He	ANALYST	ARM
PROGRAM RATE	24	°C/MIN		Δ T GAIN	150 mV to 500°C 40 mV to 900°C	°C/F		SAMPLE HOLDER	11BR2NIZ
								GAS FLOW	40 cc/min
								SCFH	10 mg ALUMINUM P-Axis T.C.

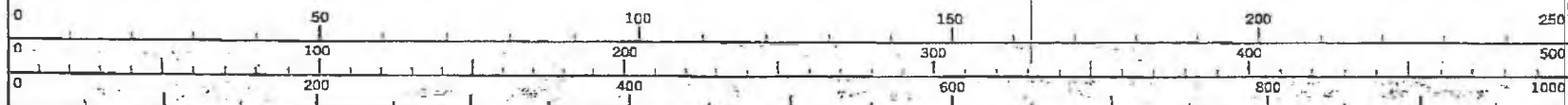
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ANALYTICAL INSTRUMENTS

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SALLY
1% CHRYSOTILE

K-C/A
°C

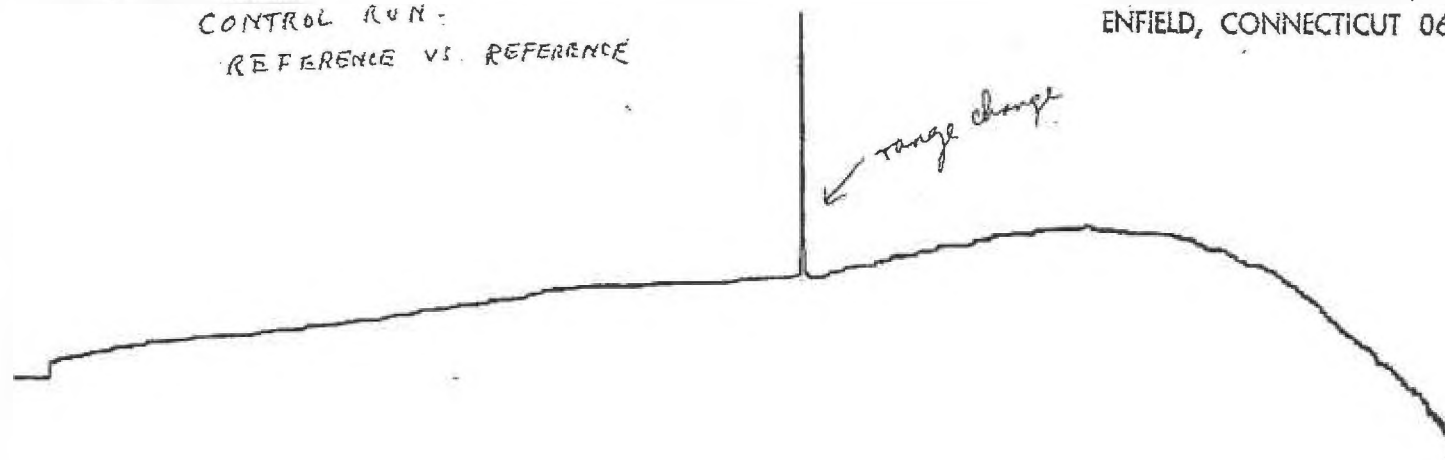


SAMPLE ALUMINUM	WEIGHT 10 mg	REF. MATL. ALUMINUM	WT. 10.0	ATMOSPHERE He	PRESSURE Atm
PROGRAM RATE 24 °C/MIN	Δ T GAIN 150 μV to 500 °C 40 μV to 900 °C	SAMPLE HOLDER 11BR2N1Z	GAS FLOW 40 cc/min	both	10 mg ALUMINUM X-RAY T.C.

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CONTROL RUN:

REFERENCE VS. REFERENCE

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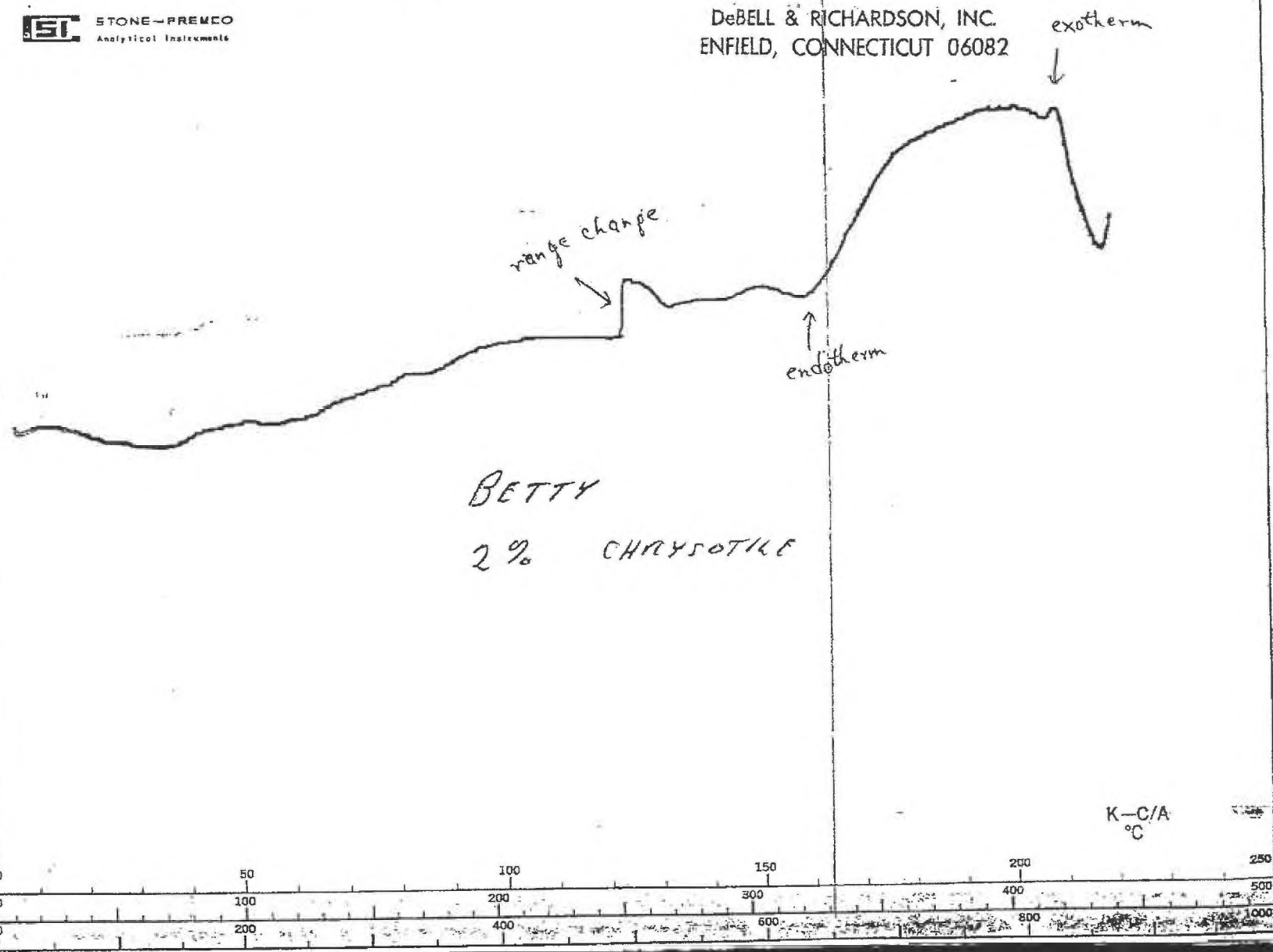
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Sample # H	Weight 20.0 g	Matl. ALUNDUM	10.0	HTA
PROGRAM RATE 24 °C/MIN	ΔT GAIN 150 mV to 500°C 40 mV to 900°C	SAMPLE HOLDER 11BR2N1Z	GAS FLOW 40 cc/min	SCM 10 mg ALUNDUM 1-Axis T.C.

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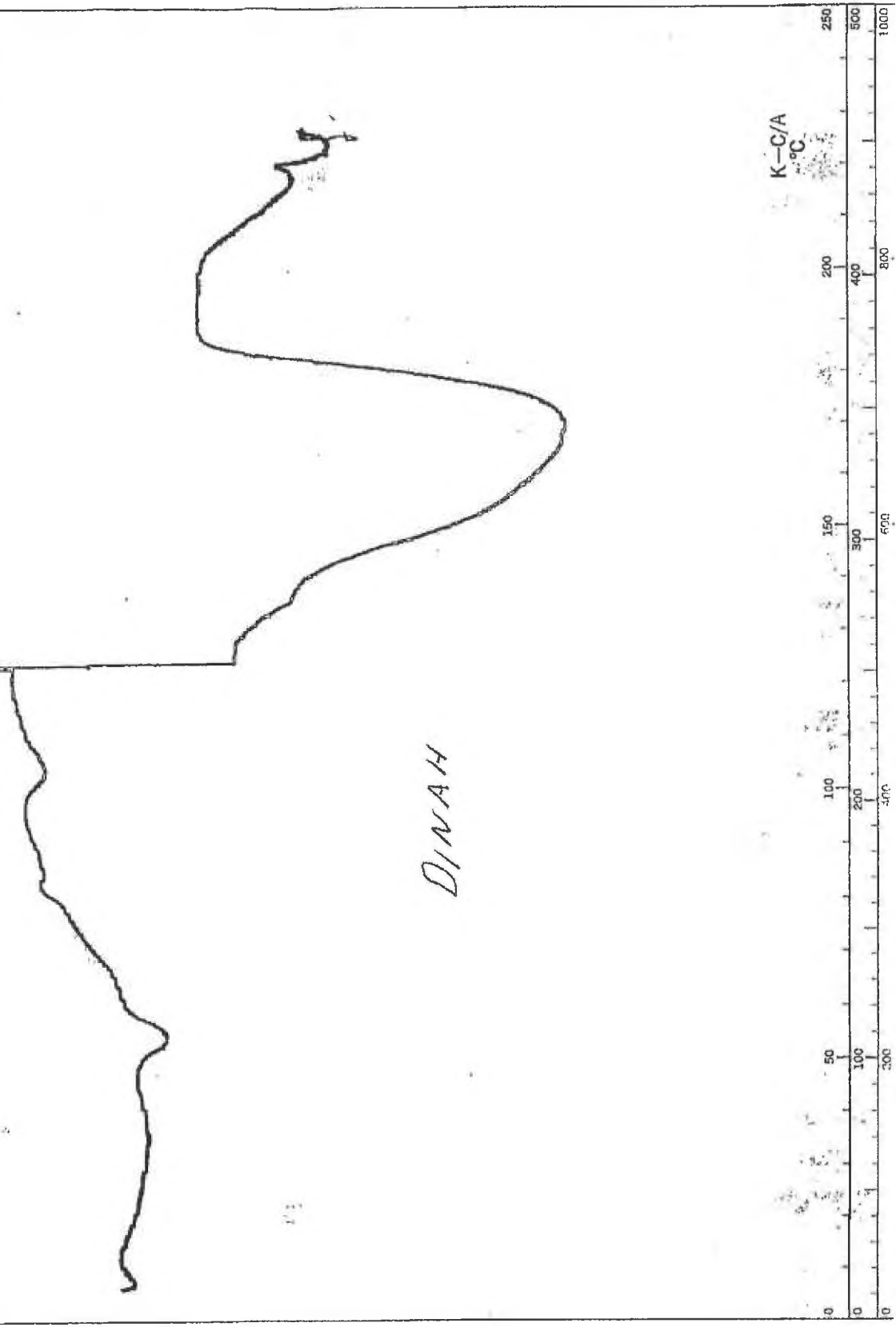
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SAMPLE	WEIGHT	REF. MATL.	ATMOSPHERE	PRESSURE
I	200 mg	Aluminum	He	10 mg Aluminum
PROGRAM RATE	ΔT	SAMPLE HOLDER	GAS FLOW	
20 °C/MIN	100 mV to 500 °C 400 to 900 °C	11BR2112	40 cc/min	1-Atm T.C.

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ANALYTICAL INSTRUMENTS

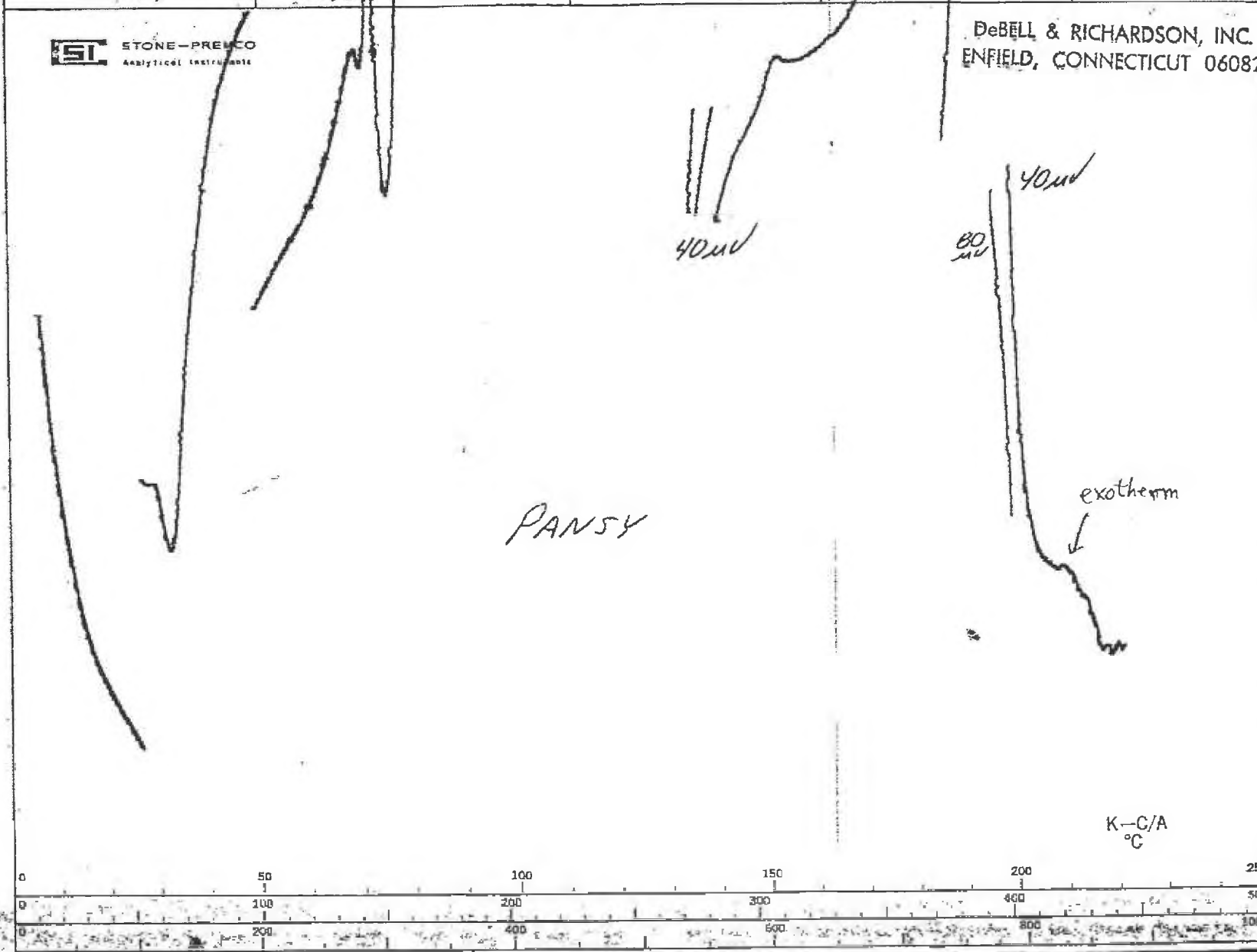
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SAMPLE ID	20.3 mg	REF. MATL.	Aluminum 10.0	He to 900°C	Atm
PROGRAM RATE	24 °C/MIN	ΔT GAIN	150 mV to 500°C 40 mV to 900°C	SAMPLE HOLDER	110R2 N1Z
			GAS FLOW	40 cc/min	SBFH

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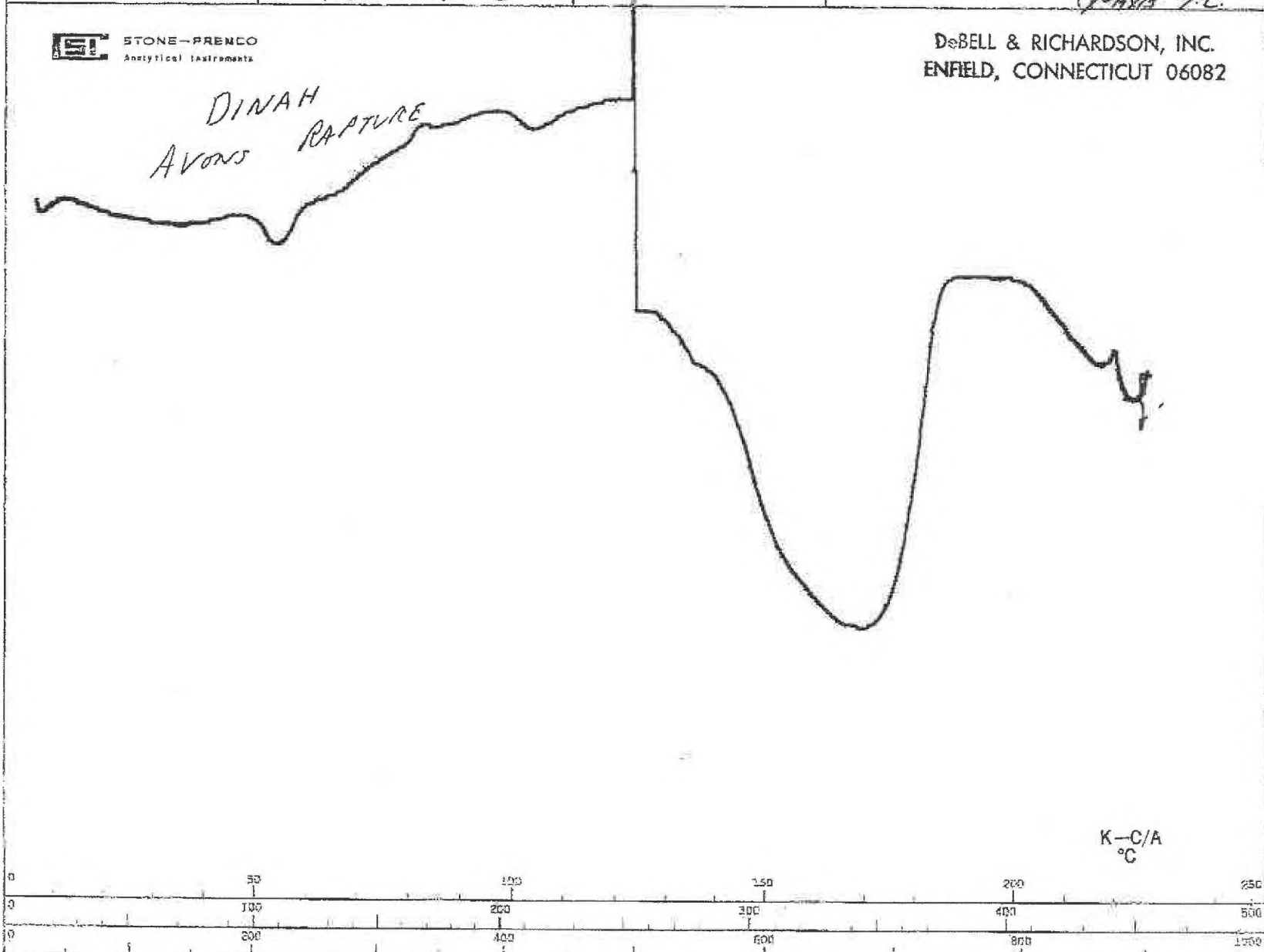
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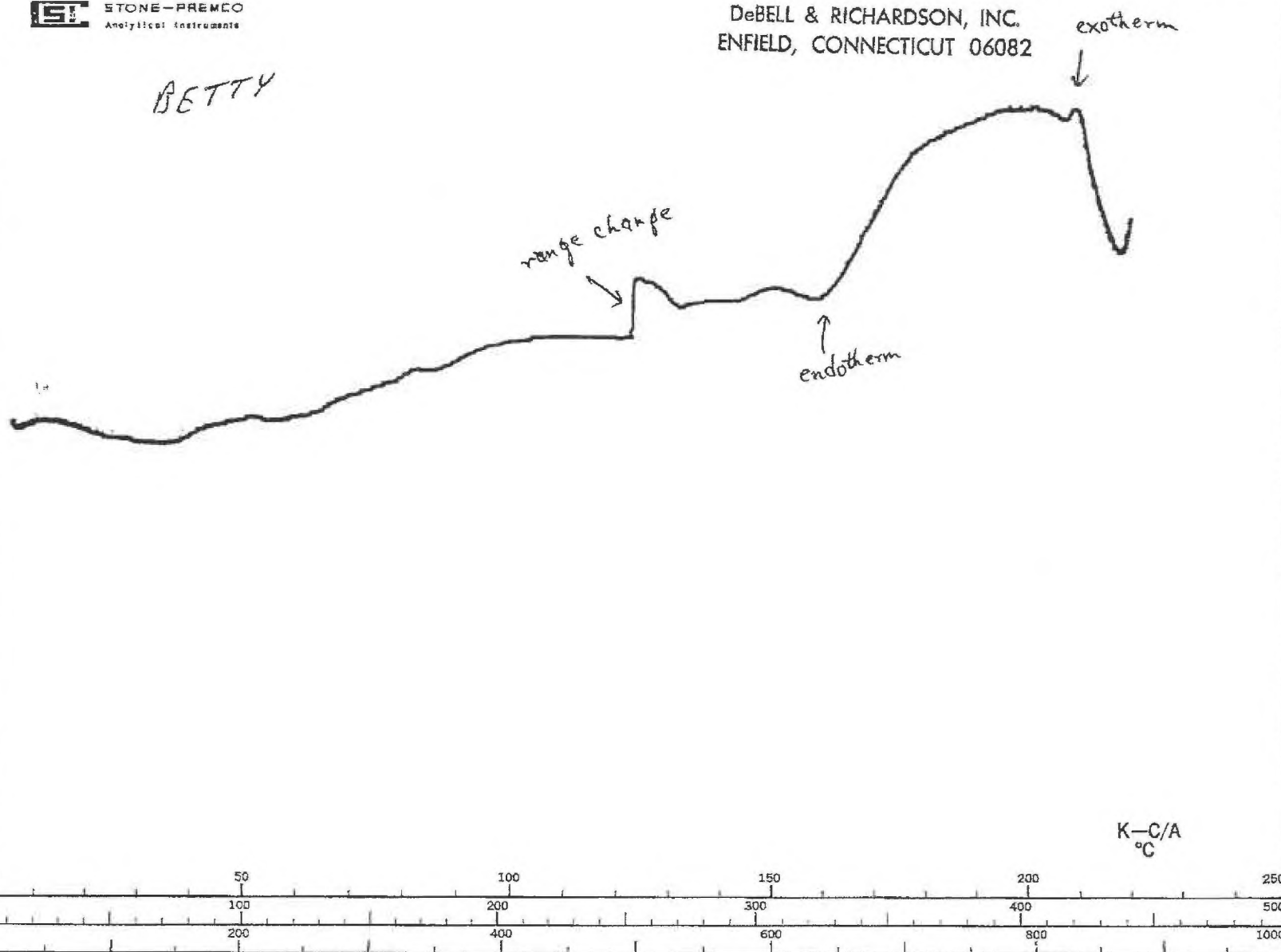
DTA # 1186

CSI STK NO. 13675-0001
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SAMPLE <i>I</i>	WEIGHT <i>20.0 mg</i>	REC. MATL. <i>ALUMINUM</i>	WT. <i>10.0 mg</i>	ATMOSPHERE <i>He</i>	PRESSURE <i>1 atm</i>
PROGRAM RATE <i>24 °C/MIN</i>	ΔT GAIN <i>150 mV to 500 °C</i> <i>40 mV to 900 °C</i>	°C/°F	SAMPLE HOLDER <i>11BR2N1Z</i>	GAS FLOW <i>1/10 cc/min</i>	SCFH <i>10 mg ALUMINUM</i> <i>1-Axis T.C.</i>

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AVONS RAPTURE

SAMPLE - H	WEIGHT 200 mg	REF. MATL. Alundum	WT. 10.0	ATMOSPHERE He	PRESSURE Atm
PROGRAM RATE 24	°C/MIN	Δ T GAIN 150 mV to 500°C 40 mV to 900°C	SAMPLE HOLDER 11BR2N1Z	GAS FLOW 40 cc/min	10 mg Alundum X-Axis T.C.

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SAMPLE H	WEIGHT 19.8 g	REF. MATL. ALUMINUM	WT. 10.0 mg	ATMOSPHERE He	PRESSURE Atm
PROGRAM RATE 24 °C/MIN	ΔT GAIN 100 mV to 500°C 40 mV to 900°C	SAMPLE HOLDER 11BR2NIZ	GAS FLOW 40 cc/min	sett	10 mg ALUMINUM 1-Axis T.C.

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BETTY
f + f spiked with 2% Chrysotile

range change

endotherm

exotherm

K-C/A
°C

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WHITTAKER CHALK 2079.2

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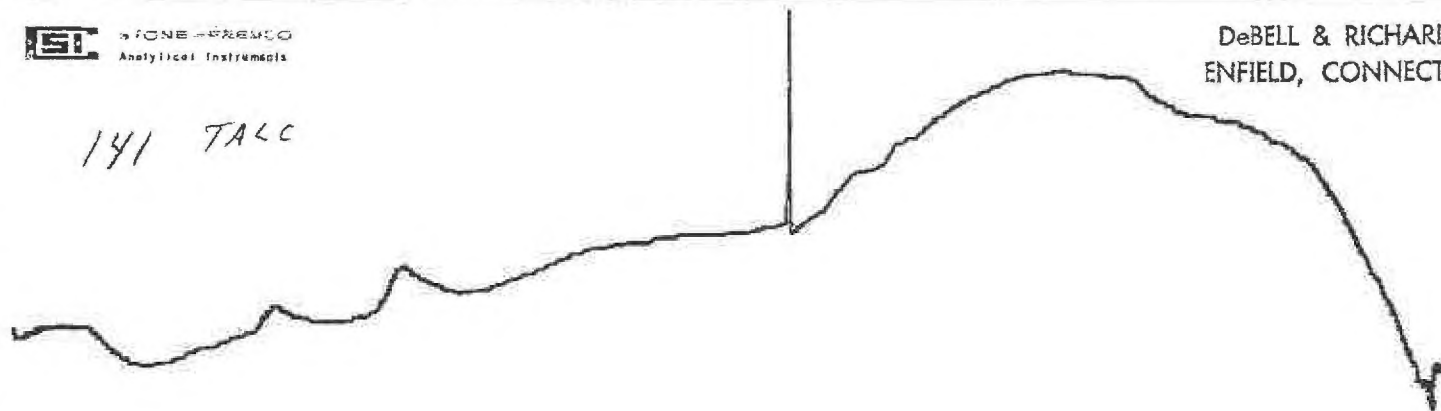
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SAMPLE J	WEIGHT 202 mg	REF. MATERIAL ALUNDUM	WT. 10.0 mg	ATMOSPHERE He	PRESSURE Atm
PROGRAM RATE 24 °C/MIN	ΔT GAIN 150 μV to 500 °C 40 μV to 900 °C	AV	SAMPLE HOLDER 11BR2 NIZ	GAS FLOW 40 cc/min	98% He 10 mg ALUNDUM K-AXIS T.C

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141 TALL

K-C/A
°C