ORGANIC RESEARCH

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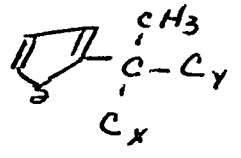
GENERAL PHYSICAL CHEMISTRY GROUP WORK REQUEST

DATE	CHARGE - Job No.
2-15-65	4382
REQUESTER: Frank Clark	LOCATION: 206

WORK REQUESTED OR ANALYSIS REQUIRED

GLC

REASON: Determine the extent of reaction and whether or not all of the starting olefin has reacted.

C_{14}, C_{16}, C_{18} } ene-1 $\xrightarrow{AlR_3}$ C_{28}, C_{30}, C_{32}, C_{34}, C_{36} olefins $\xrightarrow[BF_3 \cdot Et_2O]{R_5}$ 

$X + Y = 26-34$

COMMENTS (e.g. Accuracy requirements, timing situation)

Part of the product (i.e. alkylated thiophenes) will probably elute in the area of the starting olefins.

SAMPLE INDENTIFICATION (notebook page numbers, lot numbers, dates, or other information that will be unequivocal indefintely.)

OR 17486 crude

OR 17486 2nd crude

OR 17490 crude

SPECIAL INFORMATION (Data that will facilitate our work such as known solvents for molecular weight samples, melting point if properties in solid and liquid state are needed, maximum process temperature for thermal stability samples, boiling points for gas chromatography, chemical recation involved, etc.)

Unstable ____, *Explosive* ____, *Toxic* ____, *Stench* ____, *sublimes* ____, *Hygroscopic* ____, *Use dry box* ____

M. P. ____, *B.P.* ____ *mm, Solvents* ____

Other ____

DSW 298283

STLCOPCB4068194

This side to filled in by general physical chemistry group

ORT OF RESULTS

DATE 3-19-65

O:

CC:

	2nd Crude		Topped residue	
L.B.	2.9%	1.8%	8.4%	5.5%
①	1.4	1.9	2.1	
②	1.8	2.2	~~0.7~~ 1.4	
③	6.4	6.5	~~1.4~~ 5.9	
④	10.4	10.7	~~5.9~~ 9.6	
⑤	11.5	11.1	~~9.6~~ 9.9	1.0
⑥	18.5	19.3	~~9.9~~ 18.2	17.9
⑦	24.8	24.0	23.0	39.8
⑧	17.1	17.1	16.2	27.8
⑨	4.6	4.8	4.4	7.9
⑩	0.6	0.6	0.6	–

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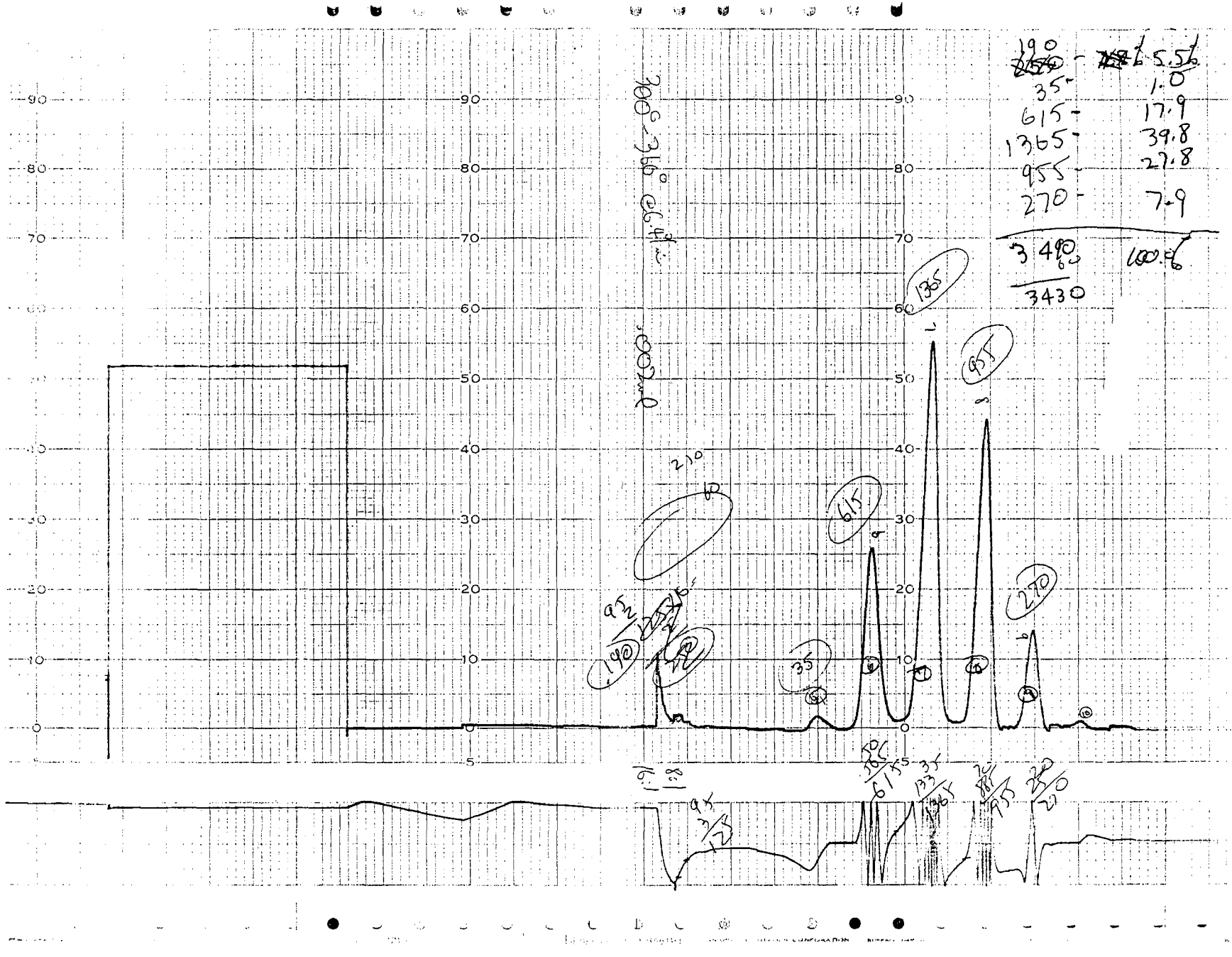
G. Gasser

SIGNATURE



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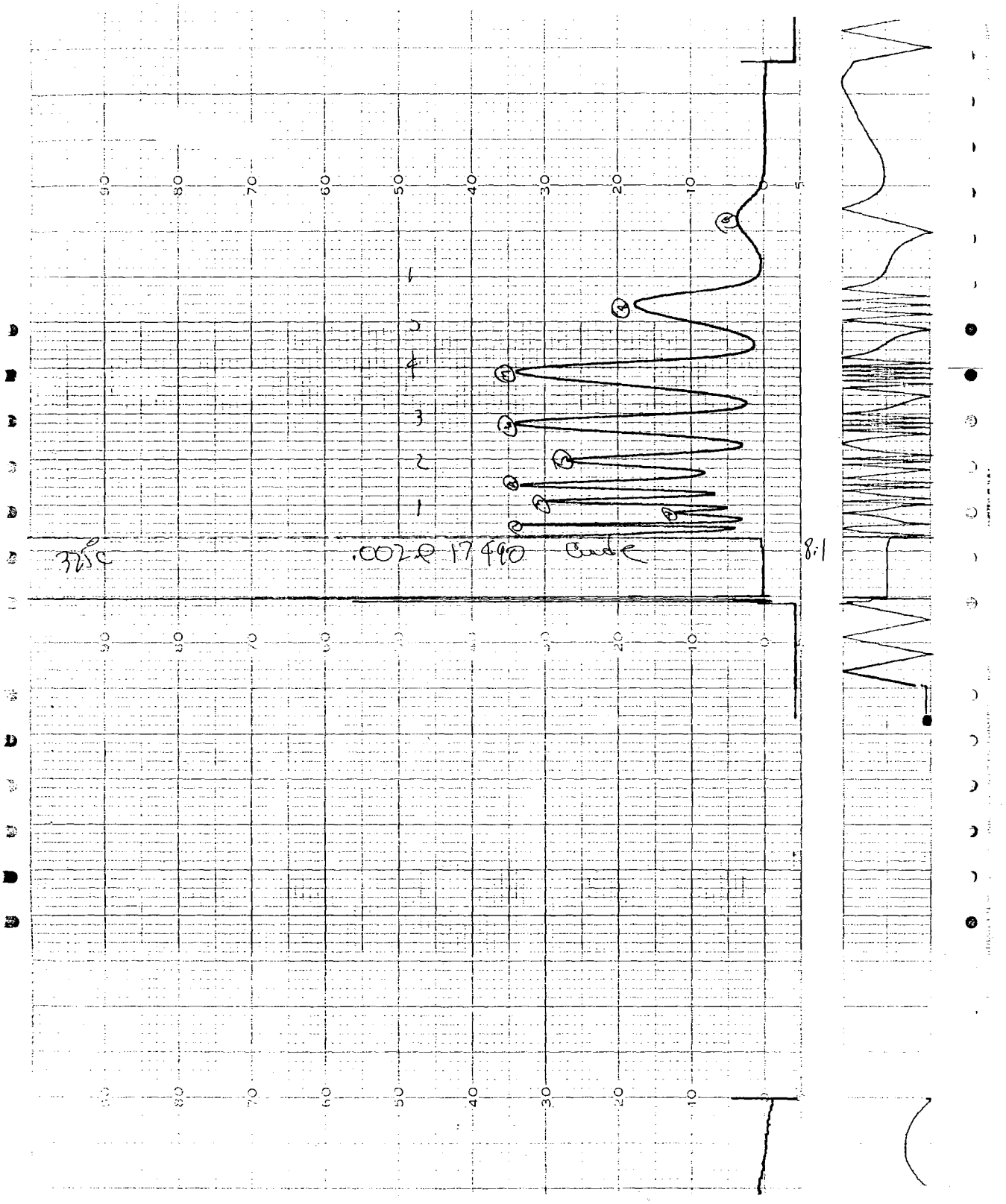

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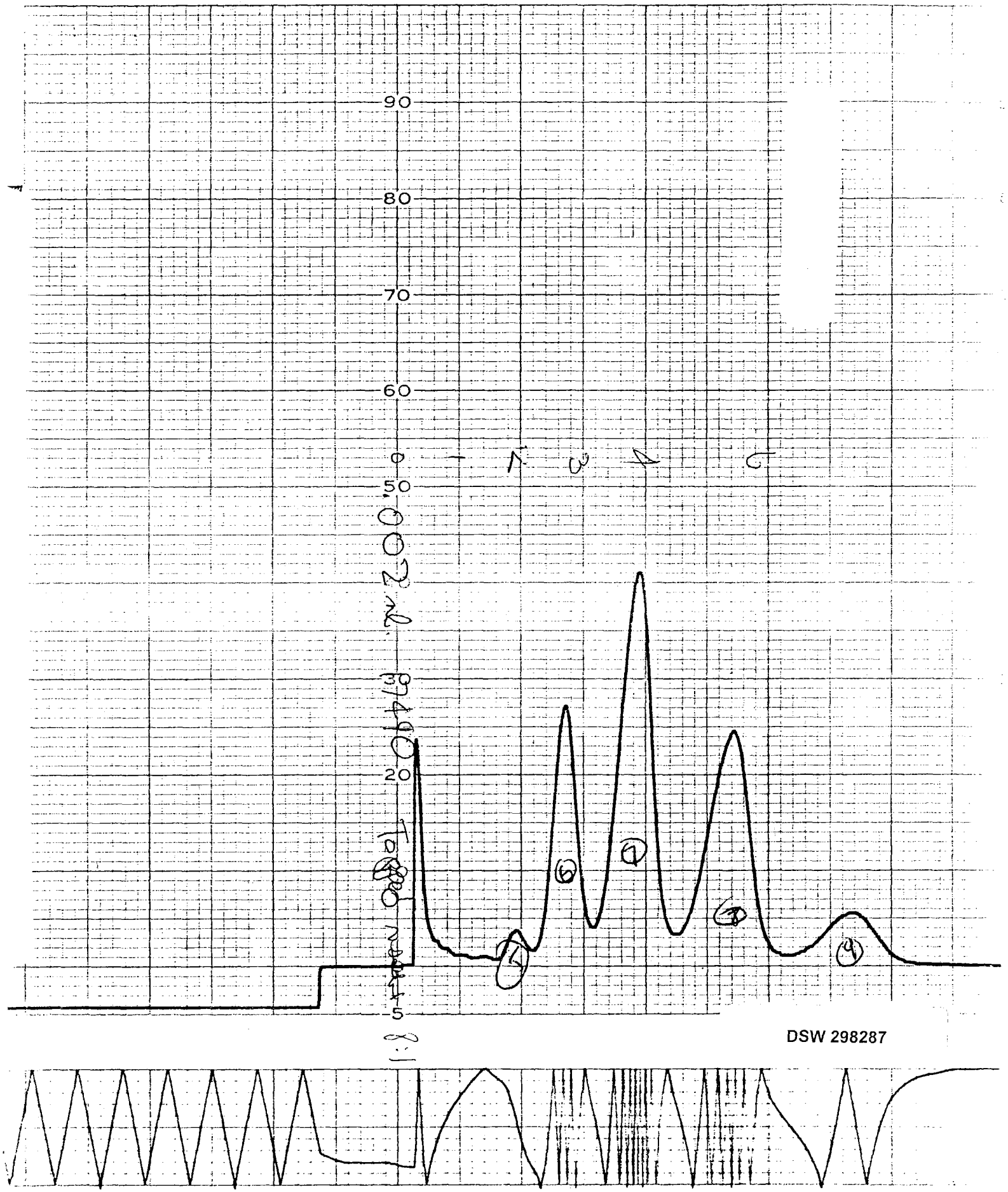

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