Schlumberger

GL02607

DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

COMPANY Reynolds Electric Company #4
Hells Jet Nuclear Company

WELL RRGE #2

FIELD Raft River Geothermal

COUNTY Cassia STATE Idaho

COUNTY
FIELD or
LOCATION
WELL
COMPANY

Location. API Serial No.
NE-NE

Sec. 23 Twp. 15S Rge. 26E

Other Services:
FDC/CNL/GR
BHC
Temp

Permanent Datum: Ground Level ; Elev.: 4845
Log Measured From GL , 0 Ft. Above Perm. Datum
Drilling Measured From GL

Elev.: K.B. 4863
D.F. 4845
G.L. 4845

Date	6-27-75				
Run No.	Two				
Depth–Driller	6006				
Depth–Logger	6004				
Btm. Log Interval	5998				
Top Log Interval	4215				
Casing–Driller	13 3/8 @ 4227	@		@	
Casing–Logger	4225				
Bit Size	12 1/4				
Type Fluid in Hole	WATER				
Fluid Level	FULL				
Dens. | Visc.	NA | NA				
pH | Fluid Loss	NA | NA ml		ml		ml
Source of Sample	Flowline				
R_m @ Meas. Temp.	2.15 @ 146 °F	@ °F		@ °F	
R_{mf} @ Meas. Temp.	2.70 @ 118 °F	@ °F		@ °F	
R_{mc} @ Meas. Temp.	3.22 @ 146 °F	@ °F		@ °F	
Source: R_{mf} | R_{mc}	M | C				
R_m @ BHT	1.1 @ 284 °F	@ °F		@ °F	
Time Since Circ.	18 HRS				
Max. Rec. Temp.	291 °F	°F		°F	
Equip. | Location	7726 | K.S.				
Recorded By	WALKER				
Witnessed By	STOKER				

FOLD HERE

The well name, location and borehole reference data were furnished by the customer.

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES

Date | Sample No.				
Depth - Driller				
Type Fluid in Hole				
Dens. | Visc.				
ph | Fluid Loss		ml		ml
Source of Sample				
R_m @ Meas. Temp.	@ °F		@ °F	
R_{mf} @ Meas. Temp.	@ °F		@ °F	
R_{mc} @ Meas. Temp.	@ °F		@ °F	
Source: R_{mf} | R_{mc}				
R_m @ BHT	@ °F		@ °F	
R_{mf} @ BHT	@ °F		@ °F	
R_{mc} @ BHT	@ °F		@ °F	

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

Run No.	Two			
Panel No.	331			
Cart. No.	176			
Sonde No.	119			
Mem. Panel No.	221			
G.R. Cart No.	–			
G.R. Panel No.	–			
TTR No.	–			
Cent. Device	ONE			
Stand off - Inches	1 1/2"			
Time Const. - Sec.	–			
Speed - F.P.M.	100			

REMARKS

Service Order No. - 24036

☐ Surface determined sonde errors used for 6FF40.
☐ 6FF40 sonde error corrected for inch
borehole signal at R_m =
☒ 6FF40 zero set in hole at depth of 5300 feet.

CALIBRATION DATA

CALIBRATION:	BACKGND.	SOURCE	GALV. INCR.	SENS. TAP	SENS. TAP	TIME
	CPS.	CPS.	DIVISION	(FOR CAL.)	(RECORD)	CONST.
GAMMA RAY:						

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS-POTENTIAL
MILLIVOLTS

– 10 +

CONDUCTIVITY
MILLIMHOS $M = \frac{1000}{OHMS.\ M^2/M}$

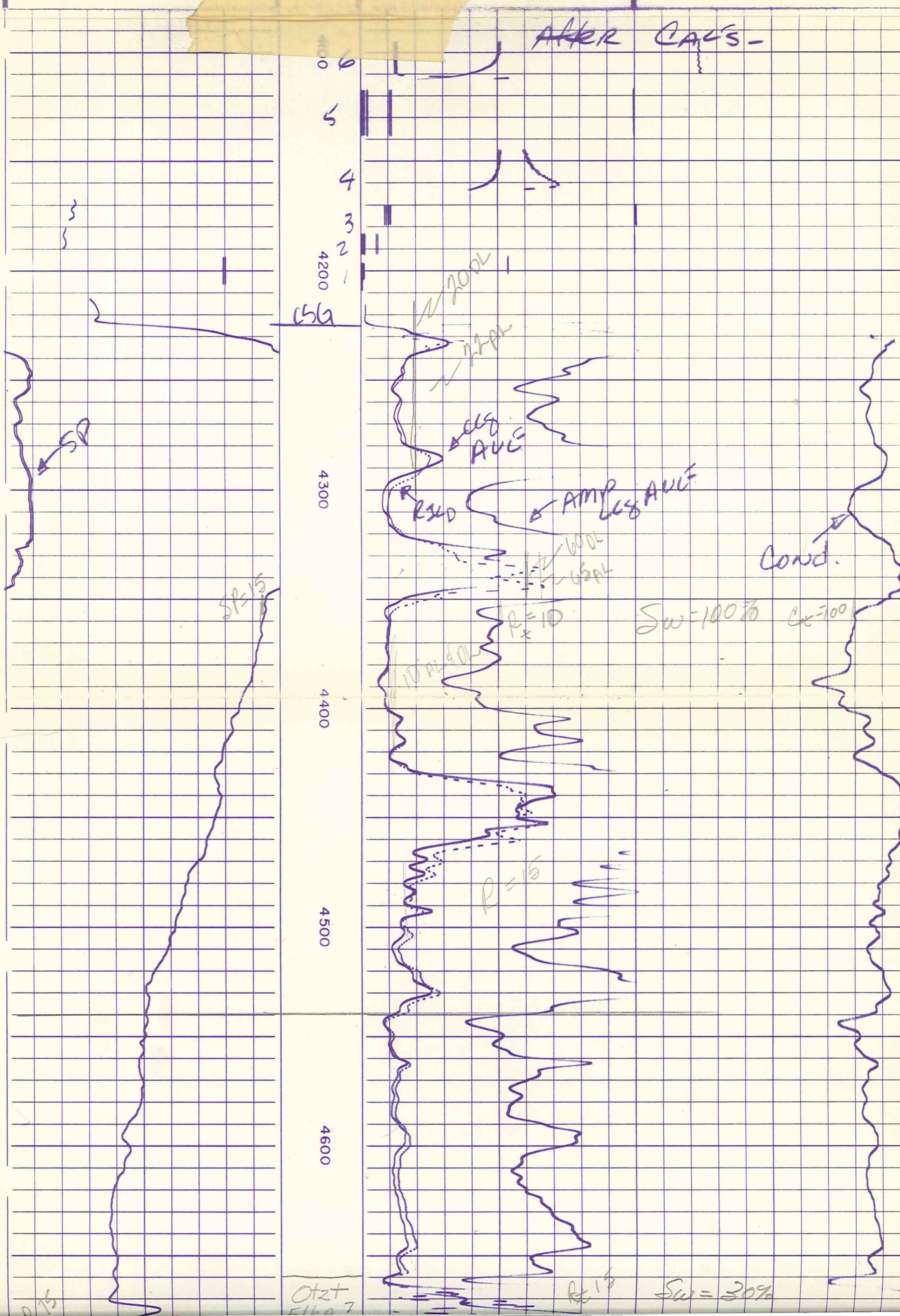
DEEP INDUCTION LOG

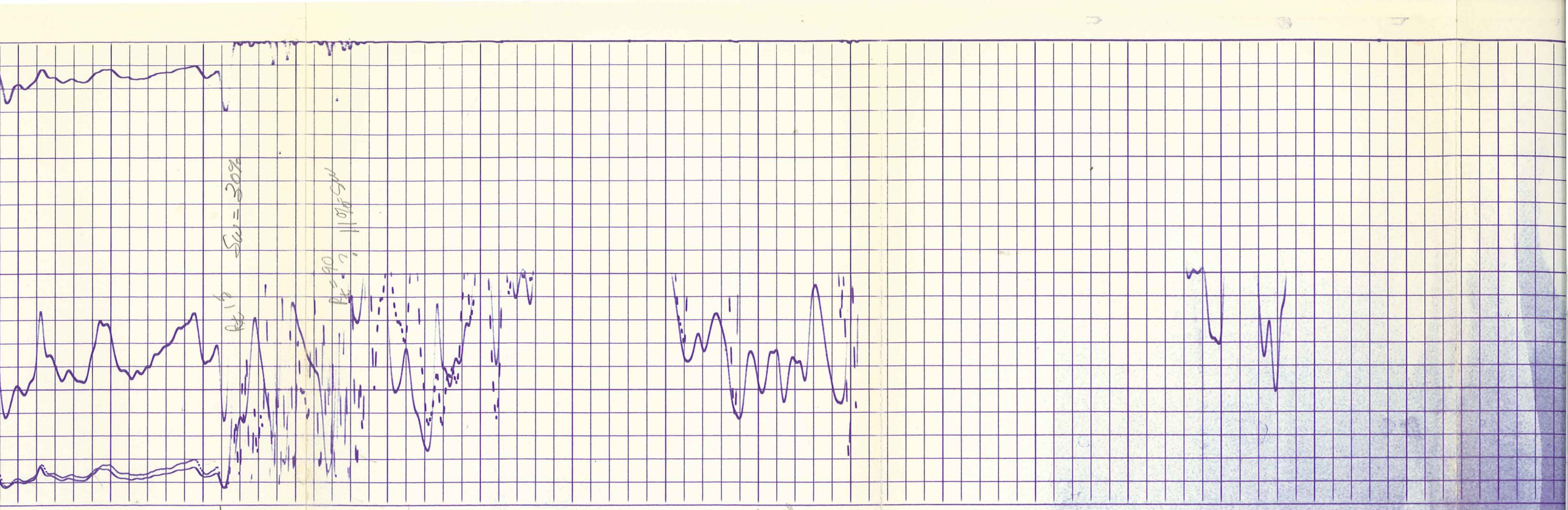
1000 500 0

RESISTIVITY
OHMS. M^2/M

any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS-POTENTIAL MILLIVOLTS		CONDUCTIVITY MILLIMHOS/M = $\frac{1000}{OHMS.\ M^2/M}$
10 — |↔| +		DEEP INDUCTION LOG 1000 — 500 — 0
		RESISTIVITY OHMS. M^2/M
		DEEP INDUCTION LOG 0 — 100; 0 — 1000
		AVERAGED LATEROLOG - 8 0 — 100; 0 — 1000
		AMP. AVE. LATEROLOG - 8 20




4600
4700
4800
4900
5000
5100
5200
5300

RHOB

LLS AUG

COND

5300 5400 5500 5600 5700 5800 5900 6000

AMP. AVE. LATEROLOG — 8
0 20

AVERAGED LATEROLOG — 8
0 100

0 1000

DEEP INDUCTION LOG
0 100

0 1000

RESISTIVITY
OHMS. M² /M

DEEP INDUCTION LOG

SPONTANEOUS-POTENTIAL
MILLIVOLTS

DEPTHS

CONDUCTIVITY
MILLIMHOS/M = 1000 / OHMS. M²/M

COMPANY Reynolds Electric

WELL RRGE #2

FIELD Raft River Geothermal

COUNTY Cassia STATE Idaho

SCHL. FR
SCHL. TD
DRLR TD
Elev:
KB
DF
GL

DETAIL LOG
5" = 100'

SPONTANEOUS-POTENTIAL
MILLIVOLTS

DEPTHS

RESISTIVITY
OHMS. M² /M

10

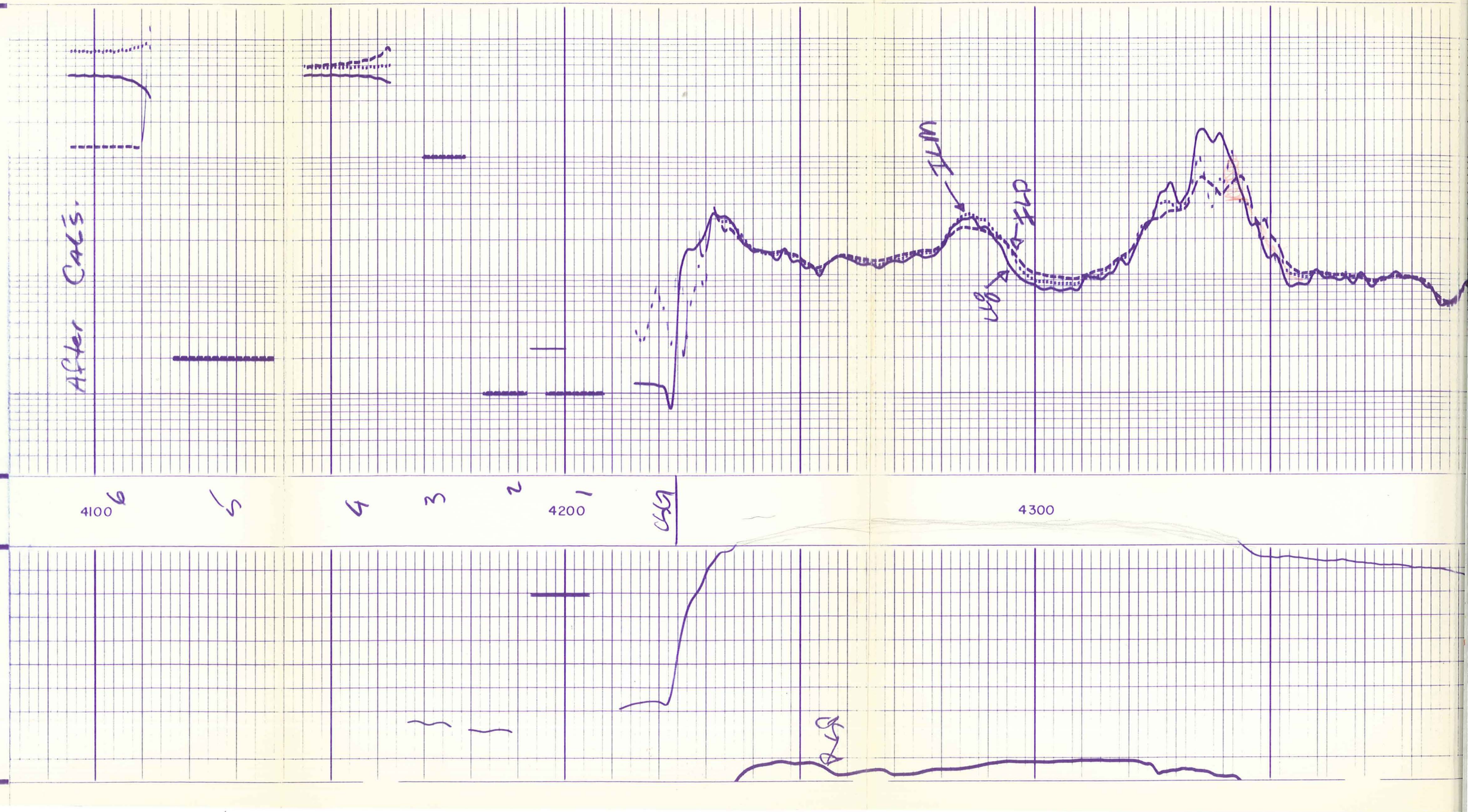
DEEP INDUCTION LOG
0.2 1.0 10 100 1000 2000

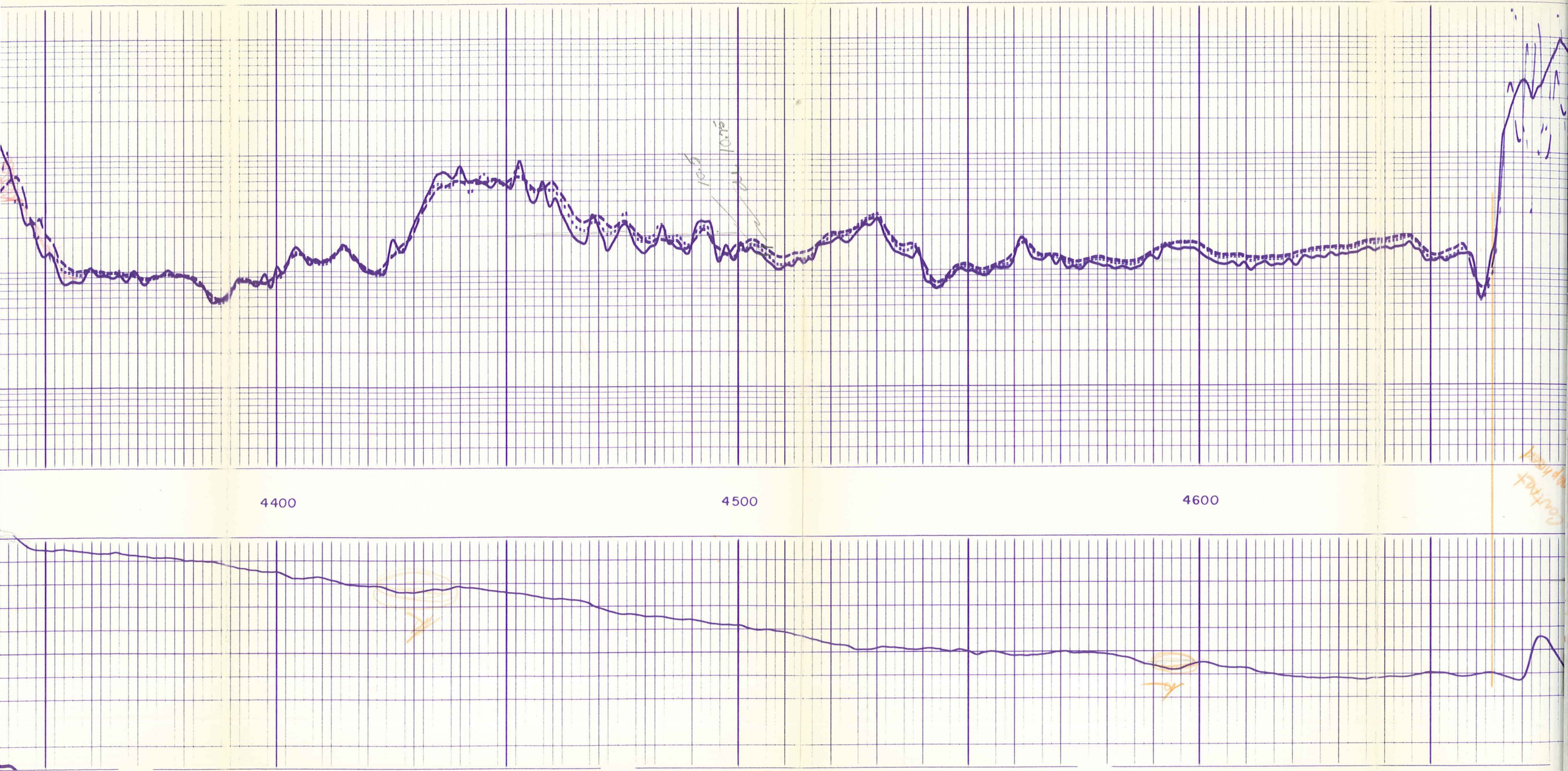
MEDIUM INDUCTION LOG
0.2 1.0 10 100 1000 2000

LATEROLOG — 8
0.2 1.0 10 100 1000 2000

4100

After Cals.


After Cals.
WTT
CHT
WT
4100
4200
4300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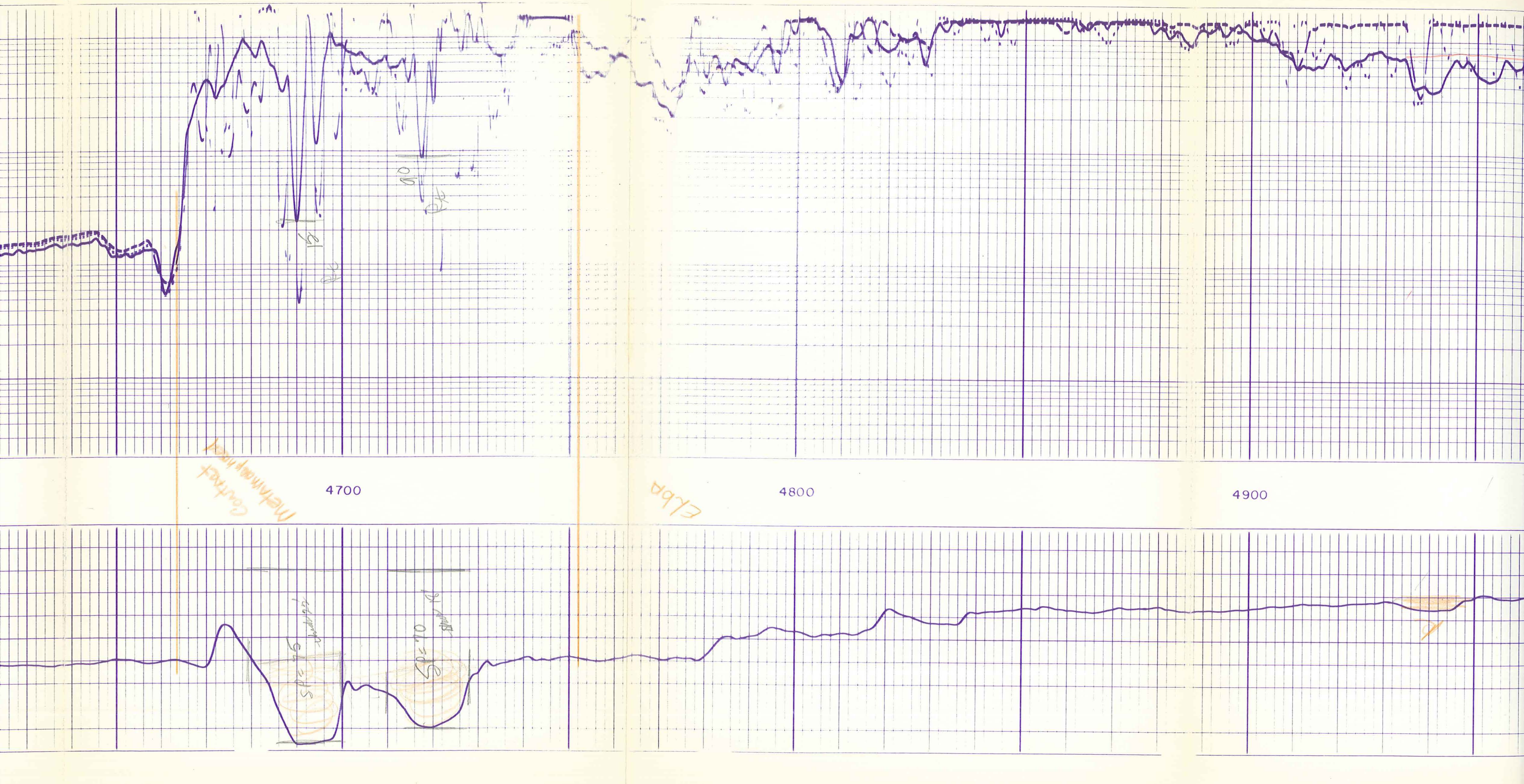
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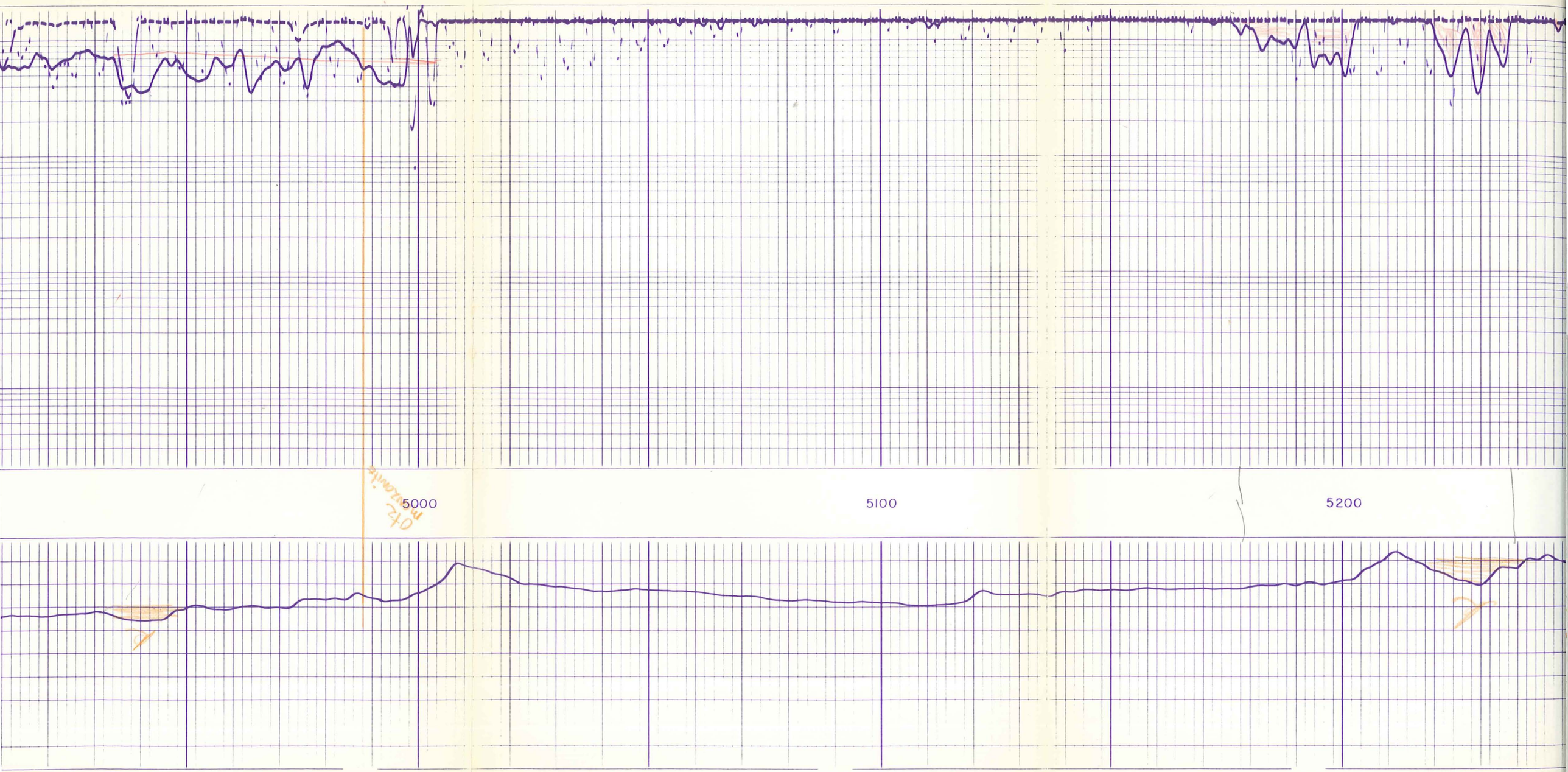
Elba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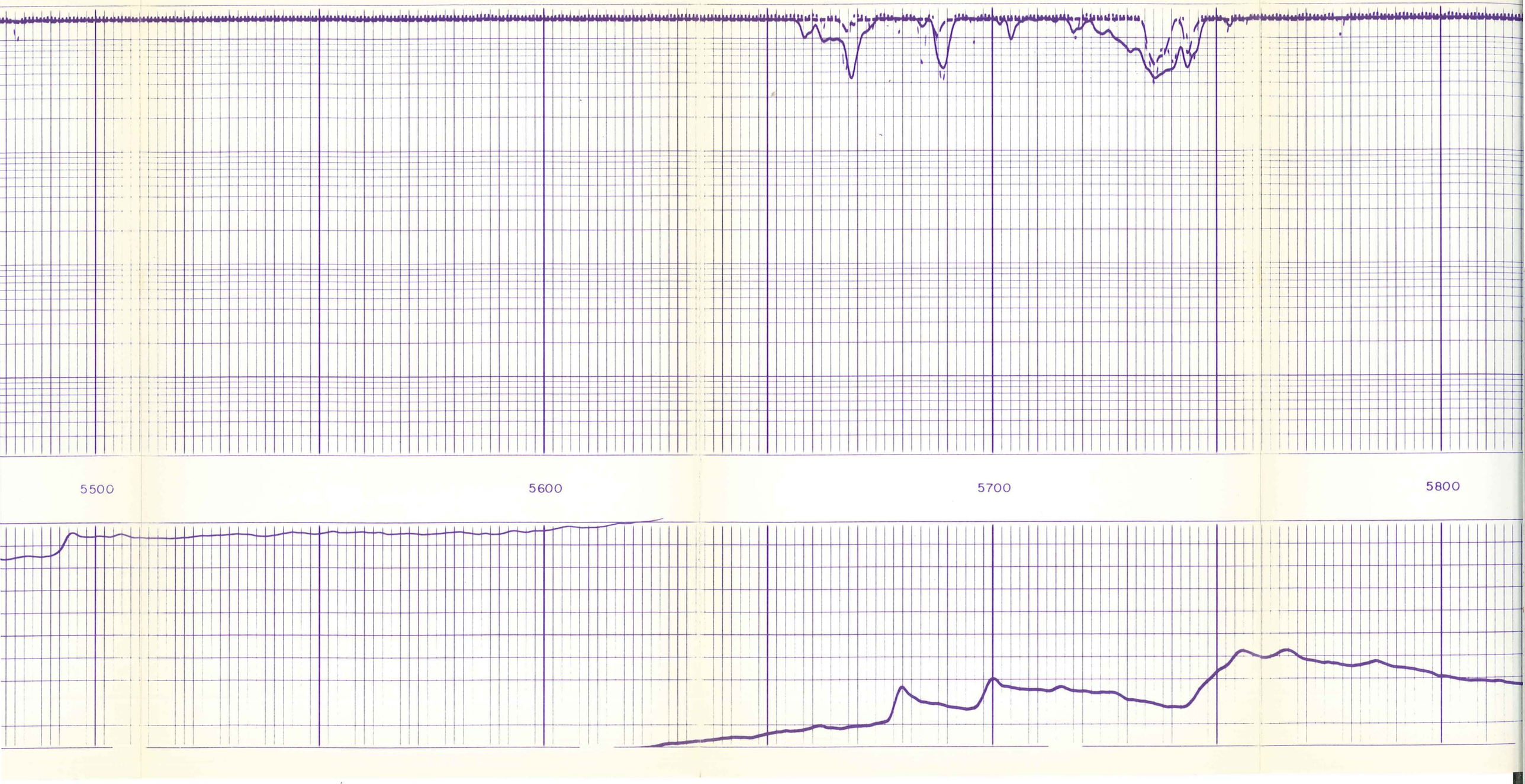
5100
5200


5200
5300
5400
5500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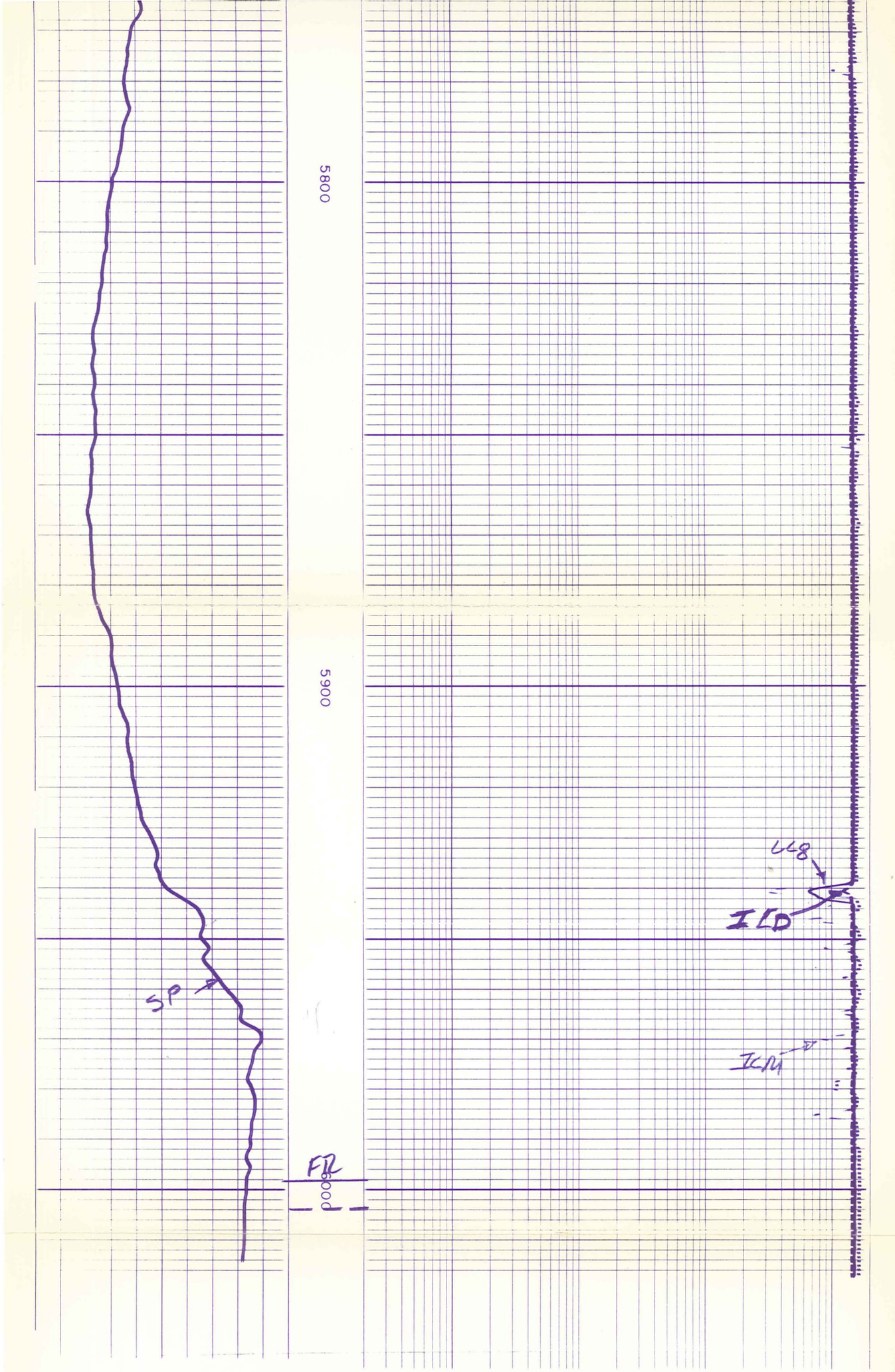
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5900
SP
LLS
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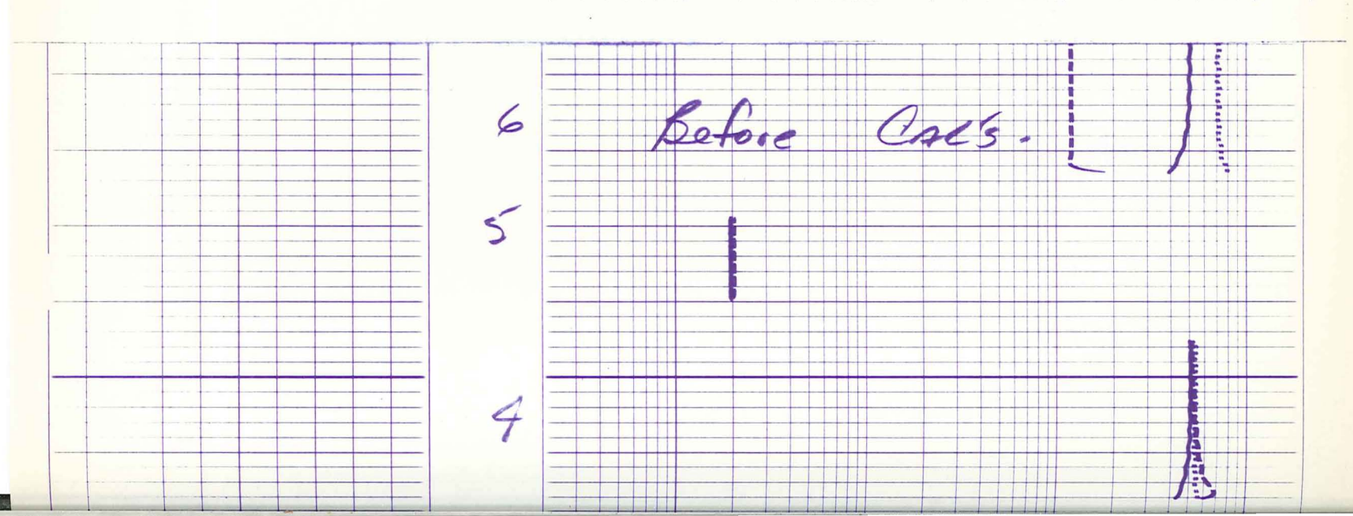
ILM
FIL
6000


6
5
4
Before Cal's.

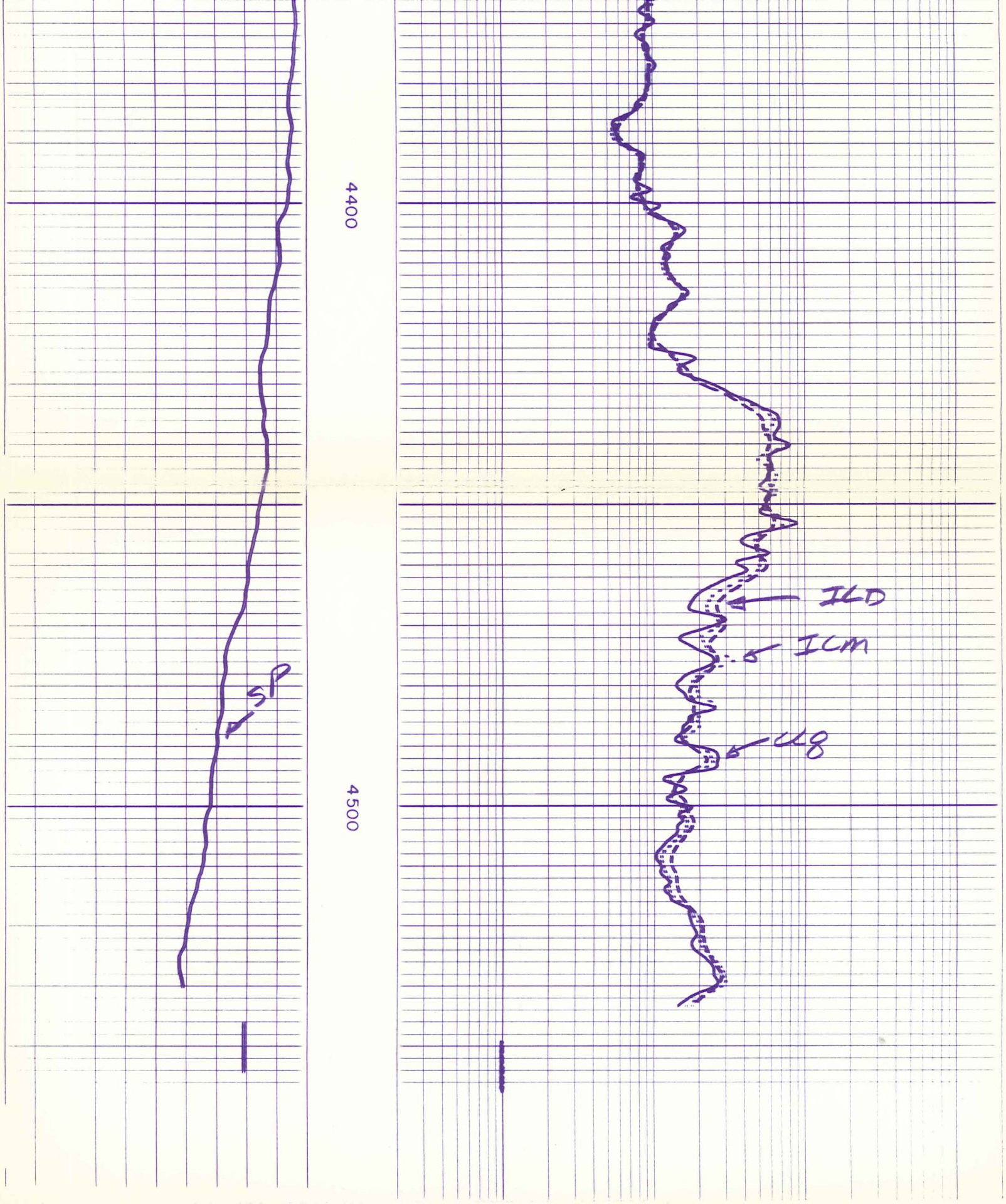
Before Cuts.

6 5 4 3 2

4200

MEMORIZER OUT — CURVES INVALID

4400



DUAL INDUCTION CALIBRATION FILM CODING

1. MECHANICAL ZERO
2. 1 OHM-M
3. 100 OHM-M
4. ELECTRICAL ZERO (500 OHM-M)
5. 2 OHM-M
6. SONDE ERRORS (+2 MMHO)
7. ZERO SIGNAL IN AIR
8. ILd TEST LOOP (2 OHM SIGNAL)
9. ILm TEST LOOP (2 OHM SIGNAL)
10. Rxo/Rt UNITY
11. Rxo/Rt CALIBRATE