



MIDWEST SURVEYS

LOGGING - PERFORATING - CONSULTING SERVICES
 P.O. Box 68, Osawatomie, KS 66064
 913 / 755 - 2128

GAMMA RAY / NEUTRON / CCL

API # 15-207-28,987

File No.

Company **Haas Petroleum, LLC**
 Well **Old Rhea No. 3i-HP**
 Field **Winterscheid**
 County **Woodson** State **Kansas**

Location **600' FNL & 2000' FWL
 W/2-E/2-NE-NW**

Other Services
 Perforate

Sec. **24** Twp. **24S** Rge. **13E**
 Permanent Datum **GL** Elevation **1036'**
 Log Measured From **GL**
 Drilling Measured From **KB 6' from GL**
 Elevation **K.B. 1042'
 D.F. NA
 G.L. 1036'**

Date	09-10-2014
Run Number	One
Depth Driller	1654.0
Depth Logger	1642.8
Bottom Logged Interval	1641.8
Top Log Interval	20.0
Fluid Level	Full
Type Fluid	Water
Density / Viscosity	NA
Salinity - PPM Cl	NA
Max Recorded Temp	NA
Estimated Cement Top	0.0
Equipment No.	107
Location	Osawatomie
Recorded By	Steve Windisch
Witnessed By	Mark Haas

BORE-HOLE RECORD				CASING RECORD			
RUN No.	BIT	FROM	TO	SIZE	WGT. #	FROM	TO
One	12.25"	0.0	40.0	8.625"	22.0 #	0.0	40.0
Two	6.75"	40.0	1654.0	4.50"	10.5 #	0.0	1645.0

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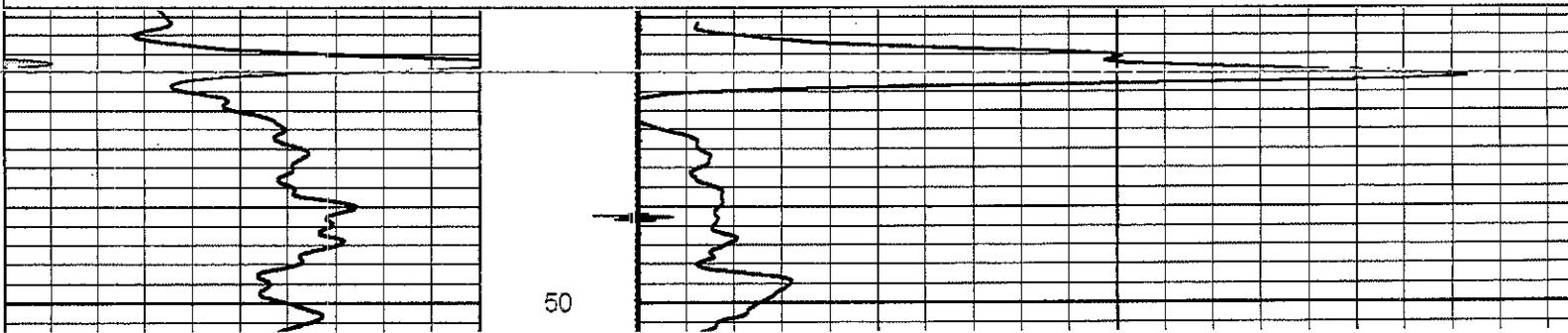
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost, 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 our general terms and conditions set out in our current Price Schedule.

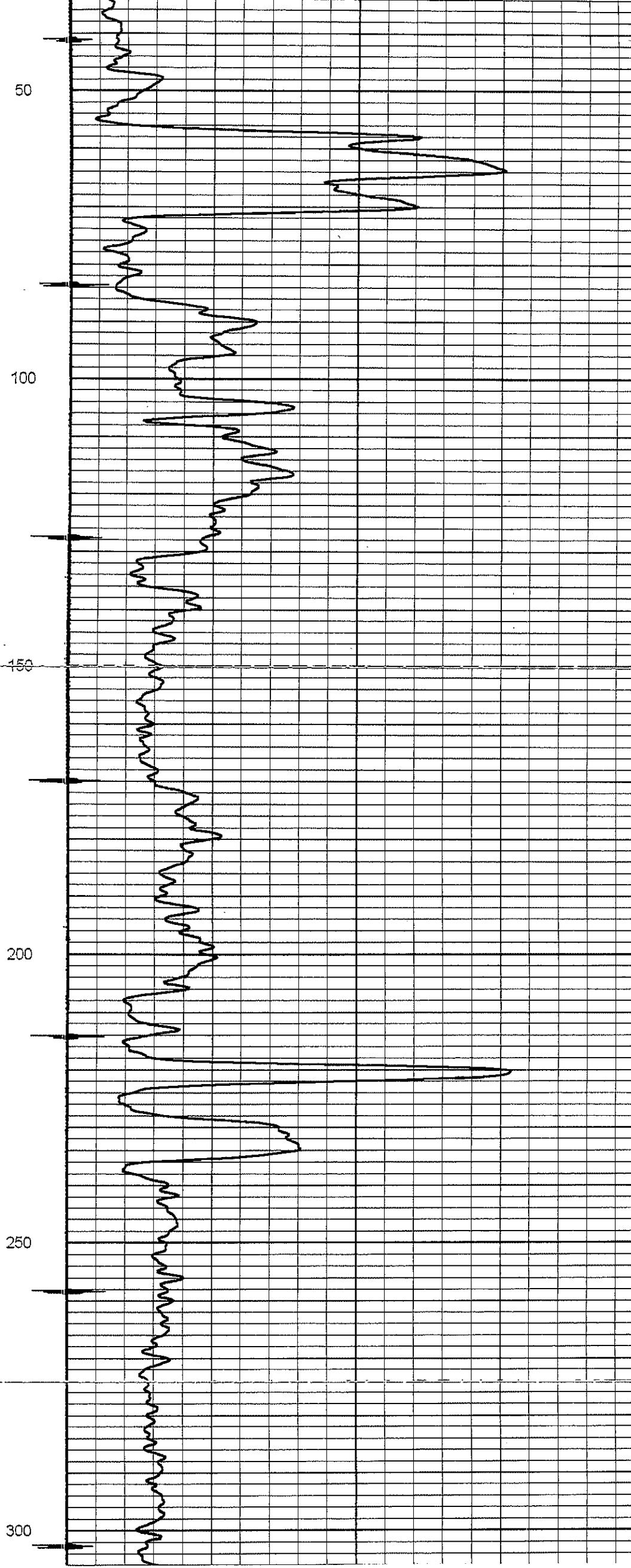
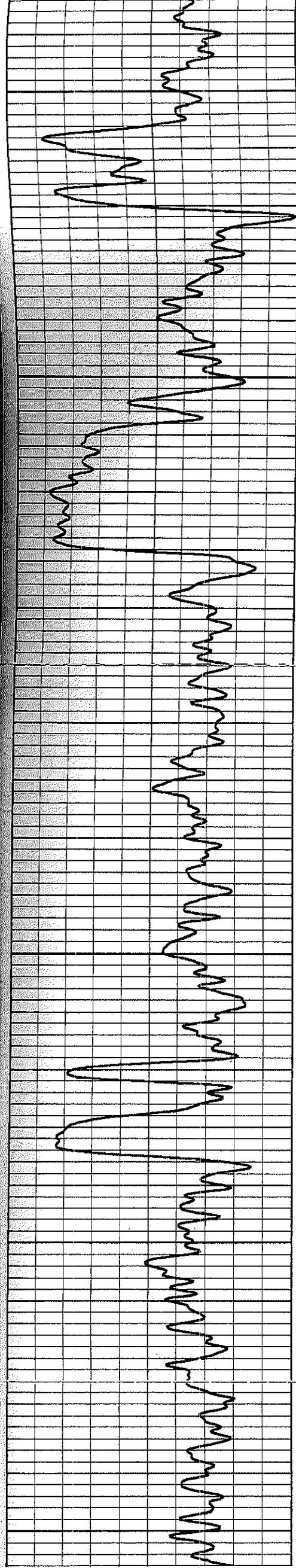
Comments

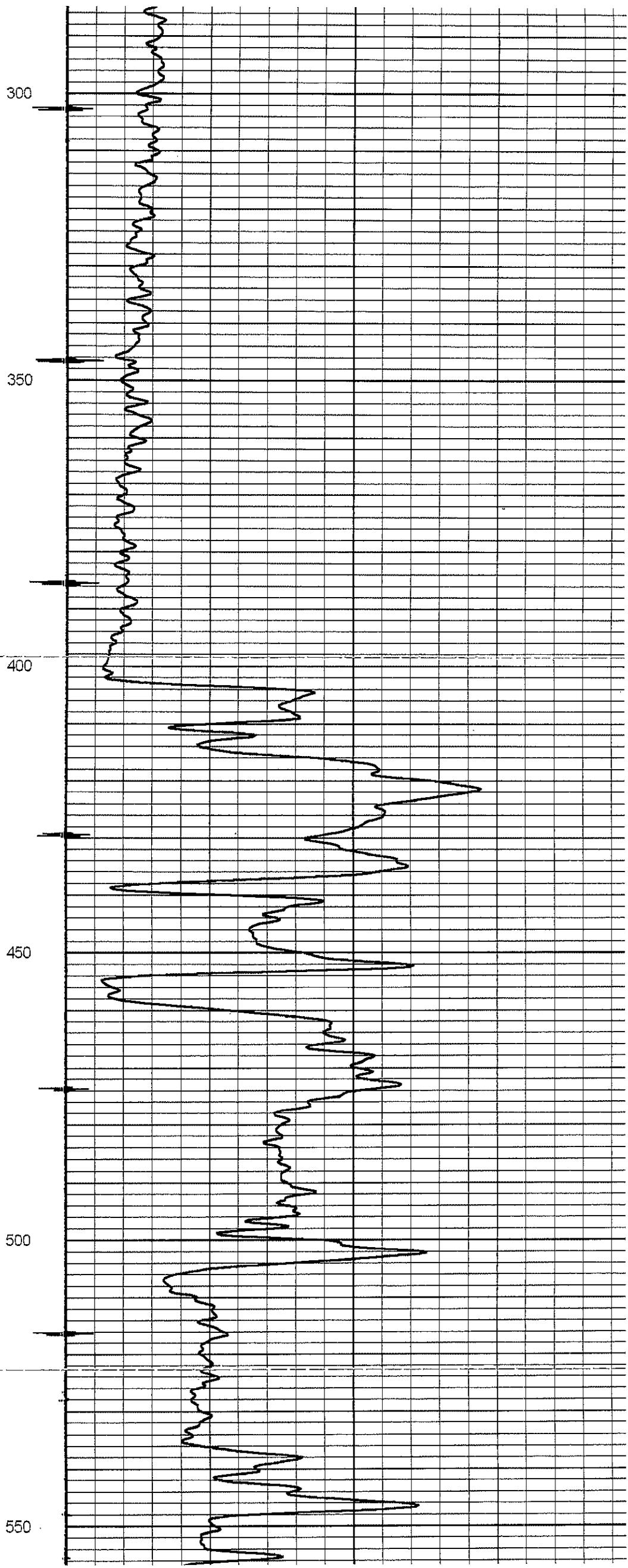
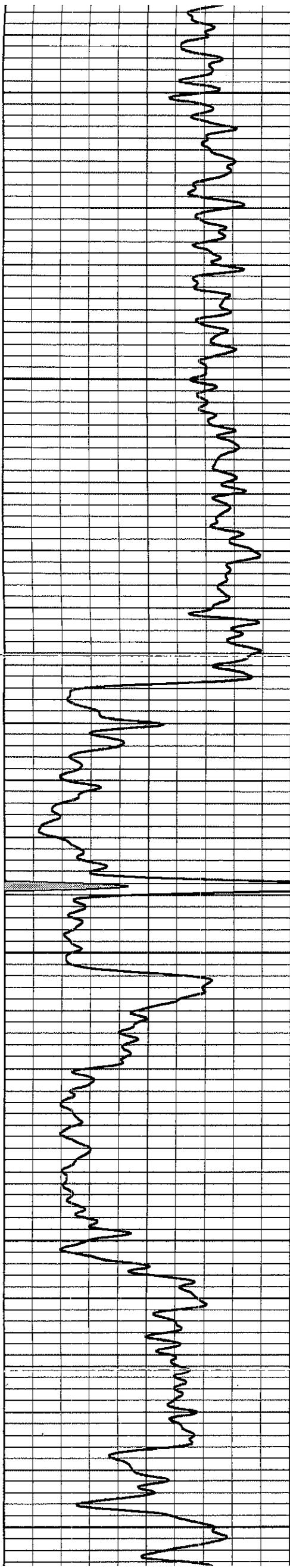
Drilling Contractor :
 Skyy Drilling, LLC
 Rig # 1

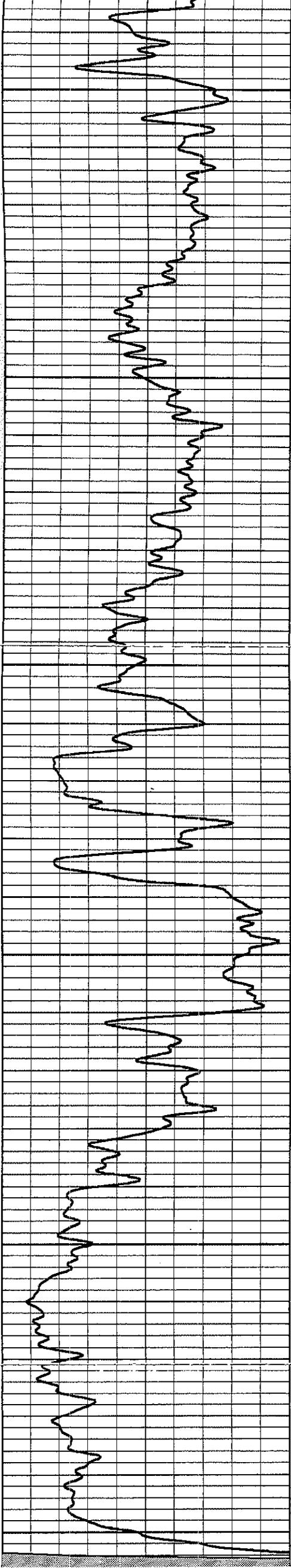
Database File: old rhea 3i-hp.db
 Dataset Pathname: pass1
 Presentation Format: gr-n-ccl
 Dataset Creation: Wed Sep 10 10:33:14 2014 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (cps)	150	-1 CCL 1		
150	Gamma Ray (cps)	300	10	Neutron (cps)	210









550

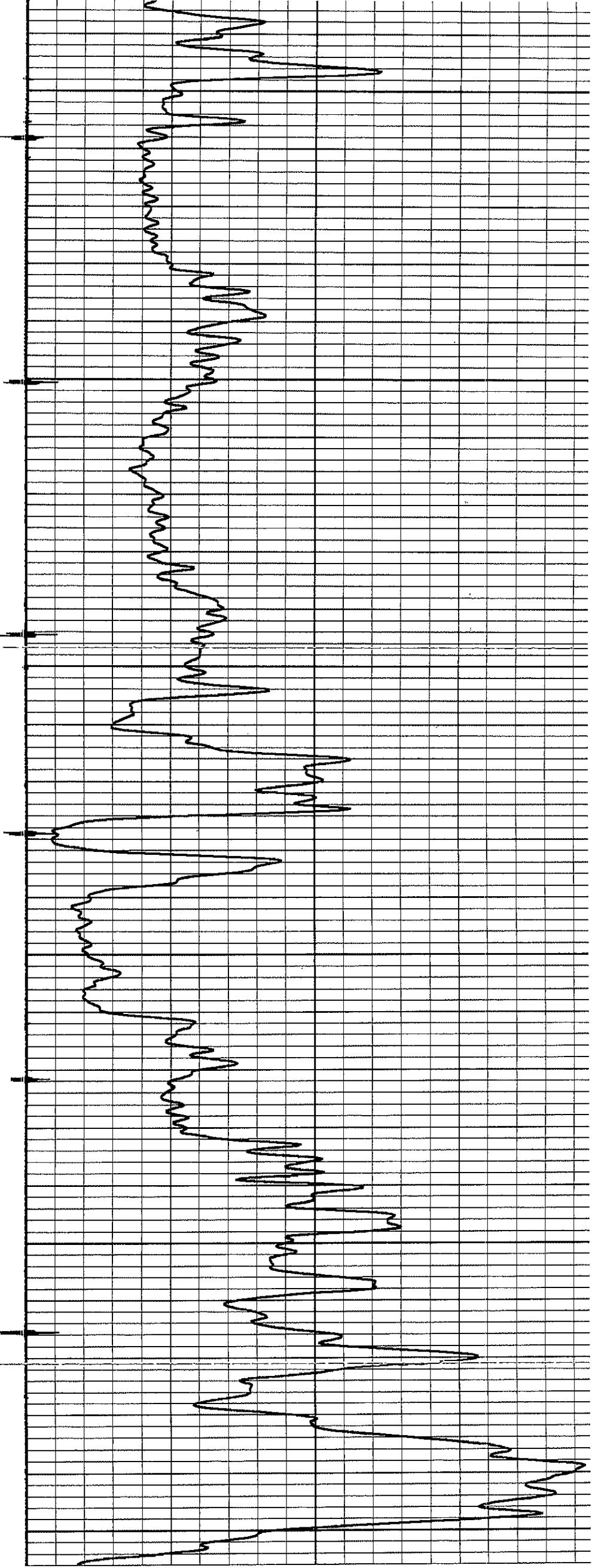
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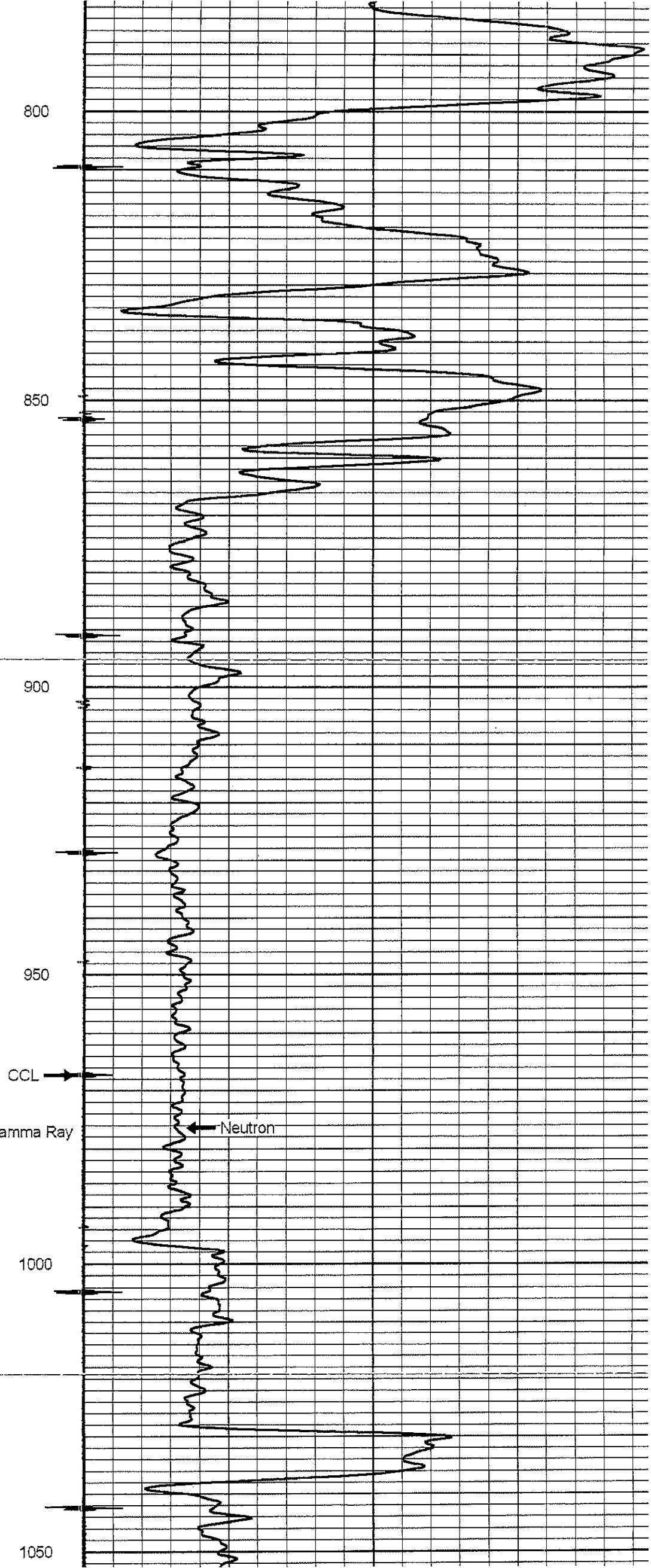
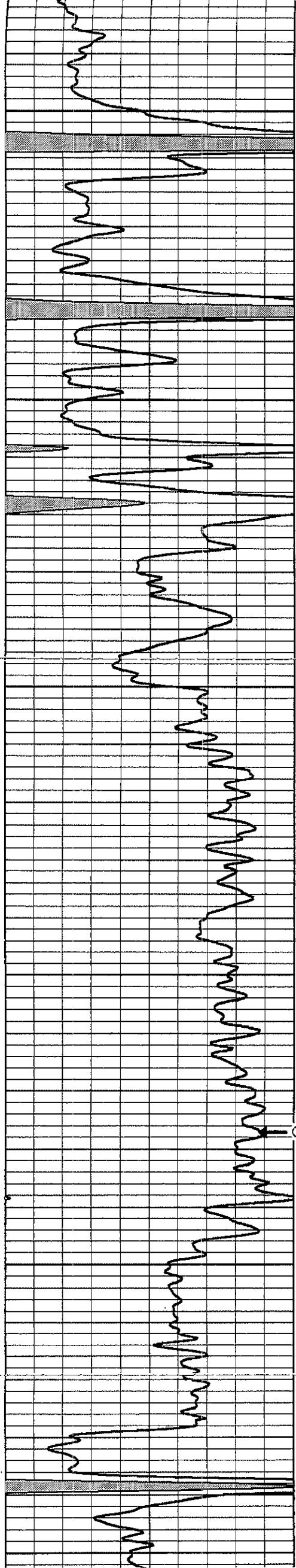
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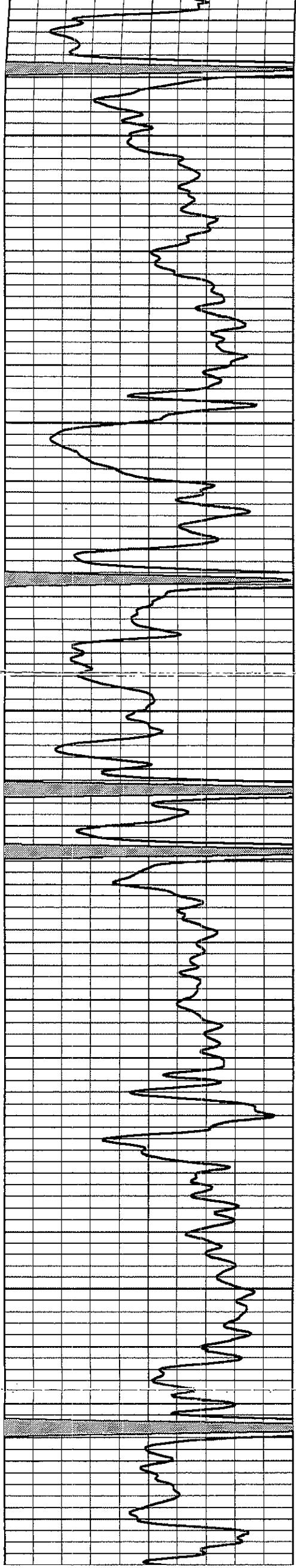
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750

800







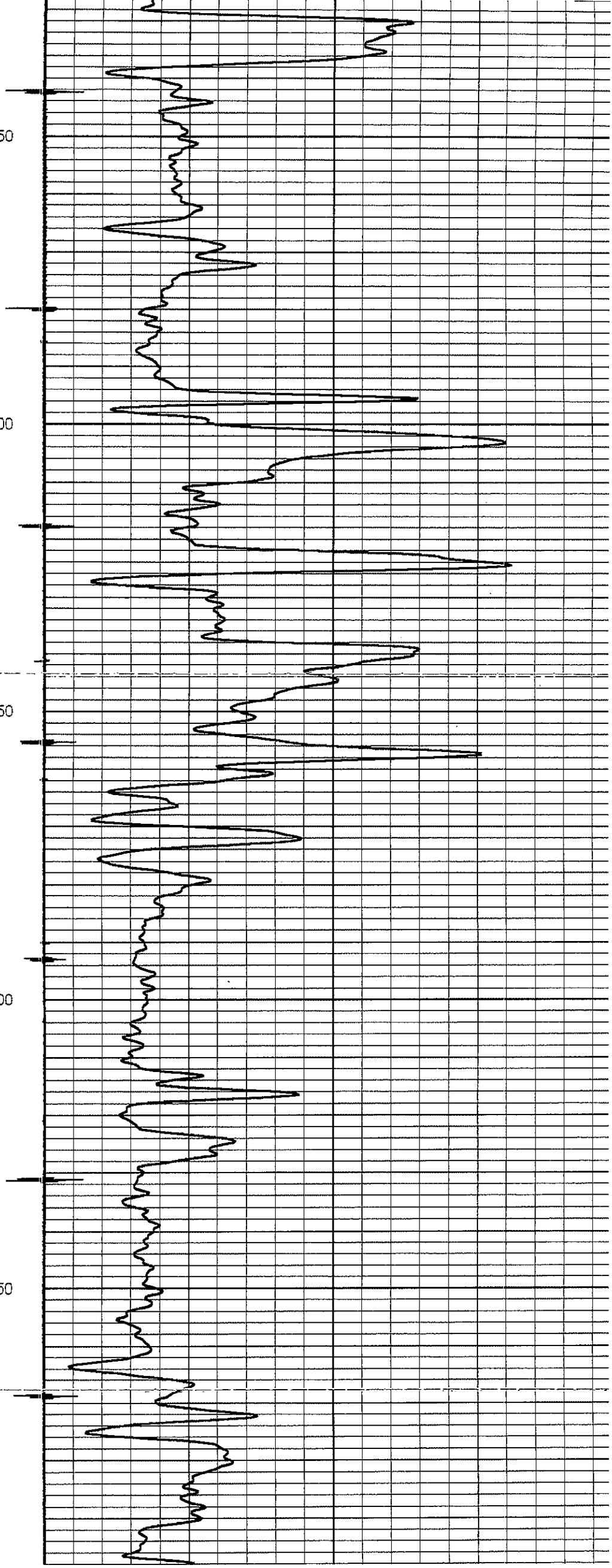
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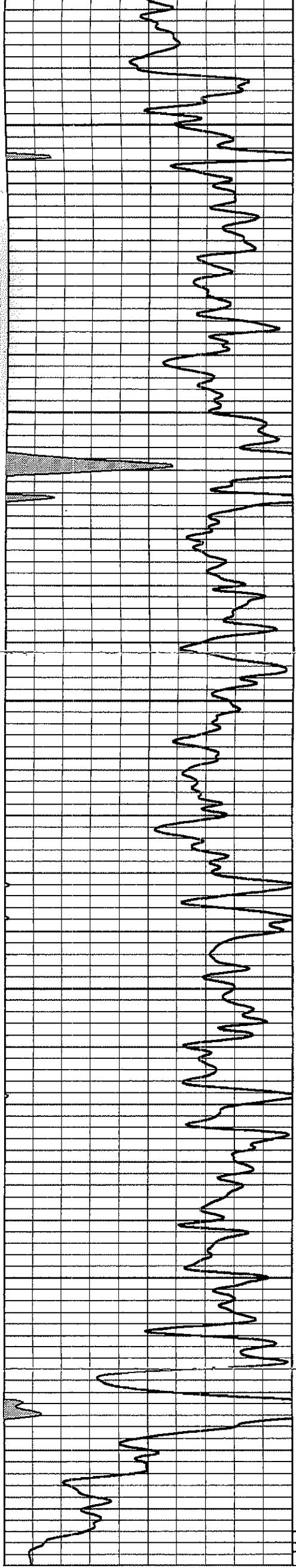
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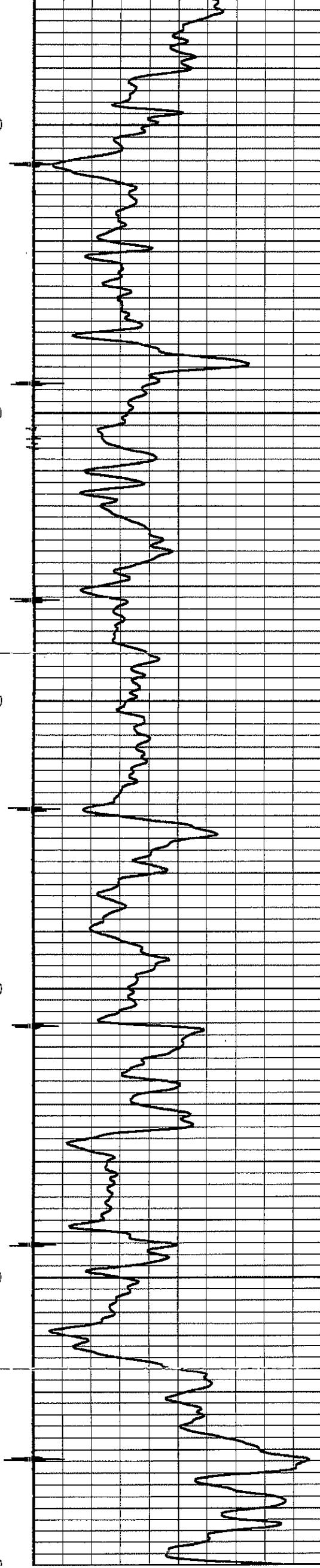
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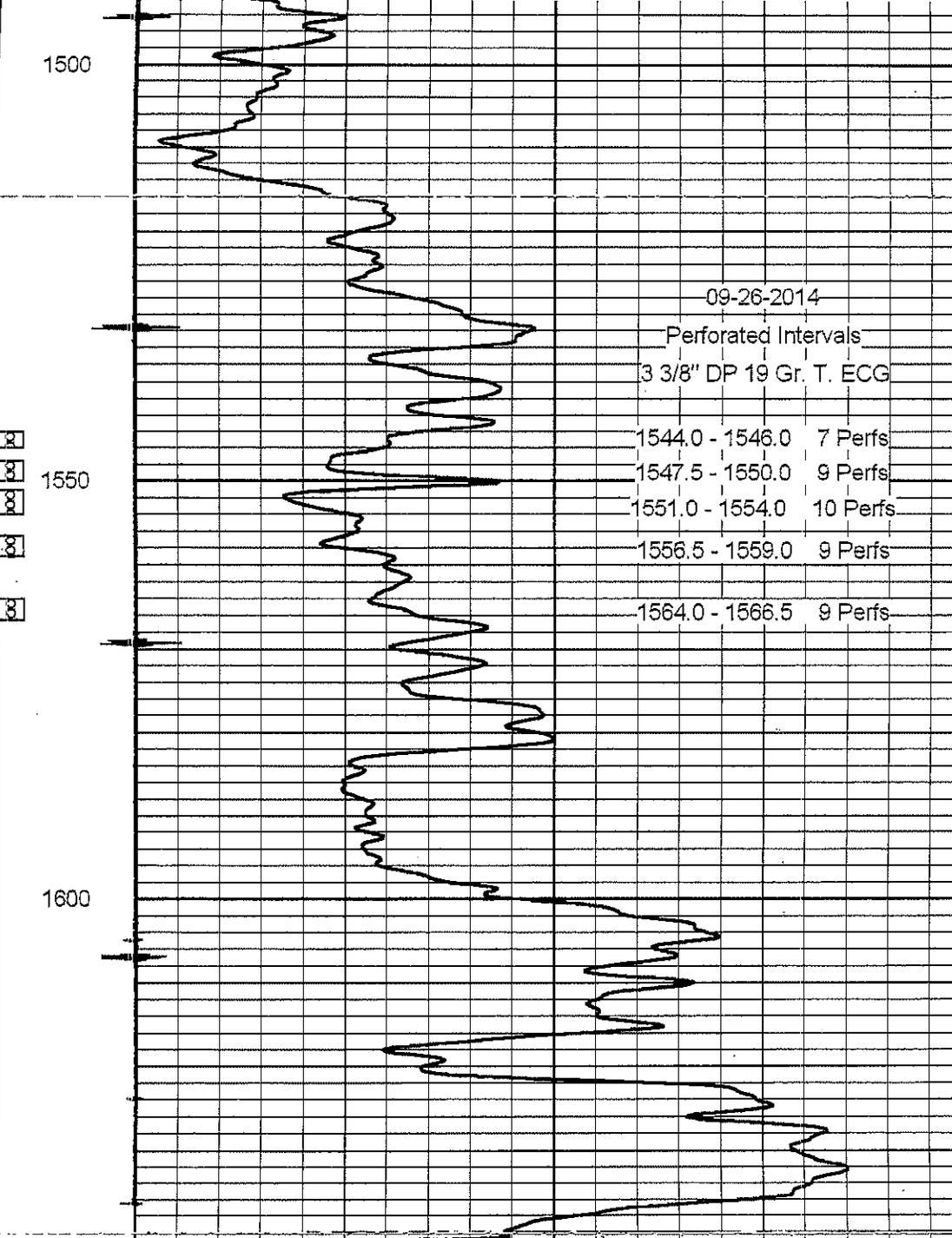
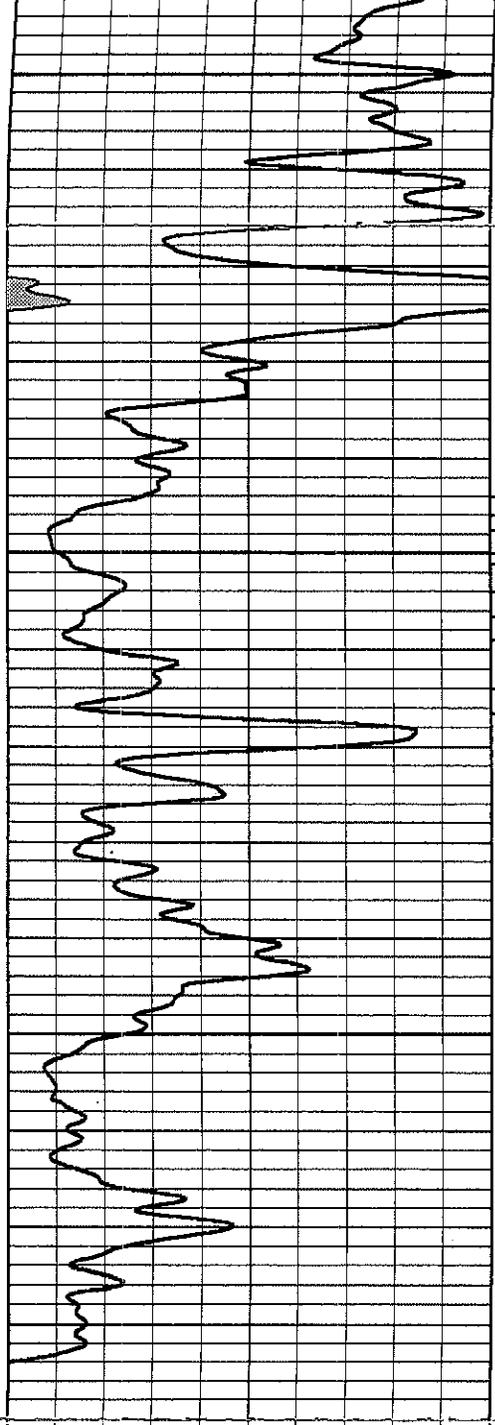




1300
1350
1400
1450
1500
1550



09-26-2014
Perforated Intervals
3 3/8" DP 19 Gr. T. ECG
1544.0 - 1546.0 7 Perfs
1547.5 - 1550.0 9 Perfs



09-26-2014

Perforated Intervals
3 3/8" DP 19 Gr. T. ECG

- 1544.0 - 1546.0 7 Perfs
- 1547.5 - 1550.0 9 Perfs
- 1551.0 - 1554.0 10 Perfs
- 1556.5 - 1559.0 9 Perfs
- 1564.0 - 1566.5 9 Perfs

0	Gamma Ray (cps)	150
150	Gamma Ray (cps)	300

-1 OCL 1
10

Neutron (cps) 210