

MIDWEST SURVEYS

LOGGING - PERFORATING - CONSULTING SERVICES
 P.O. Box 68, Osawatomie, KS 66064
 913 / 755 - 2428

GAMMA RAY / NEUTRON / CCL

AP# 15-059-26,944

File No.

Company Haas Petroleum, LLC
 Well Detar No. 3-HP
 Field Paola - Rantoul
 County Franklin State Kansas

Location
 1700' FNL & 3810' FEL
 SW-NW-SE-NW

Sec 3 Twp 16S Rge 21e

Permament Datum GL Elevation 1004'

Log Measured From GL

Drilling Measured From GL

Other Services
 Perforate

Elevation

K.B. NA
 D.F. NA
 G.L. 1004'

Date 08-07-2015

Run Number One

Depth Driller 740.0

Depth Logger 728.9

Bottom Logged Interval 727.9

Top Log Interval 20.0

Fluid Level Full

Fluid Type Water

Density / Viscosity NA

Salinity - PPM Cl NA

Max Recorded Temp NA

Estimated Cement Top 0.0

Equipment No. Location 104 Osawatomie

Recorded By Steve Windisch

Witnessed By John Haas

BORE-HOLE RECORD

CASING RECORD

Run No.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
One	9.875"	0.0	20.0	7.00"	17.0 #	0.0	20.0
Two	5.625"	20.0	740.0	2.875"	6.5 #	0.0	733.0

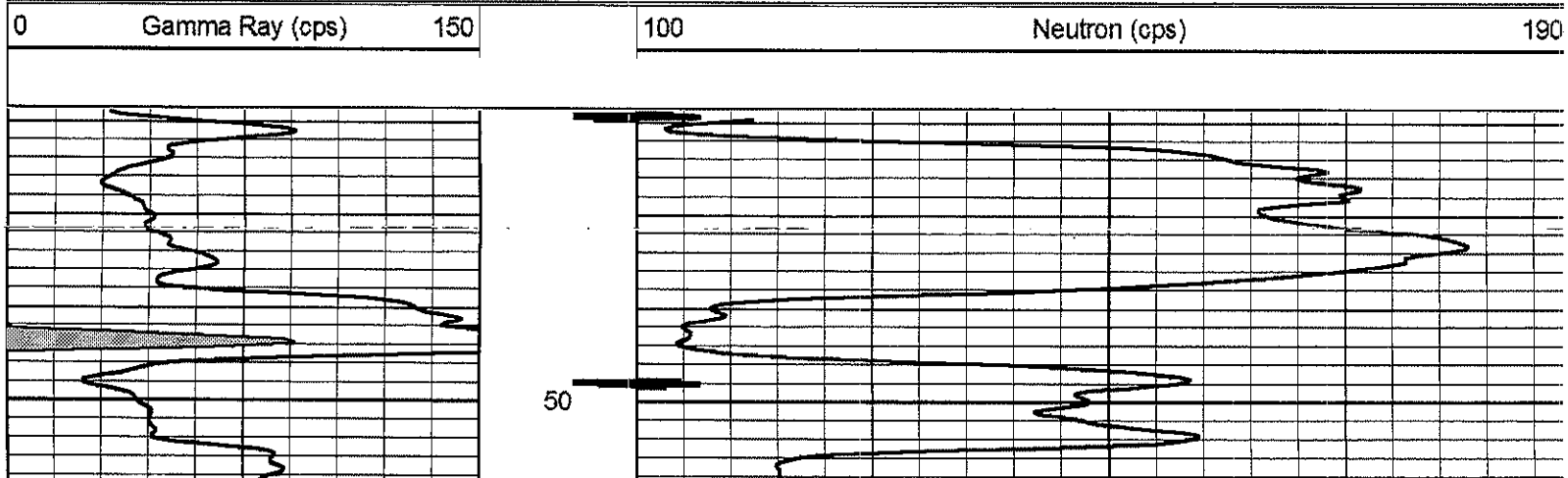
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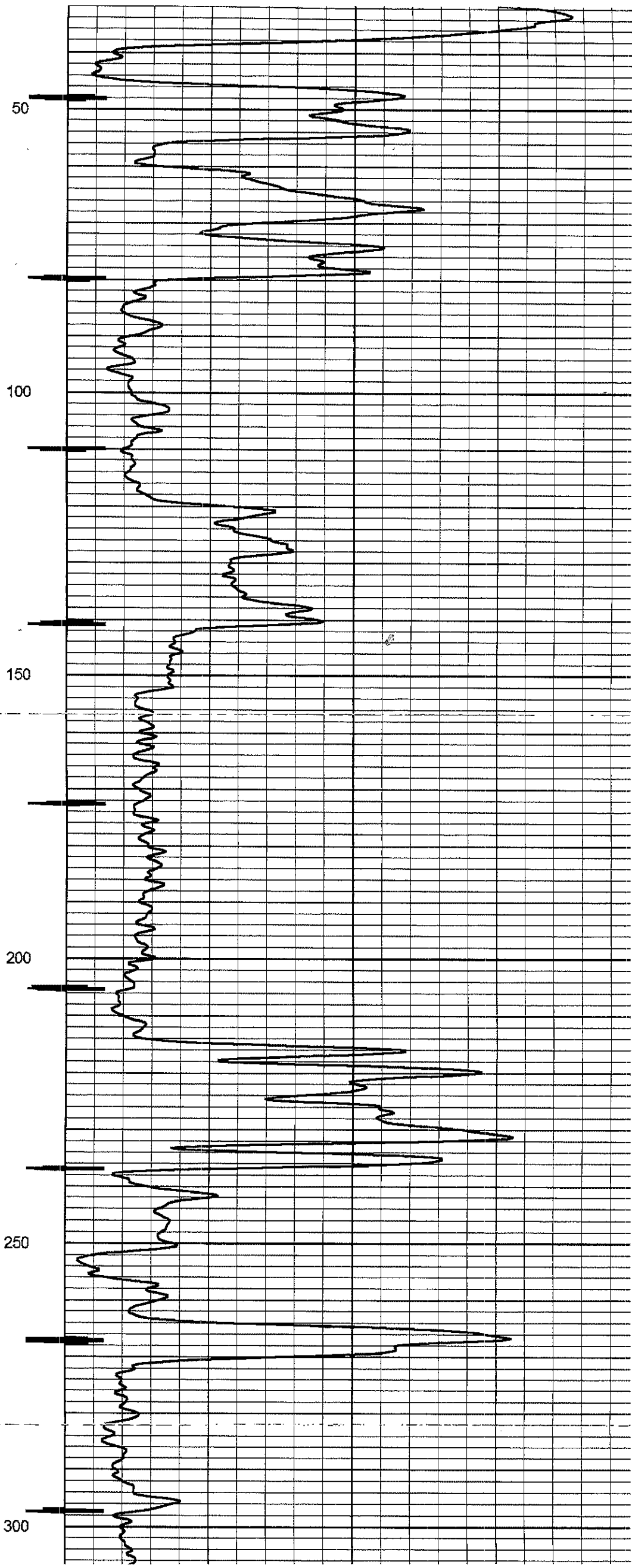
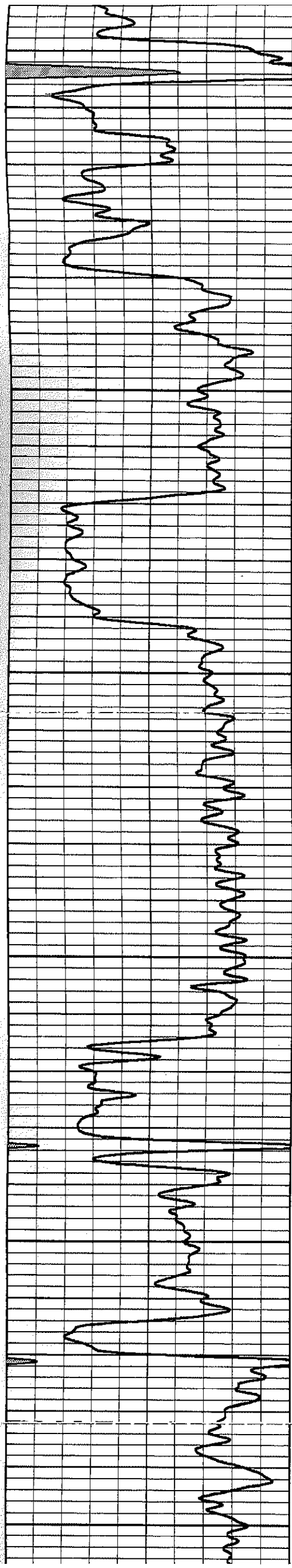
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

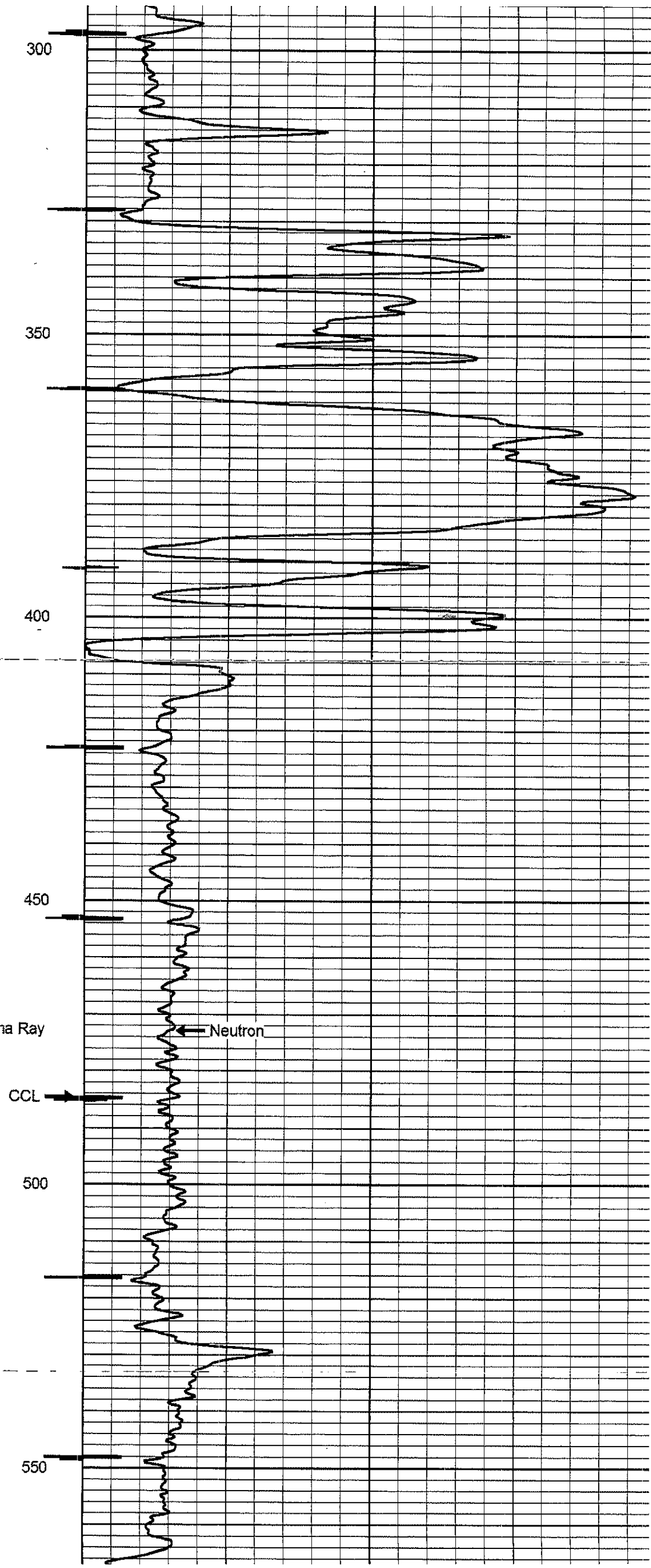
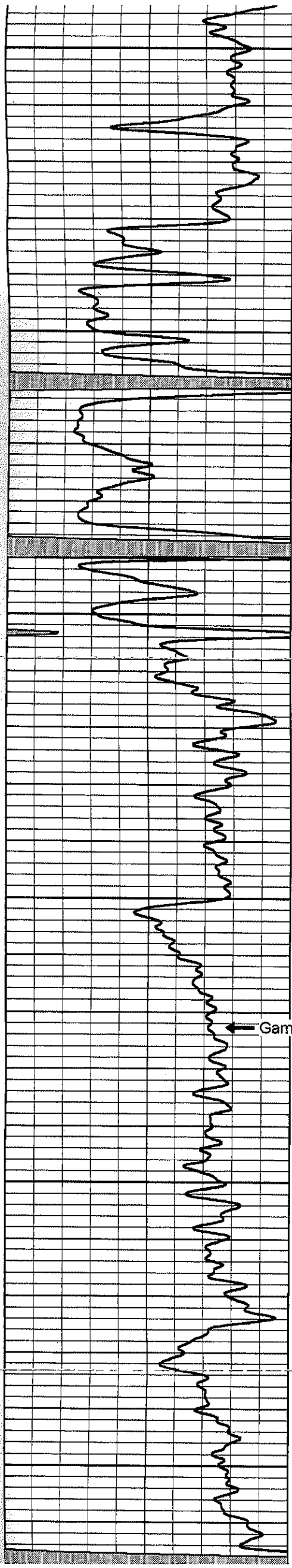
Comments

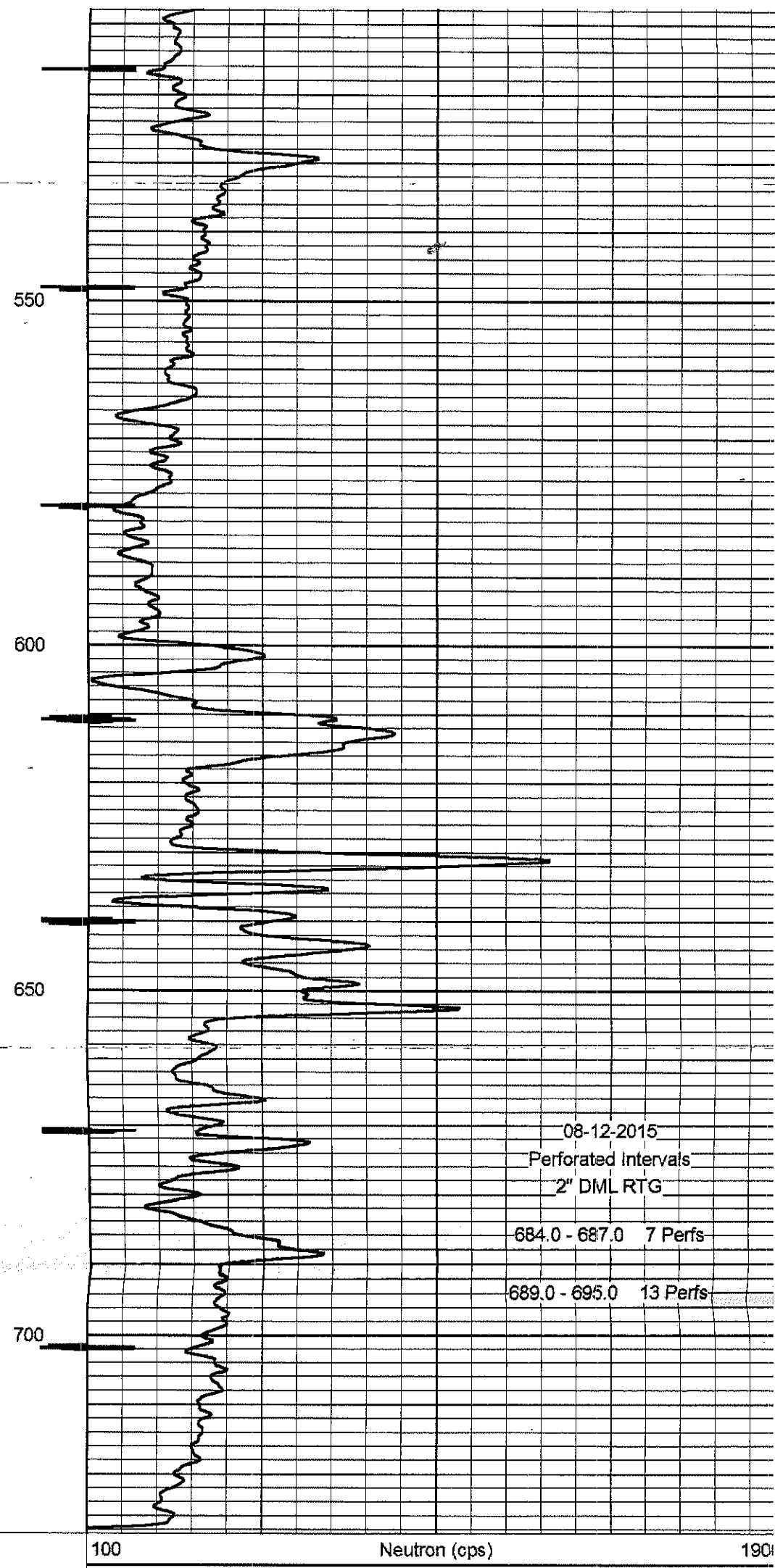
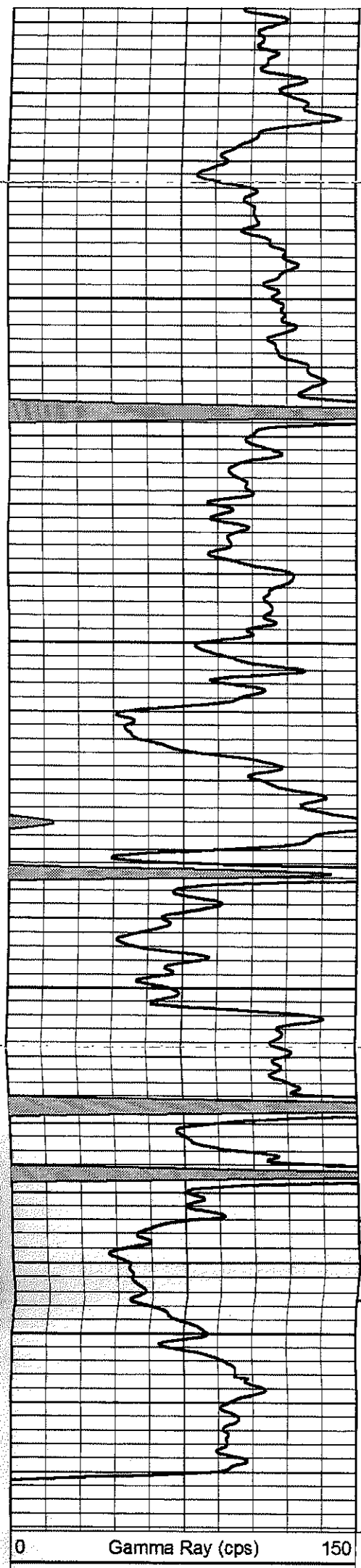
Drilling Contractor :
 Skyy Drilling, LLC

Database File: detar 3hp.db
 Dataset Pathname: pass1
 Presentation Format: gr-n-ccl
 Dataset Creation: Fri Aug 07 12:21:21 2015 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240









08-12-2015
Perforated Intervals
2" DML RTG
684.0 - 687.0 7 Perfs
689.0 - 695.0 13 Perfs

0 Gamma Ray (cps) 150

100 Neutron (cps) 190