



MIDWEST SURVEYS

LOGGING - PERFORATING - CONSULTING SERVICES

P.O. Box 68, Osawatomie, KS 66064

913 / 755 - 2128

GAMMA RAY / NEUTRON / CCL

API# 15-059-27,079

File No.

Company Haas Petroleum, LLC.

Well Sturm No. 15-HP

Field Paola / Rantoul

County Franklin State Kansas

Location

2280' FNL & 1000' FWL

NE-SE-SW-NW

Sec. 3 Twp. 16s Rge. 21e

Permanent Datum GL Elevation 1000'

Log Measured From GL

Drilling Measured From GL

Other Services

Perforate

Elevation

K.B. NA
D.F. NA
G.L. 1000'

Date 10-05-2015

Run Number One

Depth Driller 748.0

Depth Logger 740.0

Bottom Logged Interval 739.0

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. 102 Location Osawatomie

Recorded By Gary Windisch

Witnessed By John Haas

RUN

BORE-HOLE RECORD

CASING RECORD

FROM TO SIZE WGT. FROM TO

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" 20.0 748.0 2.875" 6.5 # 0.0 740.0

Three 5.625" 748.0 740.0 2.875" 6.5 # 0.0 740.0

<<< Fold Here >>>

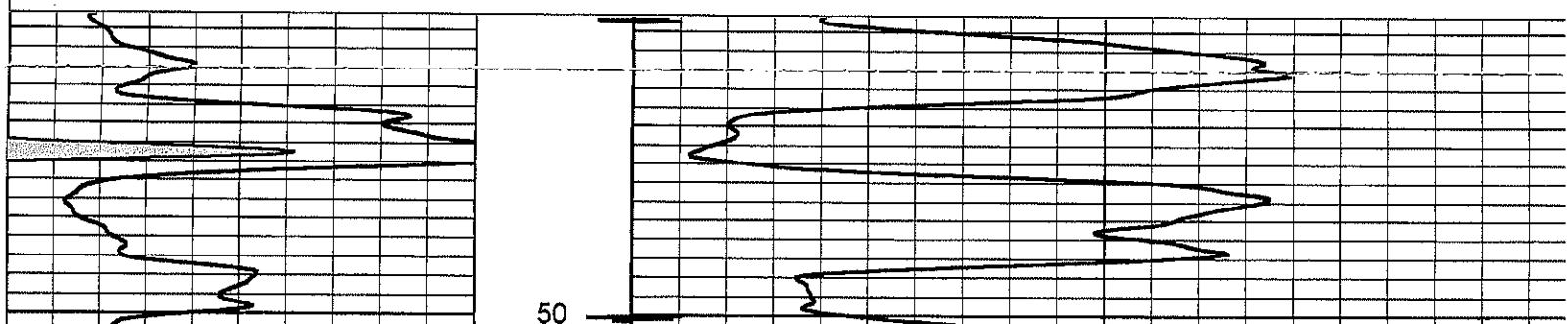
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

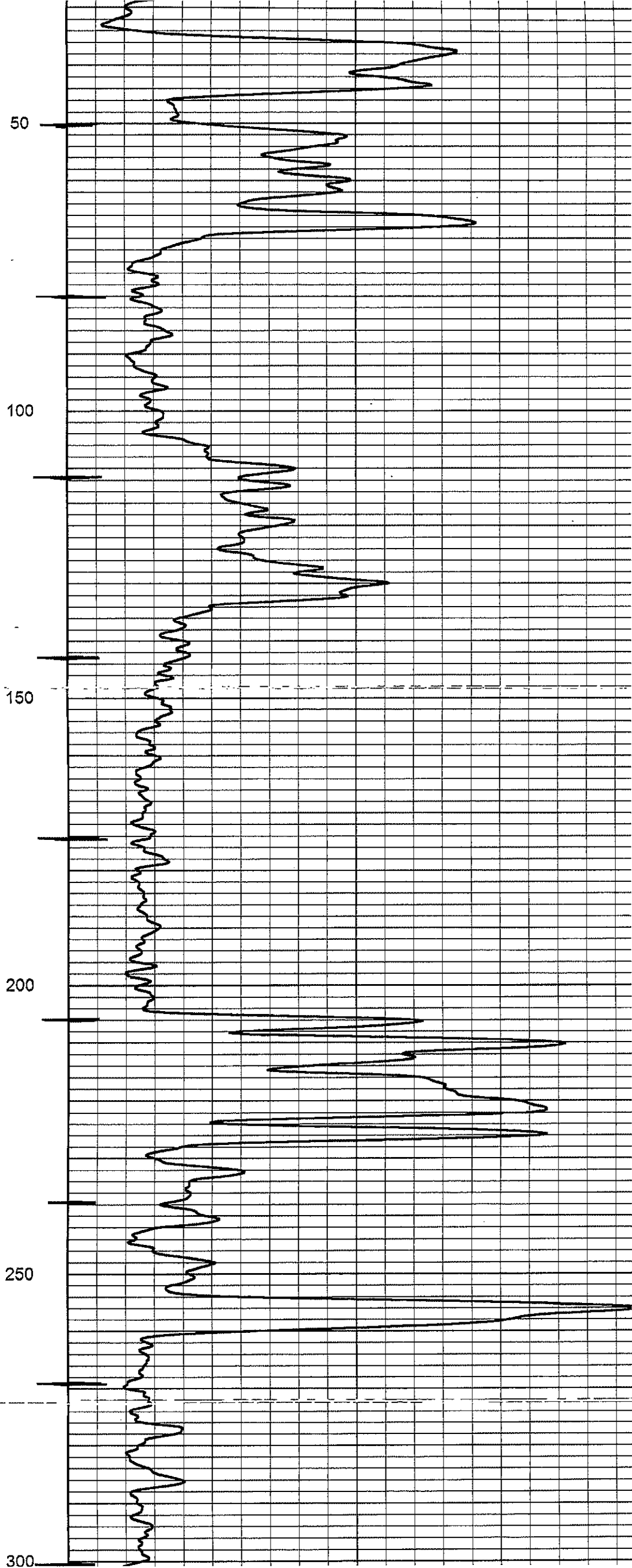
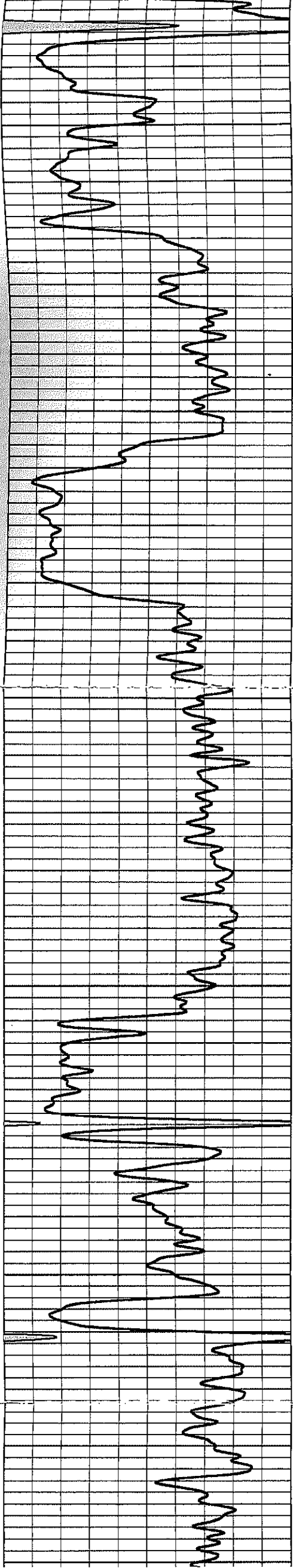
Comments

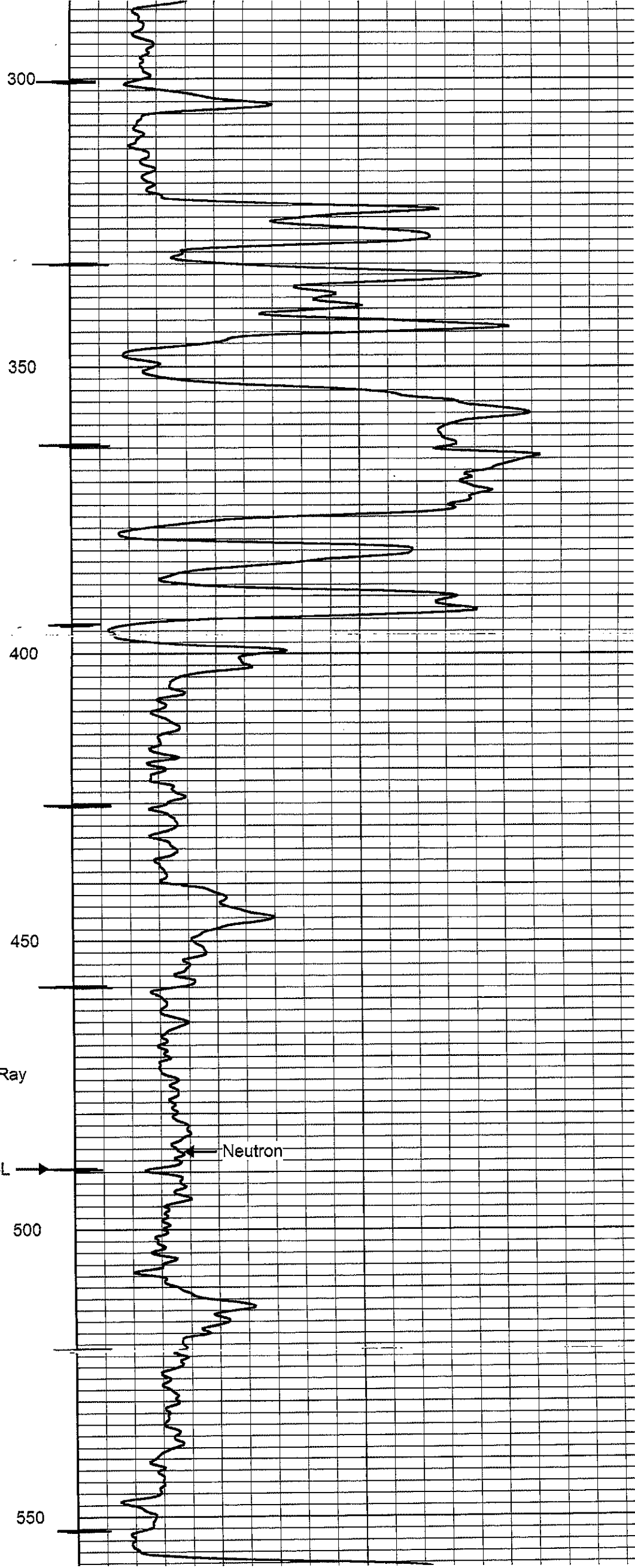
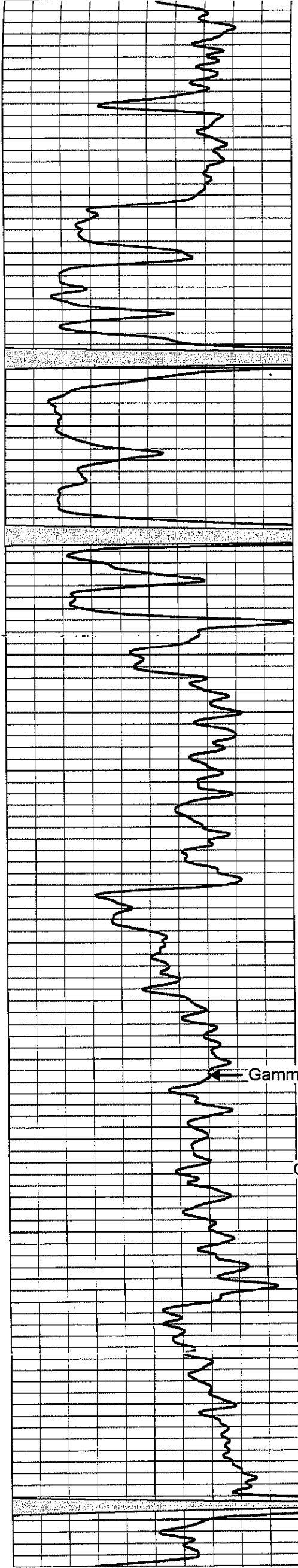
Drilling Contractor :
Skyy Drilling, LLC.
Rig #6

Database File: sturm 15hp.db
Dataset Pathname: pass1
Presentation Format: gr-n-ccl
Dataset Creation: Mon Oct 05 14:27:09 2015 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

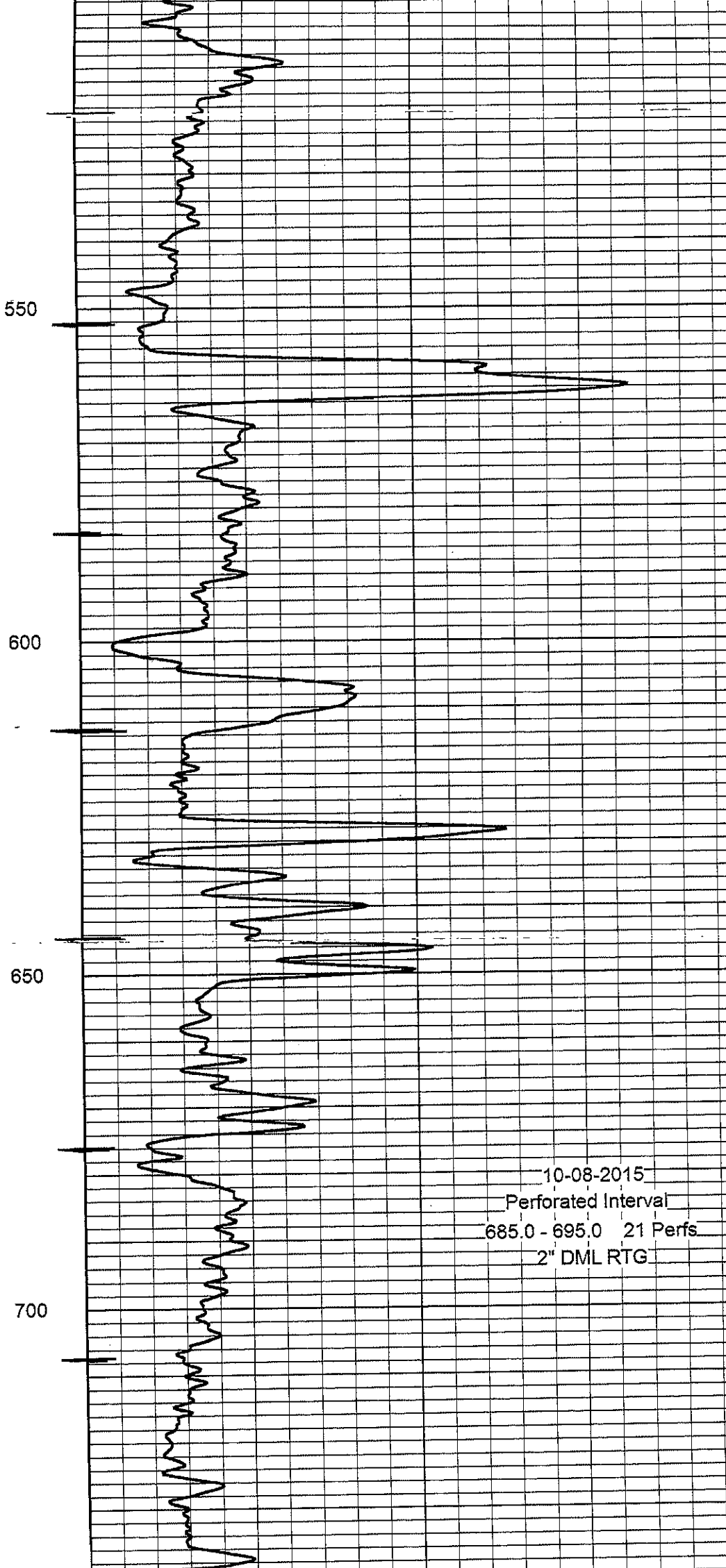
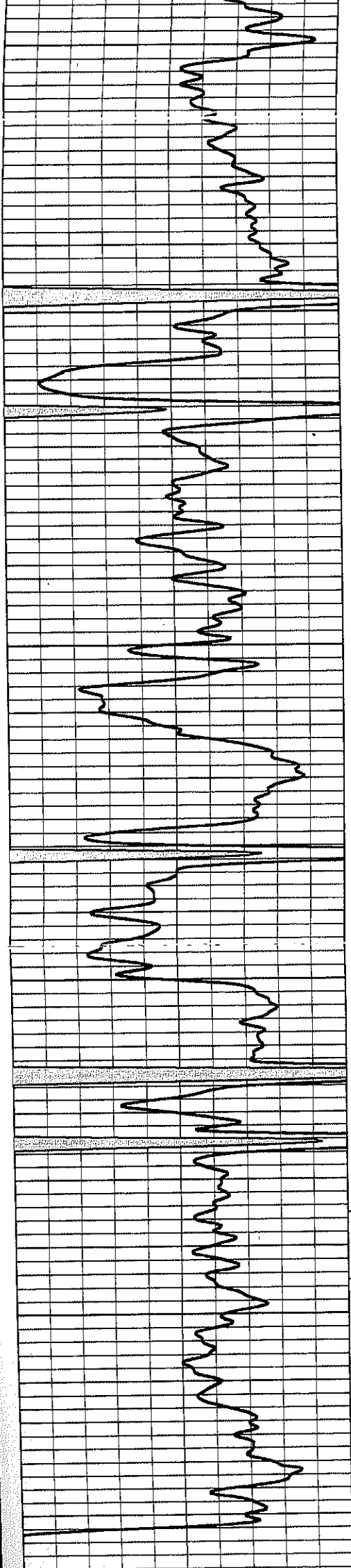
0	Gamma Ray (cps)	150	-1 CCL 1	100	Neutron (cps)	1900
150	Gamma Ray (cps)	300				







CCL →



10-08-2015
 Perforated Interval
 685.0 - 695.0 21 Perfs
 2" DML RTG

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

-1 CCL 1	Neutron (cps)	100	100
----------	---------------	-----	-----