



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

GAMMA RAY / NEUTRON / CCL

File No.

API # 15-003-25,886

Company **Haas Petroleum, LLC.**

Well **Zastrow No. 35-HP**

Field **Garnett Shoestring**

County **Anderson** State **Kansas**

Location

**495' FNL & 1055' FWL
 SE-NE-NW-NW**

Other Services
Perforate

Sec. **13** Twp. **20s** Rge. **20e**
 Permanent Datum **GL** Elevation **955'**
 Log Measured From **GL**
 Drilling Measured From **GL**

Elevation
 K.B. **NA**
 D.F. **NA**
 G.L. **955'**

Date	07-24-2013
Run Number	One
Depth Driller	820.0
Depth Logger	789.0
Bottom Logged Interval	788.0
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 No.	BORE-HOLE RECORD			CASING RECORD			
	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	820.0	2.875"	6.5 #	0.0	792.45

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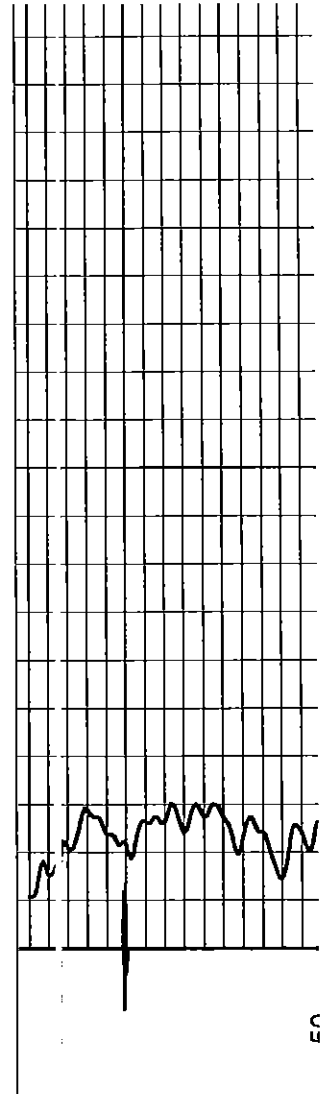
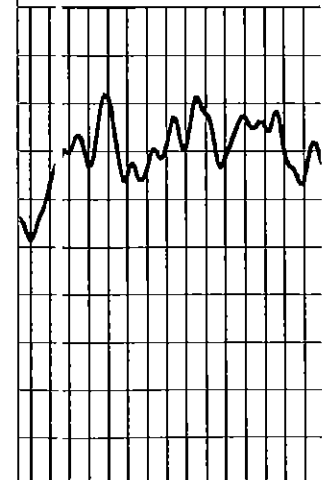
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

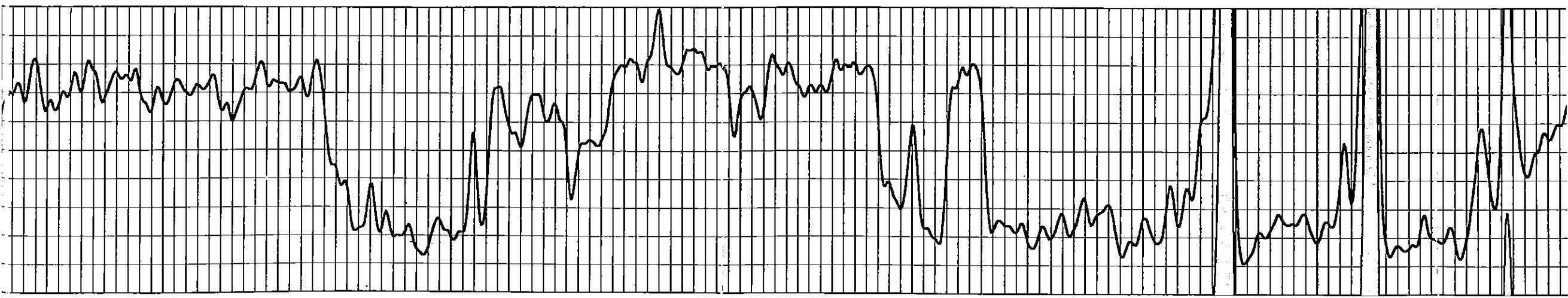
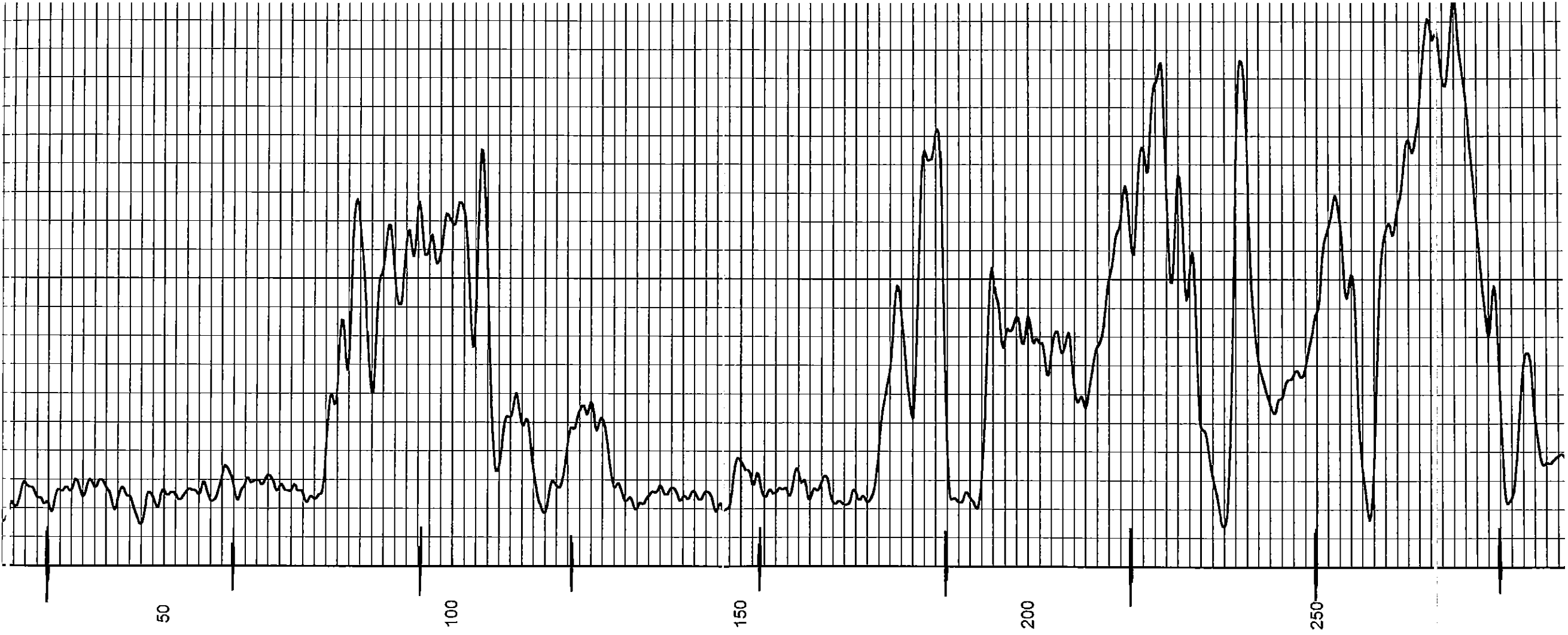
Comments

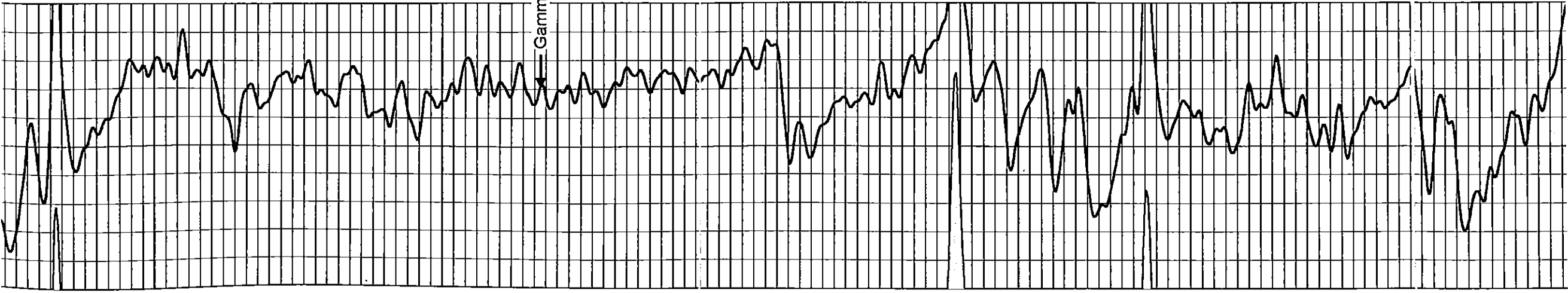
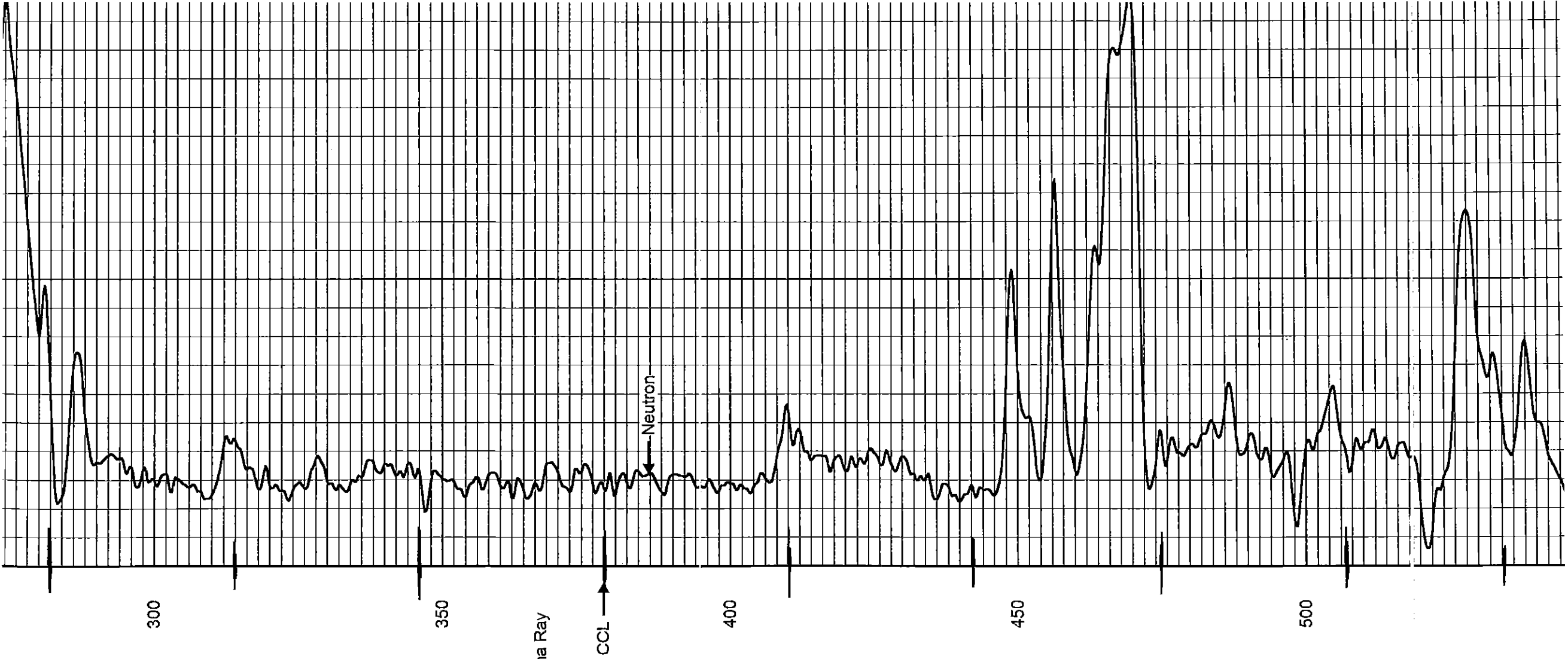
Drilling Contractor :
 Town Oilfield Services, Inc.

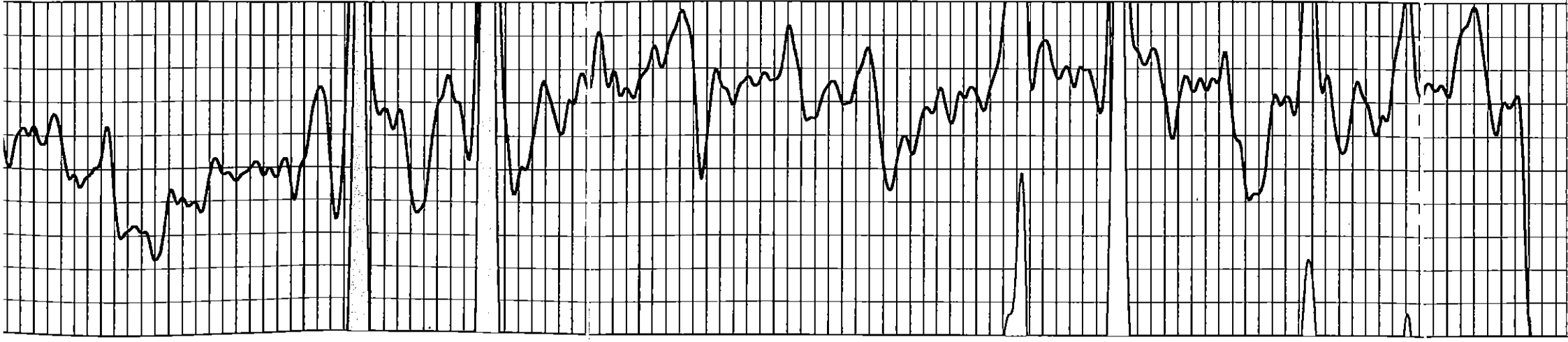
Database File: **zastrow35hp.db**
 Dataset Pathname: **pass1**
 Presentation Format: **gr-n-cci**
 Dataset Creation: **Wed Jul 24 13:26:06 2013 by Log SCH 111116**
 Charted by: **Depth in Feet scaled 1:240**

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

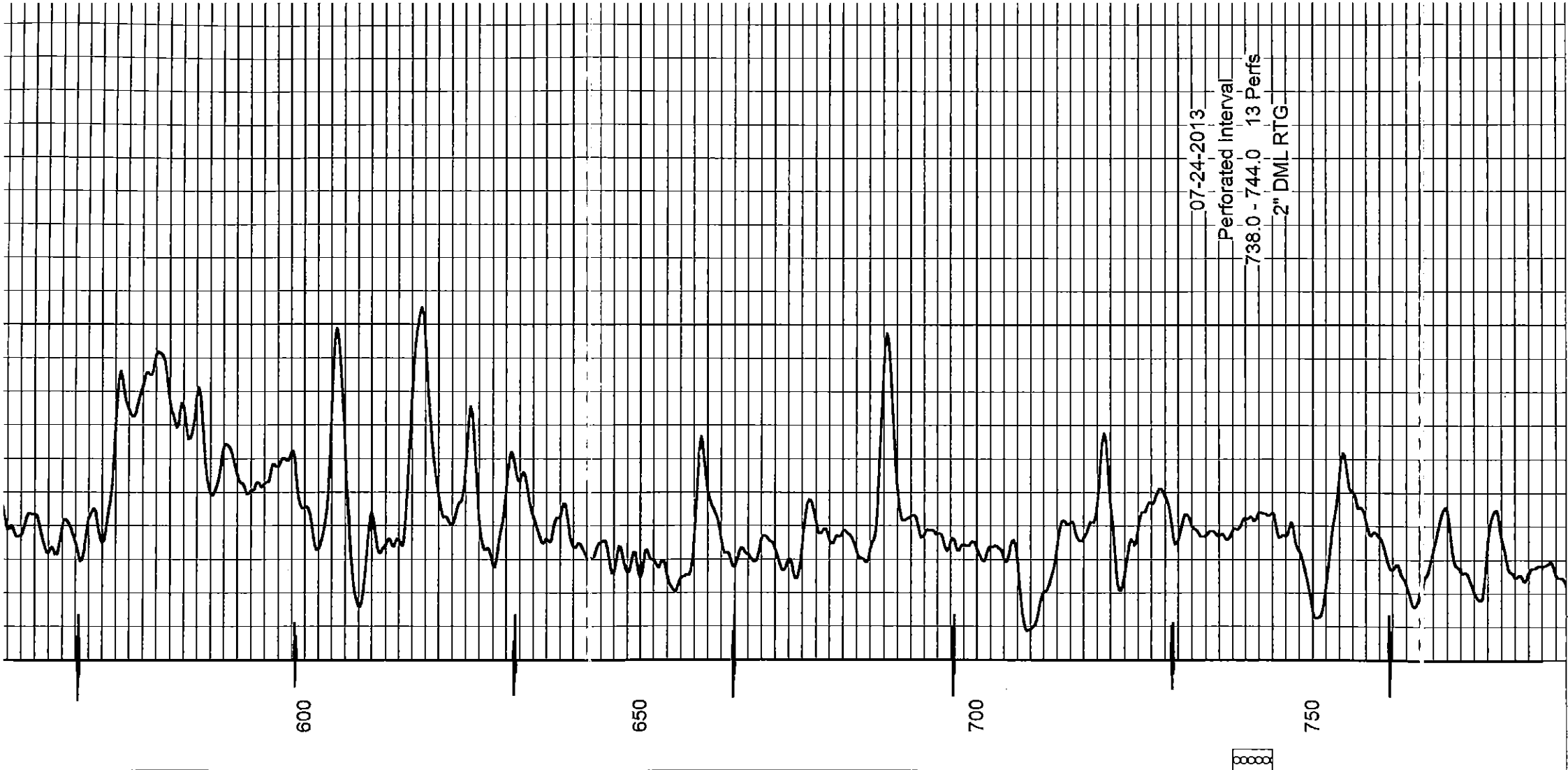








0 Gamma Ray (cps) 150
150 Gamma Ray (cps) 300



-1 CCL 1 100
Neutron (cps)
1901

07-24-2013
Perforated Interval
738.0 - 744.0 13 Perfs
2" DML RTG