



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

**GAMMA RAY / NEUTRON / CCL**

File No.

Company: **HB Energy, LLC.**  
 Well: **Schultz No. HB 1-1**  
 Field: **Vinland East**  
 County: **Douglas** State: **Kansas**

Location: **400 FSL & 2020 FEL**  
**NE-SWSW-SE**

Other Services: **Perforate**

Sec 13 Twp 14S Rge 20E  
 Permian Datum GL Elevation 971'  
 Log Measured From GL  
 Drilling Measured From GL 971'

Date: 03-30-2015  
 Run Number: One  
 Depth Driller: 838.0  
 Depth Logger: 788.8  
 Bottom Logged Interval: 787.8  
 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.: 102 Location: Osawatimie  
 Recorded By: Gary Windisch  
 Witnessed By: Gary Hughes

BORE-HOLE RECORD

RUN No.	BIT FROM	TO	SIZE	WGT.	FROM	TO
One	11.00"	45.0	7.00"	17.0 #	0.0	45.0
Two	5.625"	45.0	2.875"	6.5 #	0.0	822.0
			Bitfile	Set	At	792.0

CASING RECORD

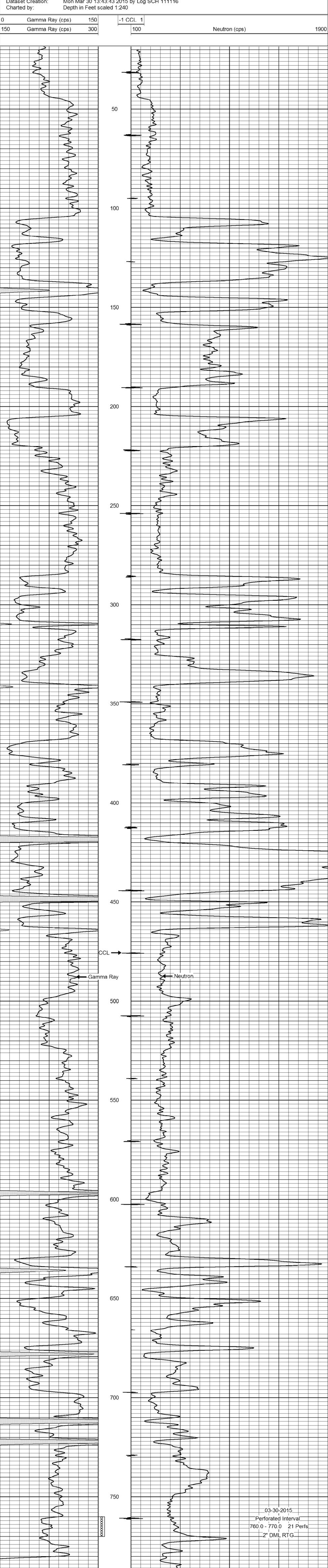
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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 :  
 HB Energy, LLC.

Database File: schultz 1ihb.db  
 Dataset Pathname: pass1  
 Presentation Format: gr-n-ccl  
 Dataset Creation: Mon Mar 30 13:43:43 2015 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