



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

GAMMA RAY / NEUTRON / CCL

File No.

Company **JRC Oil Company, Inc.**
 Well **Cleveland No. CZ-46**
 Field **Bush City Shoesting**
 County **Anderson** State **Kansas**

Location **4786' FSL & 3970' FEL**
SE-NE-NW-1/4

Sec. 33 Typ. 20s Rge. 21e Elevation N/A
 Permanent Datum GL GL
 Log Measured From GL
 Drilling Measured From GL

Date **09-16-2013**

Run Number **One**

Depth Difer **735.0**

Depth Logger **735.0**

Bottom Logged Interval **724.0**

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. **107** Location **Osawatomie**
 Recorded By **Steve Wandisch**
 Witnessed By **Mike Colvin**

BORE-HOLE RECORD

RUN	BIT	FROM	TO	SIZE	WGT.	FROM	TO
One	9.875"	0.0	22.0	7.00"	17.0 #	0.0	22.0
Two	5.625"	22.0	735.0	2.875"	6.5 #	0.0	731.42

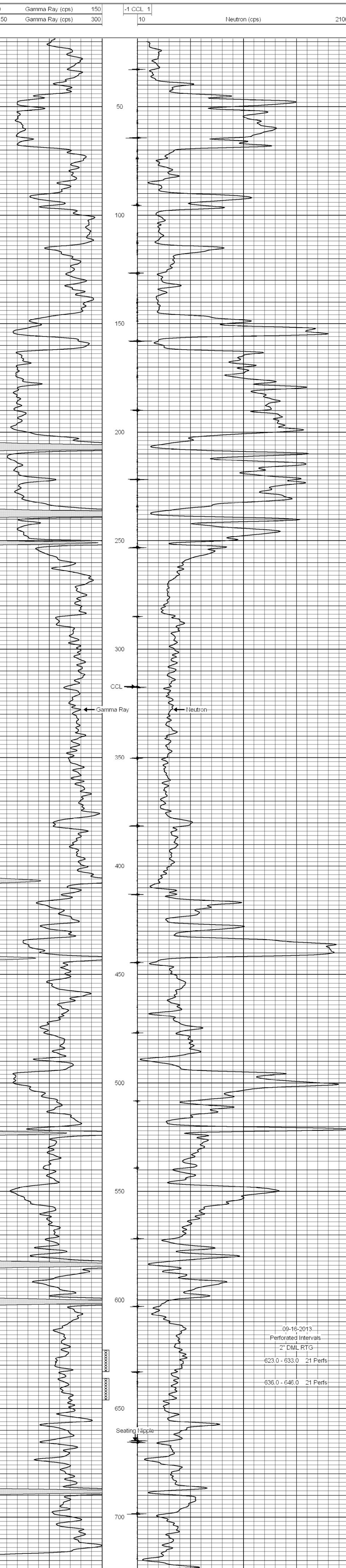
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on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

Database File: cleveland46cz.db
 Dataset Pathname: pass1
 Presentation Format: gr-n-ccl
 Dataset Creation: Mon Sep 16 13:22:50 2013 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240



09-16-2013
 Perforated Intervals
 2" DML RTG
 623.0 - 633.0 21 Perfs
 636.0 - 646.0 21 Perfs

0 Gamma Ray (cps) 150
 150 Gamma Ray (cps) 300
 -1 CCL 1
 10 Neutron (cps) 2100