



**MIDWEST SURVEYS**  
 LOGGING - PERFORATING - CONSULTING SERVICES  
 P.O. Box 66, Osawatomie, KS 66064  
 913 / 755 - 2128

**GAMMA RAY / NEUTRON / CCL**

File No.

Company **Haas Petroleum, LLC.**

Well **Zastrow No. 23i-HP**

Field **Garnett Shoestring**

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

Location **1040' FNL & 40' FEL**

Location **SE-SE-NE-NE**

Location **Sec. 14 Twp. 20S Rge. 20E**

Permanent Datum **GL** Elevation **944'**

Log Measured From **GL**

Drilling Measured From **GL**

Date **07-14-2014**

Run Number **One**

Depth Driller **780.0**

Depth Logger **758.0**

Bottom Logged Interval **757.0**

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**

Other Services  
**Perforate**

Equipment No. **102** Location **Osawatomie**

Recorded By **Gary Windisch**

Witnessed By **John Haas**

BORE-HOLE RECORD

CASING RECORD

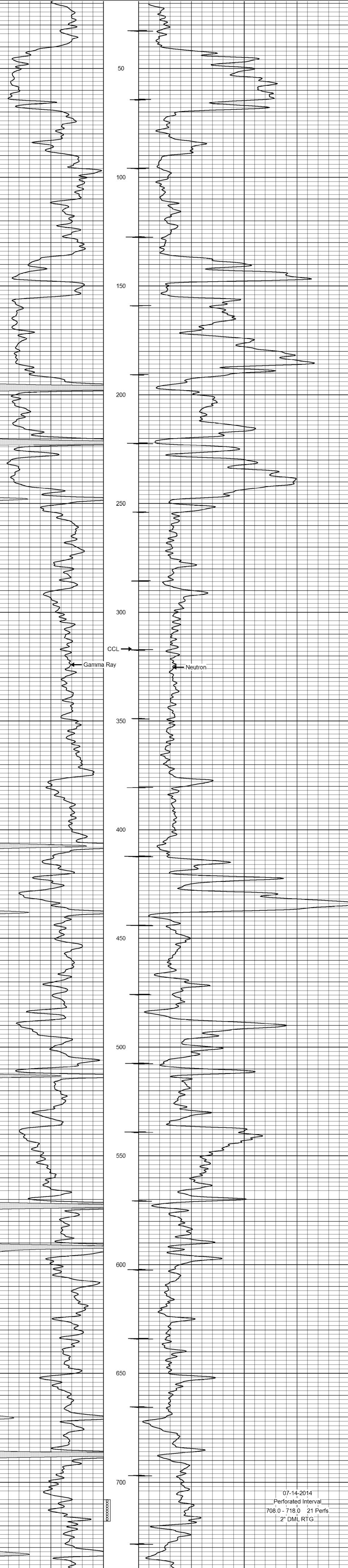
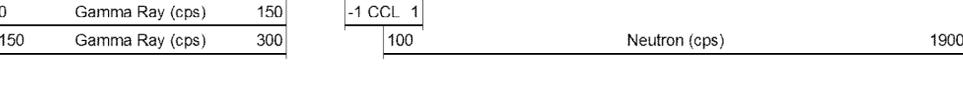
<<< Fold Here >>>

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 :  
**Town Oilfield Services, Inc.**

Database File: **zastrow23ihp.db**  
 Dataset Pathname: **pass1**  
 Presentation Format: **gr-n-ccl**  
 Dataset Creation: **Mon Jul 14 11:54:56 2014 by Log SCH 111116**  
 Charted by: **Depth in Feet scaled 1:240**



07-14-2014  
 Perforated Interval  
 708.0 - 718.0 21 Perfs  
 2" DML RTG

