



MIDWEST SURVEYS
 LOGGING - PERFORATING - CONSULTING SERVICES
 P.O. Box 68, Osawatomie, KS 68064
 913 / 755 - 2128

GAMMA RAY / NEUTRON / CCL

File No. _____

Company: **Vast Petroleum Of Kansas, LLC**

Well: **Jewel J. Shikels No. 1-15**

Field: **Goodrich - Parker**

County: **Lin** State: **Kansas**

Location: **4620' FSL & 330' FEL**

Other Services: **Perforate**

Sec. **25** Twp. **20S** Rge. **21E**

Permanent Datum: **GL** Elevation: **NA**

Log Measured From: **GL** K.B. **NA**

Drilling Measured From: **GL** D.F. **NA**

Date: **09-26-2013**

Run Number: **One**

Depth Driller: **700.0**

Depth Logger: **690.6**

Bottom Logged Interval: **649.6**

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 Winkesch**

Witnessed By: **Billy Wilson**

| BORE-HOLE RECORD | | CASINGS RECORD | | | | | |
|------------------|--------|----------------|-------|--------|--------|------|-------|
| Run No. | 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 | 700.0 | 2.875" | 6.5 # | 0.0 | 688.0 |
| | | | | Baffle | Set | At | 655.0 |

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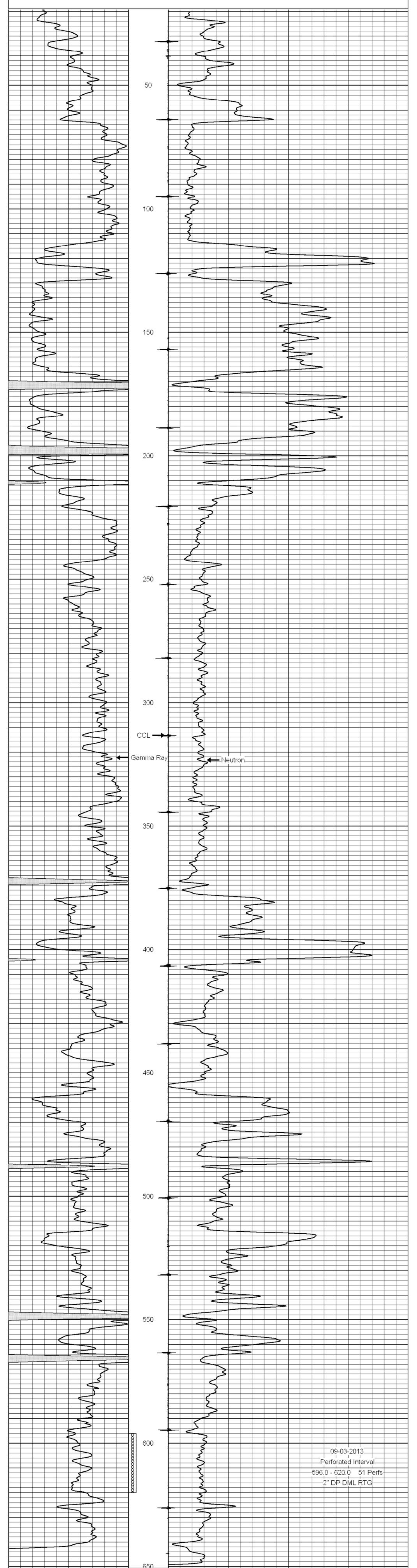
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Database File: shikels15i.db
 Dataset Pathname: pass1
 Presentation Format: gr-n-ccl
 Dataset Creation: Mon Aug 26 14:31:25 2013 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240

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



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

09-03-2013
 Perforated Interval
 596.0 - 620.0 51 Perfs
 2" DP DML RTG