# MIDWEST SURVEYS

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

## GAMMA RAY / NEUTRON / CCL

API # 15-121-29,312

File No.

| | |
|---|---|
| Company | Patrick Development Corporation |
| Well | Grandon No.- 25 |
| Field | Paola - Rantoul |
| County | Miami State Kansas |

Location: 865' FSL & 165' FWL, SW-NW-SW-SW
Sec. 9 Twp. 17s Rge. 22e

Other Services: Perforate

| | | Elevation | |
|---|---|---|---|
| Permanent Datum | GL | Elevation NA | K.B. NA |
| Log Measured From | GL | | D.F. NA |
| Drilling Measured From | GL | | G.L. NA |

| | | | | | |
|---|---|---|---|---|---|
| Date | 12-14-2012 | | | | |
| Run Number | One | | | | |
| Depth Driller | 700.0 | | | | |
| Depth Logger | 692.0 | | | | |
| Bottom Logged Interval | 691.0 | | | | |
| 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. Location | 102 Osawatomie | | | | |
| Recorded By | Steve Vandisch | | | | |
| Witnessed By | Bob Reusch | | | | |

| RUN | BORE-HOLE RECORD | | | CASING RECORD | | | |
|---|---|---|---|---|---|---|---|
| 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 | 694.0 |
| | | | | | | | |
| | | | | | | | |

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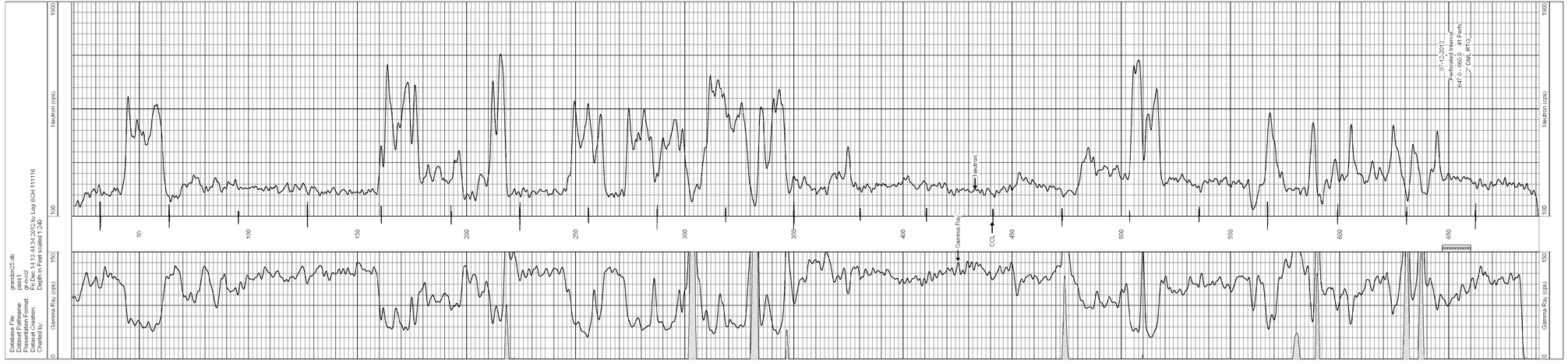
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting 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