



## Computer Processed Interpretation

DIGITAL LOG (785) 625-3858

API No.

15-015-23822-00-00

Company Noble Petroleum, Inc.

Well Klaassen No. 2

Field Plum Grove South

County Butler State Kansas

Location

2580' FSL & 990' FEL

Sec: 27 Twp: 24 S Rge: 4 E

Other Services

DIL/CNL/CDL

Permanent Datum Ground Level Elevation 1384

Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing K.B. 1393  
D.F. 1384  
G.L. 1384

Date Recorded 6/14/2009

Depth Logger 2625

Curve Definitions

SW Water Saturation

SXO Water Saturation In The Flushed Zone

VCL Volume Of Clay

PHIE Density - Neutron Crossplot Shale Corrected

BVV Bulk Volume Water

BVWSXO Bulk Volume Water In Flushed Zone

DCAL Caliper

SPC SP Corrected For Baseline

DGA Apparent Grain Density

Payflag If: PHIE> 2 %, VCL< 40 %, SPC> -10 , SW< 50 % & DCAL< 11

Recorded By B. Becker

Witnessed By Jerry Honas

Analysis By Butch Drylie

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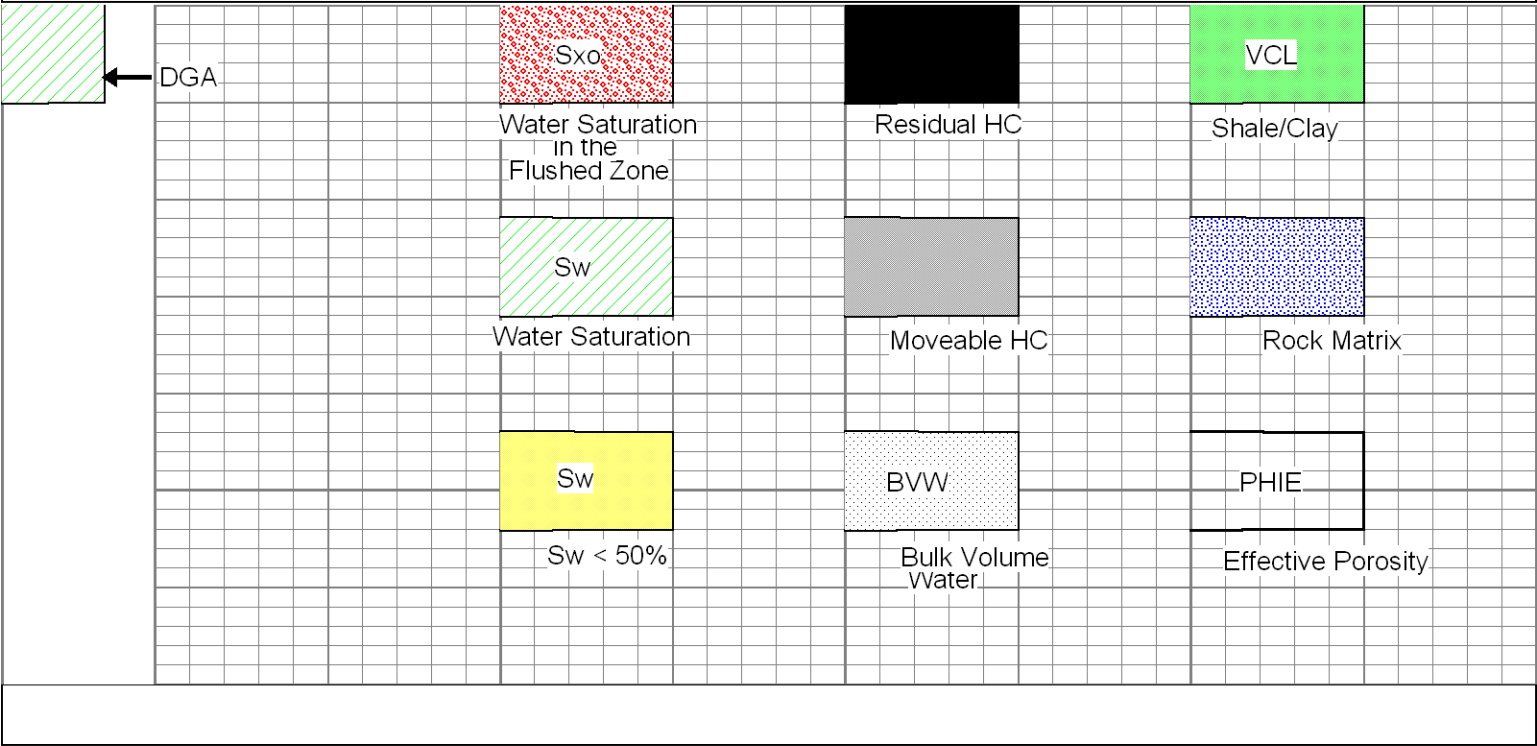
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### Comments

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Potwin, Ks; 1/2 East to River Valley Rd; 1/2 North to 80th;  
2 East to Ohio; 3/4 South; West Into past other pump jack

Database File: c:\warrior\data\cross plots\2wxplt.db  
Dataset Pathname: litho  
Presentation Format: 2wxplt  
Dataset Creation: Thu Apr 24 14:32:02 1997  
Charted by: Depth in Feet scaled 1:240



|                      |     |                            |     |             |     |     |         |     |        |      |   |   |      |   |
|----------------------|-----|----------------------------|-----|-------------|-----|-----|---------|-----|--------|------|---|---|------|---|
| Database File:       |     | noblehd.db                 |     |             |     |     |         |     |        |      |   |   |      |   |
| Dataset Pathname:    |     | DIL/nocpi                  |     |             |     |     |         |     |        |      |   |   |      |   |
| Presentation Format: |     | calc                       |     |             |     |     |         |     |        |      |   |   |      |   |
| Dataset Creation:    |     | Sun Jun 14 16:31:17 2009   |     |             |     |     |         |     |        |      |   |   |      |   |
| Charted by:          |     | Depth in Feet scaled 1:240 |     |             |     |     |         |     |        |      |   |   |      |   |
| 20                   | CLF | 1                          | 0   | Gamma Ray   | 150 | 1   | SW      | 0   | 0.3    | PHIE | 0 | 0 | VCL  | 1 |
| 2.6                  | LM  | 3.1                        | 6   | DCAL (GAPI) | 16  | 30  | PAYFLAG | 0   | 0.3    | BVW  | 0 | 1 | PHIE | 0 |
| DGA                  |     | -150                       | SPC | 0           | 1   | SXO | 0       | 0.3 | BVWSXO | 0    |   |   |      |   |
| 2.6                  | 3.1 |                            |     |             |     |     |         |     |        |      |   |   |      |   |
|                      |     |                            |     |             |     |     |         |     |        |      |   |   |      |   |

