



Computer Processed
Interpretation

DIGITAL LOG (785) 625-3858

API No.		Company Noble Petroleum, Inc.			
15-015-23,909-00-00		Well Sommers No. 2		Field Plum Grove South	
		County Butler		State Kansas	
		Location 3922' FSL & 2970' FEL		Other Services DIL/CNL/CDL	
Permanent Datum Log Measured From Kelly Bushing		Ground Level Kelly Bushing		Elevation 1369	
Drilling Measured From Kelly Bushing		9 Ft. Above Perm. Datum		K.B. 1378 D.F. 1369 G.L. 1369	
Date Recorded	8/3/2011				
Depth Logger	2619	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	D.Kerr				
Witnessed By	Jerry Honas				
Analysis By	T. Martin				

<<< Fold Here >>>

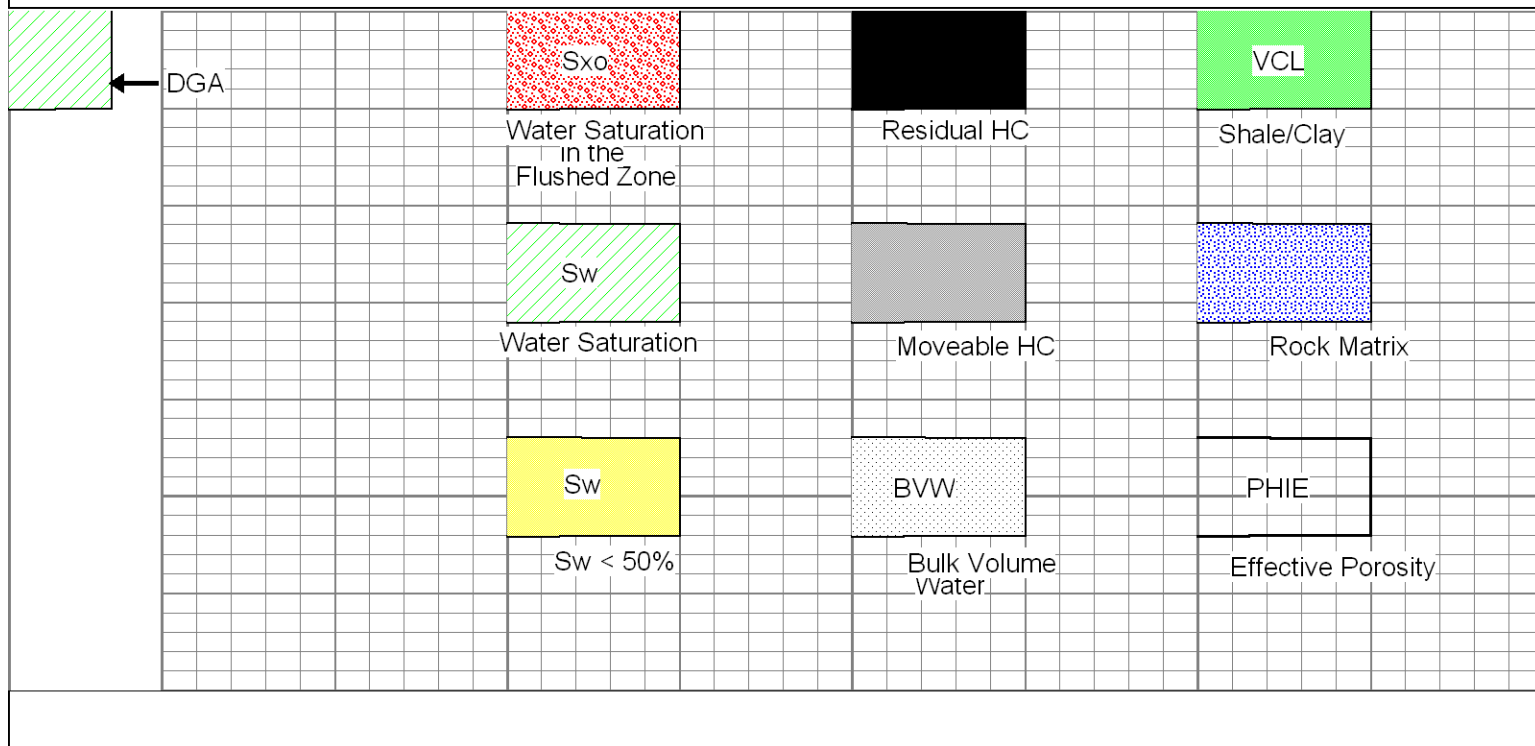
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Thank you for using Log-Tech, Inc.
www.logtechinc.com

Potwin KS, 1/2 East to River Valley RD,
1/2 North, 1 1/4 East, South Into

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: noble_sommers_2hd.db
 Dataset Pathname: dil/nblcpi
 Presentation Format: calc
 Dataset Creation: Wed Aug 03 17:43:45 2011
 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	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													

