



Computer Processed
Interpretation

CompanyAMERICAN WARRIOR, INC.				Company AMERICAN WARRIOR, INC.			
Well REIN #5-23				Well REIN #5-23			
Field SCHABEN NORTHWEST				Field SCHABEN NORTHWEST			
County NESS				County NESS			
State KANSAS				State KANSAS			
Location: API # : 15-135-25872-00-00				Other Services			
530' FNL & 2300' FEL				DIL/CNL/CDL			
SEC 23 TWP 19S RGE 22W							
Permanent Datum		GROUND LEVEL		Elevation		2224	
Log Measured From		KELLY BUSHING		K.B.		2232	
Drilling Measured From		KELLY BUSHING		D.F.		N/A	
				G.L.		2224	
Date Recorded		6/24/2015					
Depth Logger		4368		Curve Definitions			
SW		Water Saturation					
SXO		Water Saturation In The Flushed Zone					
VCL		Volume Of Clay					
PHIE		Density - Neutron Crossplot Shale Corrected					
BWV		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		J. HENRICKSON					
Witnessed By		JASON ALM					
Analysis By		DALE LEGLEITER					

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

BAZINE KANSAS
4 SOUTH, 1 1/2 WEST, SOUTH INTO

Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

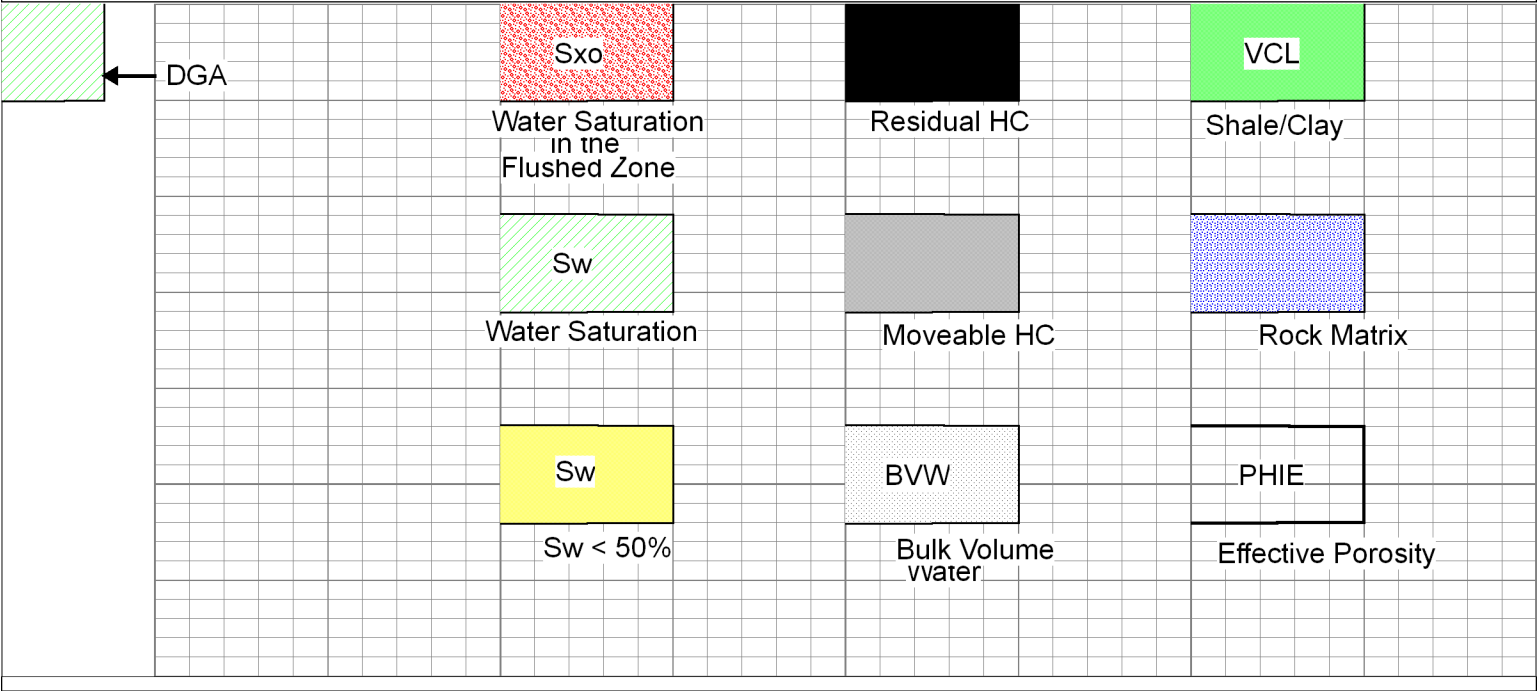
Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: JASON ALM
Secondary Witness:
Secondary Witness:
Secondary Witness:

Database File 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 amwar_rein #5-23\american_warrior_rein_5_23hd.db
Dataset Pathname cpi/awcpi
Presentation Format calc
Dataset Creation Wed Jun 24 13:58:46 2015
Charted by Depth in Feet scaled 1:240

DGA	0	Gamma Ray	150	1	SW	0	0.3	PHIE	0	0	VCL	1	
2.6	3.1	6	DCAL	16	30	PAYFLAG	0	0.3	BVW	0	1	PHIE	0
		-150	SPC (mV)	0	1	SXO	0	0.3	BVWSXO	0			

