



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY/NEUTRON LOG

Company		RITCHIE EXPLORATION, INC.	
Well		NV REAL ESTATE #1	
Field		WILDCAT	
County		PAWNEE	
State		KANSAS	
Company		RITCHIE EXPLORATION, INC.	
Well		NV REAL ESTATE #1	
Field		WILDCAT	
County		PAWNEE	
State		KANSAS	
Location:		API # : 15-145-21772-00-00	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 18 TWP 21S RGE 18W		Elevation	
1980' FNL & 630' FEL		K.B. 2091	
SE - NE		D.F. 2089	
DIL		G.L. 2082	
Date		7/9/14	
Run Number		ONE	
Depth Driller		4710	
Depth Logger		4713	
Bottom Logged Interval		4689	
Top Log Interval		2900	
Casing Driller		8 5/8" @ 1176	
Casing Logger			
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.4/54	
pH / Fluid Loss		8.5/11.2	
Source of Sample		FLOWLINE	
Rm @ Meas. Temp		.75 @ 97F	
Rmt @ Meas. Temp		.56 @ 97F	
Rmc @ Meas. Temp		.90 @ 97F	
Source of Rmt / Rmc		MEASUREMENT	
Rm @ BHT		.60 @ 122F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom			
Maximum Recorded Temperature		122F	
Equipment Number		4010	
Location		HAYS, KANSAS	
Recorded By		IAN MABB	
Witnessed By		MIKE ENGELBRECHT	

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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

THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
HWY 156 & 183 - NORTH 3 MILES TO RD. R - WEST 1 1/2 MILE - SOUTH INTO

Database File: 24647ddn.db
Dataset Pathname: pass3.1.3
Presentation Format: den_neu
Dataset Creation: Wed Jul 09 13:59:26 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

Charted by:		Depth in Feet scaled 1:2.10			
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu) -10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10		











