



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

**GAMMA RAY / NEUTRON / CCL**

File No.

API # 15-207-28,477

Company **Haas Petroleum, LLC**

Well **Arnold No. 11-HP**

Field **Winterscheid**

County **Woodson** State **Kansas**

Location		1650' FNL & 250' FEL E/2-NE-SE-NE	Other Services
			Perforate
Sec. 35	Twp. 23s	Rge. 14e	Elevation
Permanent Datum	GL	Elevation 1121'	K.B. 1128'
Log Measured From	GL		D.F. NA
Drilling Measured From	KB 7' from GL		G.L. 1121'

Date	09-12-2013
Run Number	One
Depth Driller	1725.0
Depth Logger	1680.8
Bottom Logged Interval	1679.8
Top Log Interval	200.0
Fluid Level	Full
Type Fluid	Water
Density / Viscosity	NA
Salinity - PPM Cl	NA
Max Recorded Temp	NA
Estimated Cement Top	0.0
Equipment No.	107
Location	Osawatomie
Recorded By	Steve Windisch
Witnessed By	Mark Haas

RUN No.	BORE-HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
One	12.25"	0.0	40.0	8.625"	22.0 #	0.0	40.0
Two	6.75"	40.0	1725.0	4.50"	10.5 #	0.0	1684.0

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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, 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

Drilling Contractor :  
 Skyy Drilling, LLC  
 Rig # 3

Database File: arnold11hp.db  
 Dataset Pathname: pass1  
 Presentation Format: gr-r-ccl  
 Dataset Creation: Thu Sep 12 11:53:43 2013 by Log SCH 111116  
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (cps)	150
150	Gamma Ray (cps)	300
-1	CCL	1
		10
	Neutron (cps)	210













