



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

**GAMMA RAY / NEUTRON / CCL**

File No.

Company Legend Oil & Gas, Ltd  
 Well Underwood "31" No. 1-14  
 Field McCune  
 County Crawford State Kansas

API # 15-037-22,287

Location 165' FSL & 495' FWL  
 SE-SW-SW-SW  
 Sec. 31 Twp. 30S Rge. 22E  
 Permanent Datum GL Elevation 870'  
 Log Measured From GL  
 Drilling Measured From GL  
 Other Services Perforate  
 Elevation K.B. NA  
 D.F. NA  
 G.L. 870'

Date	10-09-2014
Run Number	One
Depth Driller	321.0
Depth Logger	310.0
Bottom Logged Interval	309.0
Top Log Interval	20.0
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 Wlndisch
Witnessed By	Rick Coody

BORE-HOLE RECORD

NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
One	9.875"	0.0	22.4	7.00"	17.0#	0.0	22.4
Two	5.875"	22.4	321.0	2.875"	6.5#	0.0	310.0

CASING RECORD

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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 :  
 McPherson Drilling, LLC

Database File: underwood 31 1-14.db  
 Dataset Pathname: pass1  
 Presentation Format: gr-n-ccl  
 Dataset Creation: Thu Oct 09 12:57:42 2014 by Log SCH 111116  
 Charted by: Depth in Feet scaled 1:240

