



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

GAMMA RAY / NEUTRON / CCL

File No. Company A&L Energy Operations, LLC
 Well Thoren No. - 120
 Field Little Wakarusa
 County Douglas State Kansas

Location 1025' FNL & 1685' FEL
 SW-SE-NW-NE
 Other Services Perforate

Sec. 6 Permament Deam Log Measured From Drilling Measured From
 Typ 14s Rge 22a Elevation N/A
 GL GL GL
 Date 08-29-2013

Run Number One
 Depth Difer 742.0
 Depth Logger 722.9
 Bottom Logged Interval 721.9
 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. Location 107 Osawatomie
 Recorded By Steve Wandisch
 Witnessed By Jerid Hoelm

BORE-HOLE RECORD				CASING RECORD			
RUN	BIT	FROM	TO	SIZE	WGT.	FROM	TO
One	9.875"	0.0	43.0	7.00"	17.0 #	0.0	43.0
Two	6.125"	43.0	742.0	2.875"	6.5 #	0.0	732.35

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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 :
 McGown Drilling, Inc
 Rig - 2

Database File: thoren120.db
 Dataset Pathname: pass1
 Presentation Format: gr-n-ccl
 Dataset Creation: Sat Jun 29 10:28:04 2013 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240

