



**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. - 122**

Field **Little Wakarusa**

County **Douglas** State **Kansas**

Location **365' FNL & 1695' FEL**

**SW-NE-NW-NE**

Other Services  
Perforate

Sec. 6 Permament Datum Typ 14s Rge 22e Elevation  
Log Measured From GL GL K.B. NA  
Drilling Measured From GL GL D.F. NA  
G.L. NA

Date 09-15-2013

Run Number One

Depth Drier 742.0

Depth Logger 726.8

Bottom Logged Interval 725.8

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 No.	BIT FROM	TO	SIZE	WGT.	FROM	TO	
One	9.875"	40.0	7.00"	17.0 #	0.0	40.0	
Two	6.125"	742.0	2.875"	6.5 #	0.0	731.6	

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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

The well had a bent joint of pipe could not get va 2" perf gun to go down.  
 Shot a 1 9/16" perf gun.

Database File: thoren122.db  
 Dataset Pathname: pass1  
 Presentation Format: gr-n-ccl  
 Dataset Creation: Thu Aug 15 15:52:42 2013 by Log SCH 111116  
 Charted by: Depth in Feet scaled 1:240

