



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

**GAMMA RAY / NEUTRON / CCL**

File No. Company Petroleum Technologies, Inc.  
 Well Sawyer No. - 19  
 Field Longanecker Southeast  
 County Johnson State Kansas

Location 1540' FSL & 3300' FEL  
 S/2-S/2-NE-SW

Sec. 29 Type 148 Rge. 22e  
 Permanent Datum GL Elevation NA  
 Log Measured From GL  
 Drilling Measured From GL

Date 07-23-2014  
 Run Number One  
 Depth Driller 913.0  
 Depth Logger 894.8  
 Bottom Logged Interval 883.8  
 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 Wandsch  
 Witnessed By Jerold Helein

BOREHOLE RECORD				CASING RECORD			
RUN	BIT	FROM	TO	SIZE	WGT.	FROM	TO
One	9.875"	0.0	22.4	7.00"	17.0#	0.0	22.4
Two	5.625"	22.4	913.0	2.875"	6.5#	0.0	893.0

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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 :  
 Evans Energy & Development, Inc.

Database File: sawyer 19.db  
 Dataset Pathname: pass1  
 Presentation Format: gr-n-ccl  
 Dataset Creation: Wed Jul 23 10:49:35 2014 by Log SCH 111116  
 Charted by: Depth in Feet scaled 1:240

