



**MIDWEST SURVEYS**  
LOGGING - PERFORATING - CONSULTING SERVICES  
P.O. Box 66, Osawatomie, KS 66064  
913 / 355 - 2128

**GAMMA RAY / NEUTRON / CCL**

File No.

Company **Birk Petroleum**  
Well **Thomsen No.-9**  
Field **Crandall North**  
County **Coffey** State **Kansas**

Location **2145' FSL & 165' FEL**  
**SE-NE-NESE**

Sec. **36** Twp. **22s** Rge. **15e**  
Permanent Datum **GL** Elevation **1037'**  
Log Measured From **GL** D.F. **NA**  
Drilling Measured From **GL** G.L. **1037'**

Date **08-26-2014**

Run Number **One**

Depth Driller **1168.0**

Depth Logger **1152.5**

Bottom Logged Interval **1151.5**

Top Log Interval **20.0**

Fluid Level **Full**

Type Fluid **Water**

Density / Viscosity **NA**

Salinity / PPMA CI **NA**

Max Recorded Temp **NA**

Estimated Cement Top **0.0**

Equipment No. **1122**

Location **Oswatimie**

Recorded By **Gary Winkless**

Witnessed By **Brian Birk**

Run No. **BORE-HOLE RECORD**

BIT **FROM**

TO **SIZE**

WGT. **FROM**

TO **40.0**

One **9.875"** **0.0** **7.00"** **0.0**

Two **6.25"** **4.00** **1168.0** **2.875"** **6.5 #** **0.0** **1156.0**

**Comments**

Drilling Contractor :  
Woco Drilling, LLC.

Database File: thomsen9.db  
Dataset Pathname: pass1  
Presentation Format: gr-n-ccl  
Dataset Creation: Tue Aug 26 13:49:04 2014 by Log SCH 111116  
Charted by: Depth in Feet scaled 1:240

