



**MIDWEST SURVEYS**  
 LOGGING - PERFORATING - CONSULTING SERVICES  
 P.O. Box 88, Osawatomie, KS 66064  
 913.755.2128

**GAMMA RAY / NEUTRON / CCL**

File No.

Company Legends Oil & Gas, Ltd  
 Well Patrick Collins No. - 16

Field Humboldt - Chanute  
 County Woodson State Kansas

Location  
 1485' FSL & 1155' FEL  
 SW-SW-NE-SE

Sec. 17 Typ. 25s Rge. 17e  
 Permanent Datum GL Elevation 1011'  
 Log Measured From GL  
 Drilling Measured From GL

Date 06-25-2014  
 Run Number One  
 Depth Logger 902.0  
 Bottom Logged Interval 877.3  
 Top Log Interval 20.0  
 Fluid Level Full

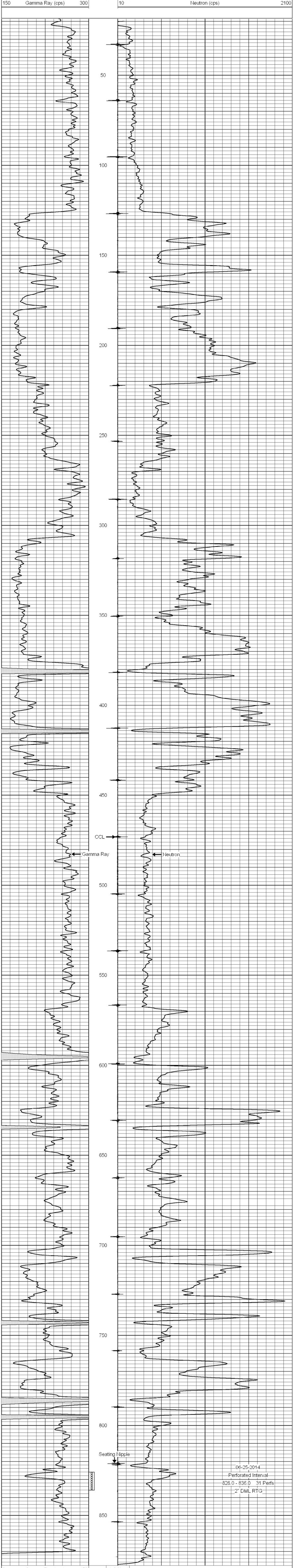
Type Fluid Water  
 Density / Viscosity NA  
 Salinity - PPM Cl NA  
 Max. Recorded Temp NA  
 Estimated Cement Top 0.0  
 Equipment No. Location 107 Osawatomie  
 Recorded By Steve Winkler

Revised By Marshall Diamond-Galbraith

BORE-HOLE RECORD  
 R/OIN No. BIT FROM TO SIZE WGT. FROM TO  
 One 11.00" 0.0 7.00" 17.0# 0.0 2.10  
 Two 5.575" 2.10 9.12.0 2.875" 6.5# 0.0 883.0

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 : Owens Petroleum Services											

Database File: pat collins16.db  
 Dataset Pathname: pass1  
 Presentation Format: gr-n-ccl  
 Dataset Creation: Wed Jun 25 09:37:42 2014 by Log SCH 111116  
 Charted by: Depth in Feet scaled 1:240



0	Gamma Ray (cps)	150
150	Gamma Ray (cps)	300

-1	CCL	1
10	Neutron (cps)	2100