



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.- 91**

Field **Little Wakarusa**
County **Douglas** State **Kansas**

Location **860' FNL & 1850' FEL**
NW-SE-NW-NE

Other Services
Perforate

Sec. **6** Twp. **14S** Rge. **21E**
Permanent Datum **GL** Elevation **NA**
Log Measured From **GL**
Drilling Measured From **GL**

Elevation
K.B. NA
D.F. NA
G.L. NA

Date

07-12-2012

Run Number

One

Depth Driller

759.0

Depth Logger

745.0

Bottom Logged Interval

744.0

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.

107

Recorded By

Steve Windisch

Witnessed By

Jerald Heelm

RUN

BORE-HOLE RECORD

No.

BIT

FROM

TO

SIZE

WGT.

FROM

TO

One

9.875"

0.0

44.5

7.00"

0.0

44.5

748.7

Two

5.625"

44.5

759.0

2.875"

0.0

748.7

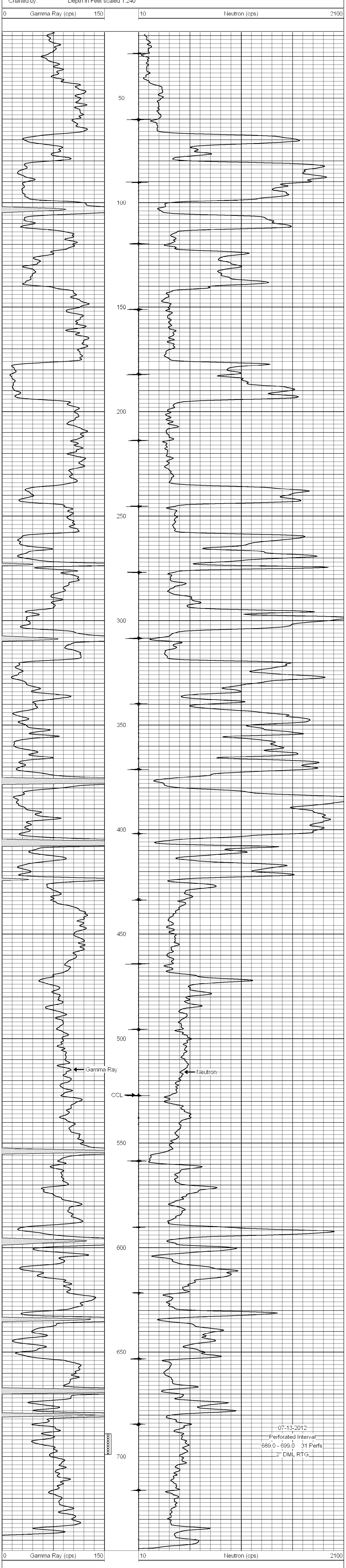
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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: thoren91.db
Dataset Pathname: pass1
Presentation Format: gr-n-ccl
Dataset Creation: Thu Jul 12 14:07:19 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240



07-13-2012
Perforated Interval
689.0 - 699.0 31 Perfs
2" DML RTG