



MIDWEST SURVEYS
 LOGGING - PERFORATING - CONSULTING SERVICES
 P.O. Box 66, Osawatomie, KS 66064
 913 735 - 2128

GAMMA RAY / NEUTRON / CCL

File No.

Company **Birk Petroleum**
 Well **Sutherland No.-19**
 Field **Crandall North**
 County **Coffey** State **Kansas**

Location
 495' FSL & 5115' FEL
 NW-SW-SW-SW

Sec. 31
 Permian Daum
 Log Measured from
 Drilling Measured from

Twp. 22s Rge. 16e
 Elevation 1008'
 K.B. NA
 D.F. NA
 G.L. 1008'

Date
 Run Number
 Depth Driller
 Bottom Logged Interval
 Top Log Interval
 Fluid Level

09-04-2014
 One
 1166.0
 1153.5
 1152.5
 20.0
 Fall

Type Fluid
 Density / Viscosity
 Salinity - PPM Cl
 Max Recorded Temp
 Estimated Cement Top
 Equipment No.
 Location

Water
 NA
 NA
 0.0
 102
 Osawatomie

Recorded By
 Witnessed By
 RUN No.
 BIT
 One
 9.875"
 6.25"

BORE-HOLE RECORD
 TO
 FROM
 40.0
 1166.0

CASINGS RECORD
 SIZE
 WT.
 FROM
 TO
 7.00"
 17.0 #
 0.0
 1166.0
 2.875"
 6.5 #
 0.0
 1159.0

Other Services
 Perforate

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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 :
 Woco Drilling, LLC.

Database File: sutherland19.db
 Dataset Pathname: pass1
 Presentation Format: gr-n-ccl
 Dataset Creation: Thu Sep 04 13:30:13 2014 by Log SCH 111116
 Charted by: Depth in Feet scaled 1:240

