ORNISH WELLINE SERVICES, INC. CHANUTE, KANSAS

GAMMA RAY NEUTRON COMPLETION LOG

Company SOUTHWINDS ENERGY, LLC
Well BUTCHER #4
Field PERU-SEDAN
County CHAUTAUQUA
State KANSAS

Date 11-30-12
Time Logged 09:26:59
Max Recorded Temp. 75 °F
Bottom Log Interval 1,540
Top Log Interval 0
Casing Type 5.5" 15.5#
Casing Depth 1,540
Drill Fluid Type Water
Drill Fluid Level Full
Drill Fluid Weight 8.4
Drill Fluid Viscosity 28
Drill Fluid Resistivity 0.2
Source Type Gamma Ray
Source Strength 10 mR/hr
Source Distance 1 ft
Detector Type Scintillation
Detector Length 1 ft
Detector Diameter 1.5 in
Logging Speed 30 ft/min
Time Constant 1 sec
Tool Type Gamma Ray Neutron
Tool Serial Number 1001
Tool Length 7.5 ft
Tool Diameter 1.69 in
Tool Weight 25 lb
Tool Position Eccentered
Tool Orientation Vertical
Logging Unit Number 1
Logging Unit Location Chanute, Ks
Recorded By D. Hoffman
Witnessed By Mr. Bill Rose

Logging Date 11-30-12
Run Number 1
Depth Driller 1,540
Depth Logged 1,540
Top Log Interval 0
Bottom Log Interval 1,540
Open Hole Size 5.5"
Type Fluid in Hole Water
Density / Viscosity 8.4 / 28
PH / Fluid Loss 7 / N/A
Source / Rmf / Rmc N/A / N/A
Rm @ Measured Temp. N/A @ 75 °F
Rmf @ Measured Temp. N/A @ 75 °F
Rmc @ Measured Temp. N/A @ 75 °F
Source Rmf / Rmc N/A / N/A
Rm @ BHT N/A @ 75 °F
Time Since Circulation 12 hrs
Time Since Logged 12 hrs
Max Recorded Temp. 75 °F
Equipment / Location 1001 / Chanute, Ks
Recorded By D. Hoffman
Witnessed By Mr. Bill Rose

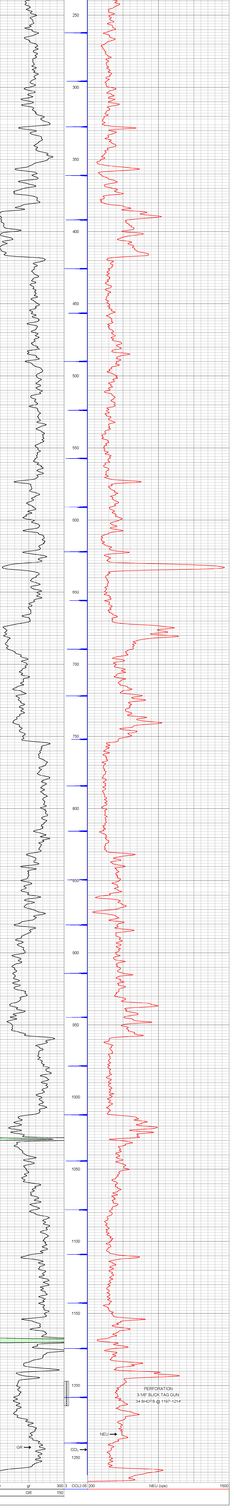
Comments

THANK YOU

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	7.59		GR-TITAN, 149 (TIT149_001) Titan 1-1/16" Gamma Ray	4.75	1.69	20.00
CCL	5.05		CCL-TITAN, 149 (TIT149) Titan 1-1/16" Gamma CCL	1.83	1.69	7.50
NEU	0.83		NEU-TITAN (TIT8ET) TITAN 1-1/16" Neutron	4.33	1.69	25.00

Dataset: butcher#4.db: fastpwdwnurl-1pass1
Total Length: 10.83 ft
Total Weight: 52.50 lb
O.D.: 1.69 in

butcher#4.db: fastpwdwnurl-1pass1
Dataset Filename: pass1
Presentation Format: gr-ccl
Dataset Created: Fri Jul 19 09:28:59 2013 by Log Std Cases\hole 00001
Charted by: Depth in Feet scaled 1:240



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Company SOUTHWINDS ENERGY, LLC
Well BUTCHER #4
Field PERU-SEDAN
County CHAUTAUQUA SEC. 26 TWP. 35S RGE. 10E
State KANSAS Date 11-30-12