Petrophysical Analysis Log

Petrophysical Study

200C072A093B049

Nechako Basin, B.C.

WELL: 200C072A093B049 COUNTRY: CANADA

Elev: K.B. 756.27 m Base Ref.: K.B. Scale 1:500

PROVINCE: BRITISH COLUMBIA

FIELD: WILDCAT

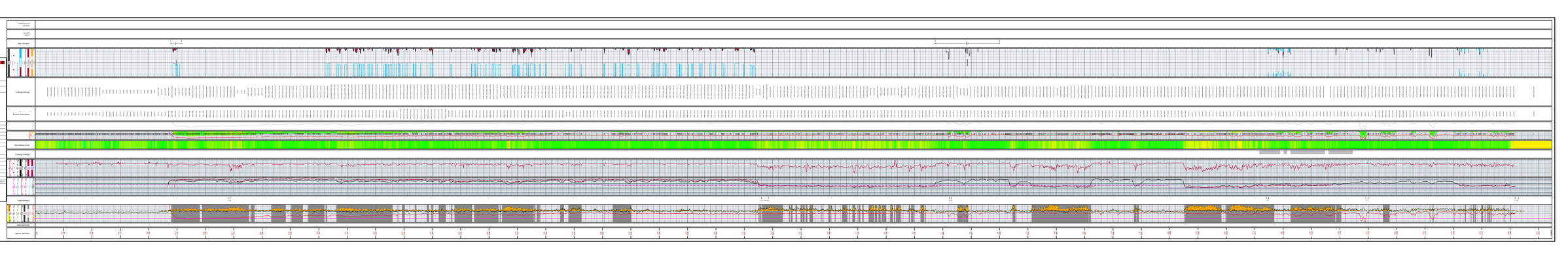
COMPANY: HUDSON'S BAY OIL AND GAS CO.

Log Header Data

Date	1-Jul-2015	Run No.	One
Depth Driller (m)	1500	Depth Logger (m)	1500.2
Bottom Log Interval (m)	1500	Top Log Interval (m)	200
Casing Driller Size (mm)	244.5	Casing Logger Size (mm)	244.5
Bit Size (mm)	311.1	Type Fluid in Hole	Water Based Mud
Density / Viscosity (kg/m3)	1100 / 60	pH / Fluid Loss (ml)	9.5 / 4.0
Source of Sample	Circulation	Rm @ Measured Temp (ohmm)	0.15 @ 20 °C
Rmf @ Measured Temp (ohmm)	0.12 @ 20 °C	Rmc @ Measured Temp (ohmm)	0.18 @ 20 °C
Source of Rmf / Rmc	Measured	Rm @ BHT (ohmm)	0.08 @ 60 °C
Time Since Circulation (hrs)	12	Max Recorded BHT (°C)	60
Equipment Number	Logger 1	Location	Fort St. John
Recorded By	Schlumberger	Witnessed By	Company Rep

Petrophysical Parameters/Equations

Mud Resistivity	Rm = 0.15 ohmm @ 20 °C		
Rmf Resistivity	Rmf = 0.12 ohmm @ 20 °C	Rmf/Rmc Ratio	Measured Rmf and Rmc
Rmc Resistivity	Rmc = 0.18 ohmm @ 20 °C	Rm @ Bottom Hole	Rm = 0.08 ohmm @ 60 °C (Measured)
Formula Water Salinity	0 ppm	Rw Equation Used	Schlumberger Chart Gen-9
Archie a	a = 1.0	Archie Rw	Rw = 0.05 ohmm
Archie m	m = 2.0	Archie n	n = 2.0
Archie Equation	Sw = (a * Rw / Rt)^(1/n)	Shale Equation	Clavier et al. (1977)
Porosity Equation	PHIE = (PHIT - (Vsh * PHIsh))	Gas Equation	Archie Sgr = 0.0

Comments

Tie Ins from Gamma Ray Measurements		Tie Ins from Density Porosity	
Top Tie In	0 m	Top Tie In	0 m
Bottom Tie In	1500 m	Bottom Tie In	1500 m
Shift Top	0 m	Shift Top	0 m
Shift Bottom	0 m	Shift Bottom	0 m
Total Shift	0 m	Total Shift	0 m