



Microresistivity Log

Pioneer Energy Services

API No.

15-141-20,459-00-00

Company **Bruce Oil Company, LLC**

Well **Bowen "B" No. 1**

Field

County **Osborne** State **Kansas**

Location **1,600' FSL & 500' FEL**

Sec: **16** Twp: **8S** Rge: **14W**

Other Services
CNL/CDL
DIL

Elevation

K.B. 1756
D.F. 1751
G.L. 1751

Elevation 1751
5 Ft. Above Perm. Datum

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Date **6/25/2013**

Run Number **Two**

Depth Driller **2830**

Depth Logger **2810**

Bottom Logged Interval **2809**

Top Log Interval **2400**

Casing Driller **8.625 @ 710**

Casing Logger **707**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **1100**

Density / Viscosity **8.9 44**

pH / Fluid Loss **10.5 8.0**

Source of Sample **Flowline**

Rm @ Meas. Temp **1.0 @ 78**

Rmf @ Meas. Temp **.75 @ 78**

Rmc @ Meas. Temp **1.35 @ 78**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.75 @ 104**

Operating Rig Time **3 1/2 Hours**

Max Rec. Temp. F **104**

Equipment Number **108**

Location **Hays**

Recorded By **J. Long**

Witnessed By **Bob Peterson**

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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.

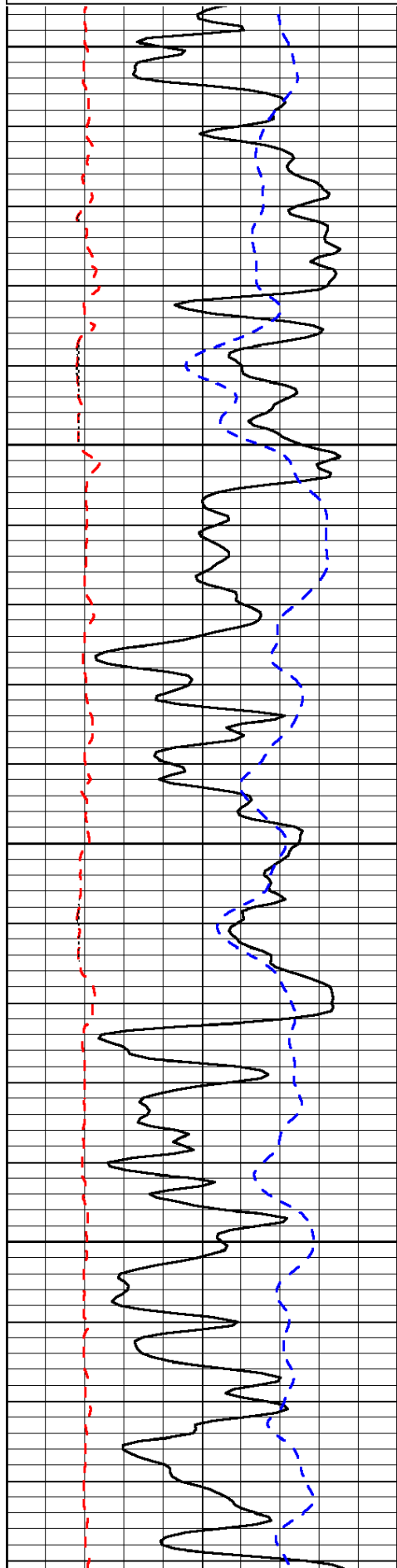
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Natoma, 11 North on 280th Road (657 Road), 1 East, 1 North, 6 East, South Into

Database File: c:\warrior\data\bruce oil_bowen b # 1\bruceoil_bowen_b_1hd.db
Dataset Pathname: dil/brucestck
Presentation Format: micro
Dataset Creation: Tue Jun 25 07:09:43 2013
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0



0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

