The Perforators LLC

DUAL INDUCTION LOG

Company Meridian Energy Inc.
Well Hamel 1-A
Field Lynd
County Rooks
State Kansas

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Well Hamel 1-A
Field Lynd
County Rooks State Kansas

Location: API # : 15 163 24029

330' FSL & 405' FWL

SEC 33 TWP 9S RGE 19W

Other Services
DIL
ML

Permanent Datum Ground Level Elevation 2211'
Log Measured From KB 7' AGL
Drilling Measured From KB

Elevation
K.B. 2218'
D.F. 2217'
G.L. 2211'

Date	9-18-12		
Run Number	One		
Depth Driller	3800'		
Depth Logger	3802'		
Bottom Logged Interval	3800'		
Top Log Interval	200'		
Casing Driller	8 5/8"@216'		
Casing Logger	216'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical Mud		
Density / Viscosity	9.1/71		
pH / Fluid Loss	10.5/8.0		
Source of Sample	Pit		
Rm @ Meas. Temp	.9@76degf		
Rmf @ Meas. Temp	.68@76degf		
Rmc @ Meas. Temp	1.1@76degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.65@105degf		
Time Circulation Stopped	12:00 a.m.		
Time Logger on Bottom	2:15 a.m.		
Maximum Recorded Temperature	105degf.		
Equipment Number	T045		
Location	Hays, KS.		
Recorded By	L. Smith		
Witnessed By	Mr. Neal Lafon		

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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

Thanks for using The Perforators LLC Hays, KS. (785-621-4604)

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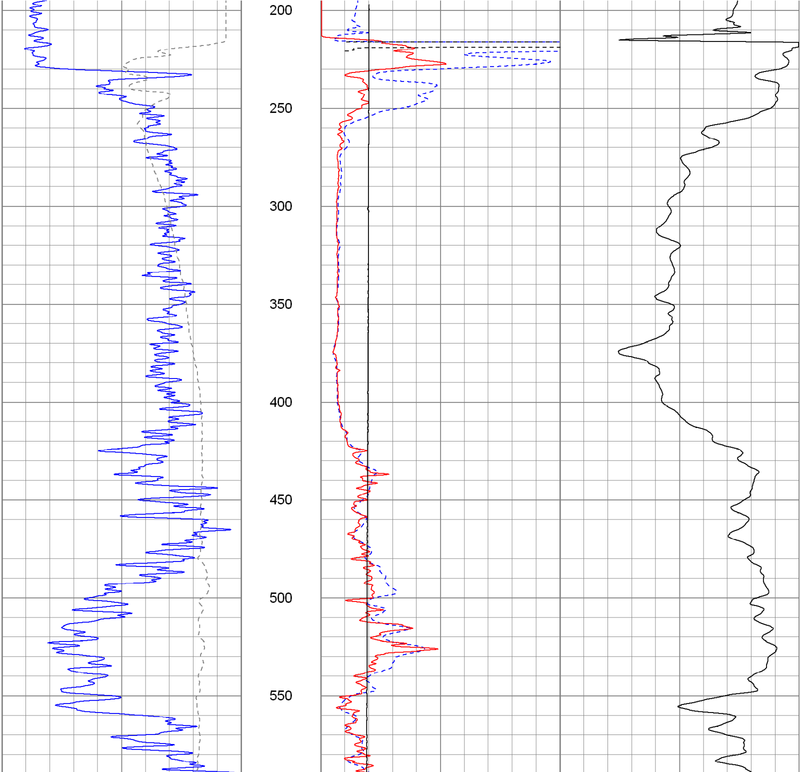
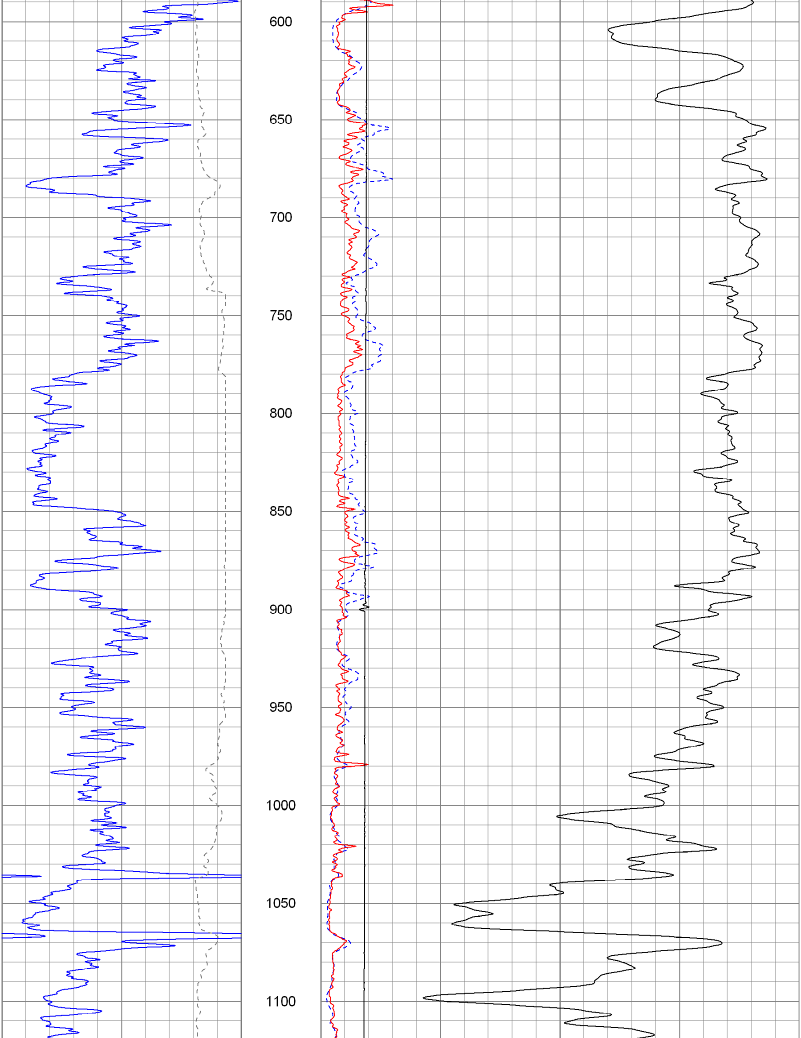
Main Pass

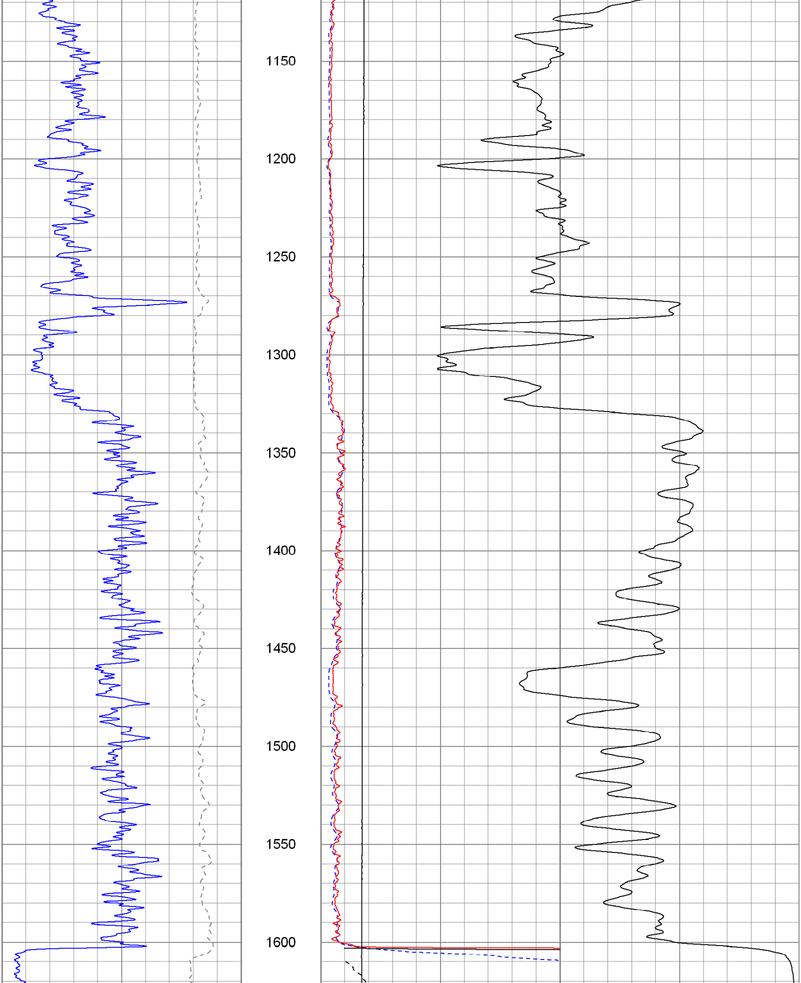
Database File: mehamel1aoh.db
Dataset Pathname: pass2
Presentation Format: kdillin2
Dataset Creation: Tue Sep 18 02:25:52 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:600

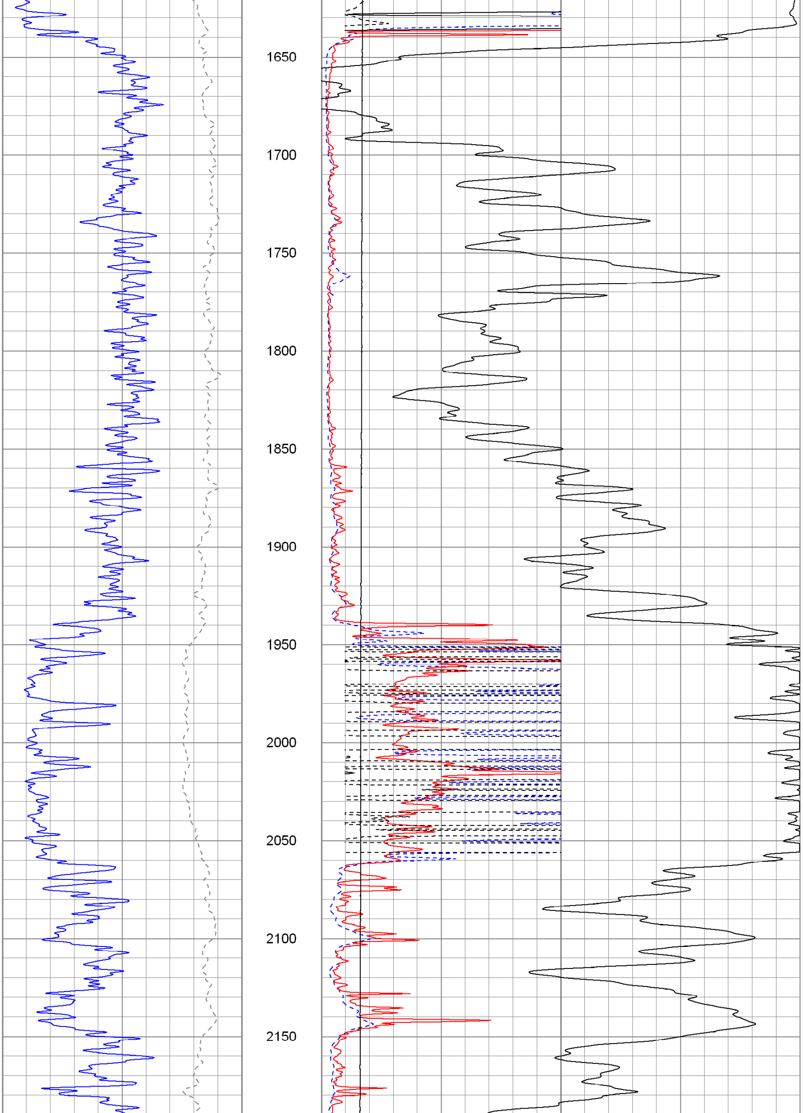
0 GR (GAPI) 150
-200 SP (mV) 0

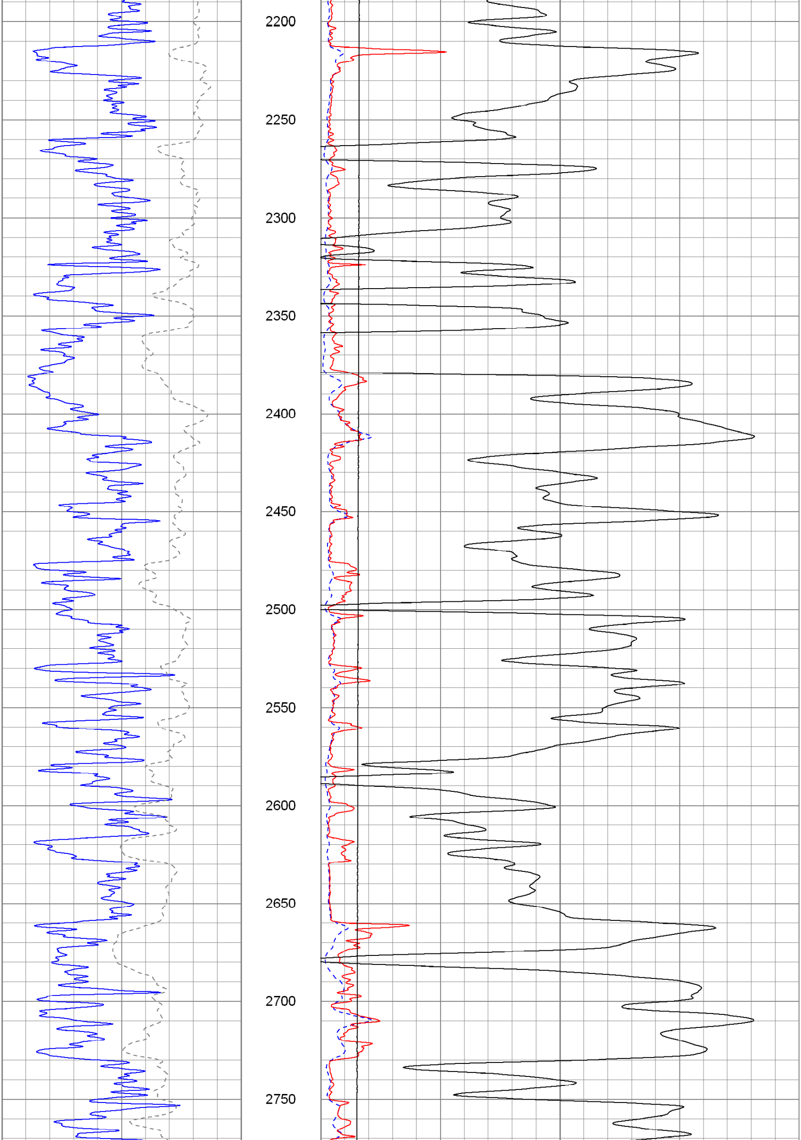
0 RILD (Ohm-m) 50
0 RLL3 (Ohm-m) 50
1000 CILD (mmho/m) 0
10000 LTEN (lb) 0
50 RILD x 10 (Ohm-m) 500
50 RLL3 x 10 (Ohm-m) 500

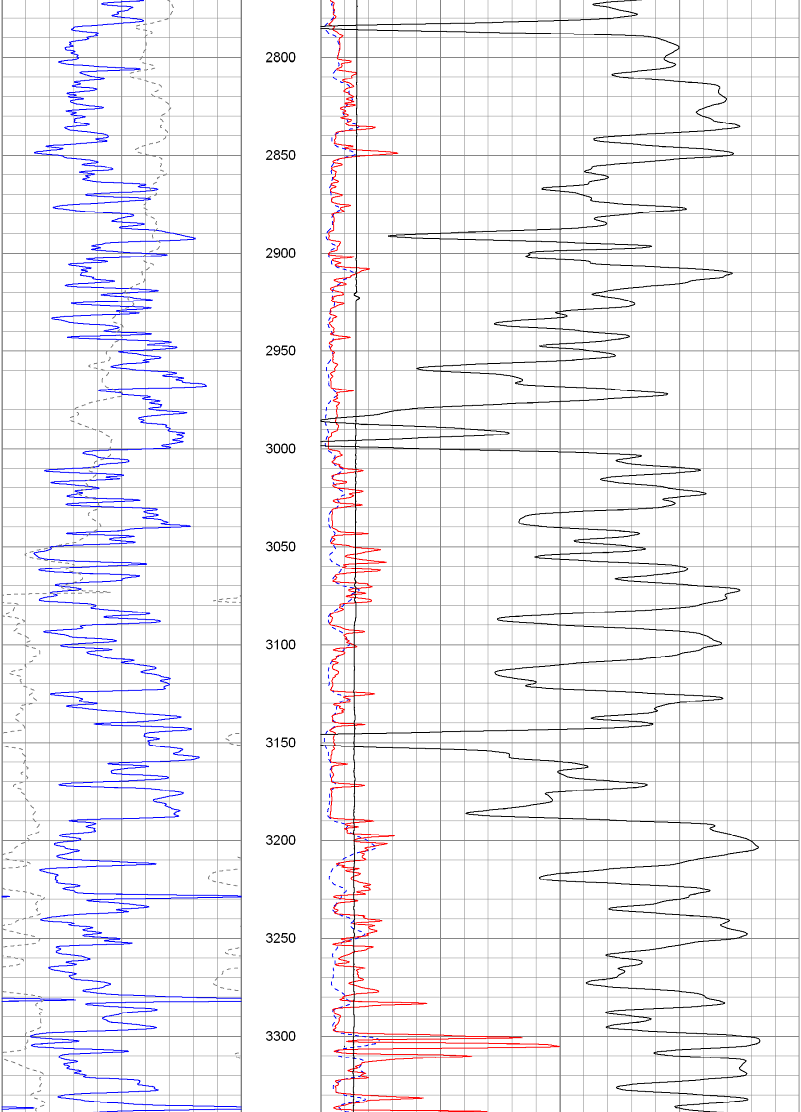


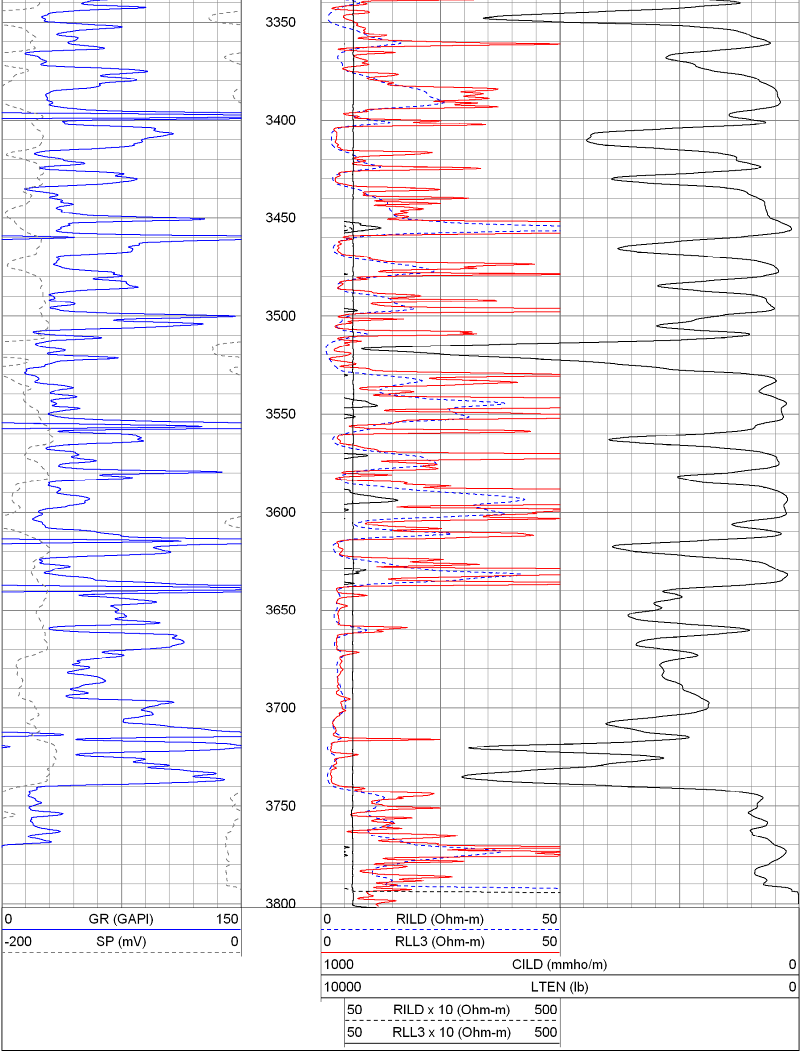












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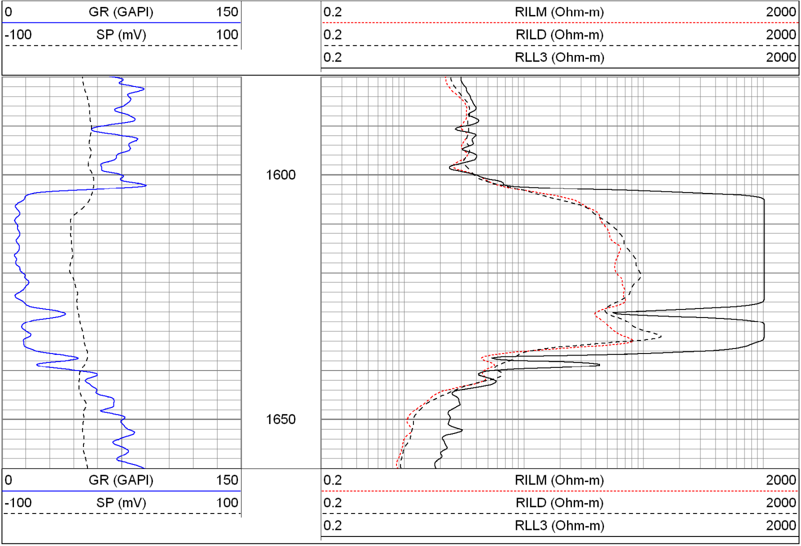
Main Pass

Database File:	mehamel1aoh.db
Dataset Pathname:	pass2
Presentation Format:	kdil
Dataset Creation:	Tue Sep 18 02:25:52 2012 by Log Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240



The Perforators LLC

Main Pass

Database File:	mehamel1aoh.db
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Dataset Creation:	Tue Sep 18 02:25:52 2012 by Log Open-Cased 100827
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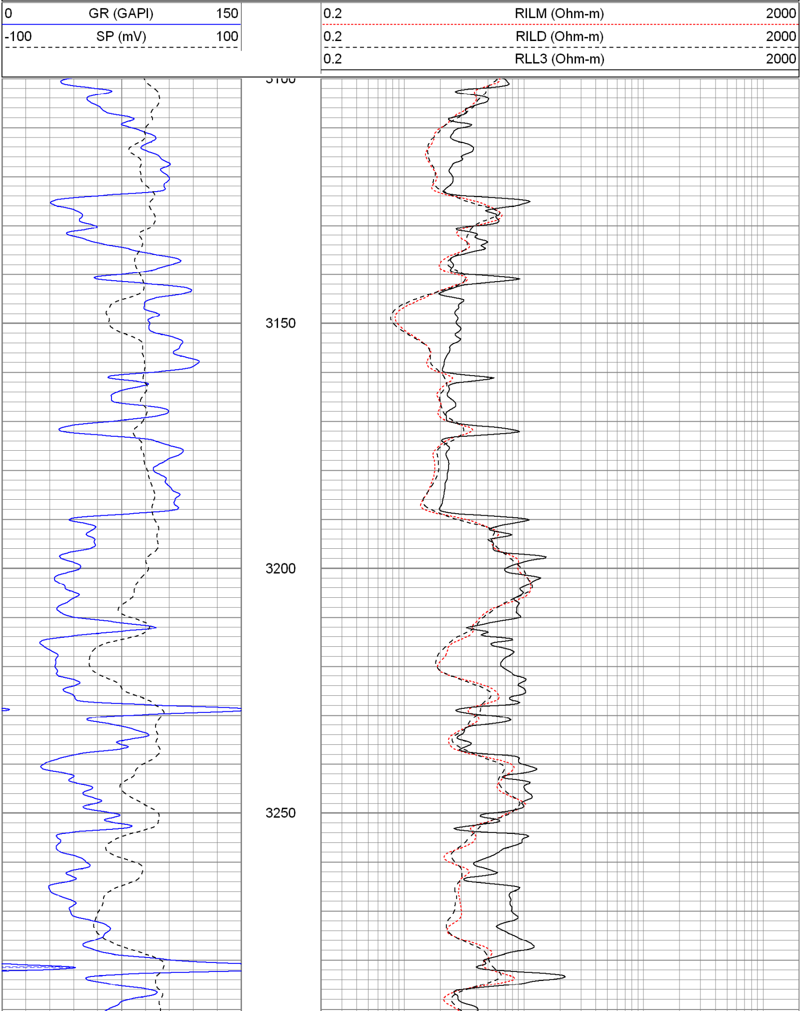

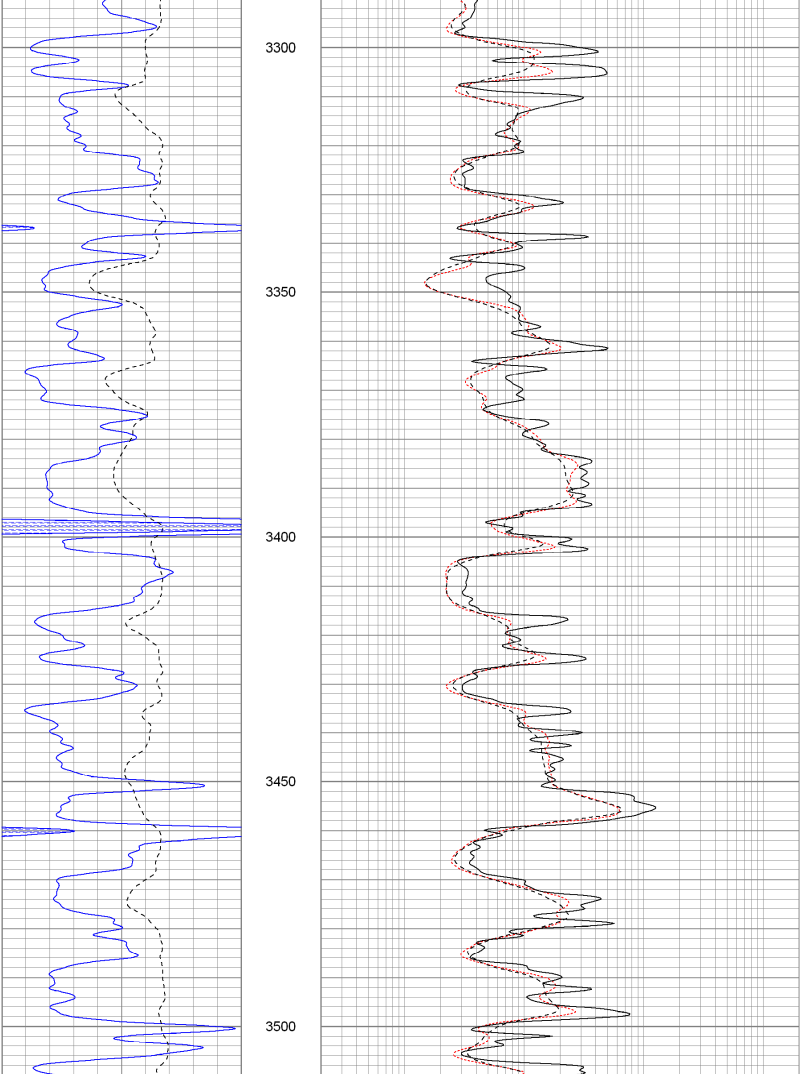

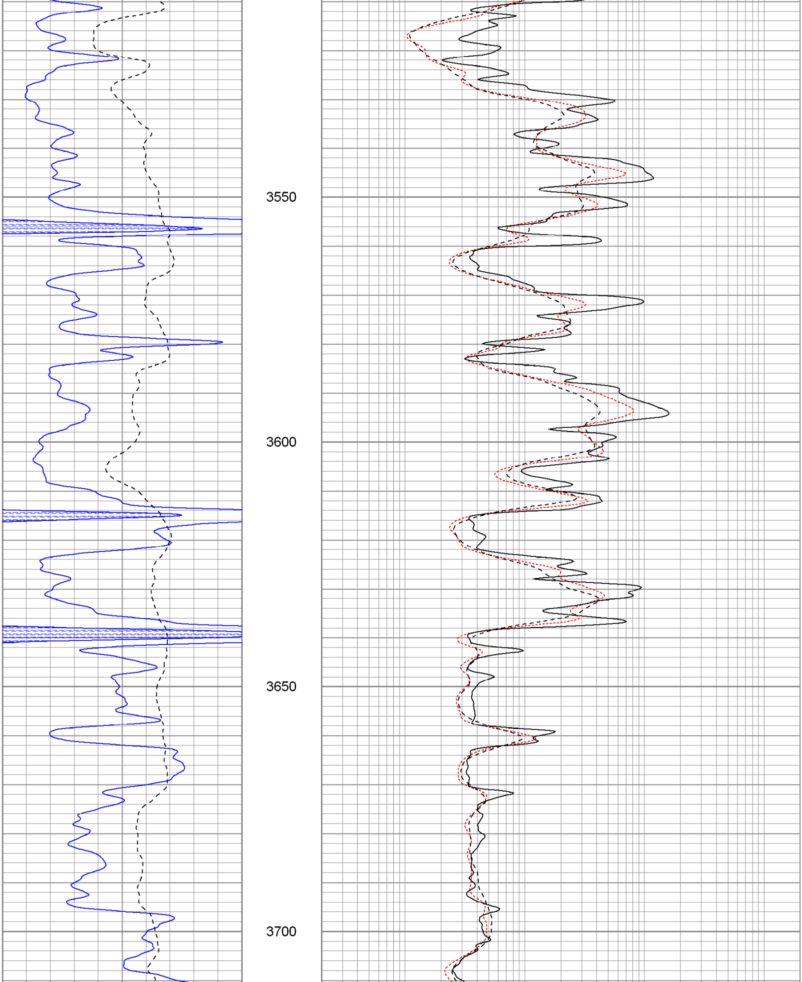

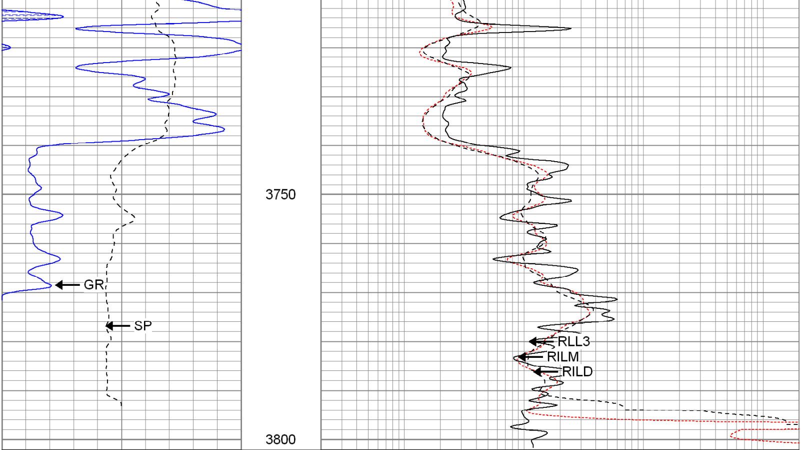

0	GR (GAPI)	150	0.2	RILM (Ohm-m)	2000
-100	SP (mV)	100	0.2	RILD (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

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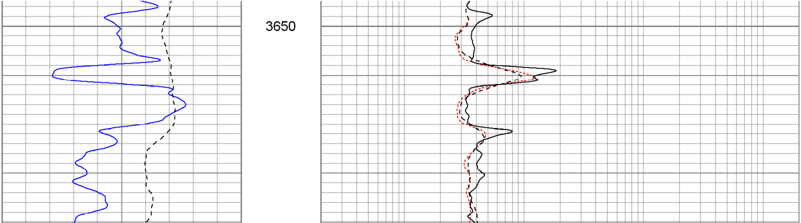
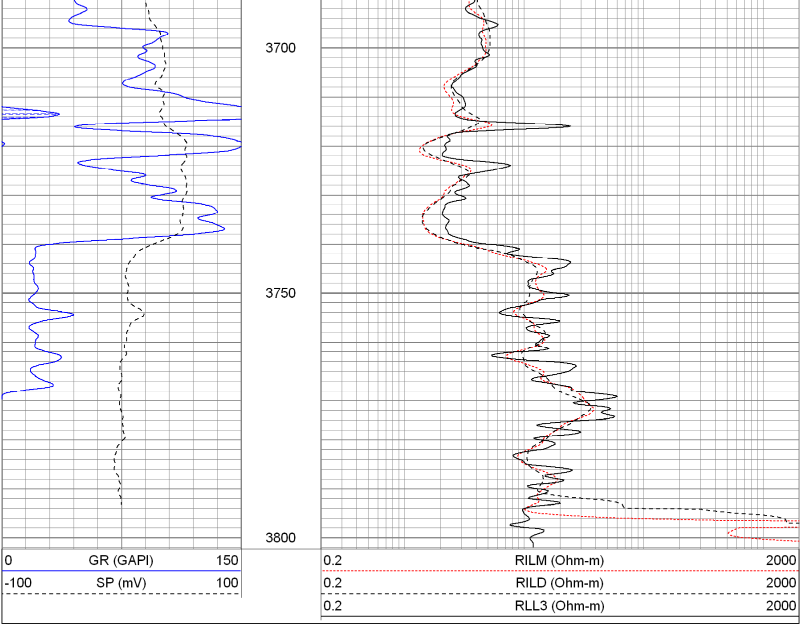
Repeat Pass

Database File:	mehamel1aoh.db
Dataset Pathname:	pass1
Presentation Format:	kdil
Dataset Creation:	Tue Sep 18 02:16:56 2012 by Log Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	150	0.2	RILM (Ohm-m)	2000
-100	SP (mV)	100	0.2	RILD (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000





Calibration Report

Database File:	mehamel1aoh.db
Dataset Pathname:	pass1
Dataset Creation:	Tue Sep 18 02:16:56 2012 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model:	080522-Probe
Surface Cal Performed:	Tue Aug 28 14:15:03 2012
Downhole Cal Performed:	Tue Aug 28 14:15:06 2012
After Survey Verification Performed:	Tue Aug 28 14:15:08 2012

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.000	0.639	V	0.000	400.000	mmho/m	626.539	-0.207
Medium	0.001	0.736	V	0.000	464.000	mmho/m	631.594	-0.848
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.639	V	0.000	400.000	mmho/m	626.575	-0.168
Medium	0.001	0.736	V	0.000	464.000	mmho/m	631.625	-0.945

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.306	400.046	mmho/m	-0.038	399.939	mmho/m	1.001	-0.344
Medium	0.355	464.559	mmho/m	0.096	464.073	mmho/m	1.000	-0.258
LL3		7.250	V		750.000	Ohm-m		
		-0.000	V		12.000	Ohm-m		
		-7.360	V		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: 2388DHT-DHT
Source / Verifier: /
Master Calibration Performed: Thu Sep 13 16:04:57 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	717.11	305.57	cps
Aluminum	2.620	g/cc	140.63	205.93	cps

Spine Angle = 76.38

Density/Spine Ratio = 0.519

	Size		Reading
Small Ring	8.25	in	5771.32
Large Ring	14.00	in	10165.20

Gamma Ray Calibration Report

Serial Number: 2001
Tool Model: OH
Performed: Wed Aug 29 08:26:23 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2300 GAPI/cps

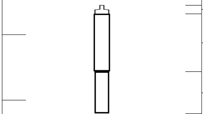
Neutron Calibration Report

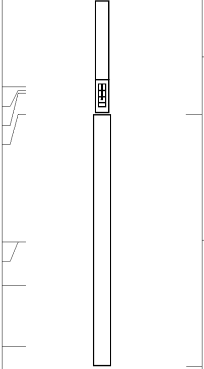
Serial Number: 5108
Tool Model: PROBE
Performed: Mon Sep 03 08:08:04 2012

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			None	0.75	1.50	5.00
NEU	37.85		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.32		GR-OH (2001) 2001	3.56	3.25	40.00



		CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	23.78				
DCAL	23.49				
SSD	23.24				
HEADVOLT	21.47				
CILD	10.60	DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
SP	10.60				
CILM	6.89				
RLL3	1.70				

Dataset: mehamel1aoh.db: field/well/run1/pass1
Total Length: 40.39 ft
Total Weight: 676.00 lb
O.D. 4.00 in