The Perforators LLC

DUAL INDUCTION LOG

Company	John O Farmer Inc.
Well	States A #2
Field	Hansen West
County	Phillips
State	Kansas

Company John O Farmer Inc.
Well States A #2
Field Hansen West
County Phillips State Kansas

Location: API # : 15 147 20692
110' FNL & 1170' FEL
SEC 15 TWP 5S RGE 20W

Permanent Datum Ground Level Elevation 2099'
Log Measured From KB 5' AGL
Drilling Measured From KB

Other Services
ML
CDNL

Elevation
K.B. 2104'
D.F. 2103'
G.L. 2099'

Date	9-24-12
Run Number	One
Depth Driller	3600'
Depth Logger	3595'
Bottom Logged Interval	3594'
Top Log Interval	200'
Casing Driller	220'
Casing Logger	232'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical Mud
Density / Viscosity	9/53
pH / Fluid Loss	10.5/8.0
Source of Sample	Pit
Rm @ Meas. Temp	1.92@79degf
Rmf @ Meas. Temp	1.44@79degf
Rmc @ Meas. Temp	2.3@79degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	1.43@106degf
Time Circulation Stopped	12:30 a.m.
Time Logger on Bottom	2:15 a.m.
Maximum Recorded Temperature	106 degf
Equipment Number	T045
Location	Hays, KS.
Recorded By	Gus Pfanenstiel
Witnessed By	Mr. Austin Klaus

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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.

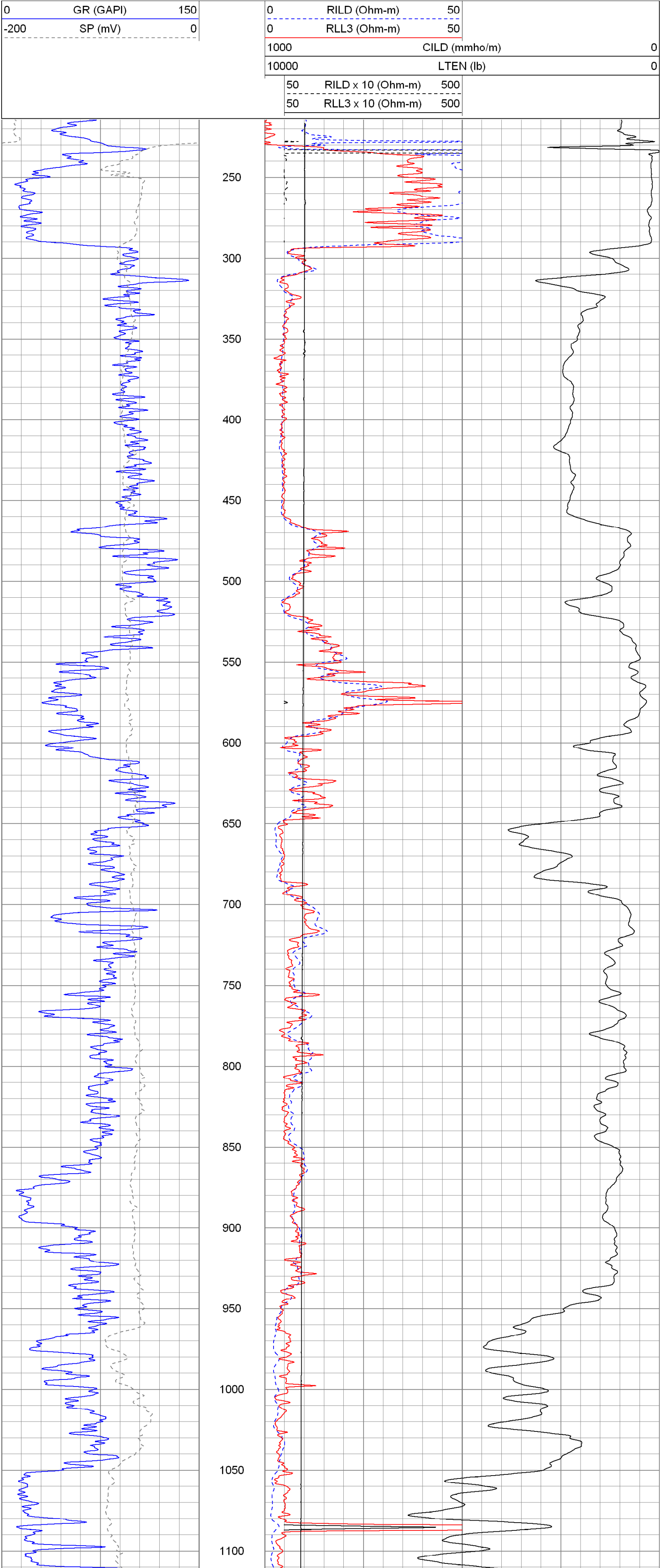
Comments

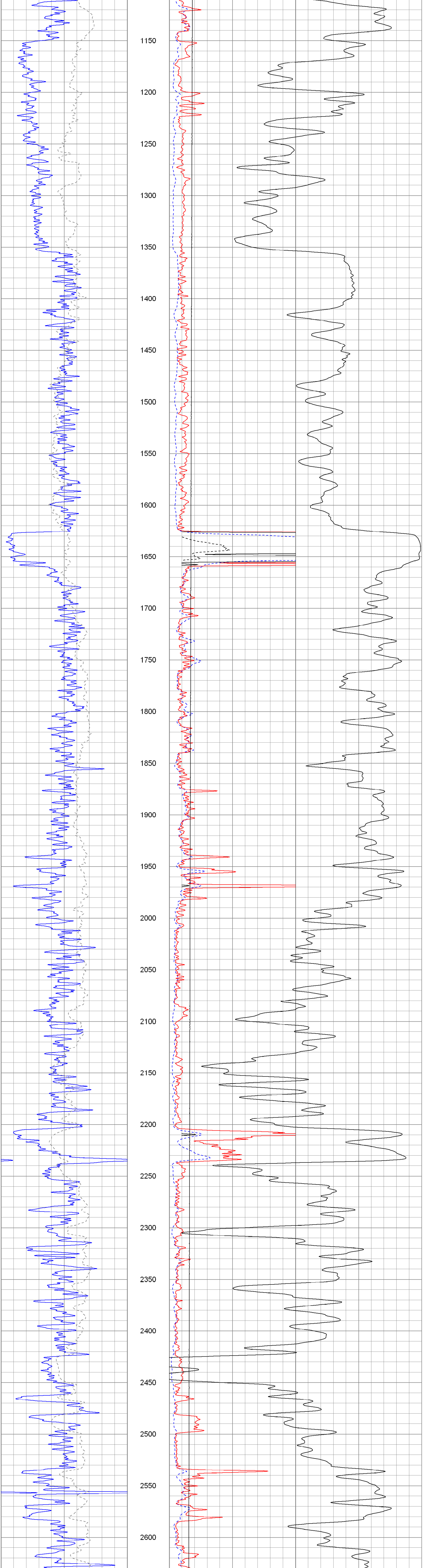
Thank you for using The Perforators LLC
Hays, KS (785) 621-4604

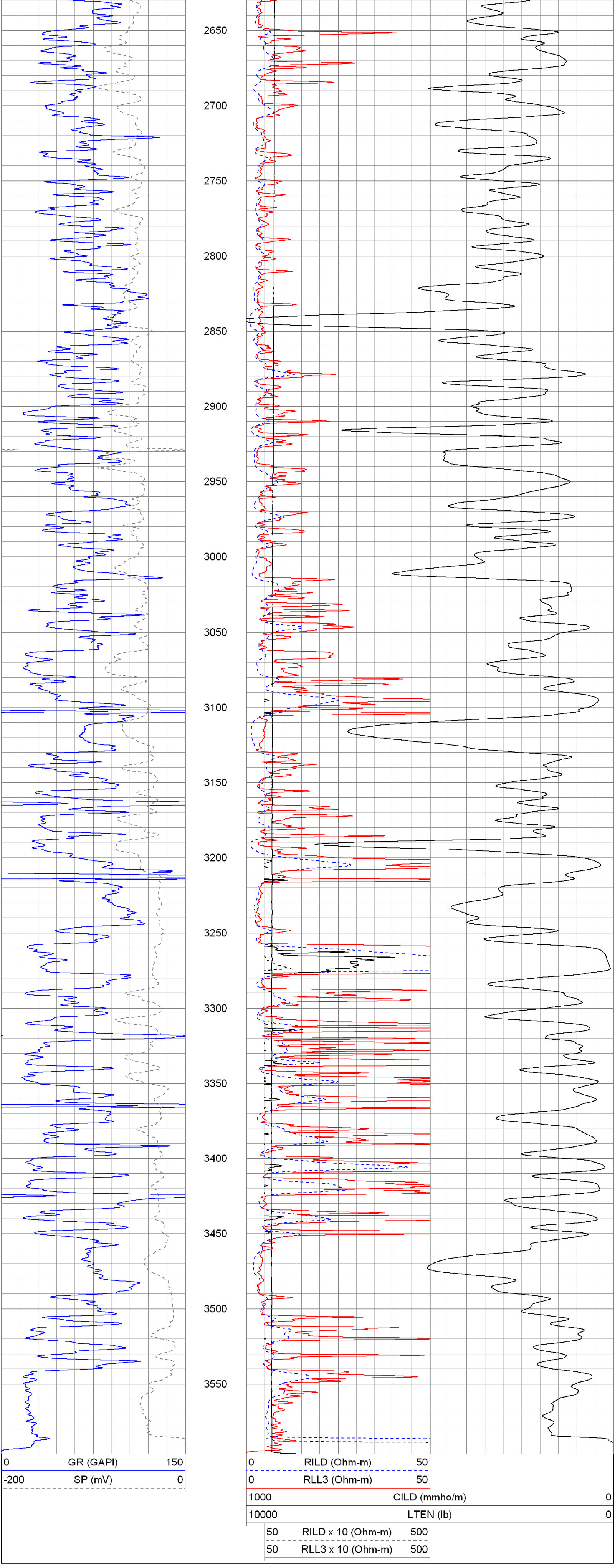
The Perforators LLC

Main Pass

Database File: jofstatesa#2oh.db
Dataset Pathname: pass2
Presentation Format: kdillin2
Dataset Creation: Mon Sep 24 02:34:12 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:600







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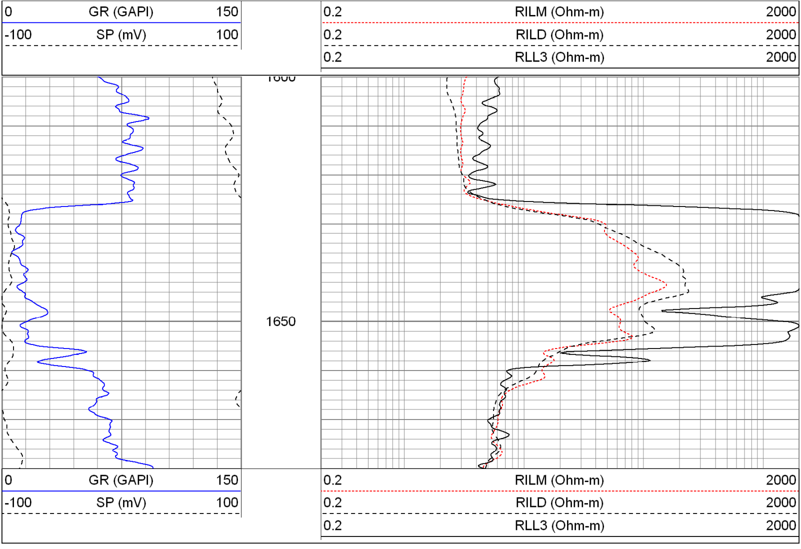
Main Pass

Database File:	jofstatesa#2oh.db
Dataset Pathname:	pass2
Presentation Format:	kdil
Dataset Creation:	Mon Sep 24 02:34:12 2012 by Log Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240



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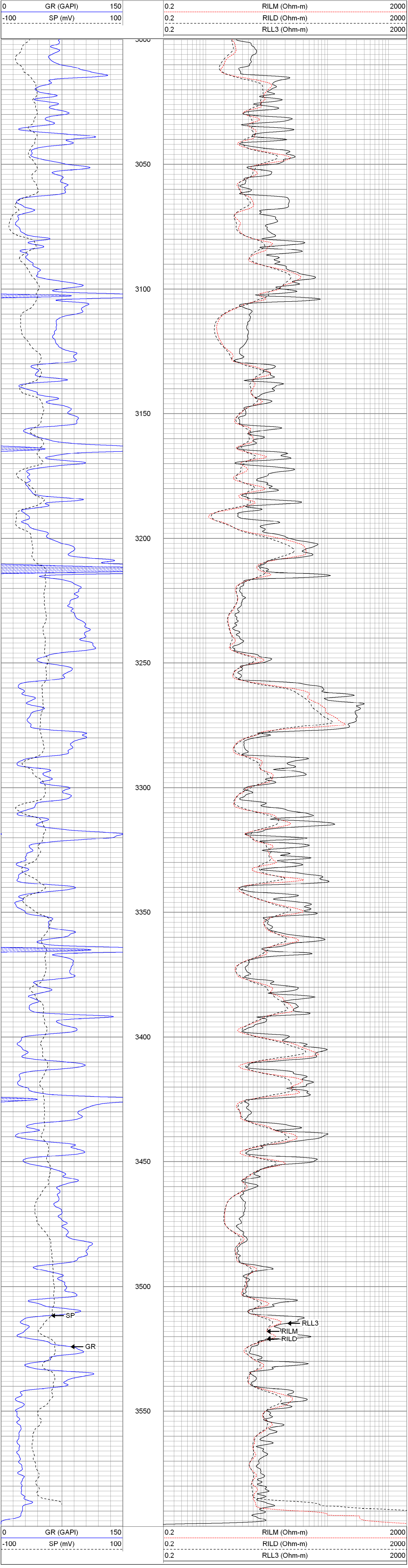
Main Pass

Database File: jofstatesa#2oh.db
Dataset Pathname: pass2
Presentation Format: kdil
Dataset Creation: Mon Sep 24 02:34:12 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240



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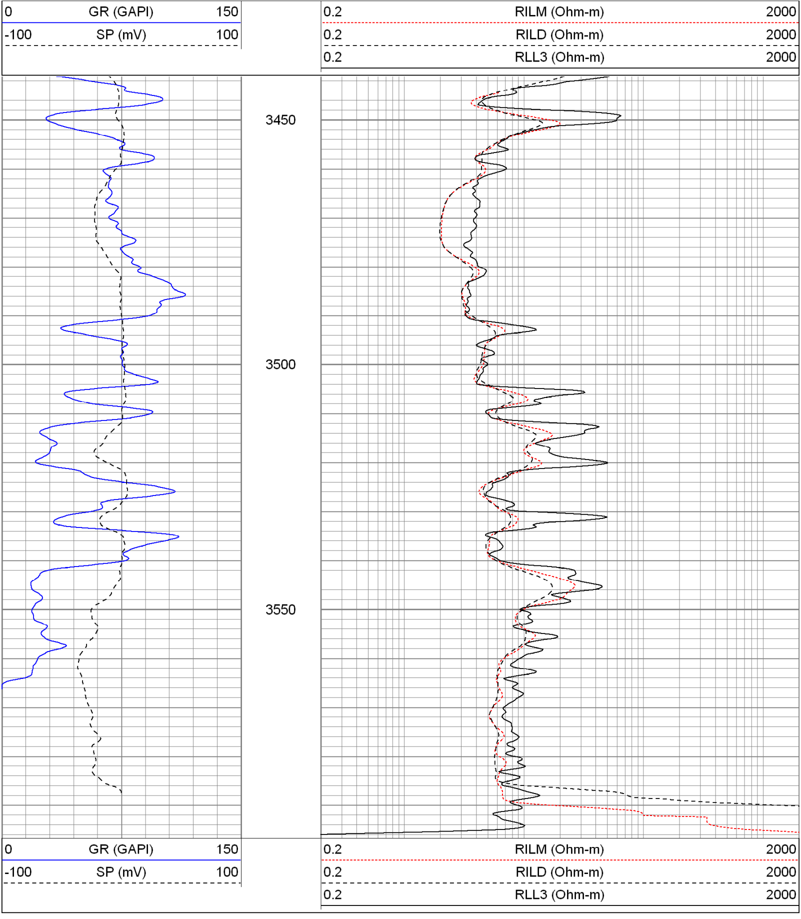
Repeat Pass

Database File: jofstatesa#2oh.db
Dataset Pathname: pass1
Presentation Format: kdil
Dataset Creation: Mon Sep 24 02:24:41 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: jofstatesa#2oh.db
Dataset Pathname: pass1
Dataset Creation: Mon Sep 24 02:24:41 2012 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 5375-G
Surface Cal Performed: Thu Sep 13 16:02:51 2012
Downhole Cal Performed: Thu Sep 13 16:03:26 2012

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.640	V	0.000	350.000	mmho/m	548.531	-1.045
Medium	0.005	0.742	V	0.000	400.000	mmho/m	542.602	-2.696
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.640	V	0.000	350.000	mmho/m	547.641	-0.739
Medium	0.005	0.742	V	0.000	550.000	mmho/m	745.701	-3.500

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.094	350.007	mmho/m	-0.305	350.264	mmho/m	1.002	-0.399
Medium	0.252	399.957	mmho/m	-0.149	400.053	mmho/m	1.001	-0.401
Shallow	2.471	0.009	V	500.000	2.000	Ohm-m	202.280	0.097

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

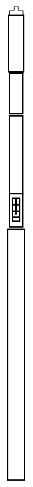
	Size		Reading
Small Ring	8.25	in	5771.32
Large Ring	14.00	in	10165.20

Gamma Ray Calibration Report

Serial Number:	2001	
Tool Model:	OH	
Performed:	Sat Sep 22 13:47:45 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-G (5375) Gearhart	21.47	4.00	345.00
SP	10.60					
CILM	6.89					
RLL3	1.70					

Dataset: jofstatesa#2oh.db: field/well/run1/pass1
Total Length: 40.39 ft
Total Weight: 676.00 lb
O.D. 4.00 in