The Perforators LLC

DUAL INDUCTION LOG

Company	Charles N. Griffin
Well	Randels #2
Field	Toni-Mike
County	Barber
State	Kansas

Company Charles N. Griffin
Well Randels #2
Field Toni-Mike
County Barber **State** Kansas

Location: API # : 15 007 23733
2780' FSL & 1561' FEL
SEC 34 TWP 32S RGE 12W

Other Services
CDNL

Permanent Datum **Ground Level** Elevation **1561'**
Log Measured From **KB 8' AGL**
Drilling Measured From **KB**

Elevation
K.B. 1569'
D.F. 1568'
G.L. 1561'

Date	7-15-11		
Run Number	One		
Depth Driller	5100'		
Depth Logger	5100'		
Bottom Logged Interval	5098'		
Top Log Interval	3600'		
Casing Driller	266'		
Casing Logger	266'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.5/68		
pH / Fluid Loss	9.5/10.4		
Source of Sample	Pit		
Rm @ Meas. Temp	1.9@86degf		
Rmf @ Meas. Temp	1.52@96degf		
Rmc @ Meas. Temp	3.04@96degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.57@116degf		
Time Circulation Stopped	4:30 a.m.		
Time Logger on Bottom	6:30 a.m.		
Maximum Recorded Temperature	116 degf		
Equipment Number	T045		
Location	Hays, KS.		
Recorded By	L. Smith		
Witnessed By	Mr. Bruce Reed	Mr. Chuck Griffin	

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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

South of Medicine Lodge on 281 2.5 mi. ,
W on College Valley Rd. Stay on main rd.,
go past gas plant approx. 1.5 miles and turn right accross cattle guard to location

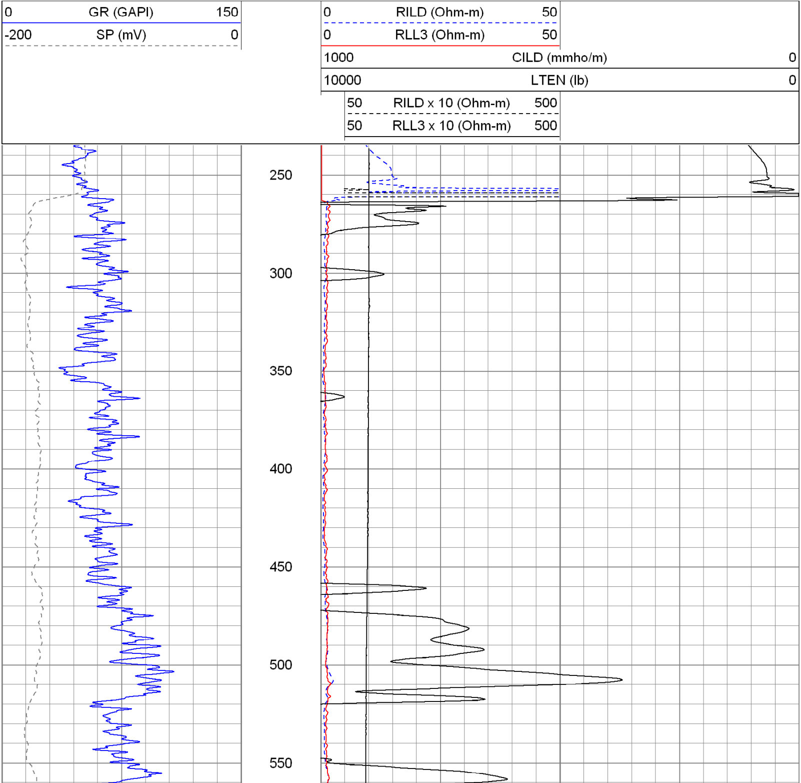
ABHV Caculated for 5.5" Casing.

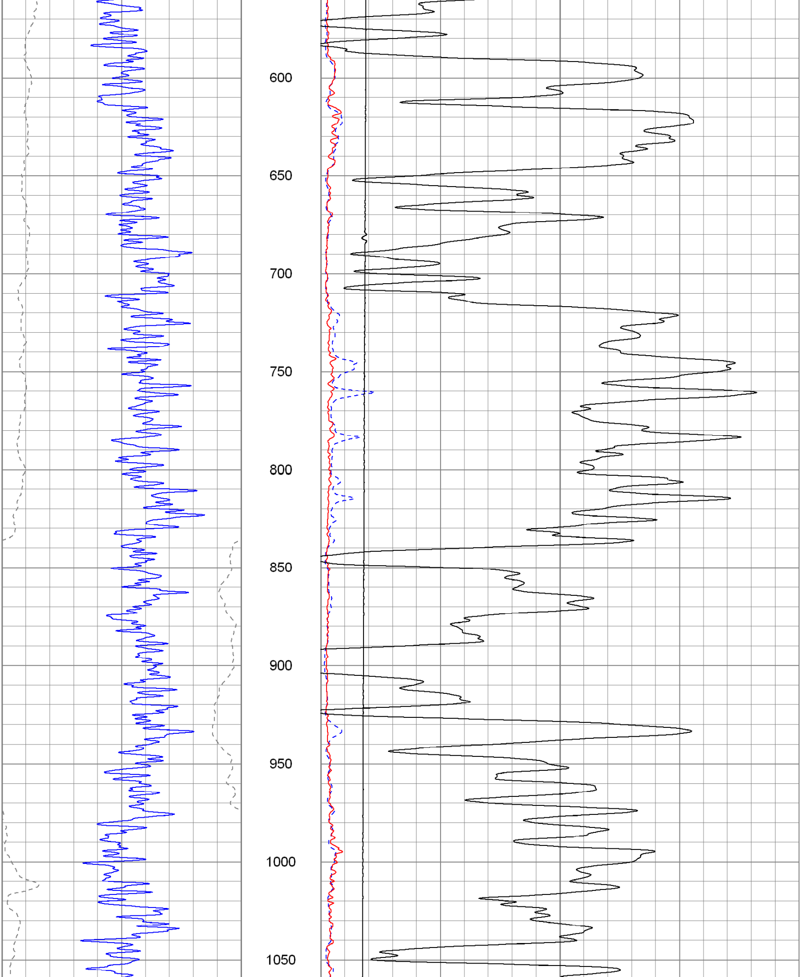
Thanks for using The Perforators LLC Hays, KS. (785-621-4604)

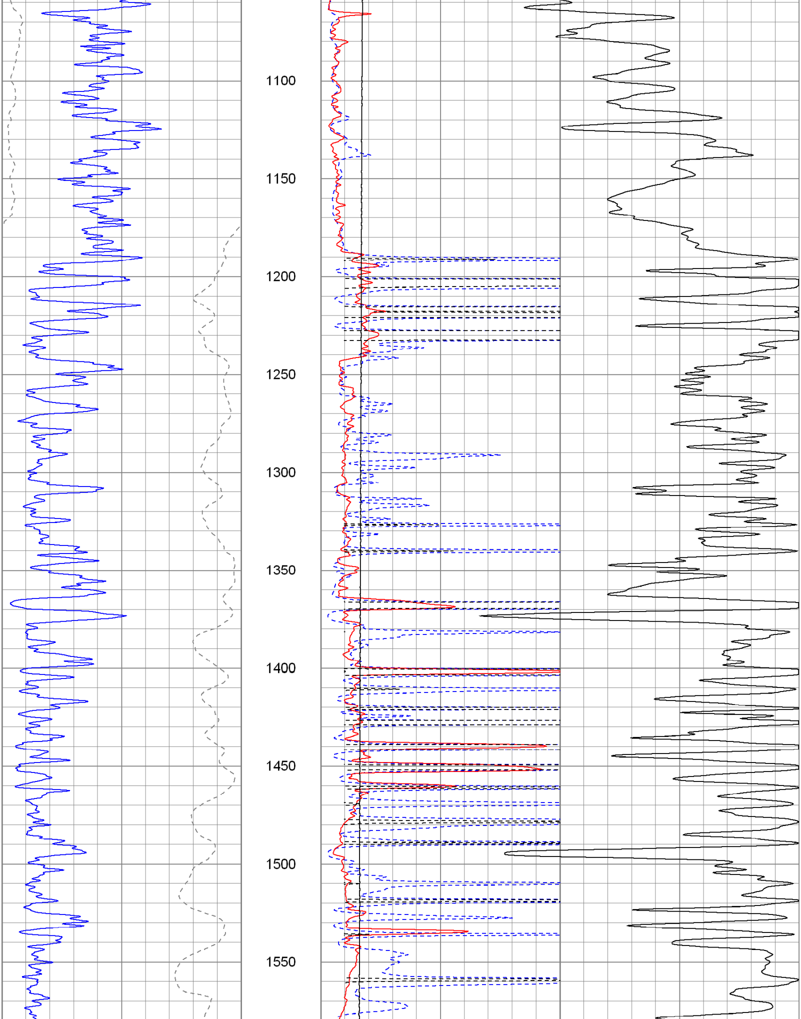
The Perforators LLC

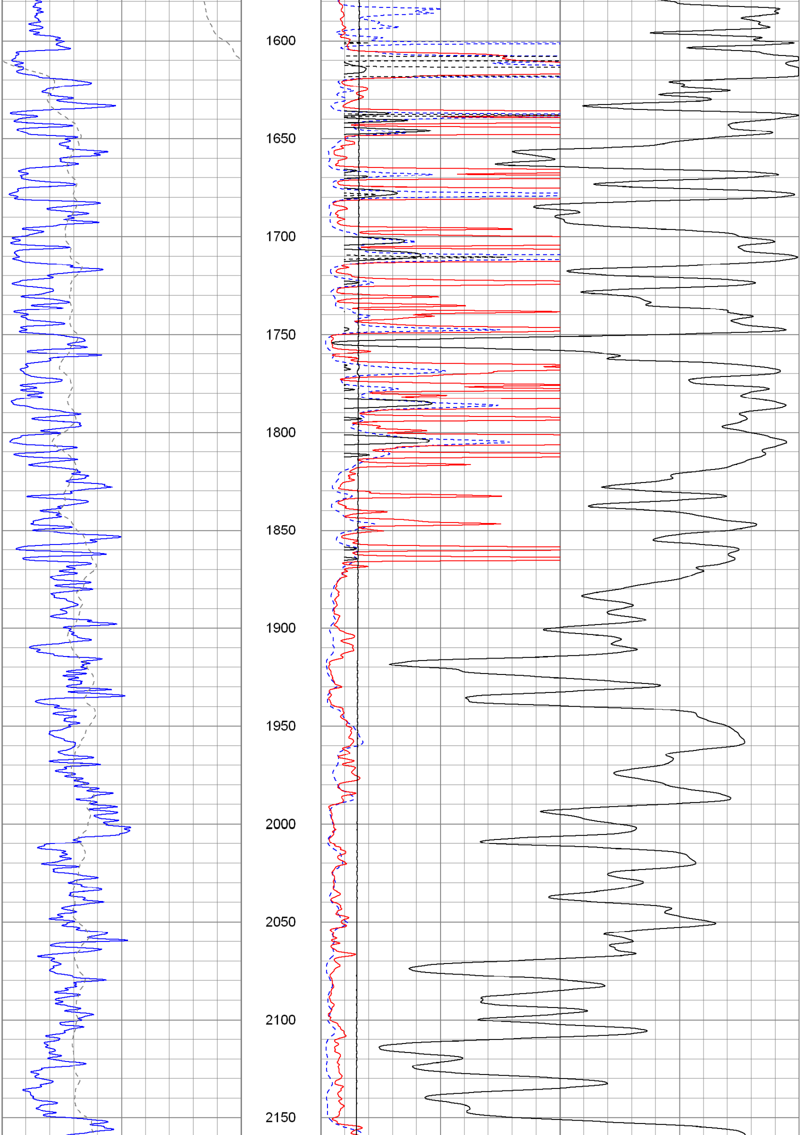
Main Pass

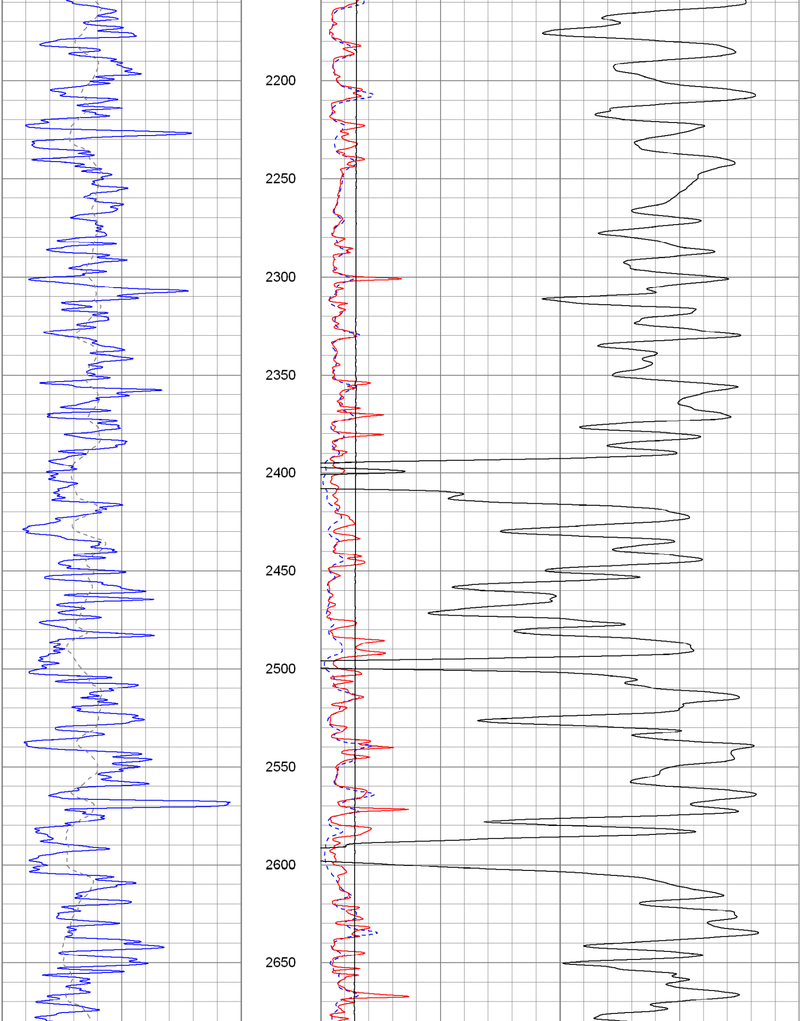
Database File: cgrandles#2oh.db
Dataset Pathname: pass2.1
Presentation Format: kdillin2
Dataset Creation: Fri Jul 15 08:07:16 2011 by Calc Open-Cased 100827
Charted by: Depth in Feet scaled 1:600

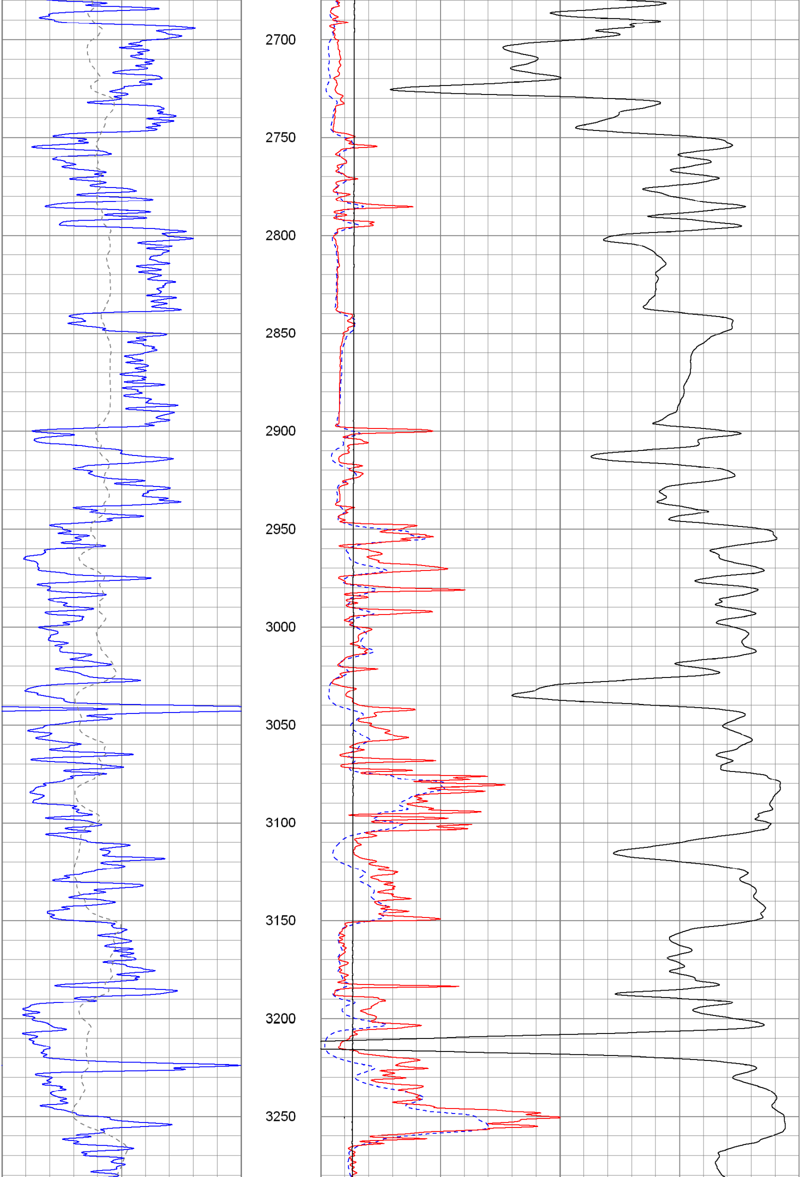


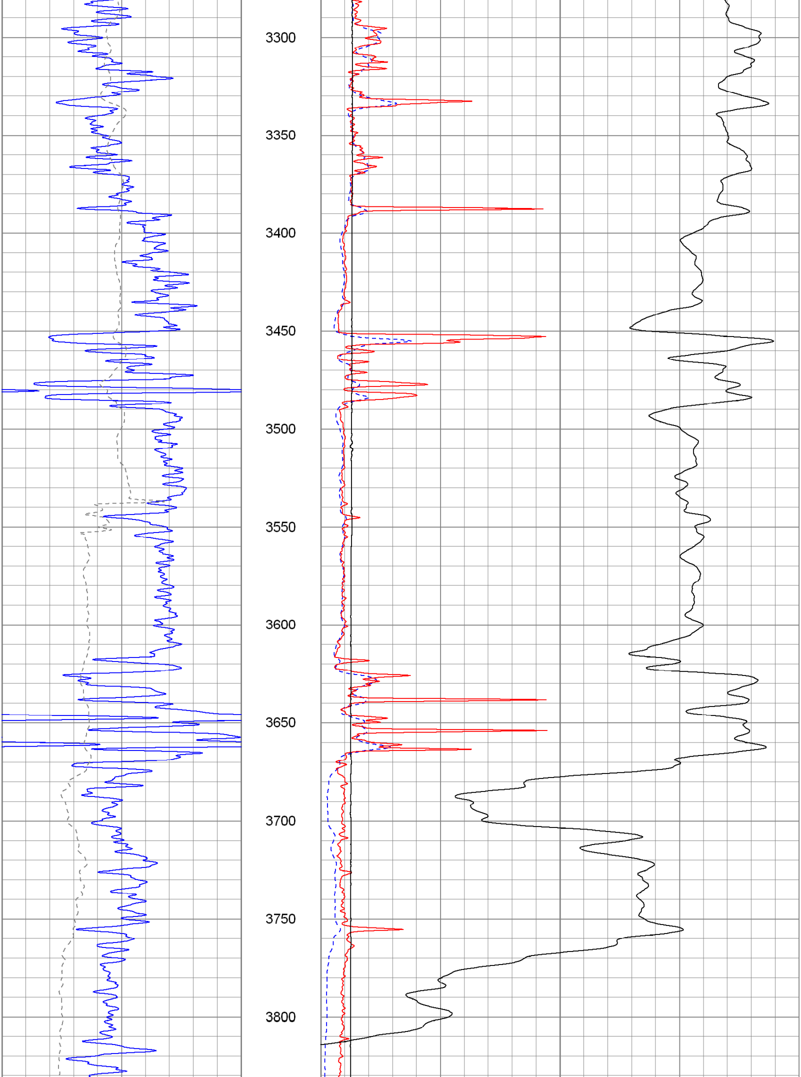


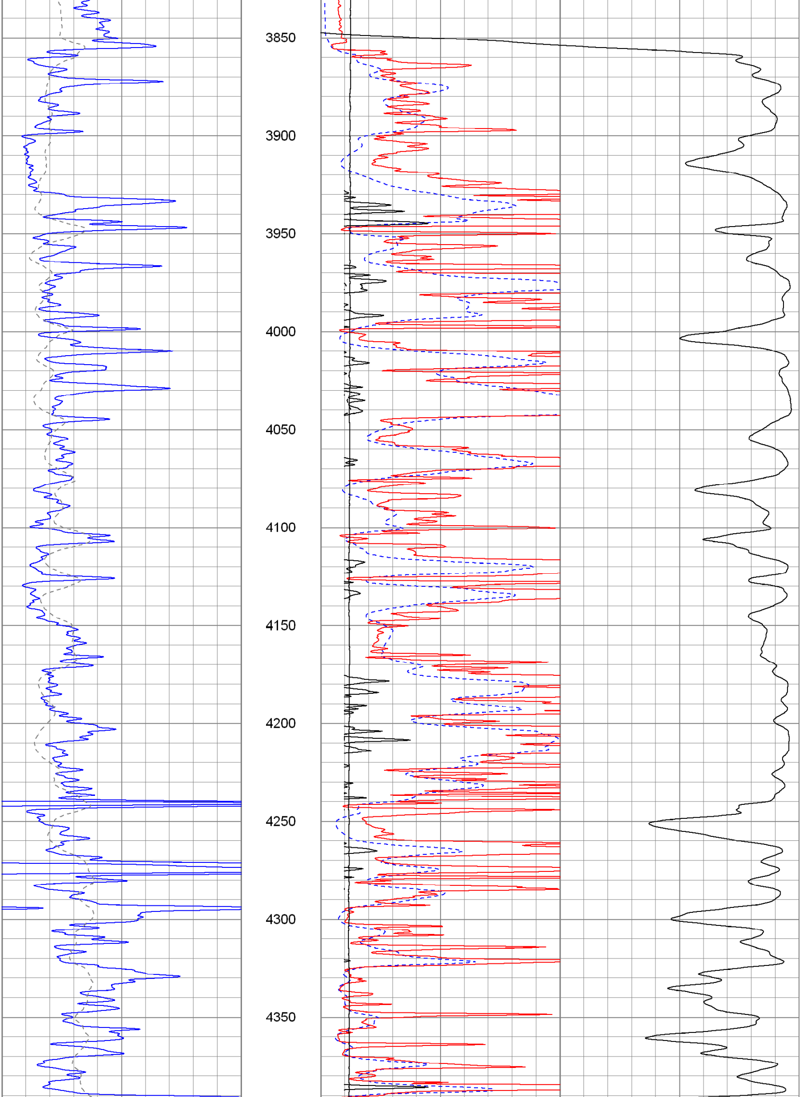


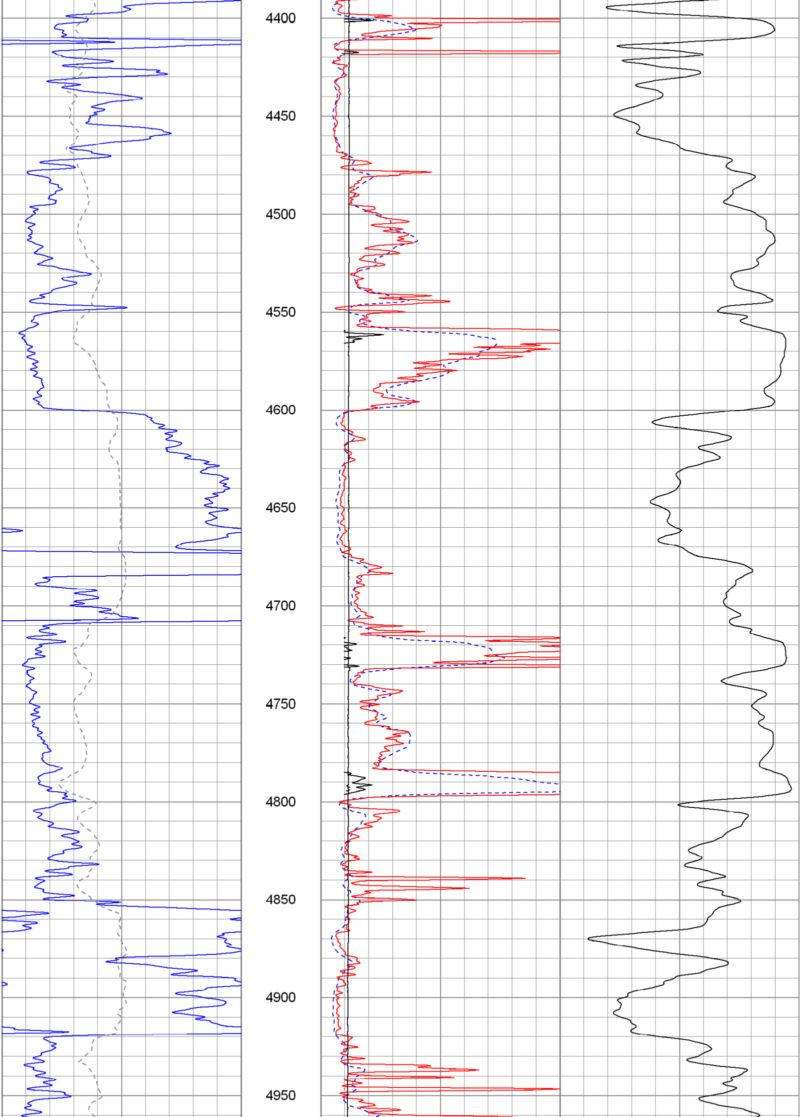


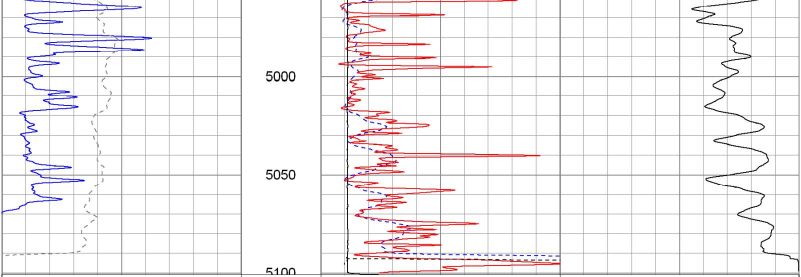












0 GR (GAPI) 150

-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:	cgrandles#2oh.db
Dataset Pathname:	pass2.1
Presentation Format:	kdil
Dataset Creation:	Fri Jul 15 08:07:16 2011 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

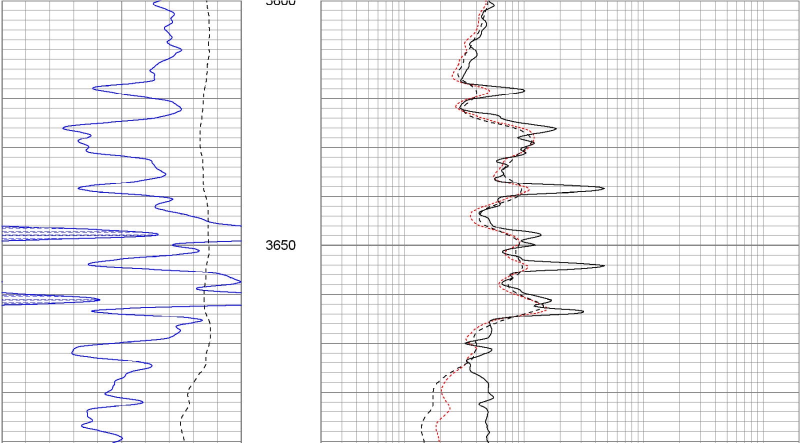
0 GR (GAPI) 150

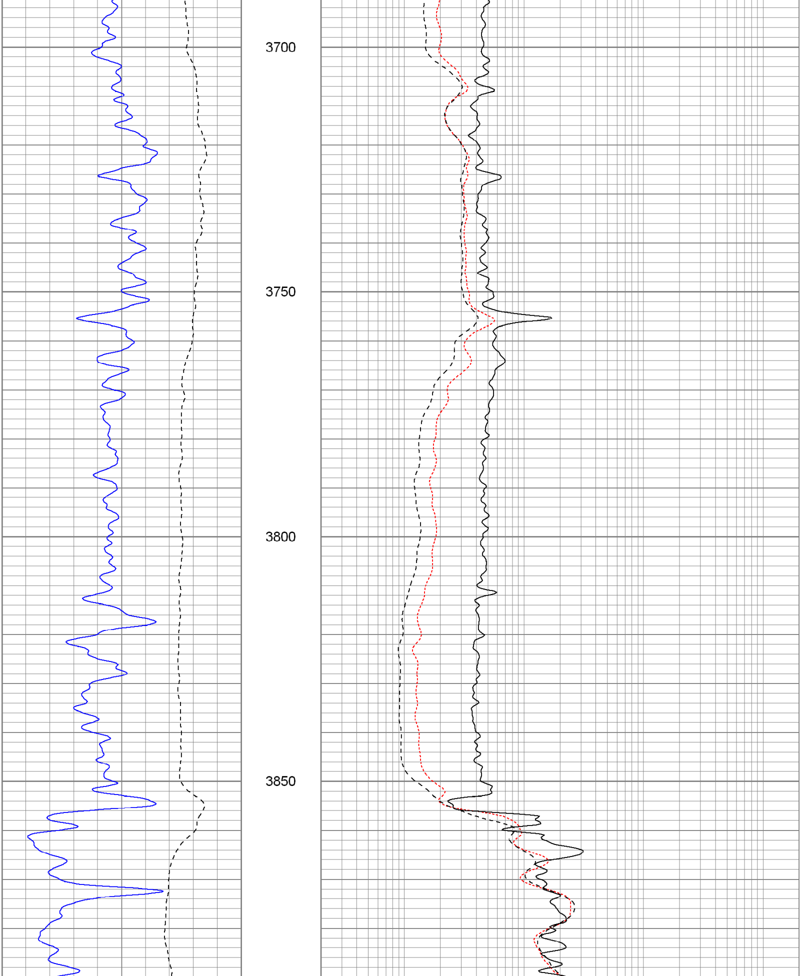
-100 SP (mV) 100

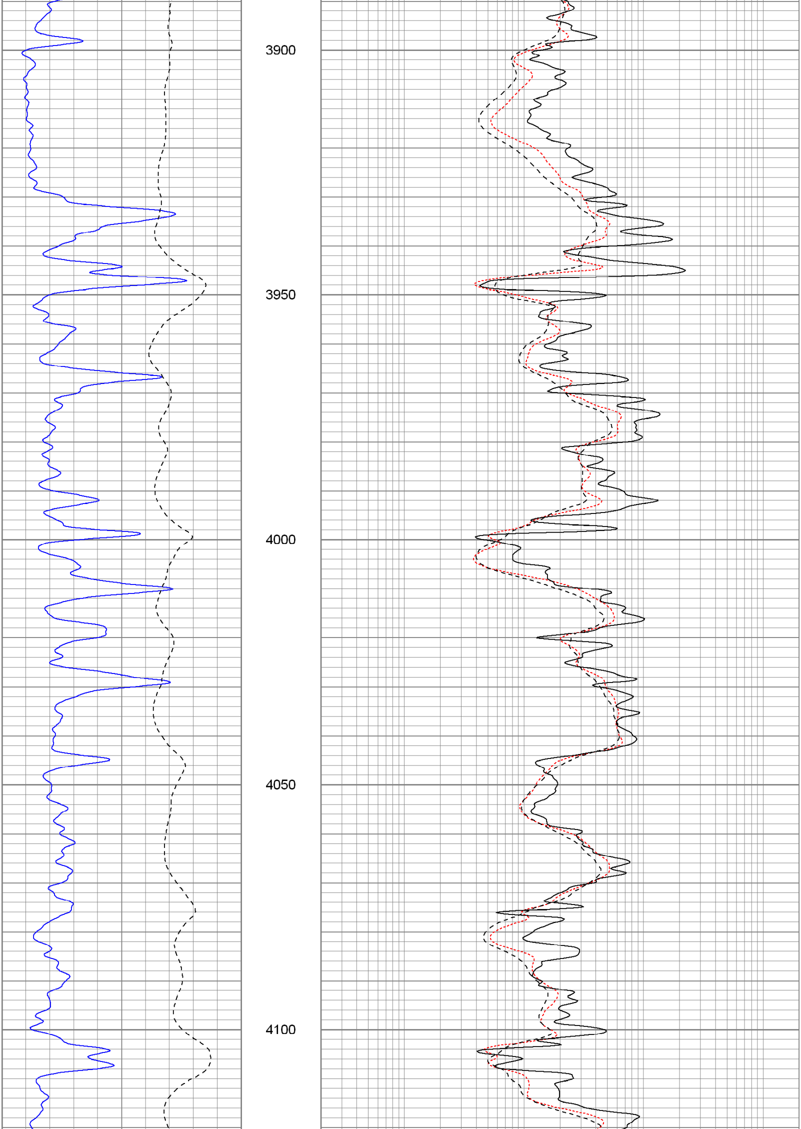
0.2 RILM (Ohm-m) 2000

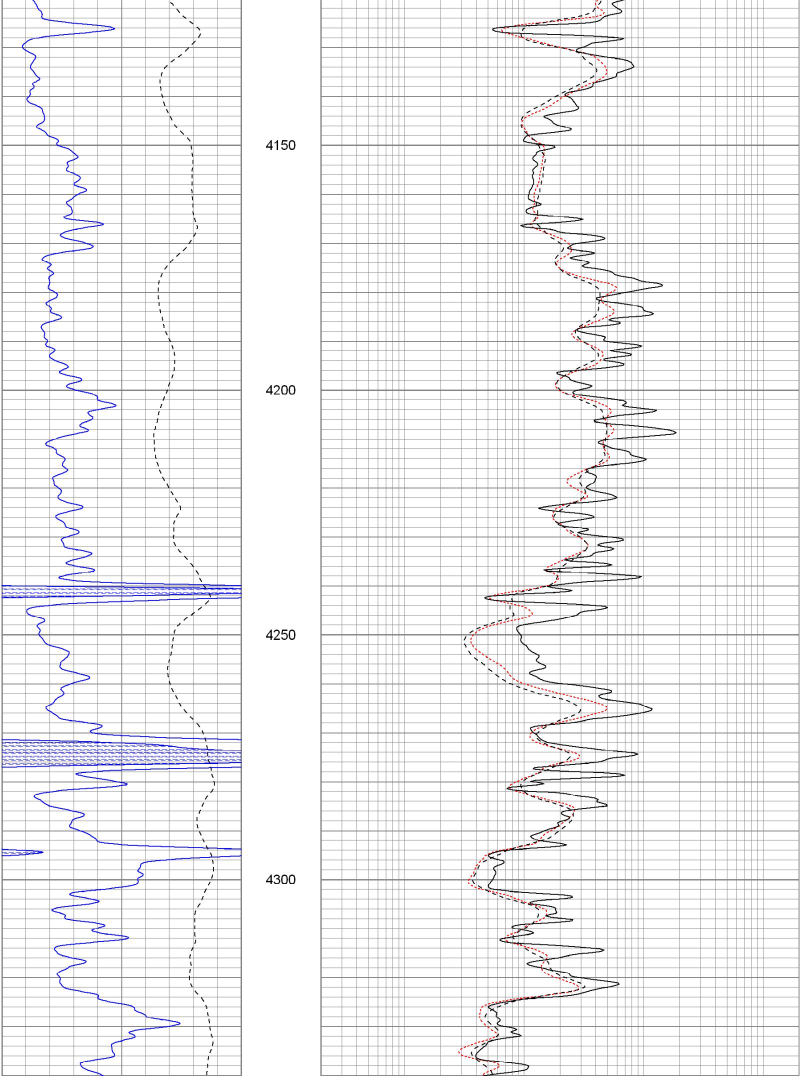
0.2 RILD (Ohm-m) 2000

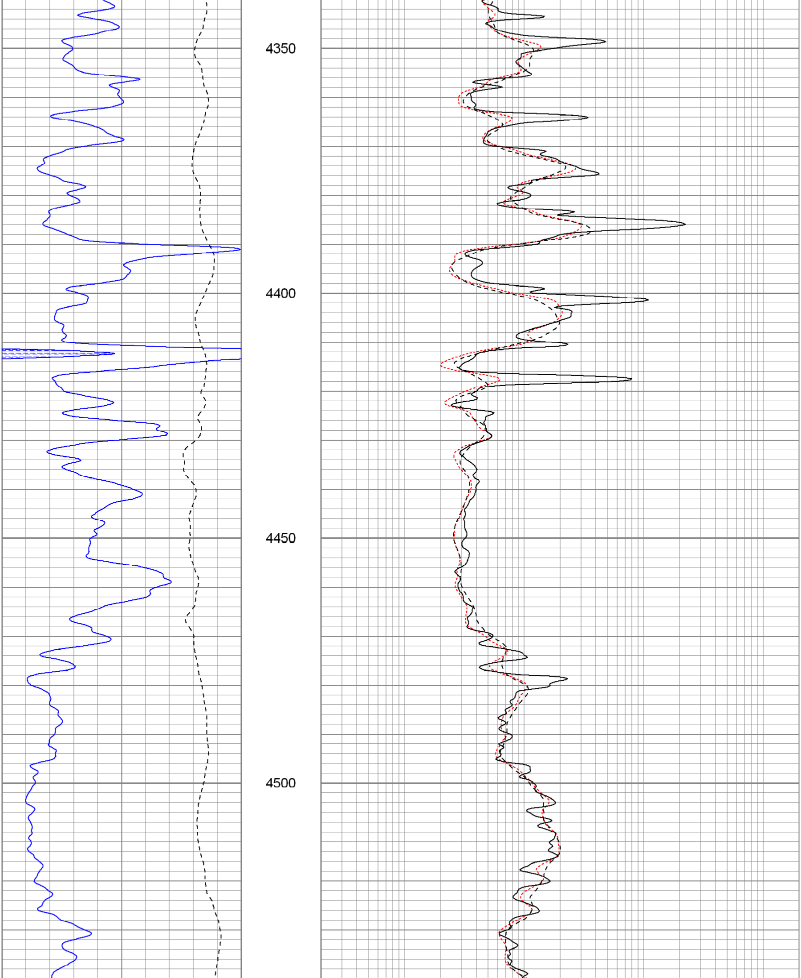
0.2 RLL3 (Ohm-m) 2000

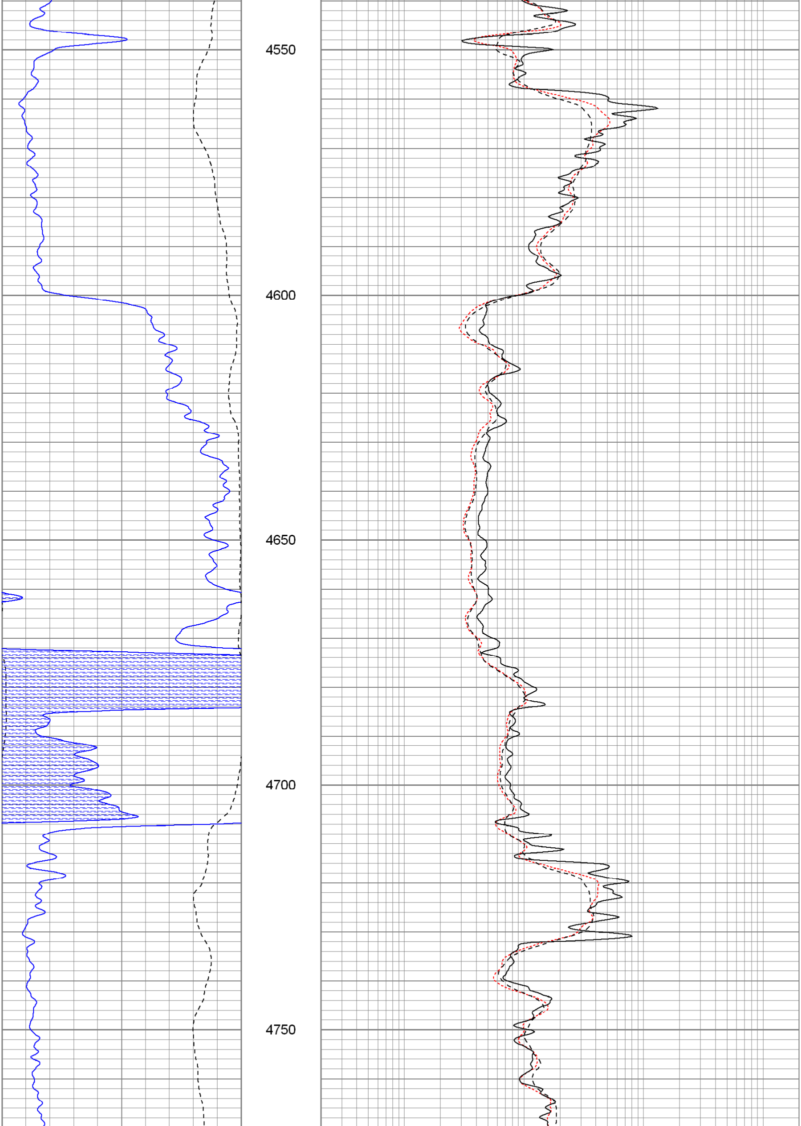


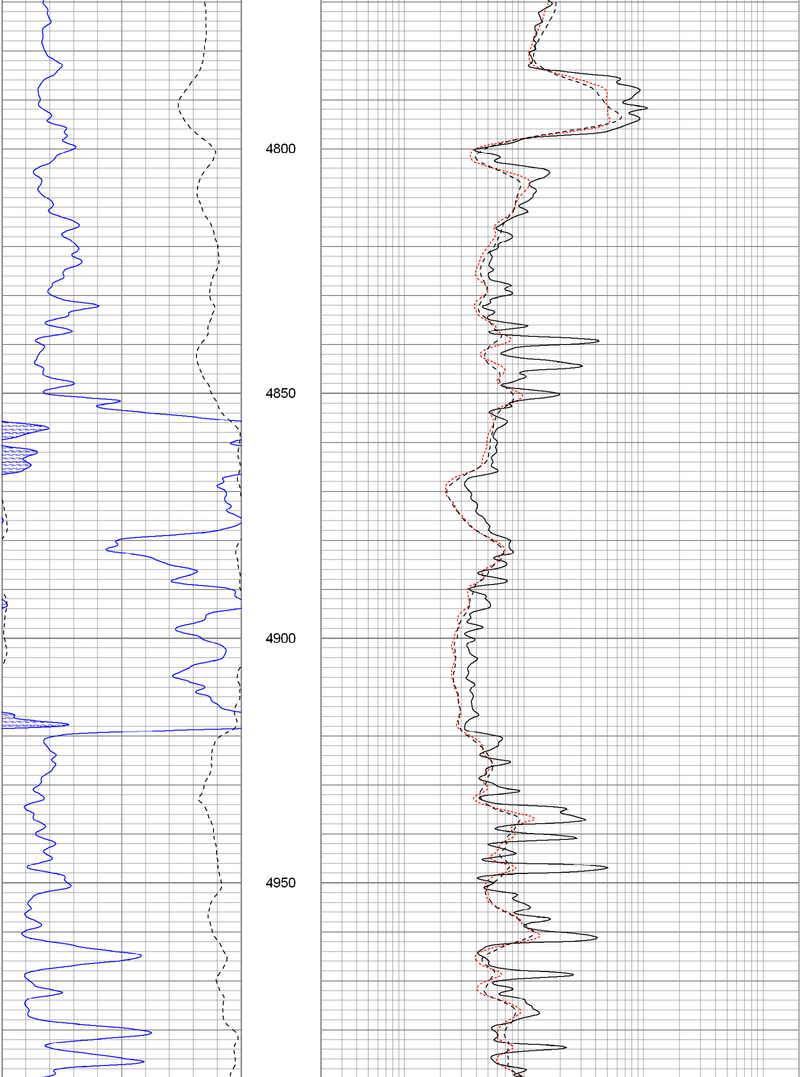


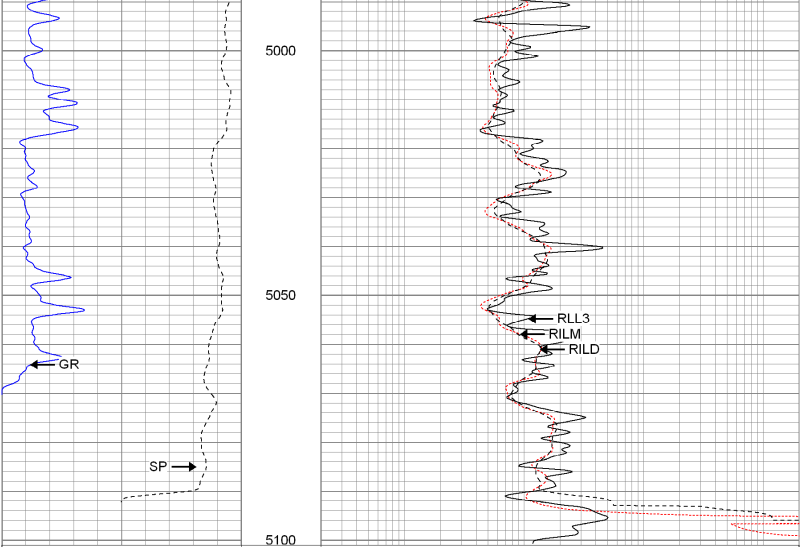












0 GR (GAPI) 150
-100 SP (mV) 100

0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

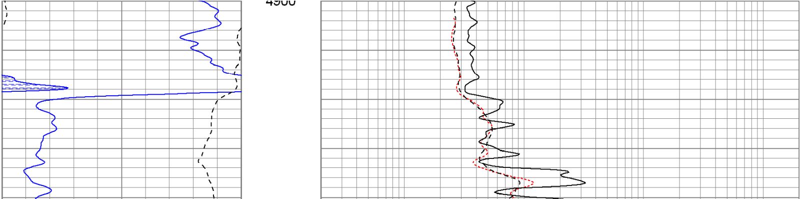
The Perforators LLC

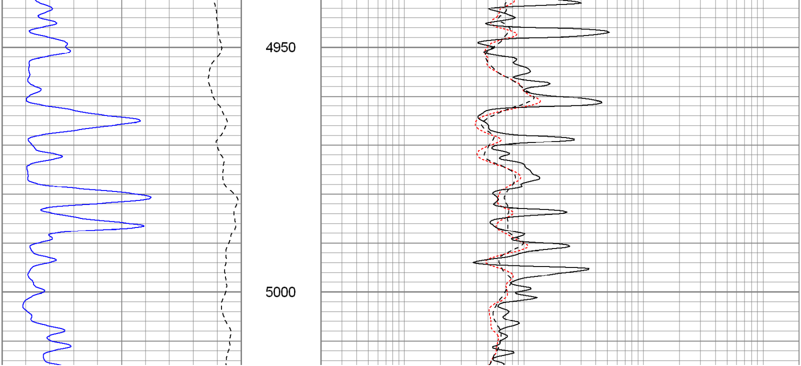
Repeat Pass

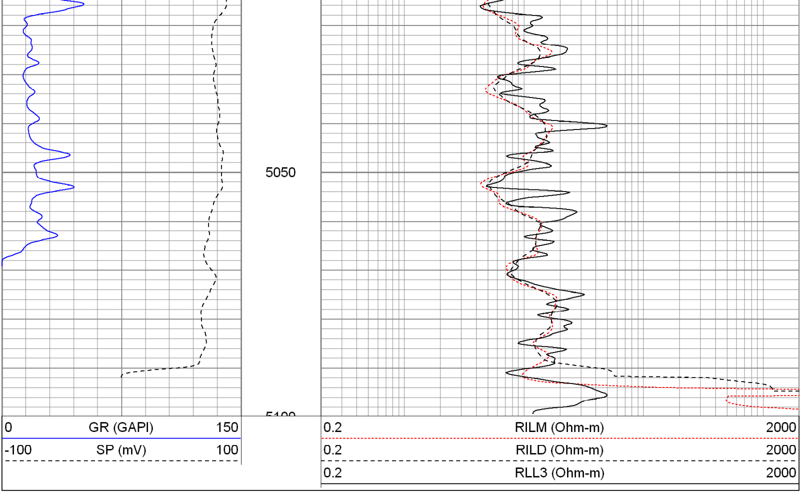
Database File:	cgrandles#2oh.db
Dataset Pathname:	pass1.1
Presentation Format:	kdil
Dataset Creation:	Fri Jul 15 07:50:50 2011 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

0 GR (GAPI) 150
-100 SP (mV) 100

0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000







Calibration Report

Database File: cgrandles#2oh.db
Dataset Pathname: pass1.1
Dataset Creation: Fri Jul 15 07:50:50 2011 by Calc Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 080522-Probe
Surface Cal Performed: Fri Apr 29 21:50:46 2011
Downhole Cal Performed: Fri Apr 29 21:50:49 2011
After Survey Verification Performed: Tue Mar 15 11:48:43 2011

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.000	0.638	V	0.000	400.000	mmho/m	626.857	0.275
Medium	0.001	0.741	V	0.000	464.000	mmho/m	626.953	-0.823
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.638	V	0.000	400.000	mmho/m	627.013	-0.291
Medium	0.001	0.741	V	0.000	464.000	mmho/m	627.190	-0.915

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.096	400.608	mmho/m	0.566	400.467	mmho/m	0.998	0.471
Medium	-0.069	464.142	mmho/m	0.092	463.916	mmho/m	0.999	0.161
LL3		7.358	V		750.000	Ohm-m		
		0.001	V		12.000	Ohm-m		
		-7.218	V		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model:	2388DHT-DHT
Source / Verifier:	/
Master Calibration Performed:	Fri Jul 15 06:33:22 2011

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	704.95	309.55	cps
Aluminum	2.620	g/cc	144.73	200.15	cps

Spine Angle = 74.60

Density/Spine Ratio = 0.530

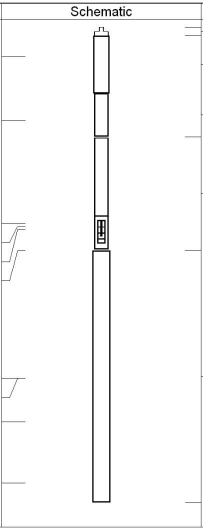
	Size		Reading
Small Ring	8.05	in	5771.32
Large Ring	14.00	in	10165.20

Gamma Ray Calibration Report

Serial Number:	2000	
Tool Model:	P2000	
Performed:	Wed Jun 01 11:04:27 2011	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2200	GAPI/cps

Neutron Calibration Report

Serial Number:	5108	
Tool Model:	PROBE	
Performed:	Mon Jun 20 04:43:04 2011	
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	37.96		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.57		GR-P2000 (2000)	3.67	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:	cgrandles#2oh.db: field/well/run1/pass1.1
Total Length:	40.49 ft
Total Weight:	676.00 lb
O.D.	4.00 in