Company	Gra Ex LLC
Well	Staub #1
Field	Seevers NW
County	Stafford
State	Kansas

GEMINI WIRELINE

DUAL INDUCTION LOG

Company	Gra Ex LLC		
Well	Staub #1		
Field	Seevers NW		
County	Stafford	State	Kansas

Location: API # : 15 185 23751

920' FNL & 960' FEL

SEC 31 TWP 24S RGE 13W

Other Services
CDNL
ML

Permanent Datum	Ground Level	Elevation	1940'
Log Measured From	KB 5' AGL		
Drilling Measured From	KB		

Elevation
K.B. 1945'
D.F. 1944'
G.L. 1940'

Date	6-21-12		
Run Number	One		
Depth Driller	4320'		
Depth Logger	4320'		
Bottom Logged Interval	4318'		
Top Log Interval	3400'		
Casing Driller	291'		
Casing Logger	291'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.4/54		
pH / Fluid Loss	9.5/10.8		
Source of Sample	Pit		
Rm @ Meas. Temp	.7@73degf		
Rmf @ Meas. Temp	.53@73degf		
Rmc @ Meas. Temp	.85@73degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.46@120degf		
Time Circulation Stopped	10:30 a.m.		
Time Logger on Bottom	12:45 p.m.		
Maximum Recorded Temperature	120 degf		
Equipment Number	T045		
Location	Hays, KS.		
Recorded By	L. Smith		
Witnessed By	Mr. Jeffery Burke		

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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

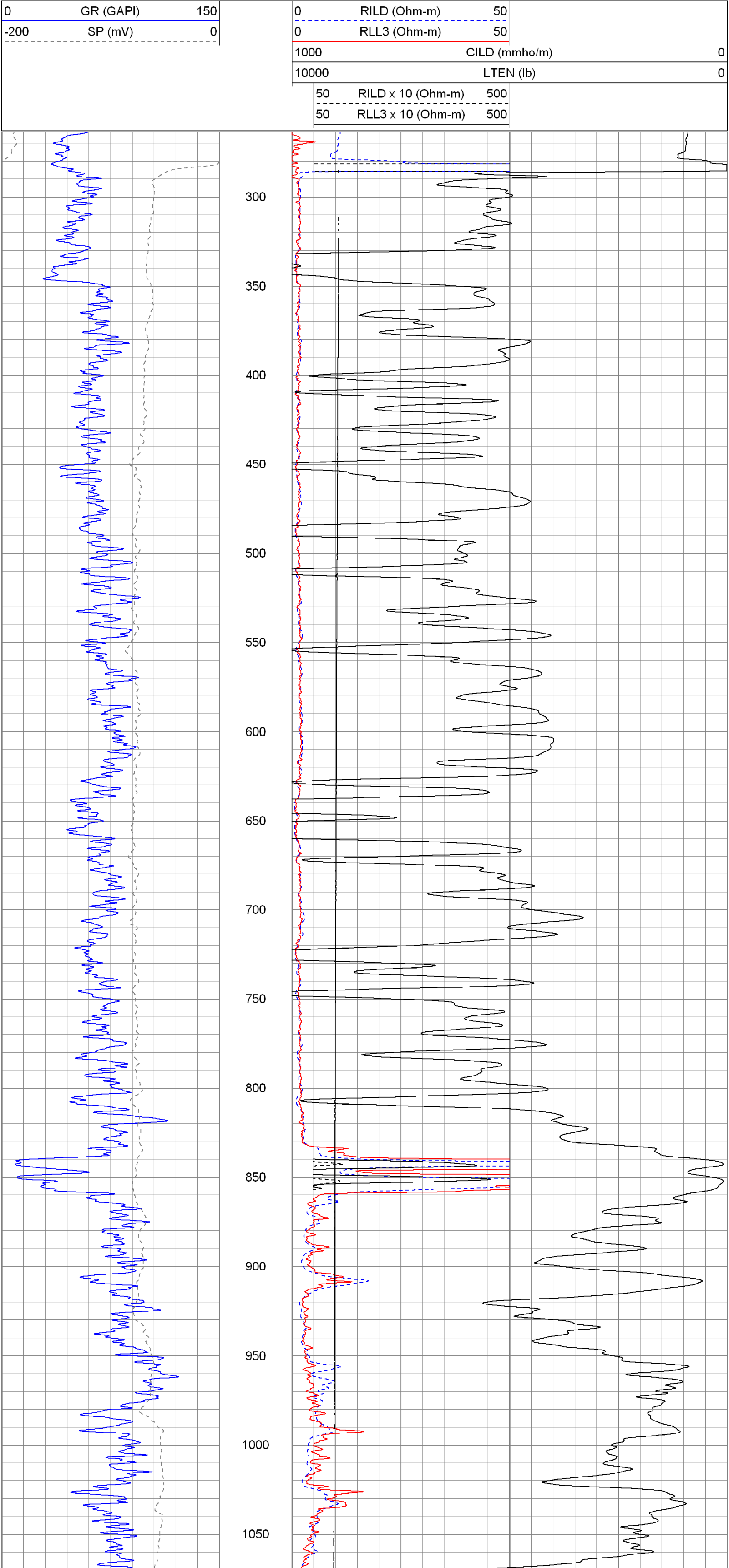
St. John south to Hwy. 50, West to SW 20th Ave., S 2.5, W into.

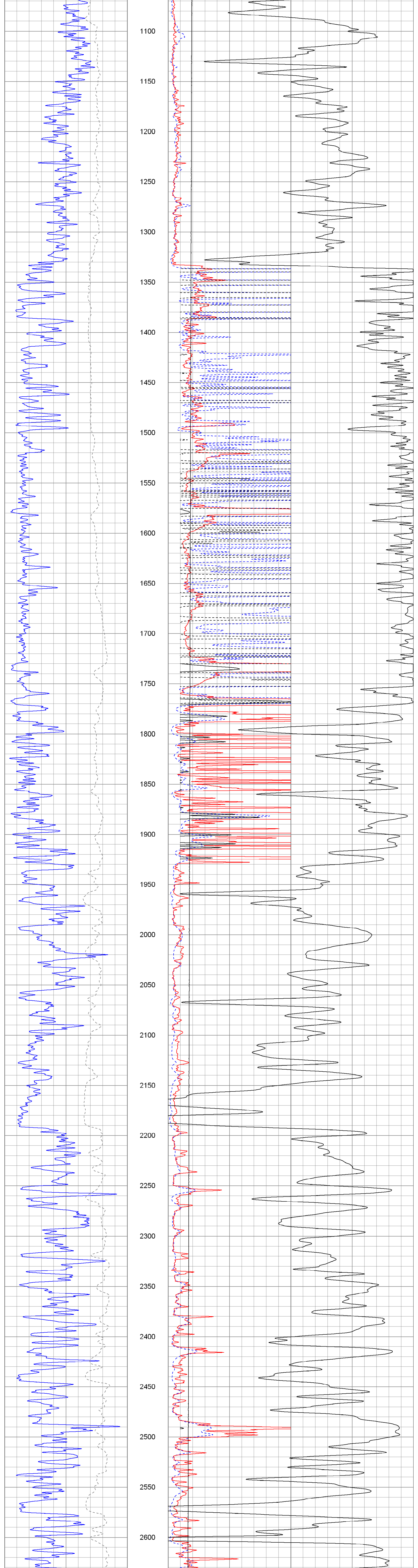
Thanks for using The Perforators LLC Hays, KS. (785-621-4604)

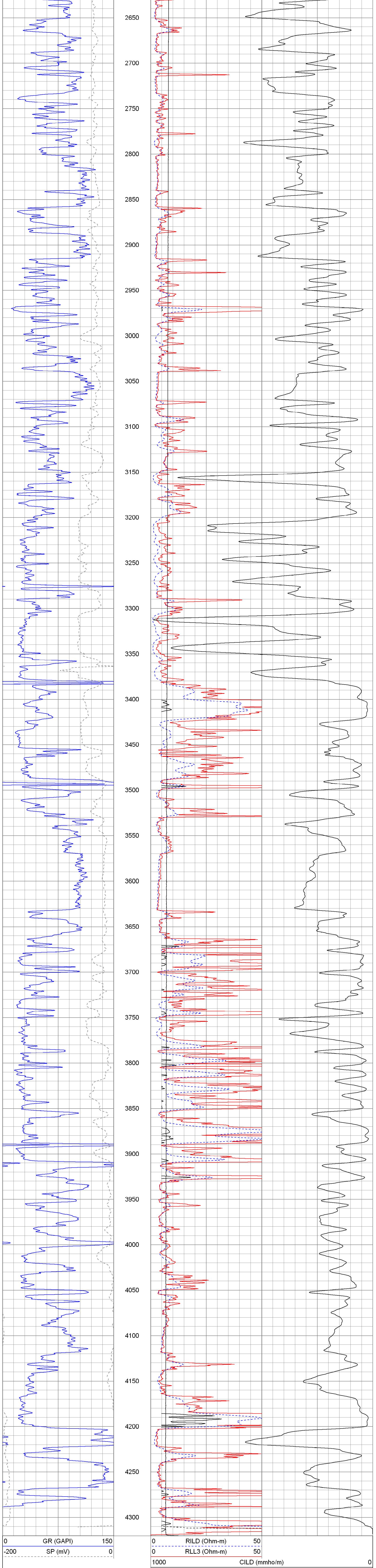
GEMINI WIRELINE

Main Pass

Database File:	gestaub#1oh.db
Dataset Pathname:	pass2.1
Presentation Format:	kdillin2
Dataset Creation:	Thu Jun 21 14:03:10 2012 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:600







10000 LTEN (lb) 0

50 RILD x 10 (Ohm-m) 500

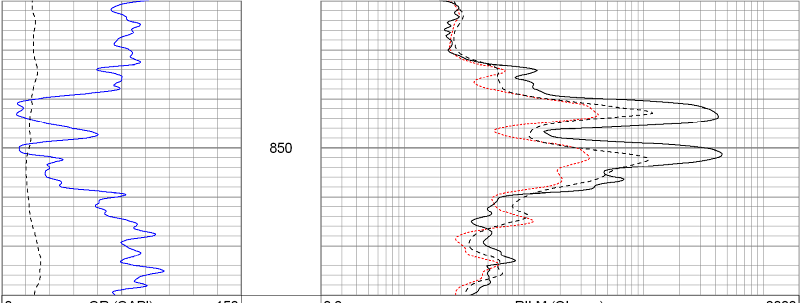
50 RLL3 x 10 (Ohm-m) 500

Main Pass

Database File: gestaub#1oh.db
Dataset Pathname: pass2.1
Presentation Format: kdil
Dataset Creation: Thu Jun 21 14:03:10 2012 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

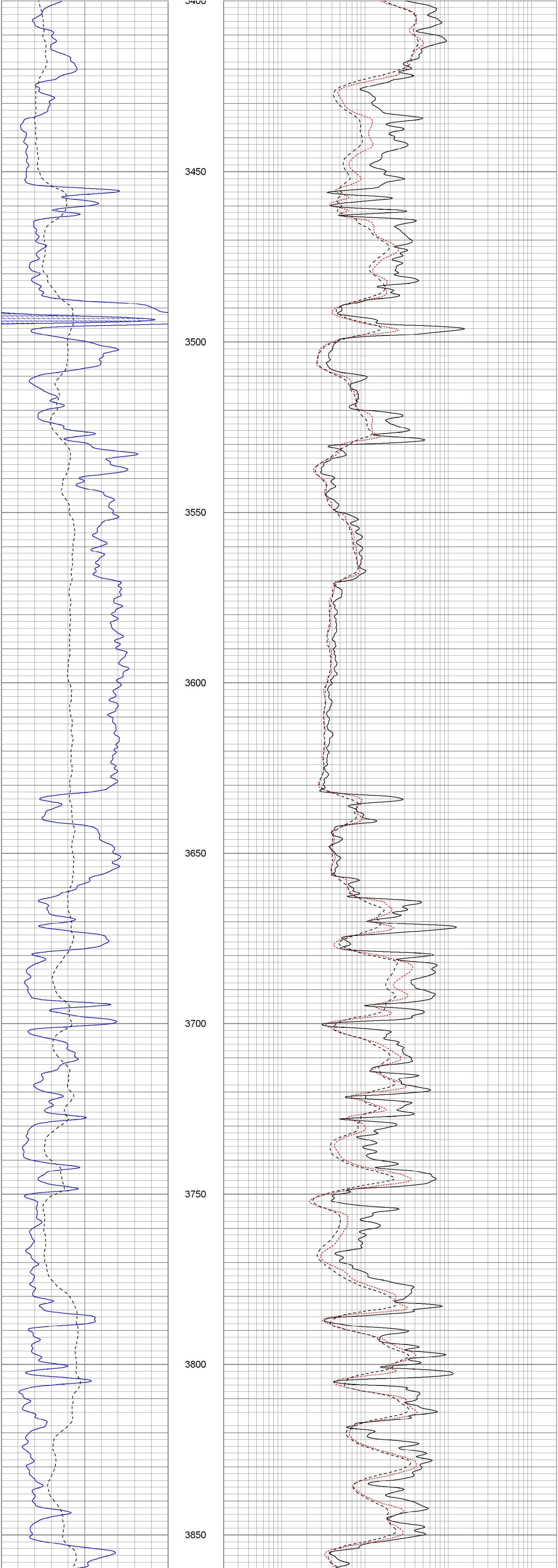
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

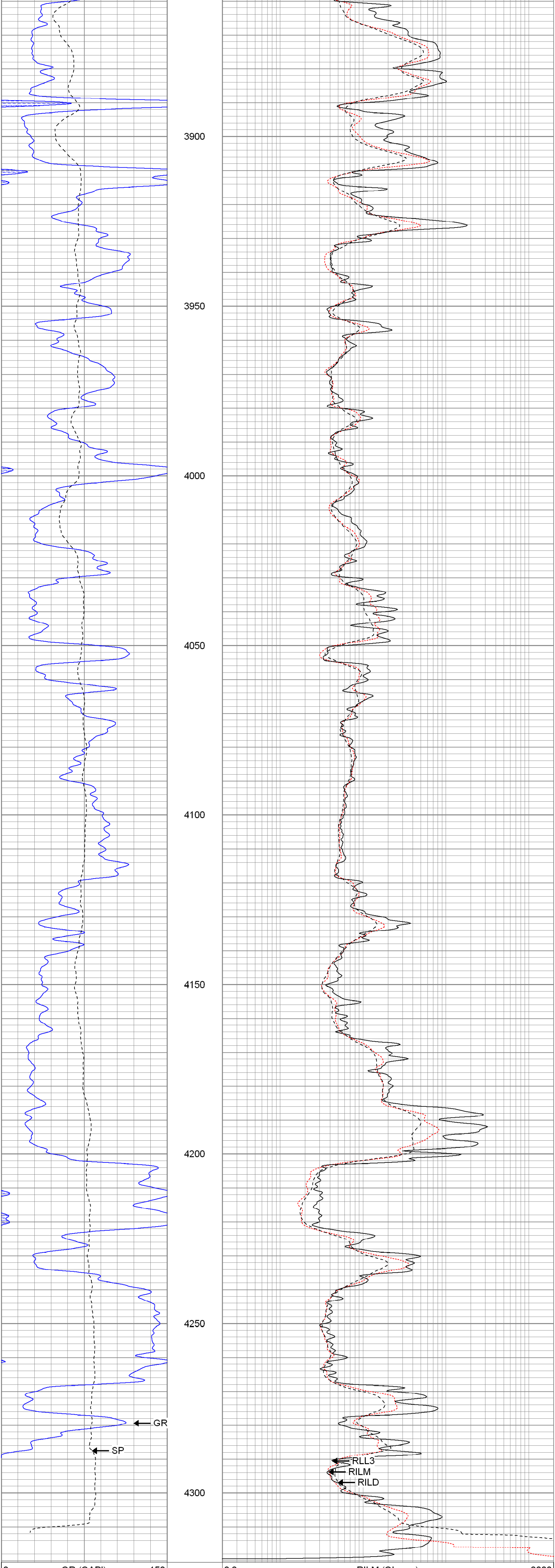
Main Pass

Database File: gestaub#1oh.db
Dataset Pathname: pass2.1
Presentation Format: kdil
Dataset Creation: Thu Jun 21 14:03:10 2012 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

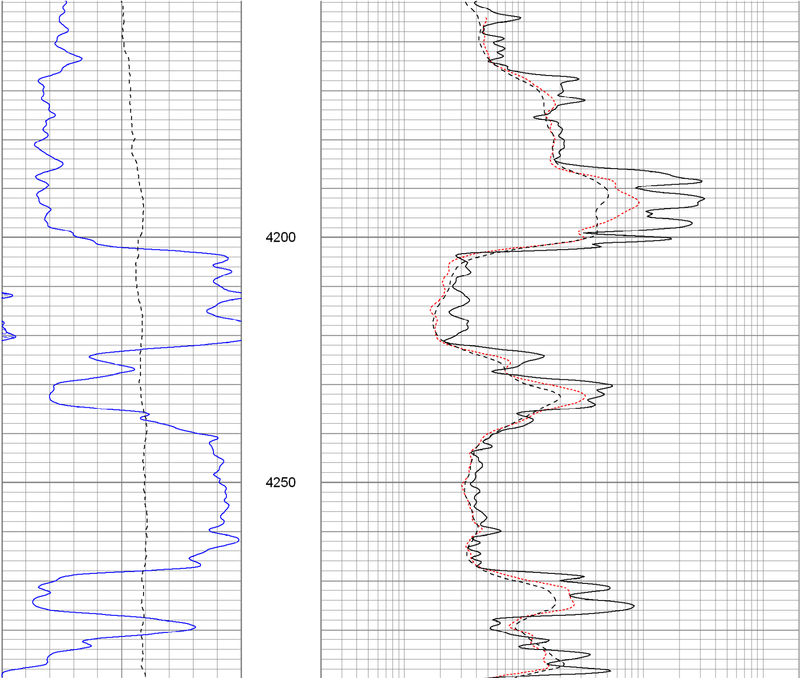
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

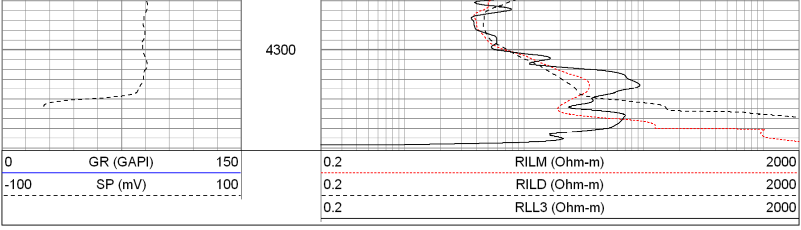
Repeat Pass

Database File:	gestaub#1oh.db
Dataset Pathname:	pass1.1
Presentation Format:	kdil
Dataset Creation:	Thu Jun 21 13:03:30 2012 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: gestaub#1oh.db
Dataset Pathname: pass1
Dataset Creation: Thu Jun 21 12:46:03 2012 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 5375-G
Surface Cal Performed: Wed Jun 20 05:38:27 2012
Downhole Cal Performed: Wed Jun 20 05:38:30 2012

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.003	0.639	V	0.000	350.000	mmho/m	550.105	-1.380
Medium	0.006	0.742	V	0.000	400.000	mmho/m	543.466	-3.062
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.639	V	0.000	350.000	mmho/m	549.915	-1.269
Medium	0.006	0.742	V	0.000	550.000	mmho/m	747.501	-4.412

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	350.289	mmho/m	-0.111	350.010	mmho/m	1.000	-0.128
Medium	0.093	400.269	mmho/m	0.146	400.020	mmho/m	0.999	0.053
Shallow	2.475	0.011	V	500.000	2.000	Ohm-m	202.160	-0.251

Compensated Density Calibration Report

Serial-Model: 2388DHT-DHT
Source / Verifier: /
Master Calibration Performed: Thu Jun 21 11:00:02 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

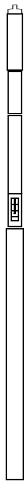
	Size		Reading
Small Ring	8.00	in	5771.32
Large Ring	14.00	in	10165.20

Gamma Ray Calibration Report

Serial Number:	2000	
Tool Model:	P2000	
Performed:	Tue Jun 19 18:23:04 2012	
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:	Tue May 29 17:59:56 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	37.96		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-G (5375) Gearhart	21.47	4.00	345.00
SP	10.60					
CILM	6.89					
RLL3	1.70					

Dataset: gestaub#1oh.db: field/well/run1/pass1
Total Length: 40.49 ft
Total Weight: 676.00 lb
O.D.: 4.00 in