

Job No. 16857  
 Company U.S. GEOLOGICAL SURVEY  
 Well SDSE  
 Field SOLANA BEACH  
 County SAN DIEGO State CA

Location:  
 GPS: N300 500.529' W1170 15.726'  
 Sec. Twp. Rge.  
 Other Services:  
 ELOG  
 SNCV/DL  
 DUAL INDUCTION  
 CALIPER

Permanent Datum	G.L.	Elevation 25'	Elevation
Log Measured From	G.L.	above perm. datum	K.B.
Drilling Measured From	G.L.		D.F.
Date			G.L.
Run Number	ONE		
Depth Driller	1185'		
Depth Logger	1184'		
Bottom Logged Interval	1184'		
Top Log Interval	0'		
Casing Driller	N/A		
Casing Logger	N/A		
Bit Size	8.75" 0-600'	7.875" 600-1185'	
Type Fluid in Hole	BENTONITE		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Meas. Temp	1.6 @ 77F		
Rmf @ Meas. Temp	1.8 @ 77F		
Rmc @ Meas. Temp	N/A		
Source of Rmf / Rmc	MEASURE		
Rm @ BHT	N/A		
Time Circulation Stopped	17:15		
Time Logger on Bottom	19:50		
Max. Recorded Temperature	N/A		
Equipment Number	PS-4		
Location	L.A.		
Recorded By	ABREAU		
Witnessed By	A. KJOS		

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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

Calibration Report

Database File 16857.db  
 Dataset Pathname LL3  
 Dataset Creation Wed Oct 24 20:48:42 2012

Serial Number: 12  
 Tool Model: GROH  
 Performed: Fri Oct 19 11:07:13 2012  
  
 Calibrator Value: 162.0 GAPI  
  
 Background Reading: 30.6  
 Calibrator Reading: 128.2  
  
 Sensitivity: 1.6595 GAPI/

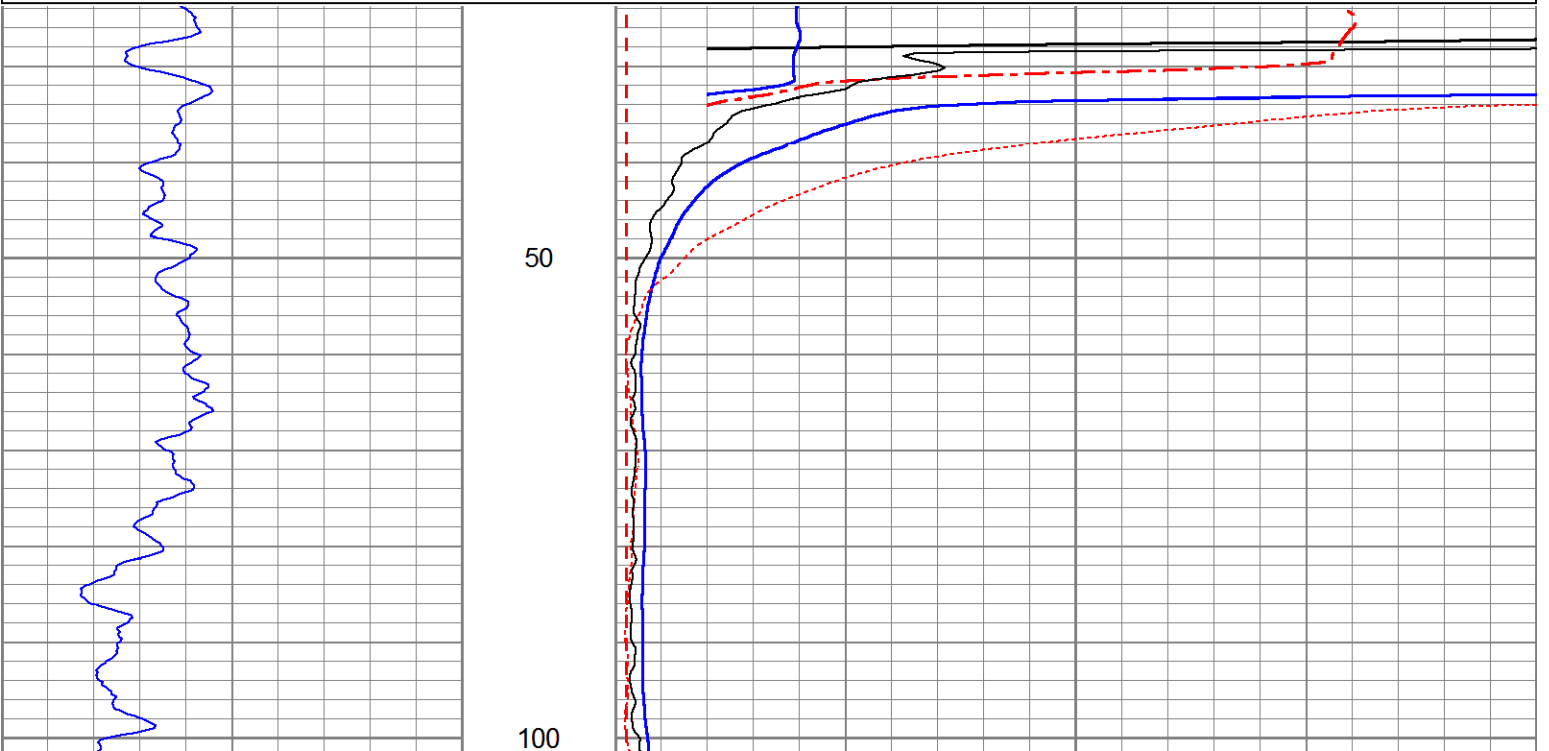
RLL3 (Resistivity Laterolog 3) Calibration Report:

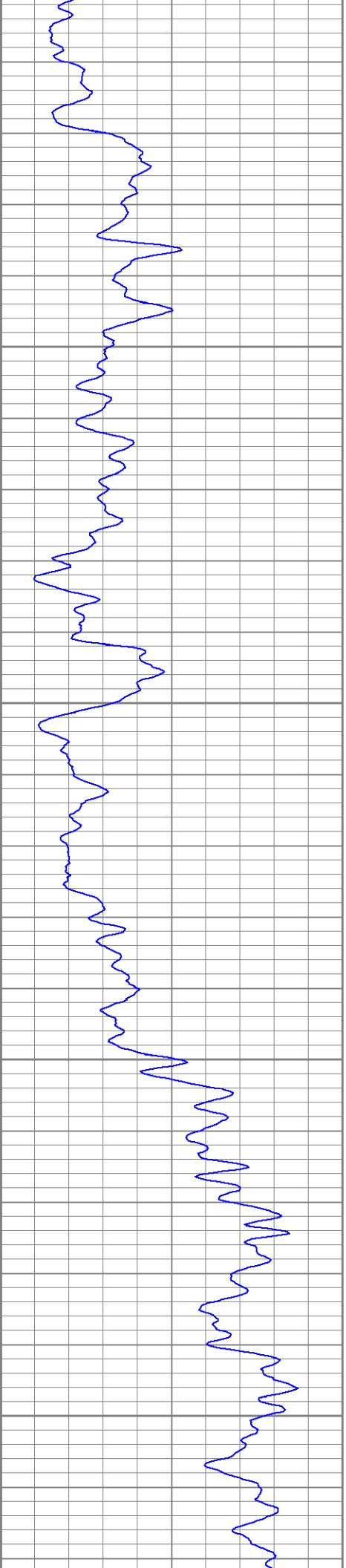
Serial Number: 883  
 Tool Model: M&W  
 Performed: Fri Oct 19 11:07:08 2012

System Reading	Calibration Reference
0.014	2.500 Ohm-m
0.027	5.000
0.254	50.000
1.169	250.000
2.121	500.000

Database File 16857.db  
 Dataset Pathname LL3  
 Presentation Format guard  
 Dataset Creation Wed Oct 24 20:48:42 2012  
 Charted by Depth in Feet scaled 1:240

30	Gamma-Ray (GAPI)	130	0	RSN (Ohm-m)	150
			0	RLN (Ohm-m)	150
			0	RMF (Ohm-m)	150
			0	RLL3 (Ohm-m)	150
			150	RLL3 x 10 (Ohm-m)	1500
			150	RSN x 10 (Ohm-m)	1500
			150	RLN x 10 (Ohm-m)	1500



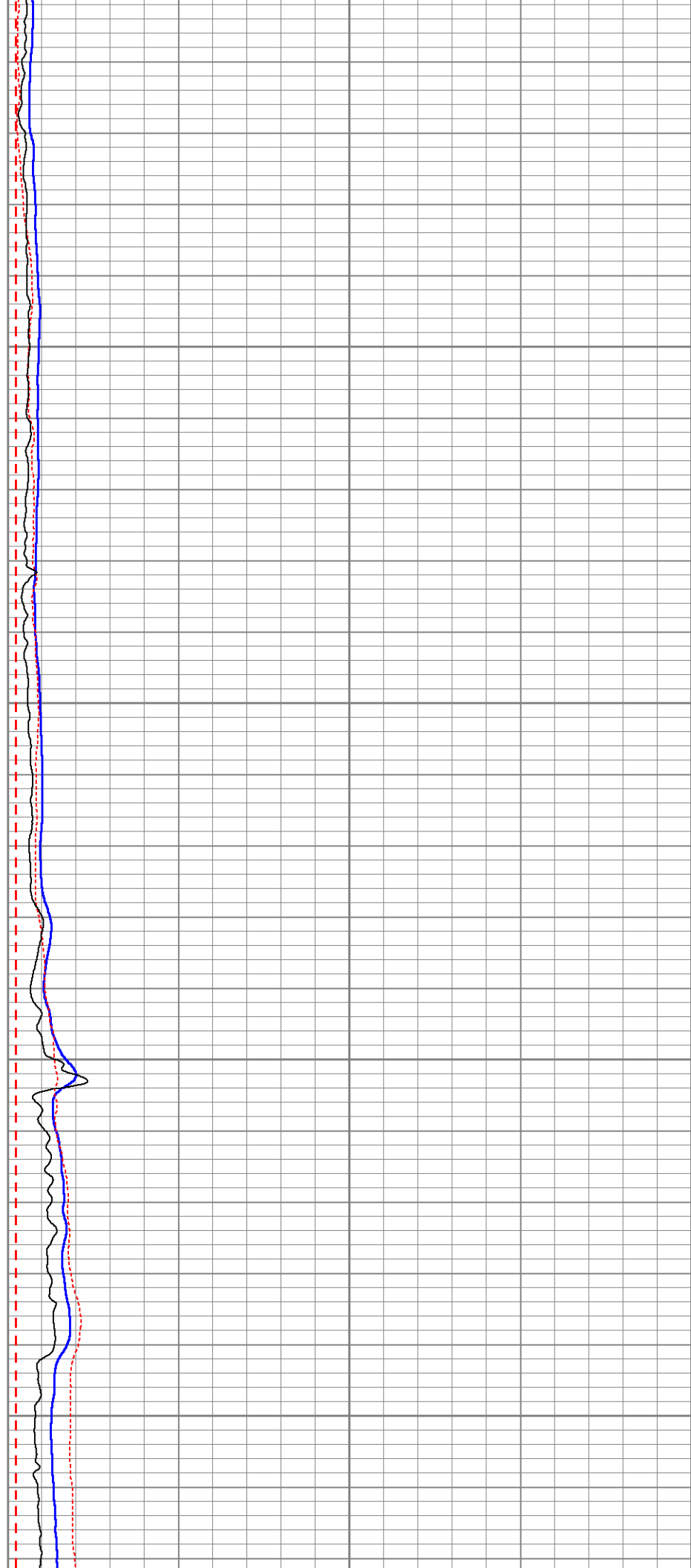


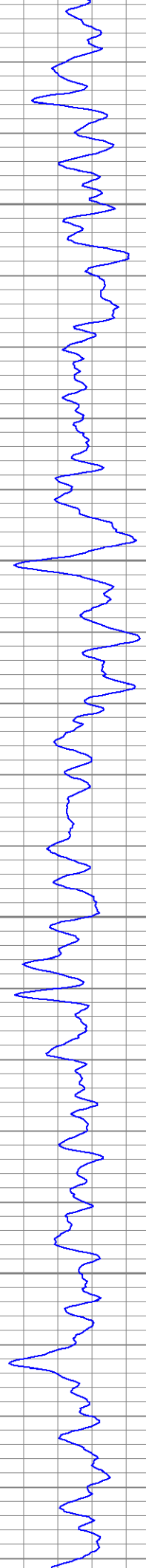
150

200

250

300



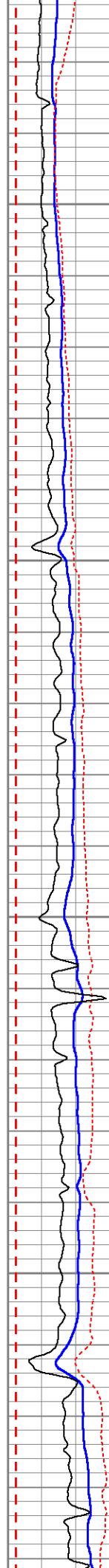


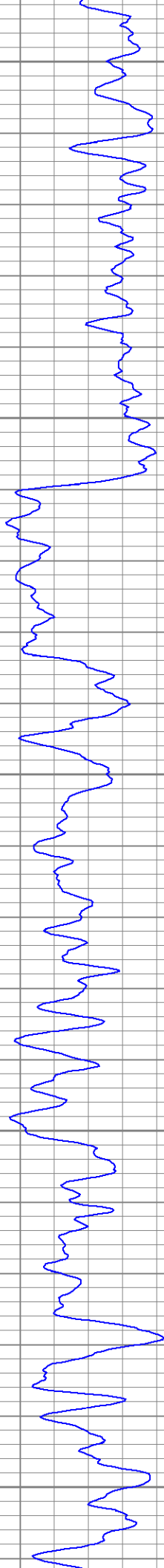
350

400

450

500





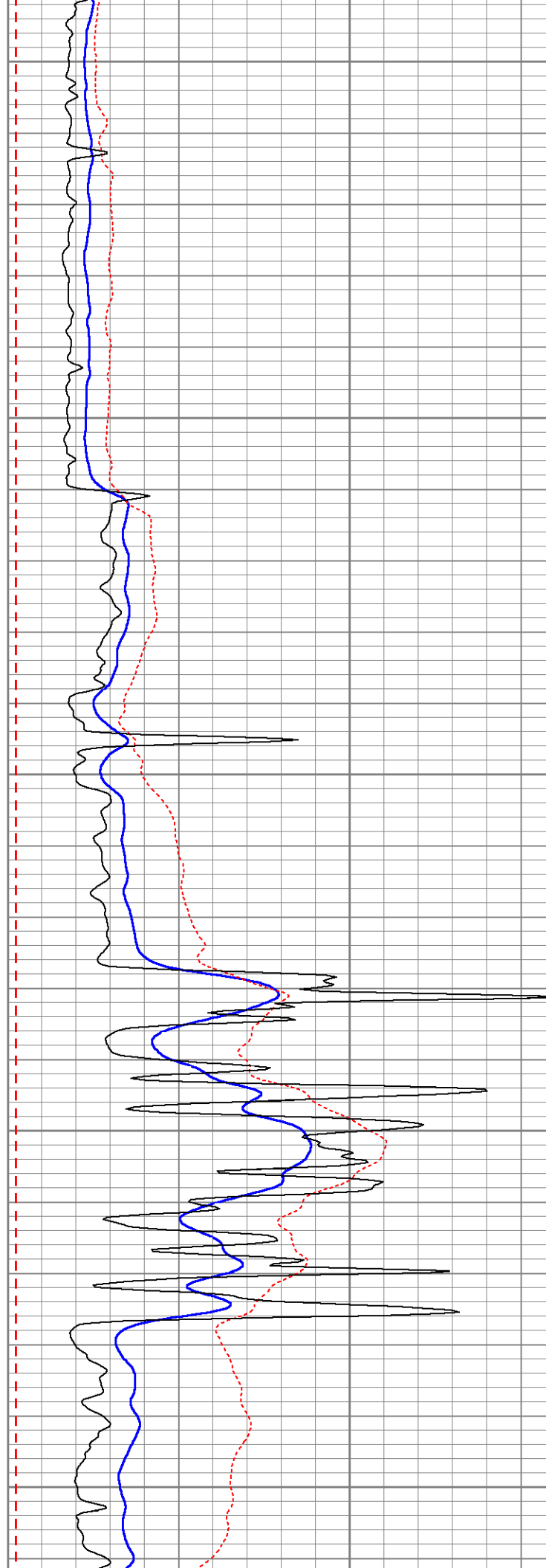
550

600

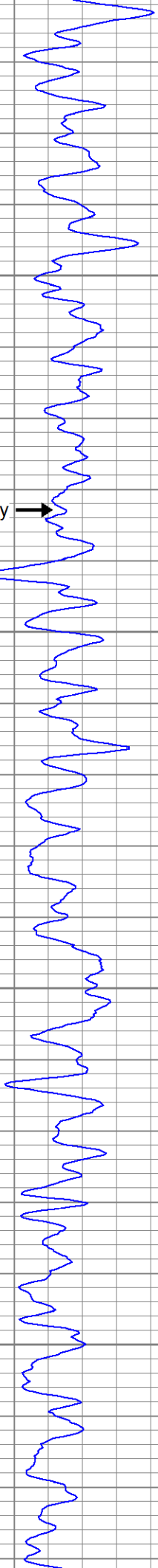
650

700

750



Gamma Ray



800

RMF

850

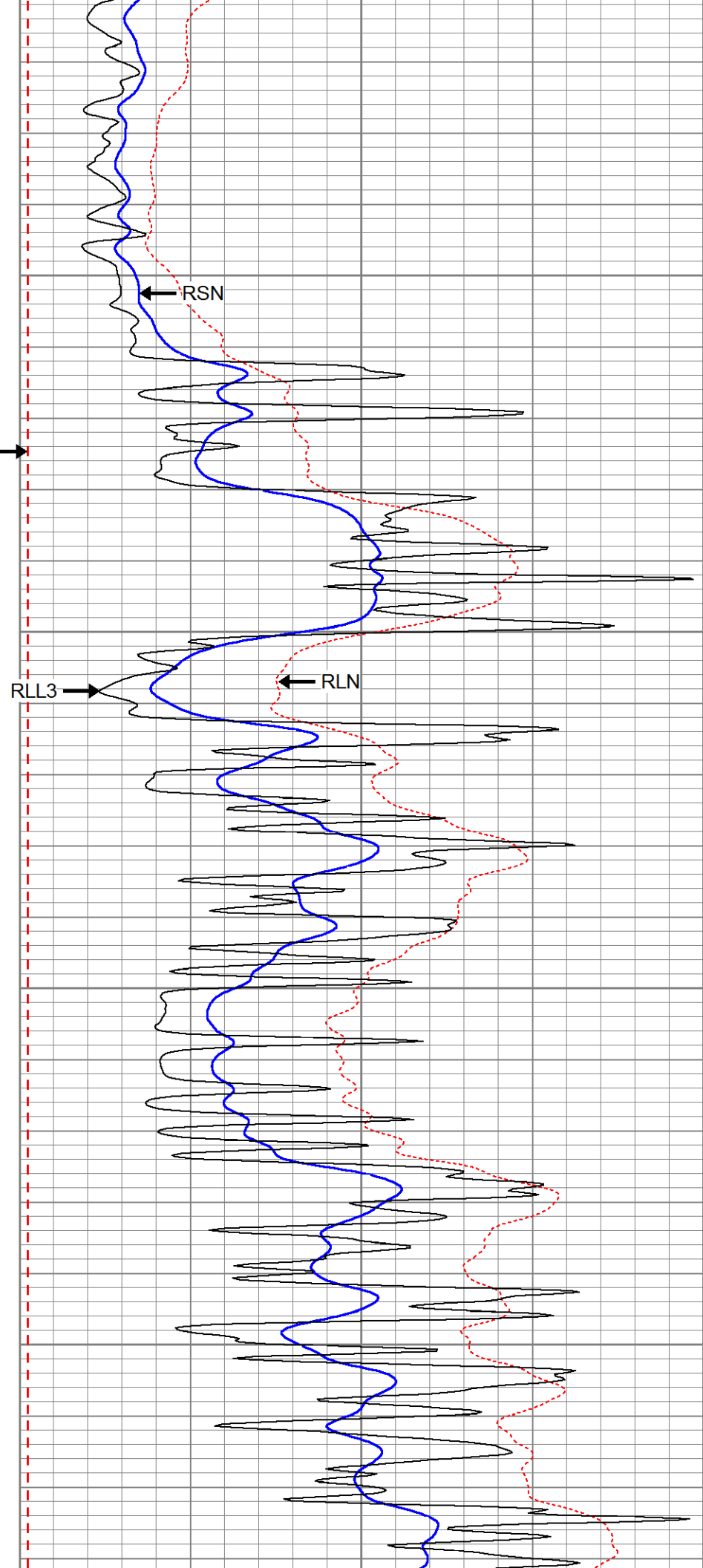
RLL3

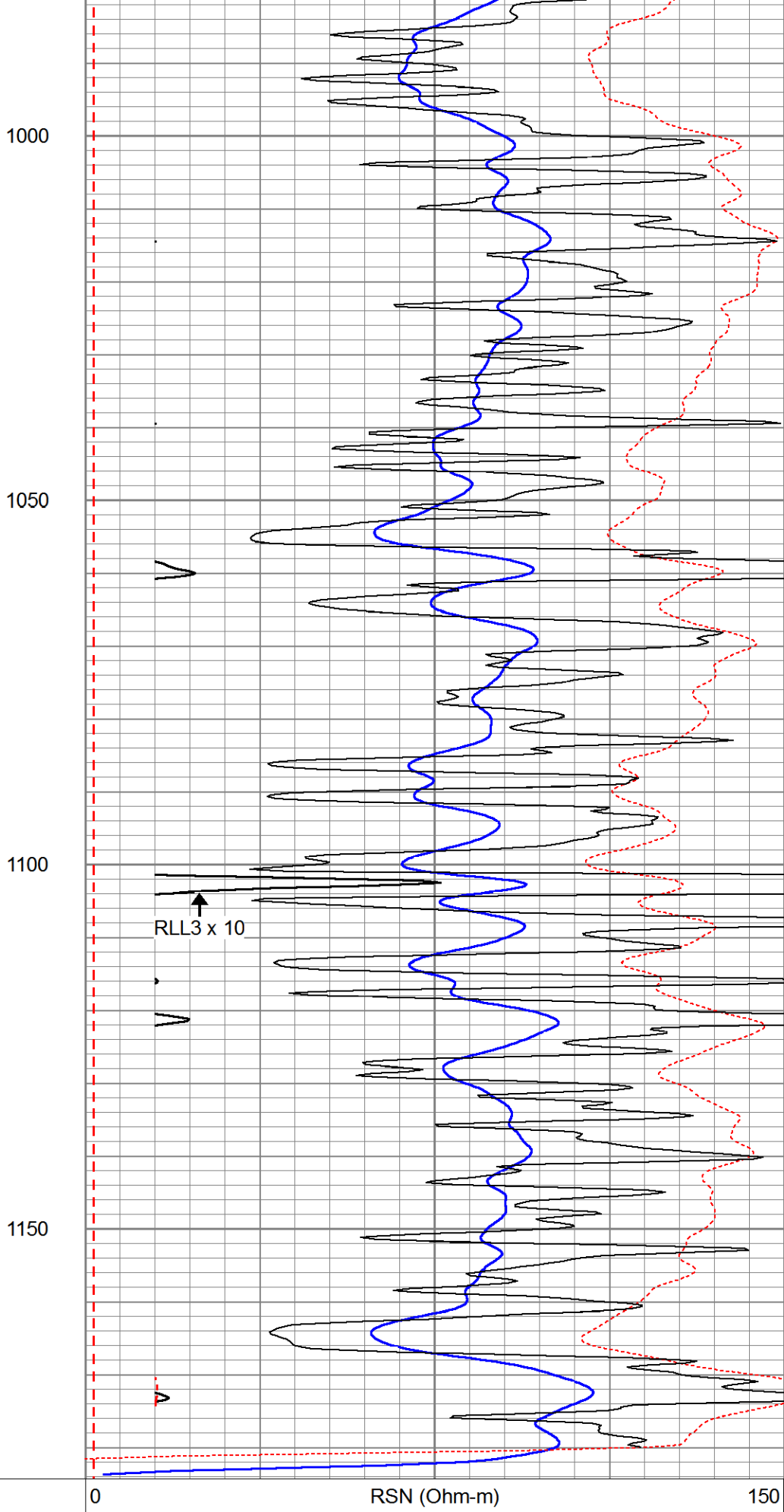
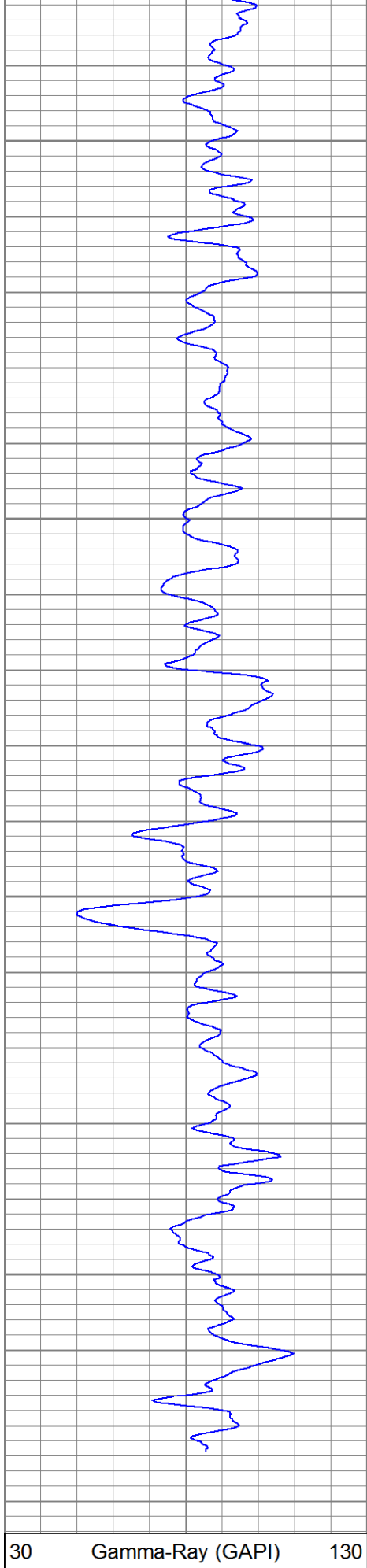
900

950

RSN

RLN





30      Gamma-Ray (GAPI)      130

0      RSN (Ohm-m)      150

0      RLN (Ohm-m)      150

0      RMF (Ohm-m)      150

0      RLL3 (Ohm-m)      150

	RLL3 x 10 (Ohm-m)	1500
150	RLL3 x 10 (Ohm-m)	1500
150	RSN x 10 (Ohm-m)	1500
150	RLN x 10 (Ohm-m)	1500