PACIFIC SURVEYS

ELECTRIC LOG
LATEROLOG 3
GAMMA RAY

Job No.
14771

Company U.S. GEOLOGICAL SURVEY
Well SDSW
Field CHULA VISTA
County SAN DIEGO State CA

Location:

3066 N. 2nd Ave
GPS: N32*39.547' W117*05.125'

Sec. Twp. Rge.

Other Services:

GR/LL3
SONIC/VDL
CALIPER

Permanent Datum	G.L.	Elevation above perm. datum	Elevation
Log Measured From	G.L. 0'		K.B.
Drilling Measured From	G.L.		D.F.
			G.L.

Date	7/20/2009		
Run Number	ONE		
Depth Driller	2000'		
Depth Logger	2003'		
Bottom Logged Interval	2002'		
Top Log Interval	0'		
Casing Driller	N/A		
Casing Logger	N/A		
Bit Size	7 7/8" @ 0-1728'	6 1/4" @ 1728-1821'	6 1/8" @ 1841-2000'
Type Fluid in Hole	BENTONITE		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Meas. Temp	4.1 @ 77F		
Rmf @ Meas. Temp	4.5 @ 77F		
Rmc @ Meas. Temp	N/A		
Source of Rmf / Rmc	MEAS		
Rm @ BHT	N/A		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	5:15 PM		
Max. Recorded Temperature	N/A		
Equipment Number	PS-1		
Location	L.A.		
Recorded By	ABREAU		
Witnessed By	A. BROWN		

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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

ELOG Calibration Report

Serial: D1
Model: DTQ

Shop Calibration Performed: Wed Jan 28 14:40:45 2009
Before Survey Verification Performed: Mon Aug 06 11:54:10 2007
After Survey Verification Performed: Mon Aug 06 11:54:38 2007

Shop Calibration

	Readings Zero	Readings Cal		References Zero	References Cal		Results Gain	Results Offset
Short	10.916	101.981		10.200	102.200	Ohm-m	1.010	-0.828
Long	15.254	104.296		10.200	102.200	Ohm-m	1.033	-14.746
IEE	83.389	24228.514	counts	0.091	26.516	A		
VSN	103.676	2918.243	counts	1.977	55.662	V		
VLN	34.667	0.000	counts	0.661	0.000	V		

Before Survey Verification

	Readings Zero	Readings Cal		References Zero	References Cal		Results Gain	Results Offset
Short	183.906	100.821		9.828	100.799	Ohm-m	-1.095	211.190
Long	422.542	101.924		101.776	101.776	Ohm-m	-0.317	134.130
IEE	59.028	6394.075	counts	0.065	6.998	A		
VSN	121.963	7242.794	counts	2.326	138.147	V		
VLN	70.056	1830.495	counts	1.336	34.914	V		

After Survey Verification

	Readings Zero	Readings Cal		References Zero	References Cal		Results Gain	Results Offset
Short	117.548	100.824		183.906	100.821	Ohm-m	4.968	-400.076
Long	271.705	101.931		101.924	101.924	Ohm-m	1.888	-90.571
IEE	92.849	6387.565	counts	0.102	6.991	A		
VSN	122.623	7235.648	counts	2.339	138.011	V		
VLN	70.858	1828.759	counts	1.352	34.881	V		

After Survey Verification compared to Before Survey Calibration

	Zero Before	Zero After		Cal Before	Cal After	
Short	9.828	183.906	Ohm-m	100.799	100.821	Ohm-m
Long	0.000	422.542	Ohm-m	101.776	101.924	Ohm-m

Gamma Ray Calibration Report

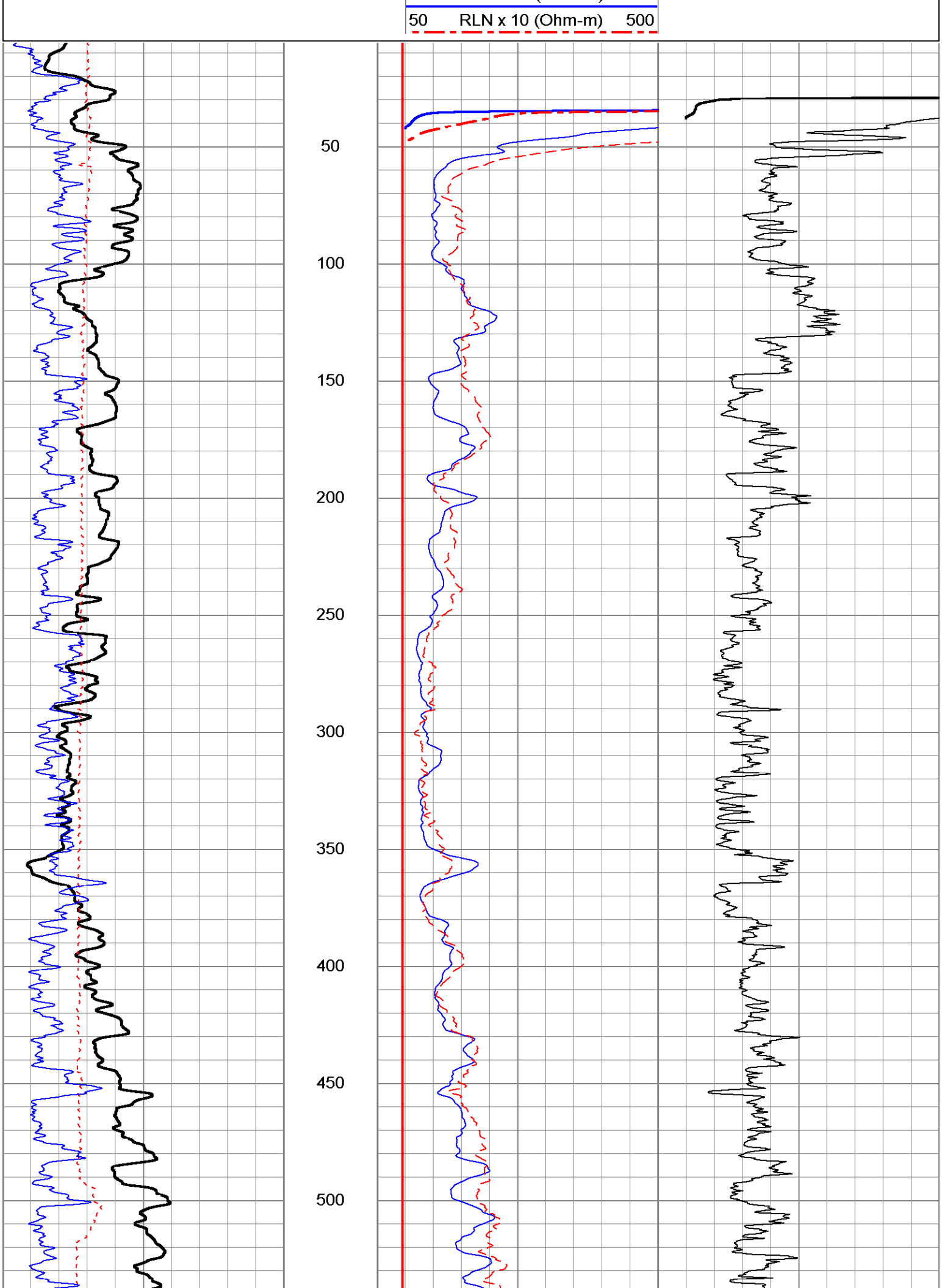
Serial Number:	D1	
Tool Model:	ELOG	
Performed:	Mon Sep 29 13:55:50 2008	
Calibrator Value:	162	GAPI
Background Reading:	151.12	cps
Calibrator Reading:	599.794	cps
Sensitivity:	0.361064	GAPI/cps

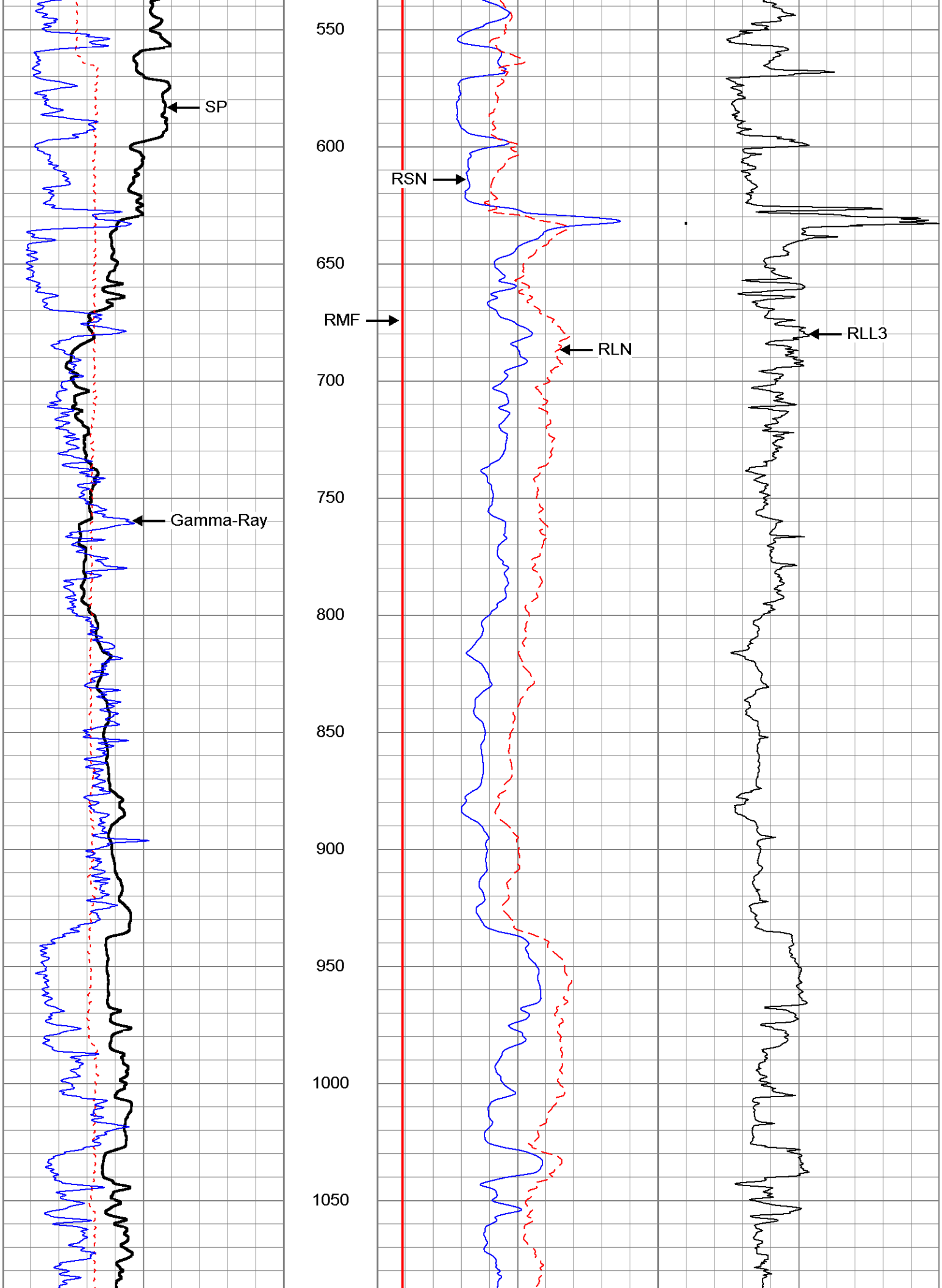
Database File:	14771.db
Dataset Pathname:	elog
Presentation Format:	ELOG
Dataset Creation:	Mon Jul 20 17:17:54 2009 by Log Warrior Version 6.6
Charted by:	Depth in Feet scaled 1:600

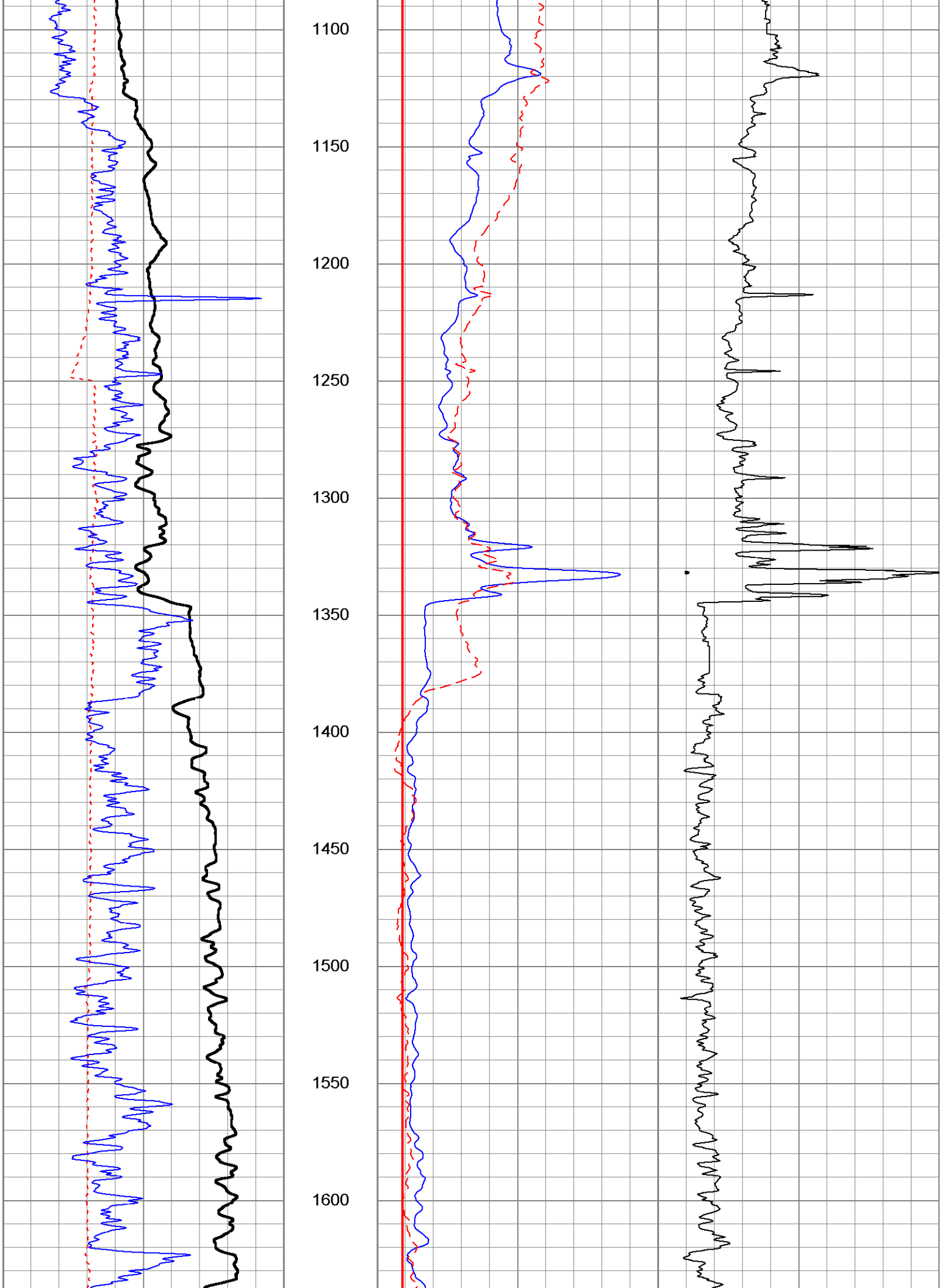
-60	SP (mV)	40
0	Line Speed (ft/min)	100
20	Gamma-Ray (GAPI)	220

0	RSN (Ohm-m)	50
0	RLN (Ohm-m)	50
0	RMF (Ohm-m)	50
50	RSN x 10 (Ohm-m)	500

0	RLL3 (Ohm-m)	50
50	RLL3 x 10 (Ohm-m)	500


50 RLN x 10 (Ohm-m) 500
50
100
150
200
250
300
350
400
450
500


SP
Gamma-Ray
550
600
650
700
750
800
850
900
950
1000
1050
RSN
RMF
RLN
RLL3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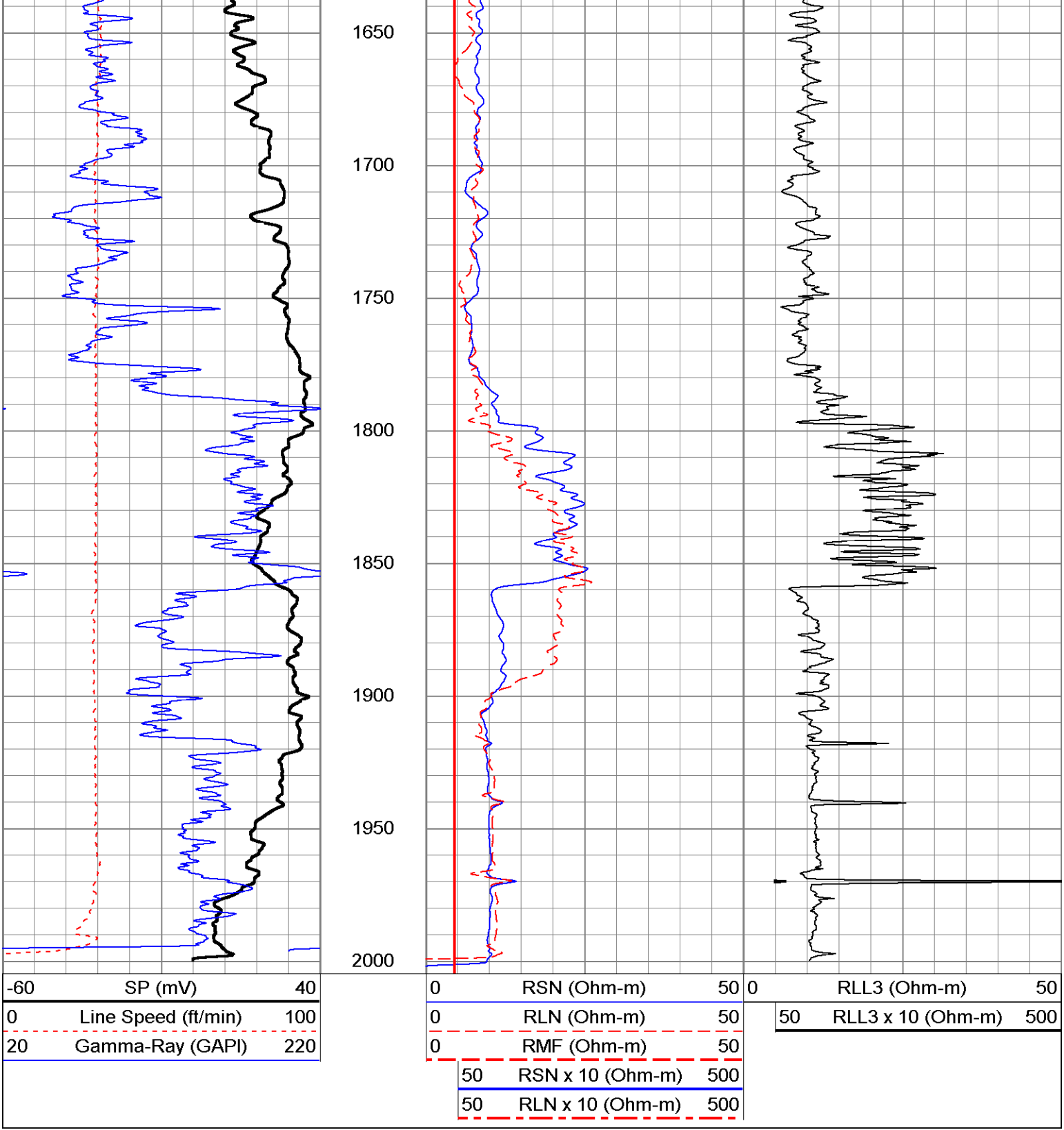
1150
1200
1250
1300
1350
1400
1450
1500
1550
1600


1650
1700
1750
1800
1850
1900
1950
2000
-60 SP (mV) 40
0 Line Speed (ft/min) 100
20 Gamma-Ray (GAPI) 220
0 RSN (Ohm-m) 50
0 RLN (Ohm-m) 50
0 RMF (Ohm-m) 50
50 RSN x 10 (Ohm-m) 500
50 RLN x 10 (Ohm-m) 500
0 RLL3 (Ohm-m) 50
50 RLL3 x 10 (Ohm-m) 500