PACIFIC SURVEYS

ELECTRIC LOG
LATEROLOG 3
GAMMA RAY

Job No.
15951

File No.

Company	US GEOLOGICAL SURVEY
Well	SDCP
Field	SAN DIEGO
County	SAN DIEGO State CA

Location:

CHOLLAS RESERVOIR
GPS: N 32o 44.273' W 117o 04.339'

Sec. Twp. Rge.

Other Services:

GR/LL3
SNC
CALIPER
ATV

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	05-27-2011		
Run Number	ONE		
Depth Driller	1100'		
Depth Logger	1104'		
Bottom Logged Interval	1104'		
Top Log Interval	0'		
Casing Driller	N/A		
Casing Logger	N/A		
Bit Size	7.875"		
Type Fluid in Hole	BENTONITE		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Meas. Temp	5.6 @ 77F		
Rmf @ Meas. Temp	6.3 @ 77F		
Rmc @ Meas. Temp	N/A		
Source of Rmf / Rmc	MEASURE		
Rm @ BHT	N/A		
Time Circulation Stopped	1.5 HRS		
Time Logger on Bottom	2050		
Max. Recorded Temperature	N/A		
Equipment Number	PS-3		
Location	LA		
Recorded By	SCHUMACHER		
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

Calibration Report

Database File: 15951.db
Dataset Pathname: ELOG
Dataset Creation: Fri May 27 20:47:37 2011 by Log Open-Cased 090629

ELOG Calibration Report

Serial:	D4
Model:	DTQ
Shop Calibration Performed:	Mon Apr 12 15:50:29 2010
Before Survey Verification Performed:	Sun Sep 09 13:17:43 2007
After Survey Verification Performed:	Sun Sep 09 13:17:48 2007

Shop Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	9.071	100.689		10.200	102.200	Ohm-m	1.004	1.092
Long	7.302	96.917		10.200	102.200	Ohm-m	1.027	-17.100
IEE	22.700	5501.220	counts	0.025	6.021	A		
VSN	175.940	6234.840	counts	3.356	118.922	V		
VLN	70.000	1565.500	counts	1.335	29.860	V		

Before Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	40.249	101.201		40.505	101.206	Ohm-m	0.996	0.422
Long	142.638	102.842		102.858	102.858	Ohm-m	1.024	-2.408
IEE	212.960	7070.960	counts	0.233	7.738	A		
VSN	96.300	8039.720	counts	1.837	153.348	V		
VLN	85.320	2042.520	counts	1.627	38.959	V		

After Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	40.270	101.200		40.249	101.201	Ohm-m	1.000	-0.035
Long	142.491	102.843		102.842	102.842	Ohm-m	1.004	-0.383
IEE	213.380	7077.580	counts	0.234	7.746	A		
VSN	96.540	8047.160	counts	1.841	153.490	V		
VLN	85.400	2044.440	counts	1.629	38.995	V		

After Survey Verification compared to Before Survey Calibration

	Zero			Cal		
	Before	After		Before	After	
Short	40.505	40.249	Ohm-m	101.206	101.201	Ohm-m
Long	143.592	142.638	Ohm-m	102.858	102.842	Ohm-m

Gamma Ray Calibration Report

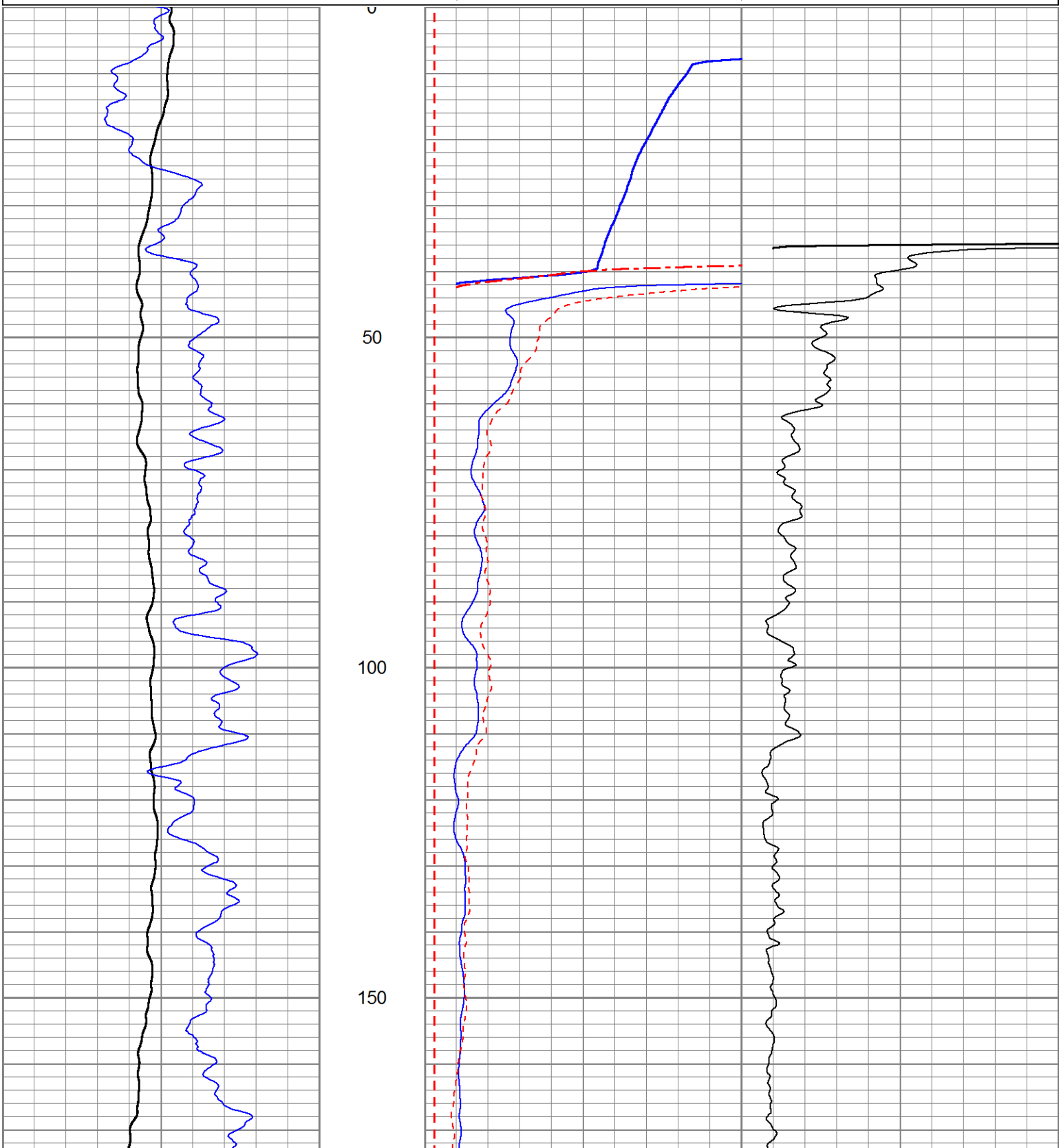
Serial Number:	D4	
Tool Model:	ELOG	
Performed:	Tue Jul 15 15:58:21 2008	
Calibrator Value:	162.0	GAPI
Background Reading:	198.6	cps
Calibrator Reading:	742.0	cps
Sensitivity:	0.2982	GAPI/cps

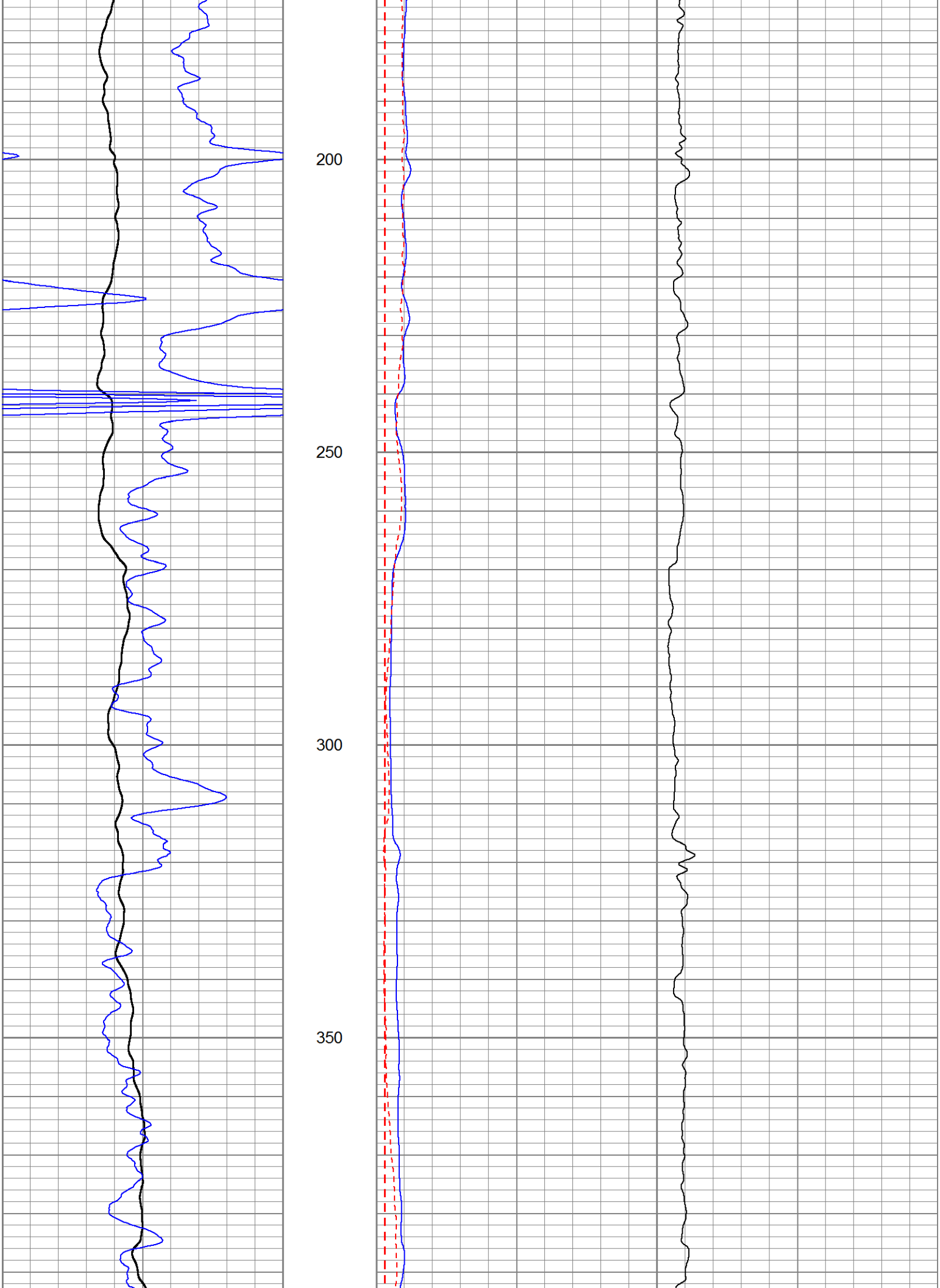
Database File: 15951.db
Dataset Pathname: ELOG
Presentation Format: elog
Dataset Creation: Fri May 27 20:47:37 2011 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

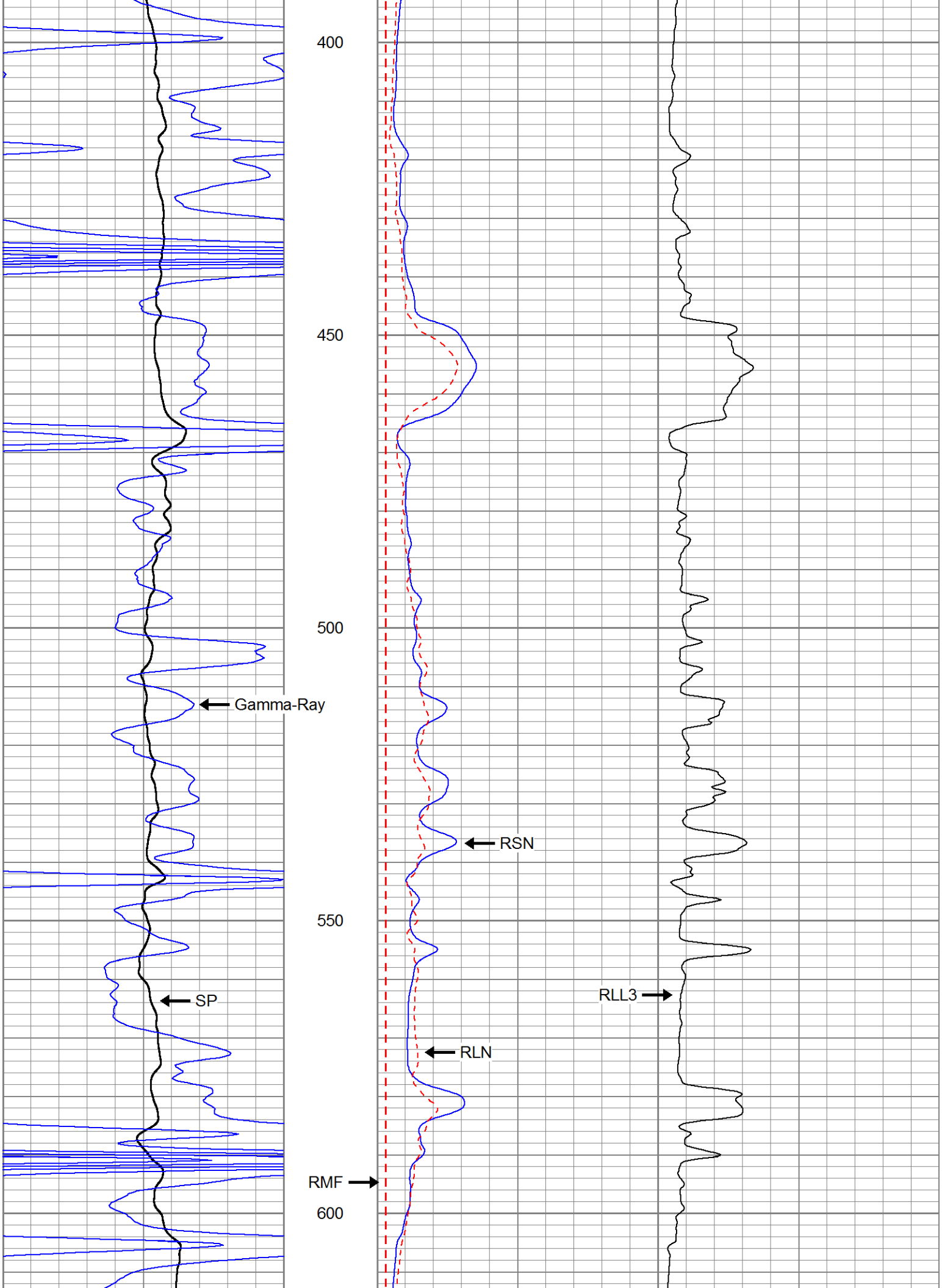
-110	SP (mV)	10
0	Gamma-Ray (GAPI)	200

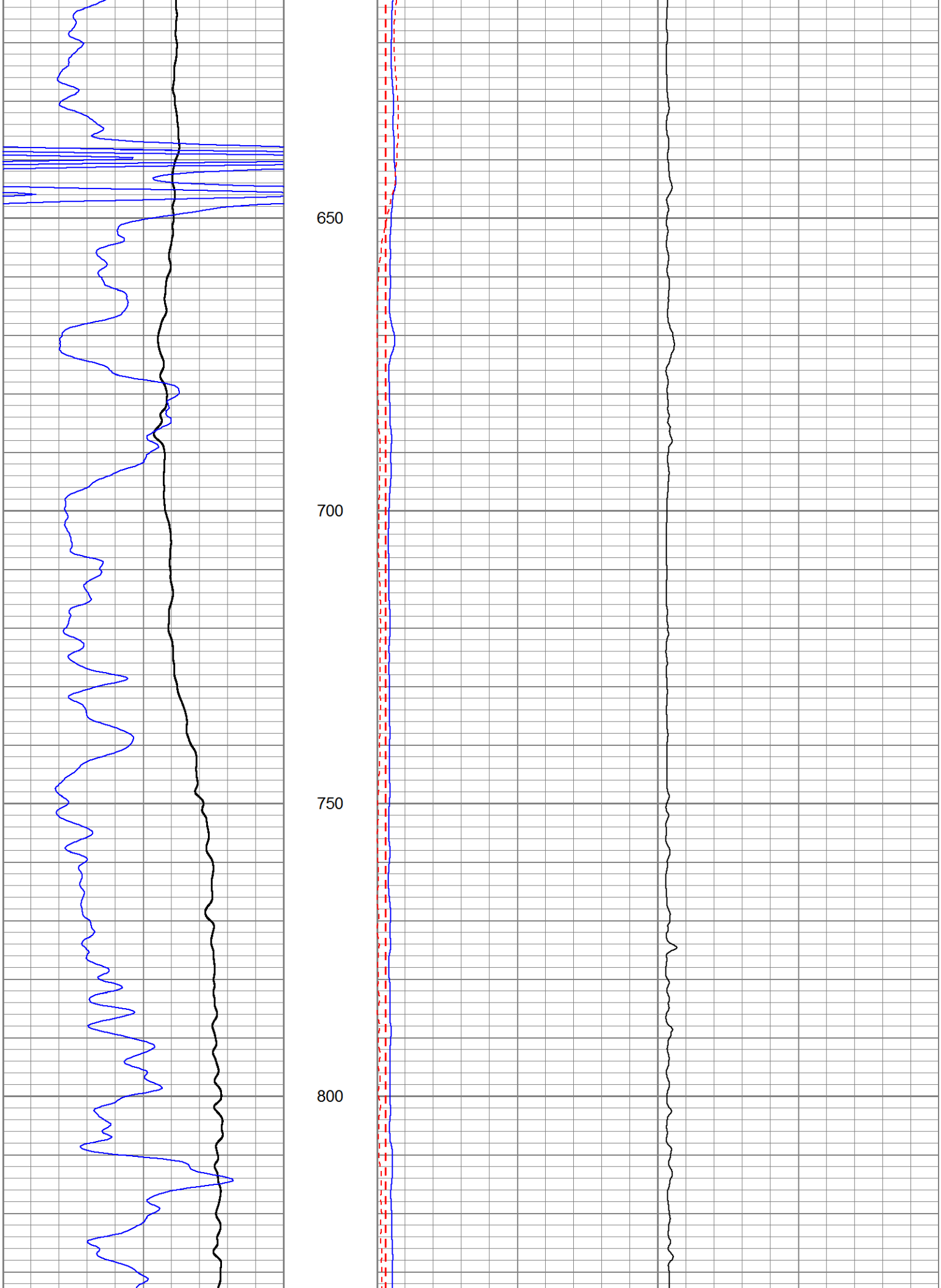
0	RSN (Ohm-m)	200
0	RLN (Ohm-m)	200
0	RMF (Ohm-m)	200
200	RSN x 10 (Ohm-m)	2000
200	RLN x 10 (Ohm-m)	2000

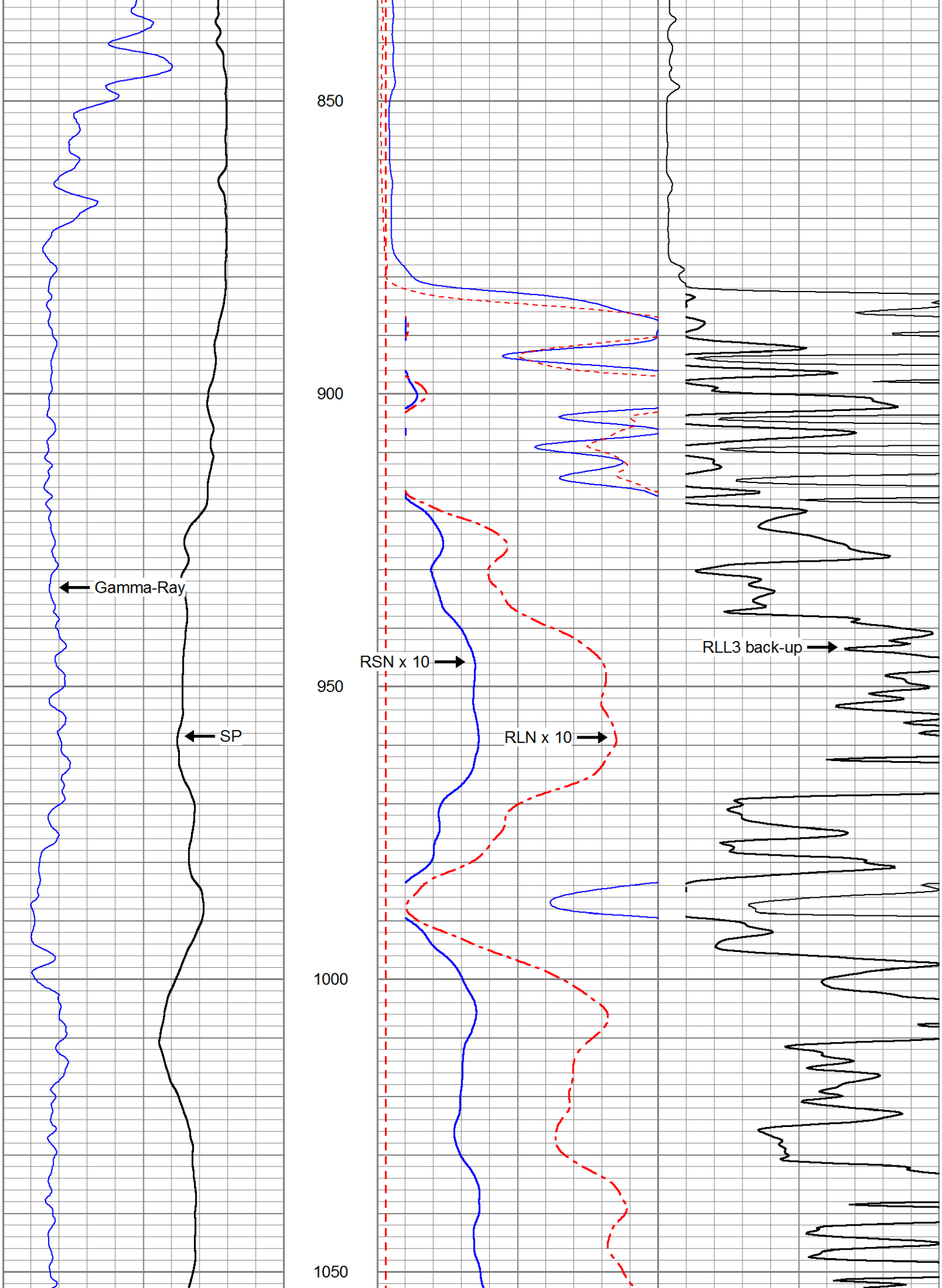
0	RLL3 (Ohm-m)	200
200	RLL3 back-up (Ohm-m)	2000

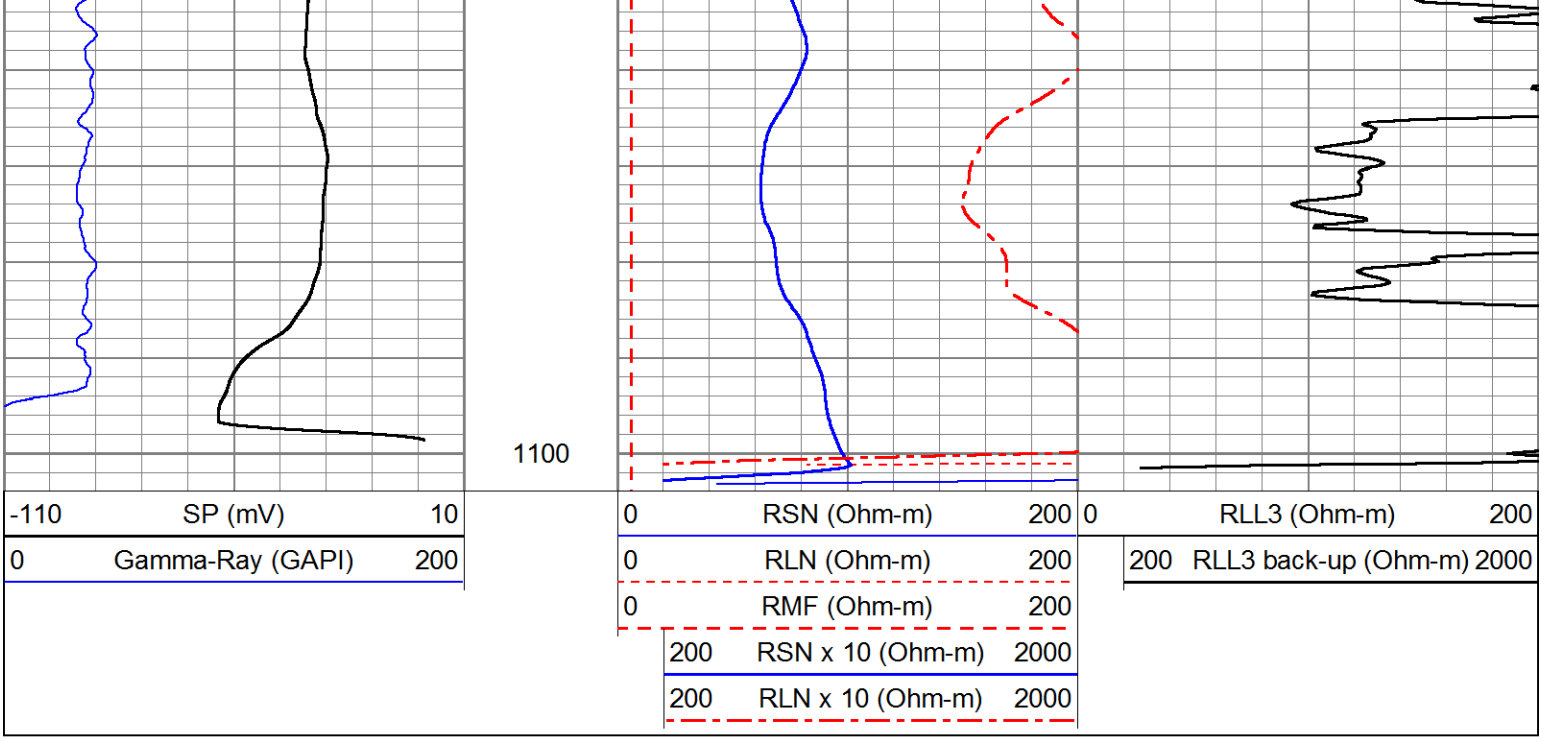



200
250
300
350


400
450
500
550
600
Gamma-Ray
SP
RSN
RLN
RMF
RLL3


650
700
750
800


850
900
950
1000
1050
Gamma-Ray
SP
RSN x 10
RLN x 10
RLL3 back-up


1100
-110 SP (mV) 10
0 Gamma-Ray (GAPI) 200
0 RSN (Ohm-m) 200
0 RLN (Ohm-m) 200
0 RMF (Ohm-m) 200
200 RSN x 10 (Ohm-m) 2000
200 RLN x 10 (Ohm-m) 2000
0 RLL3 (Ohm-m) 200
200 RLL3 back-up (Ohm-m) 2000