



COMPOSITE LOG

Company	SIENA NATURAL RESOURCES / KANSAS		
Well	HENDERSON BOLANDER #33-1		
Field			
County	COWLEY	State	KANSAS
Location:	API # : 15-035-24689-0000 SE NW NW SE 2250' FSL & 2040' FEL		
Permanent Datum	GL	Elevation	1253'
Log Measured From	KB		
Drilling Measured From	KB		
SEC	33	TWP	32S
RGE	5E		
Other Services CDL, SWN, DIL, MEL, SONIC			
Elevation			
K.B. 1264'			
D.F. 1263'			
G.L. 1253'			
Date	12-20-2018		
Run Number	ONE		
Depth Driller	3500'		
Depth Logger	3502'		
Bottom Logged Interval	3500'		
Top Log Interval	1350'		
Casing Driller	8 5/8" @ 220'		
Casing Logger	8 5/8" @ 220'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL		
Density / Viscosity	9.4 / 55		
pH / Fluid Loss	10.0 / 11.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	2.40 @ 63		
Rmt @ Meas. Temp	2.88 @ 63		
Rmc @ Meas. Temp	1.92 @ 63		
Source of Rmf / Rmc	CAL		
Rm @ BHT	1.38 @ 109		
Time Circulation Stopped	1:45 AM		
Time Logger on Bottom	4:15 AM		
Maximum Recorded Temperature	109		
Equipment Number	OW2		
Location	HOMINY, OK		
Recorded By	W. LOWERY		
Witnessed By	MR. MILLER		

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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

OW2-9173
MATRIX LIMESTONE 2.71 G/CC
ABHV COMPUTED WITH 5 1/2" CASING

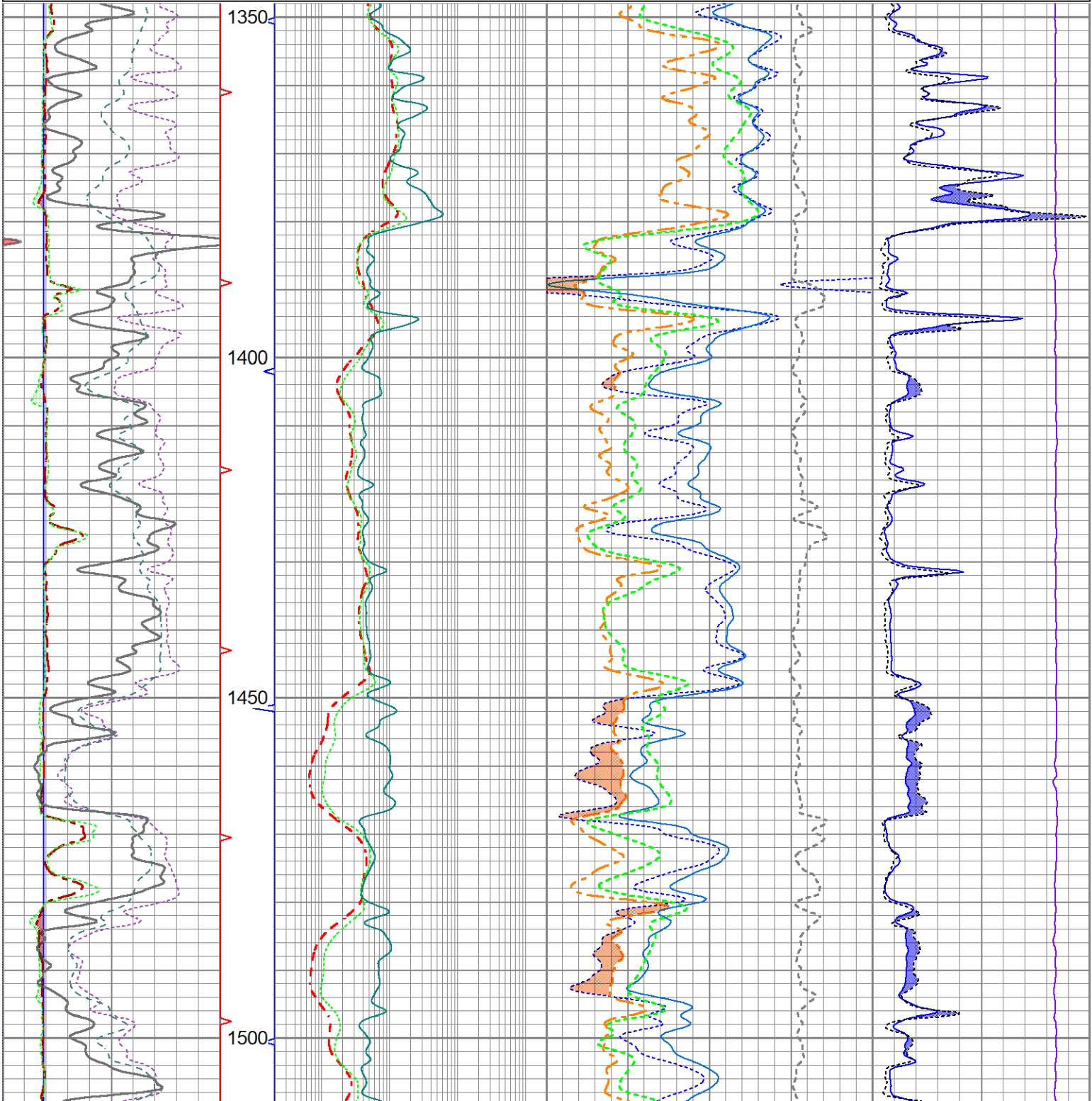
CREW : C. SHAMBLES, T. LUNN

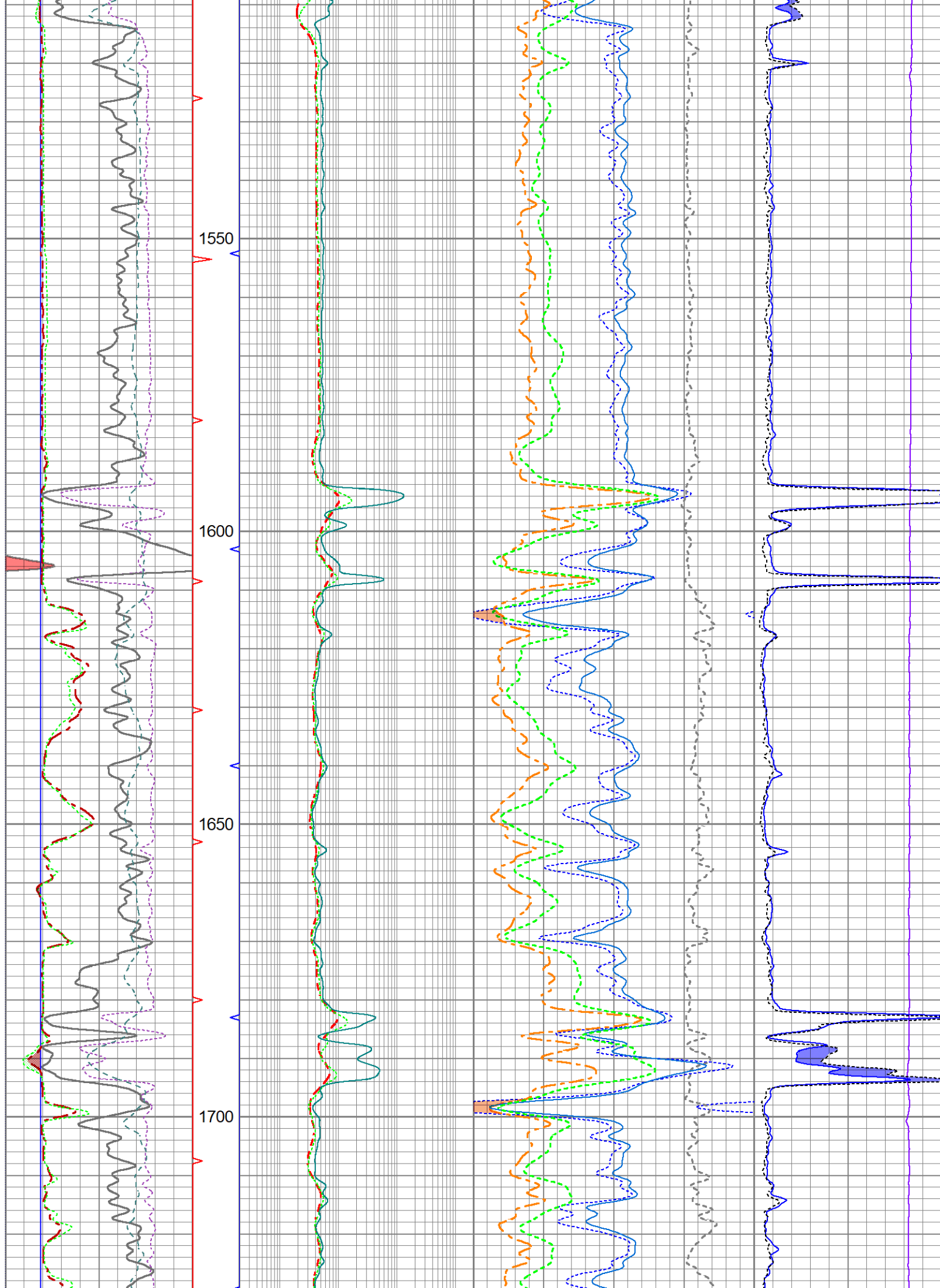


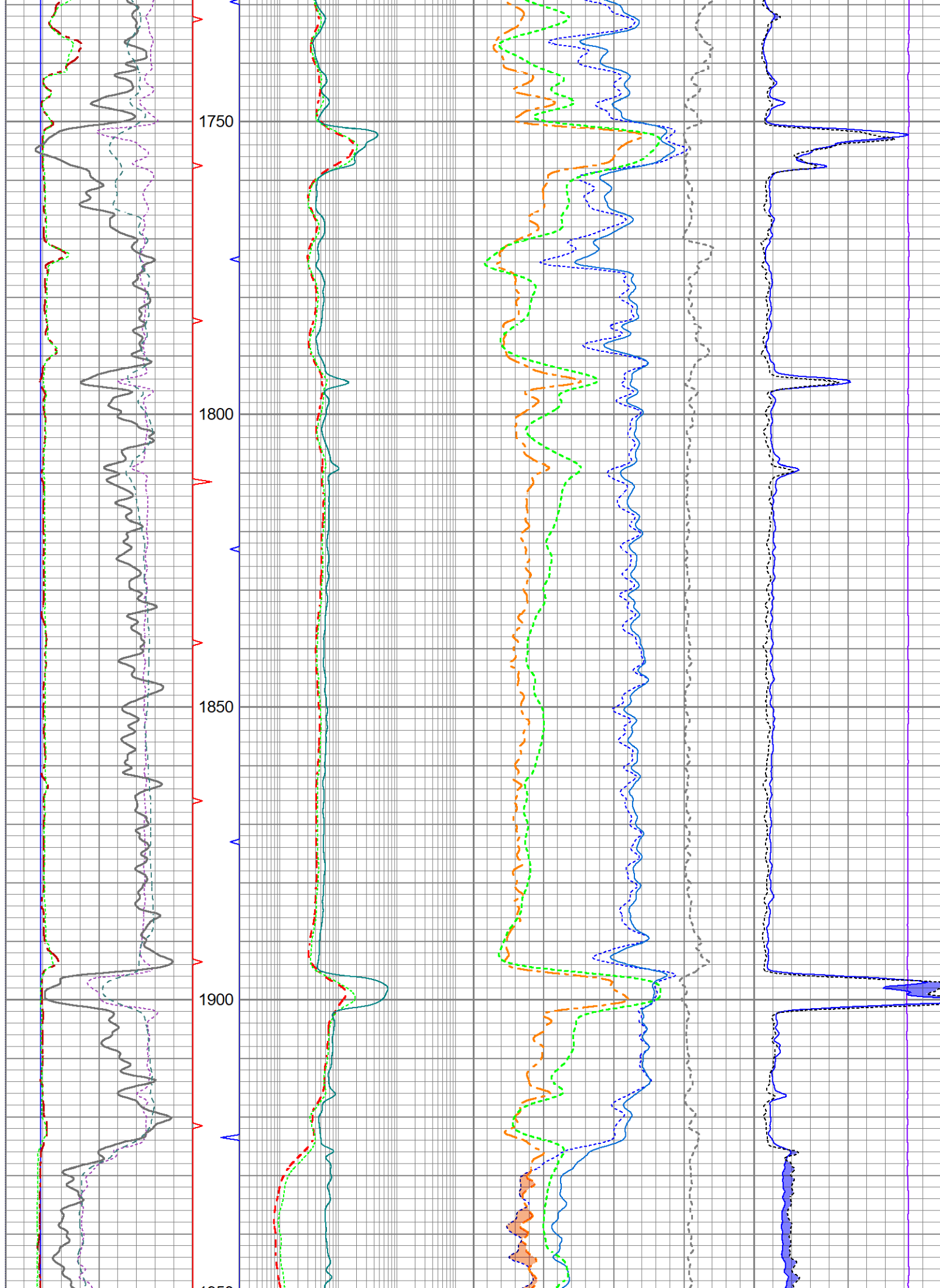
Quick Look Presentation

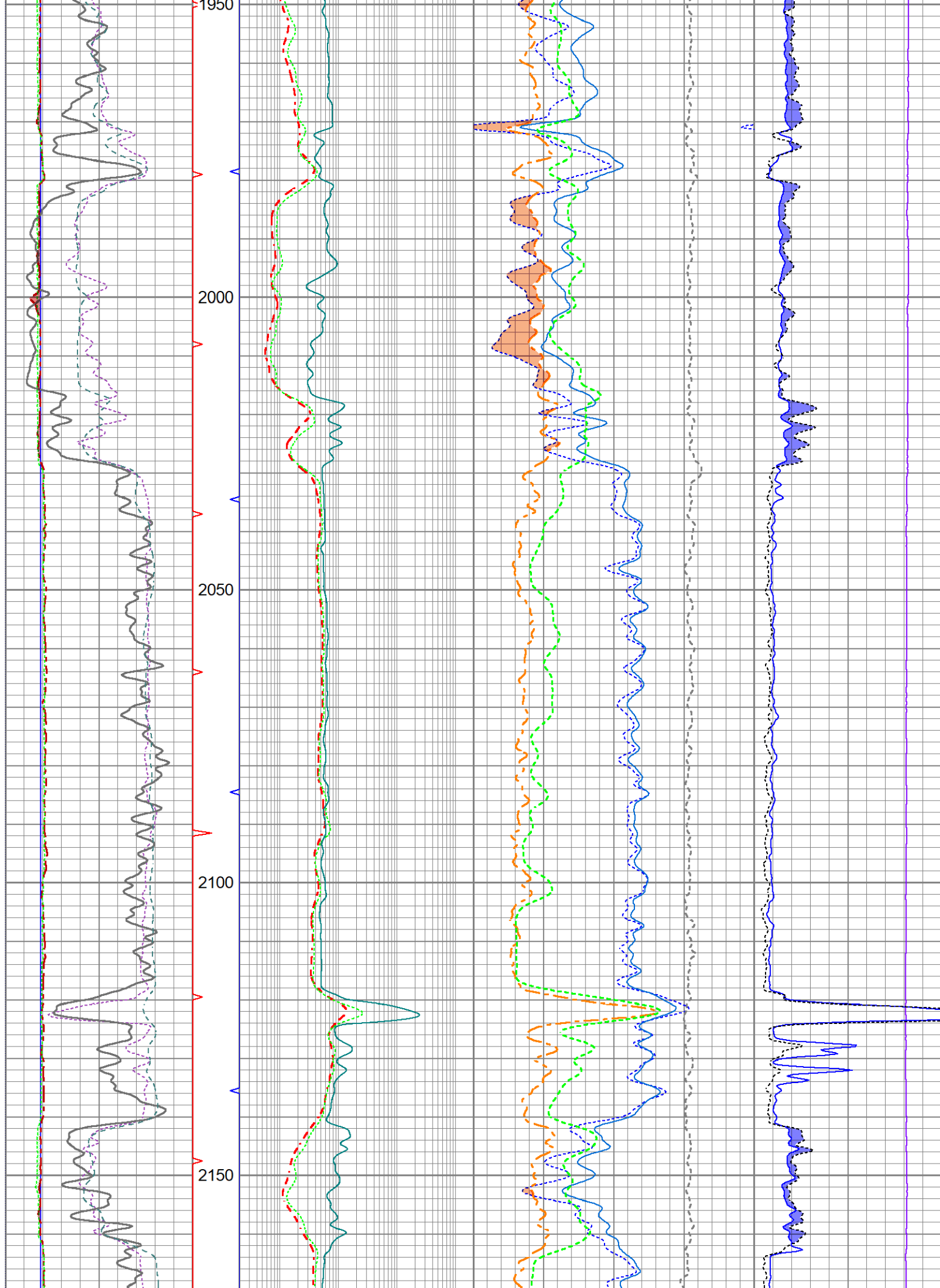
Database File	ow2-9173 siena natural resources.db
Dataset Pathname	CDLN/merge2
Presentation Format	lawcocomp
Dataset Creation	Thu Dec 20 07:42:00 2018
Charted by	Depth in Feet scaled 1:240

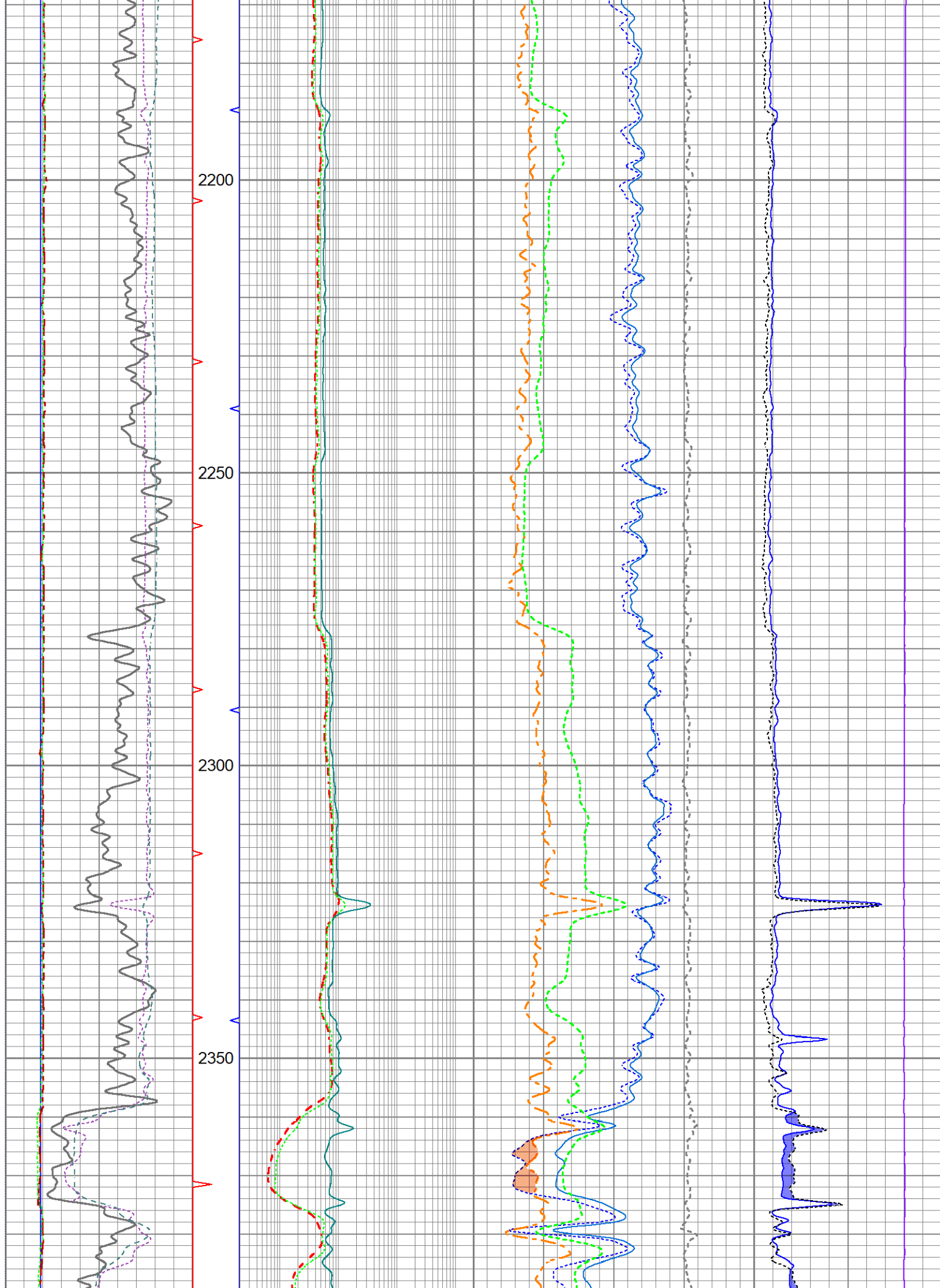
6	Bit Size (in)	16	TBHV	0.2	Resistivity (Ohm-m) 2000	30	Density Porosity (pu)	-10	500	Line Tension (lb)	0
	Neutron Caliper			0.2	Medium (Ohm-m) 2000	30	Neutron Porosity (pu)	-10		Micro Inverse	
6	(in)	16	ABHV	0.2	Lateral Log (Ohm-m) 2000	2	Bulk Density (g/cc)	3	0	(Ohm-m)	40
6	Micro Caliper (in)	16				45	Sonic Porosity (pu)	-15		Micro Normal	
-160	Rxo\Rt	40					Correction		0	(Ohm-m)	40
	Gamma Ray						-0.5 (g/cc)	0.5			
0	(GAPI)	150									
0	SP (mV)	200									

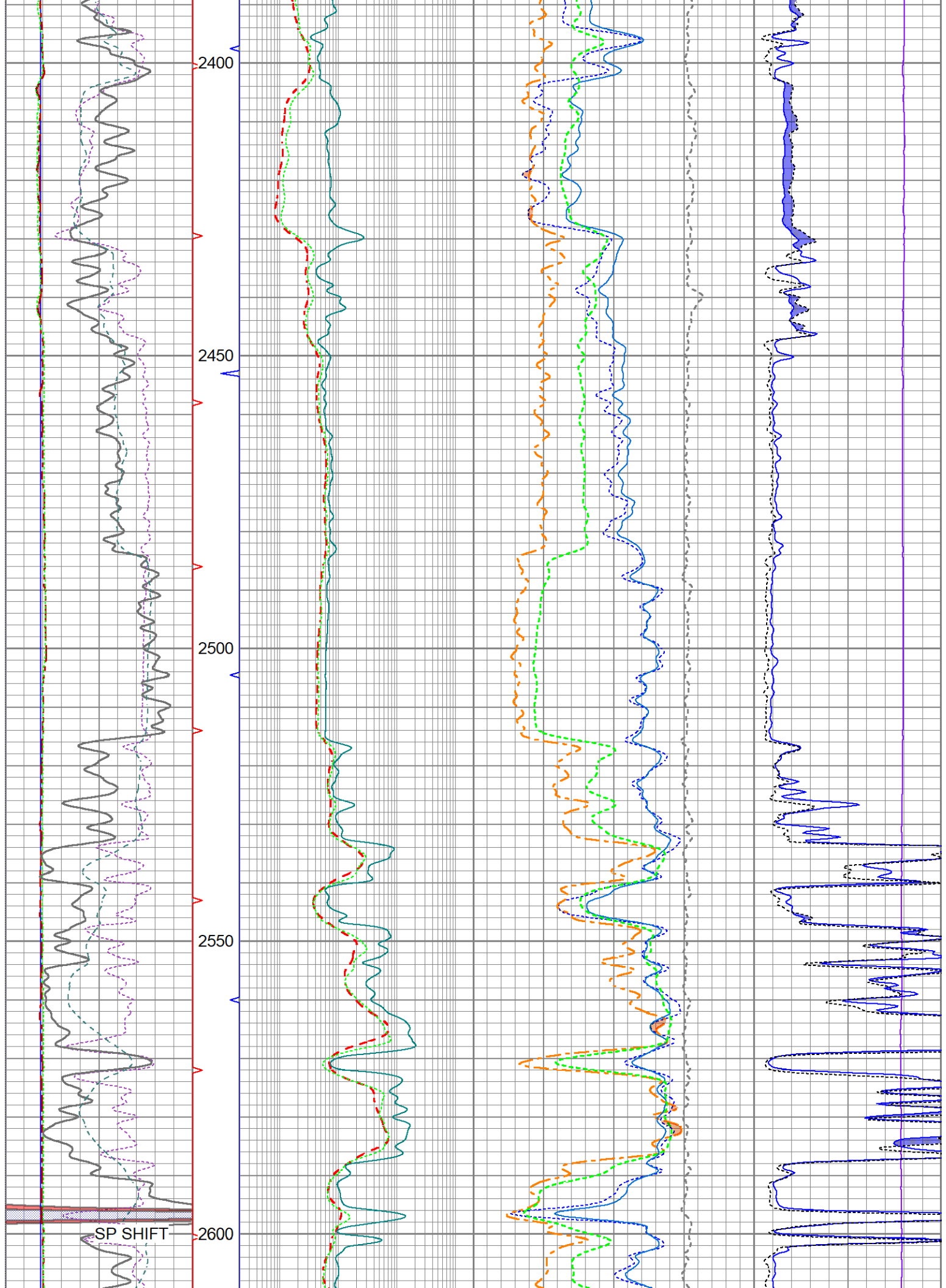


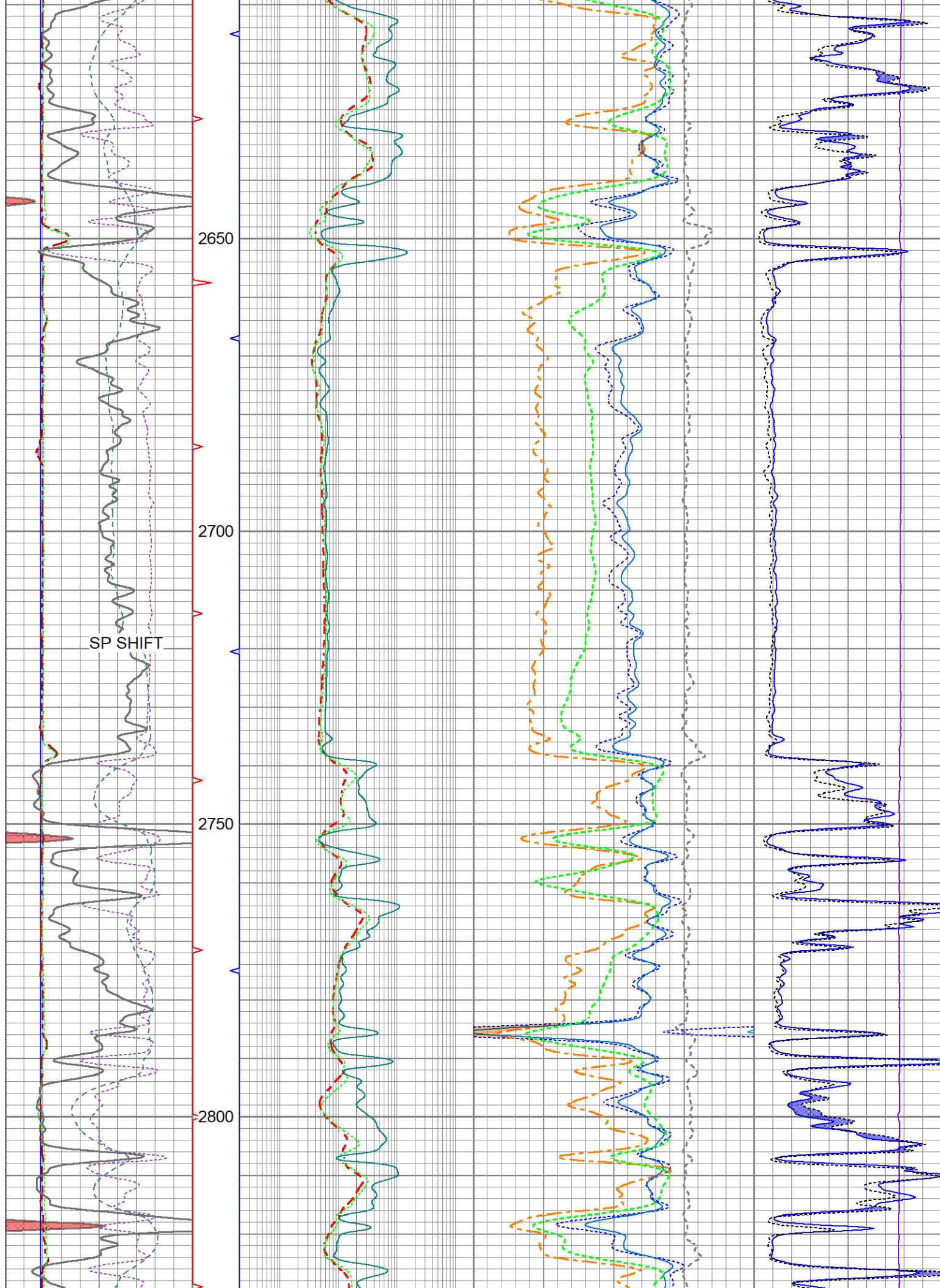


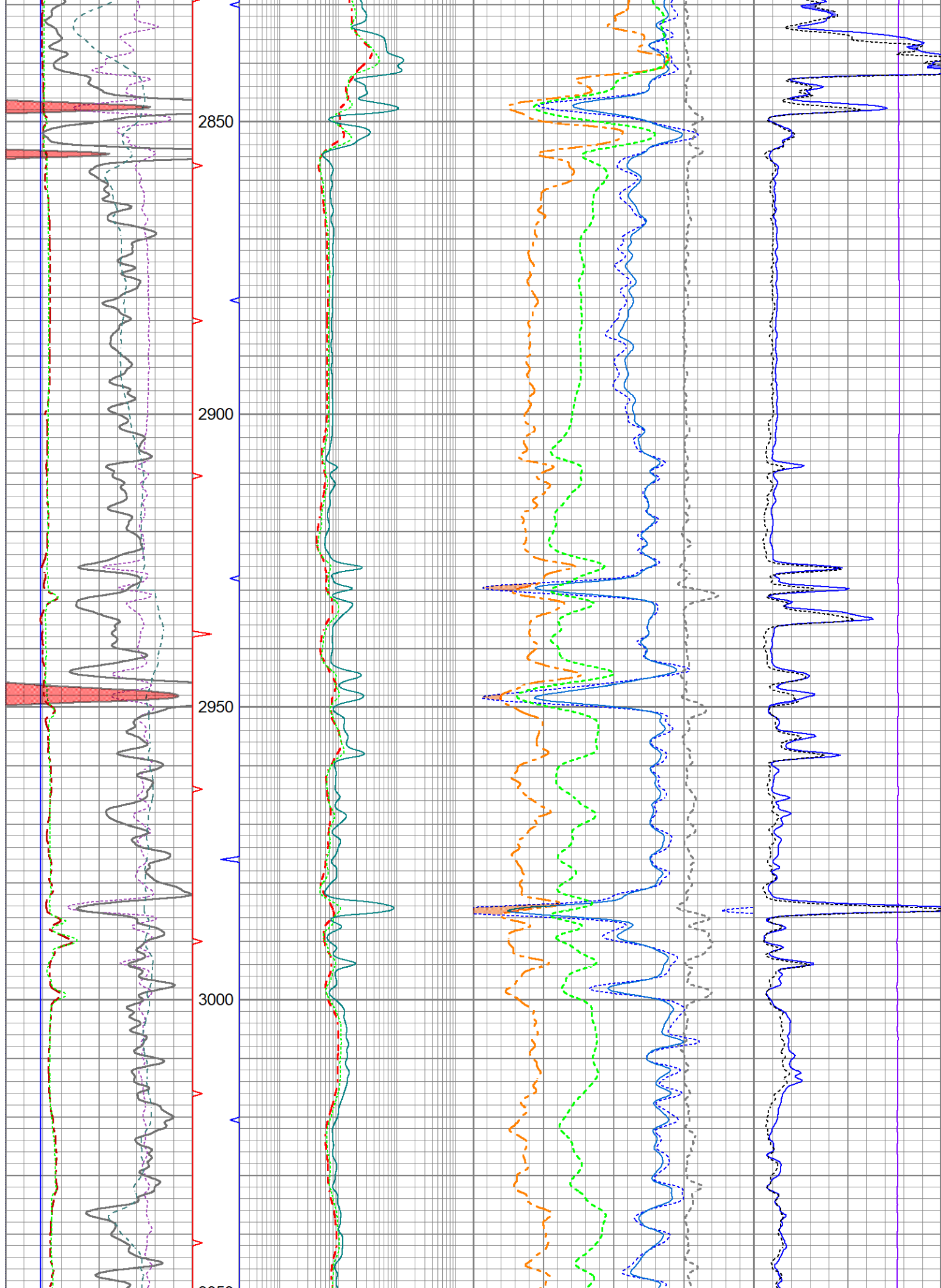


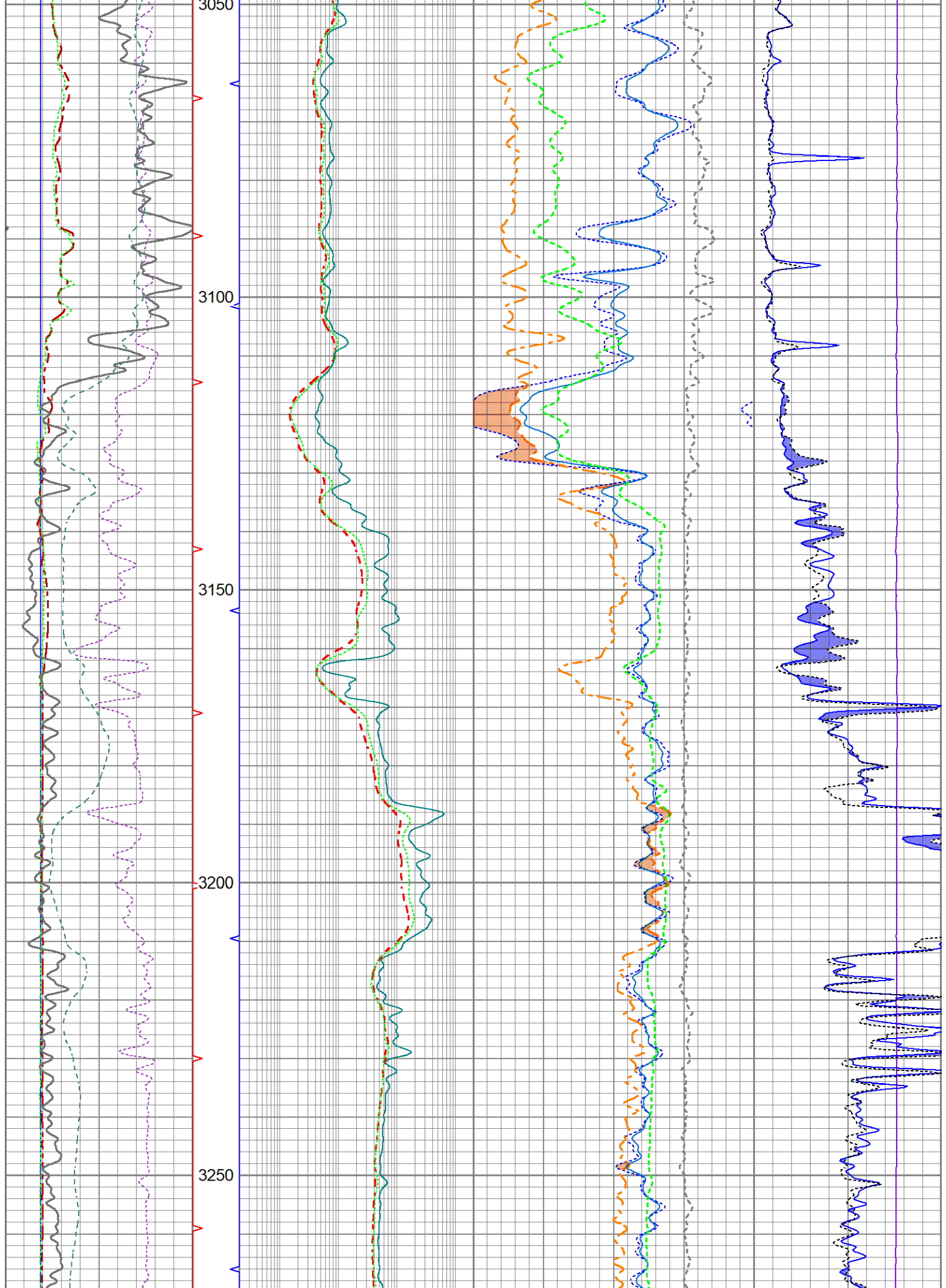


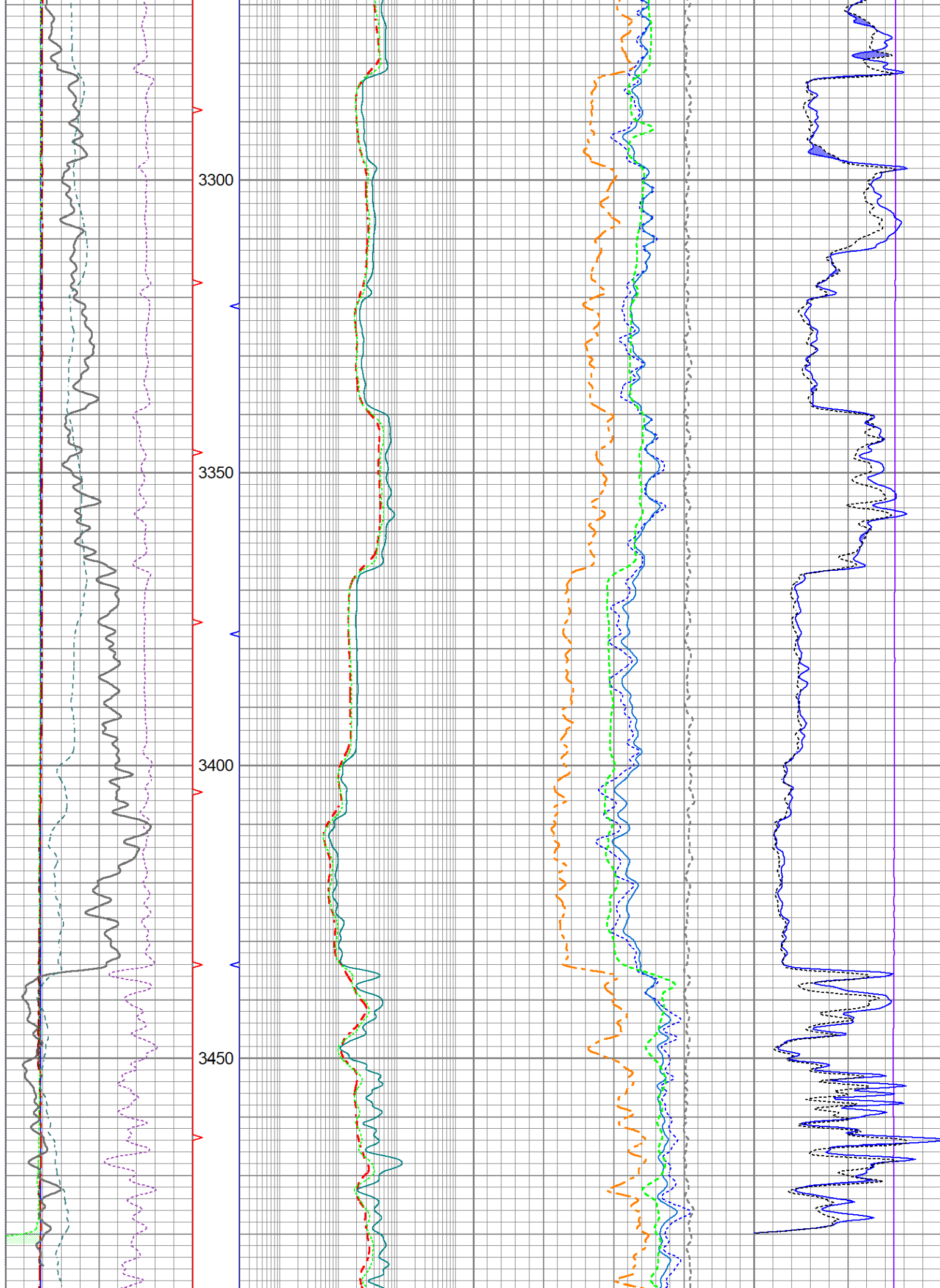


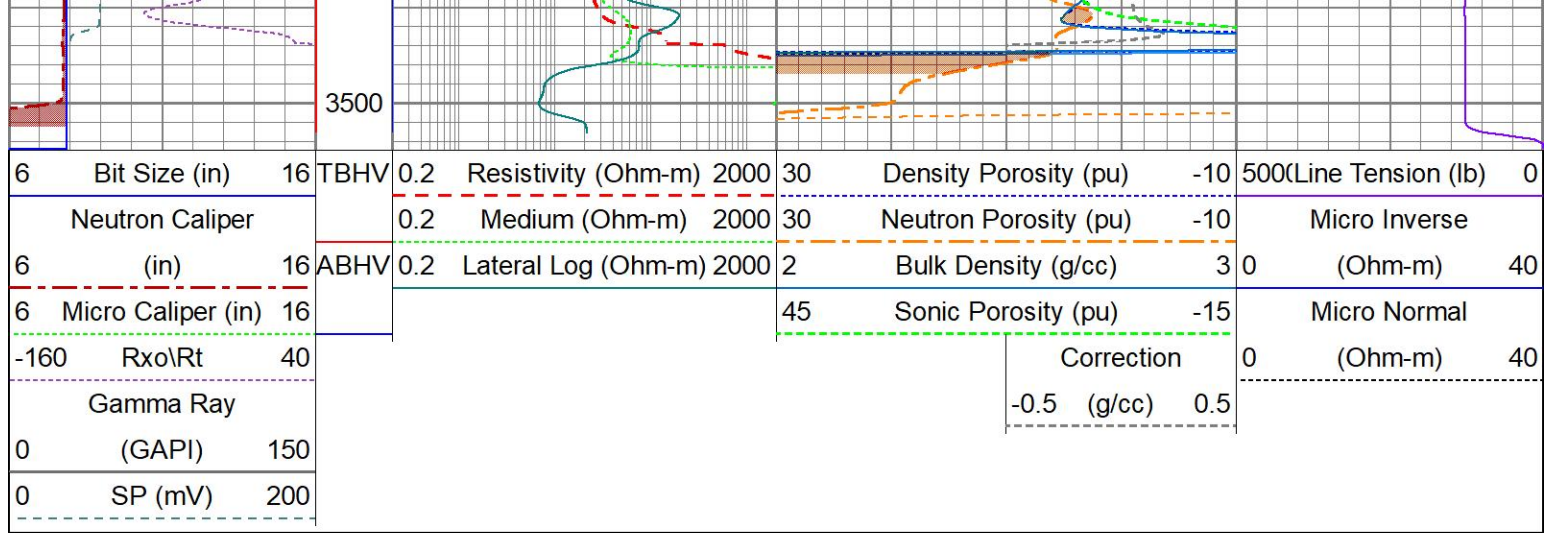












Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GRTemp	30.82		GR-PTS_OH (FW1306-49)	3.69	3.38	40.00
GR	29.91		Open Hole Digital Gamma Ray			
MEL-GOI (TEL)			Digital Telemetry Microlog	7.21	3.50	150.00
MCAL	22.99					
MI	22.99					
MN	22.86					
CILD	10.92		DIL-GEAR (158)	21.36	4.00	395.00
SP	10.42		Dual Induction Electrical Log			
CILM	7.00					
RLL3	1.65					

Dataset:	ow2-9173 siena natural resources.db: field/well/DILM/pass1
Total length:	32.26 ft
Total weight:	585.00 lb
O.D.:	4.00 in