F

BAKER HUGHES

INTEQ

MULTIPLE PROPAGATION RESISTIVITY
GAMMA RAY

DOGGR
Received–
APR 11 2013

Memory Log

Company	Oxy USA LA Basin
Well	DOM–002
Field	Dominguez
County	Los Angeles
State	California
Country	United States

Well Location:
Surface Location:
N 4 062 757.48
E 4 214 076.81

Other Services
Directional
VSS
Annular Pressure

API Number	SEC	TWP	RNG
037–27148	33	3S	13W

Log Measured From	DF ASL	@	194.09 ft.	Above Permanent Datum	Elevation KB N/A
Depth In	1128 ft.	MWD Start	16 Feb 2011	Permanent Datum	Elevation DF 25.12 ft.
Depth Out	13182 ft.	MWD End	26 Apr 2011	ASL	Sea Bed/GL 168.97 ft.

BOREHOLE RECORD			CASING RECORD		
Hole Diameter	From	To	Casing Size	From	To
17.5 in.	Surface	2375 ft.	18.625 in.	Surface	596 ft.
12.25 in.	2375 ft.	10000 ft.	13.375 in.	Surface	2364 ft.
8.5 in.	10000 ft.	13182 ft.	9.625 in.	Surface	9992 ft.

Drilling Contractor: Helmerich & Payne Rig: H&P 236

1:600

MEASURED DEPTH Confidential **FIELD PRINT**

Company Representative: R. Morse

Field Personnel: Stephen Martin, Shawn McCaffrey Job#: 3657534

Bit Run Number	2	2RR	3	3	3RR	4	4	4RR	4RR	4RR
INTEQ Data										
Run Number	2	3	4	5	6	7	8	9		
DHA Serial Number	10506210	10506210	10506210	10506210	10506210	10506210	10506210	10506210		
Surface Gear Serial Number	MSB 18313	MSB 18313	MSB 18313	MSB 18313	MSB 18313	MSB 18313	MSB 18313	MSB 18313		
Tool OD (in) / Type	8.25 OTK	8.25 OTK	8.25 OTK	8.25 OTK	8.25 OTK	8.25 OTK	8.25 OTK	8.25 OTK		
Run Data										
Bit Diameter (in)	12.25	12.25	12.25	12.25	12.25	12.25	12.25	12.25		
Measured Depth In (ft)	2385	4113	4795	5294	5620	6540	6985	7610		
Measured Depth Out (ft)	4113	4795	5294	5620	6540	6985	7610	9771		
Top of Interval Logged (ft)	2385	4057	4739	5240	5564	6485	6927	7548		
Bottom of Interval Logged (ft)	4057	4739	5240	5564	6485	6927	7548	9709		
Min/Max Inclination (deg)	31.5 - 36.2	14.8 - 31.3	5.5 - 11.7	5.3 - 5.4	5.4 - 7.3	4.9 - 7.5	4.4 - 5.1	5.0 - 2.3		
Begin Log (hrs)	17:00	11:21	17:45	09:00	23:50	04:45	23:30	15:05		
Begin Log (date)	24 Feb 2011	26 Feb 2011	27 Feb 2011	02 Mar 2011	06 Mar 2011	10 Mar 2011	12 Mar 2011	15 Mar 2011		
End Log (hrs)	20:00	11:40	20:30	14:30	13:00	20:30	23:00	20:40		
End Log (date)	25 Feb 2011	27 Feb 2011	28 Feb 2011	03 Mar 2011	08 Mar 2011	10 Mar 2011	13 Mar 2011	19 Mar 2011		
Mud Data @ Depth (ft)	4113	4481	5294	5620	6540	6985	7610	9771		
Mud Type	Water Based	Water Based	Water Based	Water Based	Water Based	Water Based	Water Based	Water Based		

Density From – To (ppg)	10.1 - 10.1	10.2 - 10.3	10.3 - 10.3	10.3 - 10.3	10.3 - 10.3	10.3 - 10.3	10.3 - 10.5	10.5 - 10.5
Mud Chlorides (ppm)	45000	39000	45500	38000	38000	40000	38000	38000
Oil/Water Ratio (%)	0 / 90	0 / 90	0 / 90	0 / 89	0 / 89	0 / 89	0 / 89	0 / 89
Max Circulating Temp (° F)	134	147	150	150	150	155	162	177
Company Representative	R. Allen	R. Allen	R. Morse	R. Morse	R. Morse	R. Morse	J. Watkins	J. Watkins
Field Engineer	B. Reynolds	S. Martin	S. Martin	S. Martin	S. Martin	S. Martin	S. McCaffrey	S. McCaffrey

Bit Run Number	5	6	7	7RR	8RR			
INTEQ Data								
Run Number	10	11	12	13	14			
DHA Serial Number	10506210	11748284	11748284	11748284	11748284			
Surface Gear Serial Number	MSB 18313	MSB 18313	MSB 18313	MSB 18313	MSB 18313			
Tool OD (in) / Type	8.25 OTK	8.25 OTK	8.25 OTK	8.25 OTK	8.25 OTK			
Run Data								
Bit Diameter (in)	12.25	8.5	8.5	8.5	8.5			
Measured Depth In (ft)	9771	10000	10623	11320	11320			
Measured Depth Out (ft)	10000	10623	11320	12465	13182			
Top of Interval Logged (ft)	9709	9992	10574	10525	10525			
Bottom of Interval Logged (ft)	9942	10574	10525	12426	13132			
Min/Max Inclination (deg)	2.4 - 2.6	3.4 - 6.8	5.5 - 5.8	5.4 - 3.5	2.4 - 3.5	-	-	-
Begin Log (hrs)	00:50	00:50	22:00	15:30	5:00			
Begin Log (date)	22 Mar 2011	13 Apr 2011	16 Apr 2011	20 Apr 2011	25 Apr 2011			
End Log (hrs)	08:30	03:40	08:55	23:50	17:30			
End Log (date)	22 Mar 2011	16 Apr 2011	18 Apr 2011	22 Apr 2011	26 Apr 2011			
Mud Data @ Depth (ft)	10000	10600	11300	12465	13132			
Mud Type	Water Based	Water Based	Water Based	Water Based	Water Based			
Density From – To (ppg)	10.5 - 10.5	12.0 - 12.7	12.7 - 12.7	12.7 - 13.2	13.2 - 13.2	-	-	-
Mud Chlorides (ppm)	38000	40000	42000	40000	42000			
Oil/Water Ratio (%)	0 / 89	2 / 81	4 / 76	3 / 75	3 / 75			
Max Circulating Temp (° F)	177	190	204	225	338			
Company Representative	J. Watkins	J. Watkins	J. Watkins	S. Cheeseman	S. Cheeseman			
Field Engineer	S. McCaffrey	S. McCaffrey	S. McCaffrey	S. McCaffrey	S. McCaffrey			

Equipment Data								
INTEQ Run Number	2	3	4	5	6	7	8	9
Modular Assembly Number	1	1	1	1	1	1	1	1
Drill Collar S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	10506210
Master S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	10506210
Drill Collar Converter S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pressure Sub S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	10506210
Neutron Sub S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Neutron Source S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Density Sub S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Density Source S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gamma Sub S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	10506210
Resistivity Detector S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	10506210

Resistivity Detector S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	10506210
Resistivity Sub S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	10506210
Sensor Offsets to Bit (ft) / Acquisition Rates (sec)								
Bottom of INTEQ MWD (ft)	47.88	47.66	47.66	47.66	50.81	54.10	54.10	54.10
Resistivity	56.09 / 10	55.87 / 10	55.87 / 10	55.87 / 10	59.02 / 10	62.31 / 10	62.31 / 10	62.31 / 10
Gamma Ray	50.71 / 10	50.49 / 10	50.49 / 10	50.49 / 10	53.64 / 10	56.93 / 10	56.93 / 10	56.93 / 10
Pressure	51.46 / 30	51.24 / 30	51.24 / 30	51.24 / 30	54.39 / 30	57.68 / 30	57.68 / 30	57.68 / 30
Density	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A
Neutron	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A
Directional	62.88 / 60	62.66 / 60	62.66 / 60	62.66 / 60	65.81 / 60	69.10 / 60	69.10 / 60	69.10 / 60
Temperature	BIT DEPTH	BIT DEPTH	BIT DEPTH	BIT DEPTH	BIT DEPTH	BIT DEPTH	BIT DEPTH	BIT DEPTH
Other Tool Information								
Total INTEQ Length (ft)	34.62	34.62	34.62	34.62	34.62	54.10	54.10	54.10
Assembly Type	Ontrak	Ontrak	Ontrak	Ontrak	Ontrak	Ontrak	Ontrak	Ontrak
Stabilizer above Resistivity (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Stabilizer below Resistivity (ft)	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20
Run Circulating Time (hrs)	26.4	24.5	21.6	23.0	31.1	11.1	17.3	88.6

Equipment Data								
INTEQ Run Number	10	11	12	13	14			
Modular Assembly Number	1	2	2	3	3			
Drill Collar S/N	10506210	11748284	11748284	11748284	11748284			
Master S/N	10506210	11748284	11748284	11748284	11748284			
Drill Collar Converter S/N	N/A	N/A	N/A	N/A	N/A			
Pressure Sub S/N	10506210	11748284	11748284	11748284	11748284			
Neutron Sub S/N	N/A	N/A	N/A	N/A	N/A			
Neutron Source S/N	N/A	N/A	N/A	N/A	N/A			
Density Sub S/N	N/A	N/A	N/A	N/A	N/A			
Density Source S/N	N/A	N/A	N/A	N/A	N/A			
Gamma Sub S/N	10506210	11748284	11748284	11748284	11748284			
Resistivity Detector S/N	10506210	11748284	11748284	11748284	11748284			
Resistivity Sub S/N	10506210	11748284	11748284	11748284	11748284			
Sensor Offsets to Bit (ft) / Acquisition Rates (sec)								
Bottom of INTEQ MWD (ft)	50.32	40.52	41.02	41.02	41.02			
Resistivity	58.53 / 10	48.48 / 10	48.98 / 10	48.98 / 10	48.98 / 10	/	/	/
Gamma Ray	53.15 / 10	44.45 / 10	44.95 / 10	44.95 / 10	44.95 / 10	/	/	/
Pressure	53.90 / 30	43.56 / 30	44.06 / 30	44.06 / 30	44.06 / 30	/	/	/
Density	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	/	/	/
Neutron	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	/	/	/
Directional	65.32 / 60	54.29 / 60	54.79 / 60	54.79 / 60	54.79 / 60	/	/	/
Temperature	BIT DEPTH	BIT DEPTH	BIT DEPTH	BIT DEPTH	BIT DEPTH			
Other Tool Information								
Total INTEQ Length (ft)	54.10	54.10	54.10	54.10	54.10			
Assembly Type	Ontrak	Ontrak	Ontrak	Ontrak	Ontrak			
Stabilizer above Resistivity (ft)	N/A	N/A	N/A	N/A	N/A			
Stabilizer below Resistivity (ft)	16.30	17.50	17.50	17.50	17.50			
Run Circulating Time (hrs)	15.6	52.0	27.0	51.9	30.2			

Calibration Verification								
Post Run	N/A	2	3	4	5	6	7	8
Pre Run	2	3	4	5	6	7	8	9
Date	24 Feb 2011	25 Feb 2011	27 Feb 2011	28 Feb 2011	03 Mar 2011	08 Mar 2011	12 Mar 2011	13 Mar 2011
Time (hrs)	13:45	22:55	17:07	23:49	17:38	15:56	21:49	23:21
Resistivity Sub S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	10506210

Phase Difference Delta (deg)	0.0870	0.1481	0.0882	0.0526	0.0682	0.0635	0.0597	0.0653
Base Attenuation Delta (deg)	0.0846	0.1312	0.0963	0.0857	0.0732	0.0868	0.0745	0.0867
Average Temperature (° F)	69	111	103	101	117	107	61	123
Status	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Gamma Sub S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	10506210
Gamma Verifier S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Verifier Field (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Verifier Shop (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Background Field (cps)	5.07 / 4.24	4.69 / 4.51	3.68 / 4.93	4.94 / 4.77	5.87 / 4.59	4.80/ 4.97	4.48 / 5.23	5.31 / 6.49
Background Shop (cps)	4.68 / 5.09	4.68 / 5.09	4.68 / 5.09	4.68 / 5.09	4.68 / 5.09	4.68 / 5.09	4.68 / 5.09	4.68 / 5.09
Status	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Neutron Sub S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Neutron Verifier S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Near Shop (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Near Field (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Far Shop (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Far Field (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Status	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Density Sub S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Density Verifier S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Short Spaced Shop (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Short Spaced Field (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Long Spaced Shop (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Long Spaced Field (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Status	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Backgound counts have been subtracted from Gamma "Verifier Field (cps)" and "Verifier Shop (cps)"

Calibration Verification

Post Run	9	10	N/A	11	12	13	14	
Pre Run	10	N/A	11	12	13	14	N/A	
Date	19 March 2011	22 March 2011	13 April 2011	16 April 2011	18 April 2011	18 April 2011	26 April 2011	
Time (hrs)	20:46	22:10	12:50	8:50	19:20	19:20	23:30	
Resistivity Sub S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	
Phase Difference Delta (deg)	0.0501	0.0734	0.1988	0.1178	0.1267	0.1322	0.1090	
Base Attenuation Delta (deg)	0.0910	0.0876	0.1269	0.1267	0.1145	0.1334	0.1278	
Average Temperature (° F)	130	132	69	114	94	69	119	
Status	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
Gamma Sub S/N	10506210	10506210	10506210	10506210	10506210	10506210	10506210	
Gamma Verifier S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
*Verifier Field (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
*Verifier Shop (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Background Field (cps)	4.80 / 5.36	5.04 / 6.61	4.97 / 4.91	5.07 / 5.68	3.87 / 5.55	5.05 / 4.30	4.20 / 5.77	
Background Shop (cps)	4.68 / 5.09	4.68 / 5.09	4.97 / 4.91	4.97 / 4.91	4.97 / 4.91	4.97 / 4.91	4.97 / 4.91	
Status	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
Neutron Sub S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Neutron Verifier S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Near Shop (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Near Field (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Far Shop (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Far Field (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Status	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Density Sub S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Density Verifier S/N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Short Spaced Shop (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Short Spaced Field (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Long Spaced Shop (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Long Spaced Field (cps)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Status	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

*Backgound counts have been subtracted from Gamma "Verifier Field (cps)" and "Verifier Shop (cps)"

ENVIRONMENTAL PARAMETERS

Date & Time	Run No.	Bit Depth (ft)	Rm @ BHCT (ohmm)	/	(° F)	Mud Weight (ppg)	%K	Rmf @ BHCT (ohmm)	/	(° F)
25 Feb 2011 14:15	2	3988	0.09	/	134	10.1	9	N/A	/	134
26 Feb 2011 16:22	3	4272	0.07	/	134	10.3	8	N/A	/	134
27 Feb 2011 21:16	4	4799	0.06	/	N/A	10.2	8	N/A	/	N/A
28 Feb 2011 15:25	4	5213	0.06	/	150	10.3	8	N/A	/	150
02 Mar 2011 21:45	5	5391	0.07	/	N/A	10.3	8	N/A	/	N/A
07 Mar 2011 21:00	6	6260	0.07	/	N/A	10.3	8	N/A	/	N/A
09 Mar 2011 15:00	7	6584	0.07	/	N/A	10.3	8	N/A	/	N/A
13 Mar 2011 08:00	8	7000	0.07	/	N/A	10.5	8	N/A	/	N/A
19 Mar 2011 02:00	9	9771	0.06	/	N/A	10.5	8	N/A	/	N/A
22 Mar 2011 08:30	10	10000	0.07	/	N/A	10.5	8	N/A	/	N/A
15 Apr 2011 15:00	11	10600	0.06	/	N/A	12.7	8	N/A	/	N/A
17 Apr 2011 23:00	12	11300	0.07	/	N/A	12.7	8	N/A	/	N/A
23 Apr 2011 19:00	13	12460	0.06	/	N/A	13.2	9	N/A	/	N/A
25 Apr 2011 20:00	14	13000	0.07	/	N/A	13.2	8	N/A	/	N/A
				/					/	
				/					/	

MNEMONICS:

GRAM > Gamma Ray APPARENT, API 0.5 ft. avg.

RACLM > Resistivity (AT) (LS) 400kHz Compensated Borehole Corrected ohm.m

RPCHM > Resistivity (PD) (LS) 2MHz Compensated Borehole Corrected, ohm.m

RPCLM > Resistivity (PD) (LS) 400kHz Compensated Borehole Corrected, ohm.m

RPCSHM > Resistivity (PD) (SS) 2 MHz-Compensated Borehole Corrected, ohm.m

CPCHM > Conductivity (PD) (LS) 2 MHz-Compensated Borehole Corrected, mmho/m

TCDM > Downhole Temperature, deg F

COMMENTS:

1. Baker Hughes INTEQ run 1 utilized an 8 1/4" OnTrak (Multiple Propagation Resistivity, Gamma ray and Annular Pressure) tool behind an 8" mud motor and a 17 1/4" bit from 1128 to 2375 ft MD (1125 to 2243 ft TVD) to provide a Directional Only service.

2. Baker Hughes INTEQ runs 2 thru 10 utilized 8 1/4" OnTrak (Multiple Propagation Resistivity, Gamma ray and Annular Pressure) tool behind an 8 mud motor and an 12 1/4" bit from 2385 to 10000 ft MD (2252 to 9478 ft TVD).

3. Baker Hughes INTEQ runs 11 thru 14 utilized 6 3/4" OnTrak (Multiple Propagation Resistivity, Gamma ray and Annular Pressure) tool behind an 6 3/4" mud motor and 8 1/2" bit from 10000 to 13182 ft MD (9478 to 12650 ft TVD).

4. Depth tracking for this well was based off a third party feed.

REMARKS:

1. 13 3/8 casing depth driller: 2364 feet MD (2354 feet TVD)
   13 3/8 casing depth logger: 2360 feet MD (2231 feet TVD)

2. The interval from 4051 to 4113 ft MD (3612 to 3664 ft TVD) was logged up to 20.1 hours after being drilled due to a trip to change out the mud motor.

3. The interval from 4735 to 4795 ft MD (4235 to 4294 ft TVD) was logged up to 13 hours after being drilled due to a trip to change the

bit.

4. The interval from 5238 to 5294 ft MD (4734 to 4789 ft TVD) was logged up to 48 hours after being drilled due to a trip at a coring point.

5. The interval from 5564 to 5620 ft MD (5058 to 5114 ft TVD) was logged up to 96 hours after being drilled due to a trip at a coring point.

6. The interval from 6918 to 6985 ft MD (6405 to 6471 ft TVD) was logged up to 59 hours after being drilled due to a trip at a coring point.

7. The interval from 7545 to 7609 ft MD (7029 to 7093 ft TVD) was logged up to 47 hours after being drilled due to a trip at a coring point.

8. The interval from 9704 to 9771 ft MD (9183 to 9250 ft TVD) was logged up 72 hours after being drilled due to a trip at a coring point.

9. The interval from 9941 to 9990 ft MD (9420 to 9469 ft TVD) was not logged due to bit to sensor offsets at casing point.

10. 9 5/8 casing depth driller: 9990 feet MD (9468 feet TVD)
    9 5/8 casing depth logger: 9995 feet MD (9472 feet TVD)

11. The interval from 9990 to 10000 ft MD (9469 to 9479 ft TVD) was logged up to 22 days after being drilled due to wireline logging and casing point.

12. The interval from 10580 to 10627 ft MD (10056 to 10103 ft TVD) was logged up to 33 hours after being drilled due to a bit trip.

13. The interval from 11270 to 11320 ft MD (10742 to 10792 ft TVD) was logged up to 68 hours after being drilled due to a trip at a coring point.

14. The interval from 12409 to 12464 ft MD 11878 to 11933 ft TVD) was logged up to 70 hours after being drilled due to a trip at a coring point.

15. The interval from 12465 to 13182 ft MD (11934 to 12650 ft TVD) was logged using only Gamma Sensor Two due to a Gamma Sensor one failure.

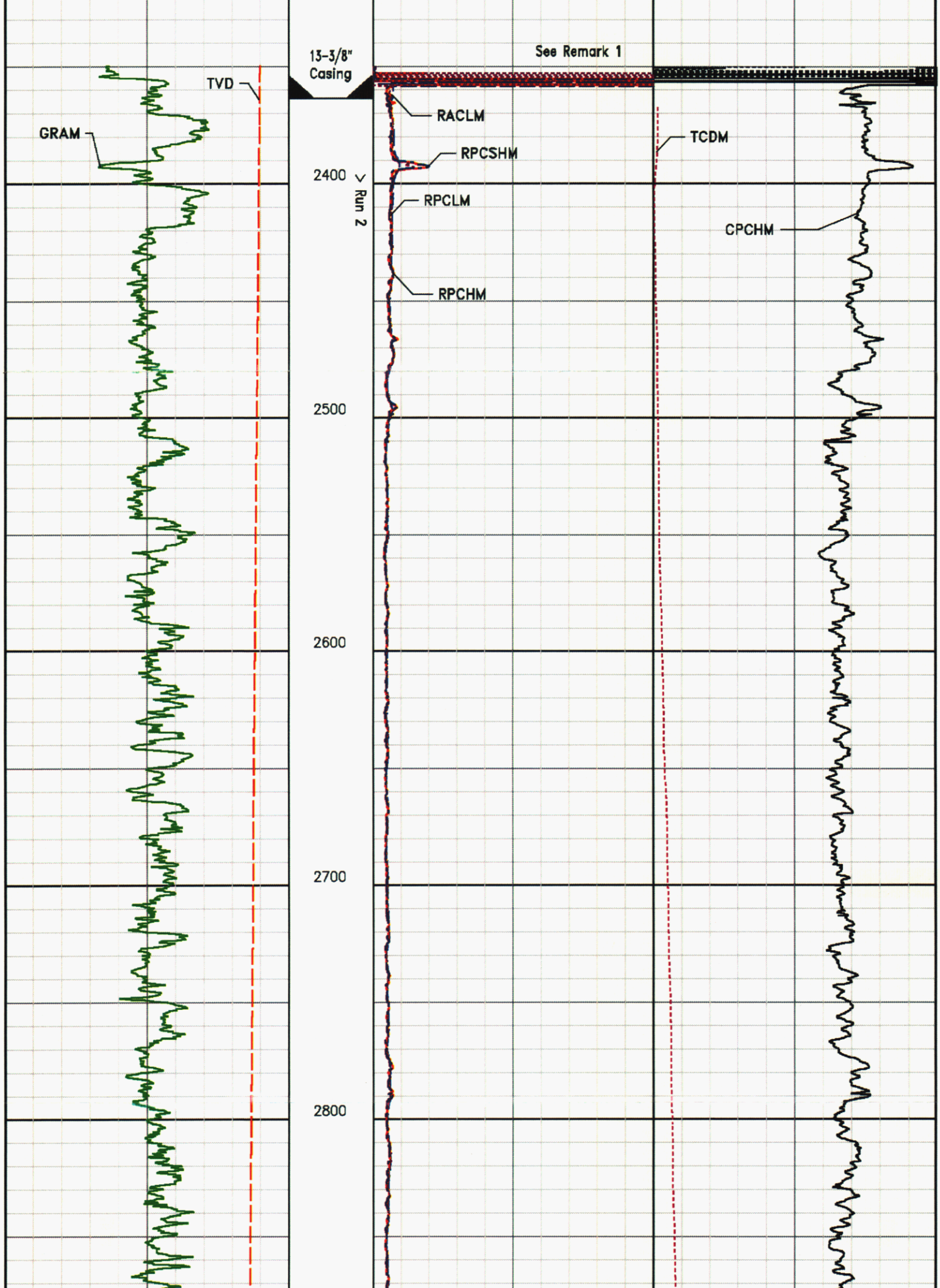
16. The interval from 13132 to 13182 ft MD (12600 to 12650 ft TVD) was not logged due to sensor offset at TD.

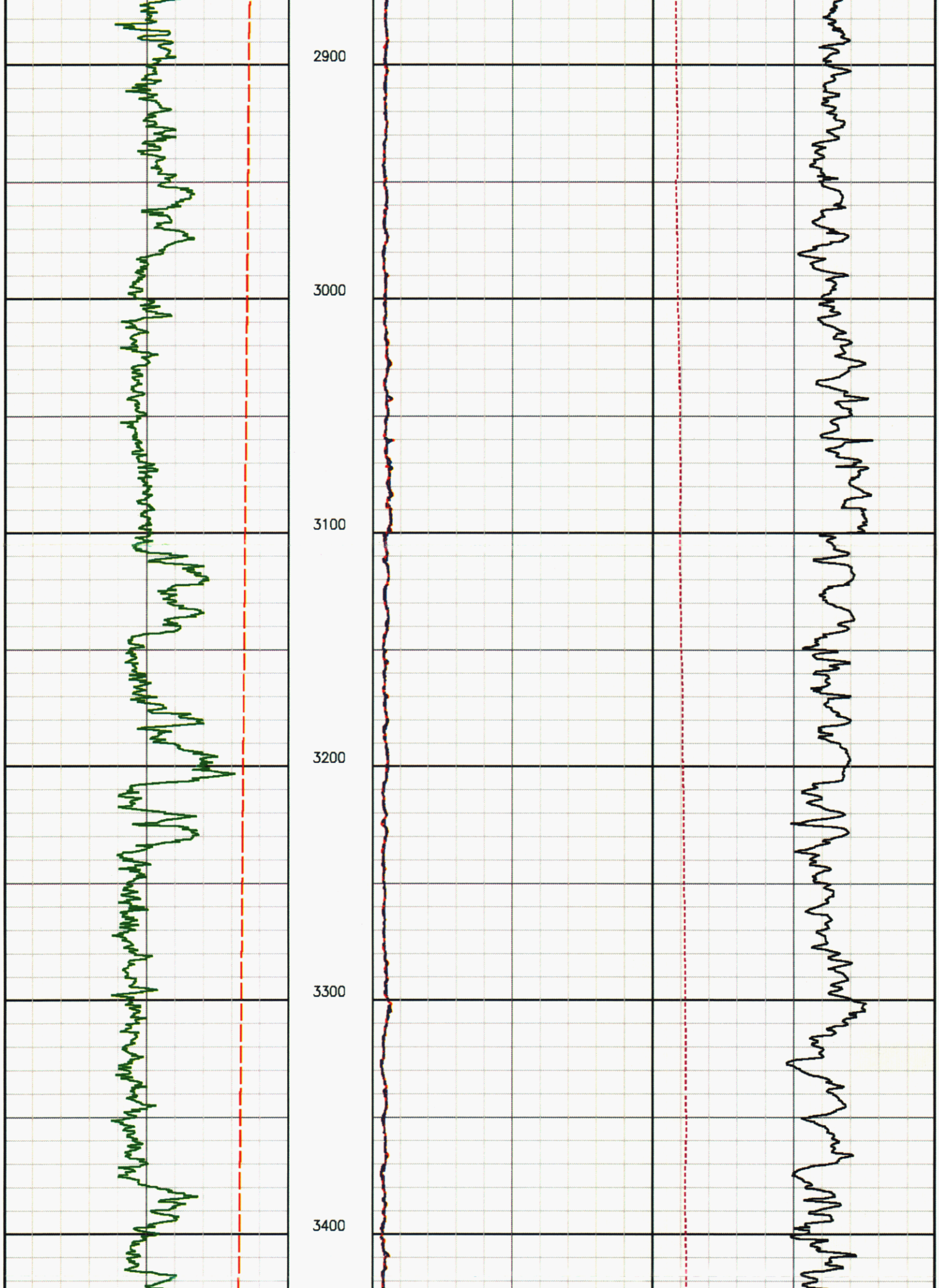
Baker Hughes INTEQ does not guarantee the accuracy or correctness of interpretations provided in or from this log. Since all interpretations are opinions based on measurements, Baker Hughes INTEQ shall under no circumstances be held responsible for consequential damages or any other loss, costs, damages or expenses incurred or sustained in connection with the use of any such interpretations. Baker Hughes INTEQ disclaims all expressed and implied warranties related to its service which is governed by Baker Hughes INTEQ's standard terms and conditions.

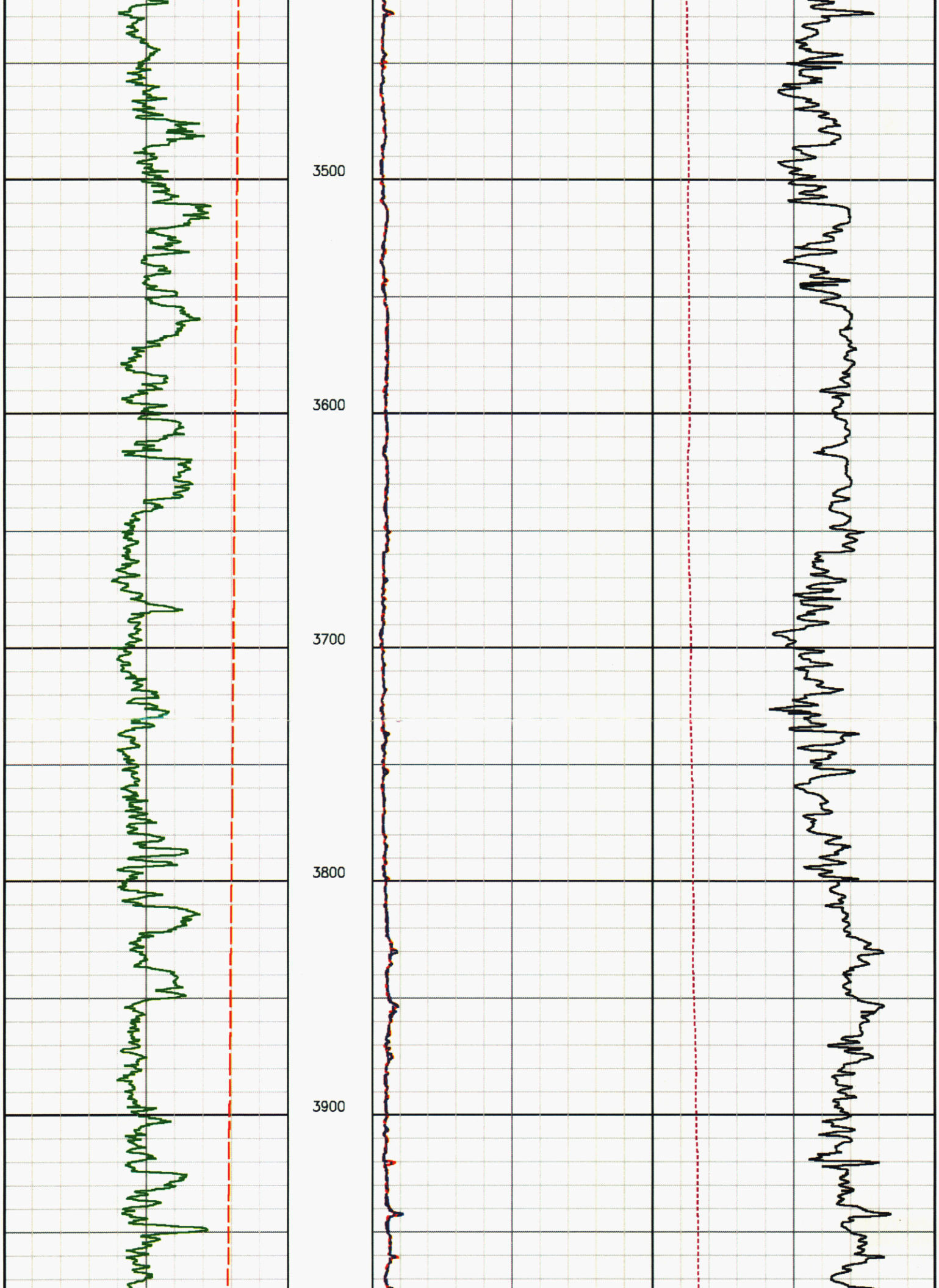
BAKER HUGHES
INTEQ

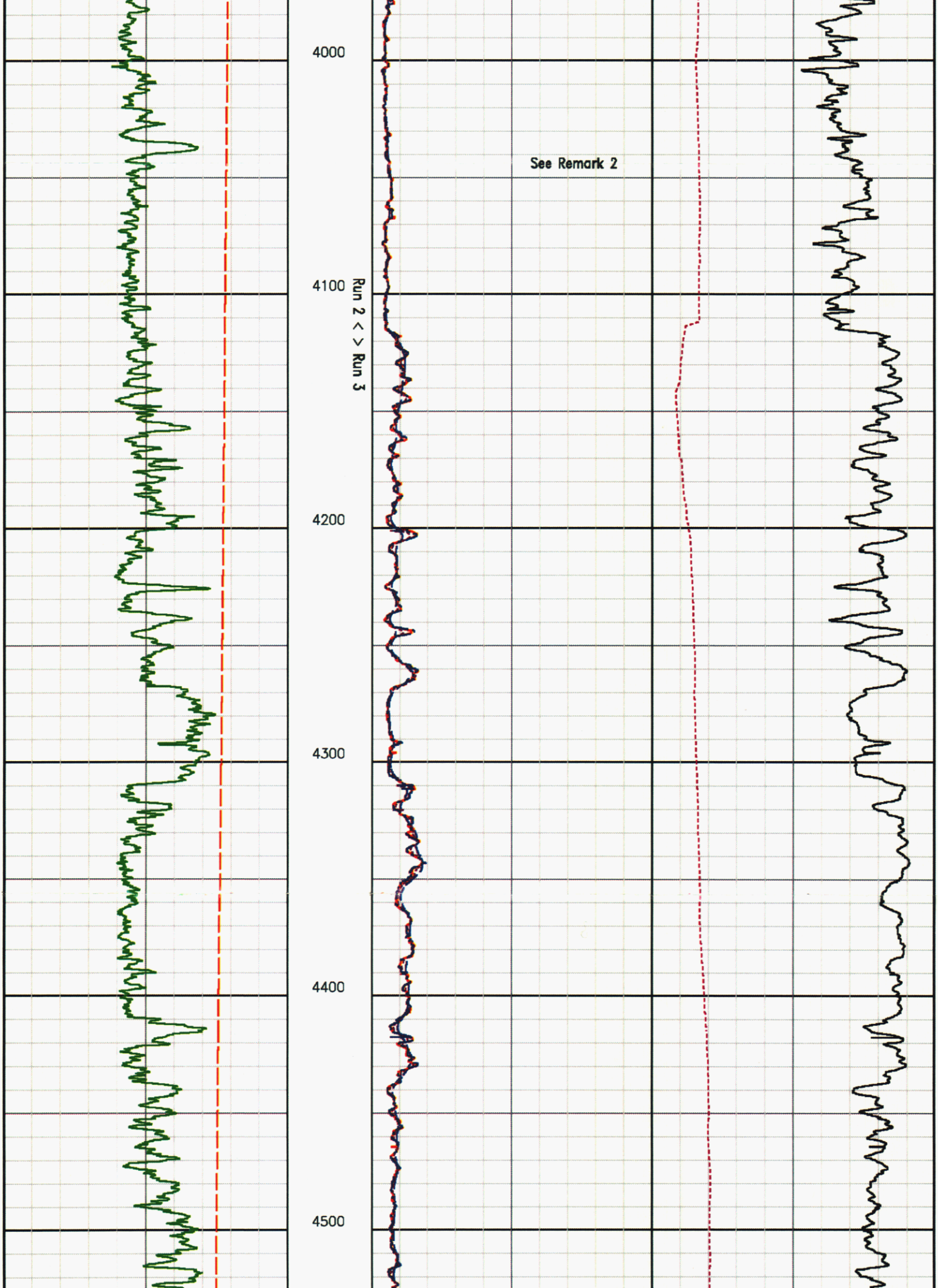
Company : OXY LA BASIN
Well : DOM-002
Interval : 2300.00 - 13195.00 feet
Created : 26/Feb/2011 7:52:36 AM

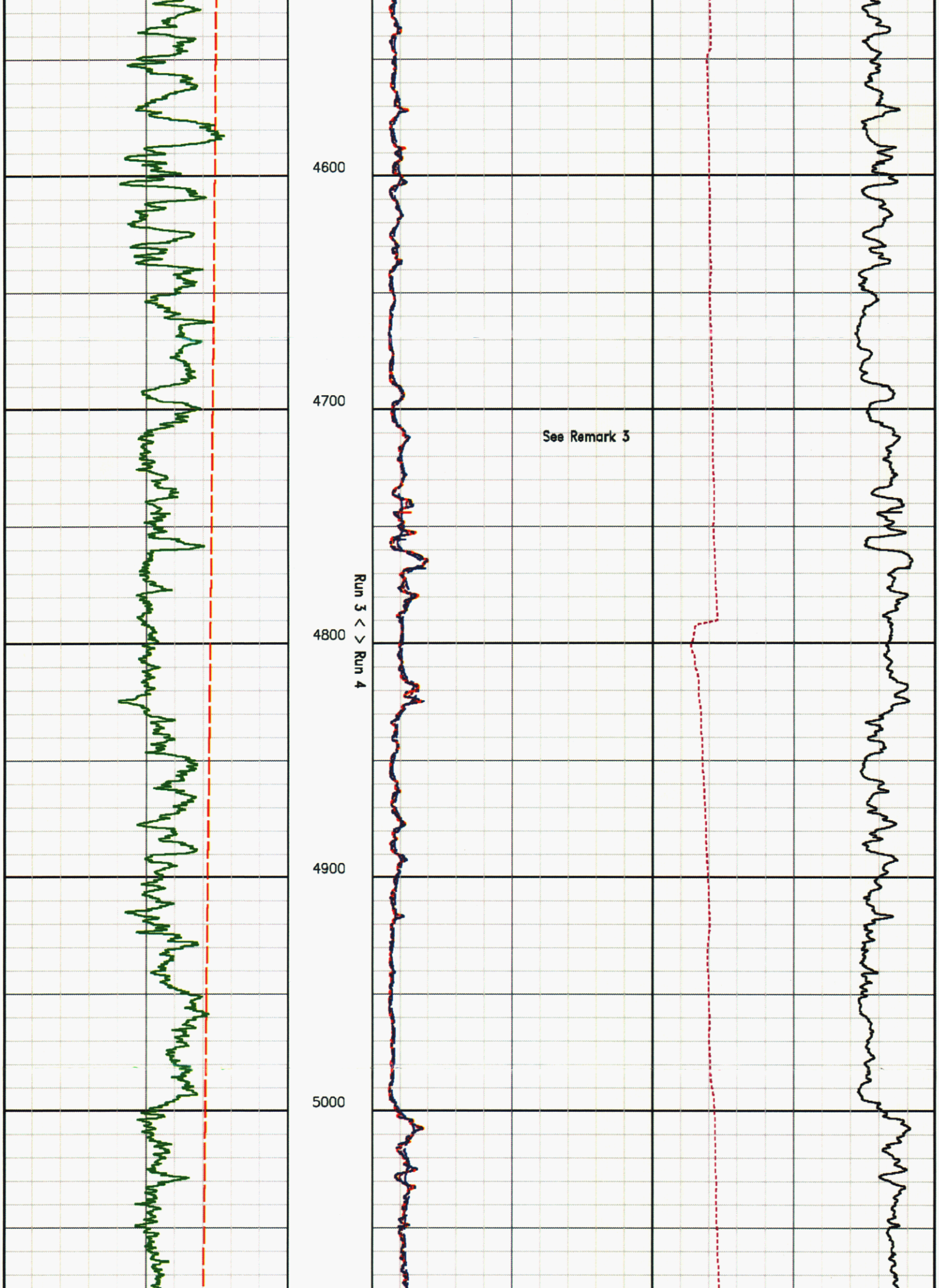
True Vertical Depth TVD (13000 – 1000, ft)	MD feet 1:600	Res AT LS 400 kHz Corr RACLM (0 – 30, ohm.m)	Con PD LS 2MHz Corr CPCHM (2000 – 0, mmho/m)
Gamma Ray Apparent 0.5 ft Avg GRAM (0 – 150, API)		Res PD LS 2MHz Corr RPCHM (0 – 30, ohm.m)	CDS Temperature TCDM (100 – 300, degF)
Gamma Ray 2 Apparent 0.5 ft Avg GR2AM (0 – 150, API)		Res PD LS 400kHz Corr RPCLM (0 – 30, ohm.m)	
		Res PD 2MHz Corr RPCSHM (0 – 30, ohm.m)	

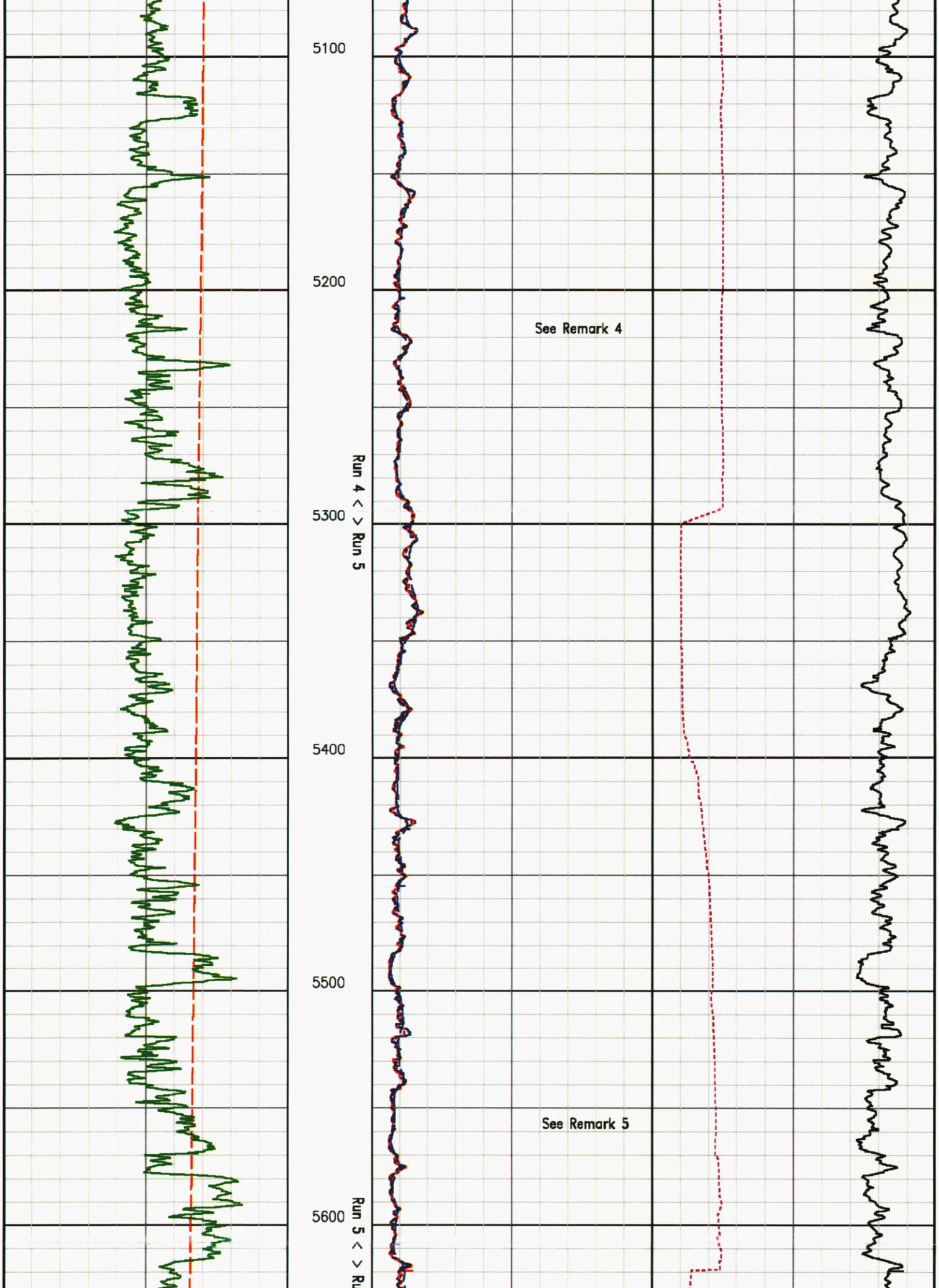

13-3/8"
Casing
See Remark 1
TVD
GRAM
RACLM
RPCSHM
RPCLM
RPCHM
TCDM
CPCHM
2400
Run 2
2500
2600
2700
2800

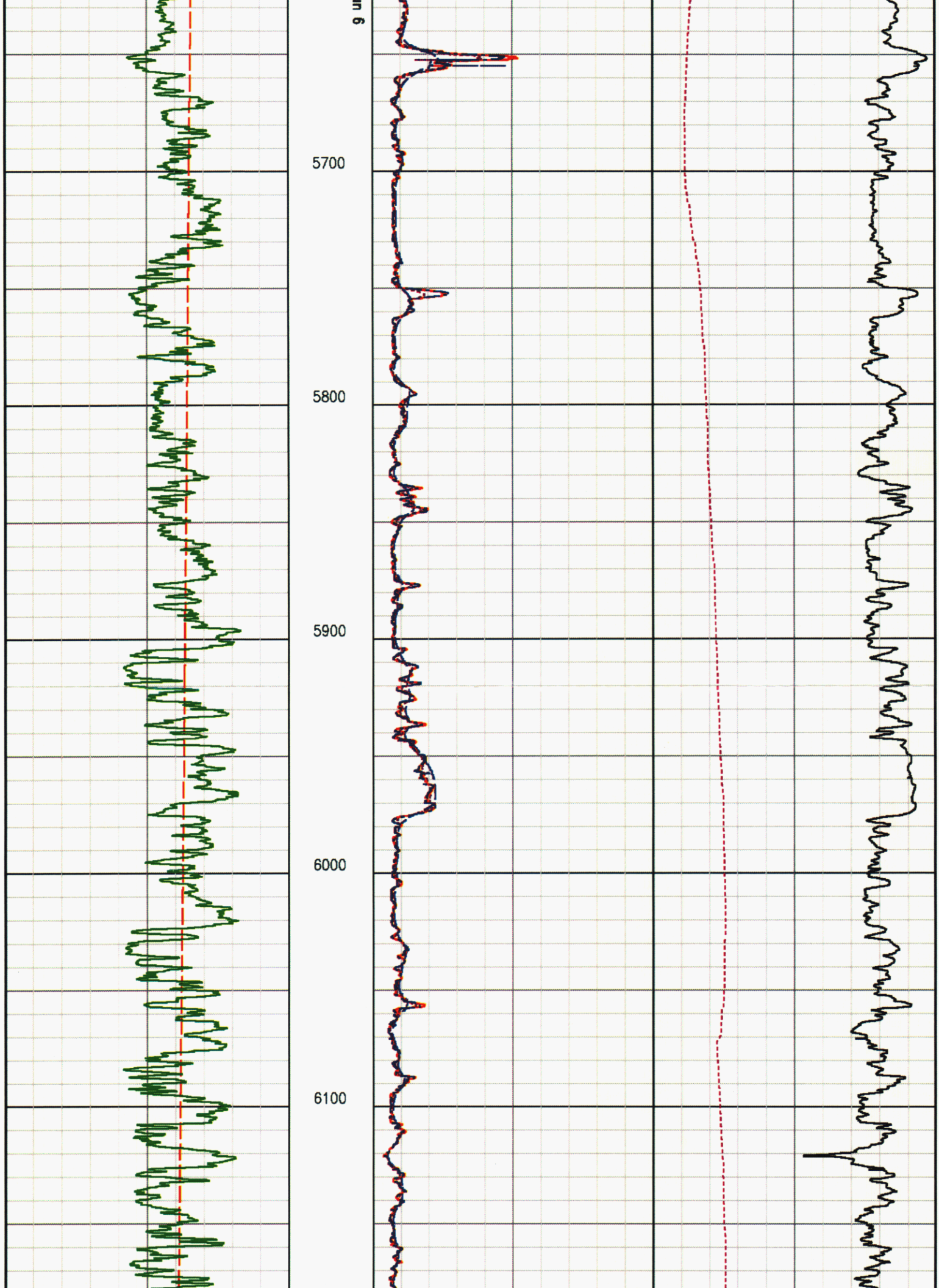

2900
3000
3100
3200
3300
3400

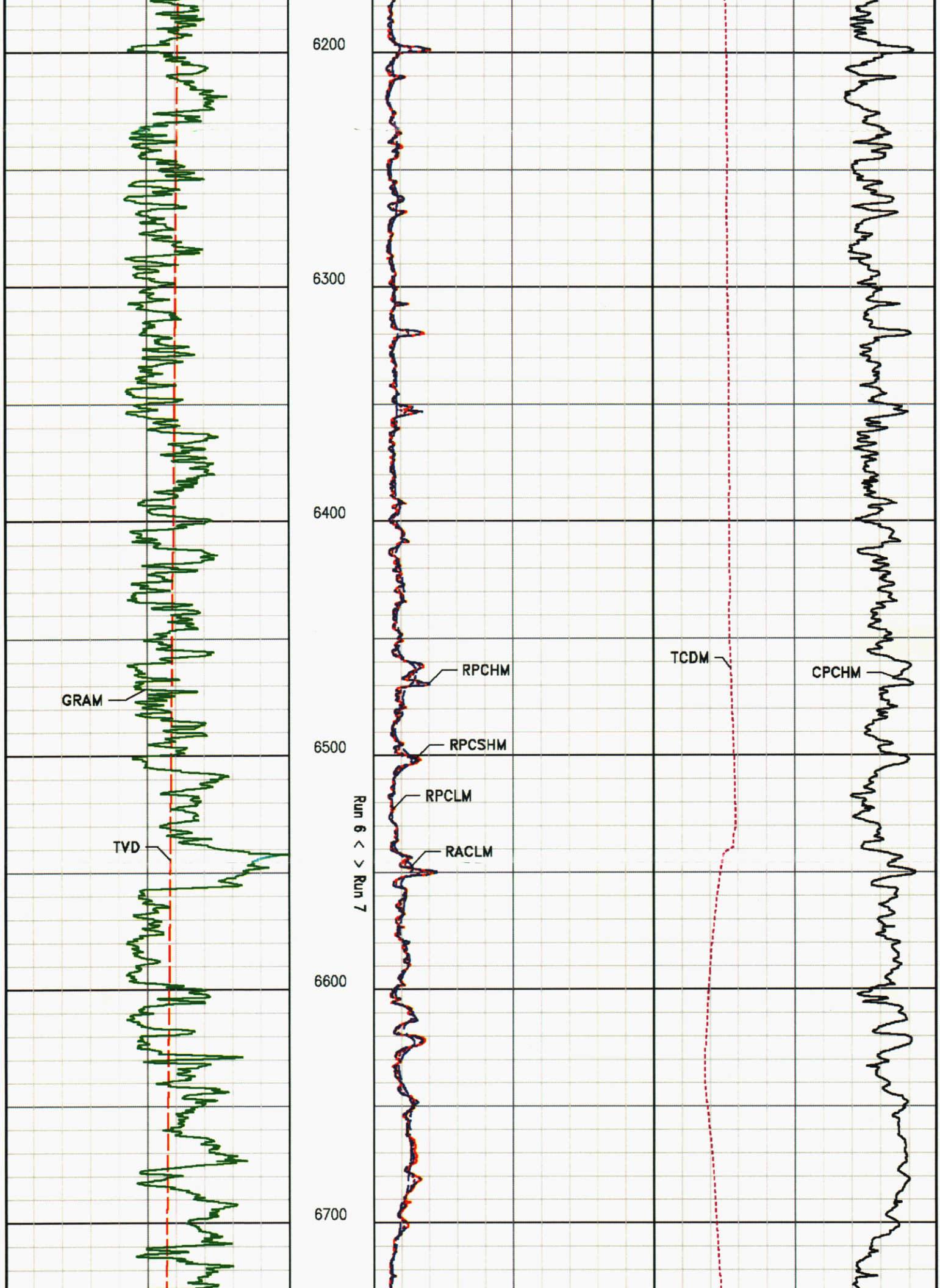

3500
3600
3700
3800
3900

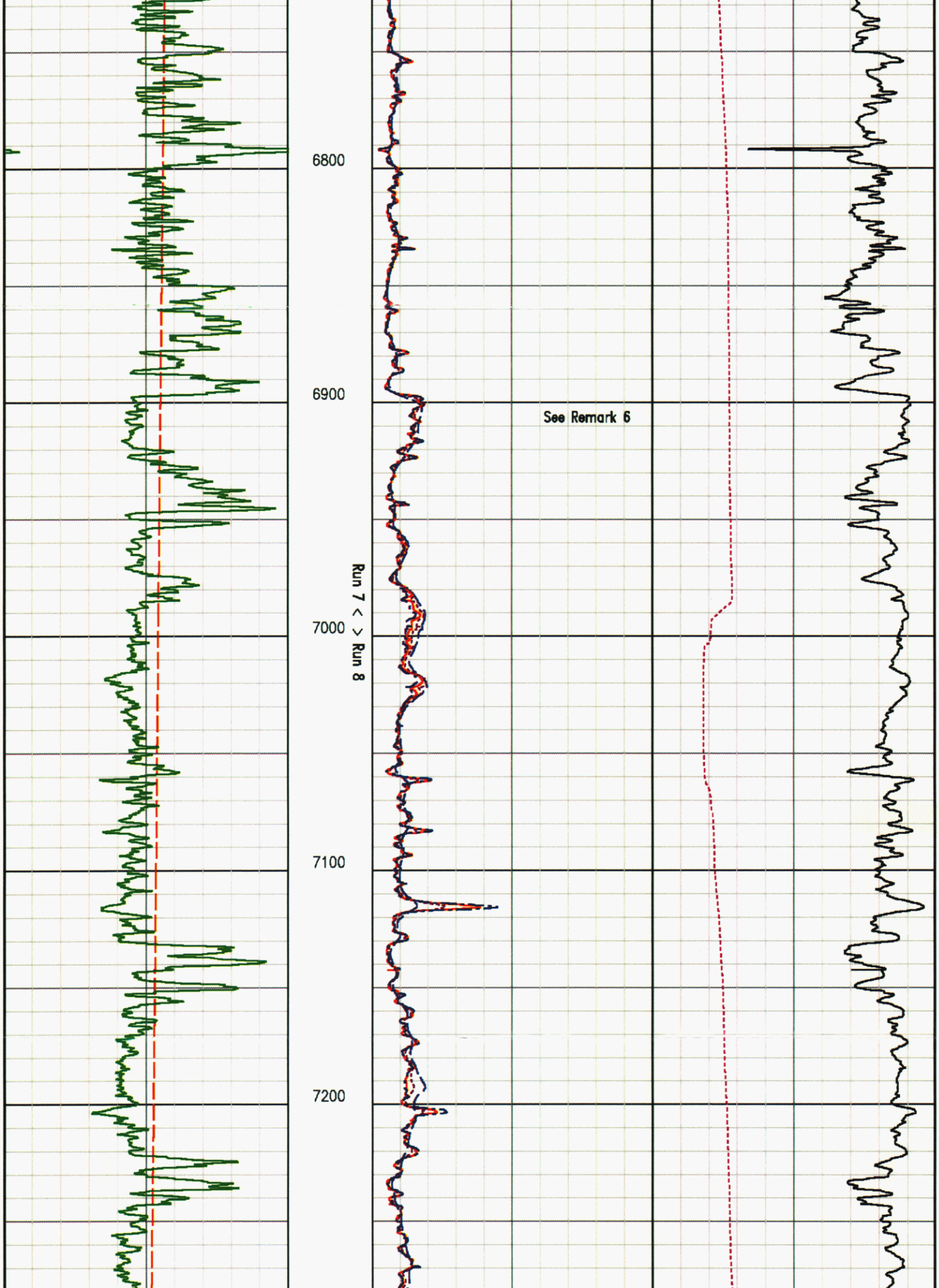

4000
4100
4200
4300
4400
4500
Run 2 < > Run 3
See Remark 2

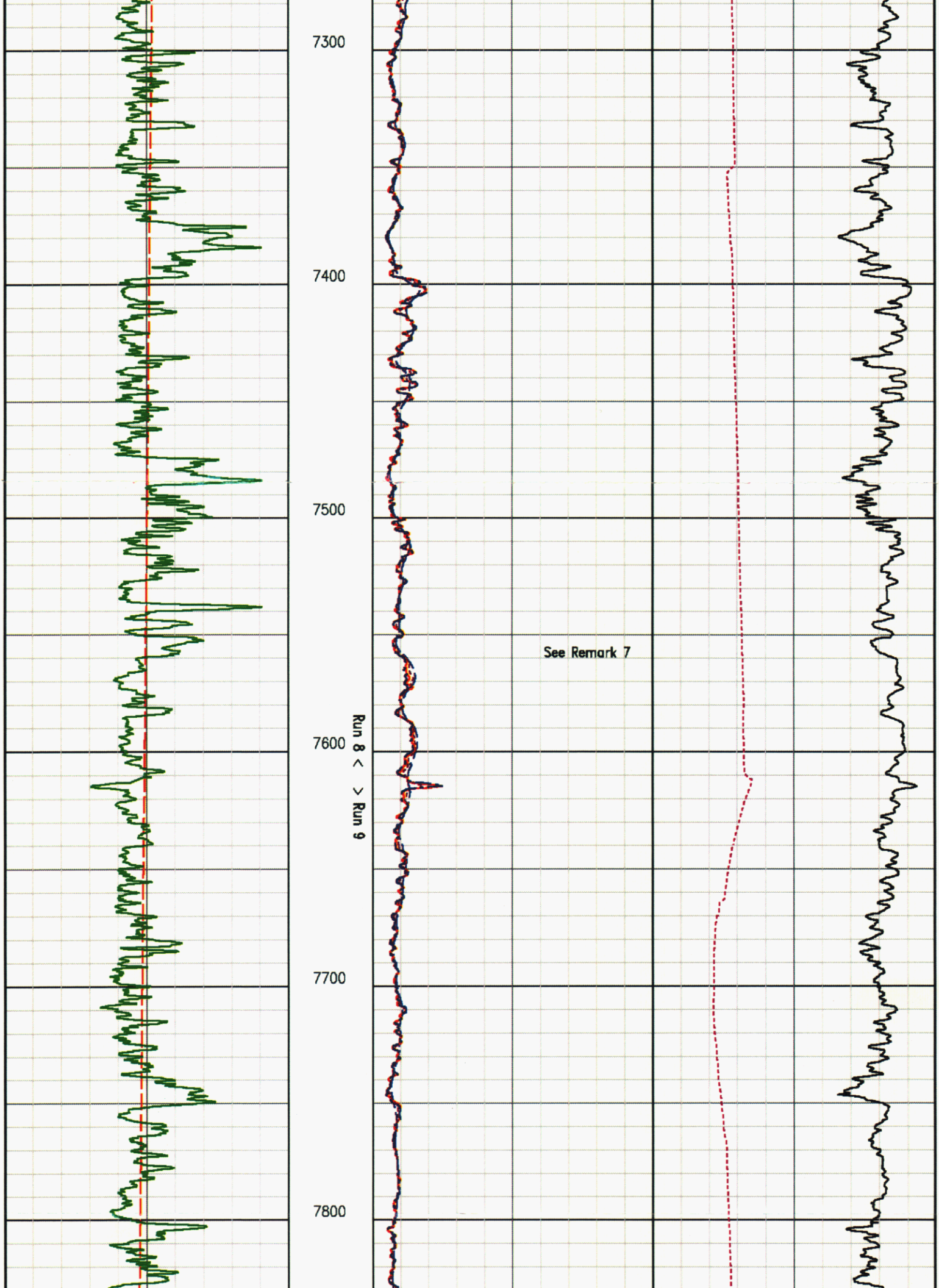

4600
4700
4800
4900
5000
Run 3 < > Run 4
See Remark 3

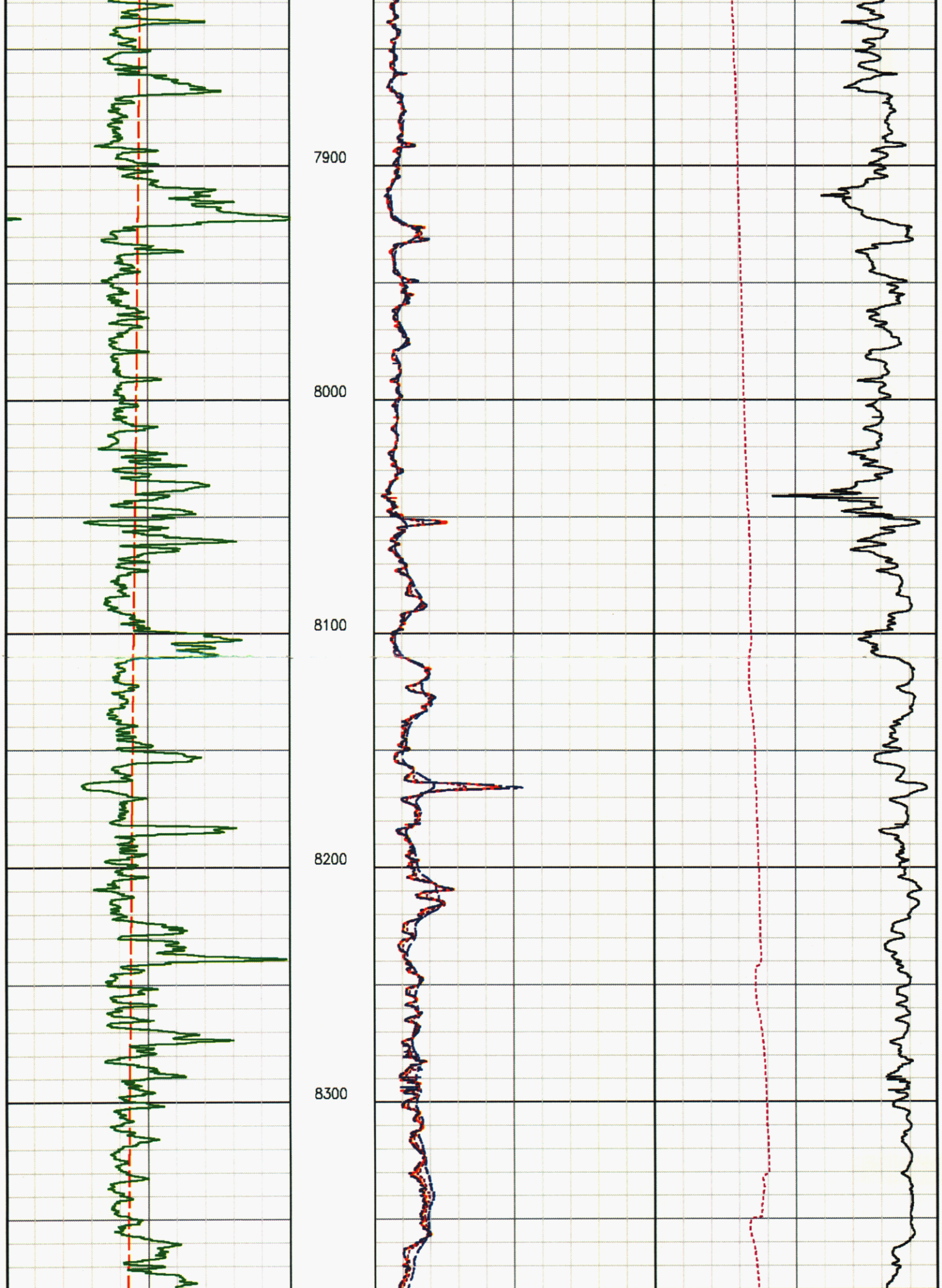

5100
5200
See Remark 4
Run 4 < > Run 5
5300
5400
5500
See Remark 5
5600
Run 5 < >

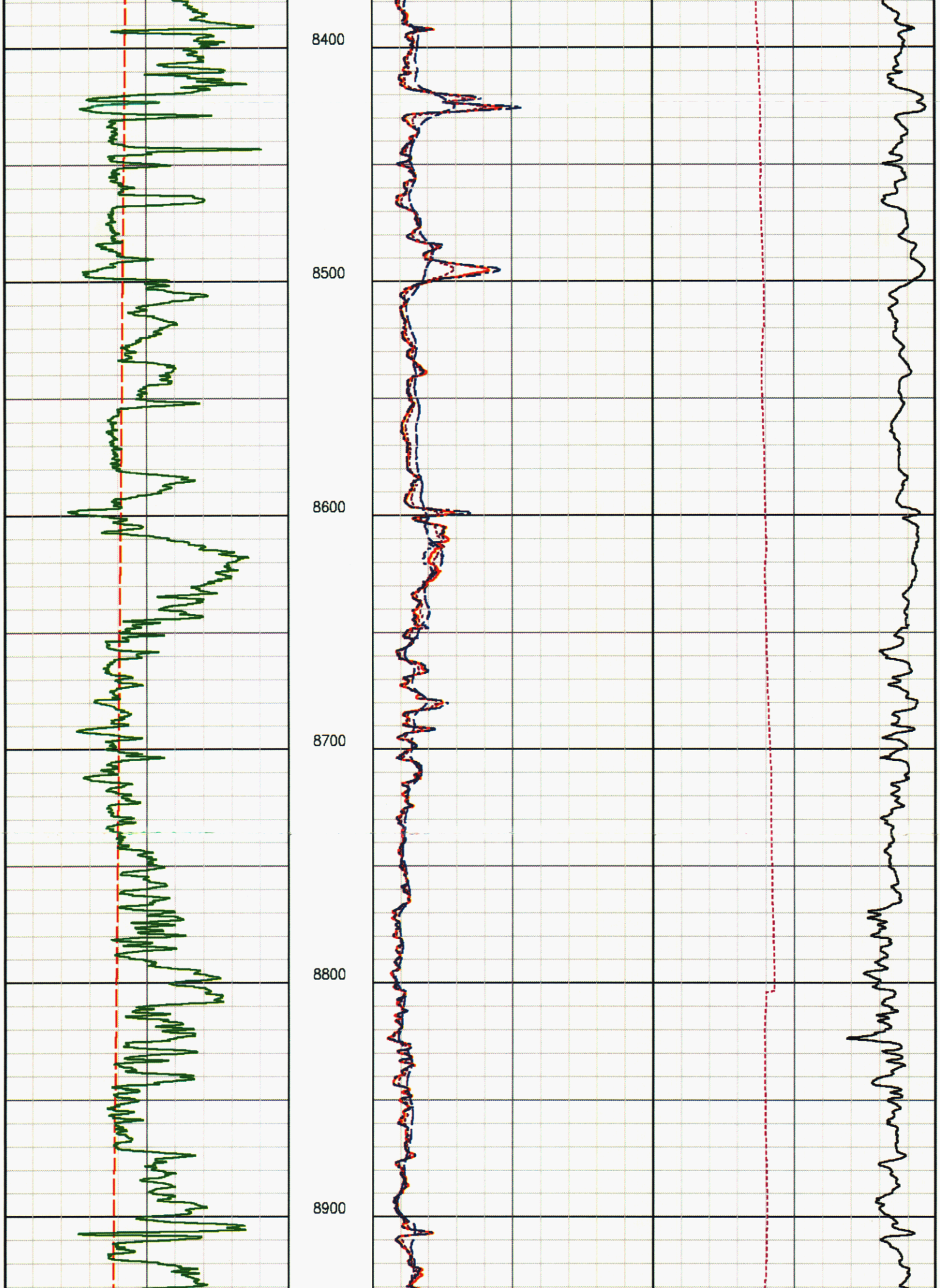

un 6
5700
5800
5900
6000
6100

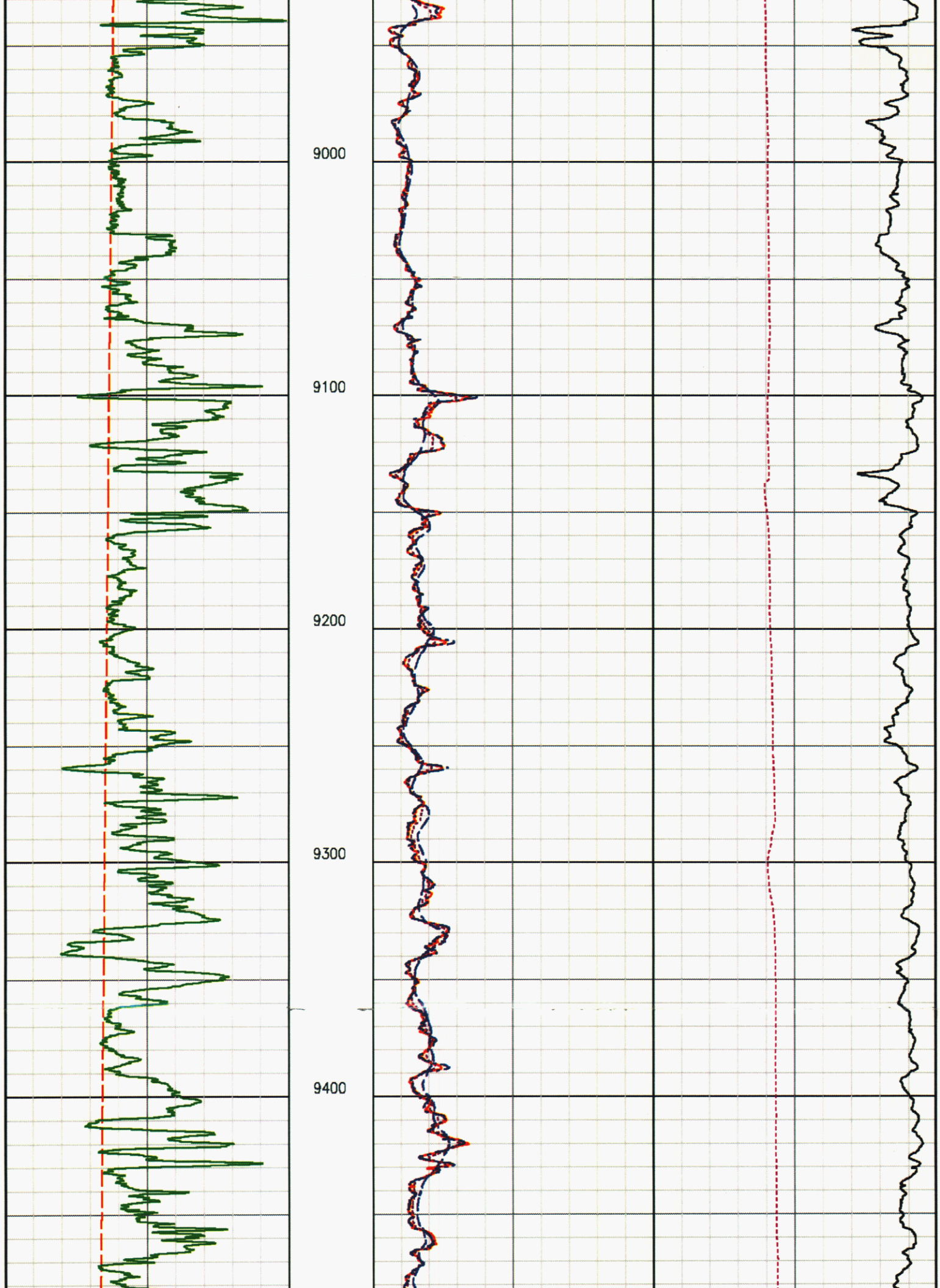

6200
6300
6400
6500
6600
6700
GRAM
TVD
RPCHM
RPCSHM
RPCLM
RACLM
Run 6 < > Run 7
TCDM
CPCHM

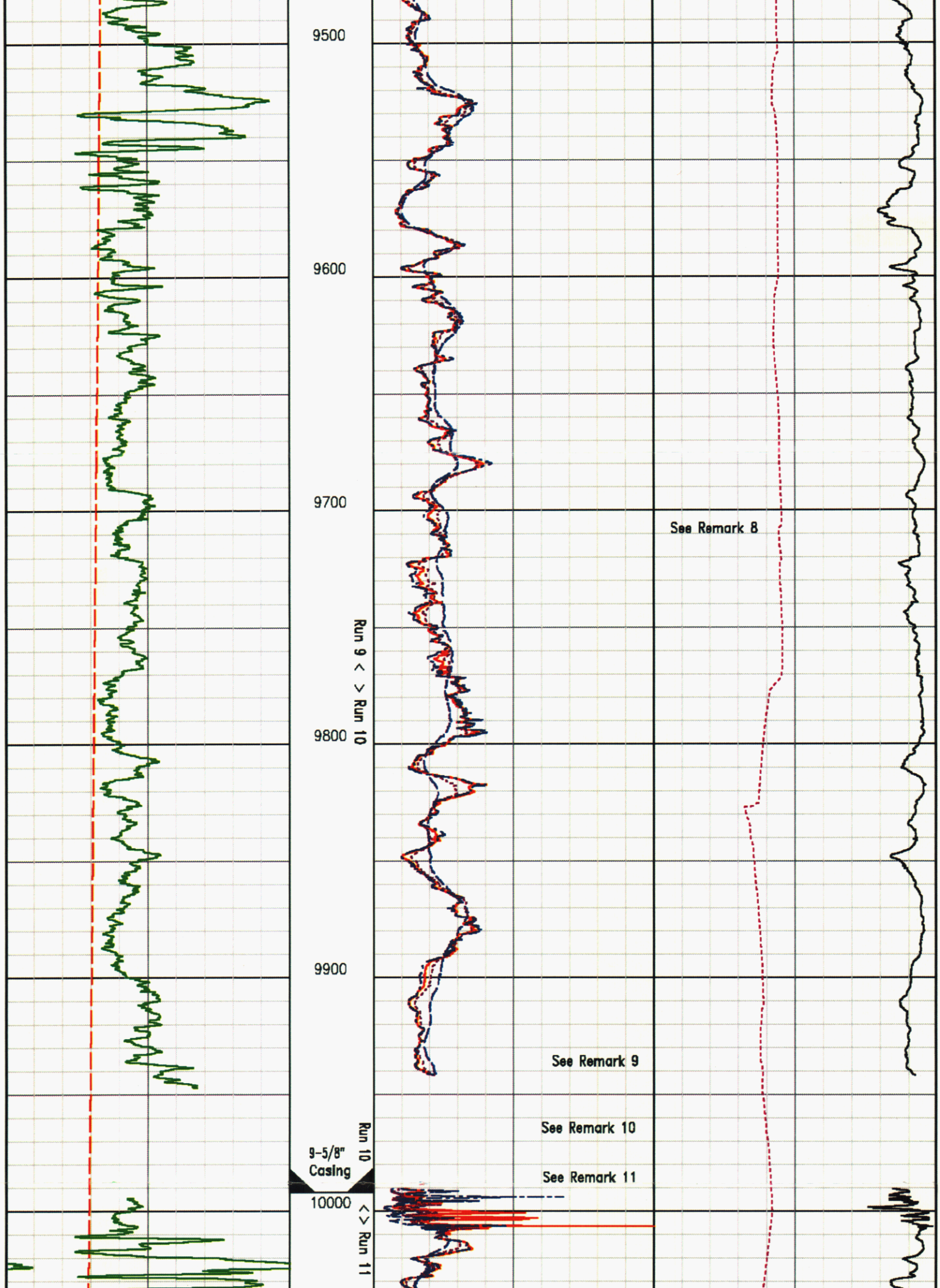

6800
6900
7000
7100
7200
Run 7 < > Run 8
See Remark 6

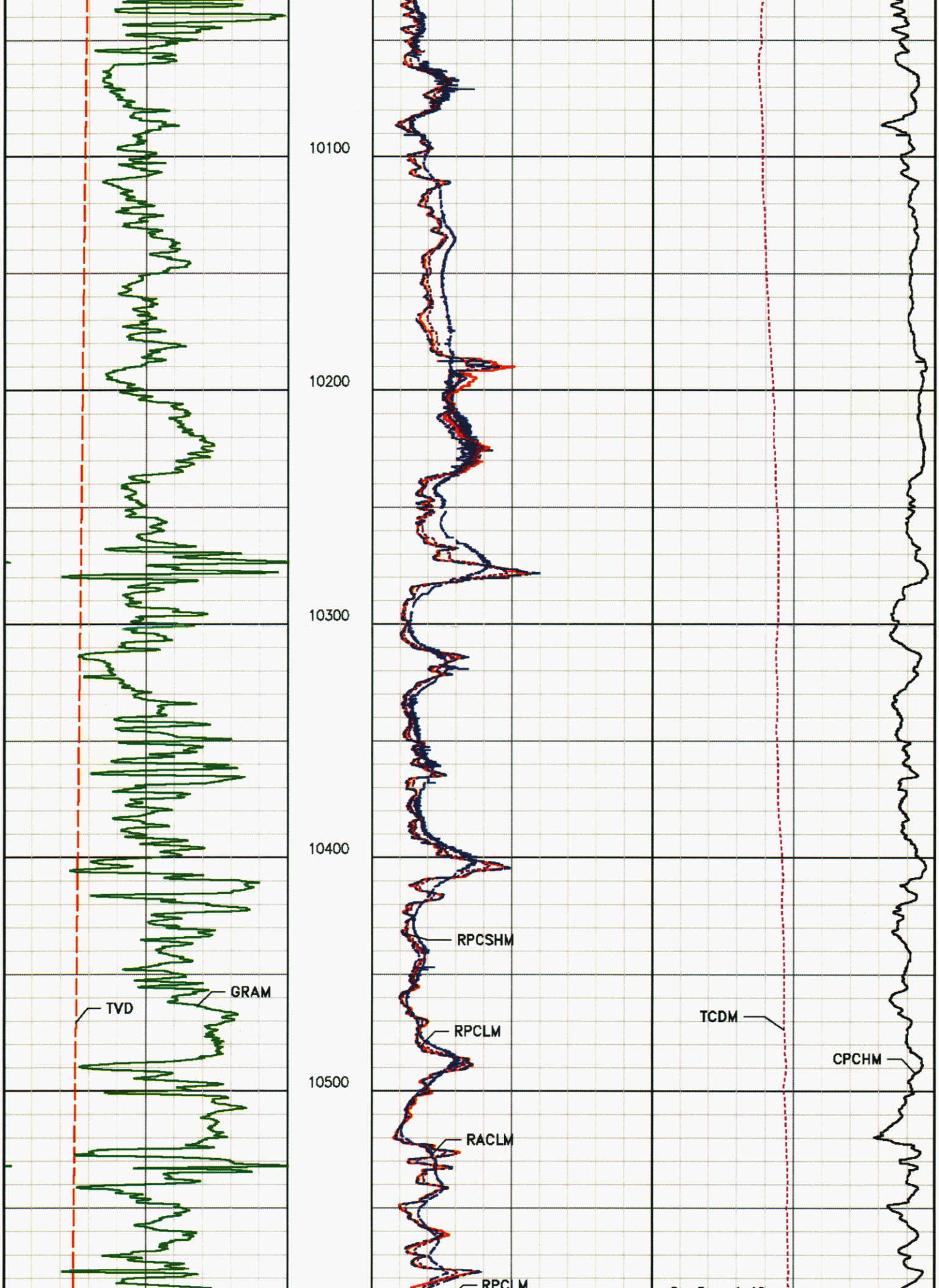

7300
7400
7500
7600
7700
7800
See Remark 7
Run 8 < > Run 9

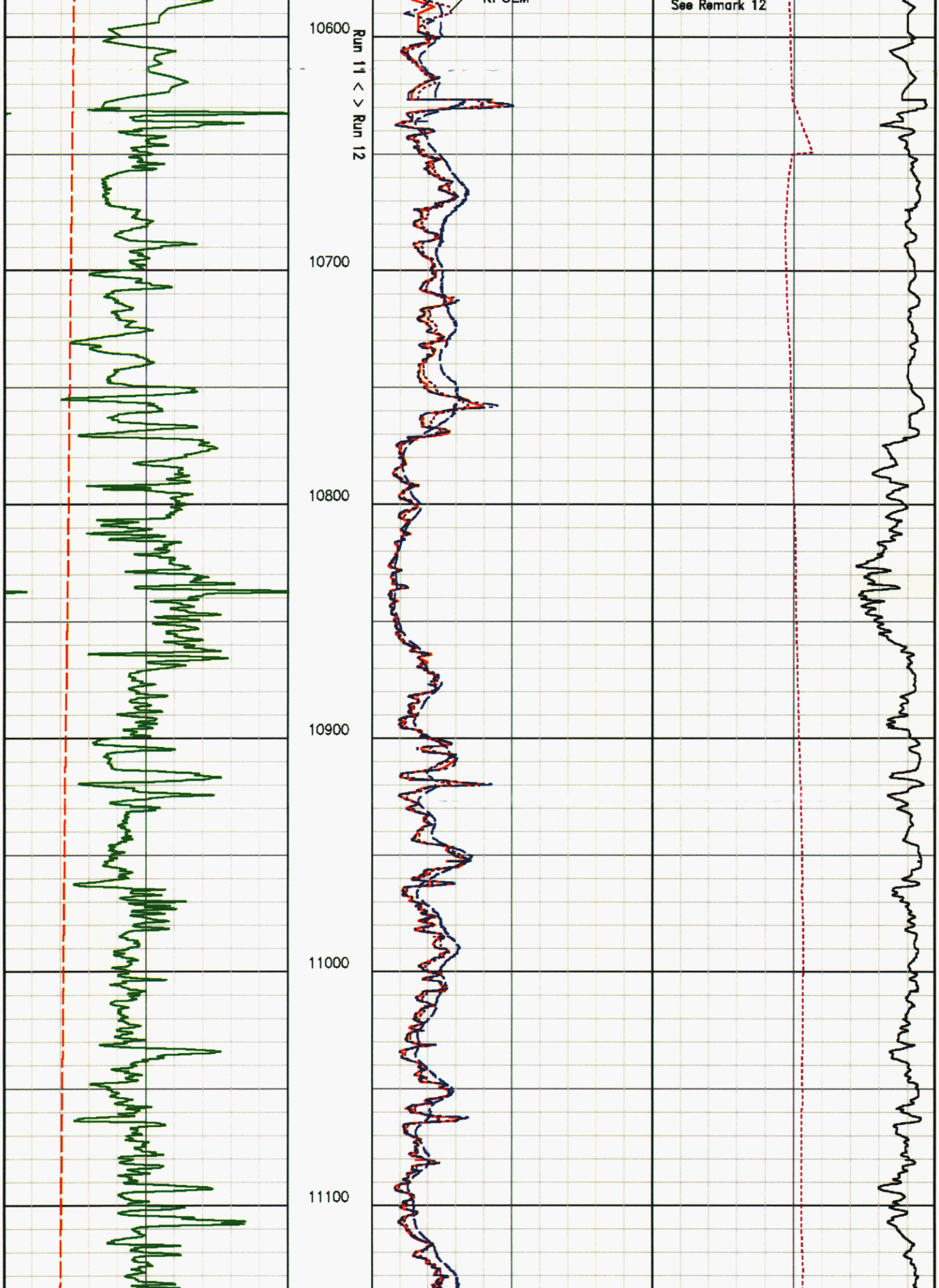

7900
8000
8100
8200
8300

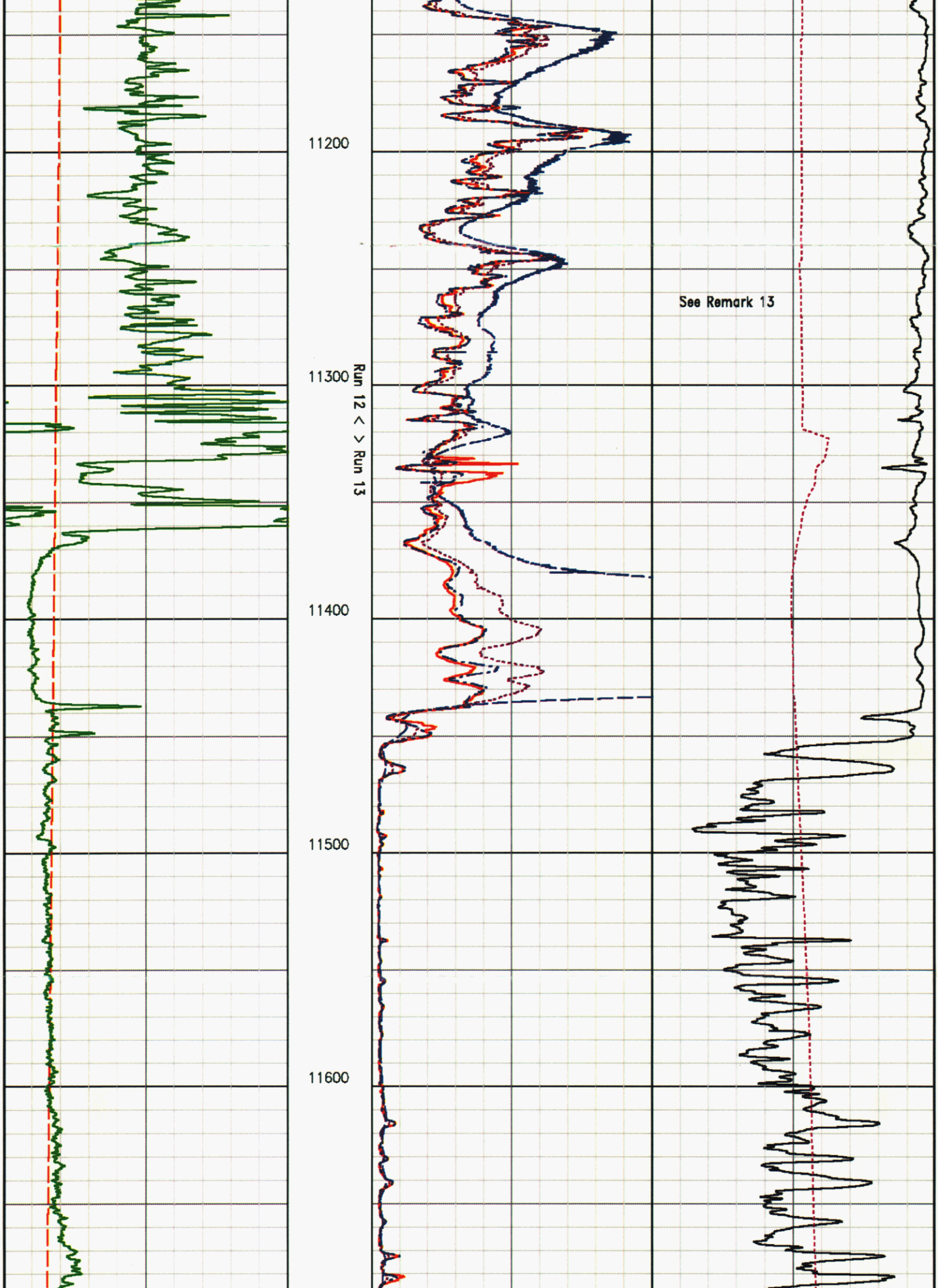

8400
8500
8600
8700
8800
8900

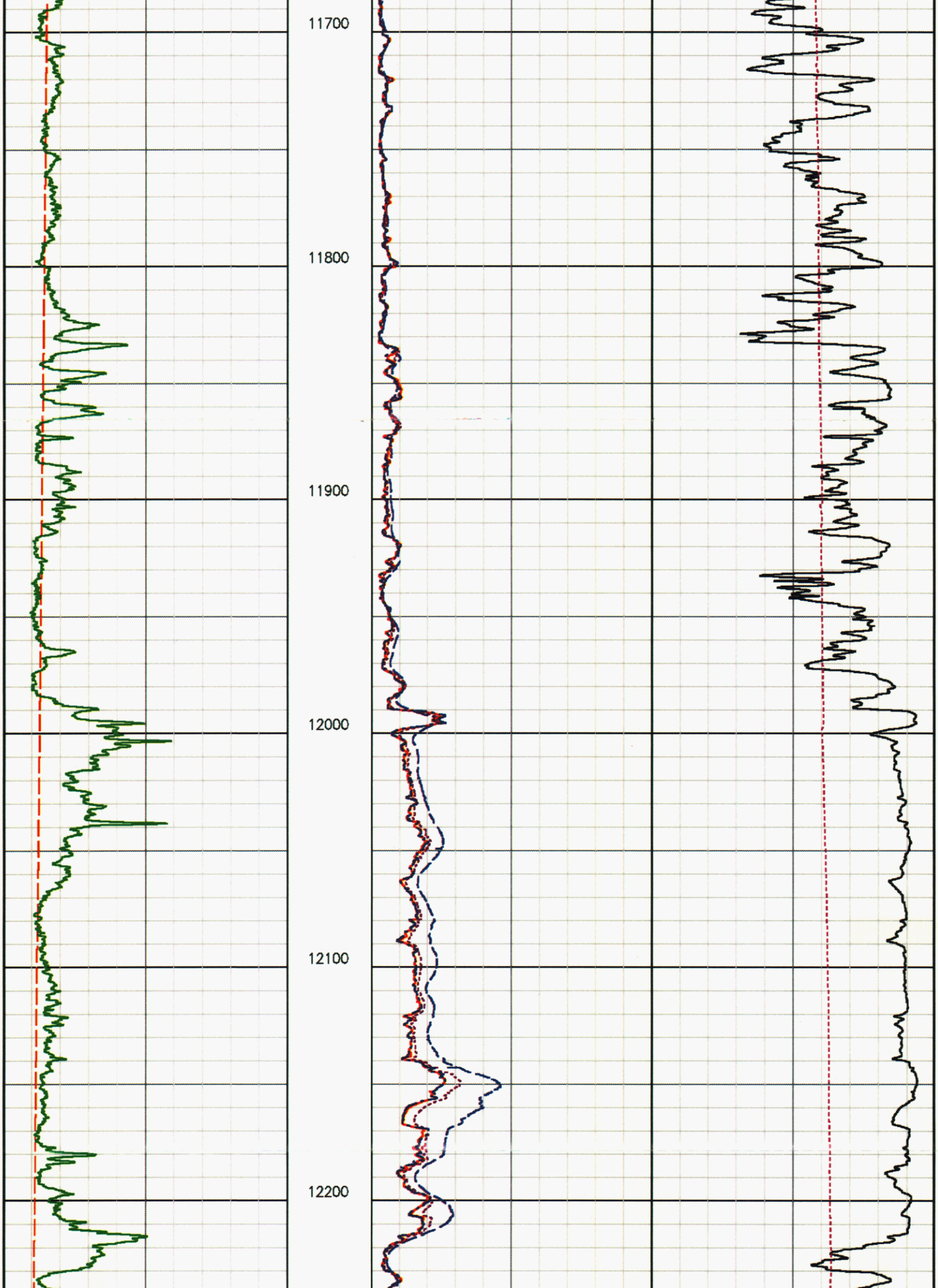

9000
9100
9200
9300
9400

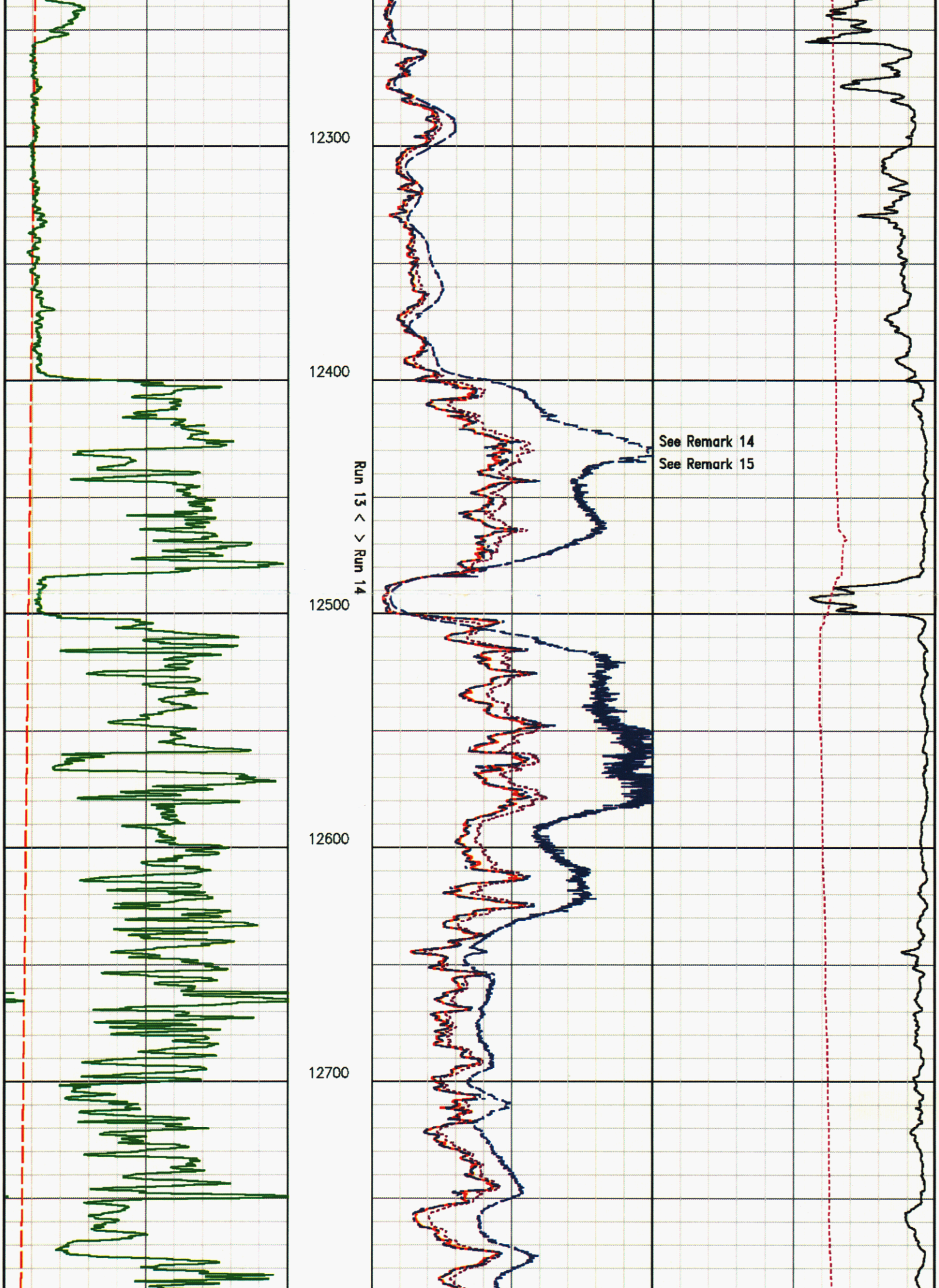

9500
9600
9700
9800
9900
10000
Run 9 < > Run 10
Run 10
<> Run 11
9-5/8"
Casing
See Remark 8
See Remark 9
See Remark 10
See Remark 11

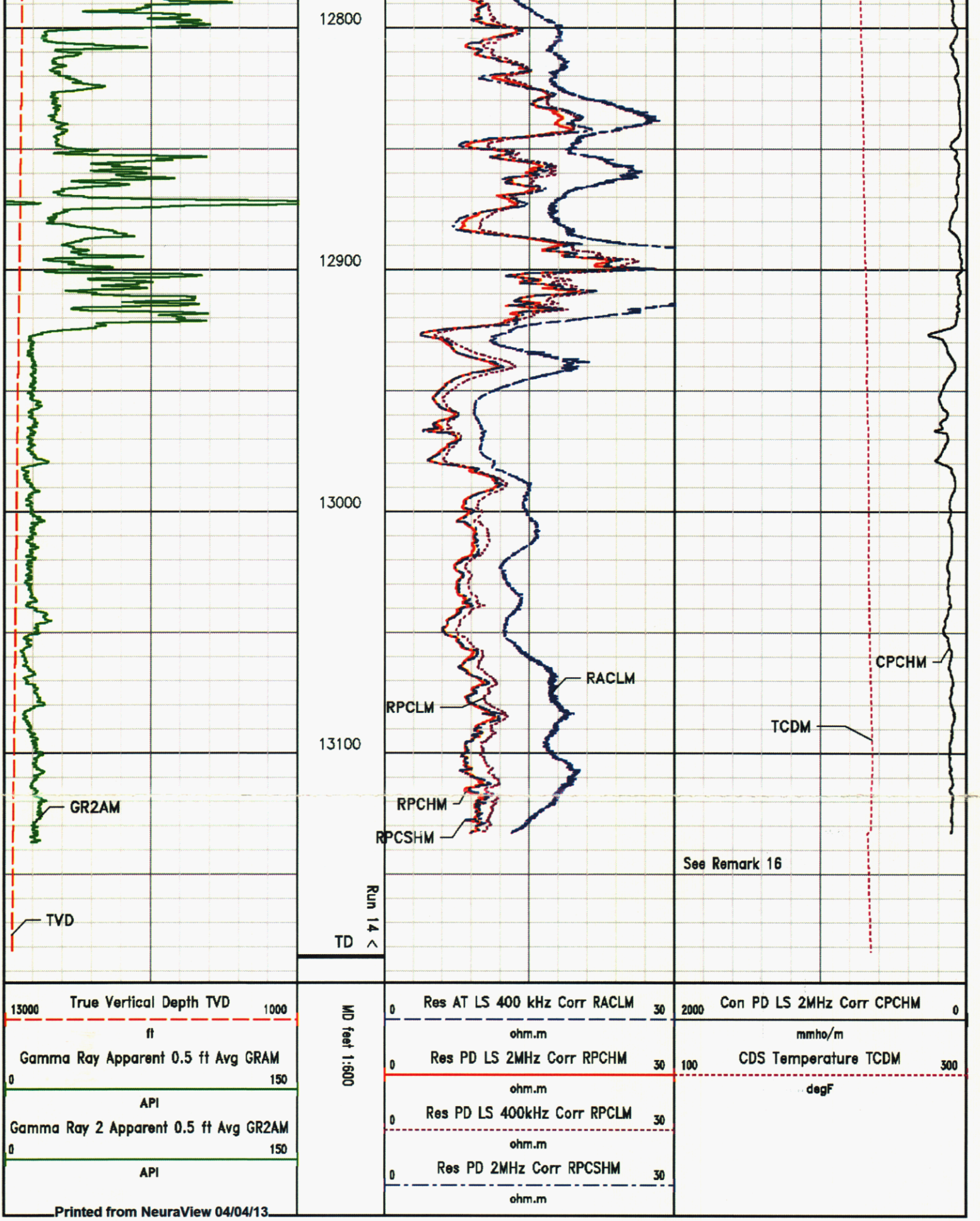

10100
10200
10300
10400
10500
TVD
GRAM
RPCSHM
RPCLM
RACLM
TCDM
CPCHM


See Remark 12
10600
Run 11 < > Run 12
10700
10800
10900
11000
11100


11200
11300
11400
11500
11600
Run 12 < > Run 13
See Remark 13


11700
11800
11900
12000
12100
12200


12300
12400
12500
12600
12700
Run 13 < > Run 14
See Remark 14
See Remark 15



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