

Enclosure 4: Pressure Logs



INTEQ

Company : Beach Petroleum Ltd

Well : Fermat-1

Interval : 71.00 - 3587.39 meters

Created : 09/Jan/2009 5:58:16 PM



PRESSURE DATA PLOT

Rate of Penetration

ROP

50 | 100 | 150 | 200
m/hr

DRILLING EXPONENT

DXC

0.3 3

PRESSURE DATA

Pore Pressure

4 | 8 | 12 | 16 | 20
ppg

Fracture Pressure

4 | 8 | 12 | 16 | 20
ppg

Overburden Gradient

4 | 8 | 12 | 16 | 20
ppg

TEMPERATURE

Temperature Out

20 | 40 | 60 | 80 | 100
degC

GAS

Total Gas

50 | 100 | 150 | 200 | 250
unit

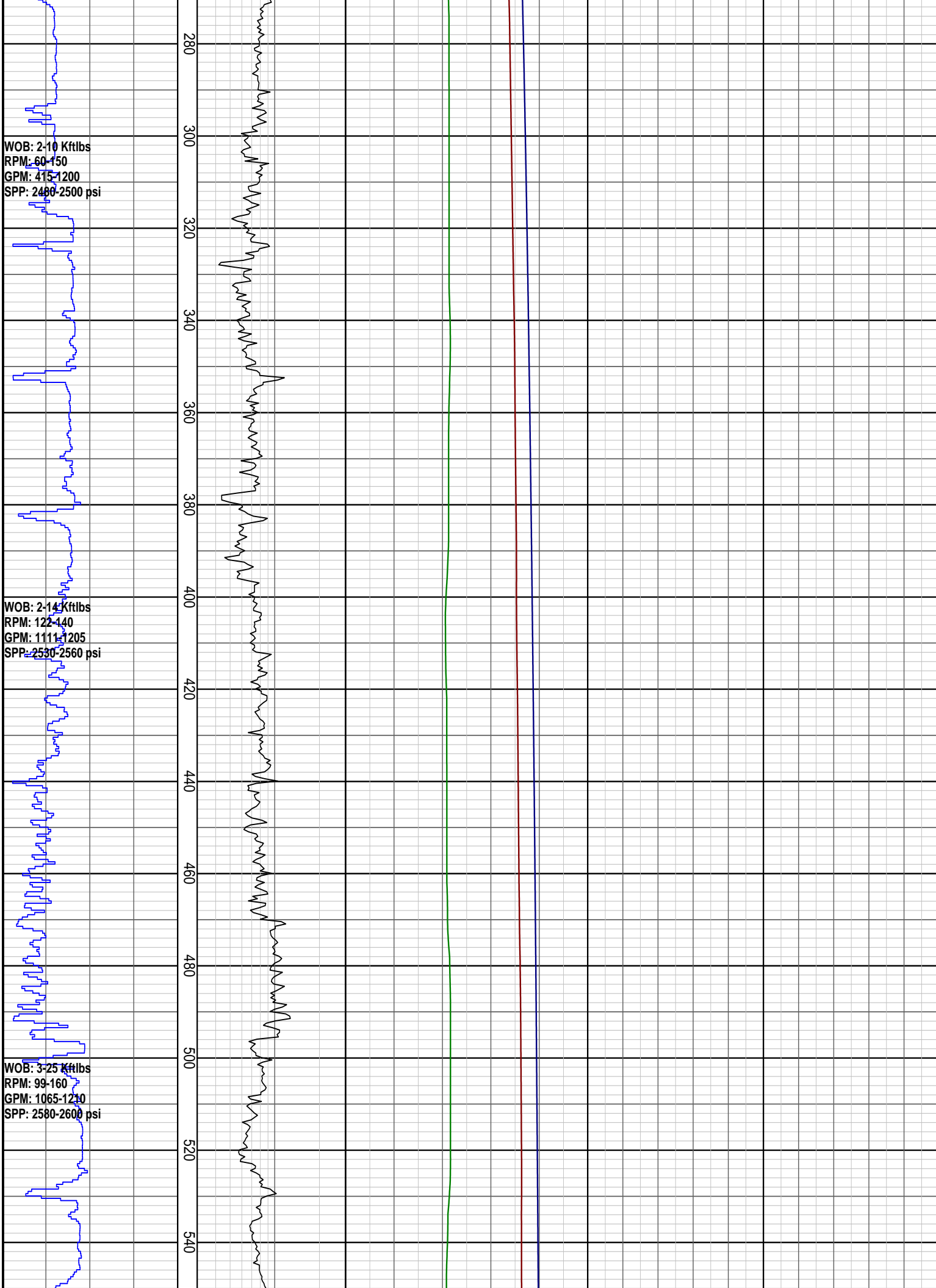
INTERPRETED
LITHOLOGY

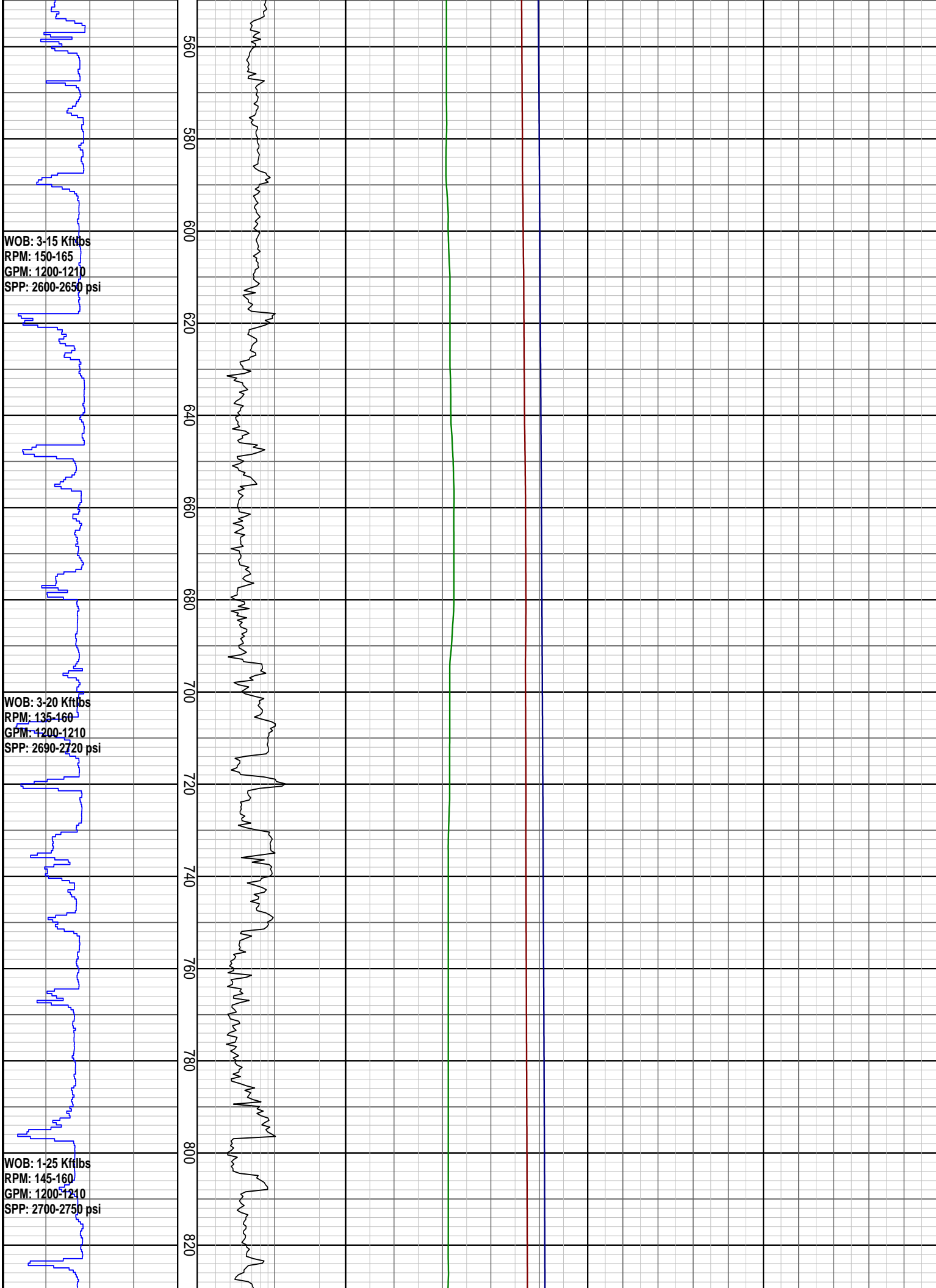
TVD
meters 1:1000

80
100
120
140
160
180
200
220
240
260

WOB: 4-6 Kftlbs
RPM: 19-100
GPM: 335-1000
SPP: 100-900 psi
Set 30"x20" Casing at 116.0 m
14/12/2008

WOB: 2-6 Kftlbs
RPM: 75-150
GPM: 565-1205
SPP: 465-2500 psi





16/12/2008

WOB: 4-25 Kftlbs
RPM: 120-155
GPM: 1200-1210
SPP: 2780-2800 psi

WOB: 4-25 Kftlbs
RPM: 105-155
GPM: 1200-1210
SPP: 2300-2800 psi
Set 13-3/8" Casing at 987.0 m

19/12/2008

20/12/2008

WOB: 1-8 Kftlbs
RPM: 20-177
GPM: 990-1006

840
860
880
900
920
940
960
980
1000
1020
1040
1060
1080
1100

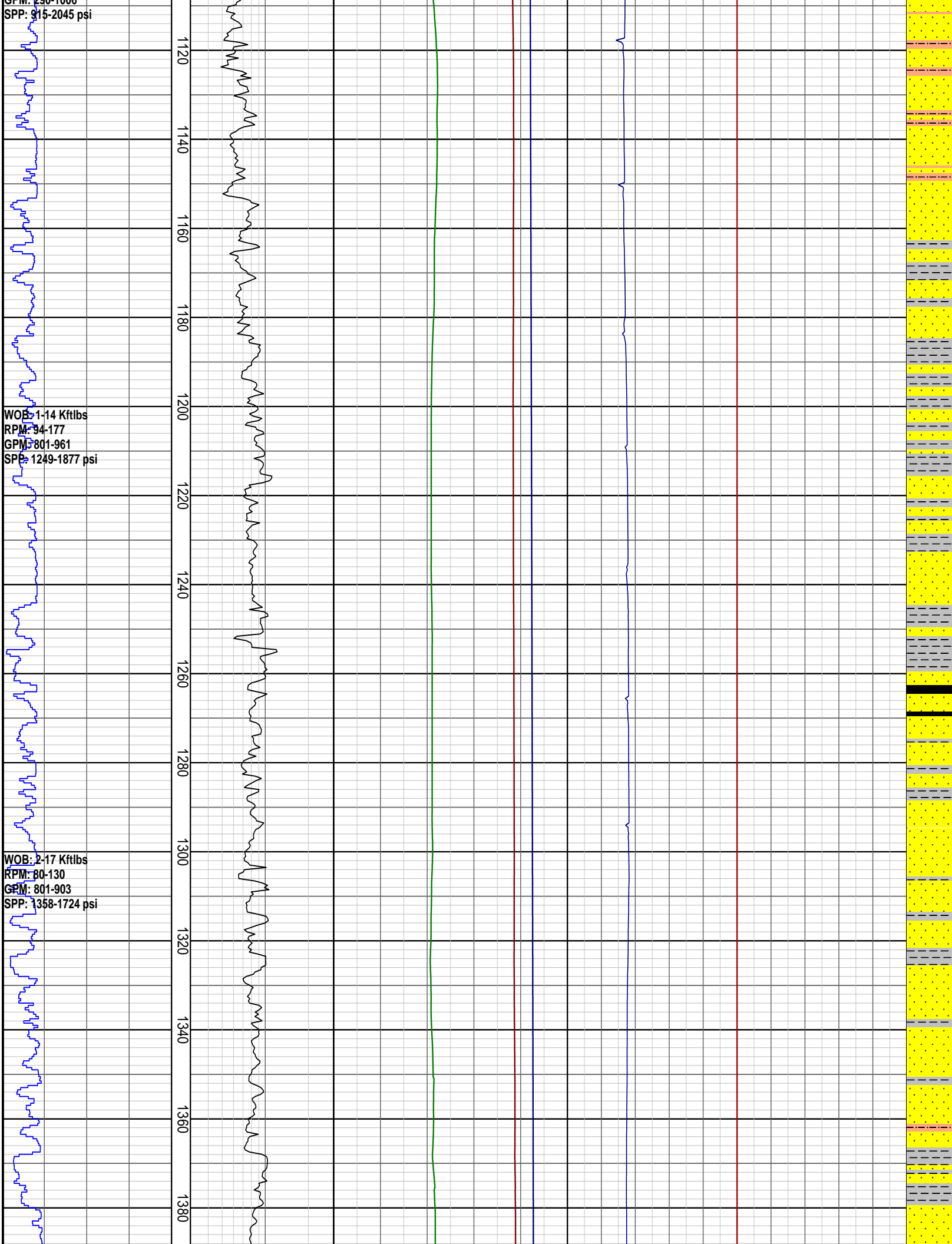
FIT @ 987.0 m with 9.3 ppg
EMW: 15.0 ppg @ 960 psi

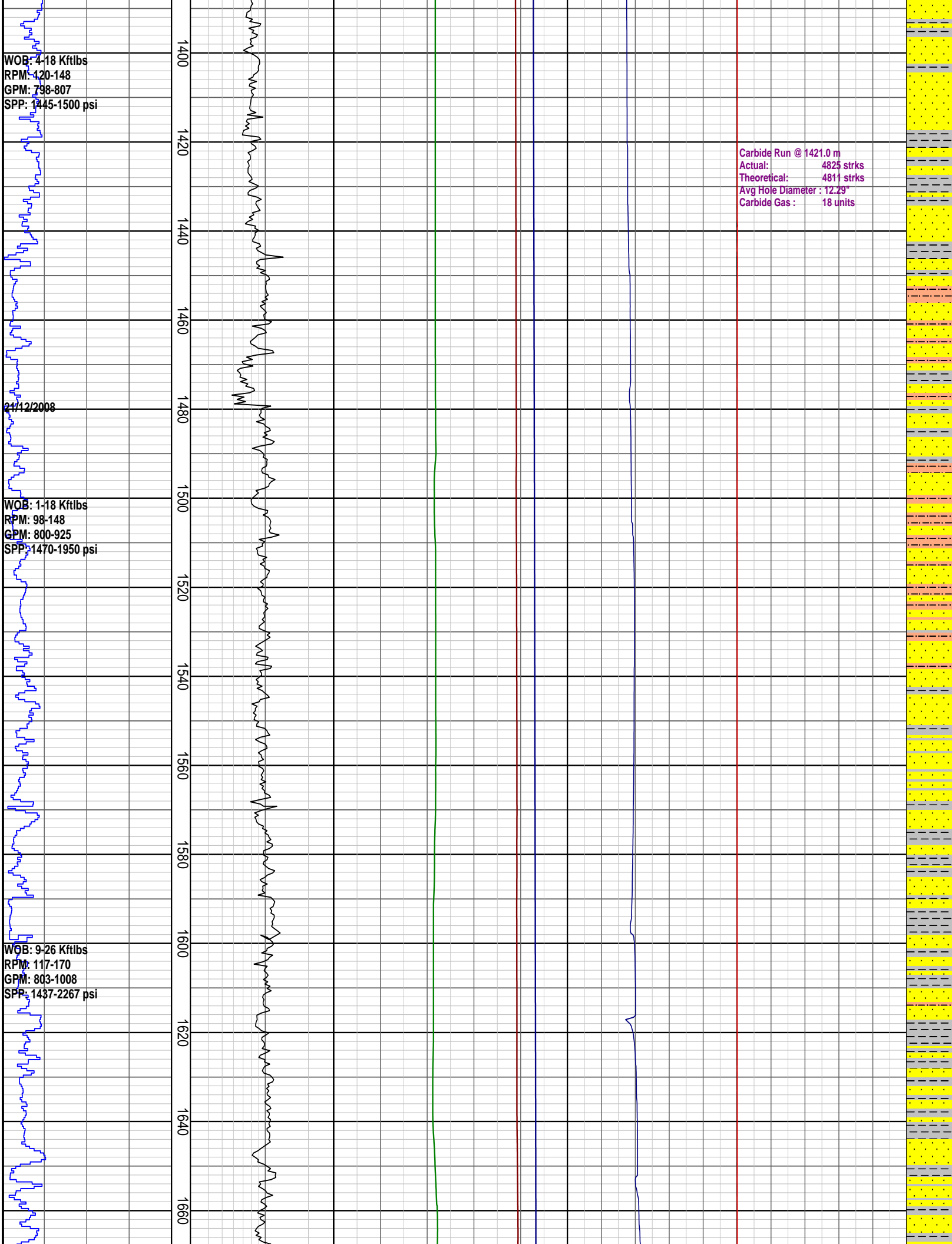


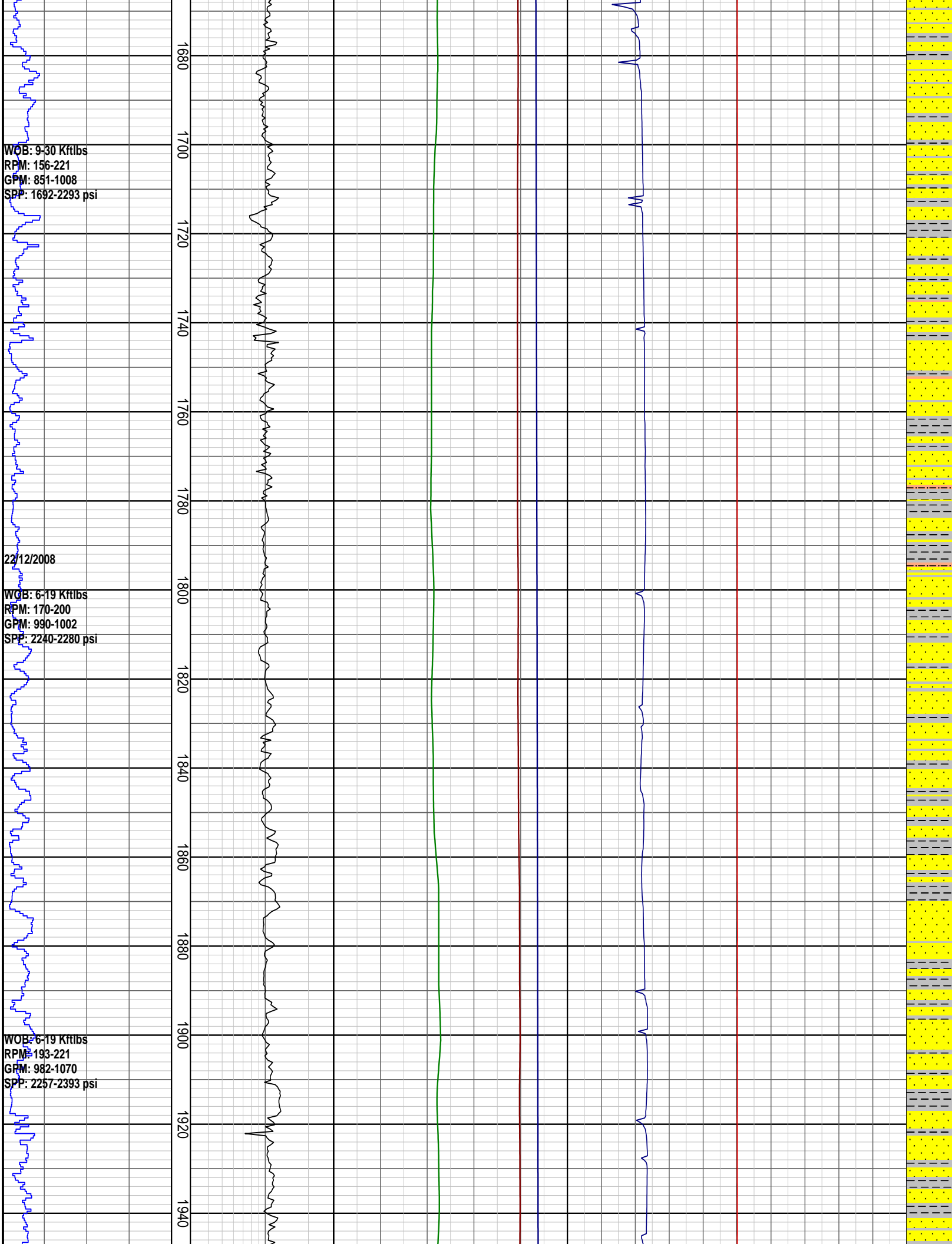
GPM: 230-1000
SPP: 915-2045 psi

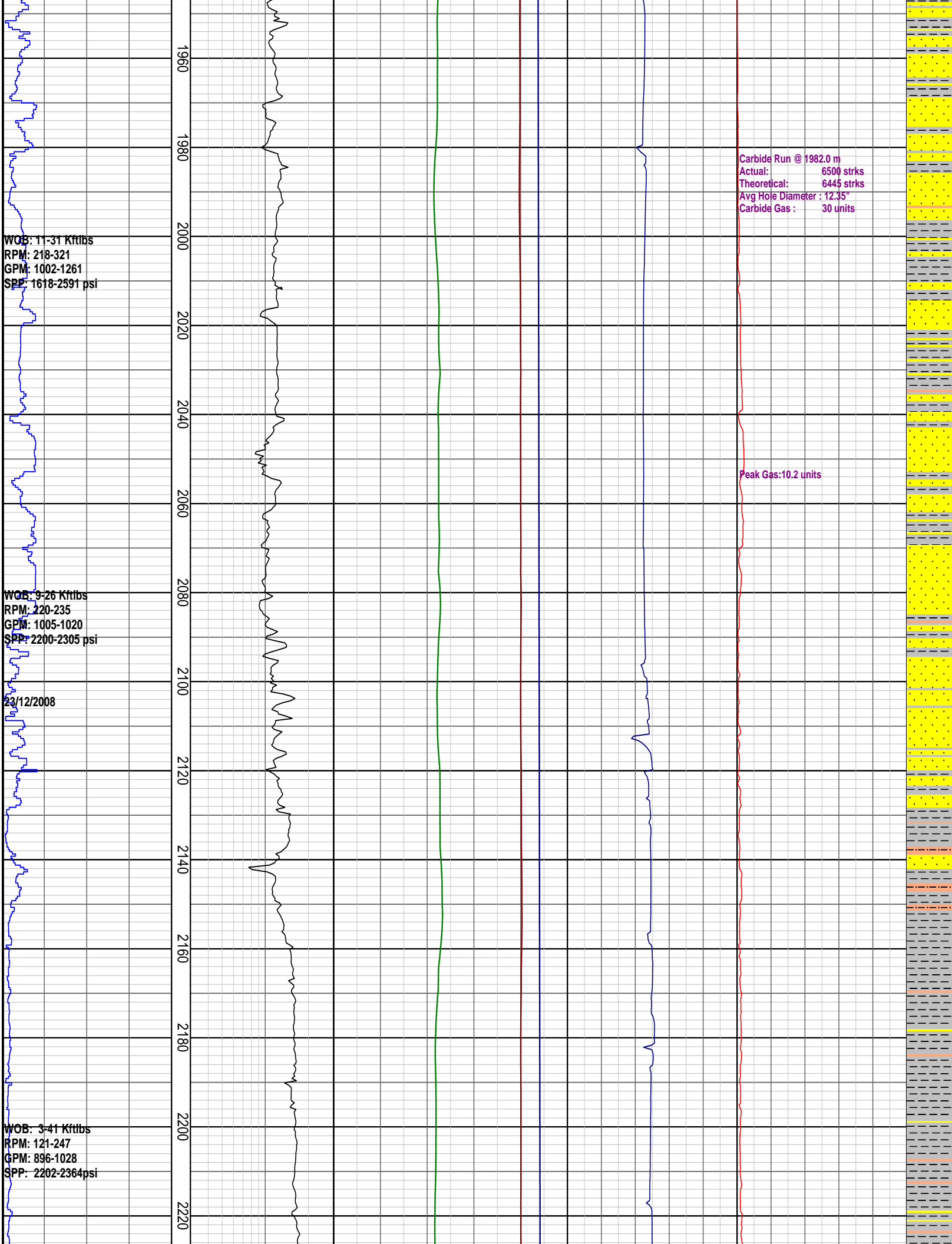
WOB: 1-14 Kftlbs
RPM: 94-177
GPM: 801-961
SPP: 1249-1877 psi

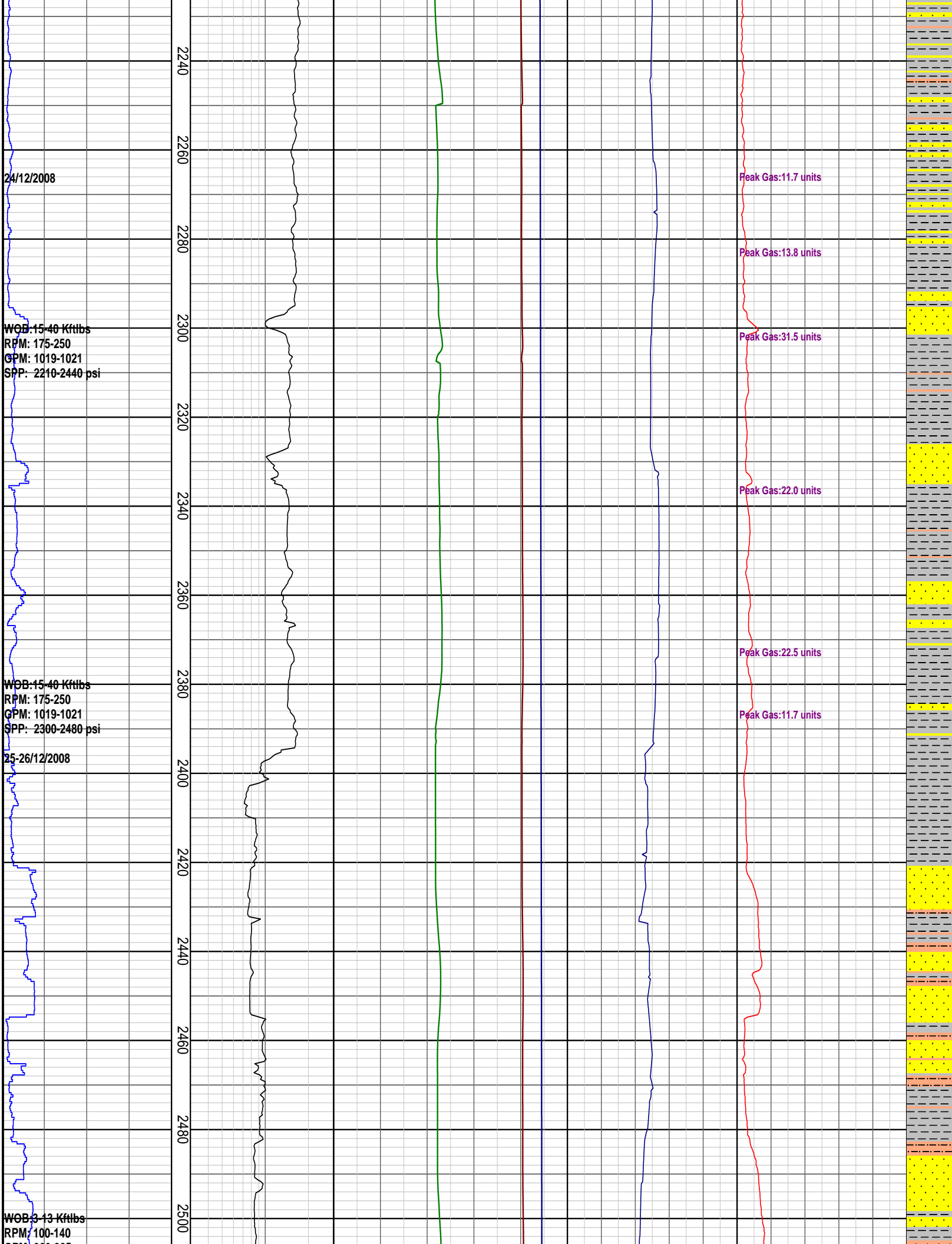
WOB: 2-17 Kftlbs
RPM: 80-130
GPM: 801-903
SPP: 1358-1724 psi









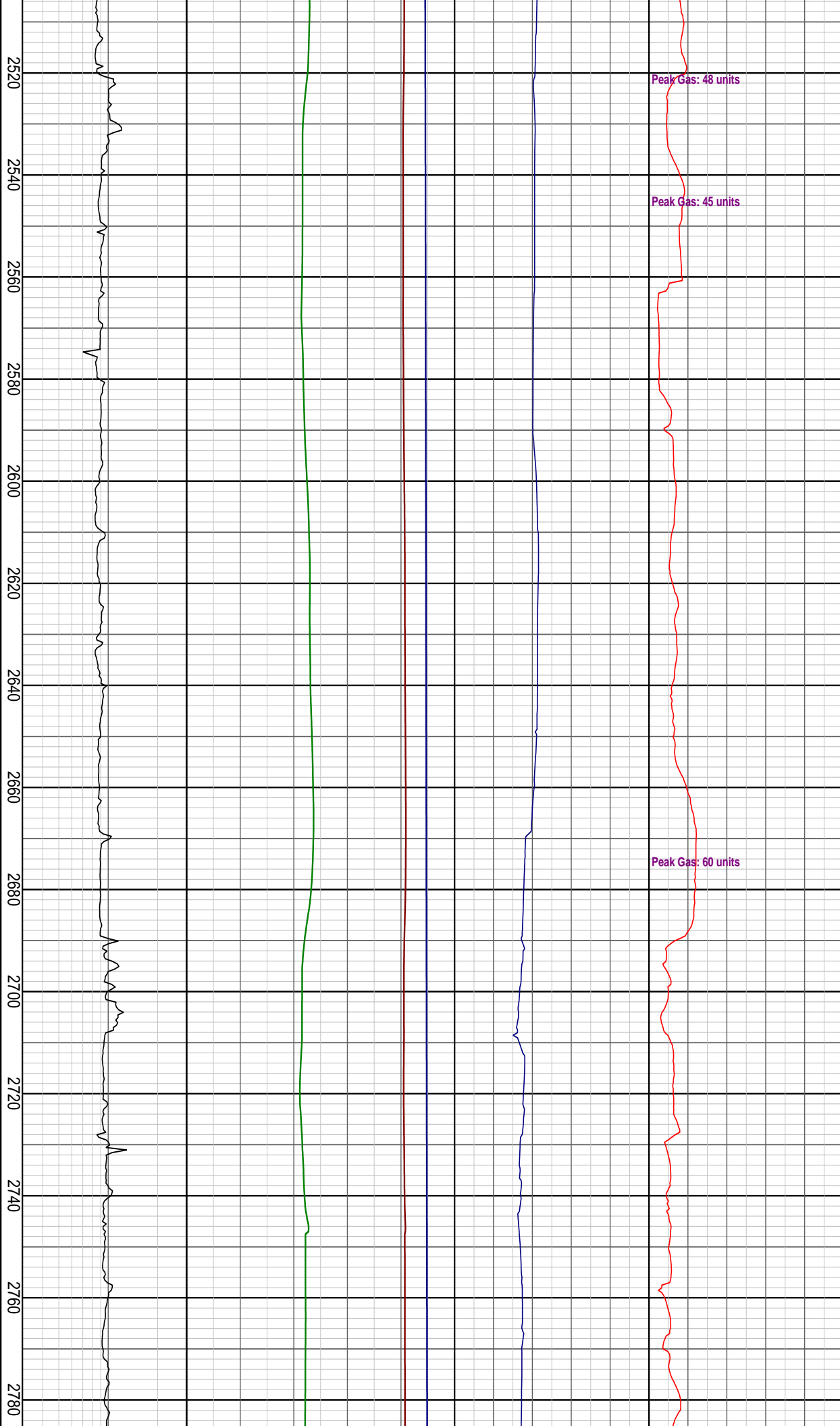


GPM: 900-925
SPP: 2045-2615 psi

WOB: 10-15 Kftlbs
RPM: 100-180
GPM: 900-905
SPP: 2105-2425 psi

27/12/2008

WOB: 10-20 Kftlbs
RPM: 100-180
GPM: 895-900
SPP: 2150-2385 psi



Set 9 5/8" Casing at 2800.3 m
WOB: 14-23 Kftlbs
RPM: 0-81
GPM: 897-902
SPP: 2028-2550 psi

WOB: 1-14 Kftlbs
RPM: 15-139
GPM: 189-901
SPP: 700-2725 psi

WOB: 10-20 Kftlbs
RPM: 70-78
GPM: 705-720
SPP: 2675-2780 psi
04/01/2009

FIT @ 2800.3 m with 10.3 ppg
EMW: 16.0 ppg @ 2720 psi

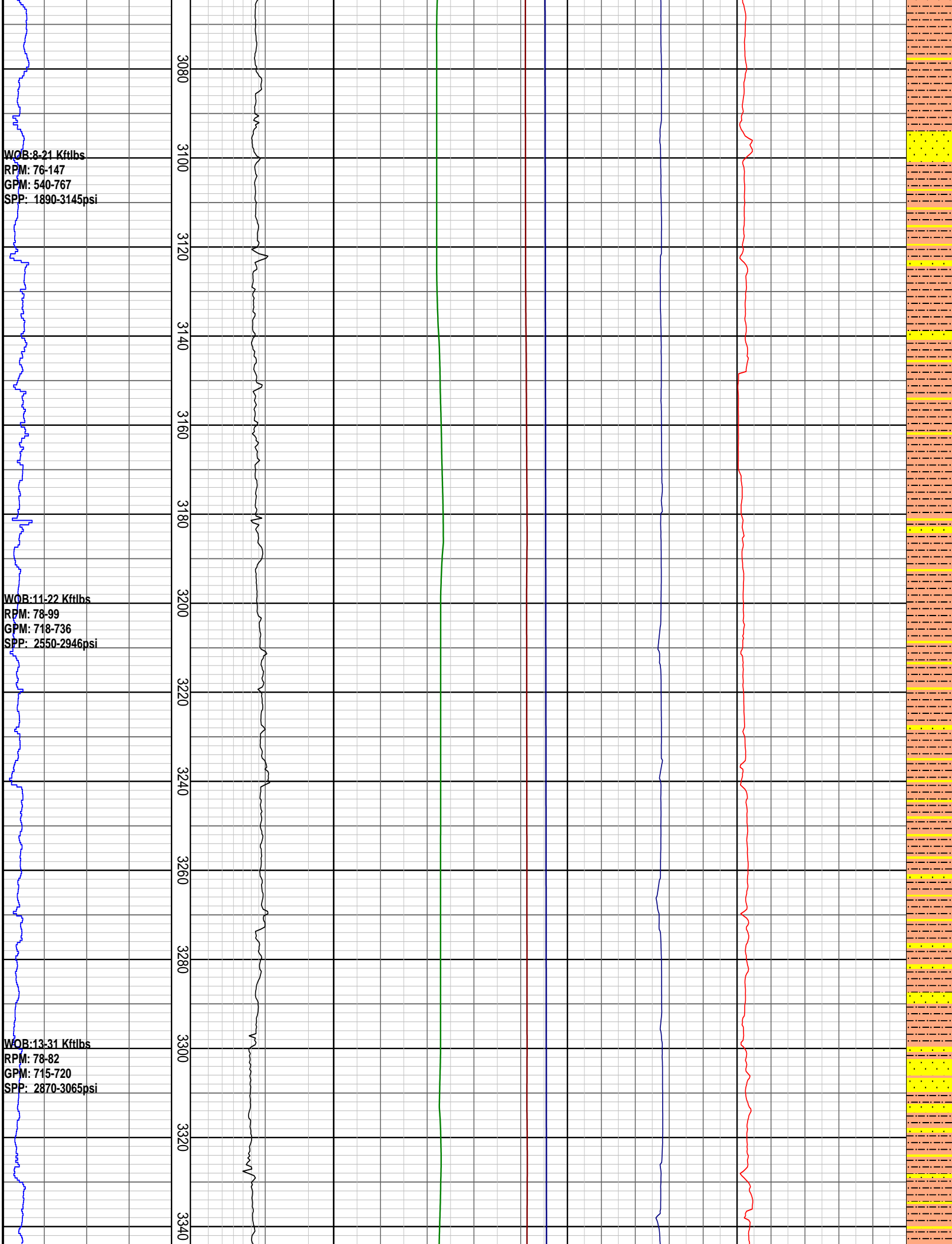
Peak Gas: 105 units

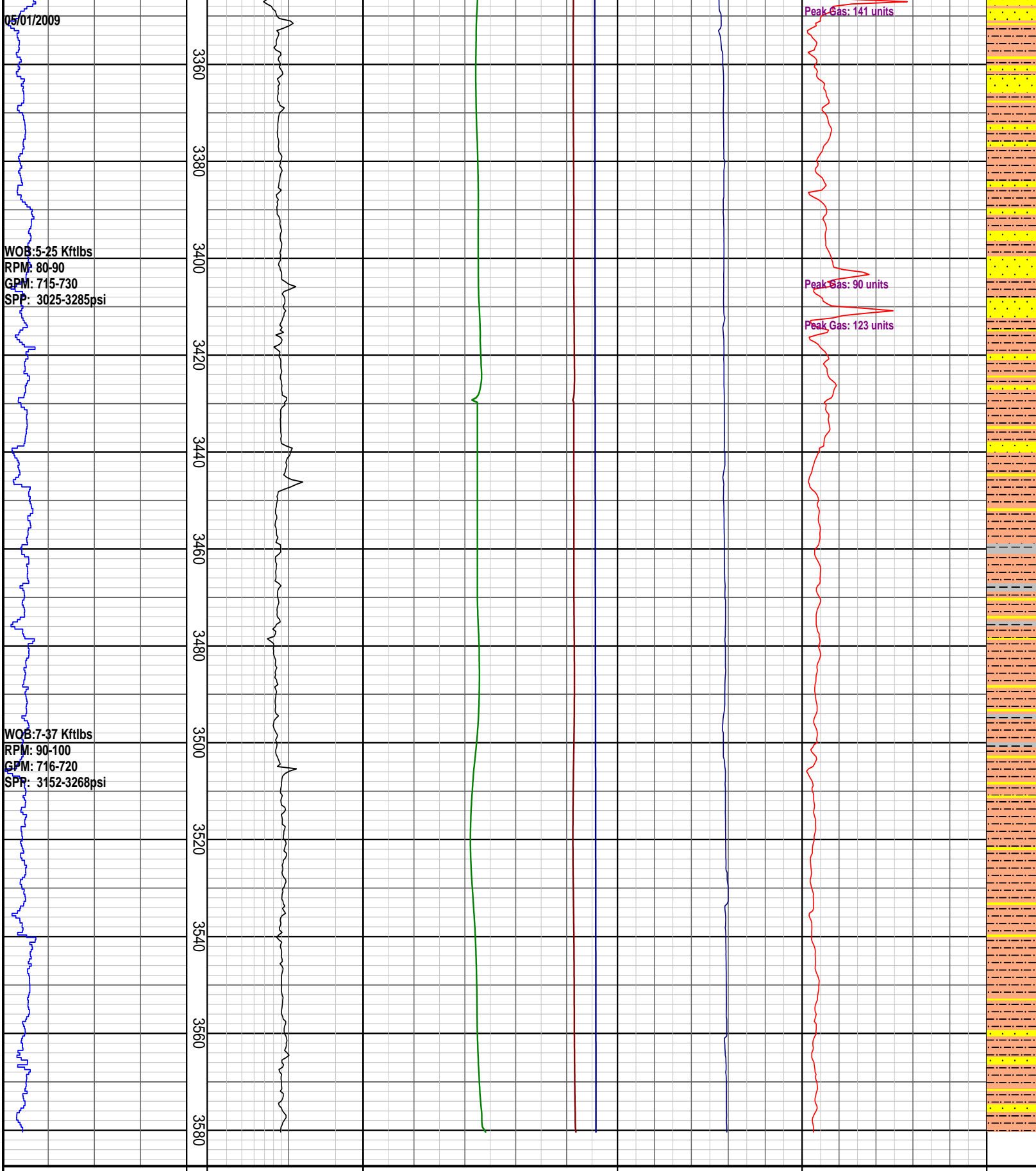
Peak Gas: 113 units

Peak Gas: 154 units

Peak Gas: 63 units

Peak Gas: 117 units





PRESSURE DATA PLOT					
Rate of Penetration ROP	DRILLING EXPONENT DXC	PRESSURE DATA Pore Pressure Fracture Pressure		TEMPERATURE Temperature Out	GAS Total Gas
50 100 150 200 m/hr	0.3 3	4 8 12 16 20 ppg		20 40 60 80 100 degC	50 100 150 200 250 unit
		4 8 12 16 20			

INTERPRETED LITHOLOGY

			ppg												
			Overburden Gradient												
						4	8	12			16	20			
						ppg									