



INTEQ

Company : Apache
Well : Speke South-1
Interval : 91.00 - 3020.17 meters
Created : 18/Apr/2008 6:58:04 AM

DRILLING DATA PLOT

ROP (m/hr)	MD meters :1:1000	FLOW IN (gpm)	RPM Avg	TORQUE Max (kft-lb)	DXC	INTERPRETED LITHOLOGY
200 175 150 125 100 75 50 25		300 600 900 1200 1500	70 140 210 280 350	5 10 15 20 25	0.2	
		STANDPIPE (psi)	WOB Avg (klbs)	TORQUE Avg (kft-lb)		
		1000 2000 3000 4000 5000	16 32 48 64 80	5 10 15 20 25		
		VDEPTH				

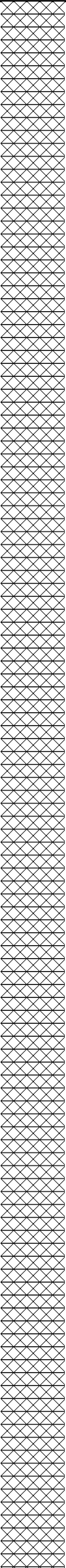
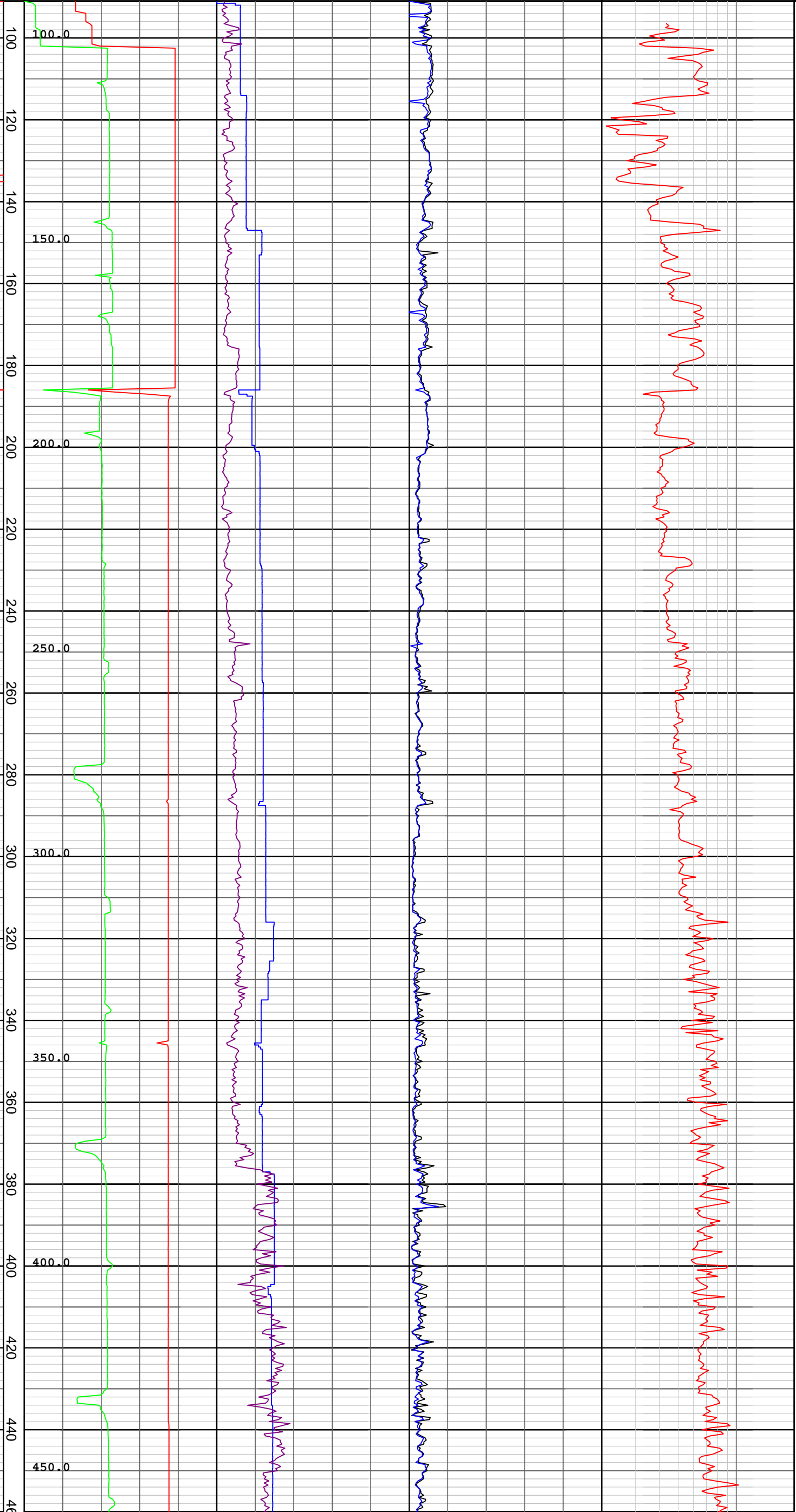
1RR 660 mm (26")
Smith MZ1716
Type: Rock
Jets: 4x18
Depth in: 91.1 m
Depth Out: 185.0 m
Drilled 94.0 m in 2.5 hrs
Grade: 0-0-A-E-I-NO-TD

WOB: 2-10 klbf
RPM: 42-82
GPM: 480-1050
SPP: 290-2300 psi

07/04/2008
NB2 406 mm (16")
Hughes GXCV
Type: Mill Tooth
Jets: 4x20
Depth in: 185.0 m
Depth Out: 903.0 m
Drilled 718.0 m in 22 hrs
Grade: 1-1-WT-A-0-I-NO-TD

WOB: 2-13 klbf
RPM: 71-89
GPM: 1110-1120
SPP: 1285-2190 psi

WOB: 4-26 klbf
RPM: 72-105
GPM: 1035-1120
SPP: 1325-2270 psi



WOB: 3-30 klbf
RPM: 74-105
GPM: 1120-1195
SPP: 1370-2465 psi

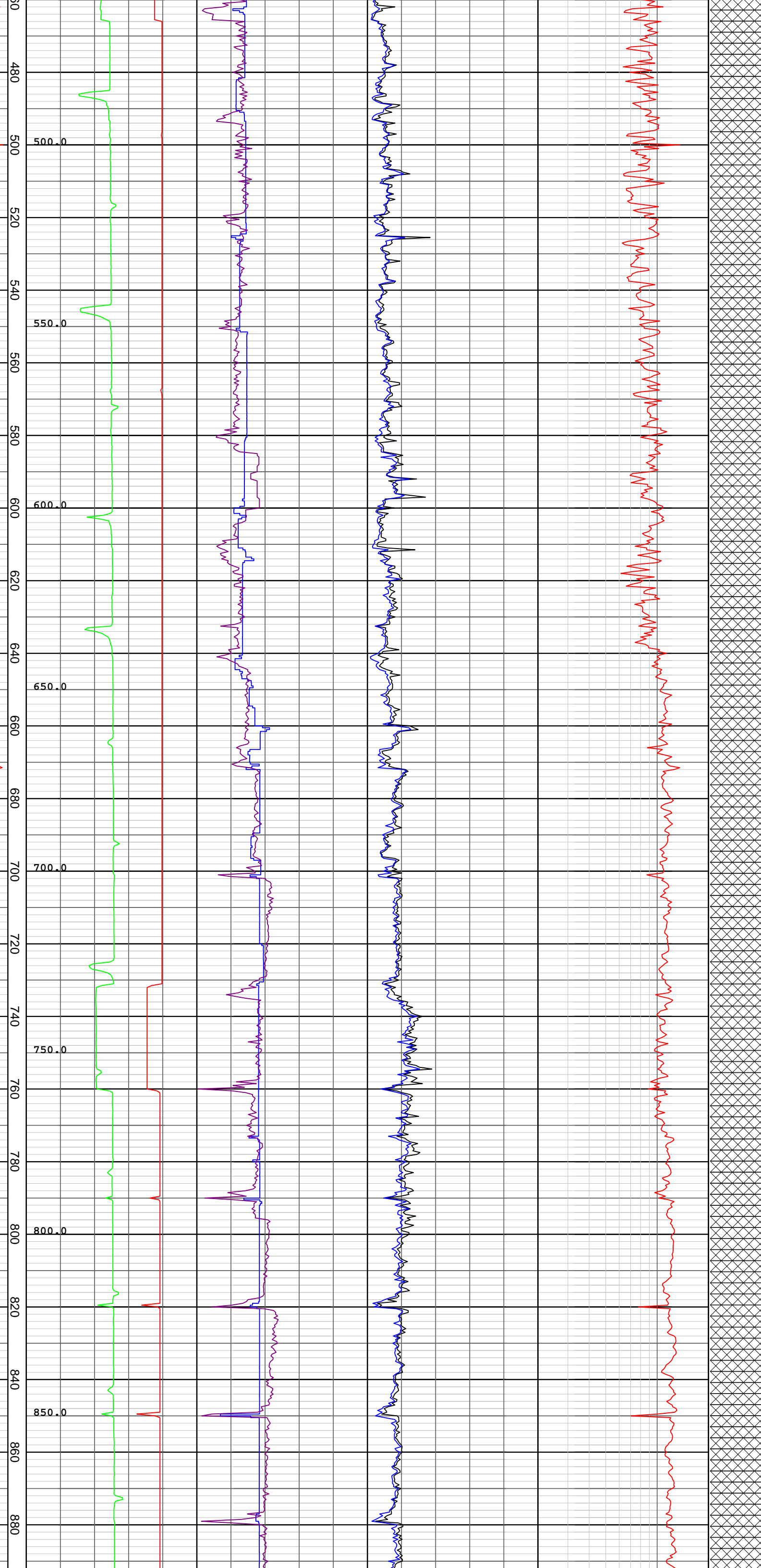
WOB: 9-29 klbf
RPM: 71-104
GPM: 1180-1195
SPP: 1580-2690 psi

08/04/2008
WOB: 9-30 klbf
RPM: 76-149
GPM: 1190-1195
SPP: 1715-2725 psi

WOB: 1-35 klbf
RPM: 96-137
GPM: 1060-1194
SPP: 1838-2580 psi

Set 20" x 13-3/8" Csg @
896.3 mMDRT

NB3 311 mm (12 1/4")
Smith
Type: XP-CPS



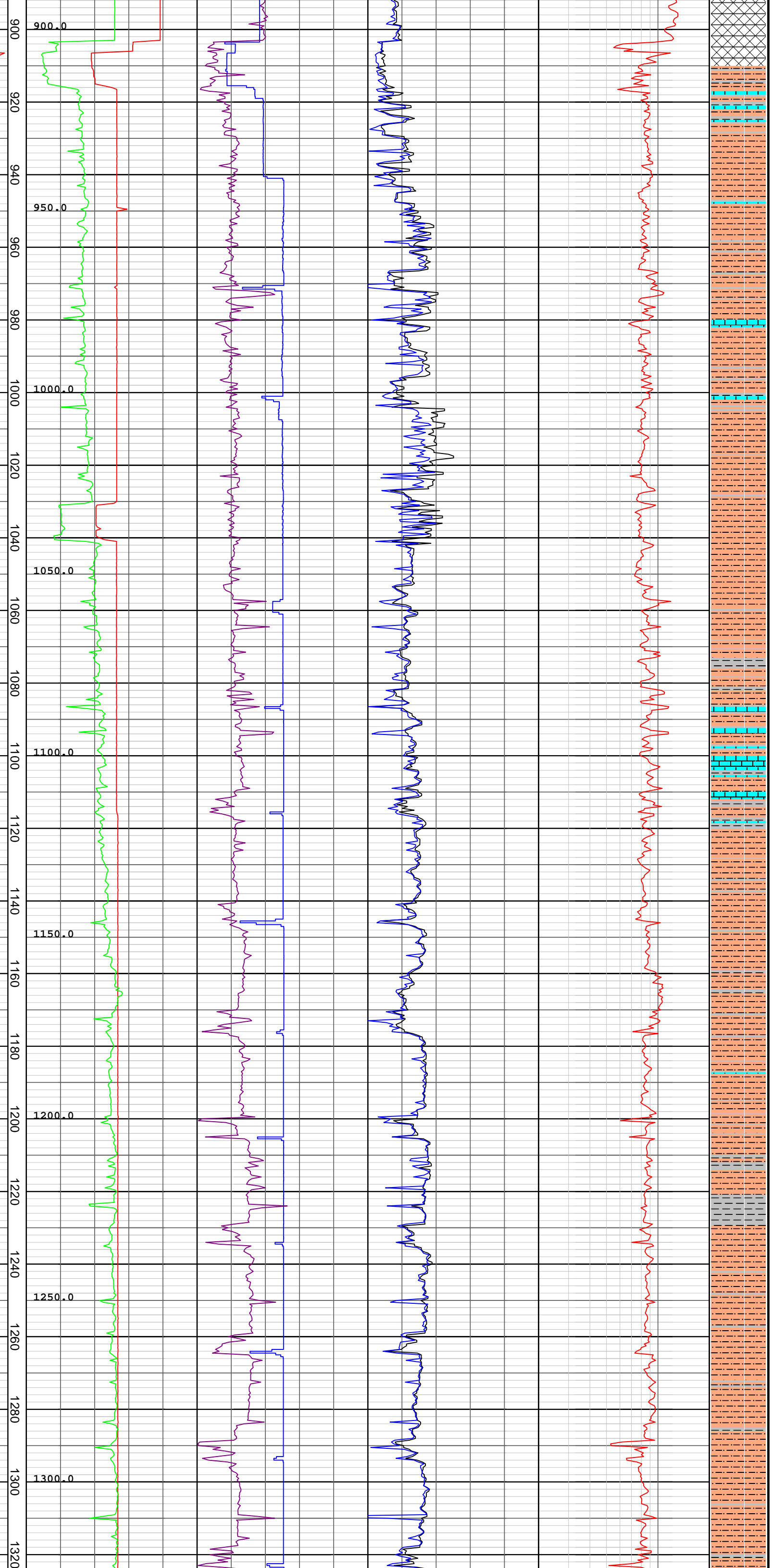
Jets: No Jets
Depth in: 903.0 m
Depth Out: 906.0 m
Drilled 3.0 m in 0.6 hrs
Grade: 1-1-D-I-B-G-02-R
NB4 216 mm (8 1/2")
Hughes
Type: HC6052
Jets: 2x16 3x15
Depth in: 906.0 m
Depth Out: 2940.0 m
Drilled 2034 m in 38.1 hrs
Grade: 8-8-RO-A-XI-CT-PR

WOB: 8-20 kbf
RPM: 58-177
GPM: 570-885
SPP: 1170-2525 psi

WOB: 11-22 kbf
RPM: 132-177
GPM: 611-796
SPP: 1500-3037 psi

WOB: 0-27 kbf
RPM: 88-177
GPM: 796-800
SPP: 2586-3513 psi

WOB: 15-18 kbf
RPM: 108-177
GPM: 802-807
SPP: 2534-3391 psi

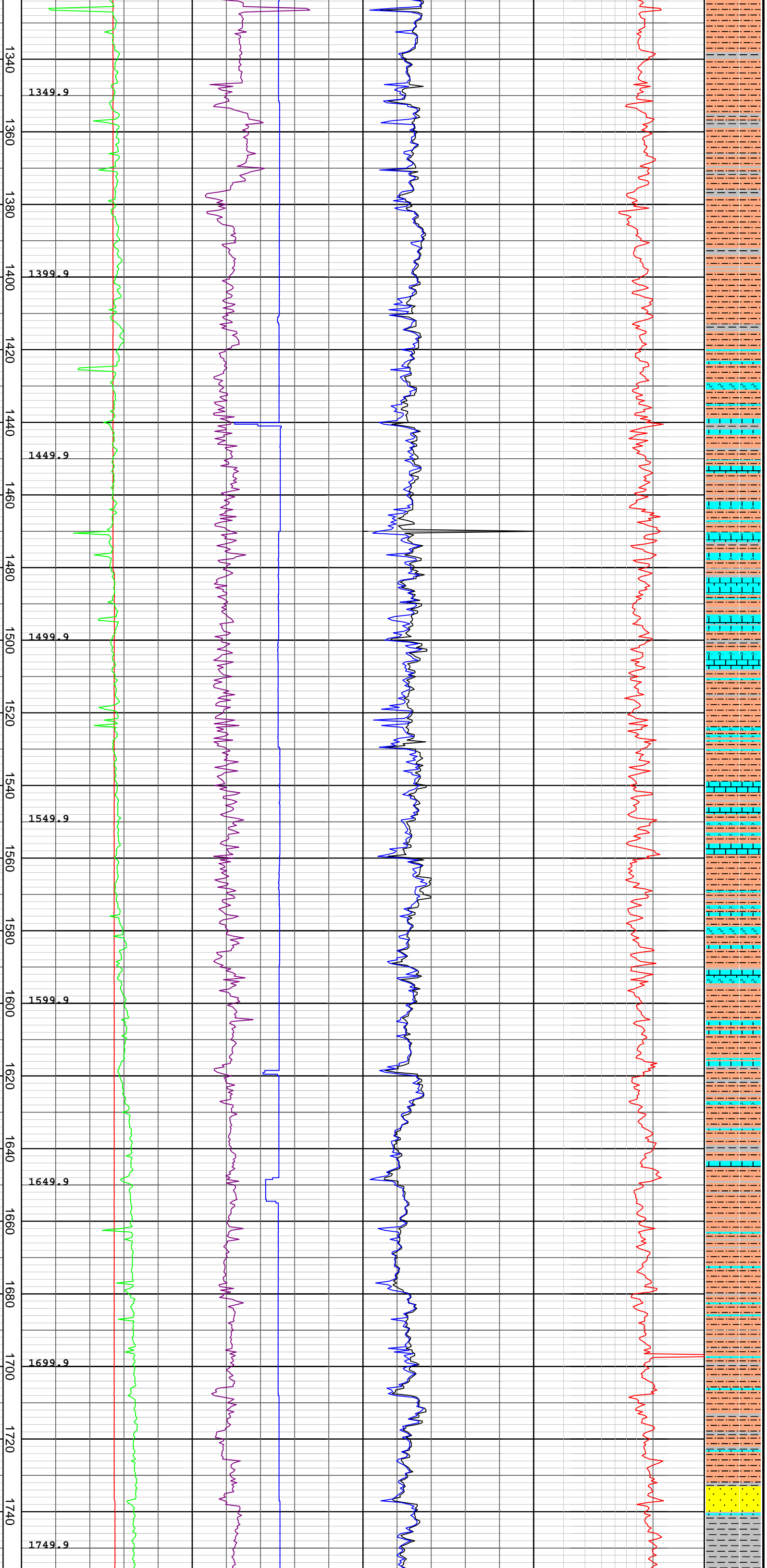


WOB: 16-20 kbf
RPM: 143-179
GPM: 801-806
SPP: 1494-3645 psi

WOB: 15-20 kbf
RPM: 88-183
GPM: 802-818
SPP: 2225-3695 psi

WOB: 17-20 kbf
RPM: 175-180
GPM: 812-818
SPP: 2833-3768 psi

WOB: 16-20 kbf
RPM: 145-178
GPM: 812-817
SPP: 3060-4030 psi



1340
1349.9

1360

1380

1400
1399.9

1420

1440
1449.9

1460

1480

1500
1499.9

1520

1540
1549.9

1560

1580

1600
1599.9

1620

1640
1649.9

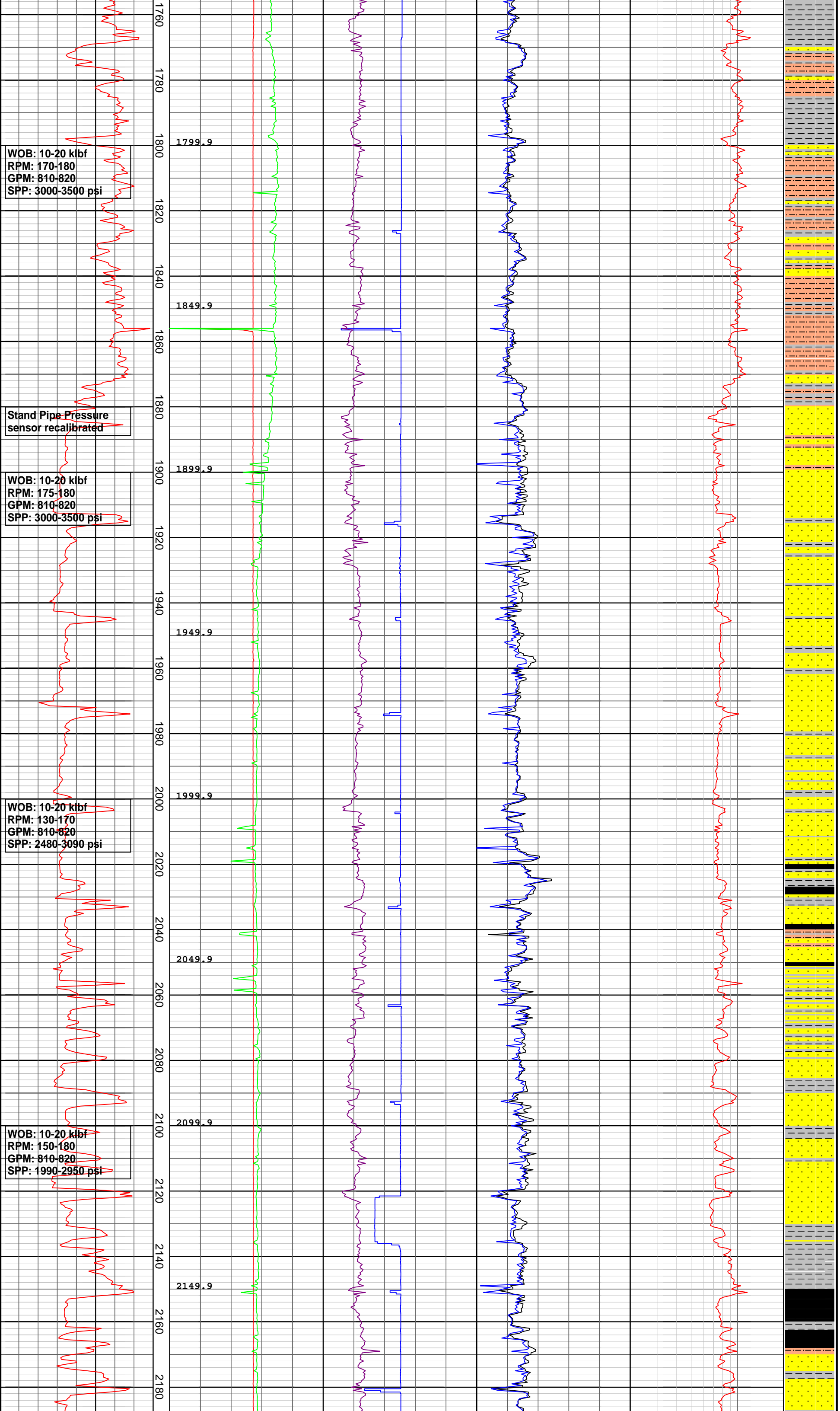
1660

1680

1700
1699.9

1720

1740
1749.9



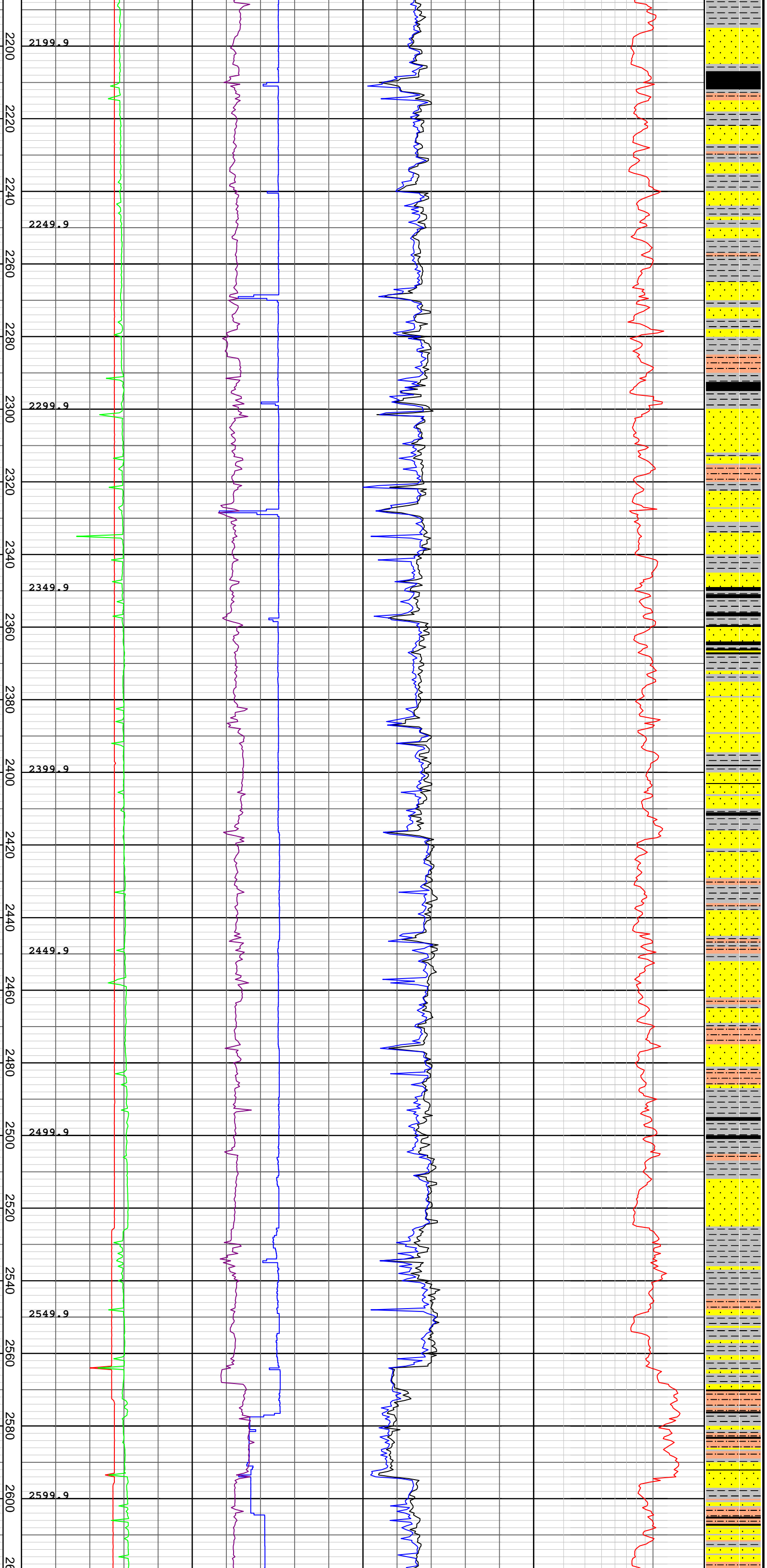
WOB: 10-22 kbf
RPM: 95-175
GPM: 810-820
SPP: 2320-2980 psi

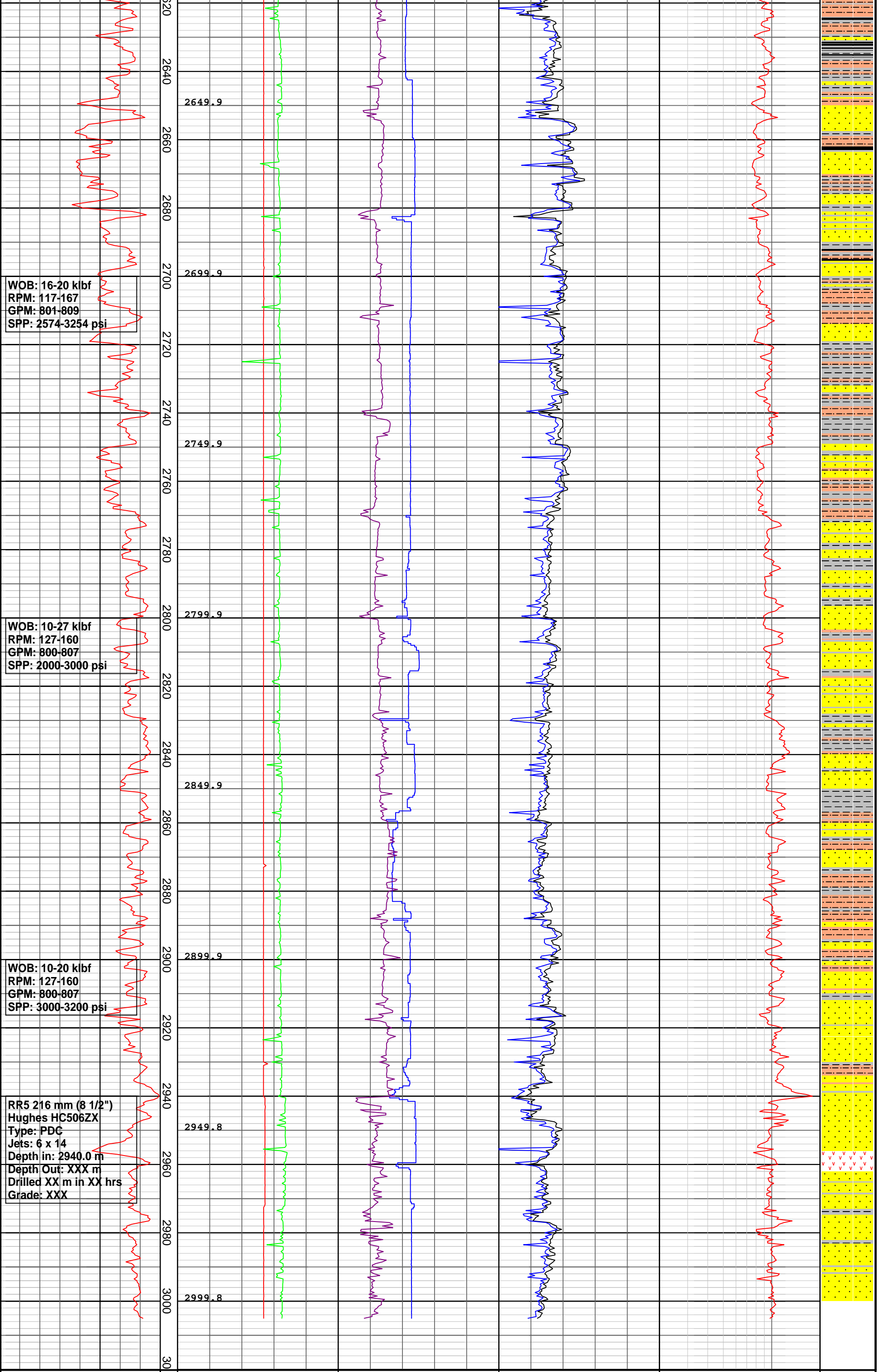
WOB: 16-20 kbf
RPM: 94-178
GPM: 814-818
SPP: 2481-3000 psi

WOB: 16-20 kbf
RPM: 55-178
GPM: 812-827
SPP: 1609-3020 psi

WOB: 16-20 kbf
RPM: 176-180
GPM: 814-820
SPP: 2536-3135 psi

WOB: 18-20 kbf
RPM: 95-180
GPM: 602-818
SPP: 2237-3141 psi





DRILLING DATA PLOT

ROP (m/hr)	FLOW IN (gpm)	RPM Avg	TORQUE Max (kft-lb)	DXC	INTERPRETED LITHOLOGY
200 175 150 125 100 75 50 25	300 600 900 1200 1500	70 140 210 280 350	5 10 15 20 25	0.2	2
MD meters 1:10	STANDPIPE (psi)	WOB Avg (klbs)	TORQUE Avg (kft-lb)		
	1000 2000 3000 4000 5000	16 32 48 64 80	5 10 15 20 25		
	VDEPTH				

