



INTEQ

Company : Apache

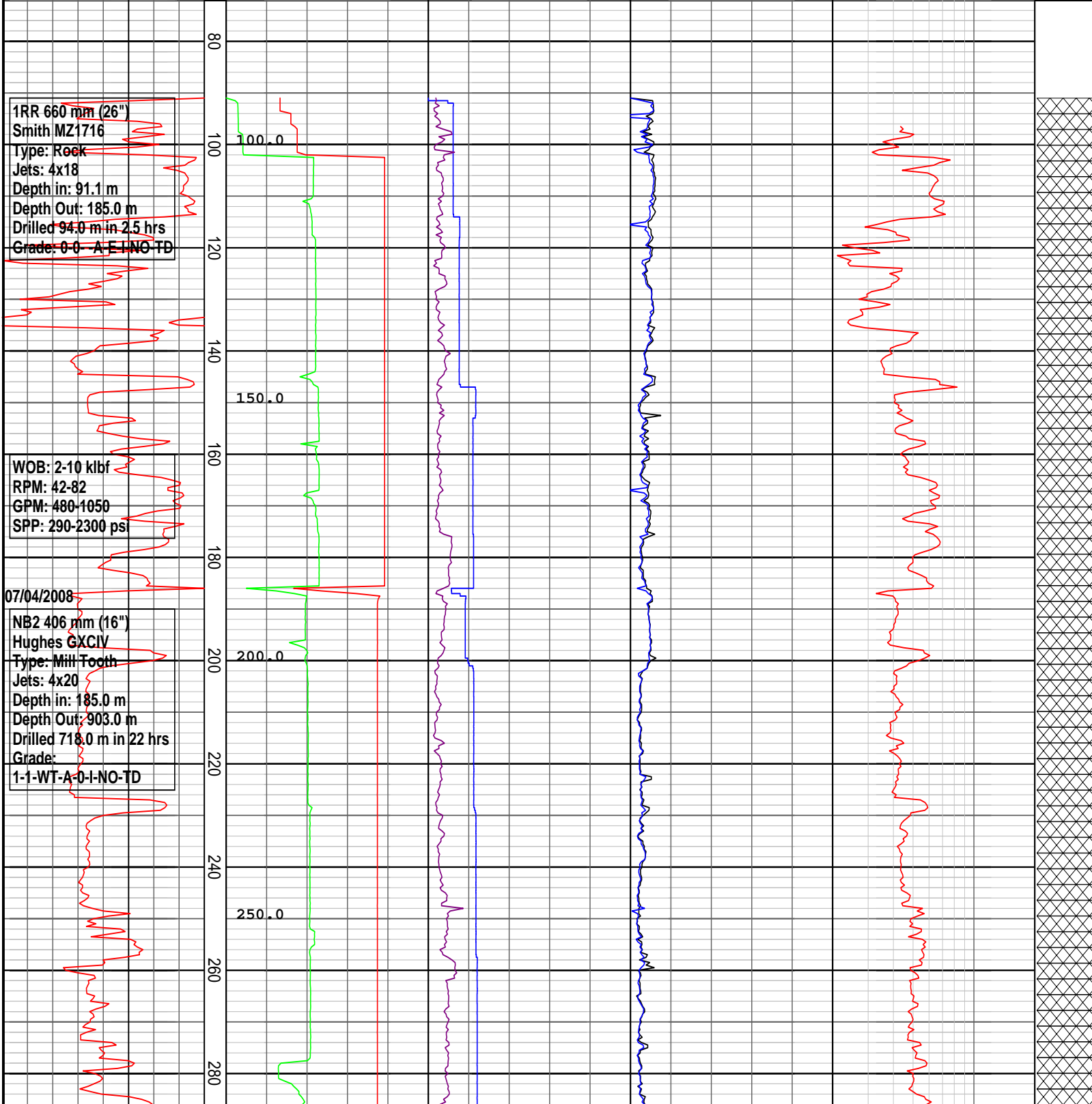
Well : Speke South-1

Interval : 72.00 - 1086.88 meters

Created : 14/Apr/2008 7:46:58 AM

### DRILLING DATA PLOT

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

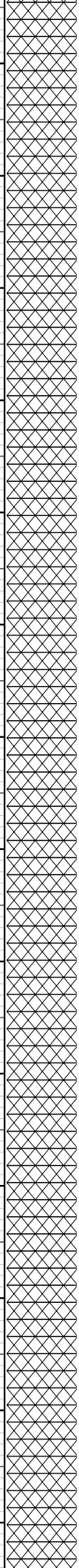
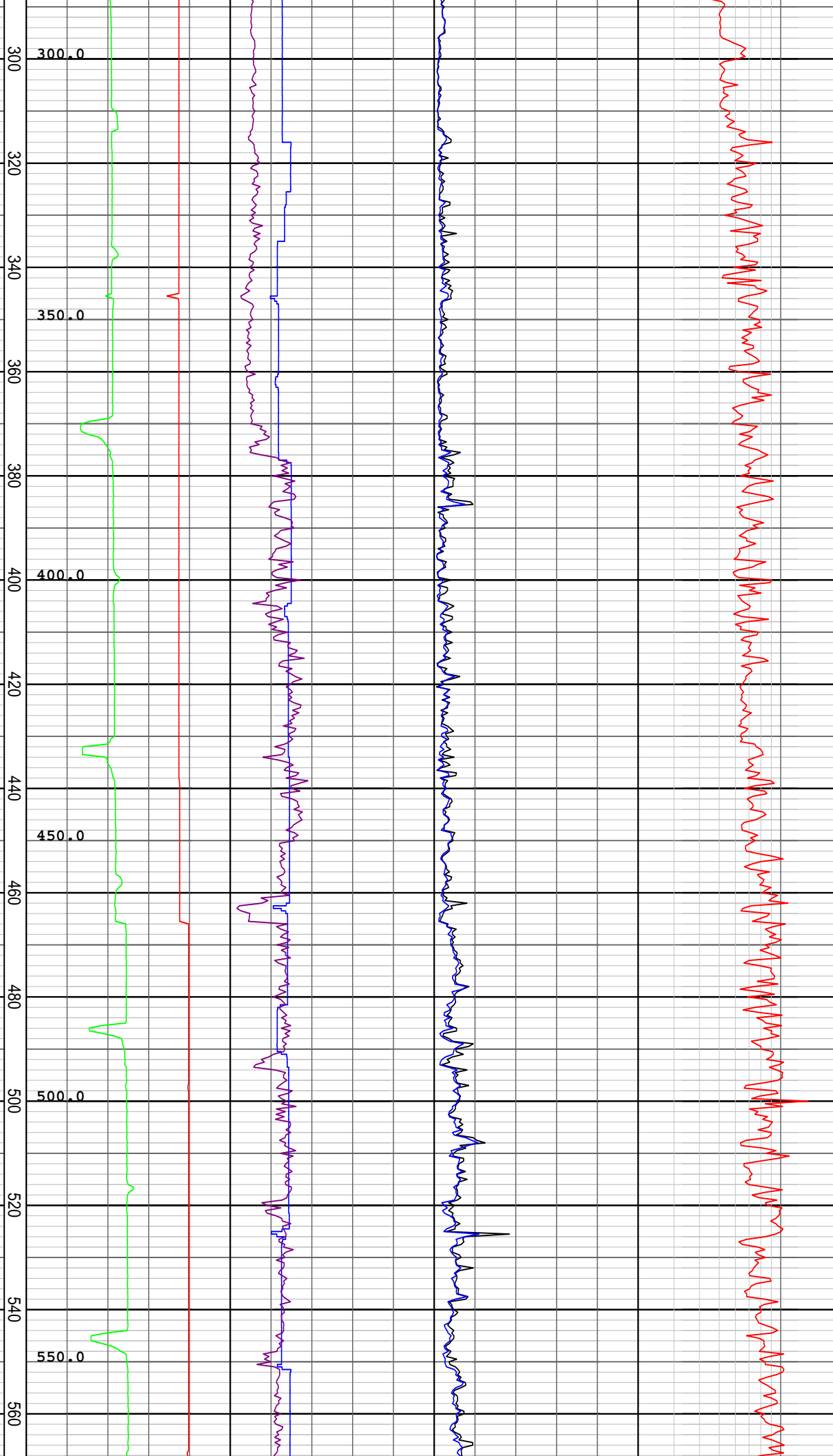
WOB: 2-10 klbf  
RPM: 42-82  
GPM: 480-1050  
SPP: 290-2300 psi

07/04/2008  
NB2 406 mm (16")  
Hughes GXCIV  
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

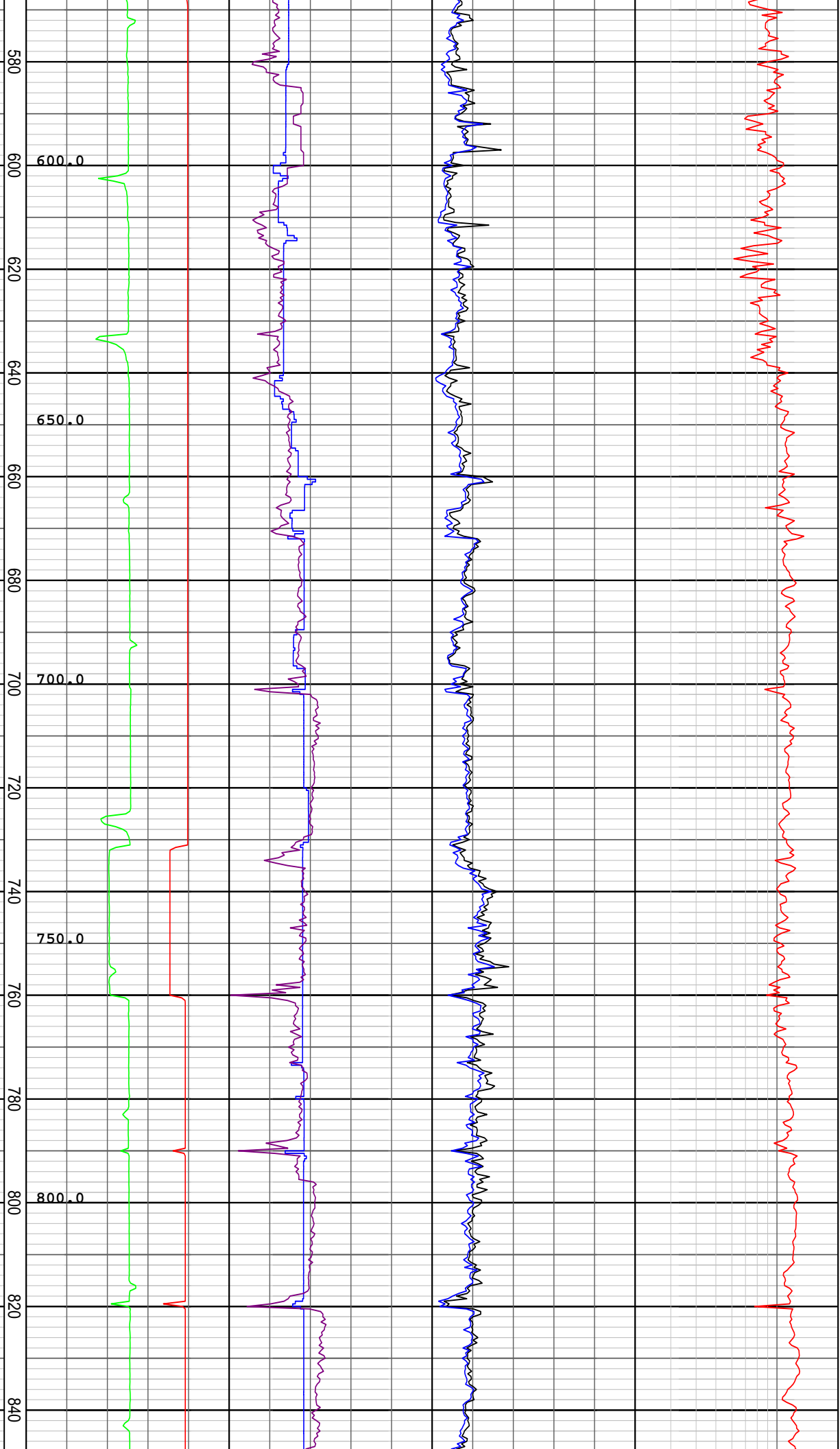
WOB: 3-30 klbf  
RPM: 74-105  
GPM: 1120-1195  
SPP: 1370-2465 psi

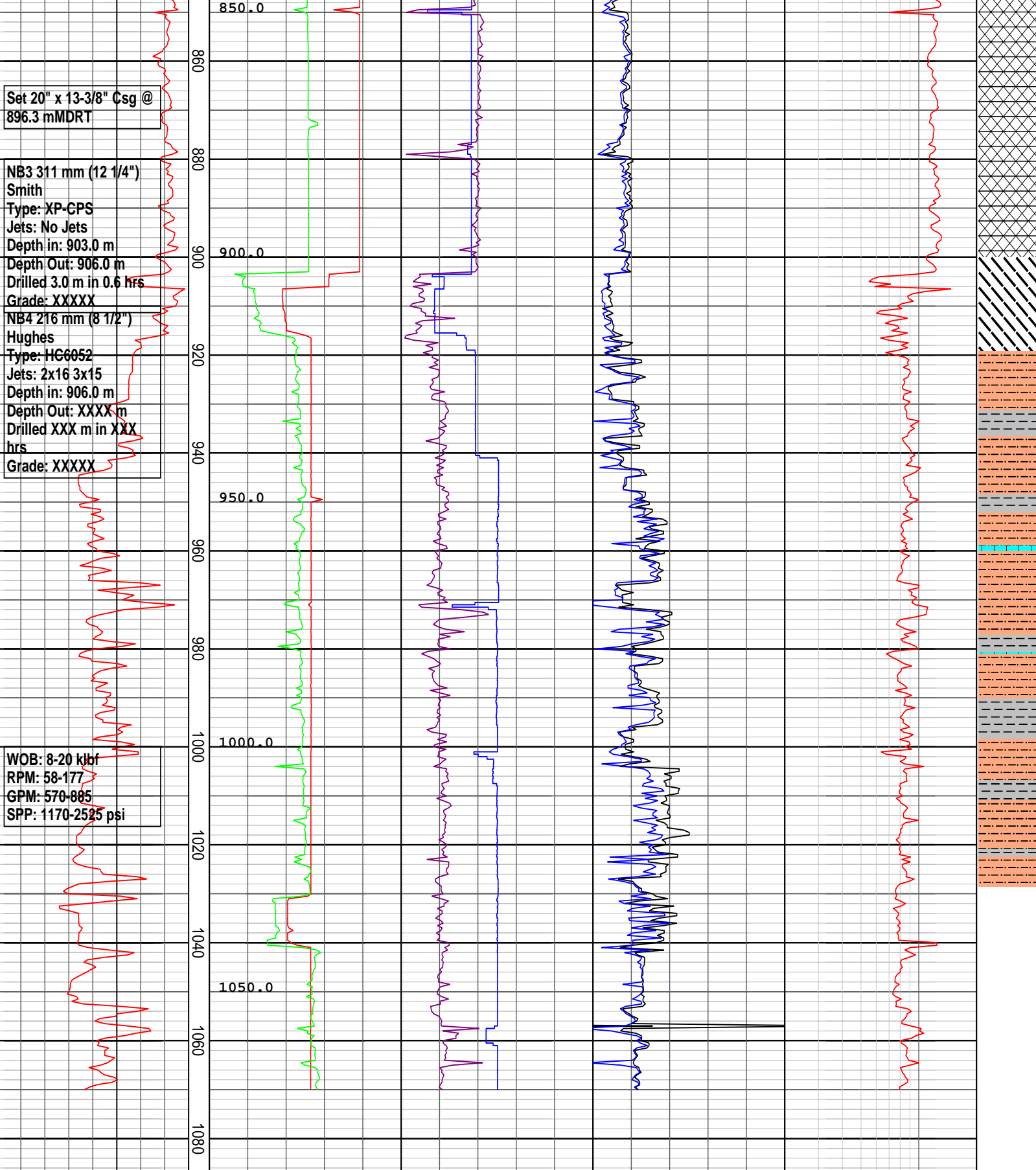


WOB: 9-29 klf  
RPM: 71-104  
GPM: 1180-1195  
SPP: 1580-2690 psi

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

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





| 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 1:1000                           | STANDPIPE (psi)<br>1000   2000   3000   4000   5000<br>VDEPTH | WOB Avg (klbs)<br>16   32   48   64   80 | TORQUE Avg (kft-lb)<br>5   10   15   20   25 |     |                       |   |