



INTEQ

Company : 3D Oil Ltd
Well : Wardie-1
Interval : 70.00 - 1623.09 meters
Created : 18/May/2008 9:42:02 PM



DRILLING DATA PLOT

ROP (m/hr) 400 375 350 325 300 275 250 225	FLOW IN (gpm) 300 600 900 1200 1500	TOTAL RPM 70 140 210 280 350	TORQUE Max (kft-lb) 5 10 15 20 25	DXC 0.3 3	INTERPRETED LITHOLOGY
ROP (m/hr) 200 175 150 125 100 75 50 25	STANDPIPE (psi) 1000 2000 3000 4000 5000	WOB Avg (klbs) 16 32 48 64 80	TORQUE Avg (kft-lb) 5 10 15 20 25	MW IN (sg) 1.1 1.2 1.3 1.4 1.5	
	MT OUT (degC) 20 40 60 80 100	MSE (MPa) 100 200 300 400 500		MW OUT (sg) 1.1 1.2 1.3 1.4 1.5	
	MT IN (degC) 20 40 60 80 100				

RB1: 660 mm (26") with 914 mm (36") H/Opener
Type: Rock / Reed Y11G
Jets: 3x22, 1x16
Depth In: 76.8 m
Depth Out: 136.0 m
Drilled 59.2 m in 2.5 hrs
Grade: 1-1-WT-A-NB-I-RR-TD

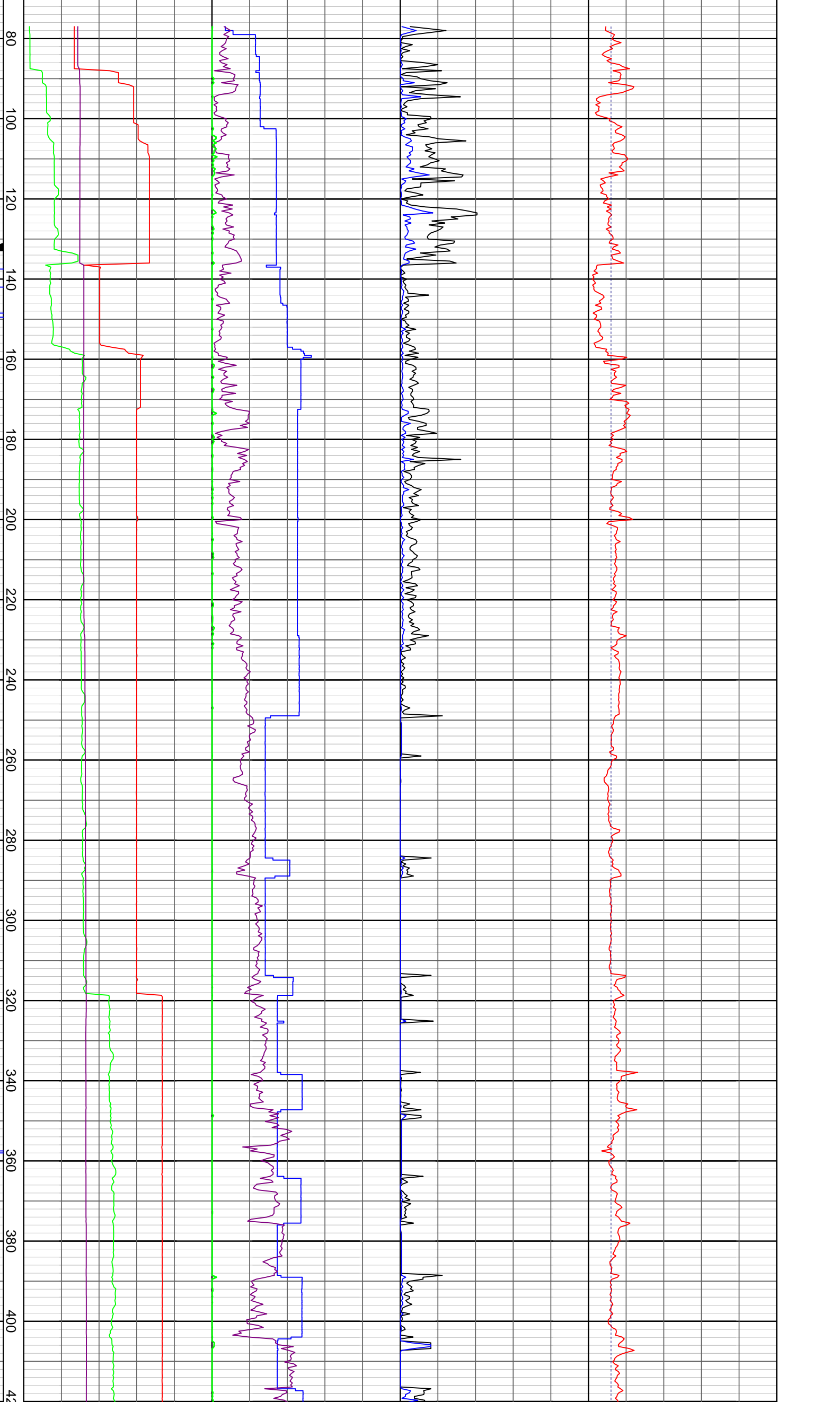
Set 30" x 20" Csg @ 133.0 mMDRT
11/05/08

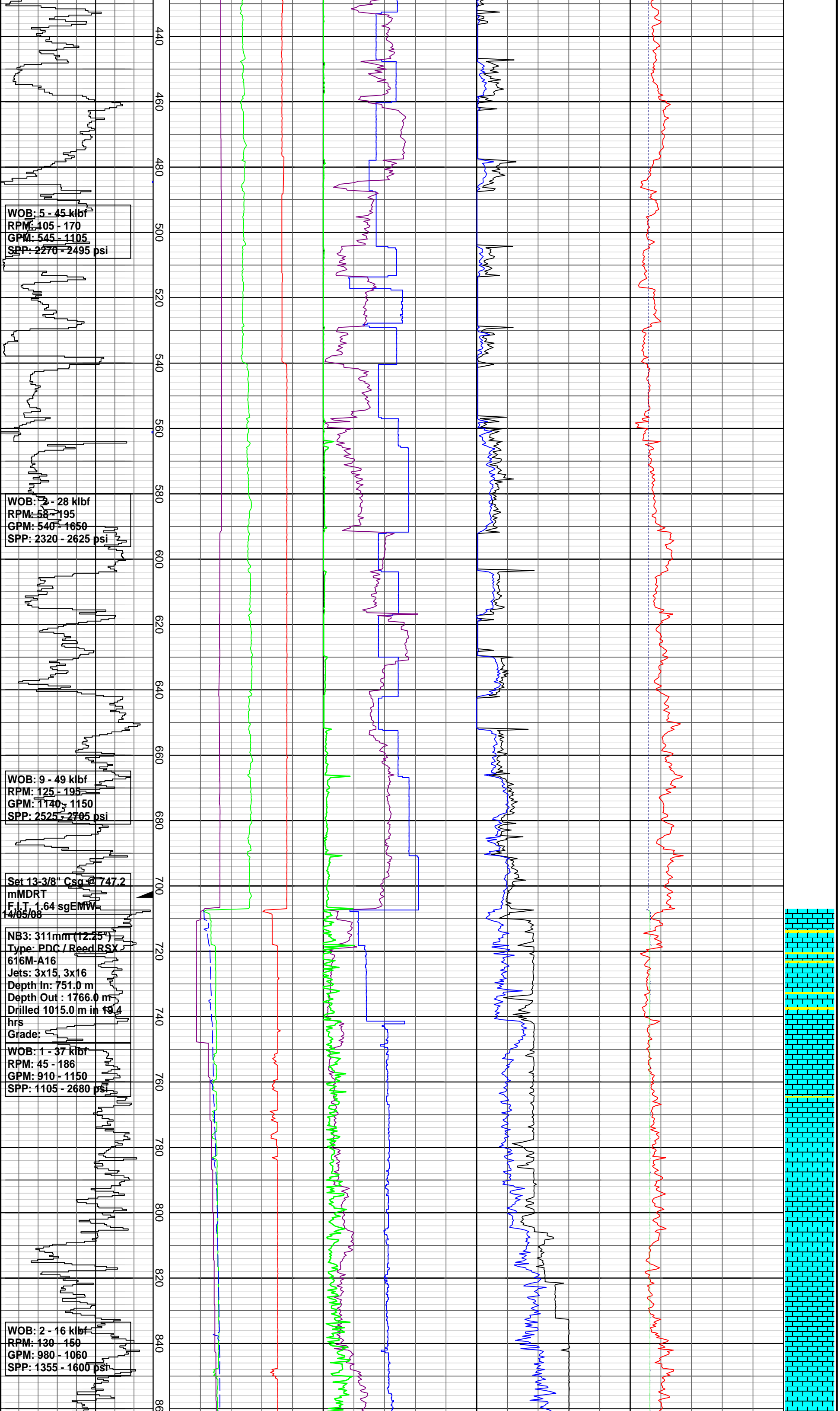
NB2: 444 mm (17.5")
Type: Rock / Hughes
MXL T1V
Jets: 3x20
Depth In: 136.0 m
Depth Out: 751.0 m
Drilled 615 m in 6.7 hrs
Grade: 1-1-NO-A-0-I-NO-TD

WOB: 1 - 16 klbf
RPM: 47 - 120
GPM: 483 - 1007
SPP: 581 - 1654 psi

WOB: 1 - 24 klbf
RPM: 0 - 63
GPM: 896 - 902
SPP: 1507 - 1666 psi

WOB: 13 - 33 klbf
RPM: 99 - 168
GPM: 900 - 1105
SPP: 1575 - 2445 psi





WOB: 5 - 45 klbf
 RPM: 105 - 170
 GPM: 545 - 1105
 SPP: 2270 - 2495 psi

WOB: 2 - 28 klbf
 RPM: 58 - 195
 GPM: 540 - 1650
 SPP: 2320 - 2625 psi

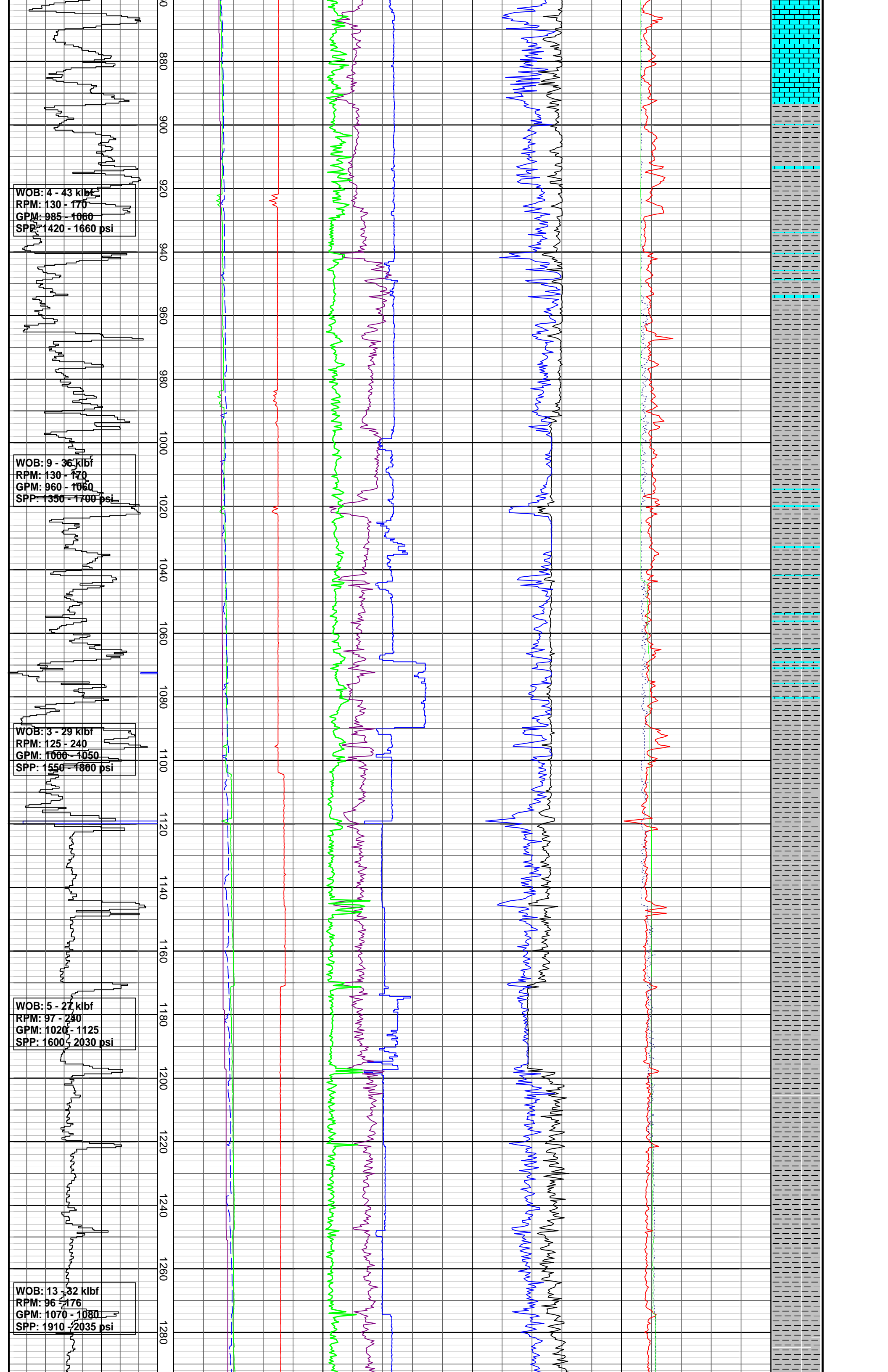
WOB: 9 - 49 klbf
 RPM: 125 - 195
 GPM: 1140 - 1150
 SPP: 2525 - 2705 psi

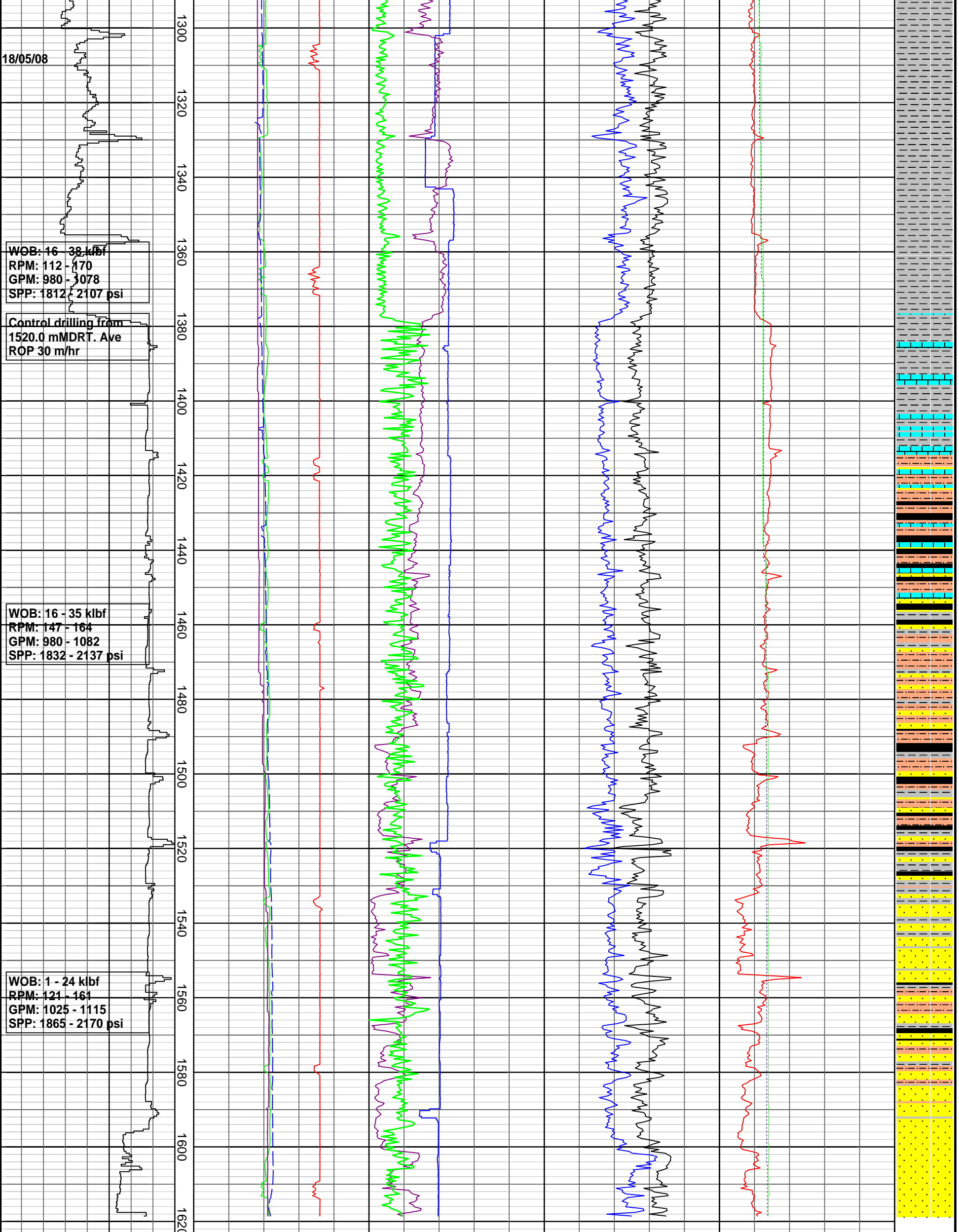
Set 13-3/8" Csg @ 747.2
 mMDRT
 F.L.T. 1.64 sgEMW
 14/05/08

NB3: 311mm (12.25")
 Type: PDC / Reed RSX
 616M-A16
 Jets: 3x15, 3x16
 Depth In: 751.0 m
 Depth Out: 1766.0 m
 Drilled 1015.0 m in 19.4
 hrs
 Grade:

WOB: 1 - 37 klbf
 RPM: 45 - 186
 GPM: 910 - 1150
 SPP: 1105 - 2680 psi

WOB: 2 - 16 klbf
 RPM: 130 - 150
 GPM: 980 - 1060
 SPP: 1355 - 1600 psi





DRILLING DATA PLOT

ROP (m/hr) 225 250 275 300 325 350 375 400 ROP (m/hr) 25 50 75 100 125 150 175 200	TVD meters 1:1000	FLOW IN (gpm) 300 600 900 1200 1500	TOTAL RPM 70 140 210 280 350	TORQUE Max (kft-lb) 5 10 15 20 25	DXC 0.3 1.1 1.2 1.3 1.4 1.5 3	INTERPRETED LITHOLOGY	
		STANDPIPE (psi) 1000 2000 3000 4000 5000	WOB Avg (klbs) 16 32 48 64 80	TORQUE Avg (kft-lb) 5 10 15 20 25			MW IN (sg) 1.1 1.2 1.3 1.4 1.5
		MT OUT (degC) 20 40 60 80 100	MSE (MPa) 100 200 300 400 500	MW OUT (sg) 1.1 1.2 1.3 1.4 1.5			
		MT IN (degC) 20 40 60 80 100					