

# DRILLING LOG 1:1000

Company	:	Woodside Energy Ltd
Rig	:	Ocean Patriot
Well	:	Halladale -1 DW3
Field	:	Halladale
Country	:	Australia
DOE Number	:	

Latitude : 38° 34' 45.54" South  
Longitude : 142° 43' 50.95" East  
UTM Easting = 650,763.20 m  
UTM Northing = 5,728,485.20 m





















Other Services  
FEWD  
Directional Drilling

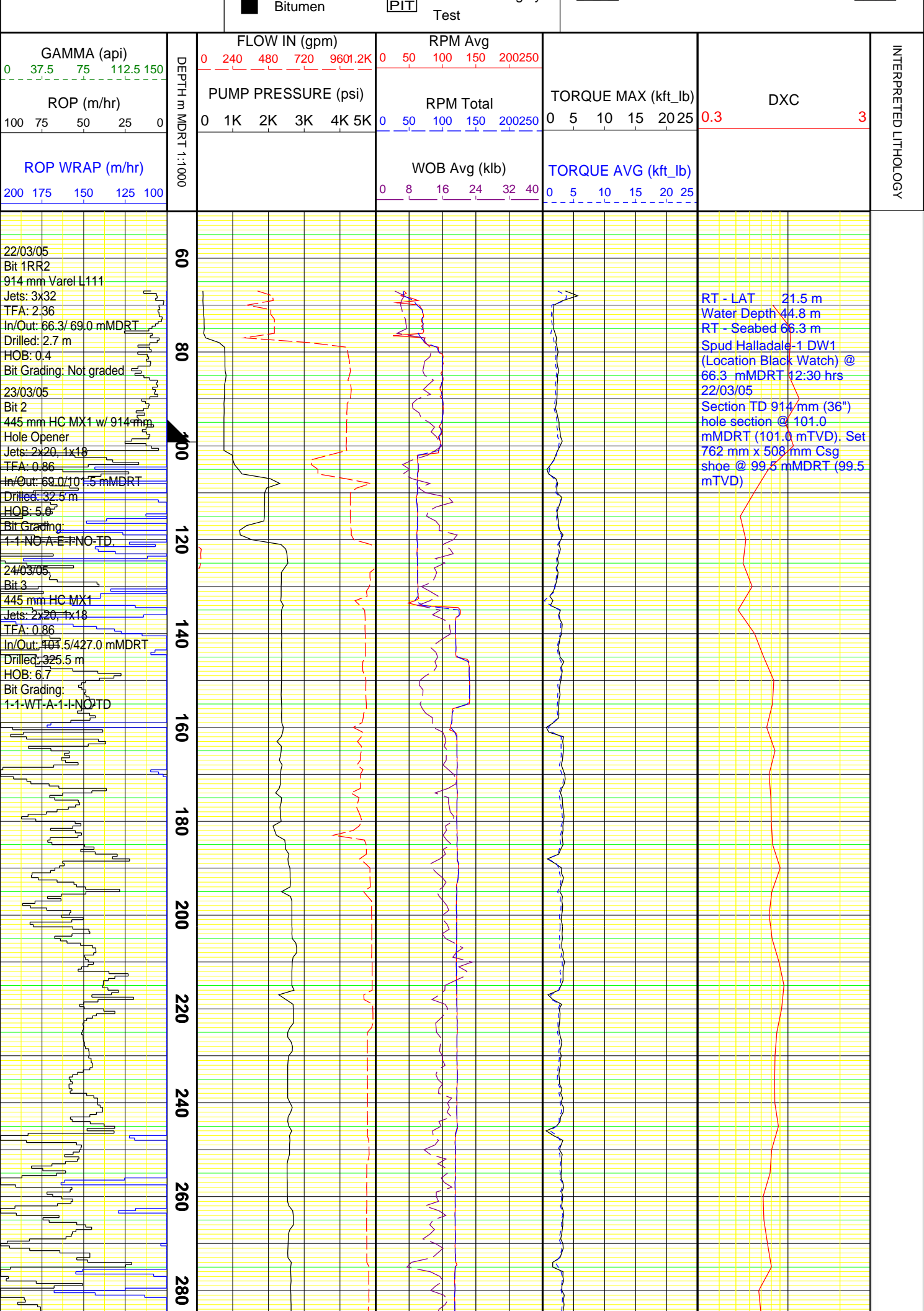
MD LOGPlot Date : 28-Jun-05

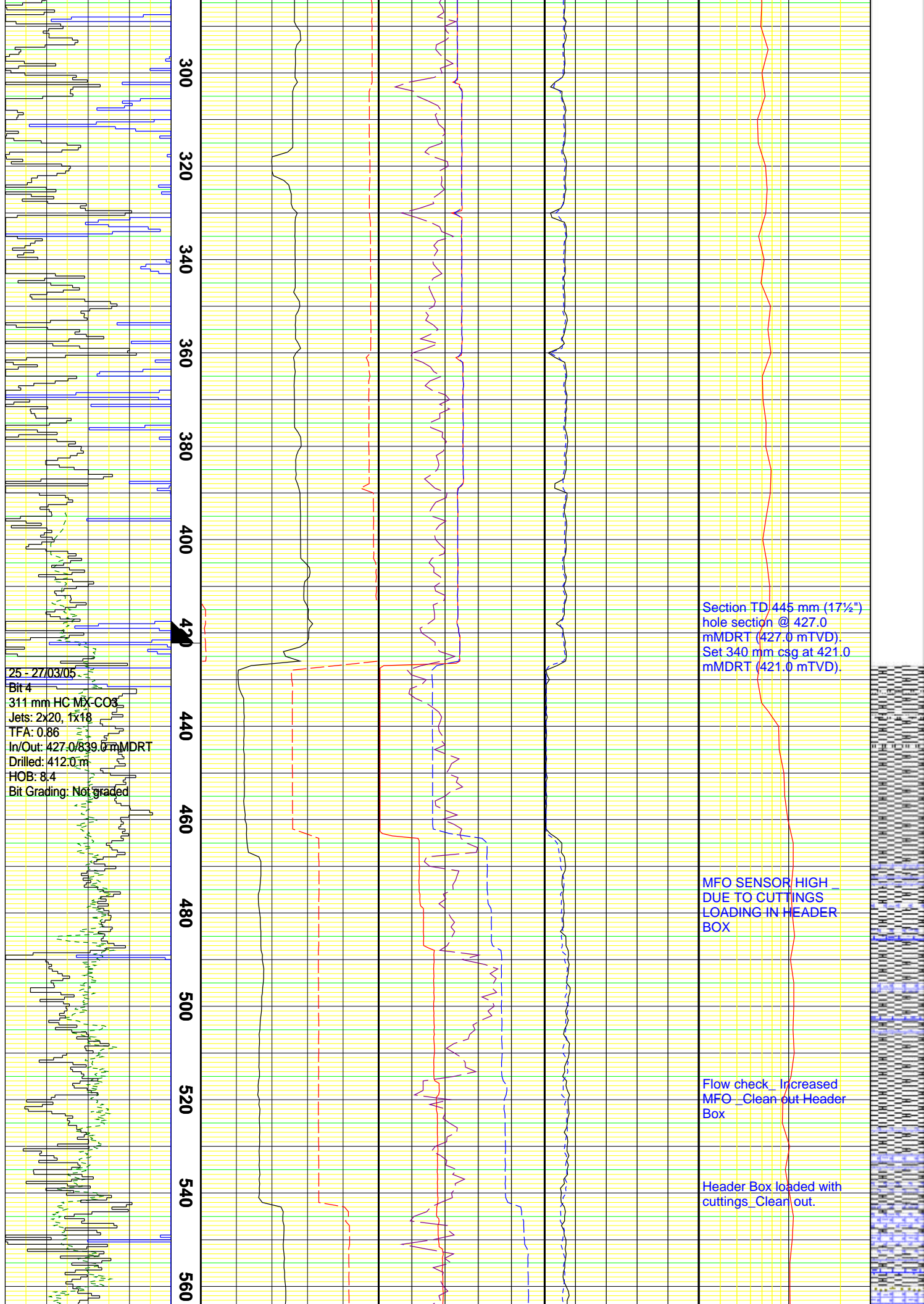
Run No.	Size	Casing Record (MD)	Borehole Record (MD)
		From	To
	Size	Weight	
2,000 mm	458.00 kgpm	SURFACE	99.50 m
0,000 mm	101.00 kgpm	SURFACE	421.00 m
4,000 mm	70.00 kgpm	SURFACE	834.00 m

## Abbreviations and Symbols

## Lithology Symbols

Drilling Data		Mud Data		Engineering Data		Lithology			
BG	Background Gas	CI-	Chloride Ion Conc	Rm	Mud Resistivity		Sandstone		Sandy Claystone
BHT	Bottomhole Temp	FC	Filter Cake	Rmf	Filtrate Resistivity		Calcareous Sandstone		Silty Claystone
C	Carbide Test	FL	Filtrate Loss	S	Solids Content		Glaucconitic Sandstone		Calcarenite
CB	Core Bit	G	Gels	Vis	Funnel Viscosity		Silty Sandstone		Argillaceous Calcarenite
CG	Connection Gas	pH	Hydrogen Ion Content	MW	Mud Weight		Argillaceous Sandstone		Sandy Calcarenite
CKF	Check For Flow	PV	Plastic Viscosity	YP	Yield Point		Siltstone		Calcisiltite
CO	Circulate Out						Sandy Siltstone		Calcilutite
DB	Diamond Bit						Argillaceous Siltstone		Argillaceous Calcilutite
DC	Depth Correction						Claystone		Limestone
DS	Direction Survey						Clacareous Claystone		Dolomite
DST	Drillstem Test								
FLT	Flowline Temp.								
LAT	Logged After Trip								
NB	New Bit								
NR	No Returns								
PDC	Polycrystalline Diamond								
	Compound Bit								
PR	Partial Returns								
RPM	Revs Per Minute								
RRB	Rerun Bit								
STG	Short Trip Gas								
TB	Turbo Drill								
TG	Trip Gas								
U	Gas Units								
WOB	Weight On Bit								





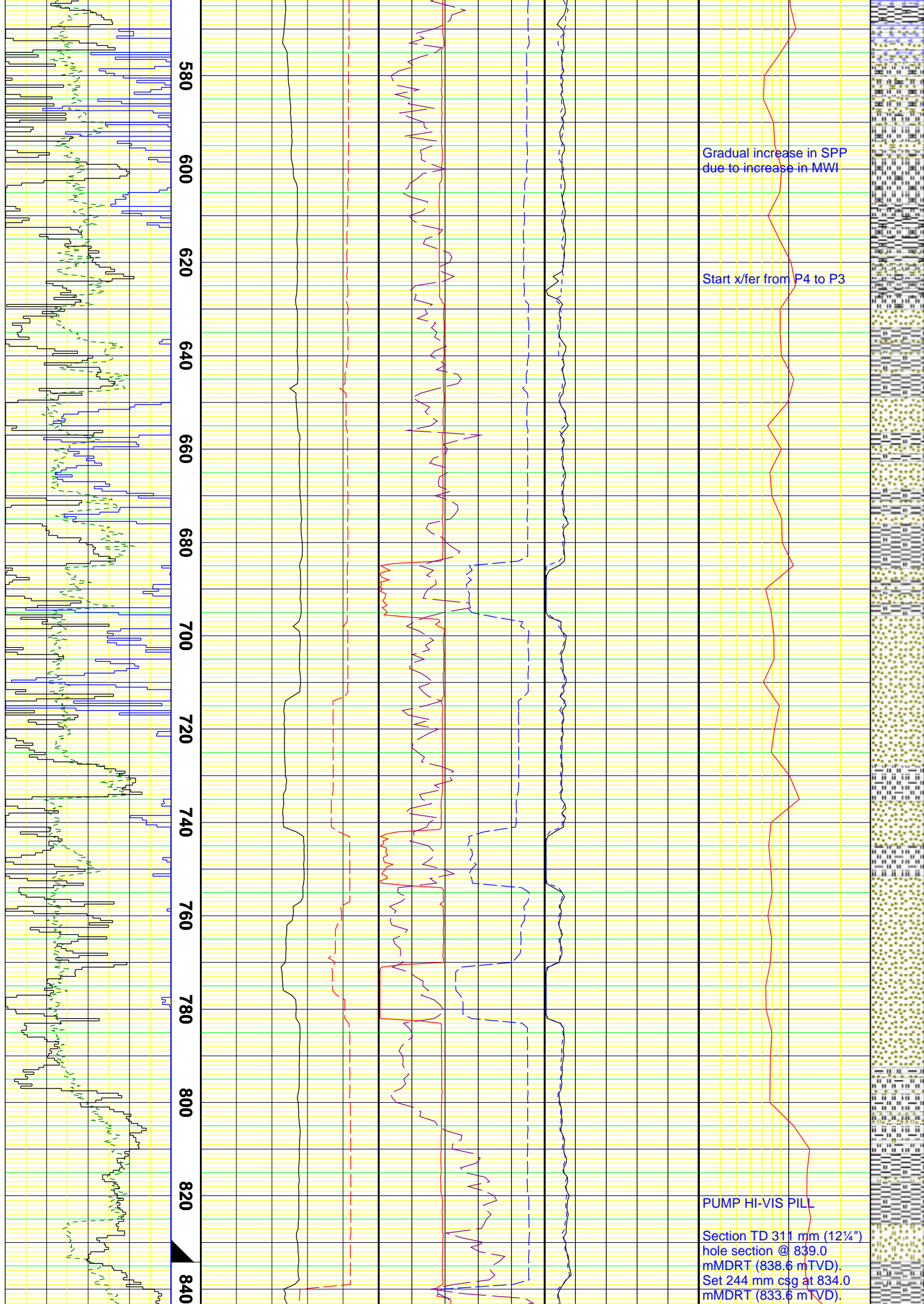
25 - 27/03/05  
Bit 4  
311 mm HC MX-CO3  
Jets: 2x20, 1x18  
TFA: 0.86  
In/Out: 427.0/839.0 mMDRT  
Drilled: 412.0 m  
HOB: 8.4  
Bit Grading: Not graded

Section TD 445 mm (17 1/2")  
hole section @ 427.0  
mMDRT (427.0 mTVD).  
Set 340 mm csg at 421.0  
mMDRT (421.0 mTVD).

MFO SENSOR HIGH  
DUE TO CUTTINGS  
LOADING IN HEADER  
BOX

Flow check Increased  
MFO Clean out Header  
Box

Header Box loaded with  
cuttings Clean out.



Gradual increase in SPP  
due to increase in MWI

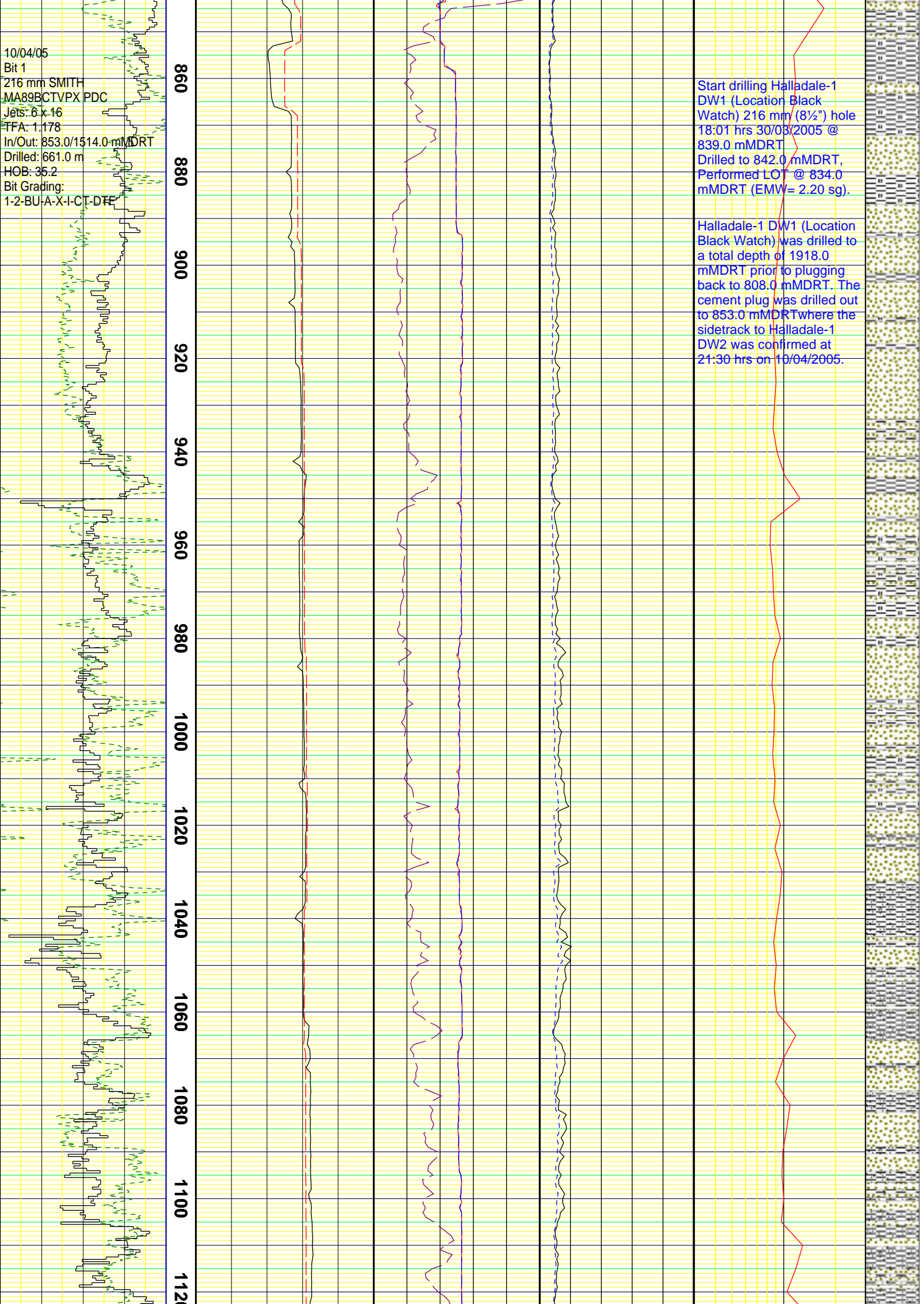
Start x/fer from P4 to P3

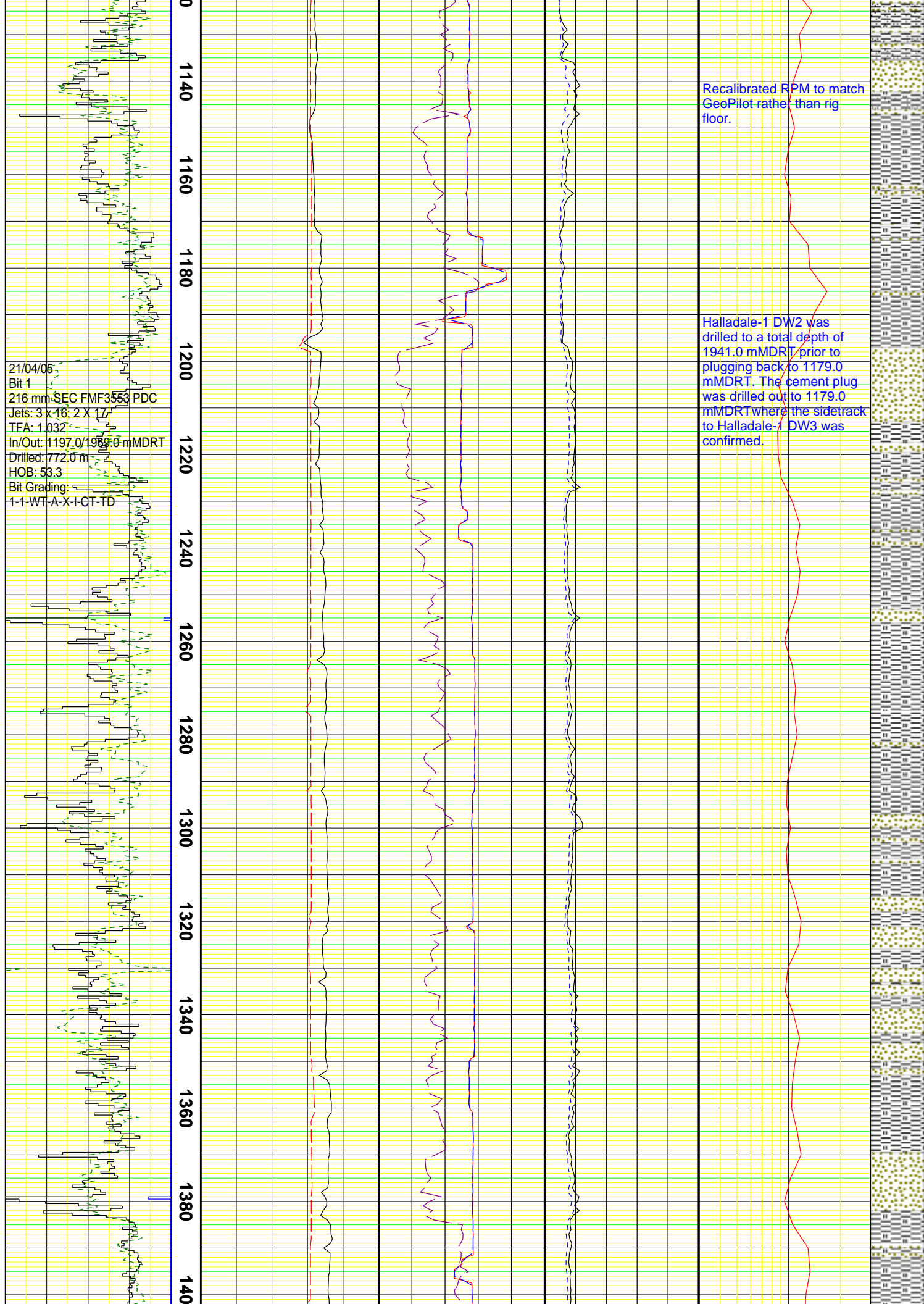
PUMP HI-VIS PILL

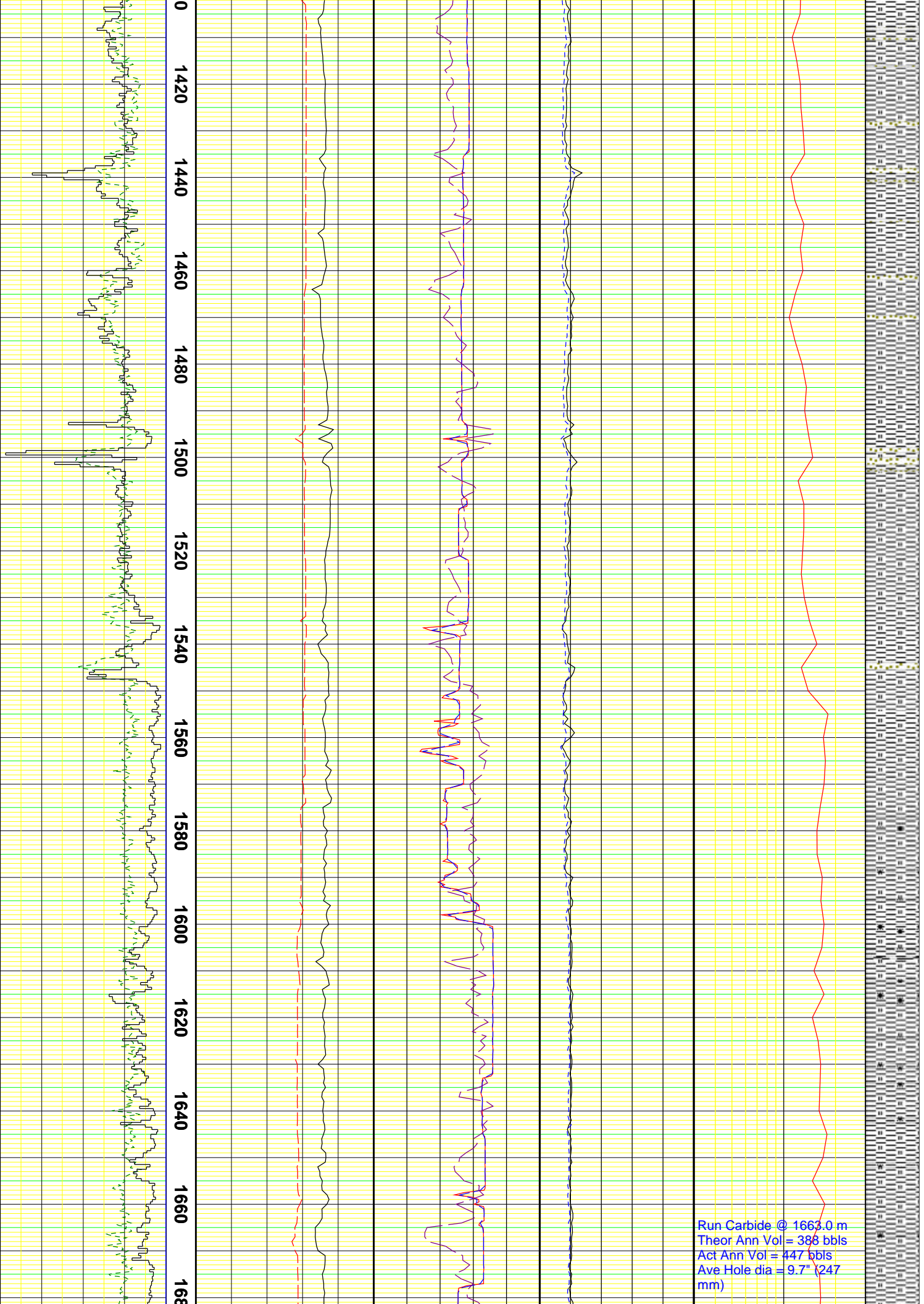
Section TD 311 mm (12 1/4")  
hole section @ 839.0  
mMDRT (838.6 mTVD).  
Set 244 mm csg at 834.0  
mMDRT (833.6 mTVD).



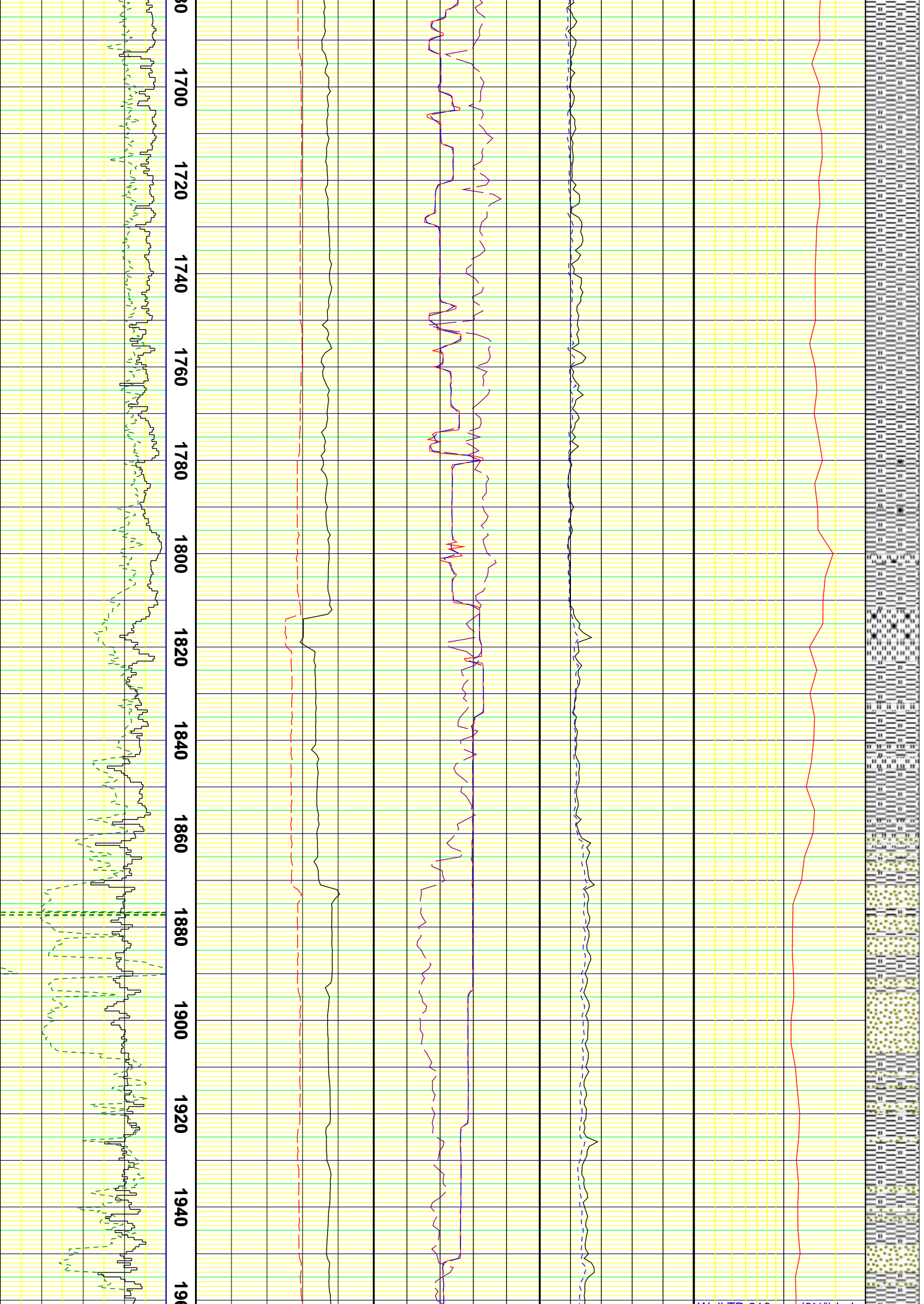
10/04/05  
Bit 1  
216 mm SMITH  
MA89BCTVPX PDC  
Jets: 6 x 16  
TFA: 1.178  
In/Out: 853.0/1514.0 mMDRT  
Drilled: 661.0 m  
HOB: 35.2  
Bit Grading:  
1-2-BU-A-X-I-CT-DH



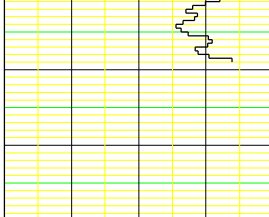


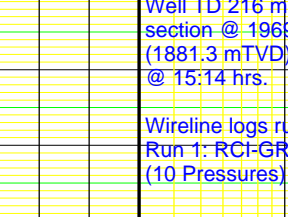
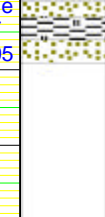




Run Carbide @ 1663.0 m  
Theor Ann Vol = 388 bbls  
Act Ann Vol = 447 bbls  
Ave Hole dia = 9.7" (247 mm)





										60																															Well ID 216 mm (8½") hole section @ 1969.0 mMDRT (1881.3 mTVD) on 24/04/05 @ 15:14 hrs.																			
										1980																					Wireline logs run at TD. Run 1: RCI-GR (10 Pressures)																													
GAMMA (api) 0 37.5 75 112.5 150										DEPTH m MDRT 1:1000	FLOW IN (gpm) 0 240 480 720 960 1.2K										RPM Avg 0 50 100 150 200 250																														INTERPRETED LITHOLOGY									
ROP (m/hr) 100 75 50 25 0											PUMP PRESSURE (psi) 0 1K 2K 3K 4K 5K										RPM Total 0 50 100 150 200 250										TORQUE MAX (kft_lb) 0 5 10 15 20 25										DXC 0.3 3																			
ROP WRAP (m/hr) 200 175 150 125 100																					WOB Avg (klb) 0 8 16 24 32 40										TORQUE AVG (kft_lb) 0 5 10 15 20 25																													