



INTEQ

Company : Lakes Oil N.L.

Well : Wombat-4

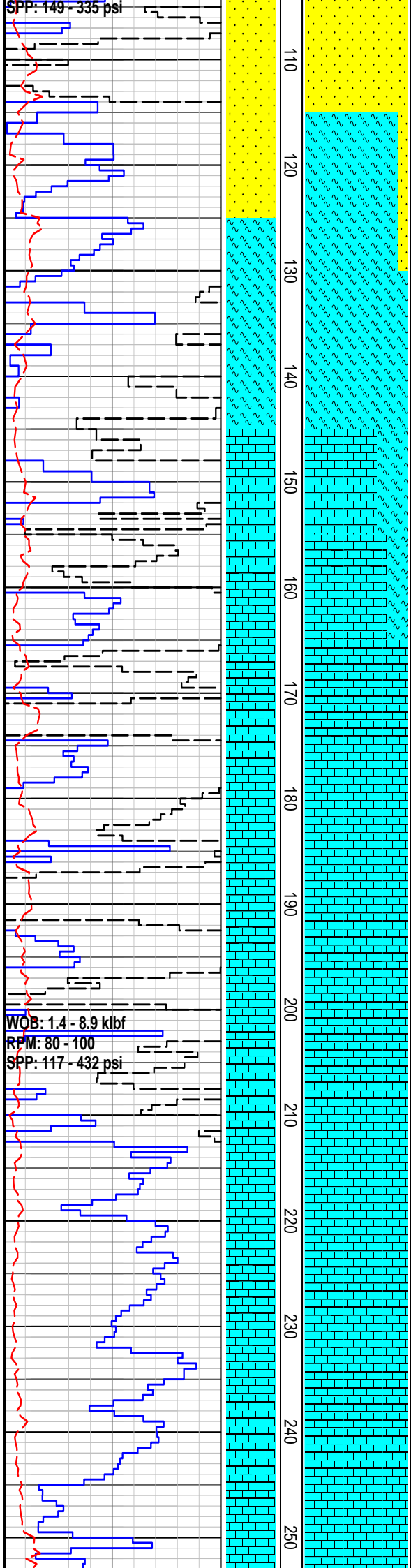
Interval : 0.00 - 1328.31 meters

Created : 27/Oct/2009 5:07:53 AM



## FORMATION EVALUATION LOG

RATE OF PENETRATION		LITHOLOGY	LITHOLOGY	CORE	OIL SHOWS	TOTAL GAS	CHROMATOGRAPH				REMARKS			
ROP (0-100m/hr)							Methane ppm							
100	90	80	70	60	50	40	30	20	10	1	10000			
Backup ROP (100-200m/hr)		Propane ppm				Ethane ppm				1	10000			
200	190	180	170	160	150	140	130	120	110	1	10000			
WOB (klb)		iso-Butane ppm				n-Butane ppm				1	10000			
5	10	15	20	25	30	35	40	45	50	1	10000			
		iso-Pentane ppm				n-Pentane ppm				1	10000			
										10	100	1000	10000	
														All Depths are Recorded in Meter from RKB
														RKB - GL: 3.65m
RR1 311mm (12-1/4") Reed EHP 41KPR Jets: 3x18 In: 16m Out: 302m Drilled: 286m in 5.7hrs														340mm (13-3/8") casing shoe at 15.65mMD
														SANDSTONE: lt m yel or, v f-crs, dom m, sbang-rnd, pr srt, n cmt, tr yel or arg & slt mtrx, qtz, clr-mky qtz gr w/yel-brn Fe ox stn, tr blk c detr, uncons, v f por, n fluor
														SILTY CLAYSTONE: m gry, abd disp v f-v crs qtz sd gr, v sft, v disp, stky, n fiss
														SANDSTONE: lt gry, v f-v crs, dom m, sbang-rnd, dom rnd, pr srt, n cmt, com-abd m gry arg & slt mtrx, quartzose w/clr-op qtz gr w/gry brn stn, com gry-blk & brn cht lit, com crs clr detr, uncons, v gd inf por, n fluor



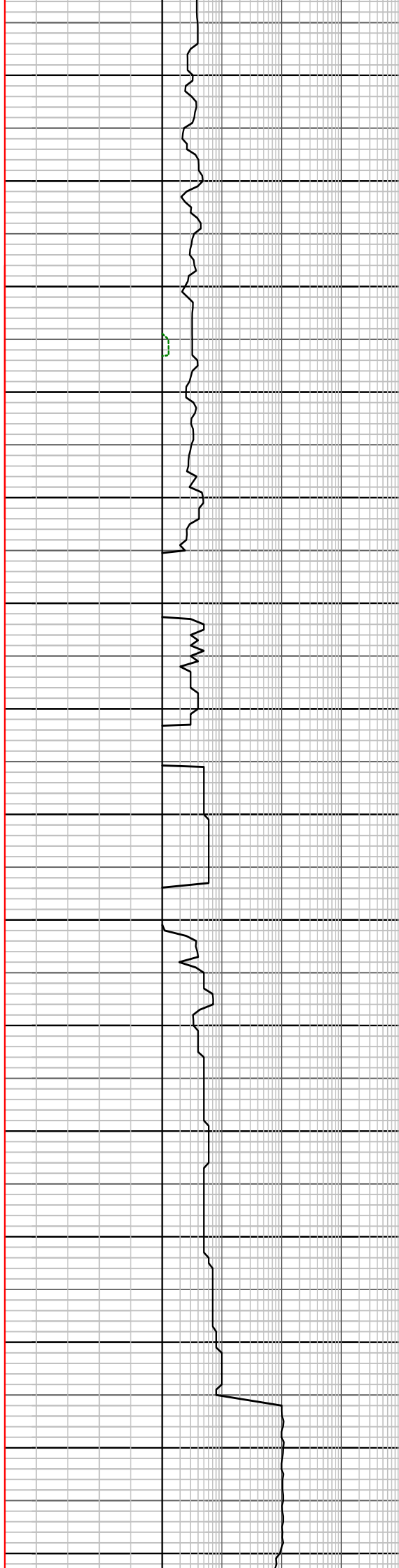
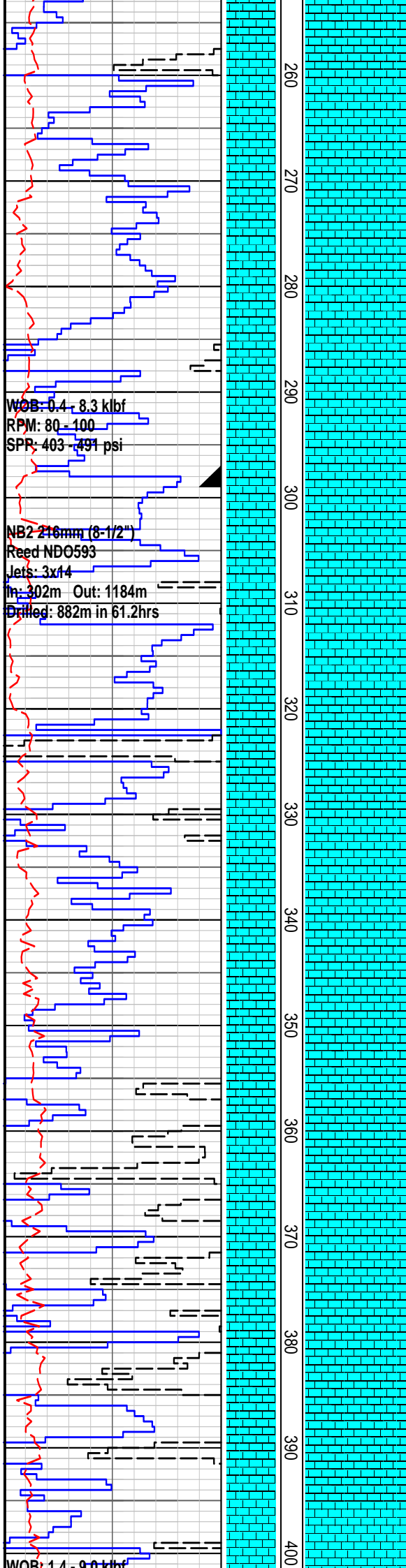
110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250

MARL: lt gry-m gry, m gn gry-m brn gry, com-abd foss frags incl bry, shell frags, forams, v sft, v disp, n fiss

CALCARENITE: lt gry-lt brn gry, f-m gr, wk calc cmt, abd foss frag incl bry, forams, shell frags, mod argill, tr-com vf-f qtz gr, rr m gn glauc, p vis por, n fluor

CALCARENITE: lt gry-lt brn gry, f-m gr, wk calc cmt, abd foss frags incl bry, forams, shell frags, mod argill, tr-com v f-f qtz gr, rr m gn glauc, p vis por, n fluor

CALCARENITE: lt gry-lt brn gry, f-m gr, wk calc cmt, abd foss frags incl bry, forams, shell frags, mod argill, tr-com v f-f qtz gr, rr m gn glauc, p vis por, n fluor

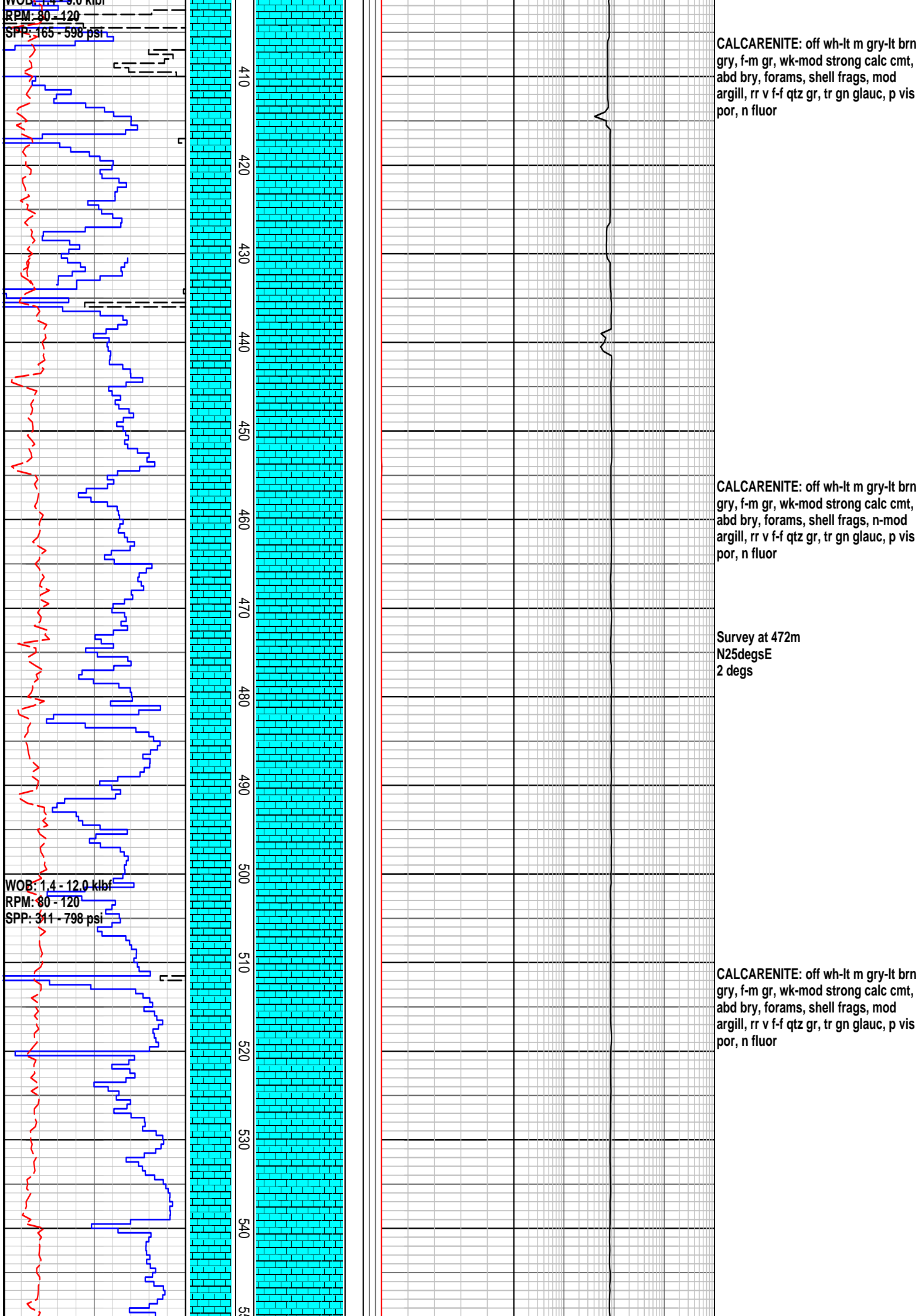


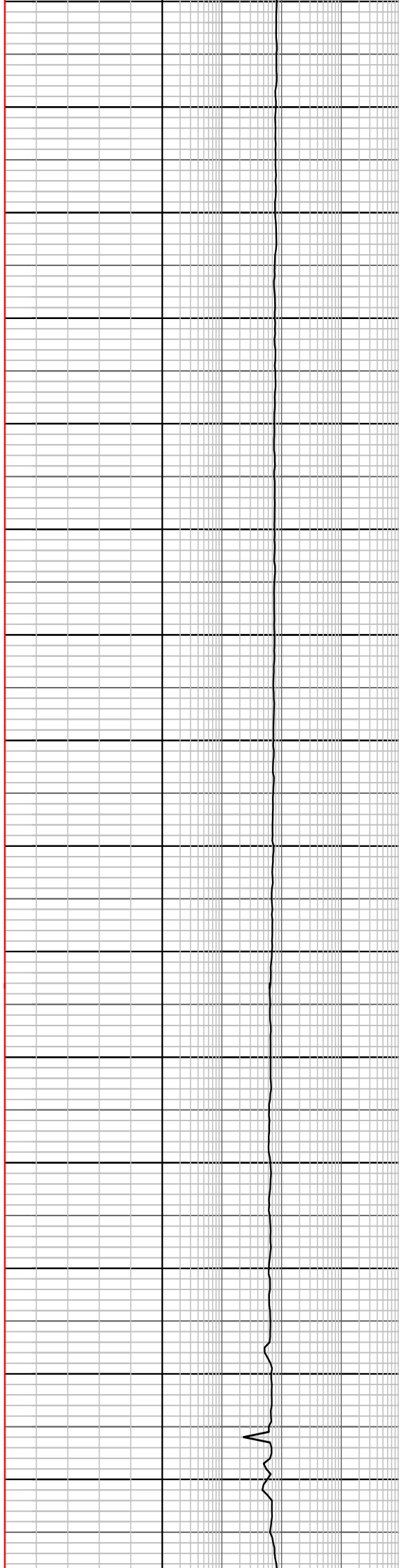
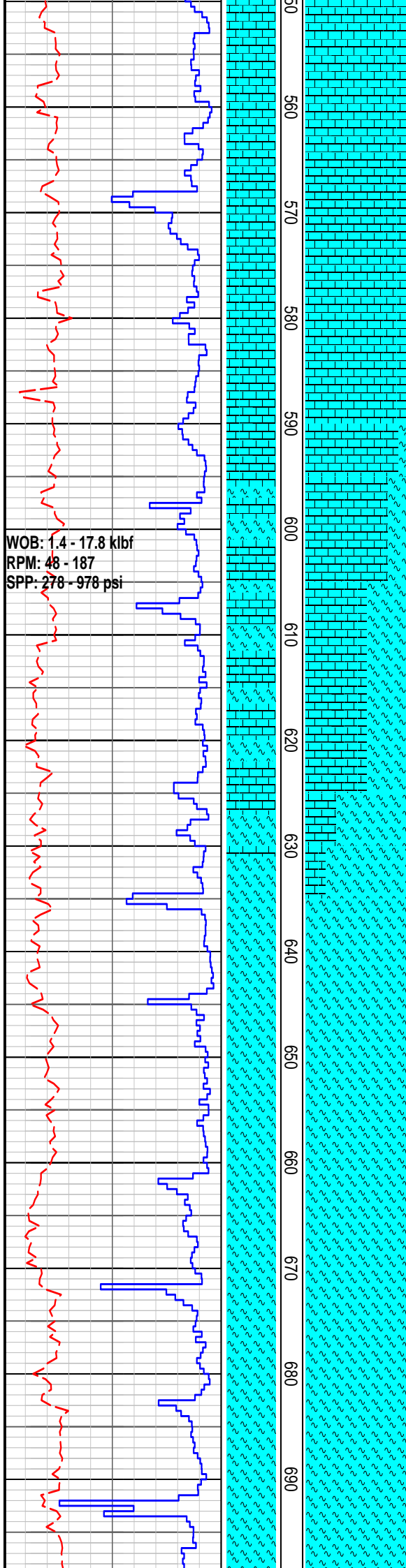
CALCARENITE: lt gry-lt brn gry, rr lt gn gry, f-m gr, wk calc cmt, abd foss frags incl bry, forams, shell frags, sli argill, rr v f-f qtz gr, rr m gn glauc, p vis por, n fluor

244mm (9-5/8") casing shoe at 299mMD

CALCARENITE: lt gry-lt brn gry, rr lt gn gry, f-m gr, wk calc cmt, abd bry, forams, shell frags, mod argill, rr-com v f-f qtz gr, tr gn glauc gn glauc, p vis por, n fluor

CALCARENITE: lt gry-lt brn gry, rr lt gn gry, f-m gr, wk calc cmt, abd bry, forams, shell frags, mod argill, rr v f-f qtz gr, tr gn glauc, p vis por, n fluor





CALCARENITE: off wh-lt m gry-lt brn  
gry, f-m gr, wk-strong calc cmt, com  
bry, tr echinoid spines, forams & shell  
frags, n-mod argill, rr v f-f qtz gr,  
tr-com gn glauc, fri, v p vis

MARL: m gry-m brn, v calc grd to  
CLCLT, tr foss frags, sft, stky, n fiss

CALCILUTITE: lt gry-m gry-m lt gry,  
sli-v argill, grd i/p to MRL, oft v f  
calcerenitic, grd CLCAR, tr foss frags,  
sft, stky, n fiss

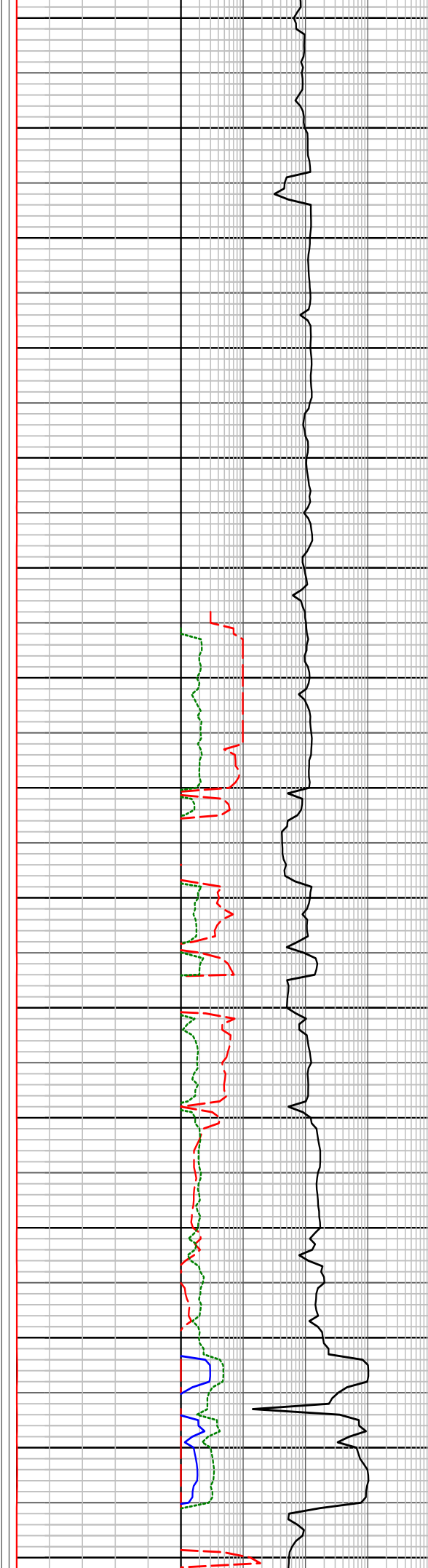
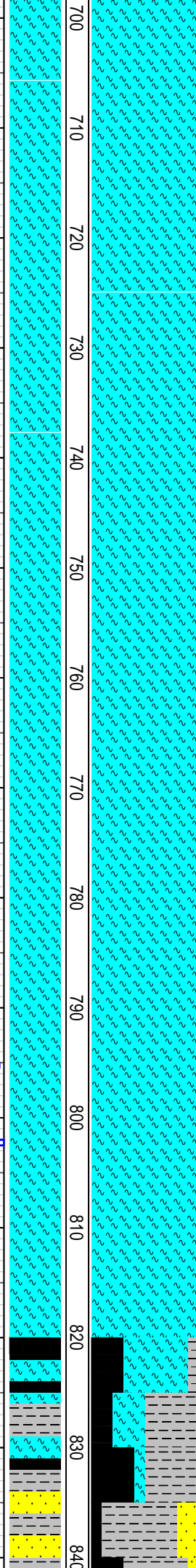
MARL: v lt-m gry-gn gry-brn gry, v  
calc grd i/p to off wh argil calc CLCLT  
tr foss frags, sft, stky, n fiss

Survey at 687m  
N86degsE  
2 degs

WOB: 5.0 - 14.0 klbf  
RPM: 80 - 128  
SPP: 278 - 978 psi

WOB: 3.0 - 15.0 klbf  
RPM: 50 - 116  
SPP: 420 - 940 psi

700  
710  
720  
730  
740  
750  
760  
770  
780  
790  
800  
810  
820  
830  
840



Run Carbide at 699m  
MW: 9.0ppg Vis: 41  
Average hole size: 8.90inch

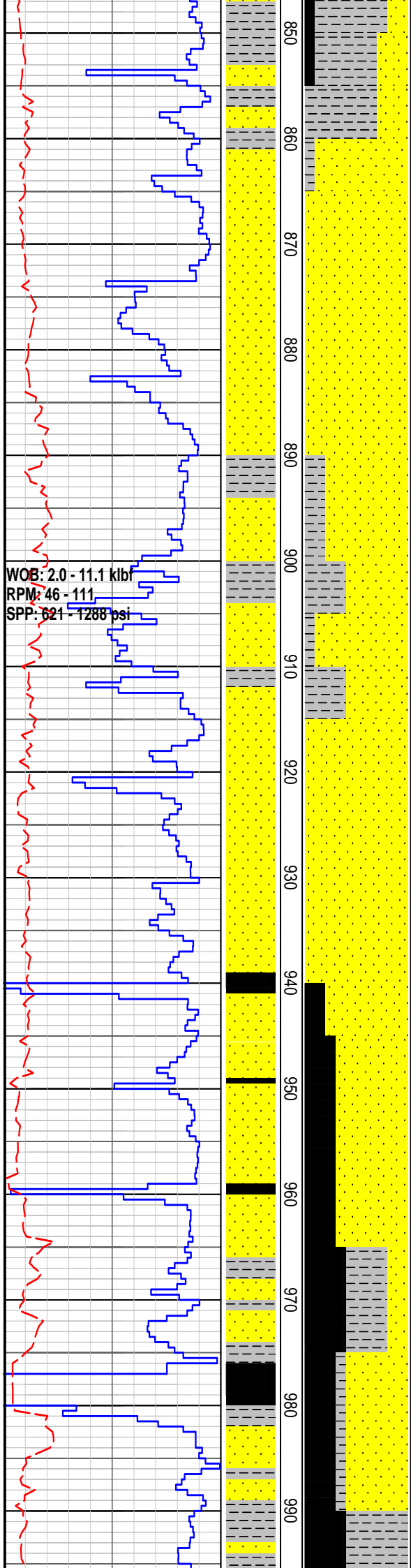
MARL: v lt-m gry-gn gry-brn gry, occ  
lt-m brn gry, mod-v calc, tr foss frags,  
sft, stky, n fiss

MARL: lt-m gn gry-lt m gry, mod-v  
calc, tr foss frags, sft, stky, n fiss

MARL: lt-m gn gry-lt m gry, mod-v  
calc, tr foss frags, sft, tr glauc, stky, n  
fiss

COAL: m brn-blk, irreg-blky frac, ea  
lstr, sli-dom v argil, frm-mod hd

SANDSTONE: lt-m brn, vf-m gr, dom  
vf, ang-sbrnd, p-mod srtd, v wk sil  
cmt, abd lt brn argil & slt mtrx,  
quartzose w/clr-opq qtz gr, tr crs clr  
mic flks, tr blk c detr, rr pyr, fri, v p inf  
por, n fluor



CLAYSTONE: lt-dk brn, dom m brn, sl  
silty and f aren i/p, v sli-mod carb, tr  
blk coal flk, tr amber, sft, v disp, n fiss

SANDSTONE: lt brn gry, vf-v crs, dom  
m-crs, sbang-rnd, p-mod srtd, wk sil  
cmt, tr-com lt brn argill & slt mtrx,  
quartzose w/clr-op qtz gr w/mnr brn  
stn, tr gr gry & blk cht lit, tr blk c detr,  
fri, gd-v gd inf por, n fluor

CLAYSTONE: lt-dk brn, dom m brn, sl  
silty and f aren i/p, v sli-mod carb, tr  
blk coal flk, tr amb, sft, v disp, n fiss

Survey at 917m  
N50degSE  
3 degs

SANDSTONE: lt brn gry, vf-v crs, dom  
m-crs, sbang-rnd, p srtd, wk sil cmt,  
tr-com lt brn argill & slt mtrx,  
quartzose w/clr-op qtz gr w/mnr brn  
stn, tr gr gry & blk cht lit, tr blk c detr,  
fri, gd-v gd inf por, n fluor

CLAYSTONE: m-dk brn, sli silty & f  
aren i/p, mod-v carb, tr blk c flks, sft,  
v disp, n fiss

COAL: m brn-blk, irr-blky frac, ea lstr,  
sli-dom v argill, tr amb, frm-mod hd

WOB: 0.5 - 11.9 klb  
RPM: 14 - 141  
SPP: 364 - 1233 psi

WOB: 0.5 - 9.1 klb  
RPM: 31 - 121  
SPP: 287 - 1234 psi

1000  
1010  
1020  
1030  
1040  
1050  
1060  
1070  
1080  
1090  
1100  
1110  
1120  
1130  
1140

CLAYSTONE: m-dk brn, sli slty & i  
aren, mod-v carb, tr blk c flks, sft, v  
disp, n fiss

COAL: m brn-blk, irr-blky frac, ea lstr,  
sli-dom v argill, tr amb, frm-mod hd

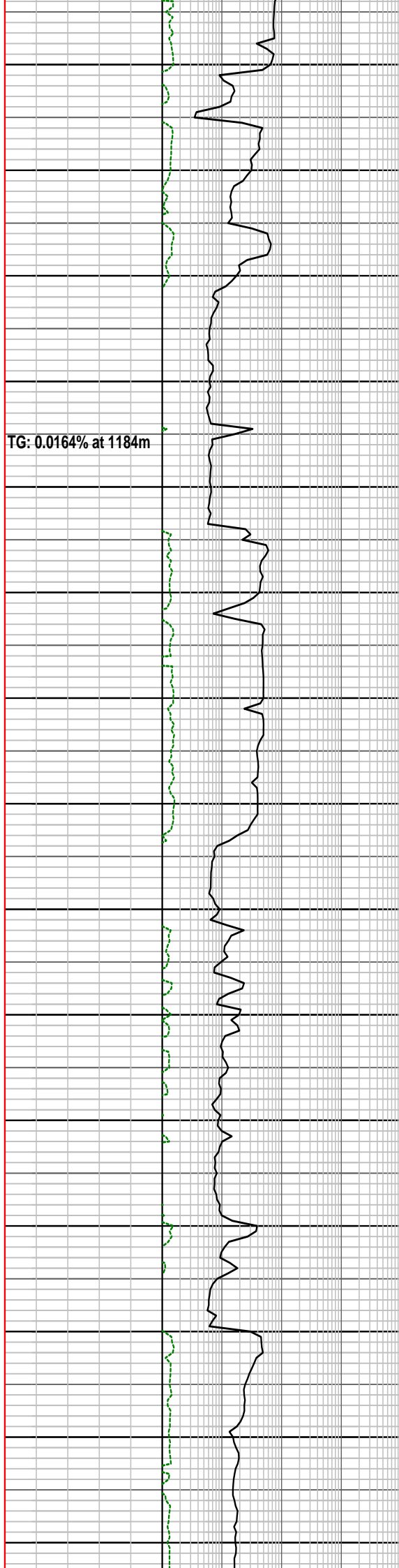
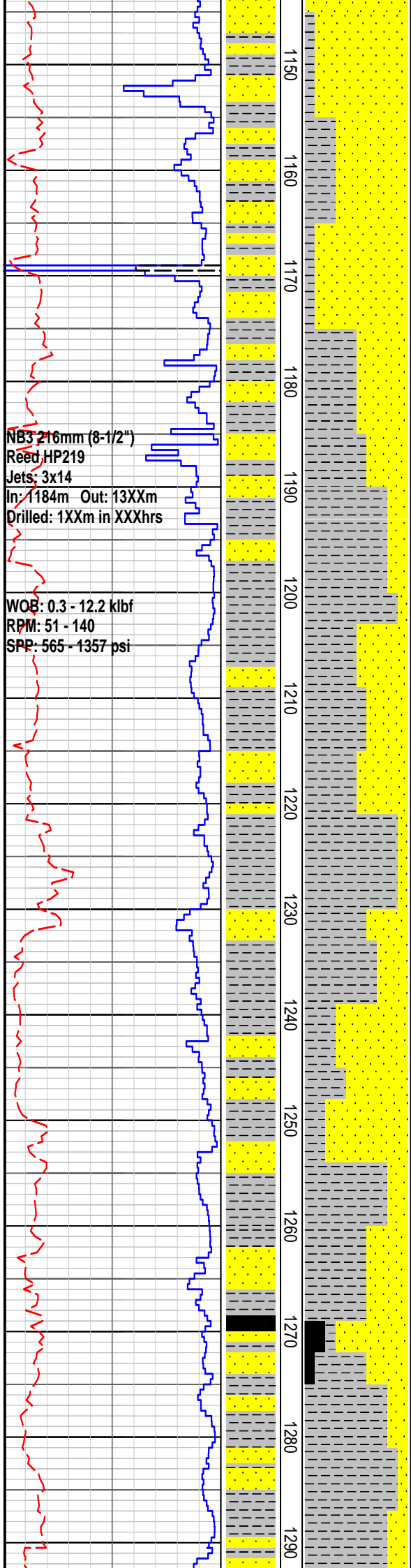
COAL: m brn-blk, irr-blky frac, ea lstr,  
sli-dom v argill, tr amb, frm-mod hd

Survey at 1079m  
N88degSE  
3 degs

SANDSTONE: lt brn gry, vf-pbl, dom  
m-crs, sbang-rnd, v p srted, wk sil cmt,  
com lt brn argill & slt mtrx, qtz  
w/clr-op quartzose gr w/mnr or brn  
stn, tr gn gry & blk cht lith, tr-com blk  
c detr, fri, g inf por, n fluor

COAL: m brn-dom blk, irr-blky frac,  
ea-sbvlt lstr, sli-v argill, tr amb, mod  
hd. The Coal has no natural fluor but  
gives a wk dull lt yel rn crsh cut fluor.  
The amb has mod bri sol lt-m yel  
natural fluor and gives a wk v slo  
strmg lt yell cut fluor

SANDSTONE: v lt gry-lt brn gy, v f-gt,  
dom m-crs, ang-sbrnd, v p srted, wk sil  
cmt, com wh-lt brn argill & slt mtrx,  
quartzose w/clr-op qtz gr, tr gn gry  
& blk cht lith, tr-com blk c detr, fri, gd  
inf por, no fluor

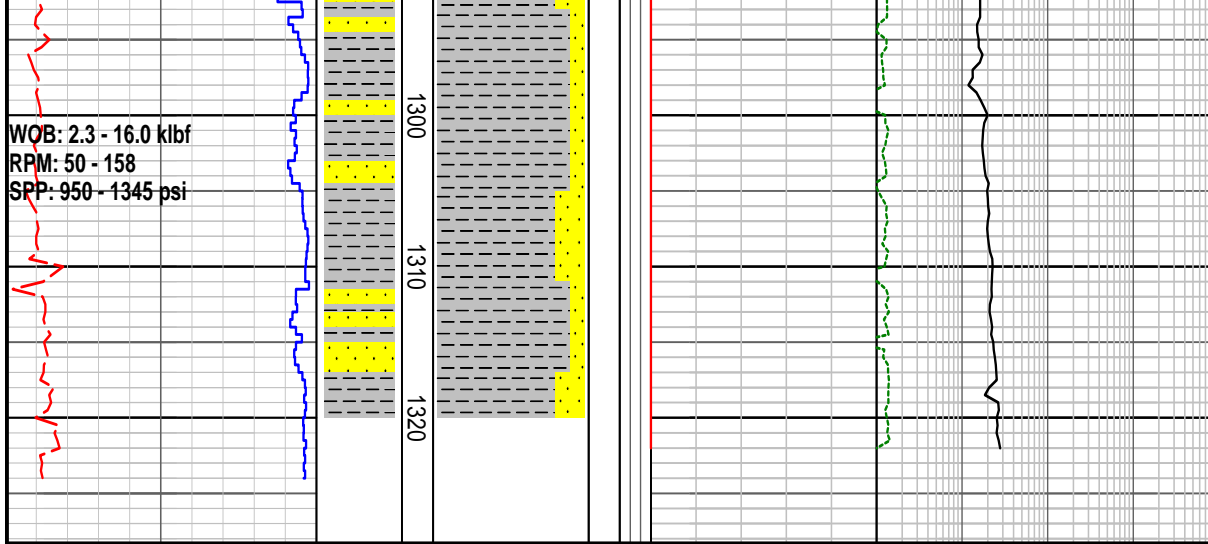


CLAYSTONE: wh-m brn, v slt & v aren  
i/p, kao i/p, sli-mod carb, tr blk c flks,  
tr micrmic, frm, v disp & washing  
f/spl, n fiss

SANDSTONE: v lt gry-lt brn gy, v f-v  
crs, dom m-crs, ang-sbrnd, v p srtd,  
mod sil cmt, com-abd wh-lt brn argill  
& slt mtrx, quartzose w/clr-op qtz gr,  
rr gn & blk cht lith, tr blk c detr,  
fri-mod hd, fr-gd inf por, no fluor

CLAYSTONE: off wh-m brn, v slt & v  
aren, v kao i/p, sli carb, tr blk c flks, tr  
micrmic, frm-mod hd, v disp, n fiss

COAL: v dk brn-dom blk,  
blk-y-sbconch frac, ea-sli sbvit lstr,  
sli-m argill, mod hd.



**CLAYSTONE:** off wh-m brn, v slt & v f  
aren, v kao i/p, sli carb, tr blk c flks, tr  
micmic, rr pyr, frm-mod hd, v disp, n  
fiss

# FORMATION EVALUATION LOG

RATE OF PENETRATION											TOTAL GAS											CHROMATOGRAPH											REMARKS																					
ROP (0-100m/hr)											OIL SHOWS											Methane ppm																																
Backup ROP (100-200m/hr)											CORE											Ethane ppm																																
WOB (klb)											LITHOLOGY											Propane ppm																																
											INTERPRETED											iso-Butane ppm																																
											LITHOLOGY											BACKUP TOTAL GAS											n-Butane ppm																					
											MD meters 1:500											%											iso-Pentane ppm																					
																						%											n-Pentane ppm																					
																																	10   100   1000   10000																					