



Company : Apache

Well : Coelacanth-1

Interval : 123.00 - 2001.37 meters

Created : 18/Mar/2008 6:27:03 AM

INTEQ

FORMATION EVALUATION LOG

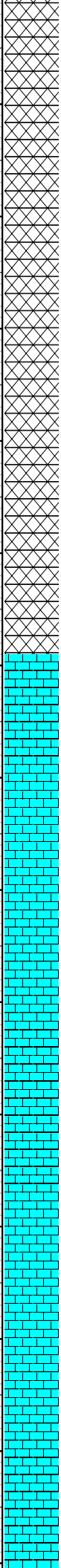
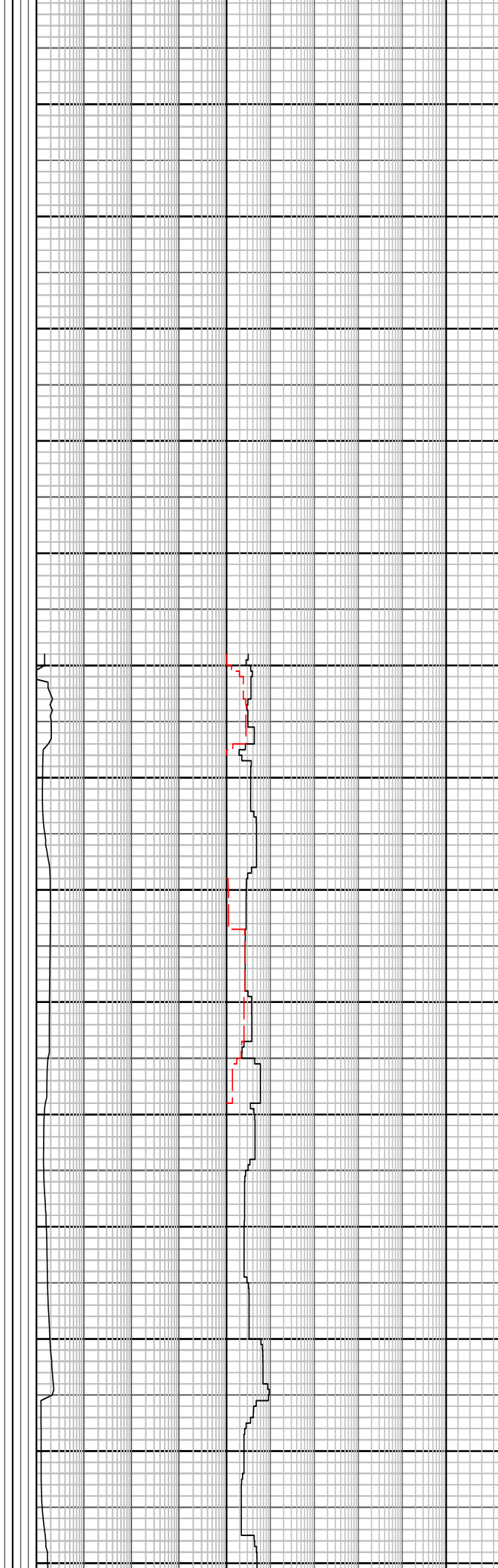
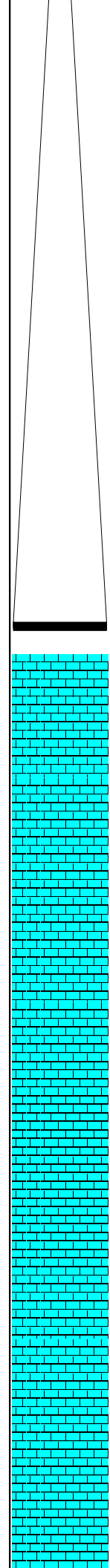
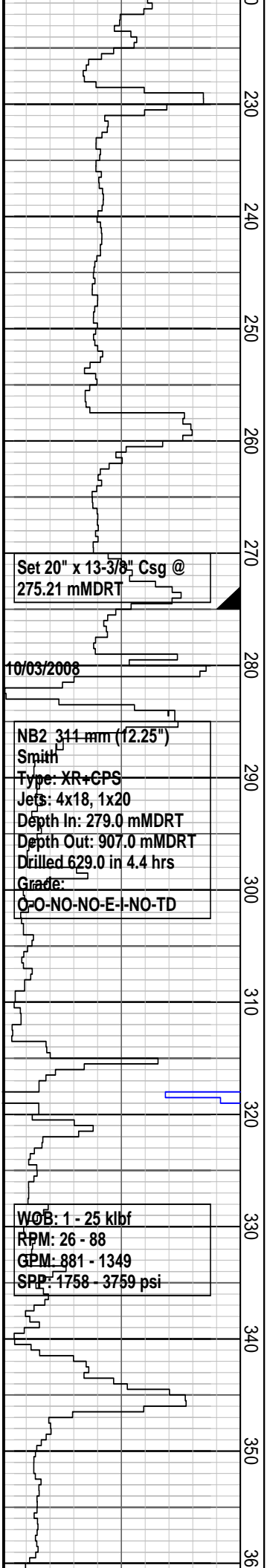
Drilling Rate		MD meters 1:500	TVDRT meters	Cuttings Lithology	Oil Show P F G	Visual Inferred Porosity P F G	Gas Data		Chromatograph Data		Calcmetry	Interpreted Lithology	Lithology Description			
ROP (m/hr)	ROP (m/hr)						Gas Hydrocarbon Avg %	Methane ppm	Ethane ppm	Propane ppm				iso-Butane ppm	n-Butane ppm	iso-Pentane ppm
200	20	130					0.01 0.1 1 10	100000	100000	100000	100000	100000	100000	RT - AHD: 38.0 mMDRT Water Depth: 90.0 mMDRT RT - Seabed: 128.0 mMDRT		
180	40	140						1	1	1	1	1	1	Spud Coelacanth-1 @ 1300hrs on 10/03/2008		
160	60	150						1	1	1	1	1	Drill with sea water and hi-vis pills, returns to sea bed from 128.0 m to 279.0 mMDRT			
140	80	160						1	1	1	1	1				
120	100	170						1	1	1	1	1				
100	120	180						1	1	1	1	1				
80	140	190						1	1	1	1	1				
60	160	200						1	1	1	1	1				
40	180	210						1	1	1	1	1				
20	200	220						1	1	1	1	1				

1RR 660 mm (26")
 Smith
 Type: XR+C
 Jets: 4x18
 Depth In: 127.5 mMDRT
 Depth Out: 279.0 mMDRT
 Drilled 151.0 m in 119 hrs
 Grade:
 1-1-WT-A-E-I-NO-TD

Drill with sea water and hi-vis pills, returns to sea bed from 128.0 m to 279.0 mMDRT

MW: 1.06 sg FV: 140
PV : 13 YP: 56
Gels: 44/48/- pH: 9.15

660 mm (26") Section TD @
279.0 mMDRT on 10/03/2008



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

10/03/2008

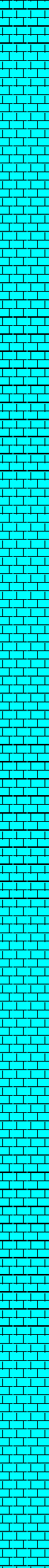
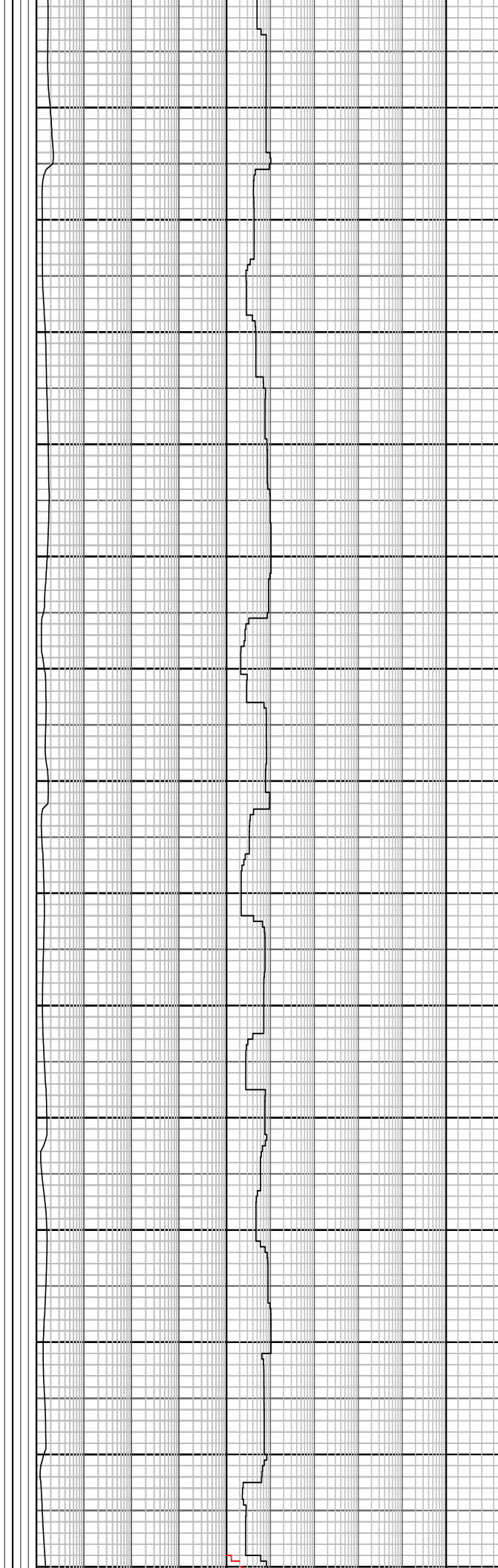
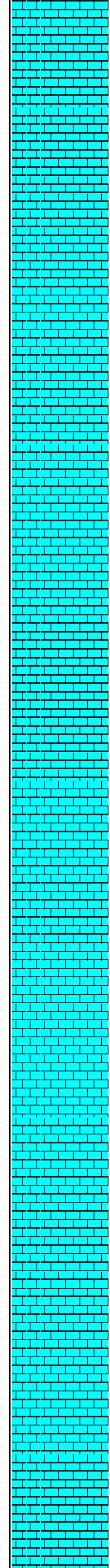
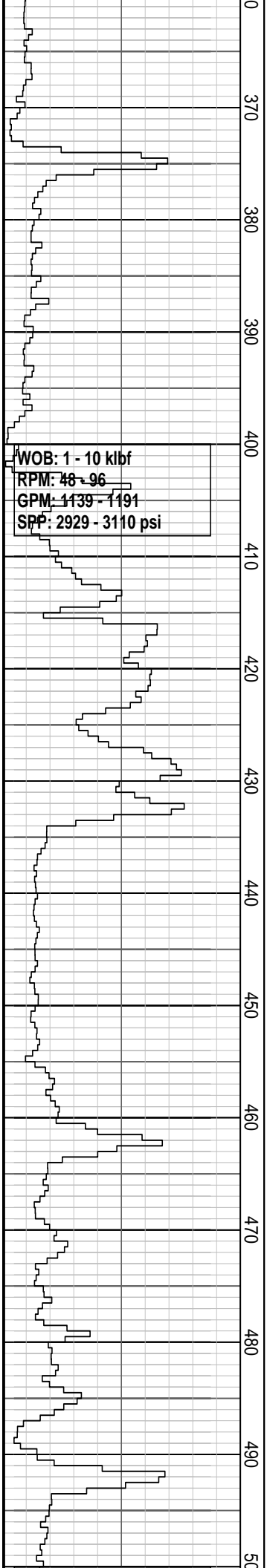
NB2 311 mm (12.25")
Smith
Type: XR+GPS
Jets: 4x18, 1x20
Depth In: 279.0 mMDRT
Depth Out: 907.0 mMDRT
Drilled 629.0 in 4.4 hrs
Grade:
O-O-NO-NO-E-I-NO-TD

WOB: 1 - 25 klf
RPM: 26 - 88
GPM: 881 - 1349
SPP: 1758 - 3759 psi

CALCARENITE: lt-m gy, lt-m
bl gy, lt olv gy, tr carb spks,
com foss frag, tr v f qtz grs,
mod hd-hd, sbbky-blky

CALCISILITE: wh-lt gy, com
lt-m gry, com foss, mod
hd-hd, sbbky-blky

CALCILUTITE: v lt gy-lt gy, lt
bl gy, off wh, mnr lt-m gy, lt
brn gy, com foss, tr-rr f qtz
grs, frm-mod hd, sbbky-blky



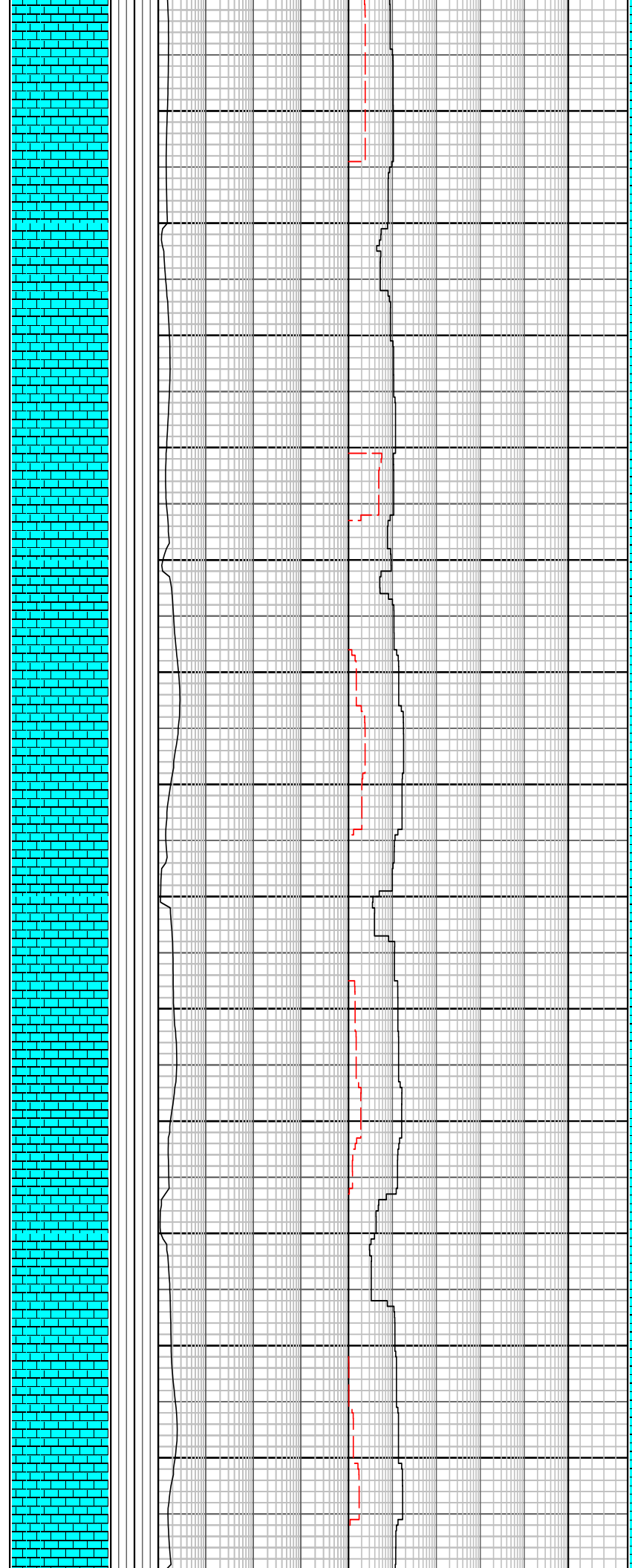
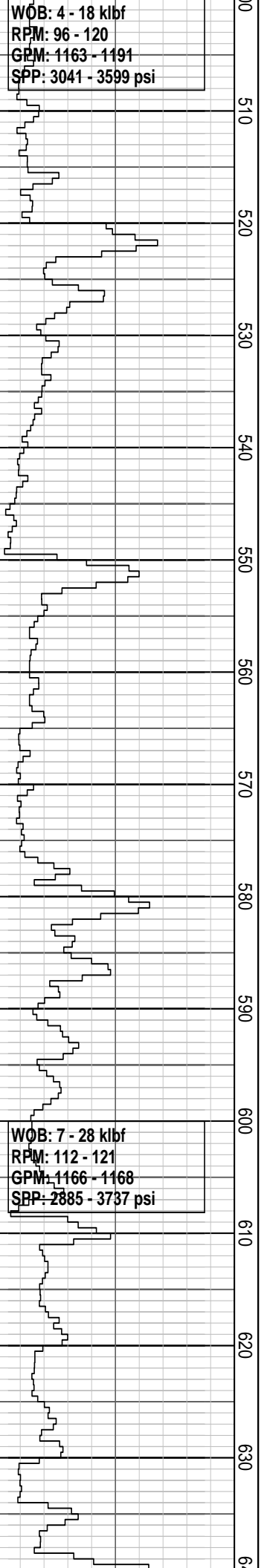
CALCARENITE: lt-m gy, lt olv gy, mnr m gy, com foss frags, mod hd-hd, sbblky-blky

CALCILUTITE: v lt gy-lt gy, lt bl gy, off wh, mnr lt-m gy, lt brn gy, com foss, tr- rr f qtz grs, frm-mod hd, sbblky-blky

CALCARENITE: lt-m gy, lt olv gy, mnr m gy, com foss frags, mod hd-hd, sbblky-blky

WOB: 4 - 18 klbf
RPM: 96 - 120
GPM: 1163 - 1191
SPP: 3041 - 3599 psi

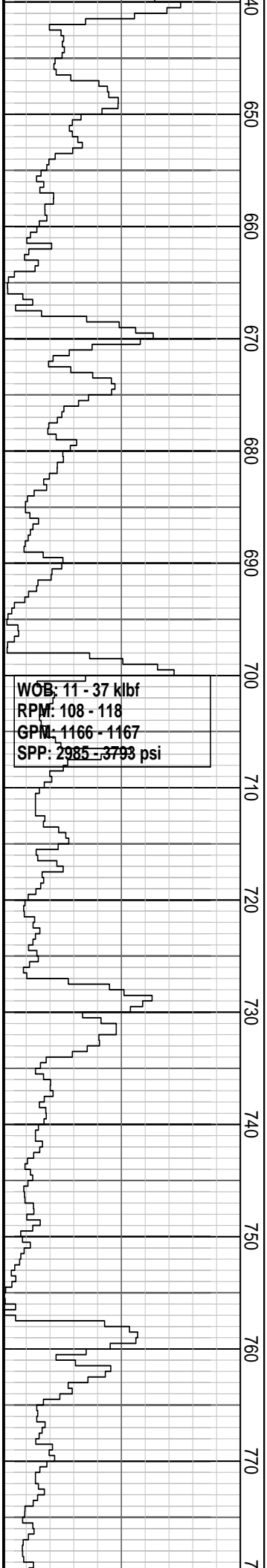
WOB: 7 - 28 klbf
RPM: 112 - 121
GPM: 1166 - 1168
SPP: 2885 - 3737 psi



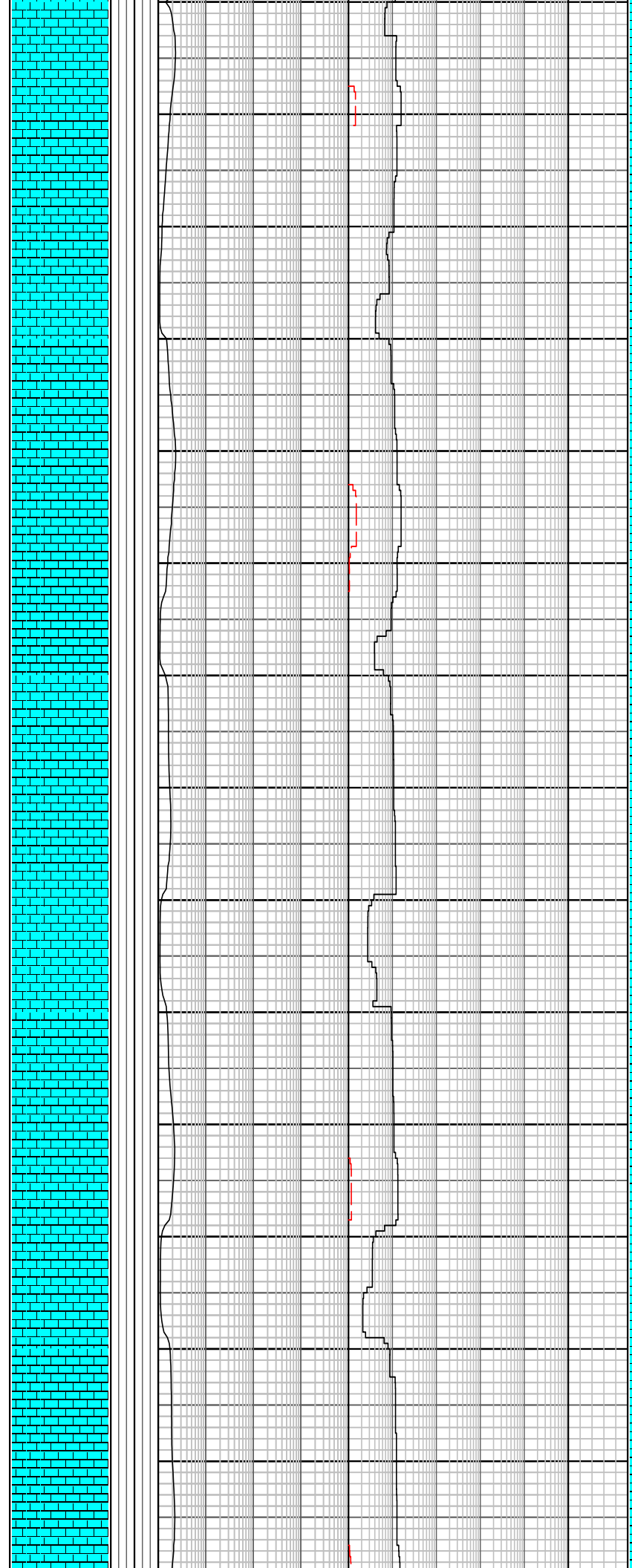
CALCARENITE: lt-m gy, lt olv
gy, mnr m gy, com foss
frags, mod hd-hd,
sbbiky-blky

CALCARENITE: lt-m gy, lt olv
gy, mnr m gy, com foss
frags, mod hd-hd,
sbbiky-blky

CALCARENITE: lt-m gy, lt-m
olv, lt brn gy, tr com foss
frags, com fn-m qtz grs, mod
hd, sbbiky-blky



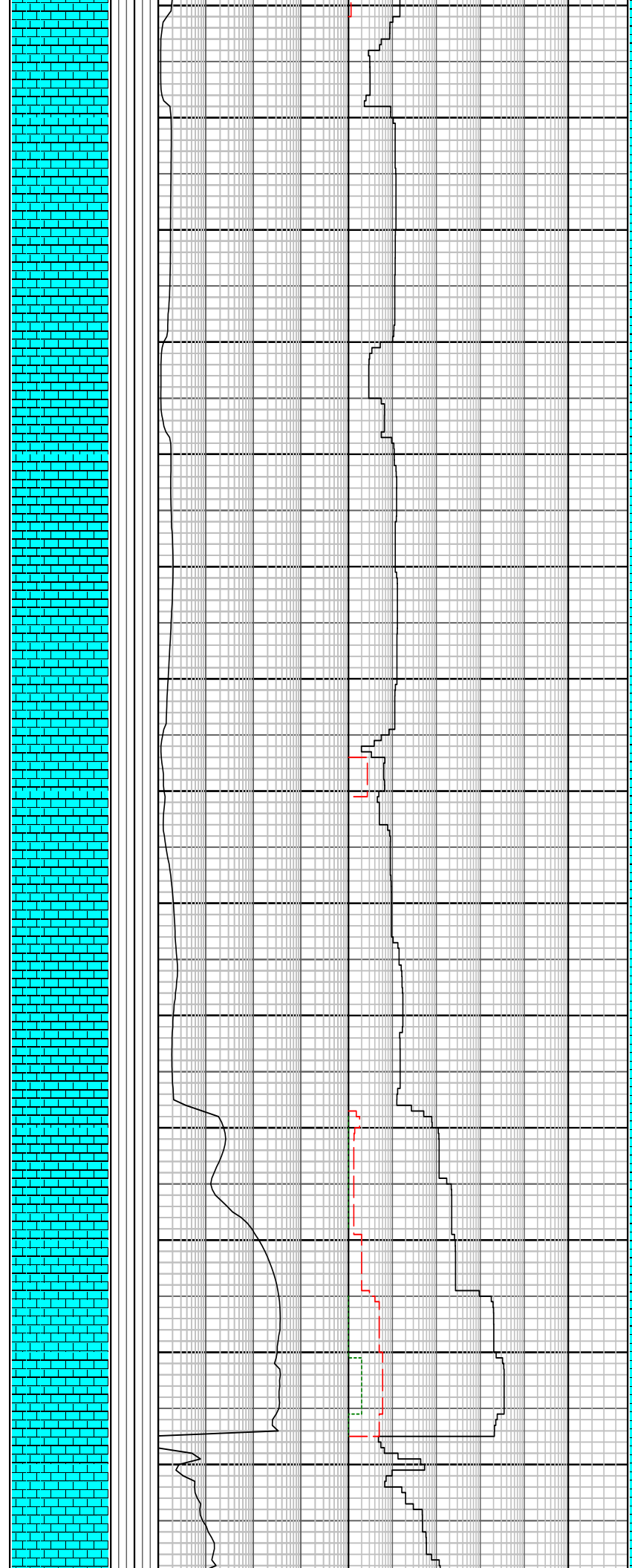
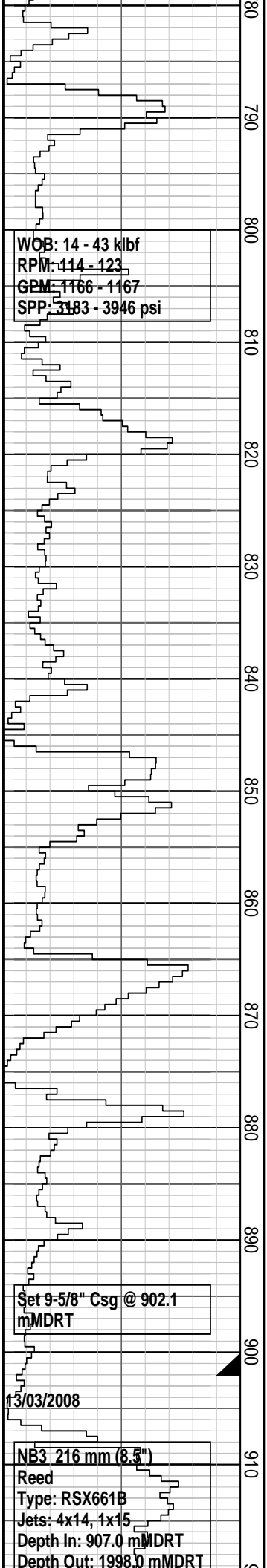
WOB: 11 - 37 klb
RPM: 108 - 118
GPM: 1166 - 1167
SPP: 2985 - 3793 psi



CALCARENITE: lt-m gy, lt-m olv, lt brn gy, tr com foss frags, com fn-m qtz grs, mod hd, sbblky-blky

CALCARENITE : lt-m gy, lt bl gy ,mnr m dk gy, com v fn-fn qtz grs, com foss frags, mod hd-hd, sbblky-blky

CALCARENITE : lt-m gy, pred m gy, lt bl gy, mnr m dk gy, com v fn-fn qtz grs, com foss frags, mod hd-hd, sbblky-blky



CALCARENITE : lt-m gy, pred m gy, lt bl gy, mnr m dk gy, com v fn-fn qtz grs, com foss frags, mod hd-hd, sbbkly-blky

MW: 1.15 sg FV: 43
 PV : 9 YP: 11
 Gels: 4/9/- pH: 8.00

CALCARENITE : lt-m gy, pred m gy, lt bl gy, mnr m dk gy, com v fn-fn qtz grs, com foss frags, mod hd-hd, sbbkly-blky

CALCARENITE : lt-m gy, pred m gy, lt bl gy, mnr m dk gy, com v fn-fn qtz grs, com foss frags, mod hd-hd, sbbkly-blky

311 mm (12.25") Section TD @ 907.0 mMDRT on 13/03/2008

Drilled 1091 ft in 27.9 hrs

Grade: X-X-X-x

WOB: 18 - 54 klbf

RPM: 113 - 123

GPM: 1155 - 1171

SPP: 3463 - 3979 psi

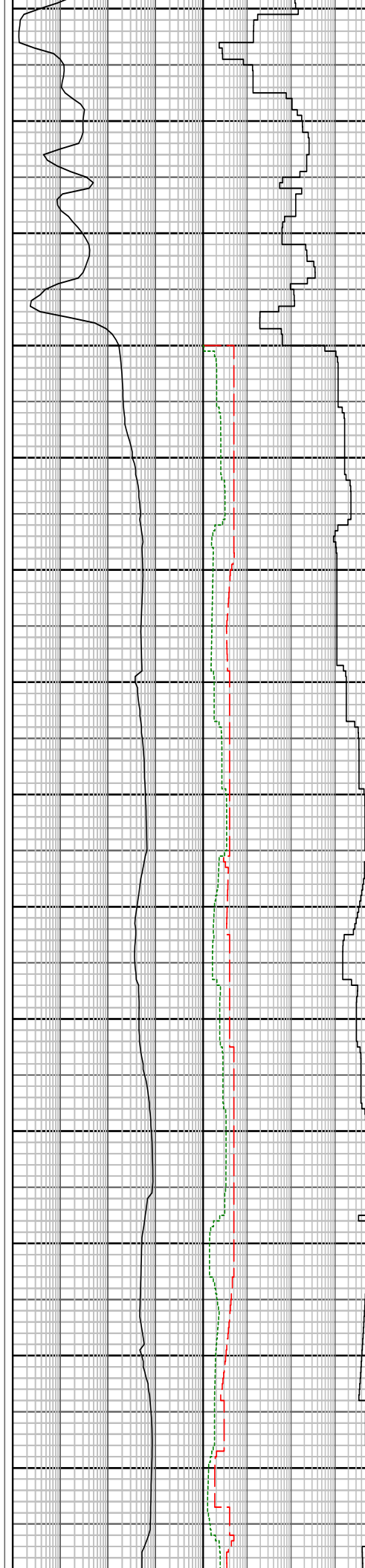
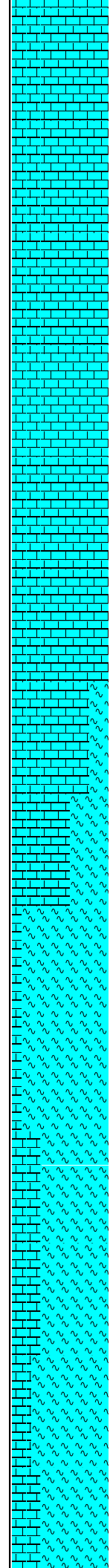
WOB: 6 - 63 klbf

RPM: 37 - 123

GPM: 446 - 1171

SPP: 909 - 3900 psi

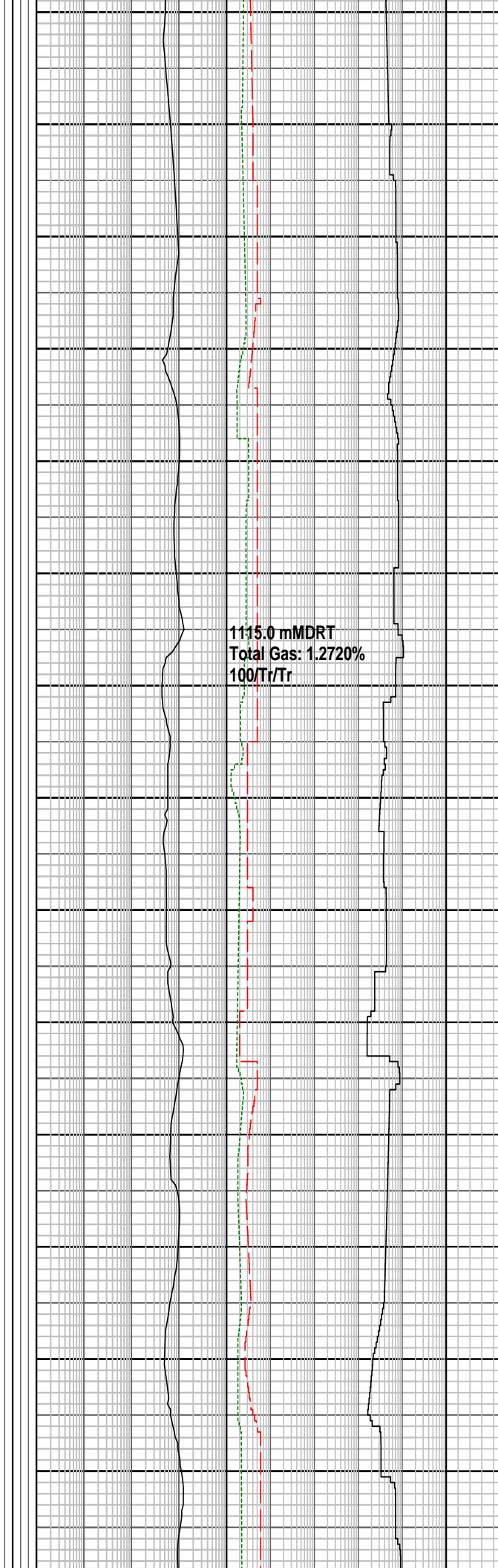
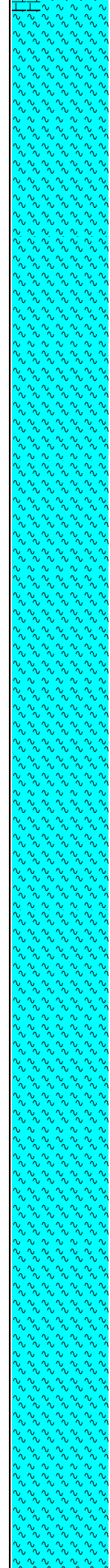
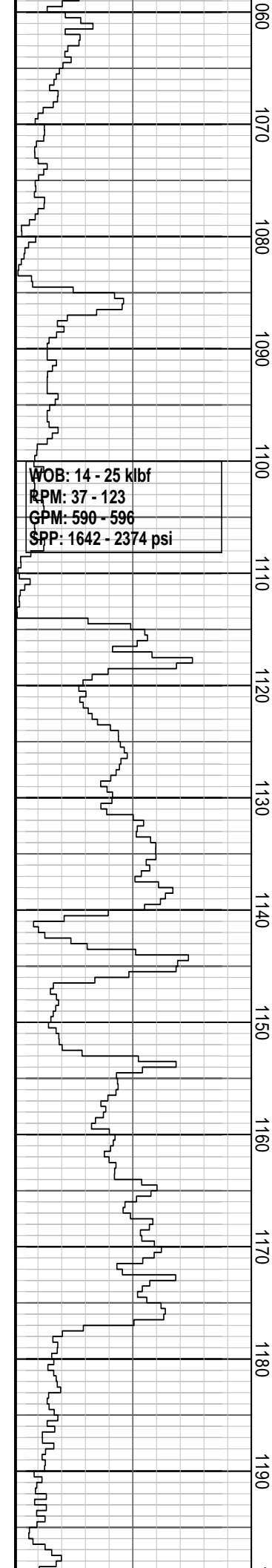
20
930
940
950
960
970
980
990
1000
1010
1020
1030
1040
1050
1



CALCARENITE : lt-m gy, pred m gy, lt bl gy, mnr m dk gy, com v fn-fn qtz grs, com foss frags, mod hd-hd, sbbiky-blky

MARL : lt gy-lt gnsh gy, lt brnsh gy-off wh, tr glauc grs, tr carb spks & micr lam, tr v fn qtz & calc grs, sft-disp, amor-sbbiky

CALCARENITE : lt-m gy, pred m gy, lt bl gy, mnr m dk gy, com v fn-fn qtz grs, com foss frags, mod hd-hd, sbbiky-blky



MARL: lt gy-lt gnsh gy, lt
brnsh gy-off wh, tr glauc grs,
tr carb spks & micr lam, tr v
fn qtz & calc grs, sft-disp,
amor-sbbkly

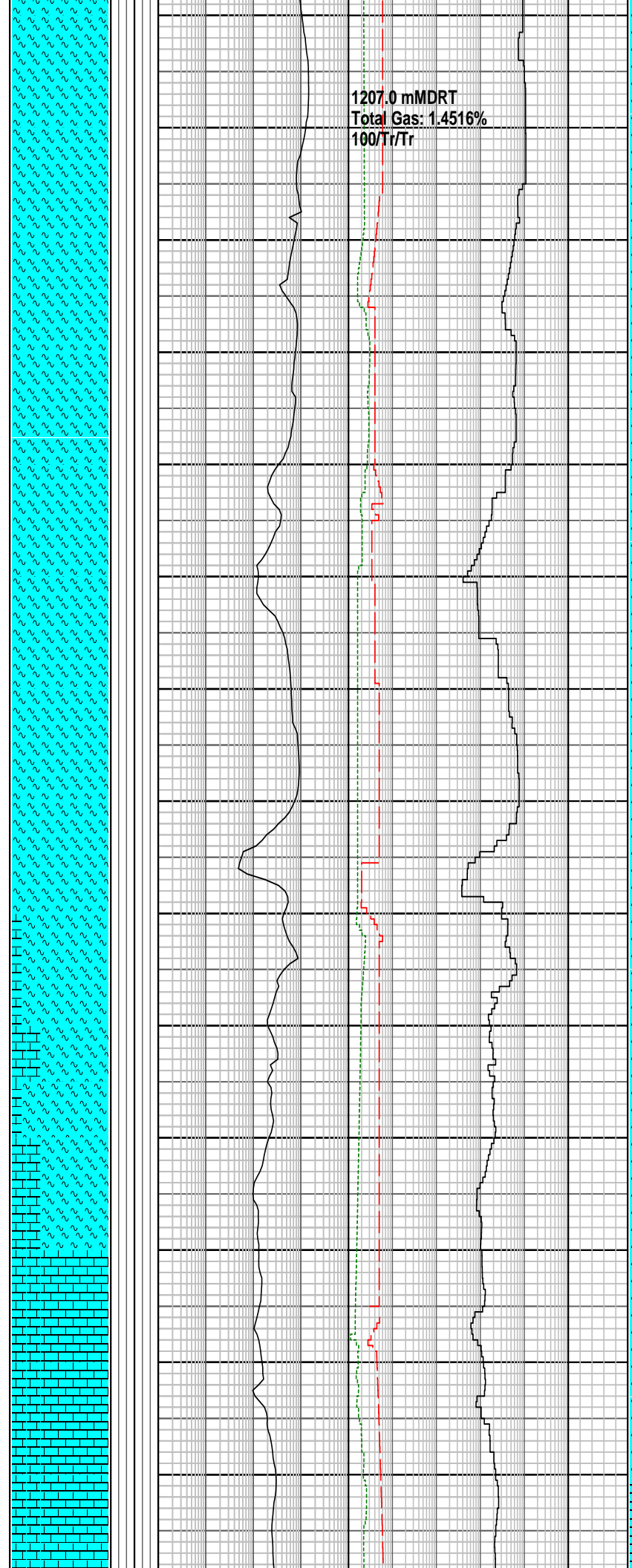
MARL: lt gy-lt gnsh gy, lt
brnsh gy-off wh, tr glauc grs,
tr carb spks & micr lam, tr v
fn qtz & calc grs, sft-disp,
amor-sbbkly

MARL: lt gy-lt gnsh gy, lt
brnsh gy-off wh, tr glauc grs,
tr carb spks & micr lam, tr v
fn qtz & calc grs, sft-disp,
amor-sbbkly

WOB: 10 - 27 klbf
RPM: 99 - 144
GPM: 440 - 674
SPP: 4389 - 2575 psi

WOB: 15 - 49 klbf
RPM: 105 - 144
GPM: 576 - 696
SPP: 1464 - 3880 psi

200
1210
1220
1230
1240
1250
1260
1270
1280
1290
1300
1310
1320
1330

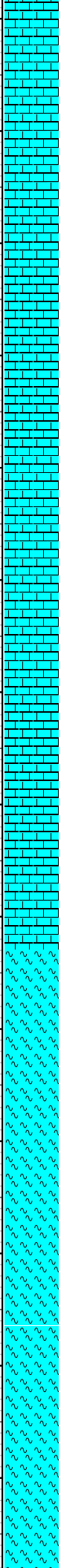
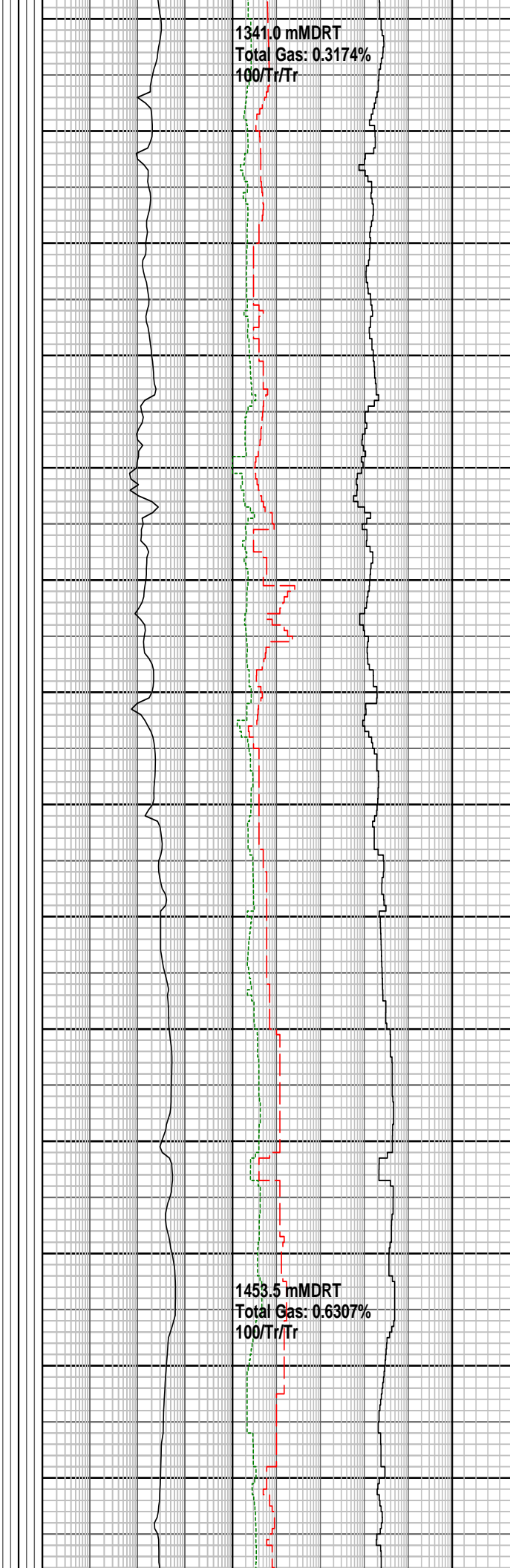
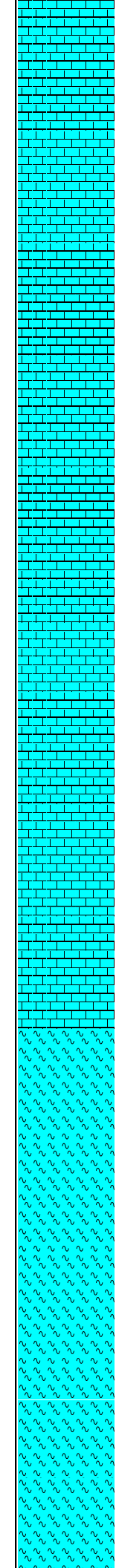
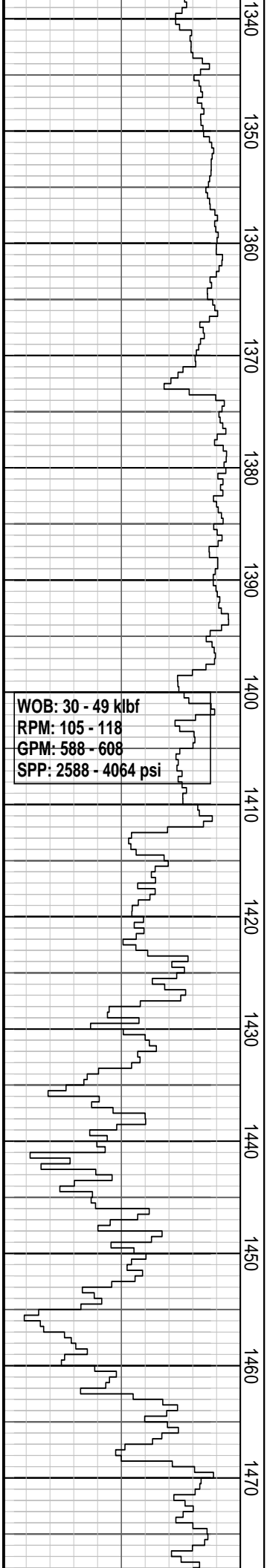


MARL: lt gy-lt gnsh gy, lt brnsh gy-off wh, tr glauc grs, tr carb spks & micr lam, tr v fn qtz & calc grs, sft-disp, amor-sbblky

MARL: lt gy-lt gnsh gy, lt brnsh gy-off wh, tr glauc grs, tr carb spks & micr lam, tr v fn qtz & calc grs, sft-disp, amor-sbblky

MARL: lt gy-lt gnsh gy, lt brnsh gy-off wh, tr glauc grs, tr carb spks & micr lam, tr v fn qtz & calc grs, sft-disp, amor-sbblky

MW: 1.14 sg FV: 58
PV : 17 YP: 25
Gels: 10/12/15 pH: 8.90



CALCILUTITE: pl gy, off wh-pl gy, lt-m brn gy, com carb spks, abd arg, mod hd-disp, sbbiky

Carbide Run @ 1381mMDRT
 Theo: 2070stks. Actual: 2380stks
 Hole washout = 15.0%

CALCARENITE : pl gy, off wh-pl gy, lt-m brn gy, com fn-crs rnd qtz grs, abd arg, com carb spks, mod hd, disp, sbbiky

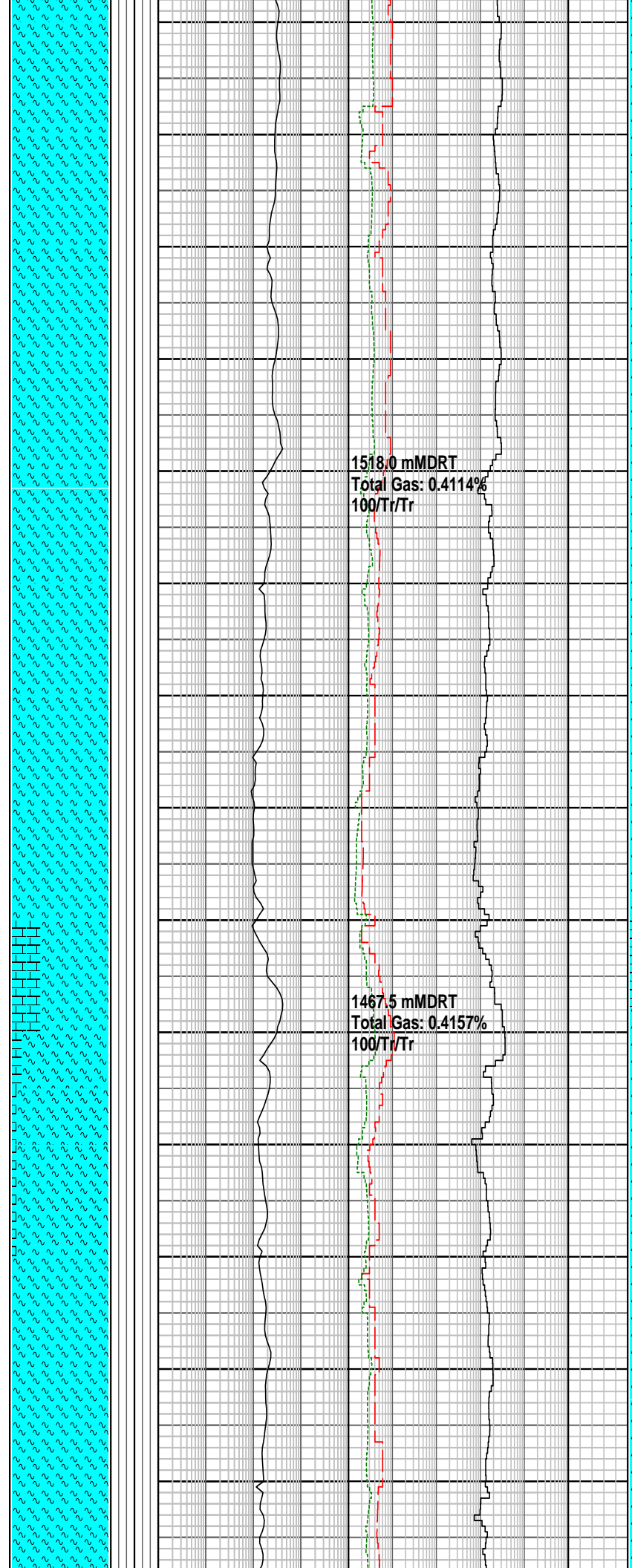
CALCILUTITE: pl-m gy, off wh-pl gy, lt-m brn gy, com carb lam & spks, abd arg, mnr sph qtz grs, mod hd-hd, disp i/p, sbbiky

17/03/2008

WOB: 24 - 42 kllbf
RPM: 81 - 112
GPM: 594 - 602
SPP: 2565 - 3483 psi

WOB: 23 - 41 kllbf
RPM: 78 - 124
GPM: 490 - 610
SPP: 2227 - 3596 psi

1480
1490
1500
1510
1520
1530
1540
1550
1560
1570
1580
1590
1600
1610



1518.0 mMDRT
Total Gas: 0.4114%
100/Tr/Tr

1467.5 mMDRT
Total Gas: 0.4157%
100/Tr/Tr

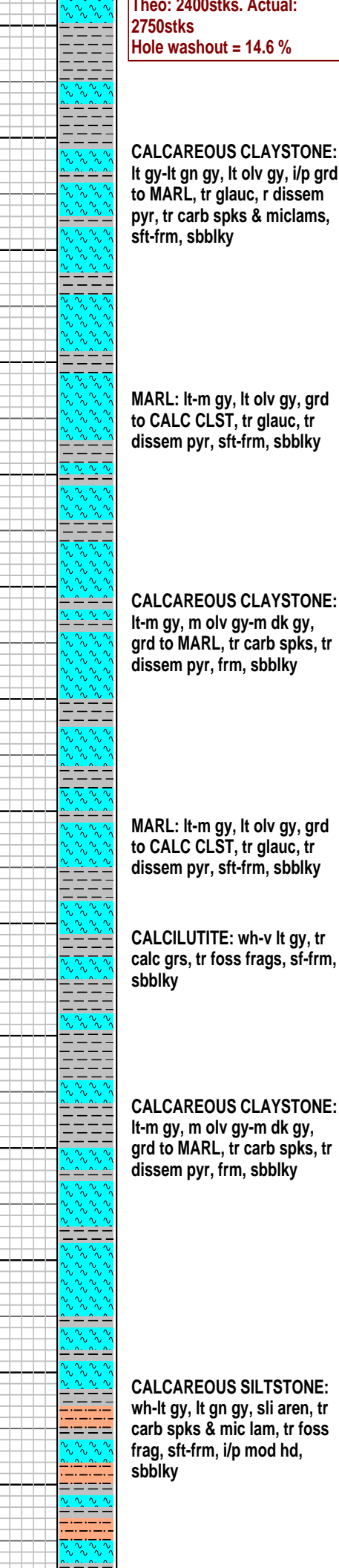
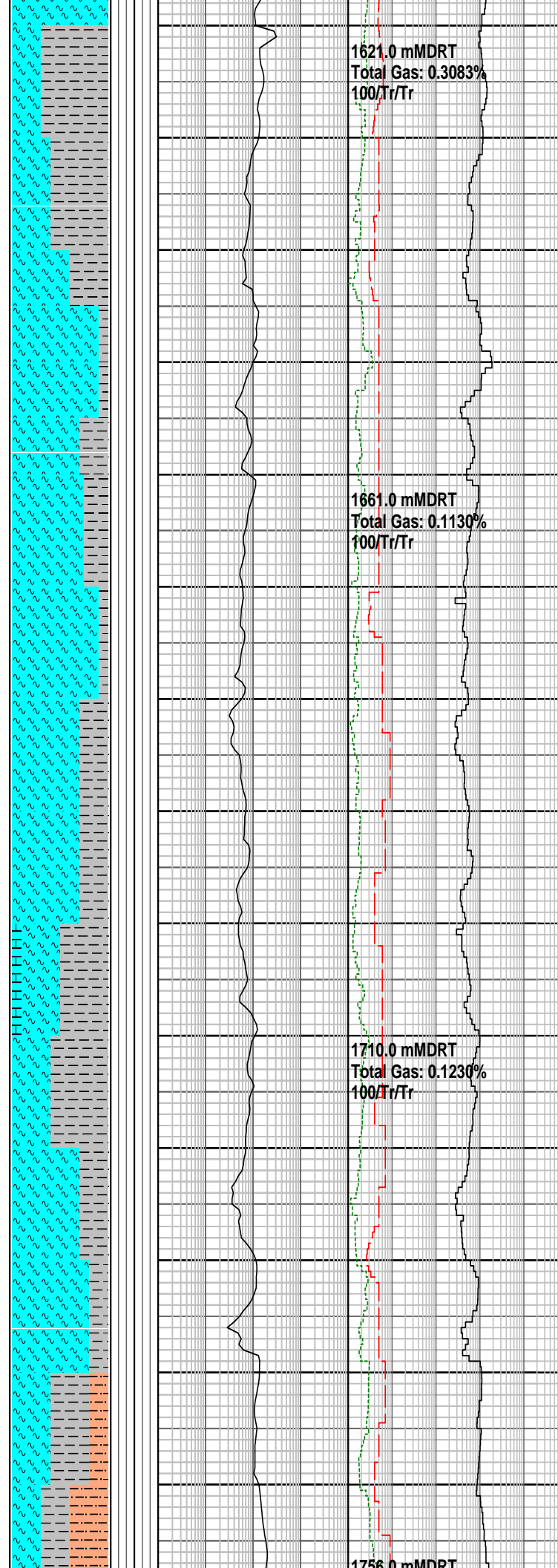
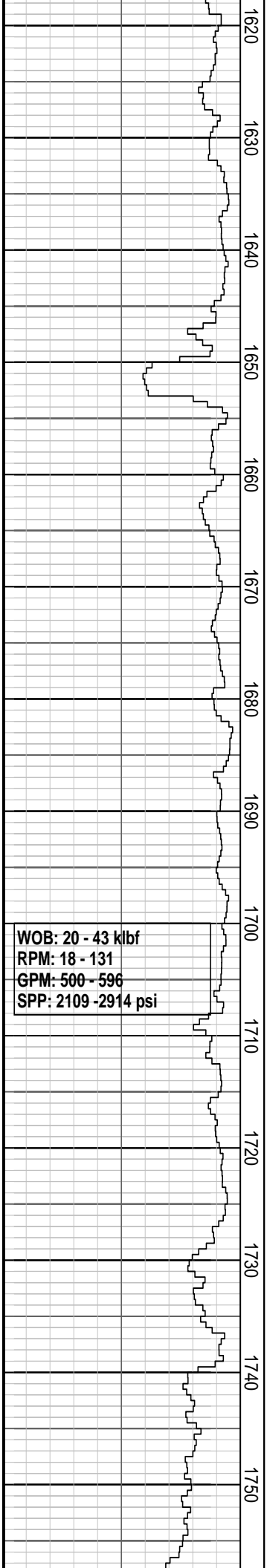
MARL: lt-m gy, m brnsh gy,
off wh, abd arg mat, com
carb lam & spks, occ lit, mnr
fn-med sph qtz grs, loc slit
lam & grd to CALCISILTITE,
mod hd-hd, sbbly-blky, disp
i/p

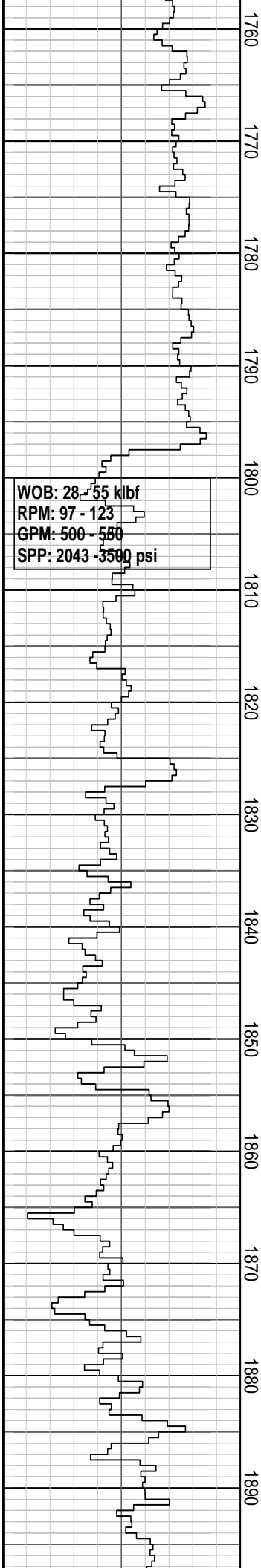
MARL: pl-med gy, lt brn gy,
trnsi i/p, com fn-crs ang-sph
qtz grs, com microfoss, abd
arg mat, mnr-loc com carb
lam & spks, mnr nod pyr,
frm-hd, sbbly

MARL: pl-m gy, m brn gy,
com ool, com microfoss, mnr
carb spks, occ nod & dissem
pyr, frm-mod hd, sbbly

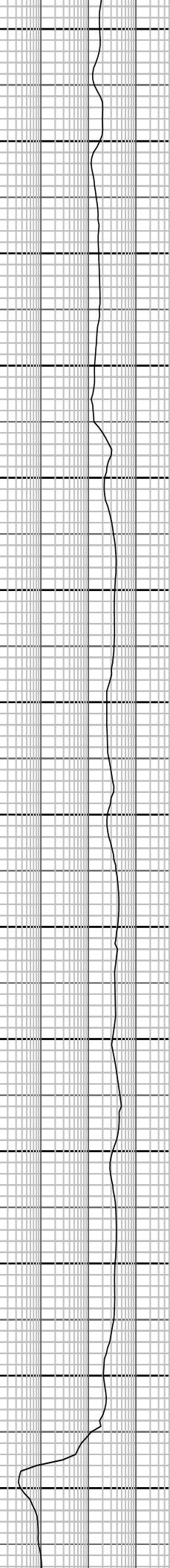
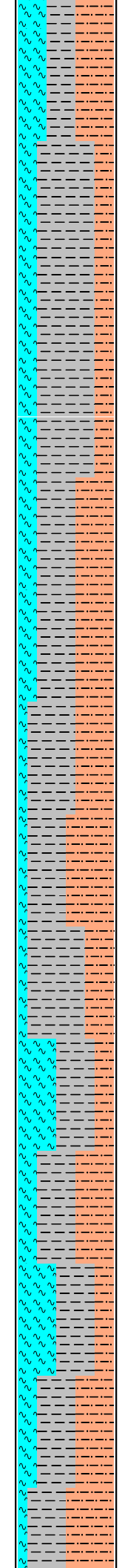
Carbide Run @ 1619mMDRT

Theo: 2400stks. Actual:
2750stks
Hole washout = 14.6 %





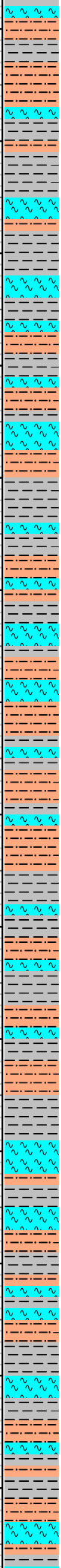
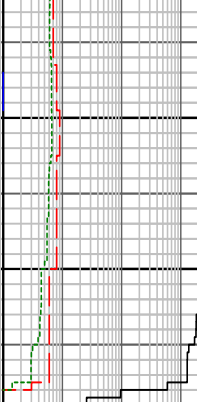
1760
1770
1780
1790
1800
1810
1820
1830
1840
1850
1860
1870
1880
1890



1750.0 mMDRT
 Total Gas: 0.1989%
 100/Tr/Tr

1785.0 mMDRT
 Total Gas: 0.1719%
 100/Tr/Tr

1856.0 mMDRT
 Total Gas: 0.1925%
 100/Tr/Tr



CALCAREOUS SILTSTONE:
 m gy-m gn gy, m olv gy, aren
 grd calc to SLST, tr carb
 spks, tr glauc, frm-mod hd,
 sbbiky-blky

CALCAREOUS CLAYSTONE:
 lt-m gy, m olv gy-dk gy, grd
 to MARL i/p, tr carb spks, tr
 disse pyr, tr glauc, frm-mod
 hd, sbbiky

CALCAREOUS SILTSTONE:
 m-dk gy, m olv gy tr disse
 pyr, tr carb spks, mod hd-hd
 sbbiky-blky, i/p sb fis.

CALCAREOUS CLAYSTONE:
 lt-m gy, m olv gy-dk gy, grd
 to MARL i/p, tr carb spks
 micr lam, tr disse pyr, tr
 glauc, frm-mod hd, sbbiky

