



Company : Apache

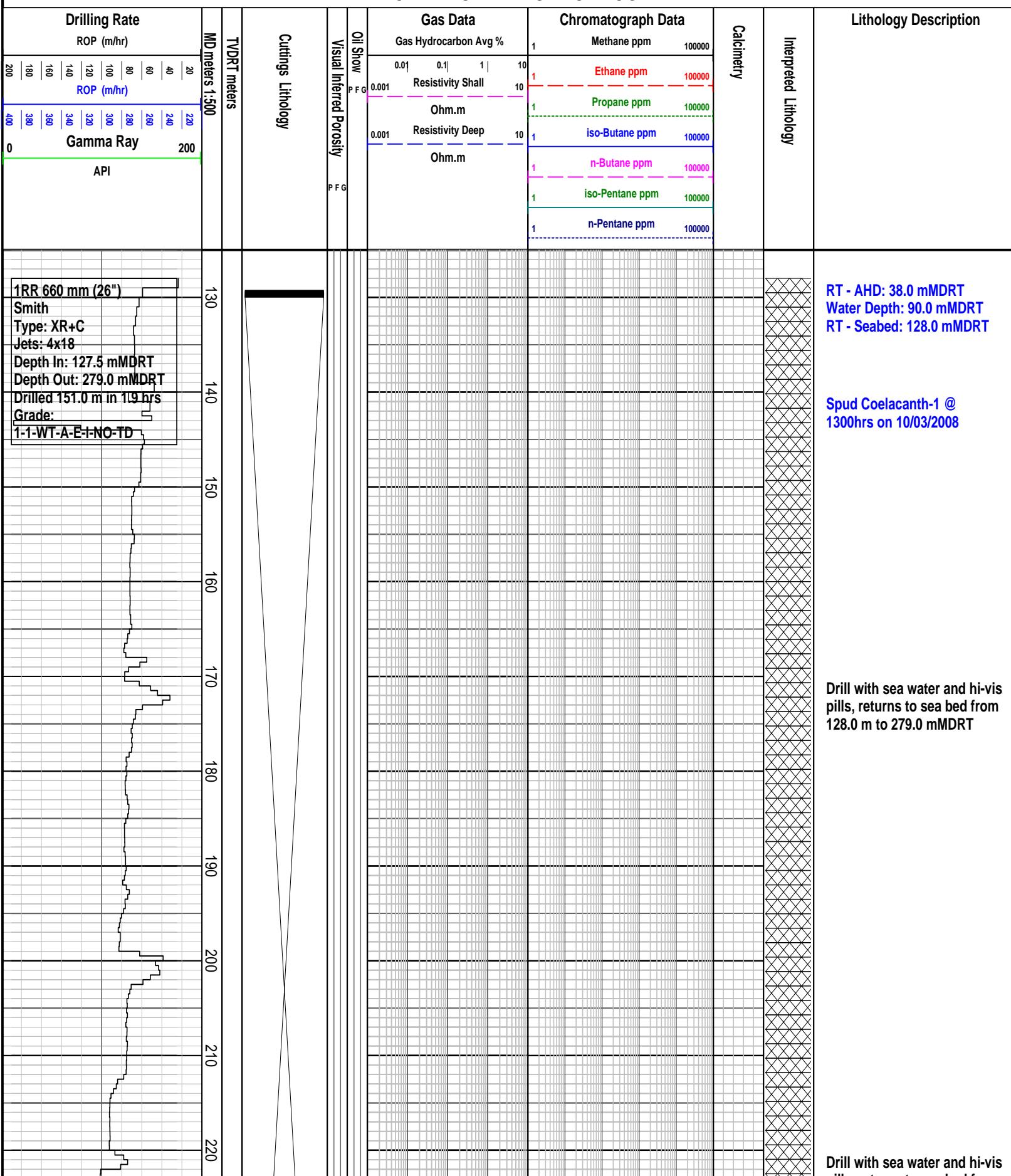
Well : Coelacanth-1

Interval : 125.00 = 2119.48 meters

INTEQ

Created : 19/Mar/2008 6:39:24 AM

FORMATION EVALUATION LOG



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+CPS
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

230 240 250 260 270 280 290 300 310 320 330 340 350 360

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, sbblk-blky

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

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

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

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

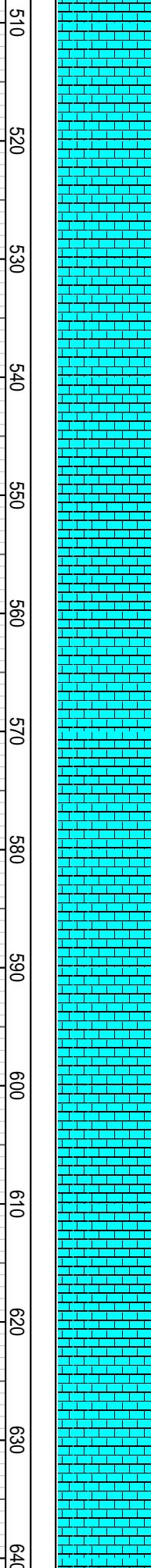
CALCARENITE: lt-m gy, lt olv

WOB: 1 - 10 klf
RPM: 48 - 96
GPM: 1139 - 1191
SPP: 2929 - 3110 psi

WOB: 4 - 18 klf

RPM: 96 - 120
GPM: 1163 - 1191
SPP: 3041 - 3599 psi

gy, mnr m gy, com foss
frags, mod hd-hd,
sbblkly-blky



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

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

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

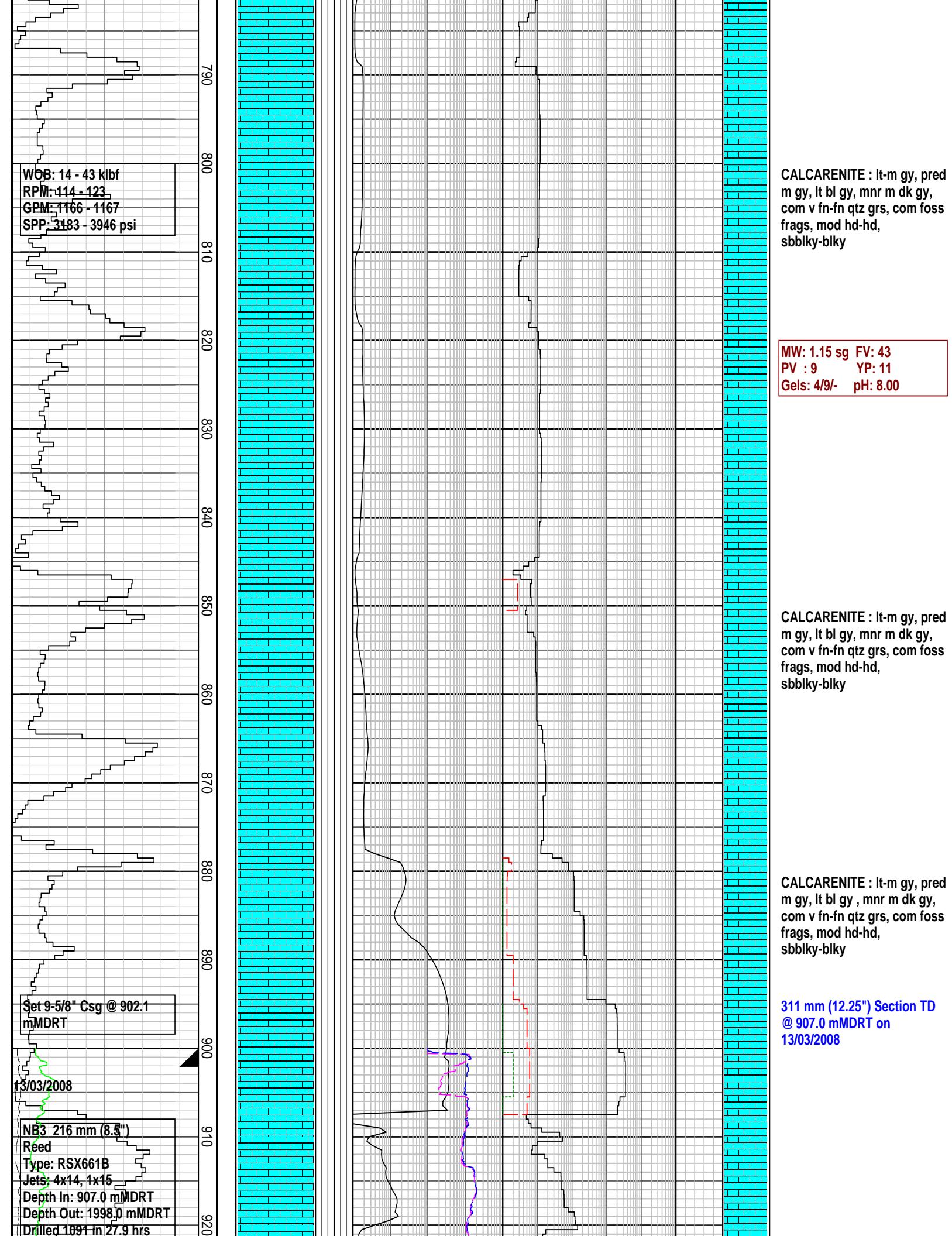
CALCARENITE: lt-m gy, lt-m olv, lt brn gy, tr com foss frags, com fn-m qtz grs, mod hd, sbblk-blky

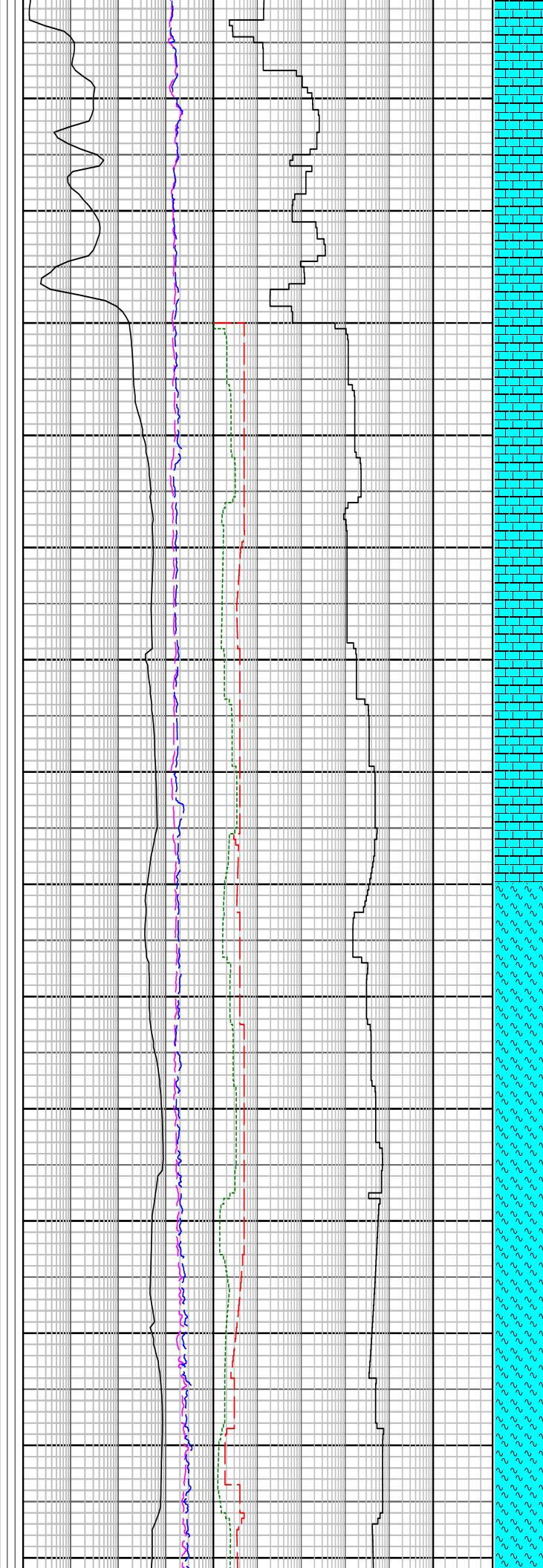
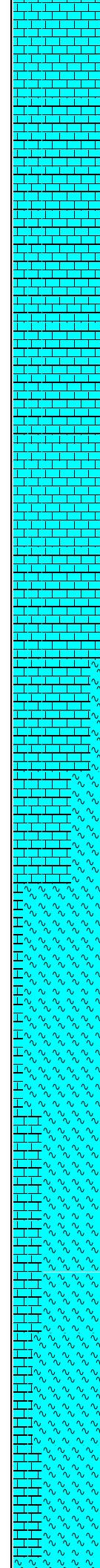
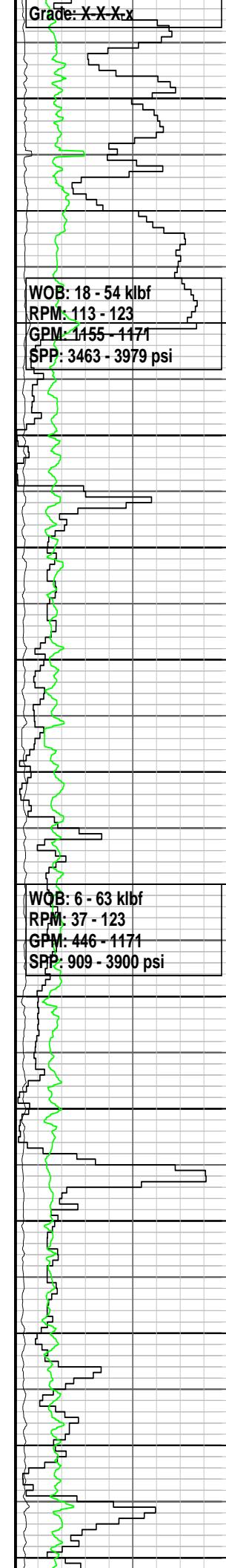
CALCARENITE : lt-m gy, lt bl gy ,mnr m dk gy, com v fn-fn qtz grs, com foss frags, mod hd-hd, sbblk-blky

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, sbblk-blky

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

650 660 670 680 690 700 710 720 730 740 750 760 770 780





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

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

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

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

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

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

1115.0 mMDRT
Total Gas: 1.2720%
100/Tf/Tr

WOB: 14 - 25 klf
RPM: 37 - 123
GFM: 590 - 596
SPP: 1642 - 2374 psi

WOB: 10 - 27 klf
RPM: 99 - 144
GPM: 440 - 614
SPP: 4389 - 2575 psi

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

1207.0 mMDRT
Total Gas: 1.4516%
100/Tr/Tr

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

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

MARL: It gy-it gnsh gy, It
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

1341.0 mMDRT
Total Gas: 0.3174%
100/Tr/Tr

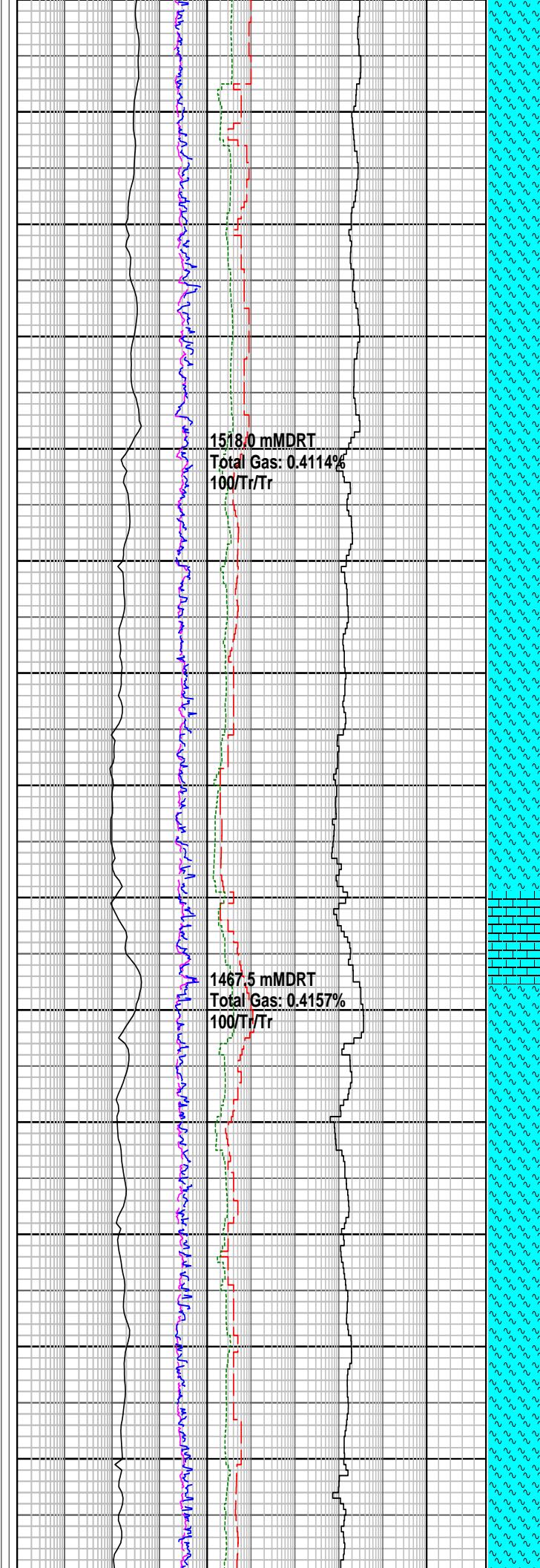
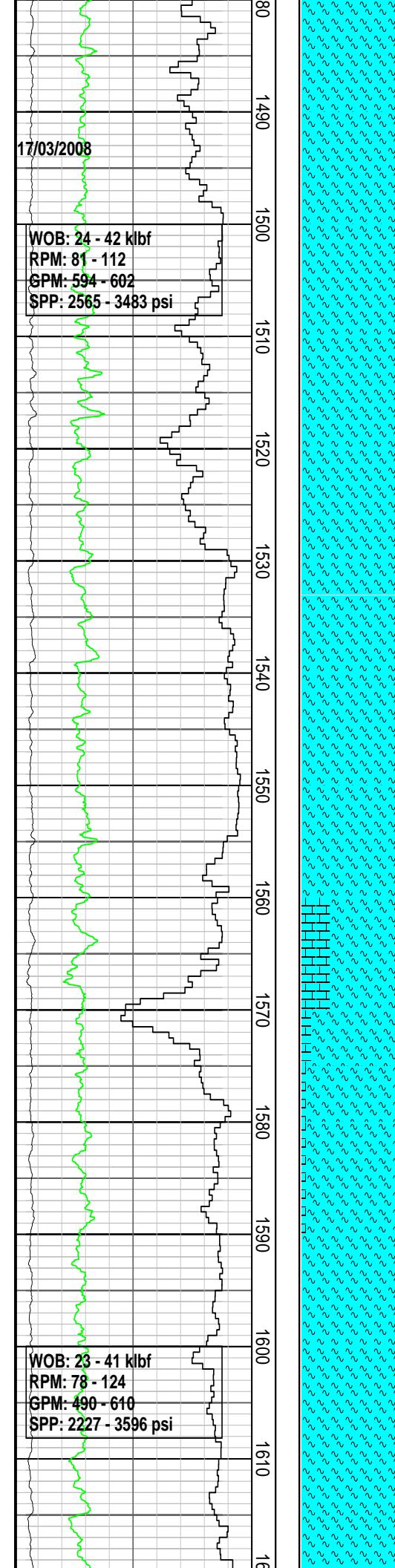
CALCILUTITE: pl gy, off
wh-pl gy, lt-m brn gy, com
carb spks, abd arg, mod
hd-disp, sbblk

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

WOB: 30 - 49 klf
RPM: 105 - 118
GPM: 588 - 608
SPP: 2588 - 4064 psi

1453.5 mMDRT
Total Gas: 0.6307%
100/Tr/Tr

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,
sbblk



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 slt lam & grd to CALCISILTITE, mod hd-hd, sbblkly-blky, disp i/p

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

MARL: pl-m gy, m brn gy, com ool, com microfos, mnr carb spks, occ nod & dissemin pyr, frm-mod hd, sbblkly

Carbide Run @ 1619mMDRT
Theo: 2400stks. Actual:
2752stks.

2750STKS
Hole washout = 14.6 %

1621.0 mMDRT
Total Gas: 0.3083%
100/Tr/Tr

CALCAREOUS CLAYSTONE:
It gy-lt gn gy, It olv gy, i/p grd
to MARL, tr glauc, r disse
pyr, tr carb spks & miclams,
sft-frm, sbblk

1661.0 mMDRT
Total Gas: 0.1130%
100/Tr/Tr

CALCAREOUS CLAYSTONE:
It-m gy, m olv gy-m dk gy,
grd to MARL, tr carb spks, tr
dissem pyr, frm, sbblk

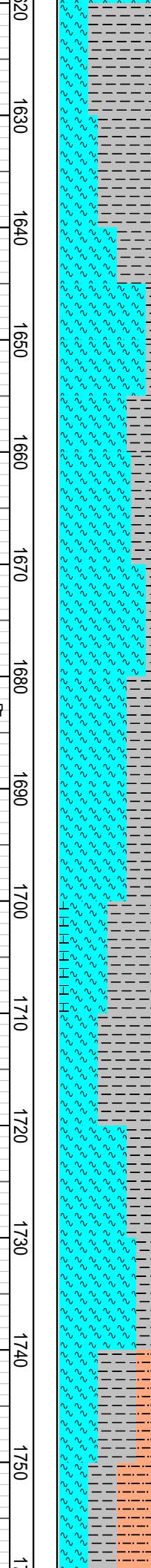
1710.0 mMDRT
Total Gas: 0.1230%
100/Tr/Tr

CALCILUTITE: wh-v It gy, tr
calc grs, tr foss frags, sf-frm,
sbblk

1756.0 mMDRT
Total Gas: 0.1989%

CALCAREOUS SILTSTONE:
wh-lt gy, It gn gy, sli aren, tr
carb spks & mic lam, tr foss
frag, sft-frm, i/p mod hd,
sbblk

WOB: 20 - 43 klf
RPM: 18 - 131
GPM: 500 - 596
SPP: 2109 - 2914 psi



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

Total Gas: 0.1909%

100/Tr/Tr

1785.0 mMDRT
Total Gas: 0.1719%

100/Tr/Tr

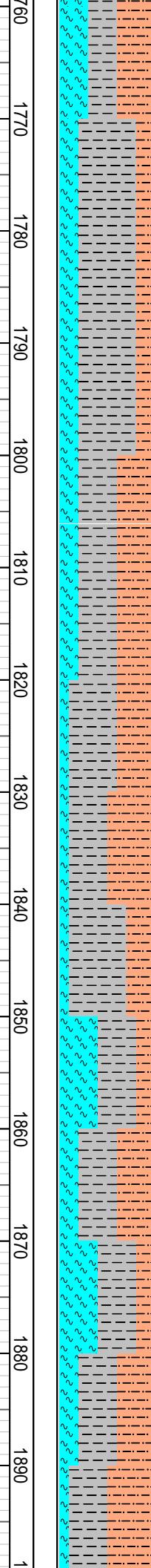
CALCAREOUS CLAYSTONE:
lt-m gy, m olv gy-dk gy, grd
to MARL i/p, tr carb spks, tr
dissem pyr, tr glauc, frm-mod
hd, sbblky

1856.0 mMDRT
Total Gas: 0.1925%

100/Tr/Tr

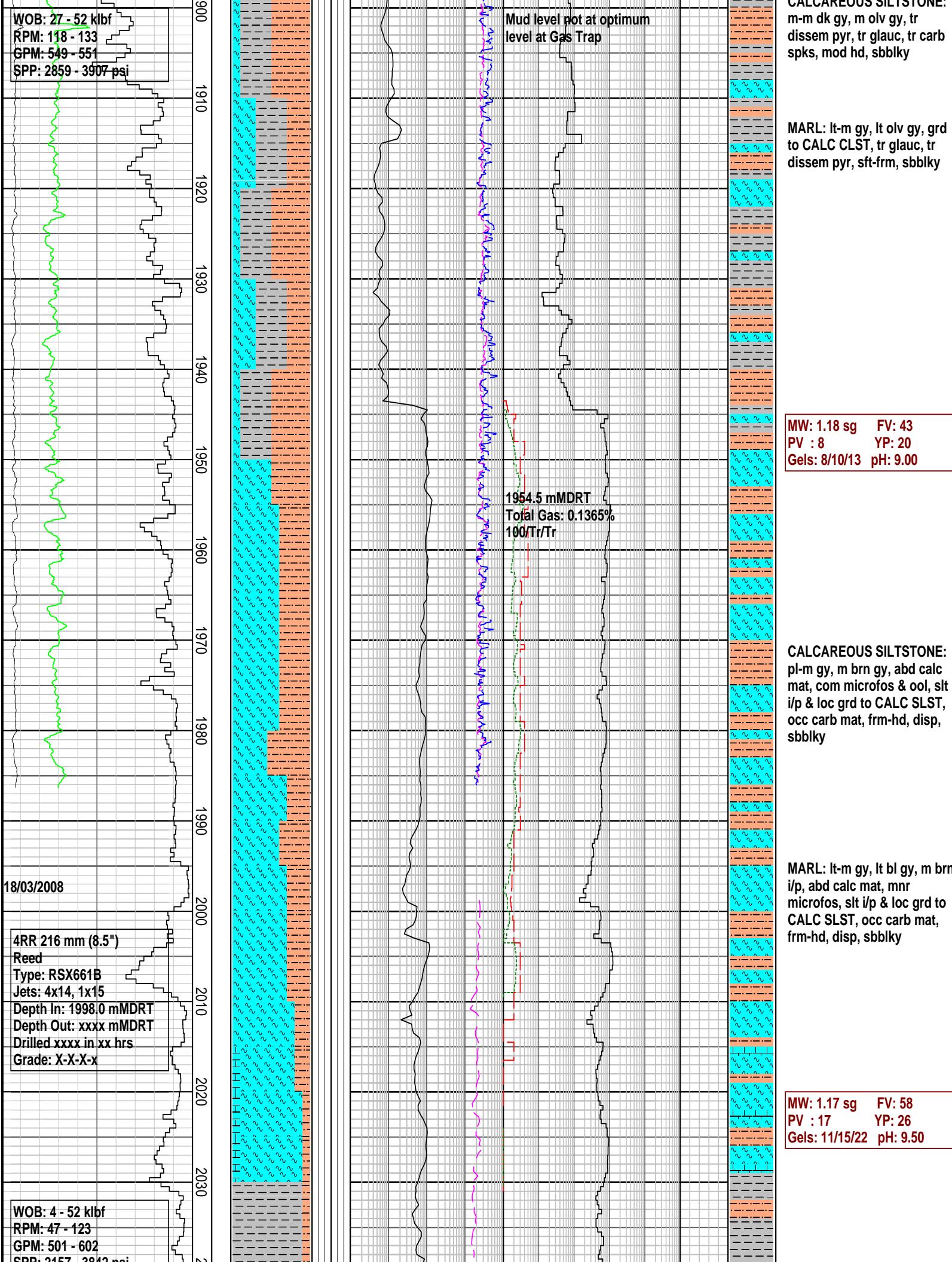
CALCAREOUS SILTSTONE:
m-dk gy, m olv gy tr dissem
pyr, tr carb spks, mod hd-hd
sbblky-blky, i/p sb fis.

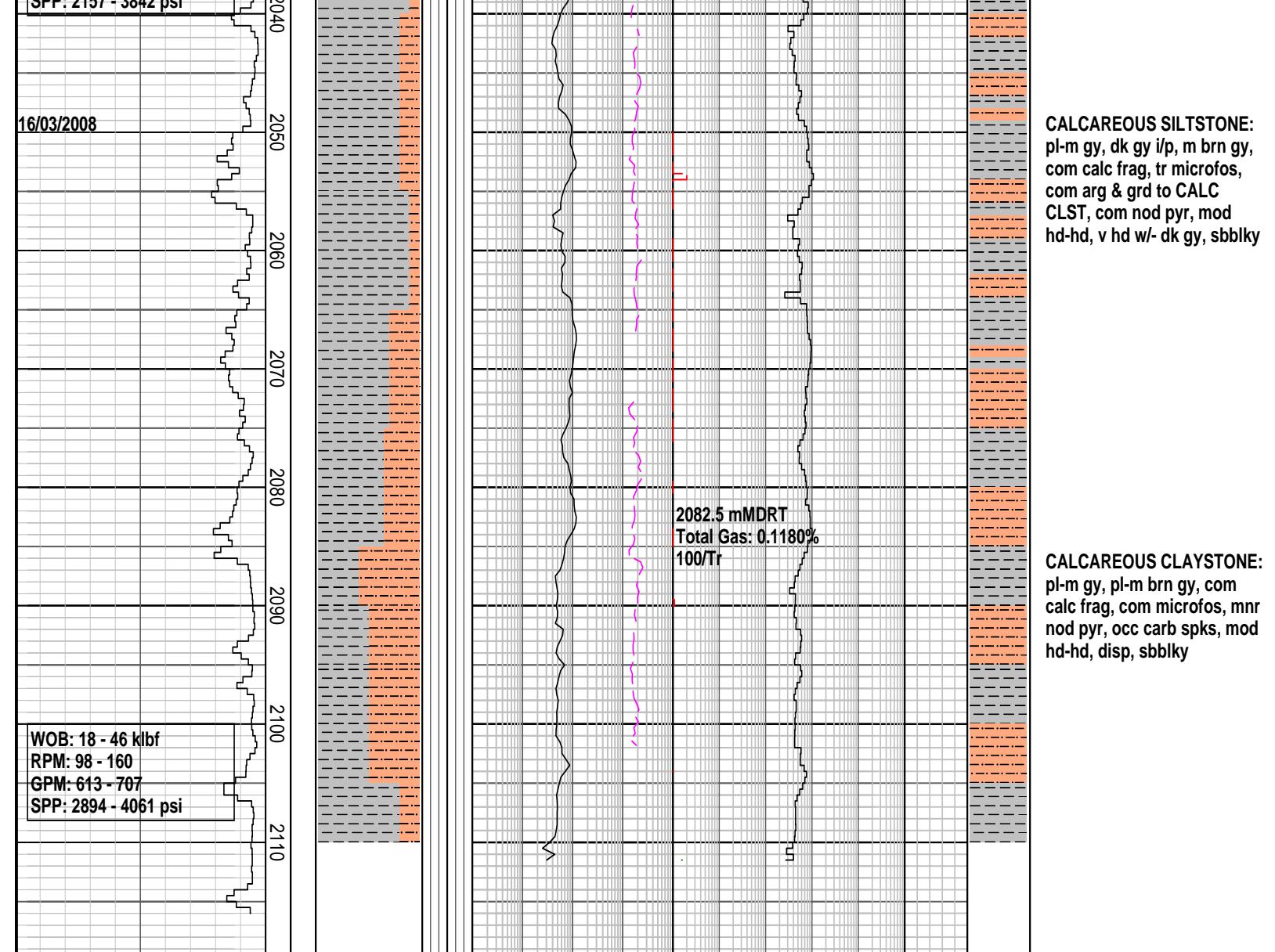
WOB: 28.55 klf
RPM: 97 - 123
GPM: 500 - 550
SPP: 2043 - 3500 psi



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

CALCAREOUS SILTSTONE:





FORMATION EVALUATION LOG

Drilling Rate	Gas Data	Chromatograph Data	Lithology Description
ROP (m/hr)	Gas Hydrocarbon Avg %	Methane ppm	Interpreted Lithology
200	0.01 0.1 1 10 0.001 Resistivity Shall Oil Show P F G	100000 100000 100000 100000 100000 100000 100000 100000 100000 100000	Calcmtry
180	10 100 1 Ohm.m	Ethane ppm Propane ppm iso-Butane ppm n-Butane ppm iso-Pentane ppm n-Pentane ppm	
160	0.001 Resistivity Deep 200 MD meters 1:500 Visual Interferred Porosity P F G	100000 100000 100000 100000 100000 100000	
140	200 Gamma Ray 200 API		
120			
100			
80			
60			
40			
20			
0			