



INTEQ

Company ESSO AUSTRALIA PTY LTD
Well East Pilchard-1
Permit Vic/L9
Region Gippsland Basin, Offshore Victoria
Designation Vertical Exploration
Coordinates 038° 11' 54.184" S Lat
 148° 33' 42.825" E Long
Datum AGD 66
Spud Date 03 July 2001
Spud Depth 116.0 mMDRT
Ref Elevation RT 25 m above Sealevel MSL
Total Depth 3138 mMDRT
Contractor Diamond Offshore General Co.
Rig MODU Ocean Bounty
Type Semi-Submersible

LOG INTERVAL
Depth 116 mDRT to 3138 mMDRT
Date 03 July 2001 – 01 August 2001
Scale 1:500
Data Engineers R. Tadiar, J. Wilson,
 J. Bardelosa, R. Tena
Logging Geologists M. Ronan, E. Spence,
 D. Pickering, R. Graafhuis

INTEQ LOG SUITE

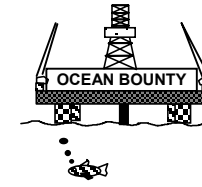
Formation Evaluation 1: 500 Drilling Data Plot 1:1000
 Pressure Data Plot 1:1000 Gas Ratio Plot 1: 500
 Pressure Summary Plot 1:7500

ABBREVIATIONS

NB	New Bit	C	Carbide Test
RR	Rerun Bit	GPM	Gallons per Minute
CB	Core Bit	SPP	Pump Pressure
WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
CBU	Circulate Returns	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
LAT	Logged After Trip	Sol	Solids %
BG	Background Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
STG	Short Trip Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivity
POG	Pumps Off Gas	TVD	True Vertical Depth

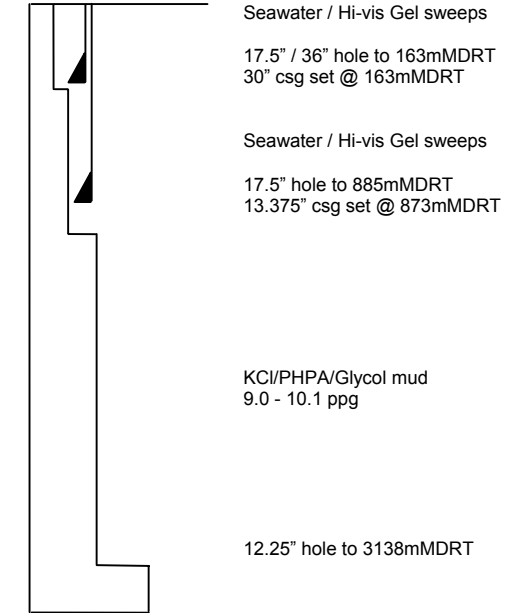
LITHOLOGY SYMBOLS

Limestone Lst	Calcisiltite Cs	Calculutite Cl	Dolomite Dol
Marl Mrl	Calcareous Claystone Calc Clyst	Claystone Clst	Siltstone Slst
Sandstone Sst	Conglomerate Cgl	Coal C	Volcanics Volc
Mica Mic	Cement Cmt	Pyrite Pyr	Glaucinite Glauc



Datum, Rotary Table (RT)
Sealevel 25 mMDRT
(MSL)

Seabed @ 116.0 mMDRT



	Casing Seat		Wireline Logs
	Liner Hanger		Formation Test
	Cored Interval		Sidewall Core
	Unrecovered		No Recovery
	Test Interval		No Recovery
	Mechanical Sidewall Core		No Recovery

FORMATION EVALUATION LOG

East Pilchard-1

SCALE: 1:500



<p>RATE OF PENETRATION</p>	<p>MEASURED DEPTH (m)</p>	<p>CUTTINGS LITHOLOGY</p>	<p>CHROMATOGRAPH & TOTAL GAS</p> <p>Methane Ethane Propane I-Butanes N-Butanes Pentanes (%)</p> <p>0.001 0.01 0.1 1 10 100</p> <p>Total Gas (%) 1%TG = 50Units</p> <p>0.001 0.01 0.1 1 10 100</p>	<p>DIRECT FLUORESCENCE</p> <p>GOOD FAIR POOR</p>	<p>CUT FLUORESCENCE</p> <p>GOOD FAIR POOR</p>	<p>REMARKS</p>
<p>NB1 Security XTIG 17.5", 4 x 20 jets With 36" H-O, 4 x 18 jets In 116m Out 163m 47m/1.7hrs 1-1-NO-A-E-1-NO-TD</p>	<p>160</p>	<p>[Lithology description area]</p>	<p>[Chromatograph data area]</p>	<p>[Direct Fluorescence data area]</p>	<p>[Cut Fluorescence data area]</p>	<p>NOTE: All depths refer to mMDRT - measured distance in metres from the rotary table.</p> <p>Water Depth = 91m RT - Seabed = 116m</p> <p>Spud East Pilchard-1 @ 12:15hrs on 03 July 2001</p> <p>Drill w/ seawater & Hivis sweeps Returns to seabed.</p> <p>Survey @ 146.11m Dev 1.69 deg Azi 178.87 deg TVD 146.11m</p>
<p>WOB 0.5 - 3.4 kpbs RPM 31 - 90 GPM 292 - 1268 SPP 80 - 1523 psi</p>	<p>150</p>	<p>[Lithology description area]</p>	<p>[Chromatograph data area]</p>	<p>[Direct Fluorescence data area]</p>	<p>[Cut Fluorescence data area]</p>	<p>[Remarks area]</p>

04/07/01

NB2 Hycalog DS34HF+GN
17.5", 8 x 14 jets
In 163m
Out 885m
722m/17.1hrs
1-1-NO-A-X-I-CT-TD

WOB 0.9 - 3.9 klbs
RPM 61 - 89
GPM 626 - 1189
SPP 827 - 1403psi

WOB 1.3 - 6.2 klbs
RPM 87 - 104
GPM 774 - 795
SPP 1270 - 1409psi

200

250

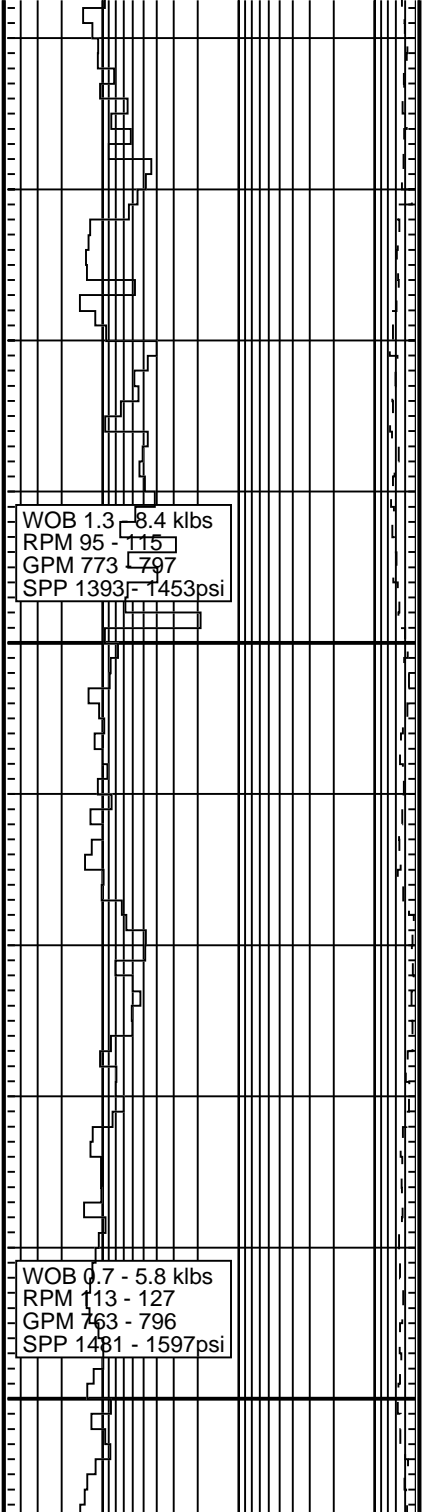
Drill 36" hole to 163m
Set 30" casing shoe @ 163m
Drill ahead 17.5" hole

Survey @ 175.01m
Dev 0.03 deg
Azi 217.72 deg
TVD 175.00m

Survey @ 202.71m
Dev 0.92 deg
Azi 280.32 deg
TVD 202.70m

Drill w/ seawater & Hivis sweeps
Returns to seabed.

Survey @ 231.81m
Dev 0.64 deg
Azi 253.06 deg
TVD 231.80m



WOB 1.3 - 8.4 klbs
RPM 95 - 115
GPM 773 - 797
SPP 1393 - 1453psi

WOB 0.7 - 5.8 klbs
RPM 113 - 127
GPM 763 - 796
SPP 1481 - 1597psi

300

350

Survey @ 258.71m
Dev 0.62 deg
Azi 201.27 deg
TVD 258.70m

Survey @ 286.01m
Dev 0.41 deg
Azi 115.81 deg
TVD 286.00m

Survey @ 313.01m
Dev 0.78 deg
Azi 115.03 deg
TVD 313.01m

Drill w/ seawater & Hivis sweeps
Returns to seabed.

WOB 112 - 6.5 kbs
RPM 117 - 125
GPM 763 - 1113
SPP 1566 - 3063psi

400

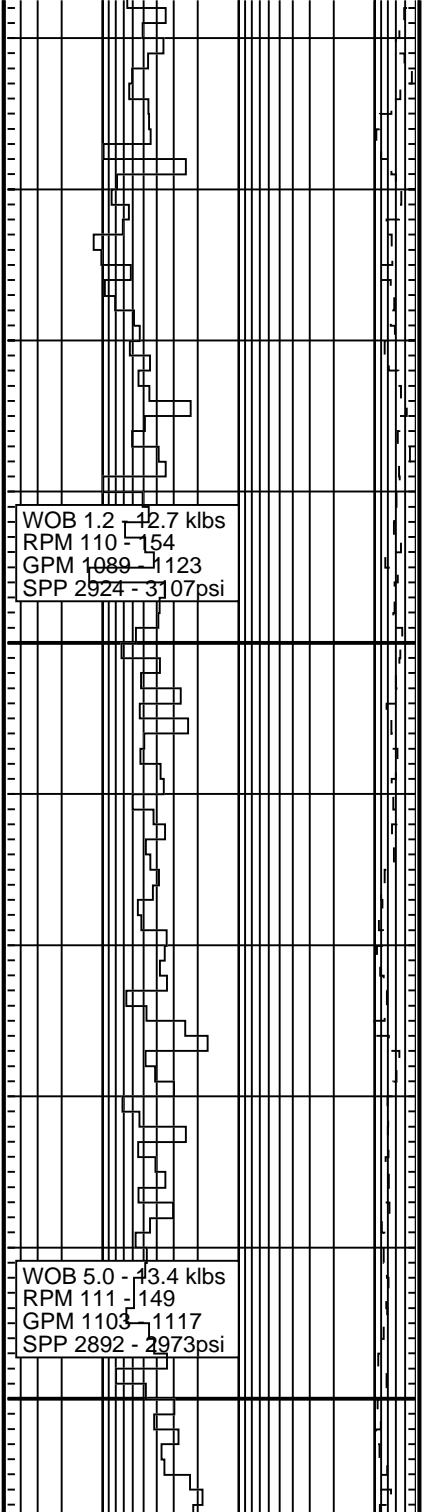
WOB 0.8 - 3.6 kbs
RPM 116 - 138
GPM 1083 - 1117
SPP 2993 - 3088psi

450

Survey @ 372.31m
Dev 0.43 deg
Azi 317.18 deg
TVD 372.99m

Drill w/ seawater & Hivis sweeps
Returns to seabed.

Survey @ 429.01m
Dev 0.20 deg
Azi 118.74 deg
TVD 428.99m



WOB 1.2 - 12.7 klbs
RPM 110 - 154
GPM 1089 - 1123
SPP 2924 - 3107psi

500

WOB 5.0 - 13.4 klbs
RPM 111 - 149
GPM 1103 - 1117
SPP 2892 - 2973psi

550

Survey @ 461.00m
Dev 0.57 deg
Azi 346.70 deg
TVD 460.98m

Survey @ 486.51m
Dev 0.35 deg
Azi 250.17 deg
TVD 486.49m

Survey @ 515.01m
Dev 0.39 deg
Azi 359.99 deg
TVD 514.99m

Drill w/ seawater & Hivis sweeps
Returns to seabed.

WOB 4.4 - 12.9 klbs
RPM 106 - 142
GPM 817 - 1121
SPP 1640 - 3063psi

600

WOB 5.6 - 17.3 klbs
RPM 107 - 140
GPM 1107 - 1420
SPP 2991 - 3045psi

650

Survey @ 573.61m
Dev 0.14 deg
Azi 199.31 deg
TVD 573.59m

Survey @ 603.21m
Dev 1.01 deg
Azi 174.66 deg
TVD 603.19m

Drill w/ seawater & Hivis sweeps
Returns to seabed.

Survey @ 647.01m
Dev 0.29 deg
Azi 029.30 deg
TVD 646.99m

WOB 5.2 - 12.9 klbs
RPM 111 - 147
GPM 1095 - 1115
SPP 2977 - 3064psi

700

05/07/01

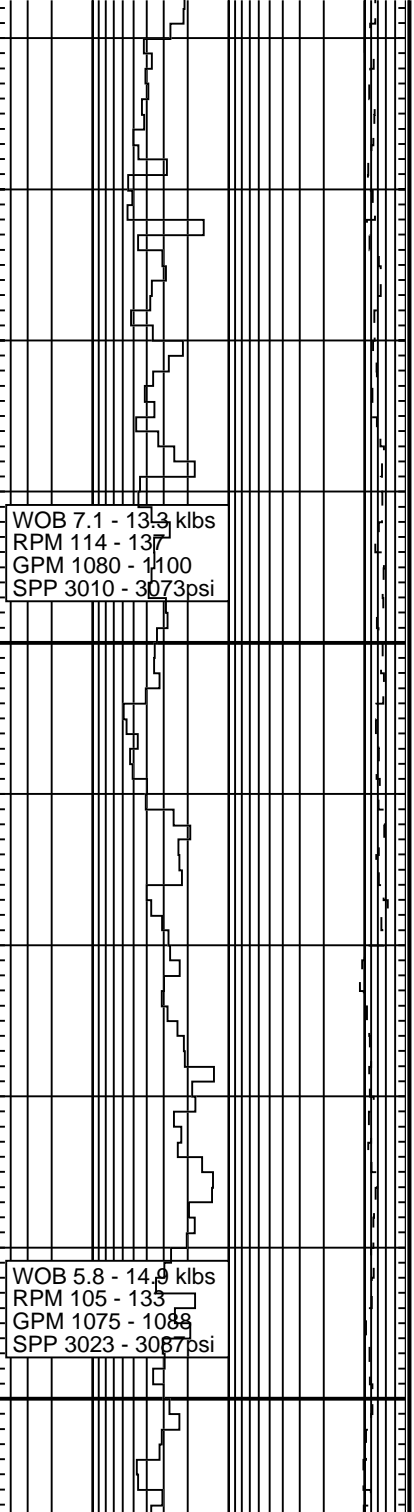
WOB 2.4 - 12.1 klbs
RPM 106 - 136
GPM 1100 - 1110
SPP 3064 - 3133psi

750

Survey @ 689.61m
Dev 0.43 deg
Azi 162.88 deg
TVD 689.59m

Survey @ 719.61m
Dev 0.45 deg
Azi 020.00 deg
TVD 719.59m

Drill w/ seawater & Hivis sweeps
Returns to seabed.



800

850

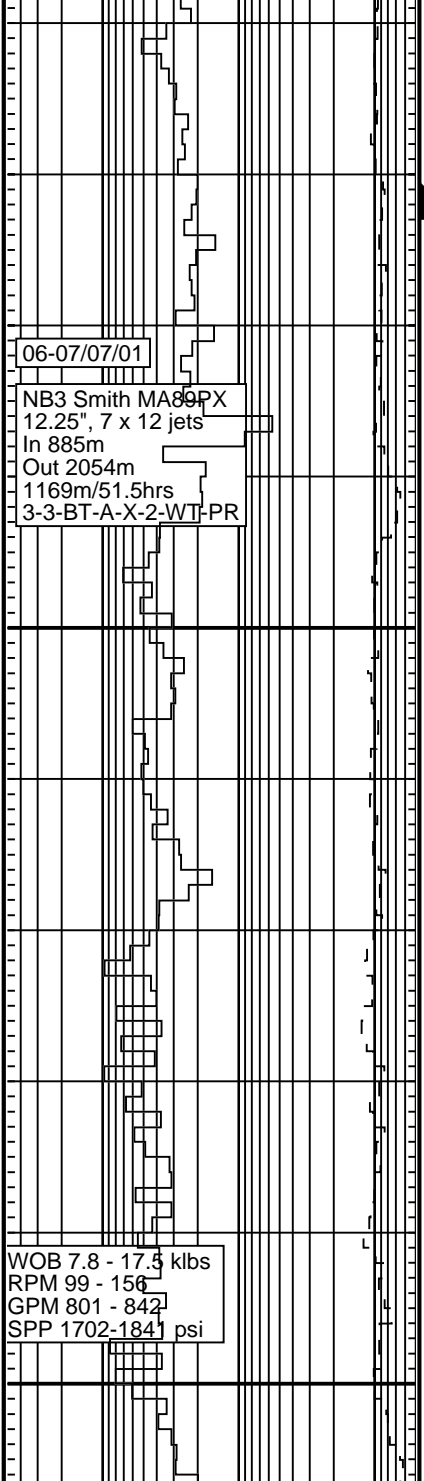
Survey @ 777.81m
Dev 0.06 deg
Azi 098.86 deg
TVD 777.79m

Survey @ 806.91m
Dev 0.50 deg
Azi 206.12 deg
TVD 806.88m

Drill w/ seawater & Hivis sweeps
Returns to seabed.

Survey @ 835.91m
Dev 0.73 deg
Azi 152.67 deg
TVD 835.88m

Survey @ 846.81m
Dev 0.27 deg
Azi 283.76 deg
TVD 846.78m



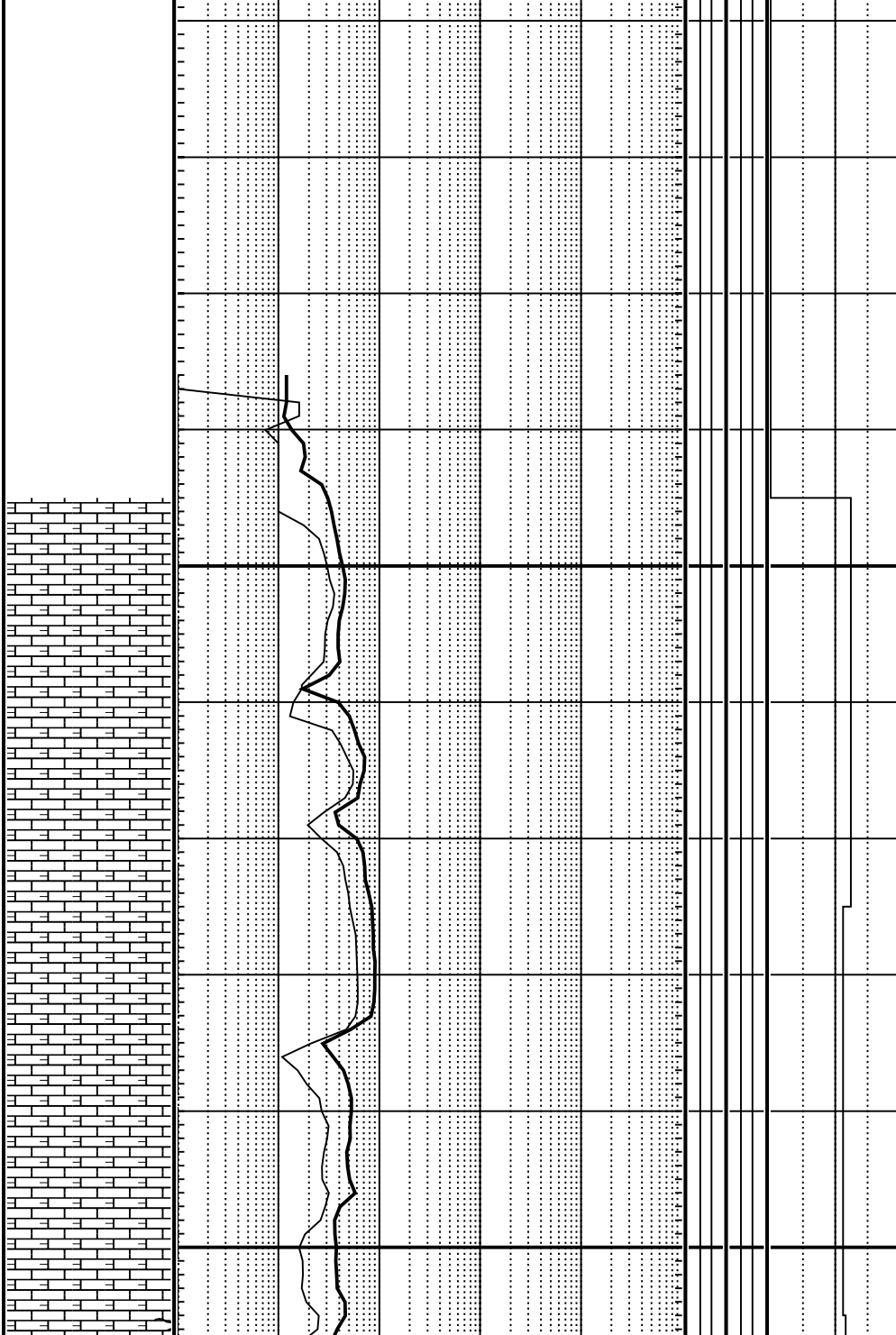
06-07/07/01

NB3 Smith MA80PX
 12.25", 7 x 12 jets
 In 885m
 Out 2054m
 1169m/51.5hrs
 3-3-BT-A-X-2-WT-PR

WOB 7.8 - 17.3 klbs
 RPM 99 - 156
 GPM 801 - 842
 SPP 1702-1841 psi

900

950



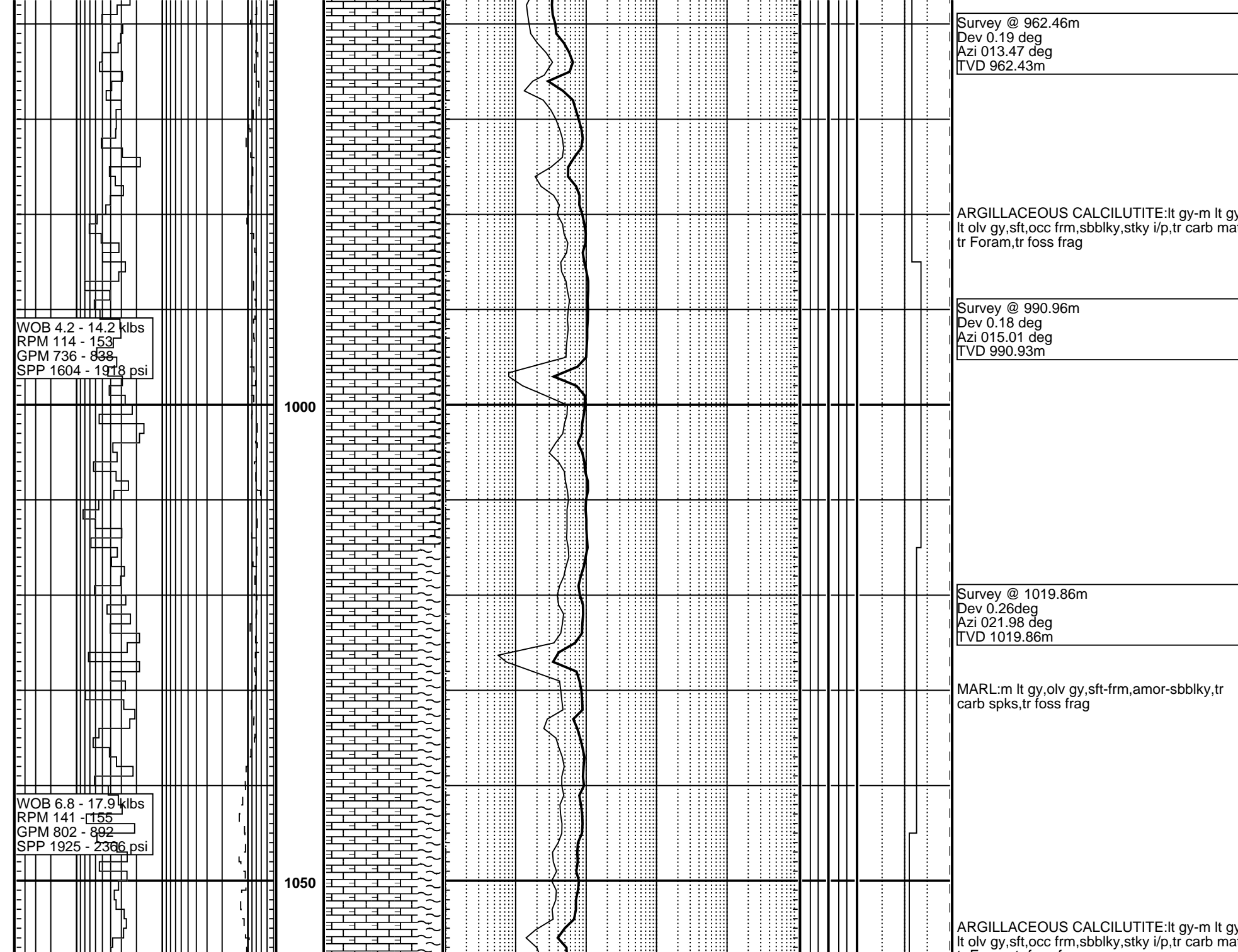
Drill 17.5" hole to 885m
 Set 13.375" csg shoe @ 873m
 Drill ahead 12.25" hole

Displace hole to KCL/PHPA/Glycol mud system
 FIT @ 888m
 MW 9.0 ppg
 EMW 17.0 ppg

ARGILLACEOUS CALCILUTITE:lt gy-m lt gy
 lt olv gy,sft,occ frm,sbbiky,stky i/p,tr carb ma
 tr Foram

ARGILLACEOUS CALCILUTITE:lt gy-m lt gy
 lt olv gy,sft,occ frm,sbbiky,stky i/p,tr carb ma
 tr Foram

MARL:m lt gy-lt olv gy,sft-frm,amor-sbbiky,tr
 carb mat



WOB 4.2 - 14.2 klbs
RPM 114 - 153
GPM 736 - 838
SPP 1604 - 1918 psi

WOB 6.8 - 17.9 klbs
RPM 141 - 155
GPM 802 - 892
SPP 1925 - 2306 psi

1000

1050

Survey @ 962.46m
Dev 0.19 deg
Azi 013.47 deg
TVD 962.43m

ARGILLACEOUS CALCILUTITE:lt gy-m lt gy
lt olv gy,sft,occ frm,sbbkly,stky i/p,tr carb ma
tr Foram,tr foss frag

Survey @ 990.96m
Dev 0.18 deg
Azi 015.01 deg
TVD 990.93m

Survey @ 1019.86m
Dev 0.26deg
Azi 021.98 deg
TVD 1019.86m

MARL:m lt gy,olv gy,sft-frm,amor-sbbkly,tr
carb spks,tr foss frag

ARGILLACEOUS CALCILUTITE:lt gy-m lt gy
lt olv gy,sft,occ frm,sbbkly,stky i/p,tr carb ma

tr Foram, tr foss frag

W 9.3ppg V 55 PV/YP 17/20
Gels 4/7 F 4.2 FC 1
Sol 3.5 Sd 0.35 pH 9.3
Cl 35k Ca 350 KCl 6%

MARL:m lt gy, olv gy, sft frm, sbbly-blky, tr carb spks

08/07/01

WOB 7.9 - 17.5 klbs
RPM 140 - 169
GPM 864 - 899
SPP 2236 - 2462 psi

1100

ARGILLACEOUS CALCILUTITE:m lt gy, lt olv gy, sft frm, sbbly-blky, tr carb spks, tr f qtz gr

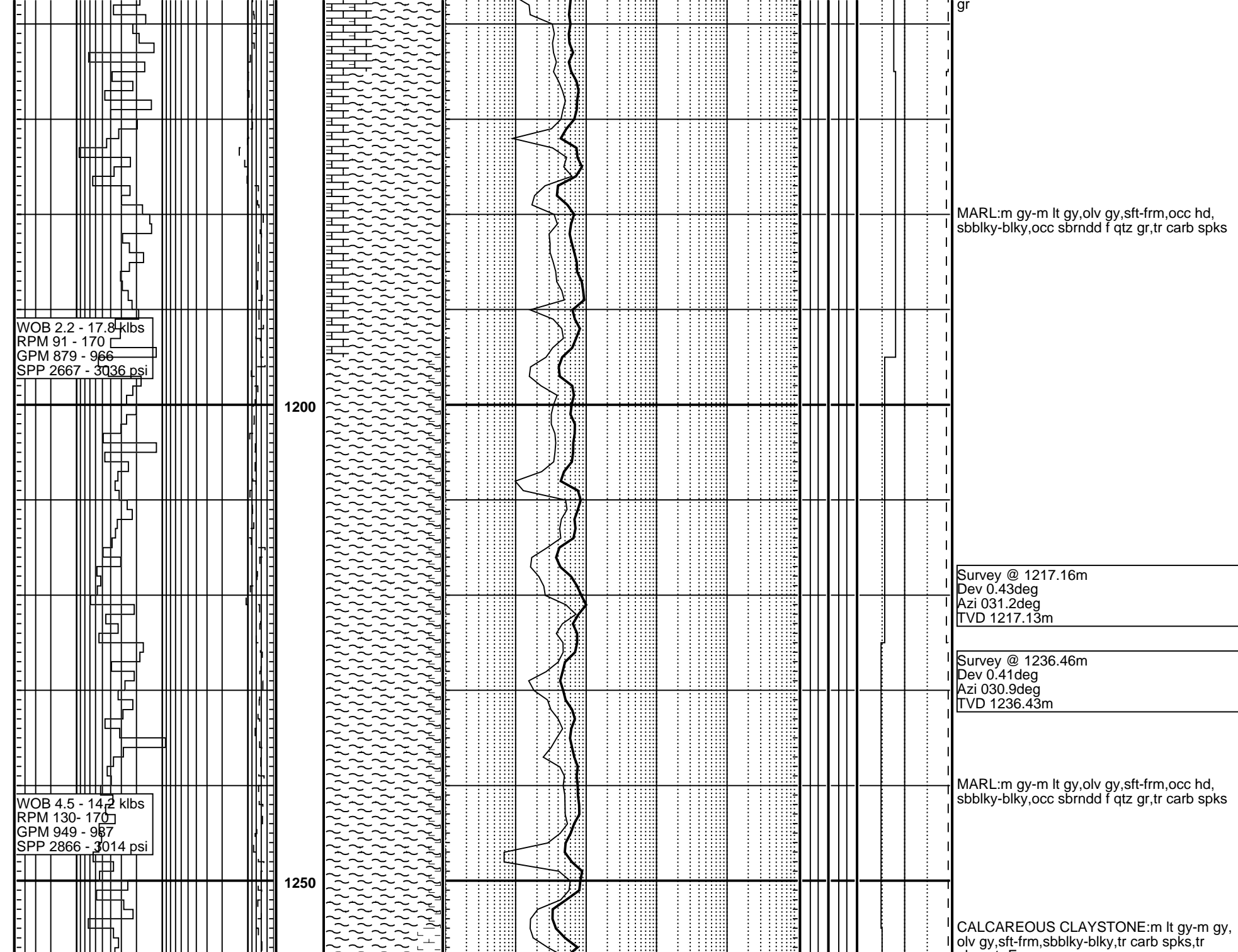
MARL:m gy, olv gy, sft frm, occ hd, sbbly-blky tr f qtz gr, occ or stn, tr carb spks

Survey @ 1136.76m
Dev 0.35deg
Azi 018.1 deg
TVD 1136.73m

WOB 4.8 - 14.2 klbs
RPM 123 - 175
GPM 859 - 877
SPP 2463 - 2647 psi

1150

ARGILLACEOUS CALCILUTITE:m lt gy, lt olv gy, sft frm, sbbly-blky, tr carb spks, tr f qtz



WOB 2.2 - 17.8 klbs
RPM 91 - 170
GPM 879 - 966
SPP 2667 - 3036 psi

1200

MARL:m gy-m lt gy,olv gy,sft frm,occ hd,
sbbiky-blky,occ sbrndd f qtz gr,tr carb spks

Survey @ 1217.16m
Dev 0.43deg
Azi 031.2deg
TVD 1217.13m

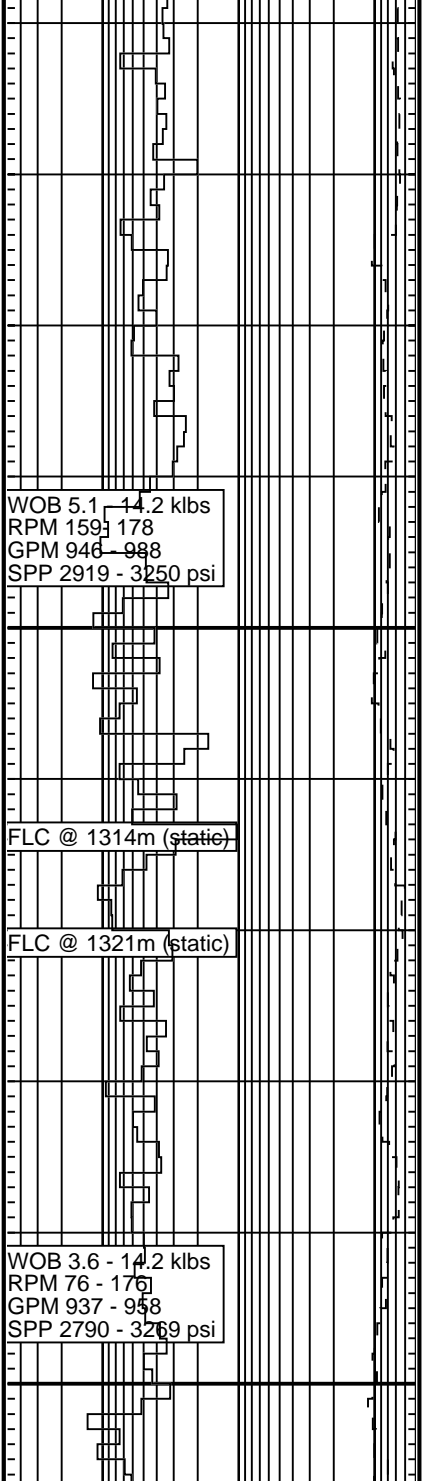
Survey @ 1236.46m
Dev 0.41deg
Azi 030.9deg
TVD 1236.43m

WOB 4.5 - 14.2 klbs
RPM 130 - 170
GPM 949 - 987
SPP 2866 - 3014 psi

1250

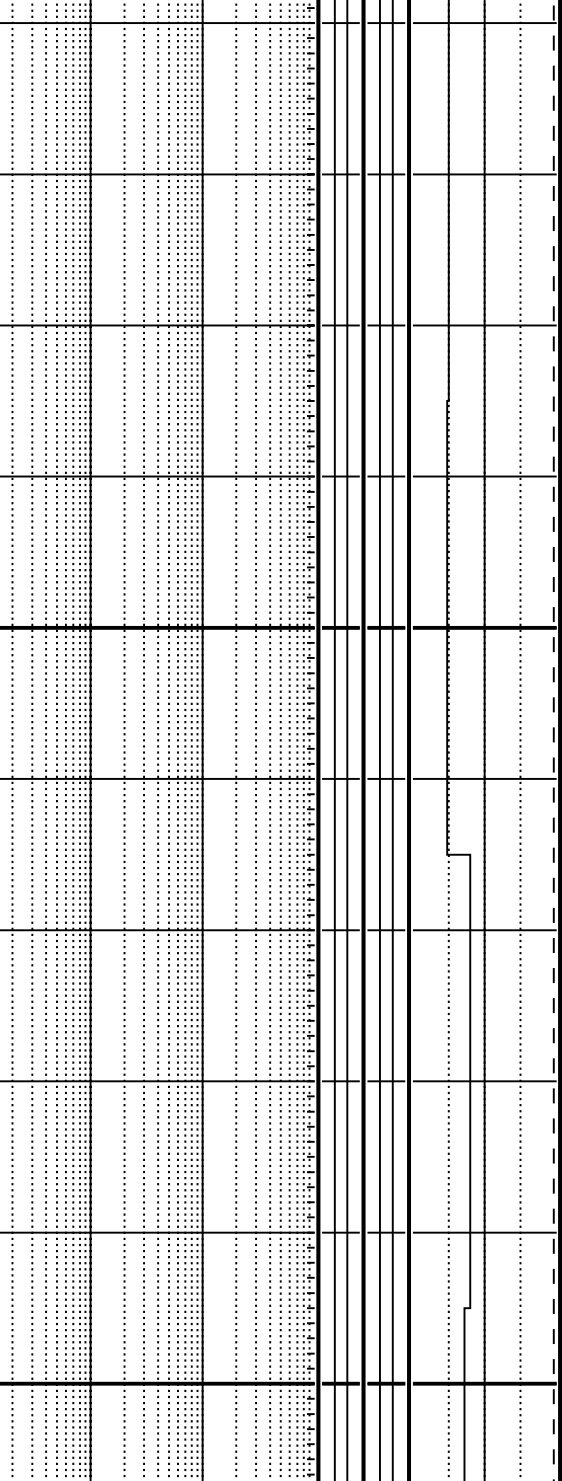
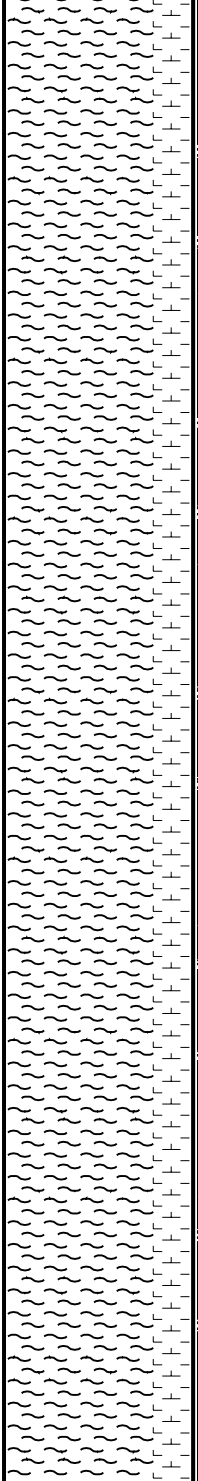
MARL:m gy-m lt gy,olv gy,sft frm,occ hd,
sbbiky-blky,occ sbrndd f qtz gr,tr carb spks

CALCAREOUS CLAYSTONE:m lt gy-m gy,
olv gy,sft frm,sbbiky-blky,tr carb spks,tr



1300

1350



Survey @ 1277.46m
Dev 0.50deg
Azi 034.4deg
TVD 1277.43m

MARL:m lt gy-m gy,olv gy,sft frm,sbblky-blky,
tr carb spks,tr foss frag

CALCAREOUS CLAYSTONE:m lt gy-m gy,
olv gy,sft frm,sbblky-blky,tr carb spks,tr
glauc,tr Foram

Survey @ 1335.36m
Dev 0.58deg
Azi 031.1deg
TVD 1335.32m

MARL:lt gy-m gy,olv gy,sft frm,sbblky-blky,tr
carb spks,tr glauc,tr Foram,tr foss frag,tr pyr
nod,grd to CALCAREOUS CLAYSTONE i/p

CALCAREOUS CLAYSTONE:m lt gy-m gy,
olv gy,sft frm,sbblky-blky,tr carb spks,tr

glauc, tr Foram

Survey @ 1376.86m
Dev 0.58deg
Azi 032.3deg
TVD 1376.82m

MARL: lt gy-m gy, olv gy, sft frm, sbblky-blky, tr carb spks, tr glauc, tr Foram, tr foss frag, tr pyr, grd to CALCAREOUS CLAYSTONE i/p

Survey @ 1394.76m
Dev 0.61deg
Azi 038.2deg
TVD 1394.72m

CALCAREOUS CLAYSTONE: m lt gy-m gy, olv gy, sft frm, sbblky-blky, tr carb spks, tr glauc, tr Foram

Survey @ 1411.66m
Dev 0.66deg
Azi 032.5deg
TVD 1411.62m

MARL: lt gy-m gy, olv gy, sft frm, sbblky-blky, tr carb spks, tr glauc, tr foss frag, tr dissem pyr, grd to CALCAREOUS CLAYSTONE i/p

Survey @ 1450.86m
Dev 0.81deg
Azi 037.6deg
TVD 1450.82m

Carbide check @ 1449m
Theo strks = 6612
Actl strks = 7100
Avg Hole Size 13.3"

CALCAREOUS CLAYSTONE: m lt gy-m gy, olv gy, gnsh gy, sft frm, sbblky, tr carb spks, tr

1400

1450

WOB 4.7 - 18.3 klbs
RPM 149 - 175
GPM 943 - 956
SPP 3158 - 3281 psi

WOB 7.0 - 17.3 klbs
RPM 147 - 174
GPM 940 - 953
SPP 3152 - 3258 psi

glauc

W 9.6ppg V 55 PV/YP 17/26
Gels 5/7 F 3.4 FC 1
Sol 4.4 Sd 0.5 pH 9.4
Cl 37k Ca 300 KCl 5.6%

MARL:lt gy-m gy,olv gy,sft frm,sbblky-blky,tr carb spks,tr glauc,tr foss frag,tr nod pyr,grd to CALCAREOUS CLAYSTONE i/p

WOB 7.5 - 16.6 klbs
RPM 160 - 177
GPM 941 - 949
SPP 3223 - 3303 psi

1500

CALCAREOUS CLAYSTONE:lt olv gy-gnsh gy,lt gy-m gy,sft frm,sbblky-blky,tr carb spks, tr glauc

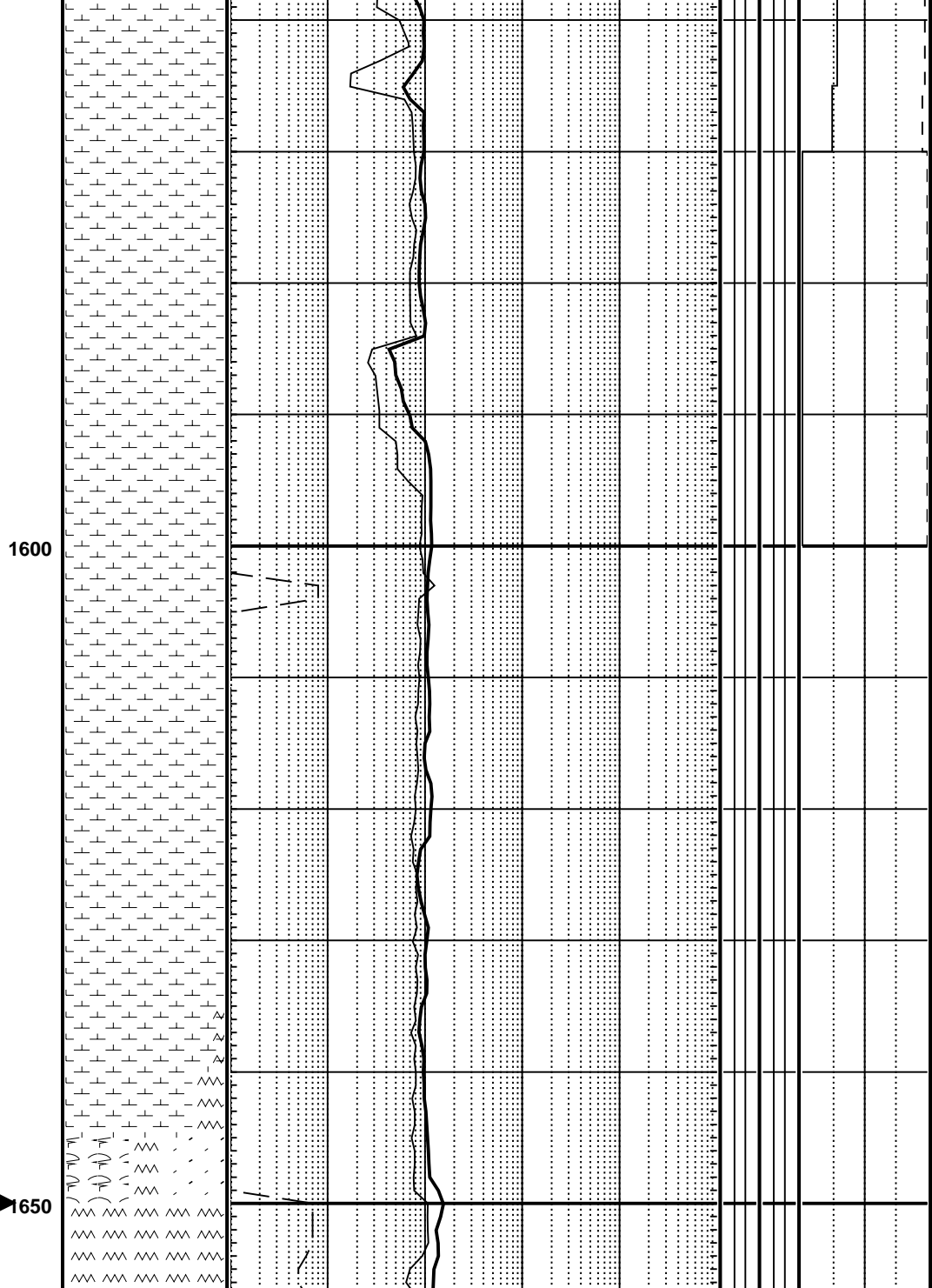
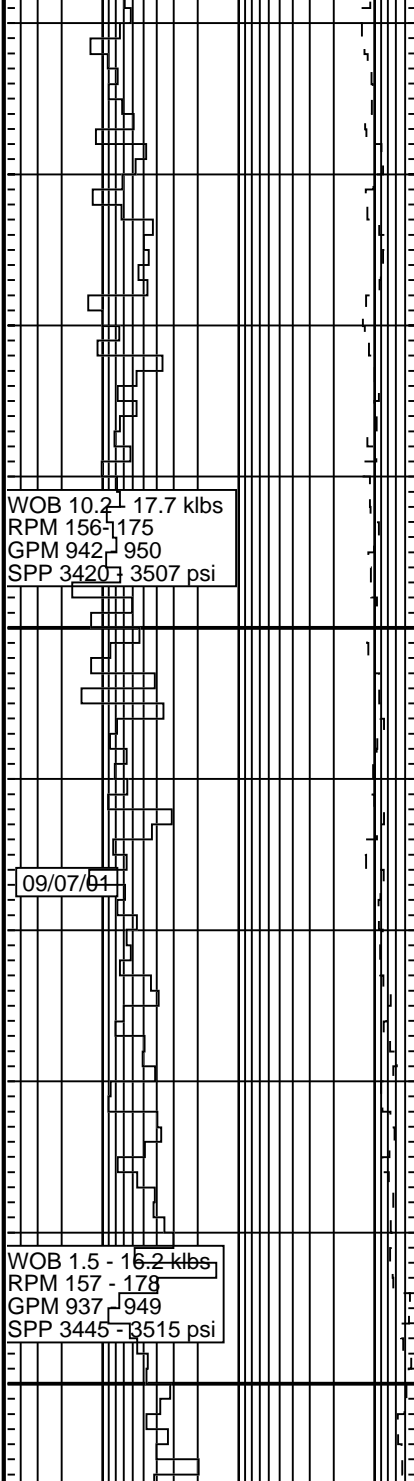
MARL:lt gy-m gy,olv gy,sft frm,sbblky-blky,tr carb spks,tr glauc,tr foss frag,tr pyr nod,grd to CALCAREOUS CLAYSTONE i/p

CALCAREOUS CLAYSTONE:lt olv gy-gnsh gy,lt gy-m gy,sft frm,sbblky-blky,wxy,tr carb spks,tr glauc

WOB 7.5 - 18.4 klbs
RPM 157 - 177
GPM 947 - 955
SPP 3306 - 3423 psi

1550

Survey @ 1543.26m
Dev 0.90deg
Azi 036.6deg
TVD 1543.21m



CALCAREOUS CLAYSTONE:lt olv gy-gnsh gy,lt gy-m gy,sft frm,sbblky-blky,wxy,tr carb spks,tr glauc

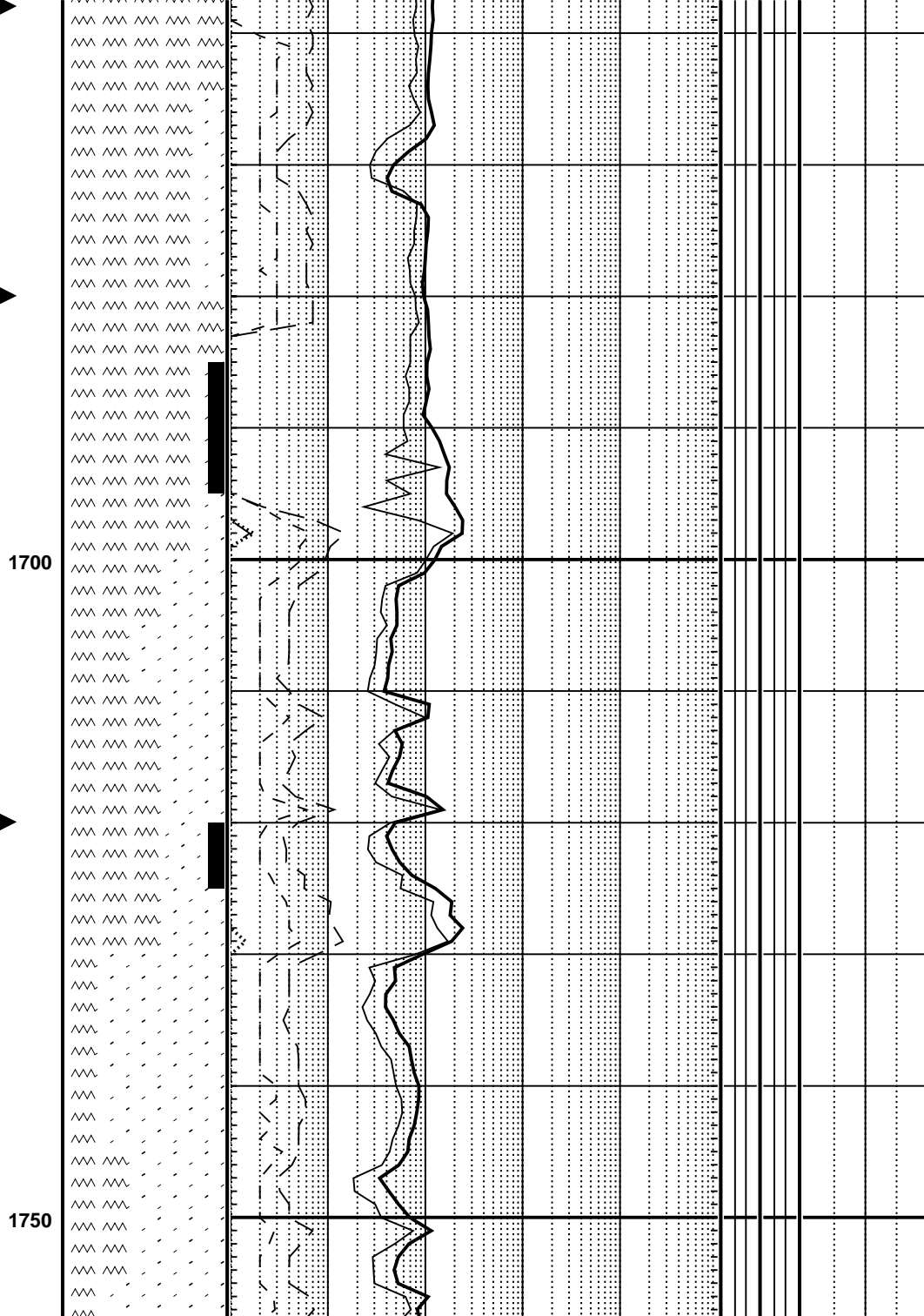
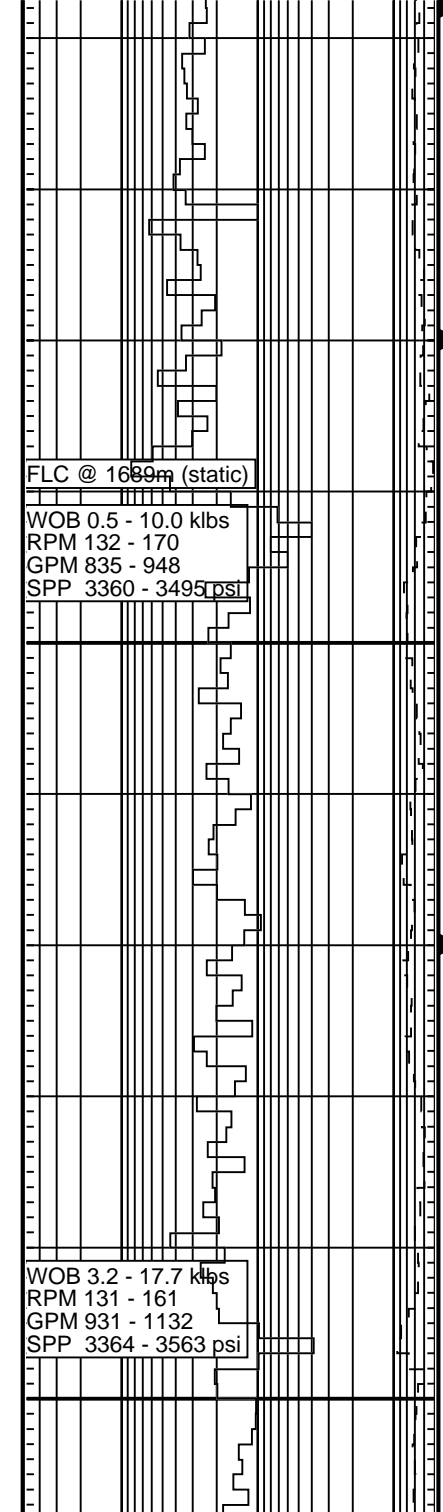
Discontinue calcimetry due to addition of Baracarb LCM (CaCO3) to mud system

CALCAREOUS CLAYSTONE:lt gy-lt olv gy,gnsh gy,brnsh gy,frm,sbblky-blky,wxy i/p,tr carb spks,tr glauc

CALCAREOUS CLAYSTONE:lt gy-lt olv gy,brnsh gy,frm,sbblky-blky,wxy i/p,r glauc,tr carb spks,tr pyr,tr Dol,tr bur,tr foss frag

CLAYSTONE:lt gy-lt olv gy,brnsh gy,frm,sbblky-blky,wxy i/p,abd glauc,tr carb spks,tr dissem pyr,tr Dol

Survey @ 1659.56m
 Dev 1.34deg
 Azi 025.8deg
 TVD 1659.48m



SANDSTONE:clr-trnsl qtz gr,lse,f-m,sbrndd-rnd,sbsphe,mod srt,dk yelsh brn slt mtrx,tr pyr cmt,min glauc,fr inf por,n shw

SILTSTONE:pl yelsh brn,lt brn,yelsh brn,amor-sbbiky,disp,tr nod pyr,tr glauc

SILTSTONE:pl yelsh brn,lt olv gy,dk gnsh gy,lse-disp,amor,tr nod pyr,tr glauc

COAL:bit,gy blk,dsky brn,sbconch,vit lstr,tr dissem pyr

SANDSTONE:clr-trnsl qtz gr,f-m,occ crs,sbrndd-mdd,sbsphe,p-mod srt,abd wh arg mtrx,rpyr cmt,tr pyr nod,tr glauc,fr inf por,n shw

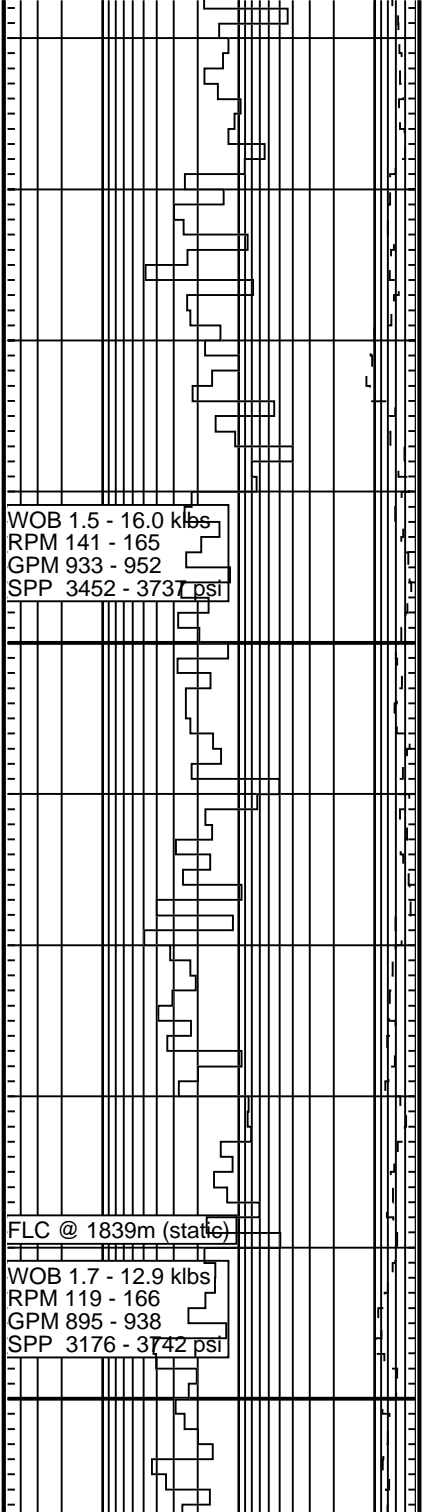
COAL:bit,gysh blk-blk,brnsh blk,frm-mod hd,sbconch,blky,grd to CARBONACEOUS SILTSTONE i/p

SANDSTONE:trns qtz gr,vf-f,mod-w srt,r pyr cmt,r arg mtrx,tr pyr nod,tr glauc,fr inf por,n shw,grd to SILTSTONE i/p

Survey @ 1746.16m
Dev 1.46deg
Azi 024.8deg
TVD 1746.06m

SANDSTONE:lt brn-pl yelsh brn,m brn,f-m,mod srt,lam,w cmt i/p,r pyr cmt,abd arg mtrx,tr pyr nod,tr glauc,p inf por,n shw,grd to SILTSTONE i/p

W 9.8ppg V 58 PV/YP 22/28
Gels 7/11 F 32 EC 1



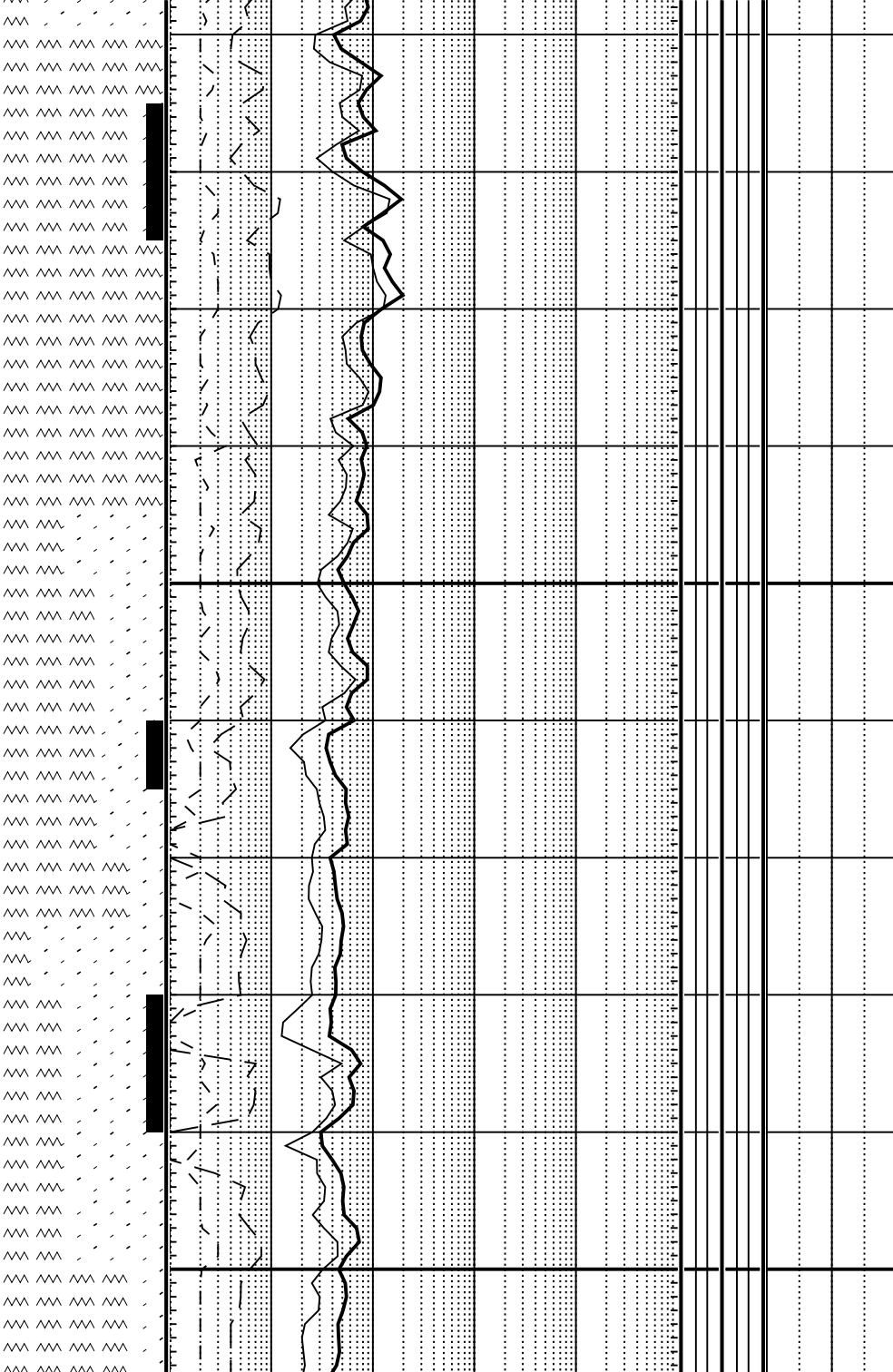
WOB 1.5 - 16.0 klbs
RPM 141 - 165
GPM 933 - 952
SPP 3452 - 3737 psi

FLC @ 1839m (static)

WOB 1.7 - 12.9 klbs
RPM 119 - 166
GPM 895 - 938
SPP 3176 - 3742 psi

1800

1850



Gels 7/11 F 3.2 FC 1
Sol 7.5 Sd 1.5 pH 8.5
CI 37k Ca 480 KCl 5.0%

SILTSTONE:mod brn,gysh brn,hd,pty-lam,tr
glauc,tr pyr nod

COAL:bit,gysh blk-blk,brnsh blk,frm-mod hd,
sbconch,blky,grd to CARBONACEOUS
SILTSTONE i/p

SILTSTONE:brnsh gy,m dk gy,frm-hd,sbbkly
bkly,tr carb lam,tr glauc,tr dissem & nod pyr

Survey @ 1800.66m
Dev 1.55deg
Azi 026.9deg
TVD 1800.54m

SANDSTONE:clr-trnsl qtz gr,occ yelsh brn
stn,pred lse,f-m,sbang-sbrnodd,sbelong-
sbspher,p-mod srt,wk sil cmt,tr pyr cmt,r arg
mtrx,tr pyr,fr inf por,n shw

COAL:bit,gysh blk-blk,brnsh blk,frm-mod hd,
sbconch,sbbkly-blky,grd to
CARBONACEOUS SILTSTONE i/p

Carbide check @ 1816m
Theo strks = 8600
Actl strks = 8523
Avg Hole Size 13.0"

SANDSTONE: clr-trnsl qtz gr,occ yelsh brn
stn,f-m,sbang-sbrnodd,sbelong-sbspher,p-
mod srt,tr pyr cmt,tr arg mtrx,tr pyr,fr inf por,
n shw

COAL:bit,gysh blk-blk,brnsh blk,frm-mod hd,
sbconch,sbbkly-blky,grd to
CARBONACEOUS SILTSTONE i/p

W 9.9ppg V 60 PV/YP 25/30
Gels 8/11 F 3.0 FC 1
Sol 6.9 Sd 1.5 pH 9.2
CI 38.5k Ca 400 KCl 5.0%

SILTSTONE:brnsh gy-olv gy,m gy-m dk gy,
frm-hd,sbbkly-blky,tr carb lam & spks,tr
dissem & nod pyr

WOB 4.6 - 17.8 klbs
RPM 118 - 171
GPM 598 - 915
SPP 3225 - 3369 psi

FLC @ 1895m (static)

10/07/01

WOB 0.9 - 15.4 klbs
RPM 137 - 169
GPM 890 - 930
SPP 3254 - 3554 psi

1900

1950

COAL:bit,gysh blk-blk,brnsh blk,frm-mod hd,
sbconch,sbblky-blky,grd to
CARBONACEOUS SILTSTONE i/p

Survey @ 1862.26m
Dev 1.63deg
Azi 027.5deg
TVD 1862.12m

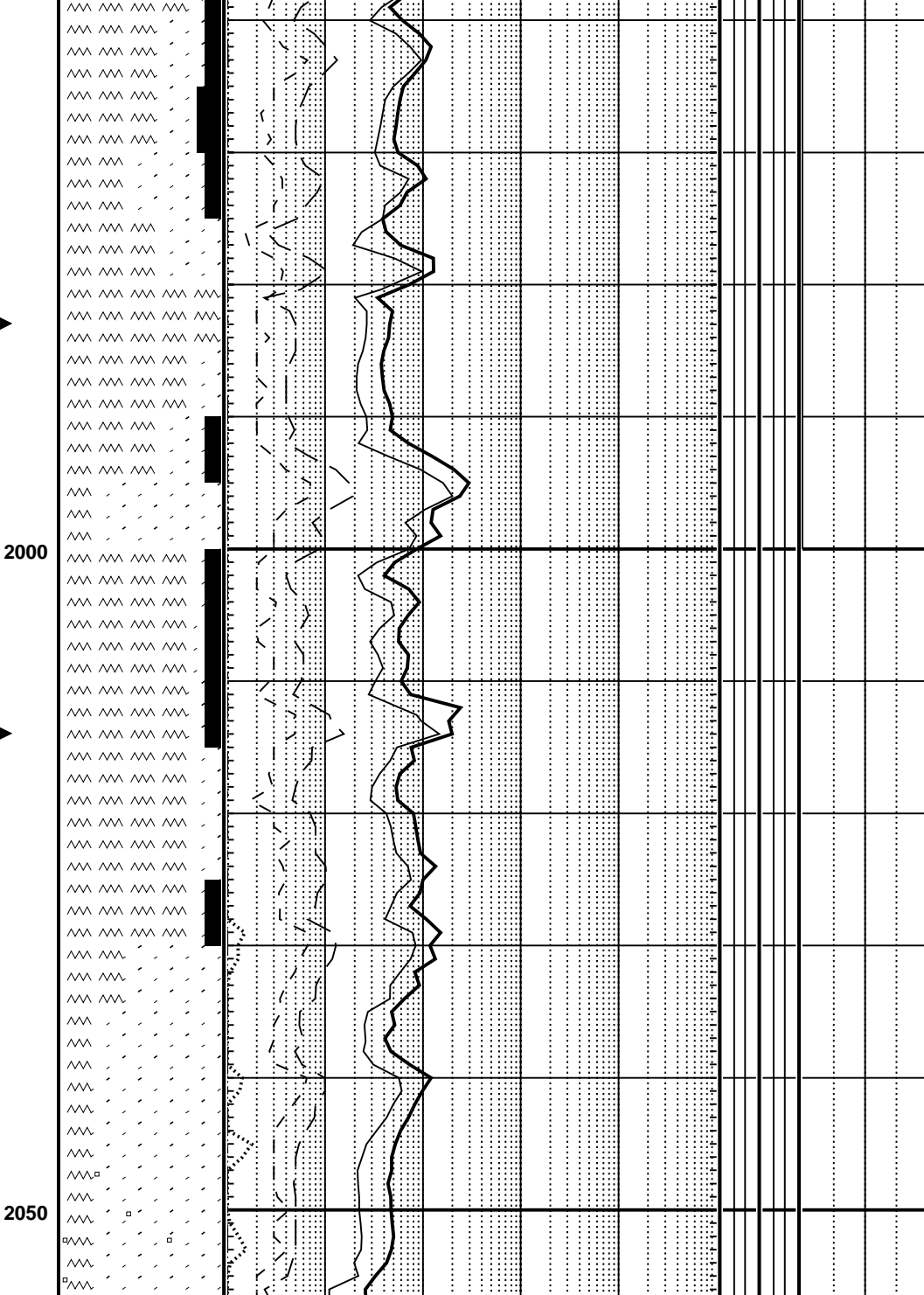
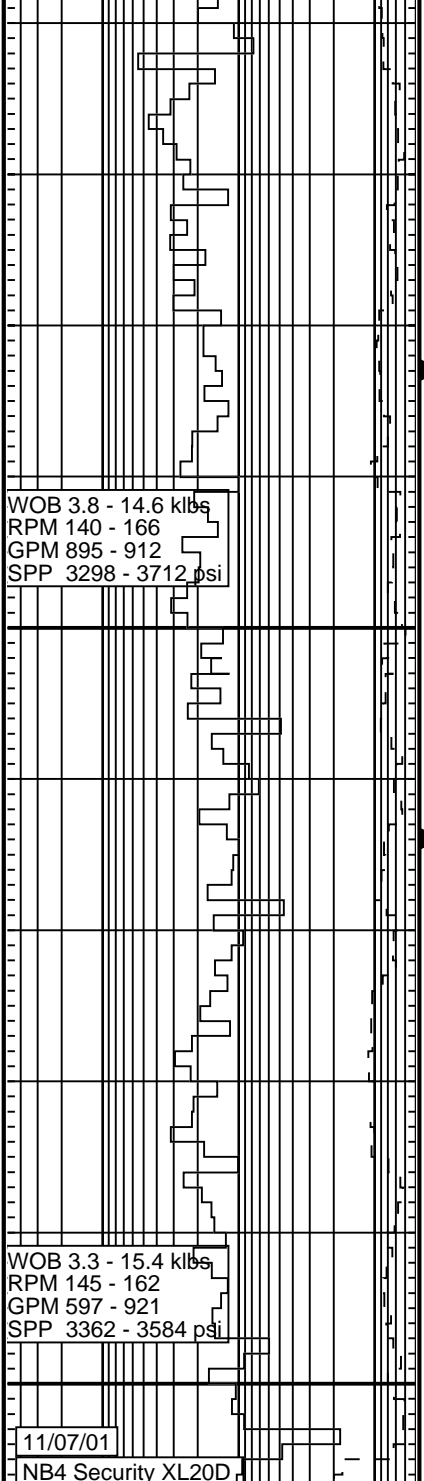
SILTSTONE:dk gnsh gy-dk gy,gnsh gy,frm-
hd,sbblky-blky,r carb lam & spks,tr dissem
pyr

SANDSTONE:clr-trnsl,occ fros qtz gr,pred
lse,m-v crs,occ pbl,sbrnrd-mdd,sbelong-
sbspher,p-mod srt,tr pyr cmt,tr dissem pyr,tr
c frags,fr inf por,n shw

CARBONACEOUS SILTSTONE:dsky brn-dk
yelsh brn,olv blk,frm-mod hd,sbblky-blky,lam
grd to COAL i/p

SANDSTONE:clr-trnsl,occ gy qtz gr,pred lse
m-v crs,sbrnrd,sbspher,p-mod srt,r pyr cmt,
wk sil cmt,tr pyr nod,gd inf por,n shw

COAL:sbbit,gysh blk-blk,brnsh blk,frm-mod
hd,sbconch,sbblky-blky,grd to
CARBONACEOUS SILTSTONE i/p



SILTSTONE:dk yelsh brn-dsky yelsh brn,m h
gy,frm-mod hd,sbblky-blky,r dissem pyr,tr
carb lam

Survey @ 1978m
Dev 1.88deg
Azi 031.8deg
TVD 1978.56m

COAL:sbbit,gysh blk-blk,brnsh blk,frm-mod
hd,sbconch,sbblky-blky,grd to
CARBONACEOUS SILTSTONE i/p

SANDSTONE:clr-trnsl,occ fros qtz gr,pred
lse,f-m,sbang-sbrndd,sbspher,p-mod srt,tr
pyr cmt,tr nod pyr,fr inf por,n shw

COAL:sbbit,gysh blk-blk,dsky brn,frm-mod
hd,sbconch,sbblky,grd to CARBONACEOUS
SILTSTONE i/p

Survey @ 2006.66m
Dev 1.86eg
Azi 030.7deg
TVD 2006.45m

SILTSTONE:brnsh gy,olv gy-lt gy,frm-mod
hd,sbblky-blky,tr dissem pyr,tr carb lam,grd
to CARBONACEOUS SILTSTONE i/p

W 9.9ppg V 60 PV/YP 23/40
Gels 9/11 F 3.0 FC 1
Sol 8.1 Sd 2.0 pH 8.5
Cl 34k Ca 320 KCl 4.3%

SANDSTONE:clr-trnsl qtz gr,pred lse,m-v
crs,occ pbl,sbang-sbrndd,sbspher-sbelong,p
srt,r sil cmt,r pyr cmt,tr pyr nod,gd inf por,n
shw

W 10.0ppg V 65 PV/YP 24/40
Gels 8/11 F 3.0 FC 1

12.25", 3 x 18 jets
In 2054m
Out 2107m
53m/7.0hrs
1-1-NO-A-E-I-NO-PR

WOB 3.6 - 27.8 klbs
RPM 103 - 165
GPM 591 - 842
SPP 3375 - 3528psi

FLC @ 2114m (static)

12/07/01

NB5 Smith MGR84VPX
12.25", 8 x 12 jets
In 2107m
Out 2114m
7m/9.5hrs
1-1-WT-A-X-I-BU-PR

13/07/01

NB6 Security XL20D
12.25", 3 x 18 jets
In 2114m
Out 2471m
357m/71.2hrs
2-3-WT-A-1-I-BT-HR

FLC @ 2142m (static)

WOB 8.8 - 41.6 klbs
RPM 34 - 116
GPM 588 - 918
SPP 2913- 3832psi

2100

2150

Sol 8.3 Sd 1.5 pH 8.5
Cl 31k Ca 340 KCl 4.2%

SANDSTONE:clr-trns,md lt g qtz gr,lse,m-v
crs,occ pbl,sbang-sbrnnd,sbspher-spher,p
srt,wh arg mtx,r pyr cmt,tr sil cmt,tr carb mat,
tr Foram,gd inf por,n shw

Survey @ 2094.09m
Dev 1.87deg
Azi 033.51deg
TVD 2093.83m

SILTSTONE:brnsh gy-olv gy,sft frm,amor-
sbbkly,tr disse pyr,tr glauc

SILTSTONE:lt gy-grnsh gy,md lt gy,sft frm,
occ hd & pyritic,sbbkly-blky,abd glauc,tr
dissem pyr

W 9.9ppg V 61 PV/YP 22/35
Gels 8/12 F 3.8 FC 1
Sol 8.8 Sd 1.0 pH 8.8
Cl 40k Ca 260 KCl 5.5%

SANDSTONE:lt olv gy-lt gy,clr-trnsl qtz grs,
lse,mod hd,vf-m,ang-sbrnnd,sbspher,wl srt,tr
r disse pyr,tr f pyr aggs,tr pyr cmt i/p,tr blk
carb mat,tr glauc,tr met gn micmic flks,tr Dol,
tr Foram,fr inf por,n shw

SILTSTONE:md lt gy-dk ylsh brn,frm-hd,
sbbkly-blky,tr carb mat,tr disse pyr

Survey @ 2147.16m
Dev 1.72deg
Azi 030.8deg
TVD 2146.87m

SILTSTONE:md lt gy-dk brnsh gy,brnsh gy,
frm-hd,sbbkly-blky,r c frags,tr disse pyr,grd

FLC @ 2176m (static)

WOB 26.7 - 44.3 klbs
RPM 78 - 111
GPM 833 - 905
SPP 3466 - 3872psi

FLC @ 2229m (static)

14/07/01

WOB 31.1 - 44.4 klbs
RPM 71 - 102
GPM 817 - 873
SPP 3546 - 3853psi

2200

2250

SANDSTONE:lt olv gy-lt gy,clr-trnsl qtz gr,
lse,f-m,sbang-sbrnrd,sbspher,mod srt,tr
dissem pyr,fr inf por,n shw

Survey @ 2177.76m
Dev 1.78deg
Azi 027.5deg
TVD 2177.46m

SILTSTONE:lt gy-m dk gy,dk yelsh brn,sft,
sbbkly-amor,tr carb lam,tr carb spks,tr nod
pyr

COAL:sbbit,gysh blk-blk,brnsh blk,frm-mod
hd,sbconch,blky,grd to CARBONACEOUS
SILTSTONE i/p

SANDSTONE:clr-trnsl qtz gr,lse,f-m,occ crs,
sbang-sbrnrd,sbelong-sbspher,p-mod srt,tr
pyr cmt,tr nod pyr,tr micmic flks,fr inf por,n
shw

Survey @ 2205.76m
Dev 1.89deg
Azi 024.2deg
TVD 2205.45m

W 10.1ppg V 62 PV/YP 24/45
Gels 10/15 F 2.7 FC 2
Sol 8.6 Sd 0.5 pH 8.5
Cl 44.5k Ca 220 KCl 6%

SILTSTONE:lt gy,lt brnsh gy,lt olv gy,sft-frm,
stky i/p,sbbkly-amor,tr carb lam,tr carb spks

SANDSTONE:clr-trnsl,occ fros,occ mlky qtz
gr,f-m,occ crs,sbang-sbrnrd,sbspher,lse-wl
cmt,mod srt,com pyr cmt,tr nod pyr,tr mic
mic flks

Survey @ 2234.96m
Dev 1.84deg
Azi 025.1deg
TVD 2234.63m

COAL:sbbit,gysh blk-blk,brnsh blk,fis-
sbconch,grd to CARBONACEOUS
SILTSTONE i/p

FLC @ 2258m (state)

Phase 3 PIT @ 2471m
MW 10.1ppg
EMW 11.8ppg

SILTSTONE:lt brnsh gy,olv gy,pl yelsh brn,
dk yelsh bn,sft frm,sbblky-blky,tr carb lam,
grd to CARBONACEOUS SILTSTONE i/p

Survey @ 2265.56m
Dev 2.00deg
Azi 022.9deg
TVD 2265.11m

SILTSTONE:lt brnsh gy,olv gy,pl yelsh brn,
sft frm,sbblky-blky,tr carb lam,grd to
CARBONACEOUS SILTSTONE i/p

SANDSTONE:clr-trns,occ fros,occ pl bl gn
qtz gr,f-m,sbang-sbrndd,sbspher,lse-wl cmt
p srt,min pyr cmt,tr sil cmt,tr nod pyr,tr mic
flks,p inf por,n fluor

2300

SILTSTONE:olv gy,lt brnsh gy,pl yelsh brn,
sft frm,sbblky-blky,tr carb spks,tr carb lam

SANDSTONE:clr-trns,occ lt rd qtz gr,lse,f-m,
occ crs-v crs,sbang-sbrndd,sbspher,pred chl
tr sil cmt,tr nod pyr,tr mic flks,fr inf por,n fluor

COAL:bit,gysh blk-blk,brnsh blk,sbconch-
conch,brit i/p,vit-sbvit

Survey @ 2322.66m
Dev 1.98deg
Azi 020.1deg
TVD 322.28m

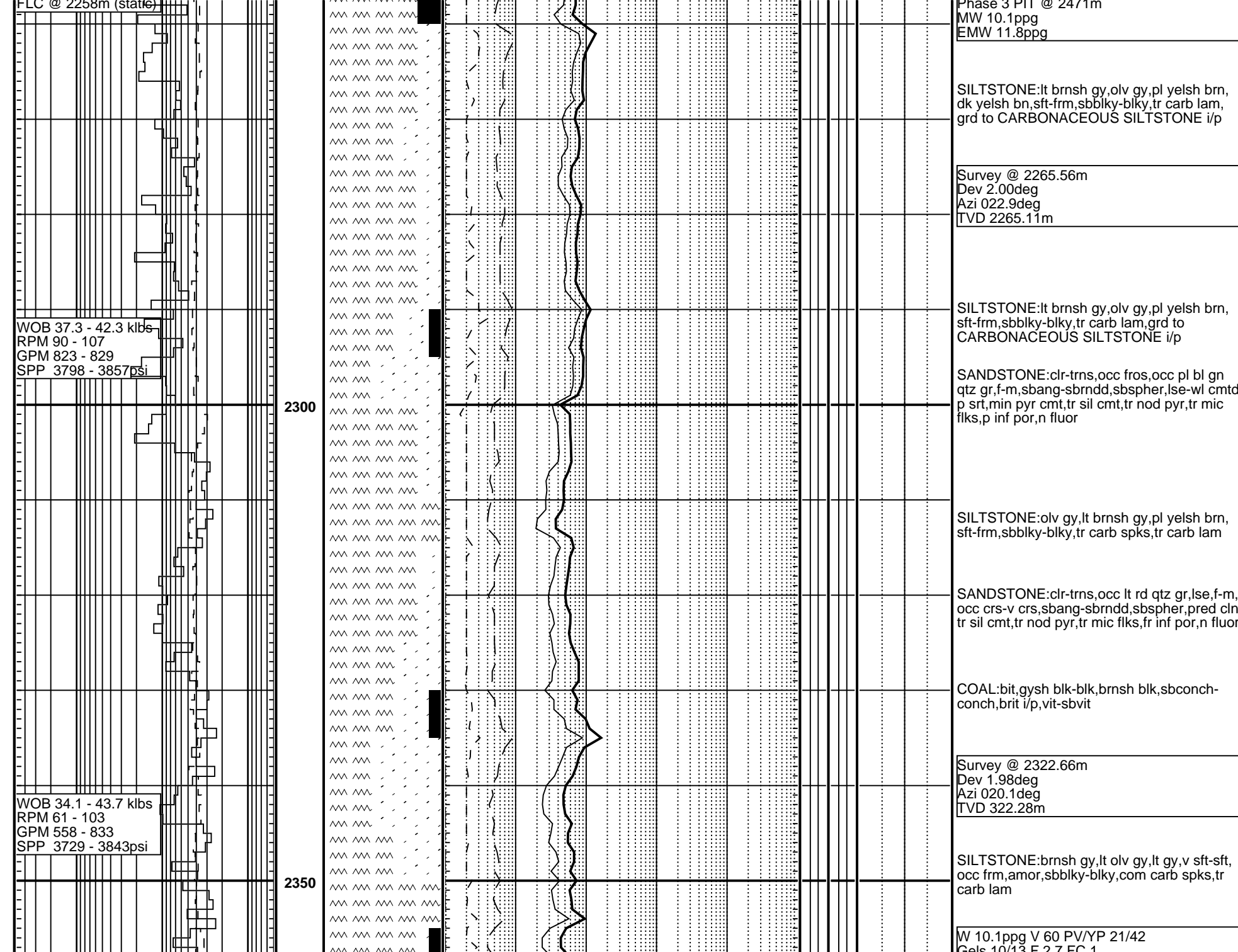
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occ frm,amor,sbblky-blky,com carb spks,tr
carb lam

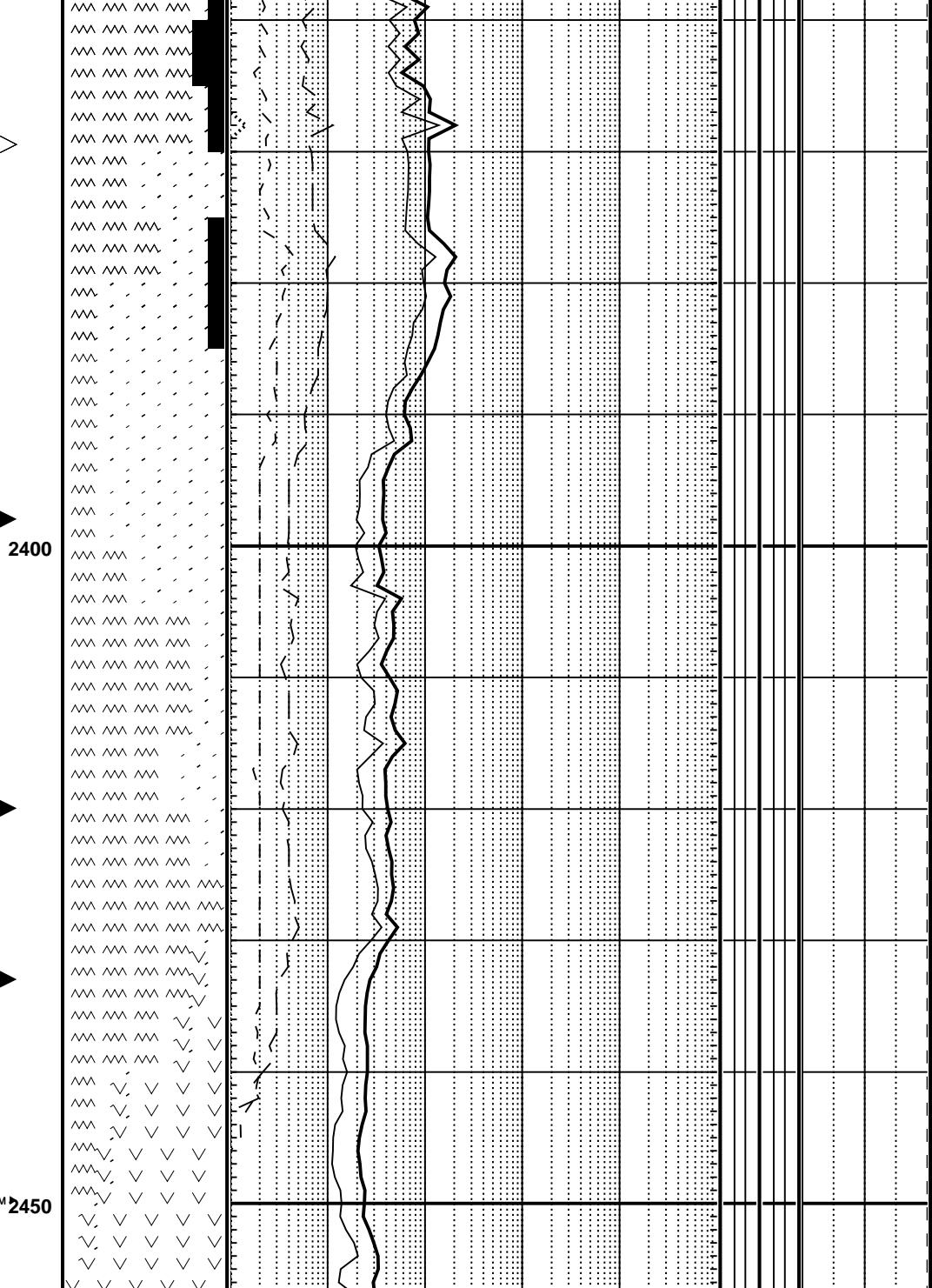
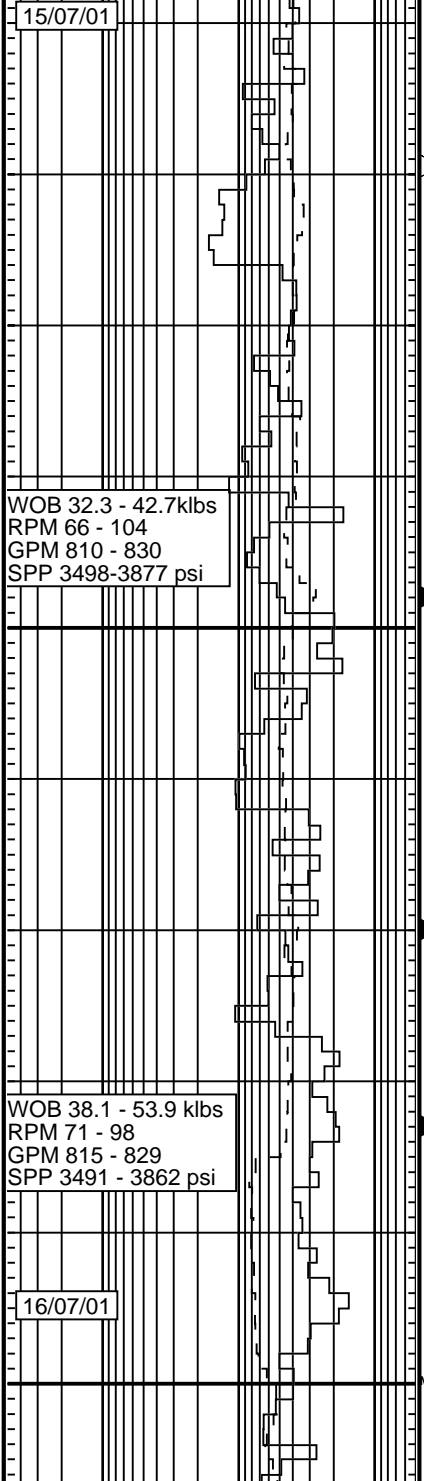
2350

W 10.1ppg V 60 PV/YP 21/42
Gels 10/13 E 27 EC 1

WOB 37.3 - 42.3 klbs
RPM 90 - 107
GPM 823 - 829
SPP 3798 - 3857psi

WOB 34.1 - 43.7 klbs
RPM 61 - 103
GPM 558 - 833
SPP 3729 - 3843psi





Gels 10/13 F 2.7 FC 1
Sol 8.5 Sd 0.5 pH 9.1
CI 45.5k Ca 180 KCl 6%

COAL:bit-sbbit,gysh blk-blk,brnsh blk,
sbconch-conch,brit i/p,vit-sbvit

SANDSTONE:clr-trnsl,occ milky,occ md lt gy
qtz gr,f-v crs,pred m,pred lse,p srt,sbang-
sbrnrd,sbspher,tr pyr cmt,tr nod pyr,fr inf por
n fluor

COAL:bit-sbbit,gysh blk-blk,brnsh blk,
sbconch-conch,brit i/p,vit-sbvit

Survey @ 2372.5m
Dev 2.31deg
Azi 342.01deg
TVD 2372.1m

SANDSTONE:clr-trnsl,occ op,occ md lt gy
qtz gr,f-v crs,pred m,pred lse,p srt,sbang-
sbrnrd,sbspher,tr pyr cmt,tr nod pyr,fr inf por
n fluor

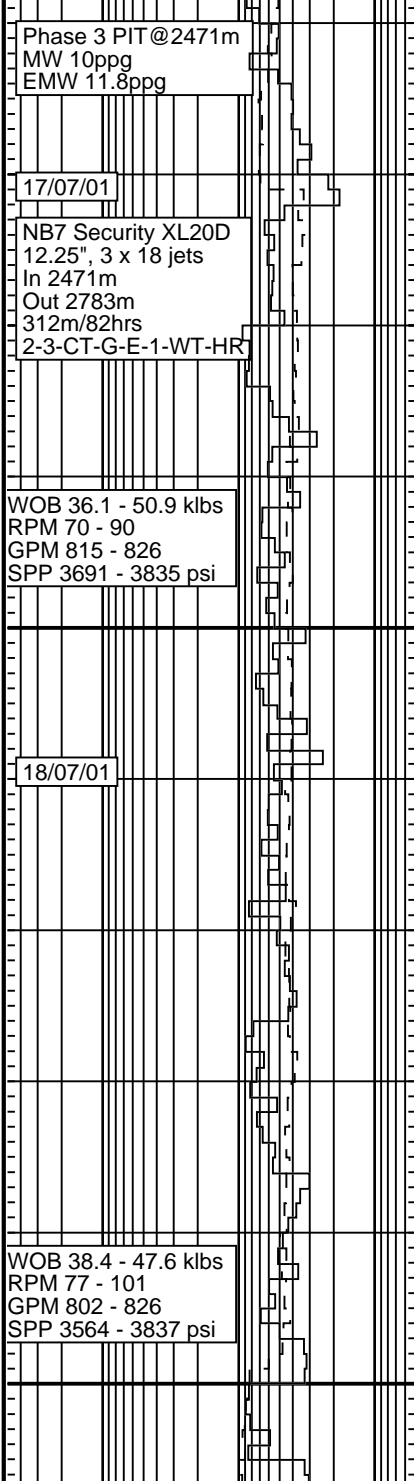
SILTSTONE:olv gy-dk gnsh gy,lt brnsh gy,v
sft-sft,occ frm,amor,sbblky-blky,com carb
spks,tr carb lam,grd to ARGILLACEOUS
SANDSTONE i/p

W 10.1ppg V 59 PV/YP 22/39
Gels 9/13 F 2.8 FC 1
Sol 8.5 Sd 0.5 pH 9.0
CI 46k Ca 200 KCl 6.25%

Carbide check @ 2449m
Theo strks = 10952
Actl strks = 11120
Avg Hole Size 12.4"

VOLCANICS-
BASALT:blk,dk brn/blk,gnsh-blk,frm,occ hd,
mafic,abd allotriomorphic pyroxene,com
olivine & biot,fld,mnr qtz,mot tex,glas
groundmass,r qtz or mnr calc fil amygdales

TUFF:rd-brn,sft arg microlam remnant
pyroxenes in microIn glas/ash groundmass,
com biot,occ emerald gn serpentine
phenocrysts



Phase 3 PIT @2471m
 MW 10ppg
 EMW 11.8ppg

17/07/01

NB7 Security XL20D
 12.25", 3 x 18 jets
 In 2471m
 Out 2783m
 312m/82hrs
 2-3-CT-G-E-1-WT-HR

WOB 36.1 - 50.9 klbs
 RPM 70 - 90
 GPM 815 - 826
 SPP 3691 - 3835 psi

2500

18/07/01

WOB 38.4 - 47.6 klbs
 RPM 77 - 101
 GPM 802 - 826
 SPP 3564 - 3837 psi

2550

T.G 0.14% / E.G 0.06%

ALTERED VOLCANICS:gnsh brn,lt gy,gnsh rd,pl rdsh brn,mot tex,some relict xln tex, pred withd fld,wh-pl gn clays (chlor,kao,serpentine),sft-v sft

Survey @ 2459.4m
 Dev 2.76deg
 Azi 344.71deg
 TVD 2458.9m

VOLCANICS-
 ALTERED VOLCANICS:pred gysh rd,mnr gnsh rd,gysh brn,gysh brn,gnsh brn,lt gy,pl rdsh brn,mot tex,tr glas tex in groundmass,v sft-sft,pred withd fld,gysh rd clays (chlor,kao,serpentine),occ serpentine,occ qtz,occ chal

BASALT:blk,dk brn/blk,gnsh-blk,frm-hd,mafic abd anhed pyroxene,com olivine & biot,fld,mnr qtz,mot tex,glas groundmass,r qtz or mnr carbonate min fil amygdales,mnr pyr,sec calc vn

TUFF:rd-brn,sft arg microlam remnant pyroxenes in microxln glas/ash groundmass,com biot,occ emerald gn serpentine phenocrysts

W 10.1ppg V 59 PV/YP 24/40
 Gels 10/13 F 2.8 FC 1
 Sol 8.5 Sd 0.5 pH 8.9
 Cl 45.5k Ca 160 KCl 5.75%

SILTSTONE: dsky yelsh brn,pl yelsh brn,loc tr carb lam,v sft-sft,amor,v arg

SANDSTONE:clr-trnsl qtz gr,f-m,pred m,tr crs,sbang,mod srt,pred lse,mnr f gr,sbrndd,tr fri agg w/ tr wk arg cmt,f inf por,fluor

FLUORESCENCE 2525-2530m
 Trace:dull yelsh gn,sptd fluor in fine gr aggs,slow weak direct cut,weak slow cream diffuse crush cut,thin dull yel film res

SANDSTONE:clr-trnsl qtz gr,f-m,pred m,tr crs,sbang-sbrndd,sbspher,mod srt,pred lse,occ hd,tr f aggs,r pyr cmt,tr sil cmt,tr calc cmt r c frags,p inf por,n shw

SILTSTONE:yelsh brn,pl yelsh brn,v sft-sft,sbbly,occ amor,mnr carb spks,mnr carb lam arg i/p

SILTSTONE:wh-v lt gy,v pl or-pl yelsh brn,v sft-sft,sbbly,occ amor,tr carb spks,tr rndd sil conc,grd to CLAYSTONE i/p

Survey @ 2585.5m
Dev 1.84deg
Azi 320.27deg
TVD 2584.9m

VOLCANICS-

ALTERED VOLCANICS:pl olv-gysh olv,lt gنش gy-gنش gy,wh-v lt gy,v sft-sft,tr mnd sil conc,tr rem xn structure

BASALT:blk,dk brnsh blk,gنش blk,brnsh gy, frm-hd,mafic,tr anhed pyroxene,tr olivine & biot,tr fld,tr qtz,tr sec calc & qtz vn

SILTSTONE:dk yelsh brn,dsky yelsh brn,olv gy,brnsh gy,sft,frm i/p,sbbiky-blky,tr carb spks,tr carb lam,grd to CARBONACEOUS SILTSTONE i/p

SANDSTONE:clr-op qtz gr,pred lse & cln,f-crs,pred m,pred sbang,loc sbrndd,sbspher,tr f-m fri agg w/ wk mnr wh arg mtrx,fr inf por,p vis por,fluor

FLUORESCENCE 2590-2595m
Trace:dim pinkish yel sptd fluor,v weak direct cut,slow weak cream diffuse crush cut,thick gنش yel ring res

FLUORESCENCE 2595-2605
10%-trace:dim pl bl sptd fluor, weak direct cut,slow weak blsh yel diffuse crush cut,thick pl gنش yel ring res

FLUORESCENCE 2610-2619
Trace:dim pkish yel sptd fluor,tr weak direct cut,tr v slow weak dim pl bl crush cut,tr res

SANDSTONE:clr-wh,trnsl,op,tr mlky,f-pred m-vcrs,sbang,tr frac gr,p srt,pred lse and cln tr wk sil cmt,pyr nod,fr inf por

FLUORESCENCE 2620-2630
5%,dull pl gn,no direct cut,tr v slw pl yel cream crush cut,thn mod solid gنش yel res ring

SANDSTONE:(1)clr-wh,trnsl-op qtz gr,tr mlky,f-m,occ crs-vcrs,sbang,tr frac gr,p srt,tr wk sil cmt,tr pyr nod,fr-g inf por,(2)wh-lt brn,f m,fri agg,sbrndd,abd arg mtrx,com lit,tr wk sil cmt,fr vis por,10% fluor

FLUORESCENCE 2635-2640
10%,dull,pch lt gn,no direct cut,tr v slw pl bl/cream crush cut,thn broken lt bl/gنش res ring

SILTSTONE:lt brnsh gy-brnsh gy,dk yelsh

FLC @ 2619m (static)

WOB 39.4 - 57.0 klbs
RPM 66 - 87
GPM 795 - 819
SPP 3575 - 3828 psi

19/07/01

WOB 41.0 - 56.1 klbs
RPM 71 - 90
GPM 796 - 822
SPP 3540 - 3787 psi

2600

2650

FLC @ 2664m (static)

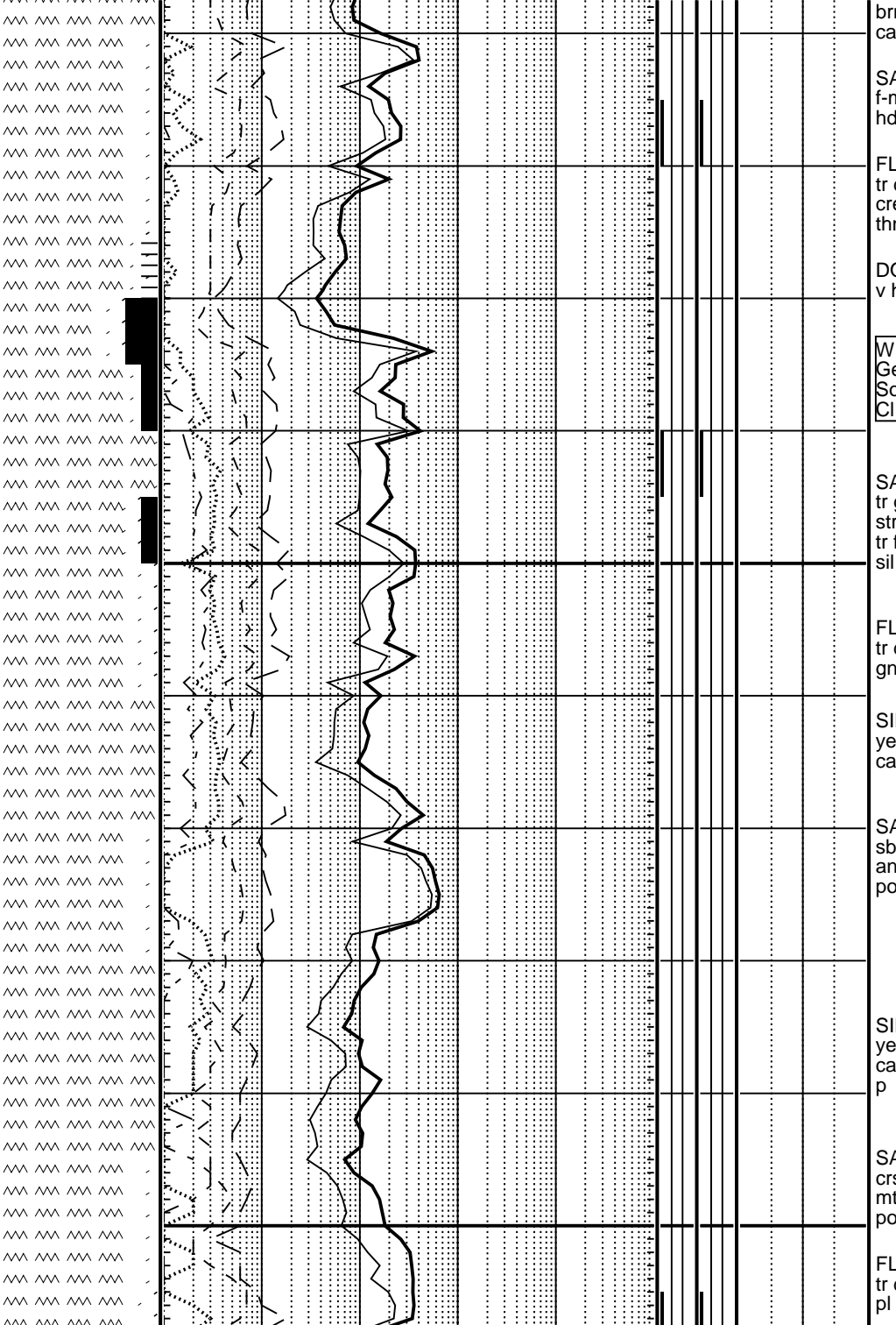
20/7/01

WOB 43.4 - 56.3 klbs
RPM 68 - 86
GPM 801 - 818
SPP 3576 - 3765psi

WOB 53.0 - 55.7 klbs
RPM 74 - 83
GPM 800 - 806
SPP 3704 - 3084psi

2700

2750



brn-dsky yelsh brn, sft frm, sbbly, amor i/p, tr carb spk & lam, tr nod pyr

SANDSTONE: clr-trnsl qtz gr, occ op, pl gy, lse, f-m, occ crs sbang, tr frac gr, p srt, tr arg mtr, tr hd calc cmt aggs, fr inf por, fluor

FLUORESCENCE 2665-2670
tr dim yelsh gn sptd fluor, slow bleeding cream direct cut, instant dk cream crush cut, thn pl yel res ring

DOLOMITE: dk yelsh bn, dsky yel bn, crptoxln v hd, blyk, flinty

W 10.1ppg V 66 PV/YP 24/36
Gels 8/13 F 3.0 FC 1
Sol 8.5 Sd 1 pH 8.7
Cl 46k Ca 120 KCl 6.25%

SANDSTONE: clr-trns wh, pl gy, pred m-vcrs, tr gran, sbang-sbrndd, p srt, mnr frac gr, loc strong pyr cmt, r pyr nod, tr gy cht, pred lse, loc tr f-m gr aggs w/ tr arg mtr and mnr mod hd sil cmt, p inf por, v p vis por, tr fluor

FLUORESCENCE 2690-2695
tr dim yelsh gn sptd fluor, slow bleeding bish gn direct cut, mod bish gn crush cut

SILTSTONE: dsky yelsh brn-dk yelsh brn, yelsh gy-lt olv gy, sft, frm i/p, tr carb spks, tr carb lam, tr nod pyr

SANDSTONE: clr-trnsl qtz gr, pl gy, lse, f-m, sbang-sbrndd, tr f-m gr aggs w/ tr arg mtr and mnr mod hd sil cmt, p srt, p inf por, p vis por, n fluor

SILTSTONE: dsky yelsh brn-dk yelsh brn, yelsh gy-lt olv gy, sft, disp i/p, tr carb spks, tr carb lam, tr nod pyr, grd to vf SANDSTONE i/p

SANDSTONE: clr-trnsl qtz gr, lse, vf-f, occ v crs, tr gran, sbang-sbrndd, tr f gr aggs w/ tr arg mtr and r pyr cmt, tr mic, p srt, vp inf por, p vis por, n fluor

FLUORESCENCE 2755-2765
tr dim pl bish yel sptd fluor, no direct cut, tr thk pl yelsh gn res

21/07/01

FLC @ 2786m (static)

NB8 Reed EHP51
12.25", 3 x 18 jets
In 2783m
Out 2945
162m/40.3hrs
2-2-WT-A-F-I-ND-TD

WOB 36.5 - 57.0 klbs
RPM 66 - 96
GPM 794 - 811
SPP 3614 - 3817psi

2800

FLC @ 2824m (static)

FLC @ 2830m (static)

CBU @ 2835m

WOB 37.4 - 54.7 klbs
RPM 75 - 106
GPM 782 - 810
SPP 3568 - 3868psi

2850



T.G 0.48% / B.G 0.06%

SANDSTONE:clr-trnsl,wh,tr mlky qtz gr,pred lse,f-crs,pred m,tr v crs,mod srt,pred sbang-sbrndd,mnr f-m gr aggs w/ mnr wh-pl pksh gy arg mtrx,tr pyr cmt,tr pyr nod,p vis por, mod inf por,tr fluor

W 10.1ppg V 62 PV/YP 25/38
Gels 9/13 F 3.2 FC 1
Sol 9.6 Sd 1 pH 9.0
Cl 44k Ca 120 KCl 1.25%

Survey @ 2771.0m
Dev 2.74deg
Azi 012.81deg
TVD 2770.3m

FLUORESCENCE 2790-2795
tr dim pl gnsh yel sptd fluor,no direct cut,v wk v slw pl cream diffuse crush cut,tr res

SANDSTONE:clr-trnsl,wh,mnr mlky,tr lt gy qtz gr,pred lse,pred m-v crs,tr gran,tr frac gr, p srt,ang-sbrndd,tr f-m gr aggs w/ mnr wh arg mtrx,tr mod hd sil cmt,tr pyr cmt,tr nod pyr,tr-5% ylsh brn,v hd dol w/ tr pyr,p vis por, p-fr inf por,no fluor

TRACE COAL:brnsh blk-blk,dull,sft frm, sbbkly,irr frac

SILTSTONE:lt brnsh gy,lt gnsh gy,dsky yelsh brn,sft frm,sbbkly,tr carb spks,tr chal

W 10.1ppg V 63 PV/YP 25/41
Gels 8/14 F 2.8 FC 1
Sol 9.4 Sd 0.5 pH 9.5
Cl 47k Ca 40 KCl 6.5%

SANDSTONE:clr-trnsl qtz gr,lse,occ agg,f-m occ crs,p-mod srt,tr frac gr,sbang-sbrndd,tr pyr cmt,tr mic flk,p vis por,p-fr inf por,no fluor

TRACE CHERT:pl yelsh brn-dk yelsh brn,v hd,blky,crpxln,dol i/p,tr pyr

SILTSTONE:lt brnsh gy-brnsh gy,lt gnsh gy, dsky yelsh brn,sft frm,sbbkly,disp i/p,tr carb spks,tr carb lam,tr pyr

W 10.1ppg V 58 PV/YP 23/38
Gels 7/14 F 3.2 FC 1
Sol 9.5 Sd 0.75 pH 9.0
Cl 46k Ca 120 KCl 6.25%

SANDSTONE:clr,trnsl,op qtz gr,f-crs,pred f-
m,mod srt,sbang-sbrndd,pred lse,mnr f aggs
w/ abd kaolin mtrx,tr pyr cmt,vp vis por,p inf
por,5% fluor

SILTSTONE:lt brnsh gy-brnsh blk,lt gnsh gy,
dsky yelsh brn,sft-frm,sbbkly,tr carb spks,tr
carb lam,tr pyr nod,grd to
CARBONACEOUS SILTSTONE i/p

SANDSTONE:(1)clr-trnsl qtz gr,occ op,tr
milky,f-crs,pred m,p srt,sbang-sbrndd,pred
lse tr f agg,r frac gr,gd inf por,(2)dk yelsh brn
pl yelsh brn,v f-f,tr lit,tr carb spks,tr lt brn arg
mtrx,wk sil-dol cmt,grd to SILTSTONE i/p

FLUORESCENCE 2910-2915
10%-dull,lt yel pch,no direct cut,no crush cut
no res

FLUORESCENCE 2915-2920 35% 2920-
2925 10%
dom dull yel-r lt gn,pch,no direct cut,v wk
crush cut,tr broken lt crm res rng

SANDSTONE:(1)clr-trnsl qtz gr,occ op,tr
milky,f-crs,pred m,p srt,sbang-sbrndd,pred
lse,tr f agg,abd wh arg mtrx,fr inf por,(2)agg
off wh,v f-f,abd wh arg mtrx,r wk sil cmt,fluor

FLUORESCENCE: 2930-2940 5%, 2940-
2945 tr :dull blsh wh spttd fluor,no direct cut,
pl yel bleeding direct cut,mod yelsh wh
diffuse crush cut,thk rng res

SANDSTONE:clr-trnsl qtz gr,occ op,tr milky,
pl gy,f-crs,pred m,mod srt,sbang-sbrndd,
pred lse,com kao mtrx,tr mic flk,fr inf por,
fluor

Drill to 2945m. Run E-Logs
1:PEX-HALS-DSI-HNGS-ACTS
2:MDT-GR-ACTS
3:FMI-HRLA-GR-ACTS
4:MDT-GR-ACTS
4a:MDT-GR-ACTS

23/0701

WOB 45.1 - 55.2 klbs
RPM 79 - 94
GPM 779 - 809
SPP 3543 - 3795psi

FLC @ 2912m (static)

2900

CBU @ 2925m

FLC @ 2928m (static)

FLC @ 2933m (static)
CBU @ 2934m

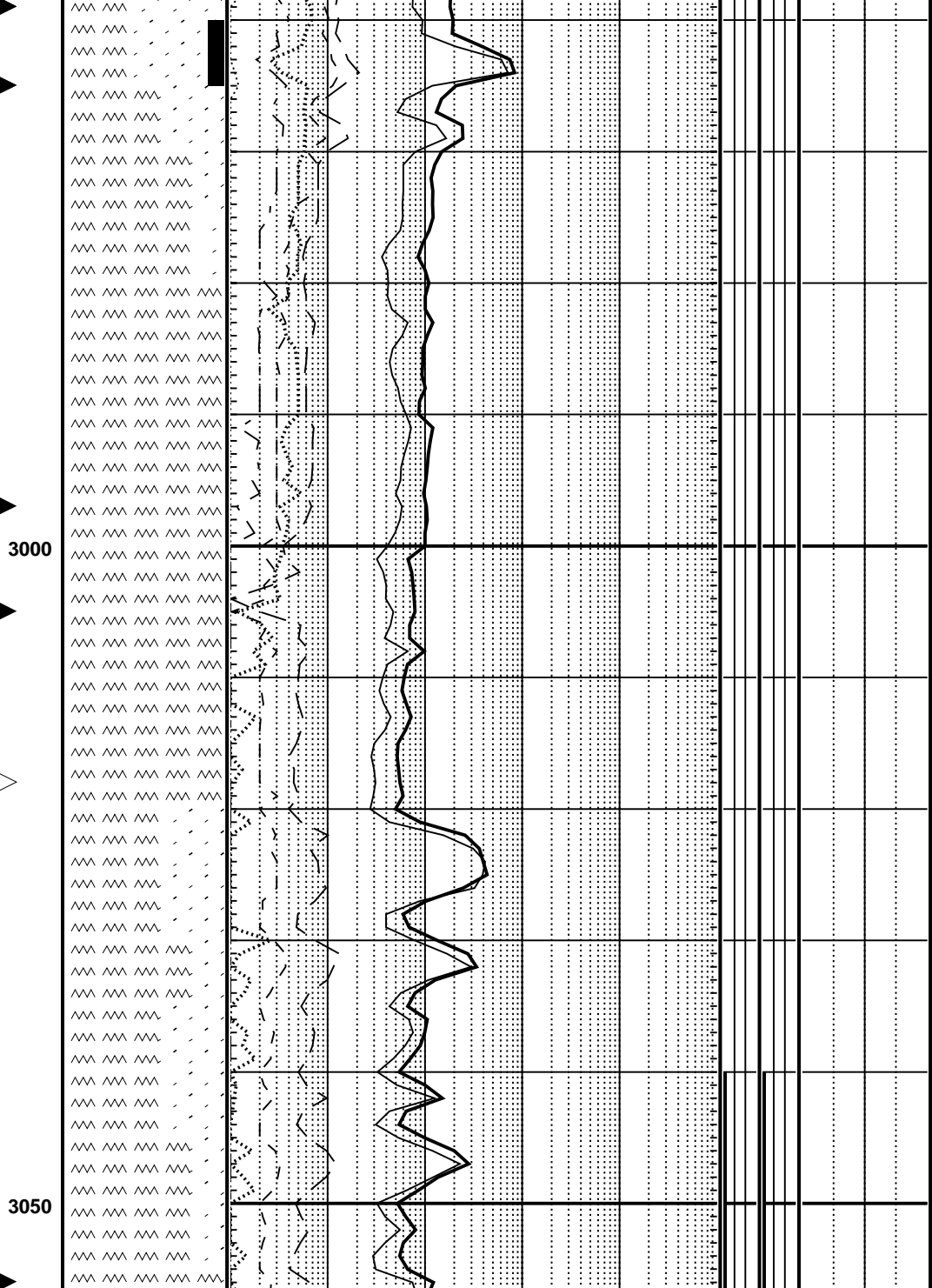
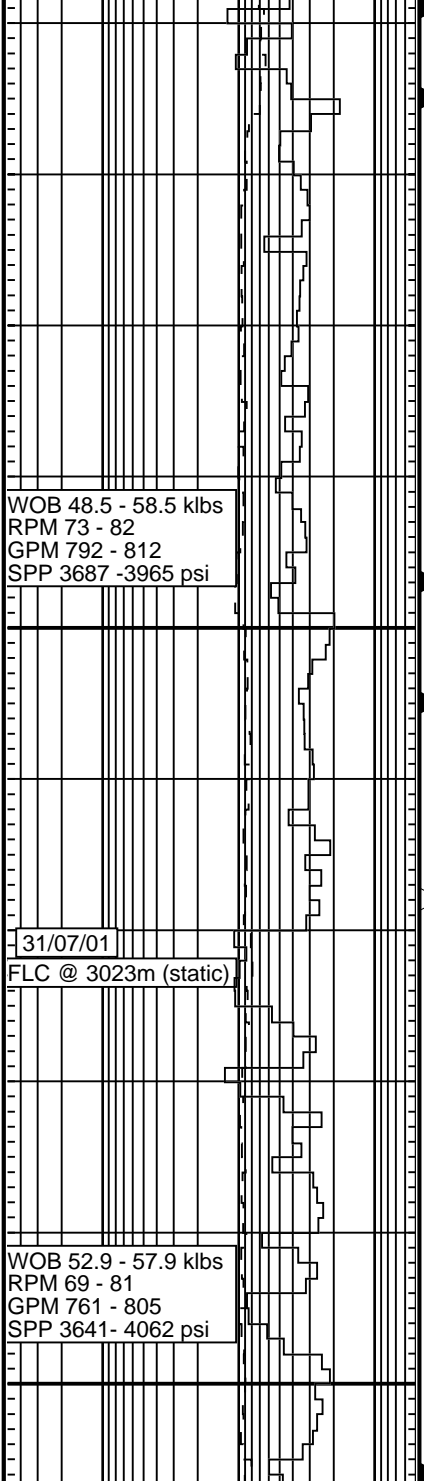
WOB 14 - 56 klbs
RPM 54 - 91
GPM 764 - 804
SPP 3591 - 3954 psi

24-30/07/01

NB9 Security XL20D
12.25" 3 x 18 Jets
In: 2945m
Out: 3138m
52.4hrs/193m
2-2-CT-HR-FE-1/16"-WT-TD

2950

CO2 0.14% / G 17.54%



SANDSTONE:clr-trnsl qtz gr,pred lse,f-m,
occ crs,sbang-sbrnrd,sbspher,p-mod srt,r v
ly gy arg mtrx,tr pyr cmt,tr sil cmt,tr chert,tr
dol,p vis por,fr inf por,n fluor

SILTSTONE:pl yelsh brn,lt brnsh gy,gnsh blk
blk,mod hd,occ sft,stky i/p,tr carb spks,tr
carb lam

SILTSTONE:pl yelsh brn,lt brnsh gy,gnsh blk
blk,mod hd,occ sft,stky i/p,tr carb spks,tr
carb lam,grd to ARENACEOUS SILTSTONE
i/p

Carbide check @ 2999m
Theo strks = 14314
Actl strks = 14434
Avg Hole Size 12.25"

SILTSTONE:1)dsky yelsh brn,sbblk,amor,
sft-frm,arg i/p,tr carb spks,tr carb lam,2)
brnsh blk,frm-mod hd,occ hd,pred arg,aren i
p,tr sil cmt,tr mic

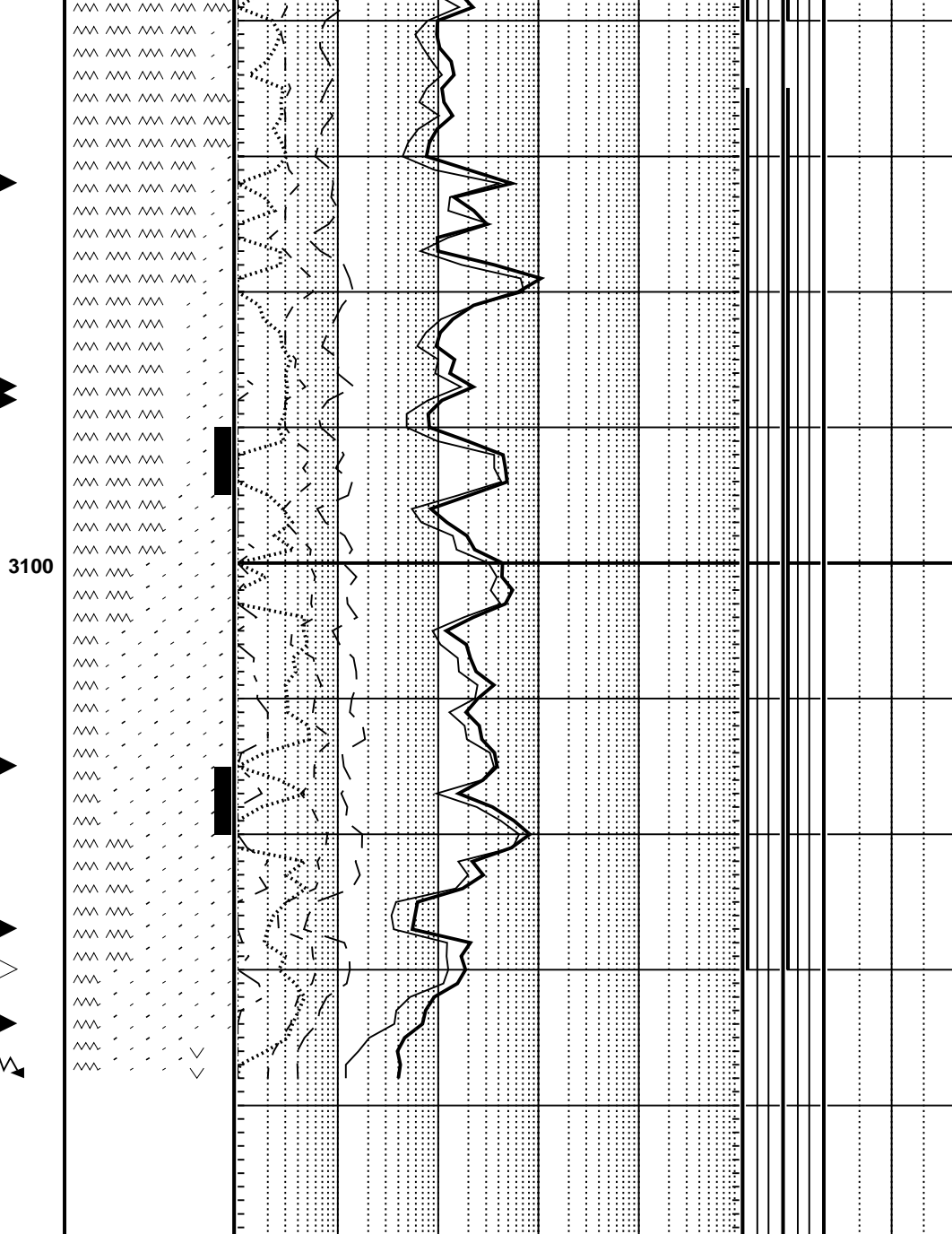
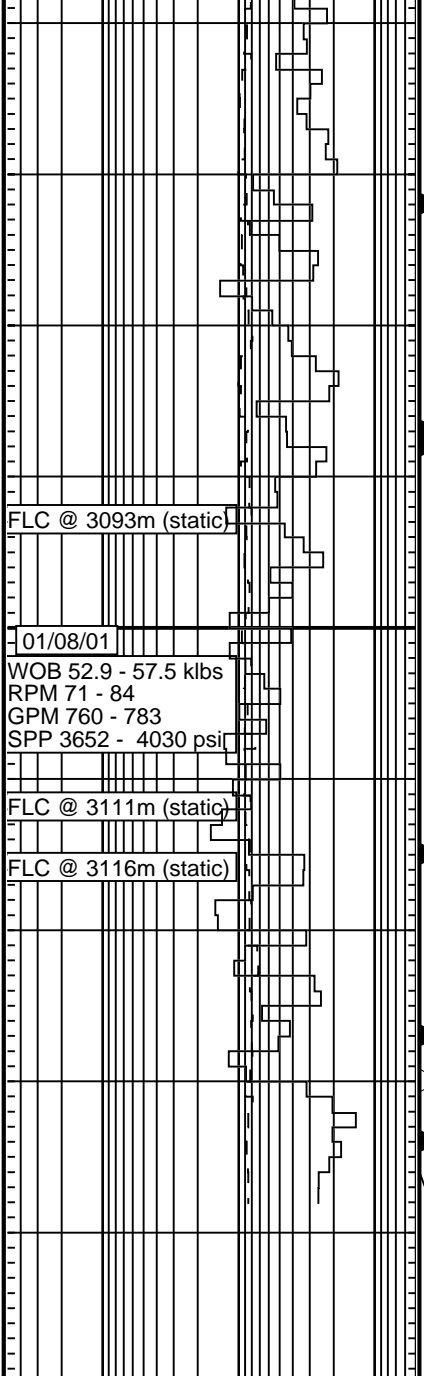
TRACE DOLOMITE:dk yelsh brn,dsky brn,v
hd,flnty,blk,crpxin

W 10.1ppg V 55 PV/YP 23/38
Gels 9/13 F 3.3 FC 1
Sol 8.7 Sd 0.25 pH 9.0
Cl 43k Ca 80 KCl 6.0%

SANDSTONE:clr-trnsl,op qtz gr,f-v crs,pred
m,sbang-sbrnrd,mod srt,abd wh arg mtrx,tr
mic flks,p vis por,fr inf por,tr mod brt pnk min
fluor

FLUORESCENCE: 3040-3060 5%-tr:dim,
ptchy,dull yel,v slw bleeding cut,mod fast lt
yel crush cut w/mod bt yel gn res ring

SANDSTONE:1)clr-trnsl,op qtz gr,lse,f-m,
sbang,mod srt,com wh arg mtrx,tr mod arg
cmt,fr inf por,tr fluor,2)off wh,v lt brn,f grn
agg,sbang-rnrd,arg to r wk sil cmt,abd off
wh arg mtx,p vis por



SILTSTONE:1)dsky yelsh brn,sbbiky,amor, frm,sft i/p,arg i/p,tr carb spks,tr carb lam 2) brnsh blk,frm-mod hd,occ hd,pred arg,aren i/p,sil i/p,tr mic,tr pyr

FLUORESCENCE: 3065-3095 tr:dim,sptd, dull or yel,slw bleeding cut,lt crm diffuse crush cut w/mod bl res ring

SANDSTONE:1)trnsi-op qtz gr,occ clr,lse,f-m,occ crs,sbang,mod srt,com wh arg mtrx,tr mod arg cmt,fr inf por,tr fluor,2)off wh,v lt brn f agg,sbang-rnd,arg to r wk sil cmt,abd off wh arg mtrx,mtrx supported i/p,p vis por,tr fluor

W 10.1ppg V 56 PV/YP 24/41
Gels 9/14 F 2.9 FC 1
Sol 7.4 Sd 0.25 pH 9.5
Cl 47.5k Ca 80 KCl 6.25%

FLUORESCENCE: 3095 - 3115m tr-5%:mod brt blsh yel sptd fluor,slw bleeding direct cut, mod diffuse lt blsh crm crush cut,thn crm res ring

SANDSTONE:1)trnsi-op,pred clr qtz gr,lse,f-v crs,pred m,sbrndd-sbang,mod srt,com wh arg mtrx,loc tr Dol cmt,tr disse mtrx,tr frac grns,pred lse,tr pyr,5% fluor,2)off wh/v lt brn agg,f-m,sbang-sbrndd,arg cmt,abd off wh arg mtrx,p vis por

FLUORESCENCE: 3115 - 3130m 5 - 10%: mod brt blsh yel sptd fluor,slw bleeding direct cut,wk diffuse pl blsh wh crush cut,thn ring res

SANDSTONE:1)trnsi-clr qtz gr,occ op-mky, blk stn,pred lse,m-v crs,sbang-ang,p srt,com wh arg mtrx,wk-strong sil cmt,tr disse mtrx, com frac grns,tr chlor,fr inf por,tr fluor,2)off wh-v lt brn agg,f-m,sbang-sbrndd,abd off wh arg mtrx,mod sil cmt,p vis por

VOLCANICS: (alt DIORITE),yelsh gy,mttld gn/wh.lt gn,wh/blk spk,f gn,dom qtz (60%), ylsh gy f gn fld,com alt,prom blk-brnsh blk pyx & amphibole,com alt,calc component in gdmass,chl psnt,more alt spec devoid of mafics

Drill to 3138m MDRT TD @ 09:00 01 Aug 2001
Logs Run:
1:TLD-HGNS-HNGS
2:HALS-HBNS-DSI-LEHQT
3:MDT-GR-LEHQT

4:DUAL-CSA1-VSP
5:MDT-GR-LEHQT
6:CST-GR

3200

3250