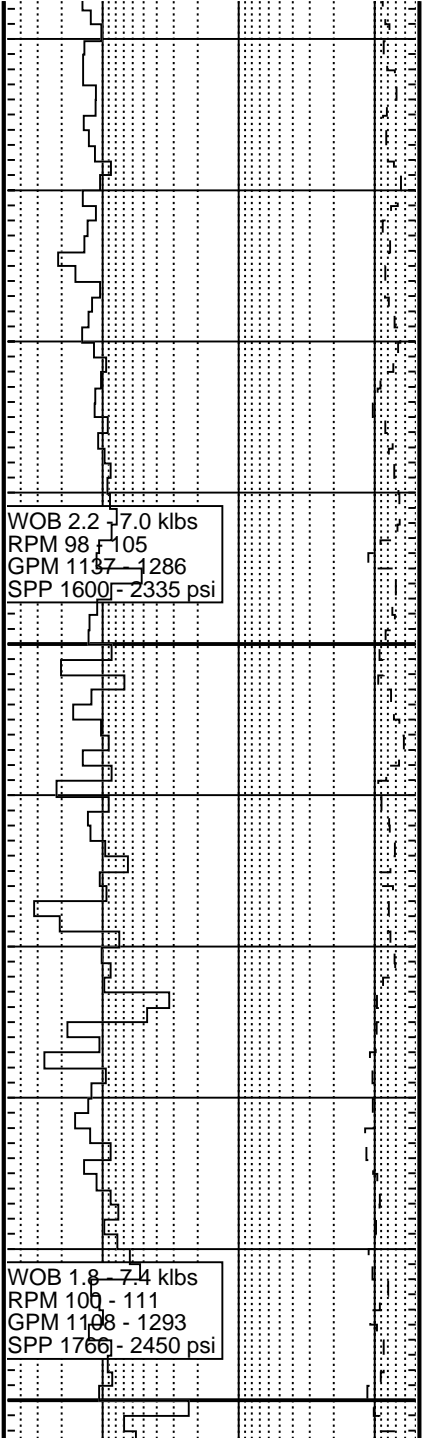




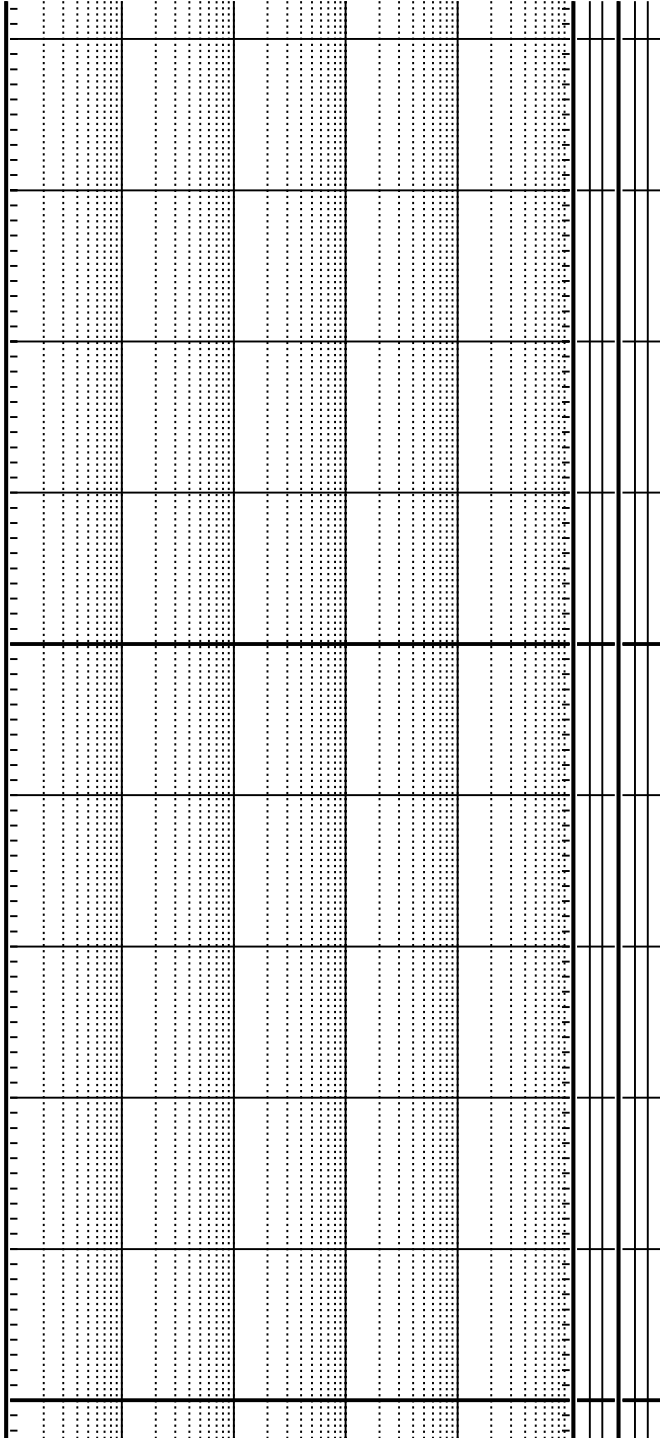
Beardie-1

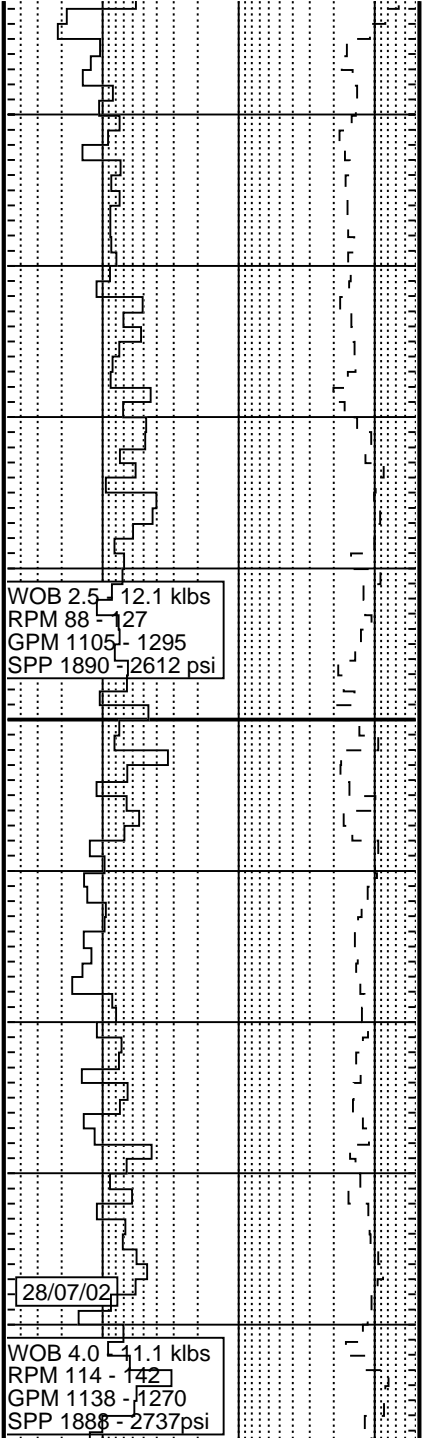
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250

300



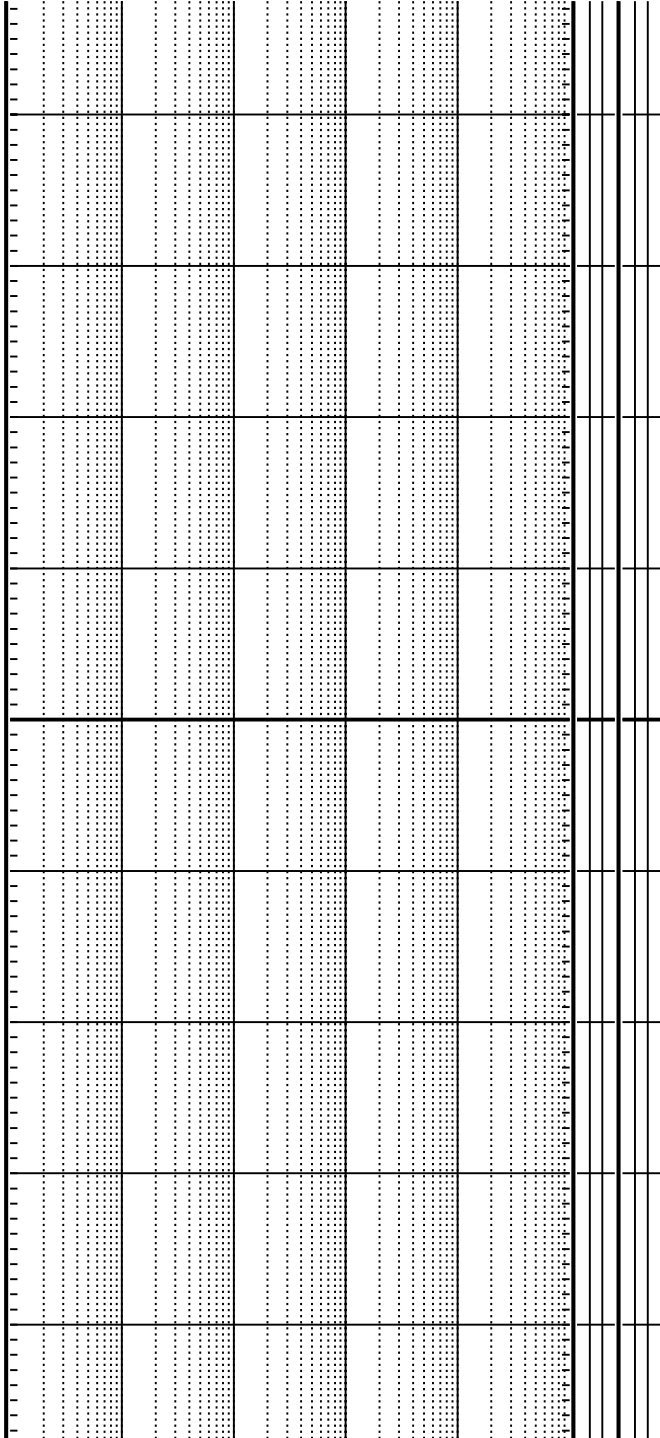


WOB 2.5 - 12.1 klbs
RPM 88 - 127
GPM 1105 - 1295
SPP 1890 - 2612 psi

28/07/02

WOB 4.0 - 11.1 klbs
RPM 114 - 142
GPM 1138 - 1270
SPP 1888 - 2737 psi

350



Drill with seawater & HiVis sweeps
Returns to seabed

Drill with seawater & HiVis sweeps
Returns to seabed

RPM 113 - 134
GPM 1096 - 1226
SPP 2061 - 2833psi

500

WOB 5.7 16.6 klbs
RPM 101 - 137
GPM 1107 - 1249
SPP 2050 - 2939psi

550

Drill with seawater & HiVis sweeps
Returns to seabed

Drill with seawater & HiVis sweeps
Returns to seabed

WOB 4.7 - 17.6 klbs
RPM 112 - 137
GPM 1096 - 1269
SPP 2076 - 2953psi

600

WOB 2.5 - 12.4 klbs
RPM 91 - 133
GPM 1123 - 1281
SPP 2113 - 2936psi

650

Drill with seawater & HiVis sweeps
Returns to seabed

Drill with seawater & HiVis sweeps
Returns to seabed

WOB 7.3 - 18.8 klbs
RPM 113 - 137
GPM 1005 - 1242
SPP 1919 - 2920psi

700

WOB 7.1 - 14.4 klbs
RPM 102 - 135
GPM 864 - 1245
SPP 1792 - 2951psi

750

Drill with seawater & HiVis sweeps
Returns to seabed

Drill with seawater & HiVis sweeps
Returns to seabed

WOB 6.6 - 14.0 klbs
RPM 108 - 186
GPM 841 - 1272
SPP 1263 - 3255psi

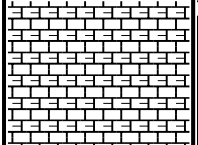
800

WOB 6.4 - 12.1 klbs
RPM 116 - 134
GPM 1132- 1268
SPP 2351 - 3275psi

850

29-31/07/02

NB3 Reed Hycalog DSX195DGNUW
12.25" 5 x 14 jets
In 863m
716m/28.1hrs
5-8-LT-N-X-1-RO-PR



-Chromatograph and total gas
calibrated @ 08:40 on 30/07/02



Drill with seawater & HiVis sweeps
Returns to seabed

Drill with seawater & HiVis sweeps
Returns to seabed

Drill 17.5" hole to 863m
Set 13.375" csg shoe @ 849.1m
Drill ahead 12.25" hole

Displace hole to KCL/PHPA/Glycol mud system
PIT @ 849.1m
MW 8.9ppg
EMW 14.73ppg

WOB 1.8-21.8 klbs
RPM 61-156
GPM 845-1143
SPP 1915-3188 psi

WOB 7.0-16.4 klbs
RPM 128-158
GPM 719-938
SPP 1495-2202 psi

900

950

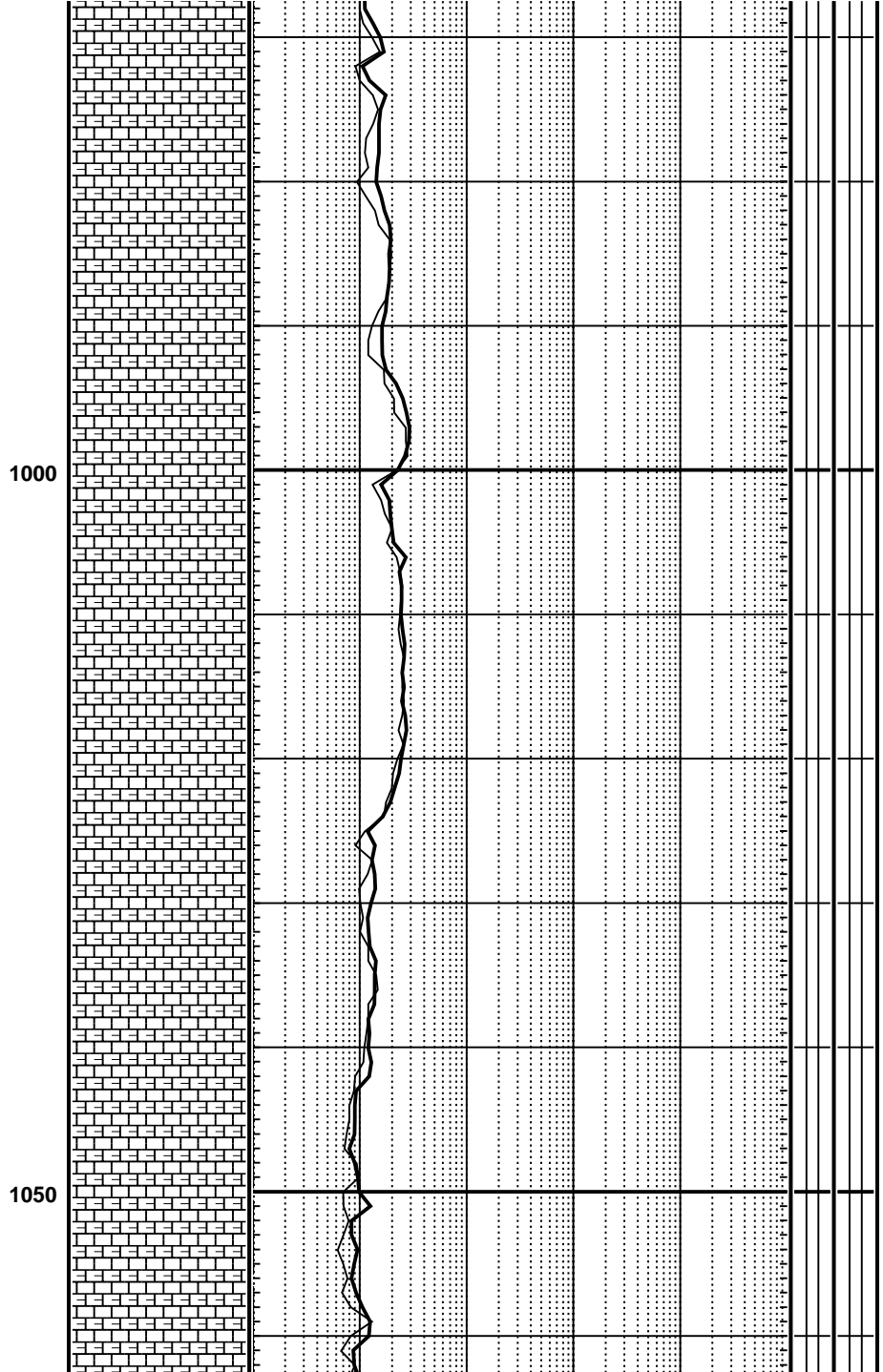
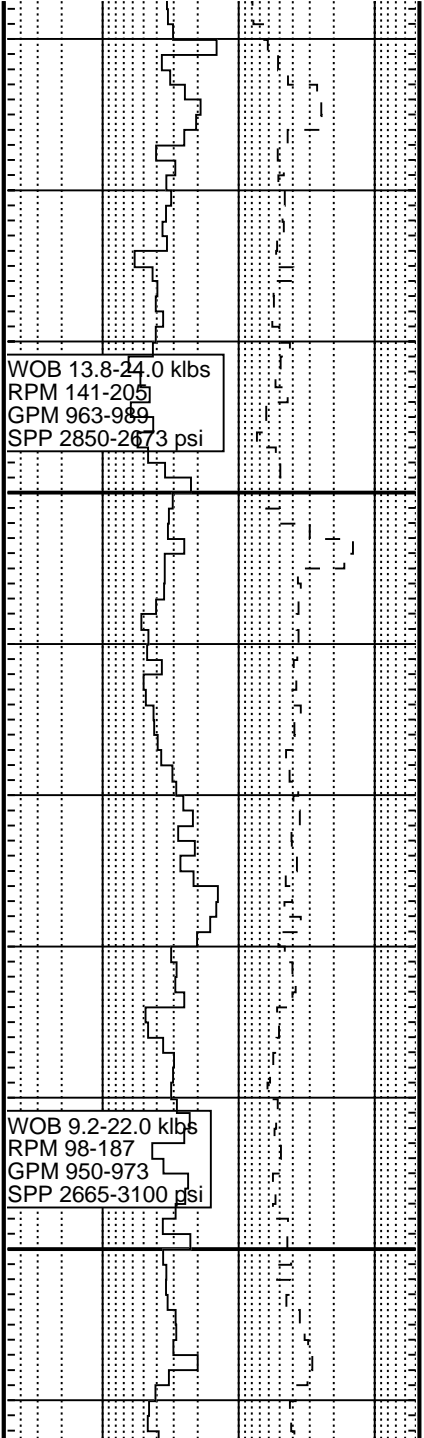
W 9.0ppg V 59 PV/YP 10/16
Gels 4/5 F 5.6 FC 1.0
Sol 1.2 Sd 0.35 pH 10
Cl 33k Ca 280 KCl 6.0

ARGILLACEOUS CALCILUTITE:m lt gy-m gy,olv gy,m dk
gy,frm,sbblky-blky,tr glauc,tr pyr,tr ech

Survey @ 907.95m
Dev 0.55deg
Azi:184.35deg
TVD 907.93m

ARGILLACEOUS CALCILUTITE:m lt gy-m gy,olv gy,lt gy,
frm,sbblky-blky,tr glauc,tr pyr,tr Foram

ARGILLACEOUS CALCILUTITE:m lt gy-m gy,lt gy,occ olv
gy-brn gy,sft-frm,sbblky-blky,tr glauc,tr pyr,tr Foram



ARGILLACEOUS CALCILUTITE:m lt gy-m gy,lt gy-lt olv gy, frm-mod hd,occ fri,sbblky-blky,tr glauc,tr pyr,tr carb mat,tr xln calc

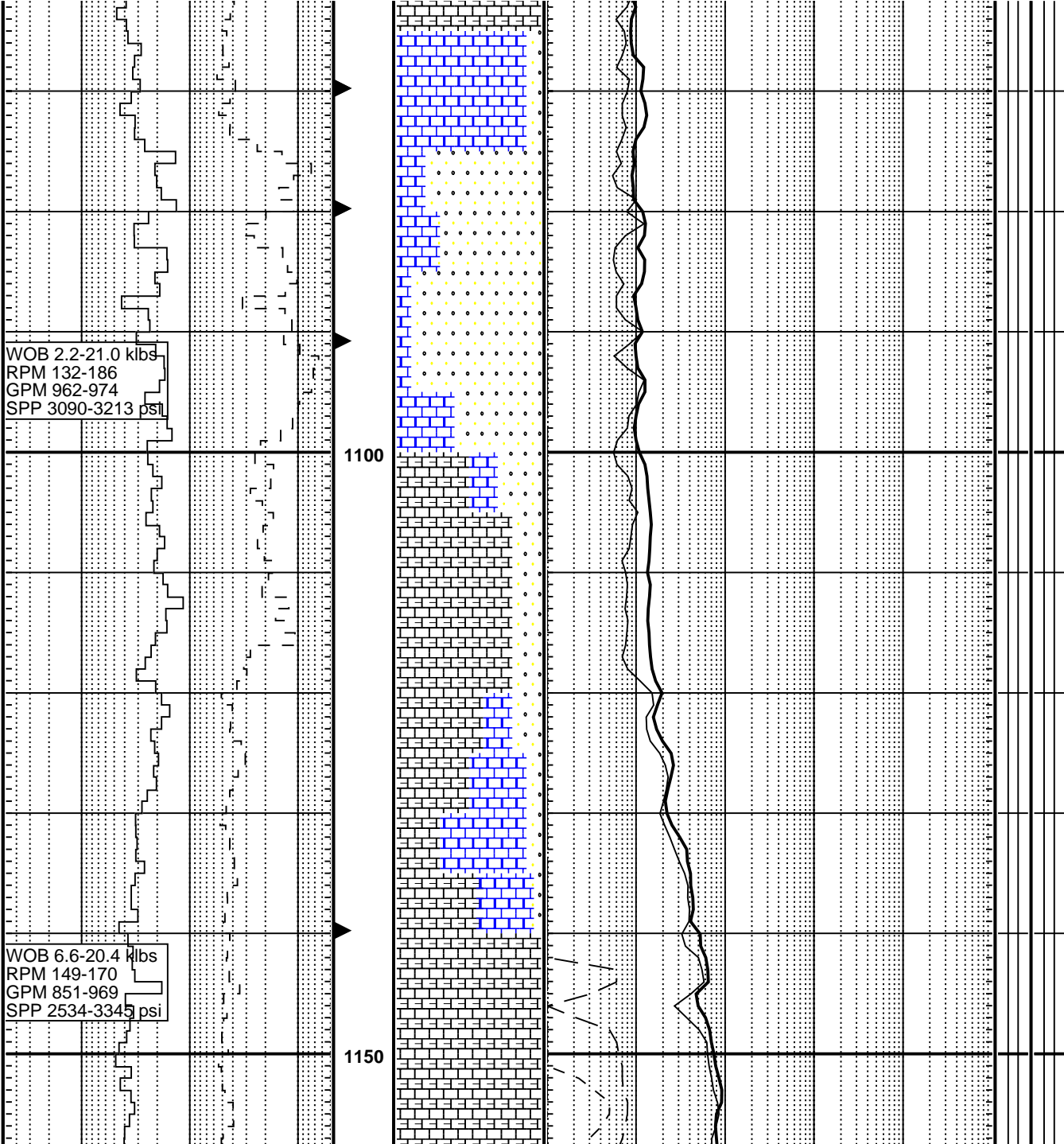
ARGILLACEOUS CALCILUTITE:m lt gy-m gy,occ m dk gy, sft-frm,amor-sbblky,tr glauc,tr pyr,tr carb mat,g/t CALCAREOUS CLAYSTONE i/p

Survey @ 996.99m
Dev 0.70deg
Azi:198.07deg
TVD 996.93m

ARGILLACEOUS CALCILUTITE:v lt gy-m lt gy,m gy-m dk gy,sft-frm,amor-sbblky,abd arg mtx,tr f-crs qtz gr,tr glauc,tr carb mat,tr rexld calc,g/t CALCAREOUS CLAYSTONE i/p

Survey @ 1025.73m
Dev 0.60deg
Azi:210.10deg
TVD 1025.71m

ARGILLACEOUS CALCILUTITE:wh-v lt gy,m lt gy-m dk gy, olv gy-brnsh gy,sft,occ frm,amor-sbblky,abd arg mtx,tr m-crs lse qtz gr(trnsp-trnsl,sbang-sbrnidd,wl srt),tr glauc,tr carb spks,tr rexld calc,g/t CALCAREOUS CLAYSTONE i/p



ARGILLACEOUS CALCISILTITE:wh-lt gy,sft-frm,amor-sbblky,com glauc

SANDSTONE:wh-lt gy,trnsl,occ clr qtz gr,lse,f-crs,pred med crs,tr v crs,sbang-rnnd,pred sbrnnd,sbsphr,p srt,tr carb mat,p inf por,n shw

SANDSTONE:clr-trnsl qtz gr,pred lse,occ mod hd-hd aggs,f crs,pred m-crs,sbang-rnnd,pred sbrnnd,sbelong-sbsphr,mod-wl srt,tr pyr cmt,tr calc cmt,p vis por,n shw

ARGILLACEOUS CALCISILTITE:wh-lt gy,sft-frm,amor-sbblky,com glauc

Survey @ 1083.00m
Dev 0.46deg
Azi:228.69deg
TVD 1082.97m

SANDSTONE:clr-trnsl qtz gr,lse,f-crs,pred m-crs,sbelong-sbsphr,sbang-rnnd,mod-wl srt,calc cmt,p inf por,n shw

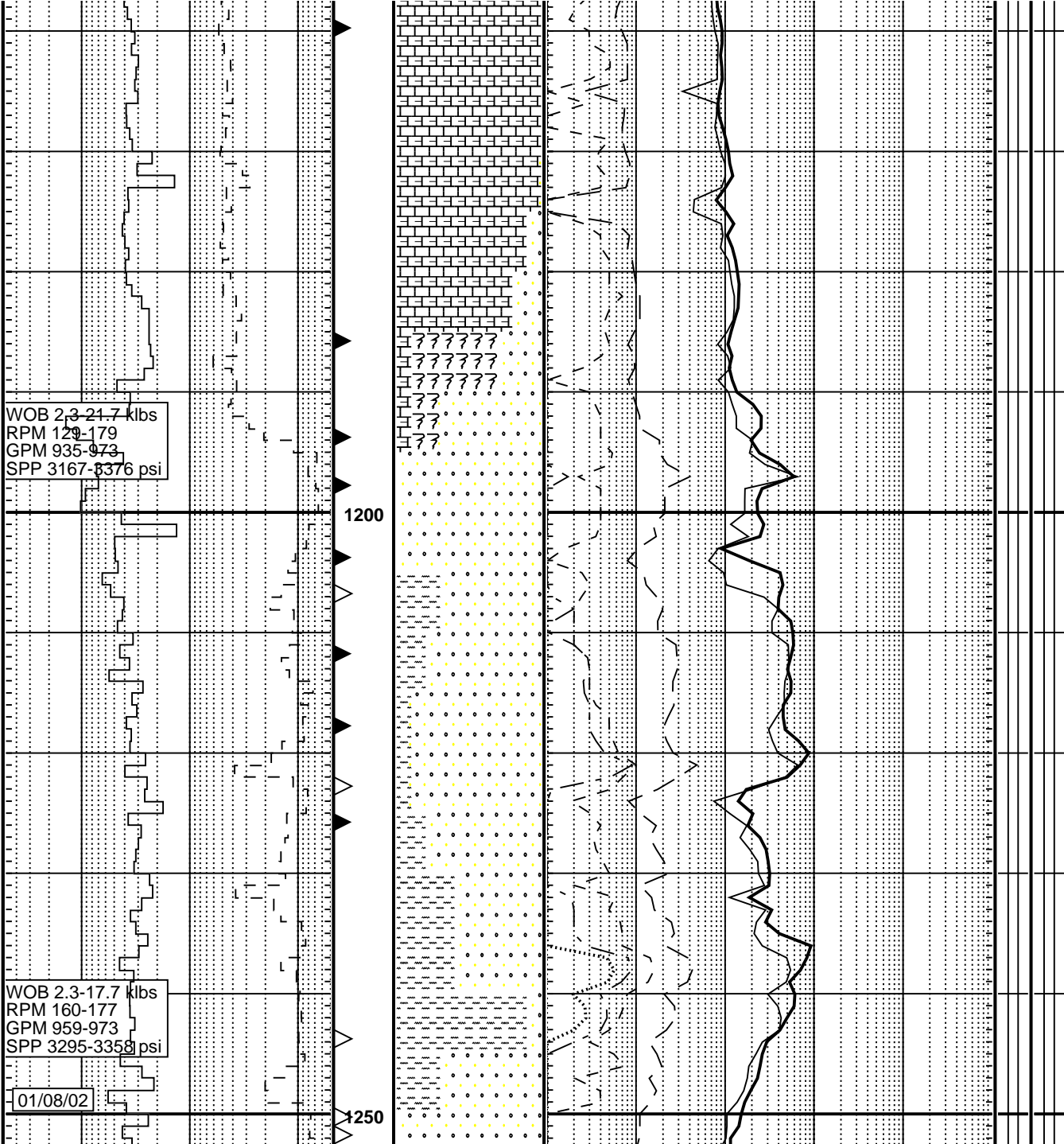
CALCILUTITE:wh-v lt gy,sft-frm,amor-sbblky,tr glauc

ARGILLACEOUS CALCISILTITE:m gy-m dk gy,sft-mod hd,amor-sbblky,tr glauc,tr carb mat,tr xln calc

ARGILLACEOUS CALCILUTITE:m gy-m dk gy,sft-frm,amor-sbblky,tr glauc

ARGILLACEOUS CALCILUTITE:m lt gy-m gy,occ wh-v lt gy,sft-frm,amor-sbblky,tr glauc,tr pyr

W 9.5ppg V 48 PV/YP 12/19
Gels 3/5 F 4.0 FC 1.0
Sol 3.6 Sd 0.60 pH 9.1
Cl 35.5k Ca 260 KCl 8.0

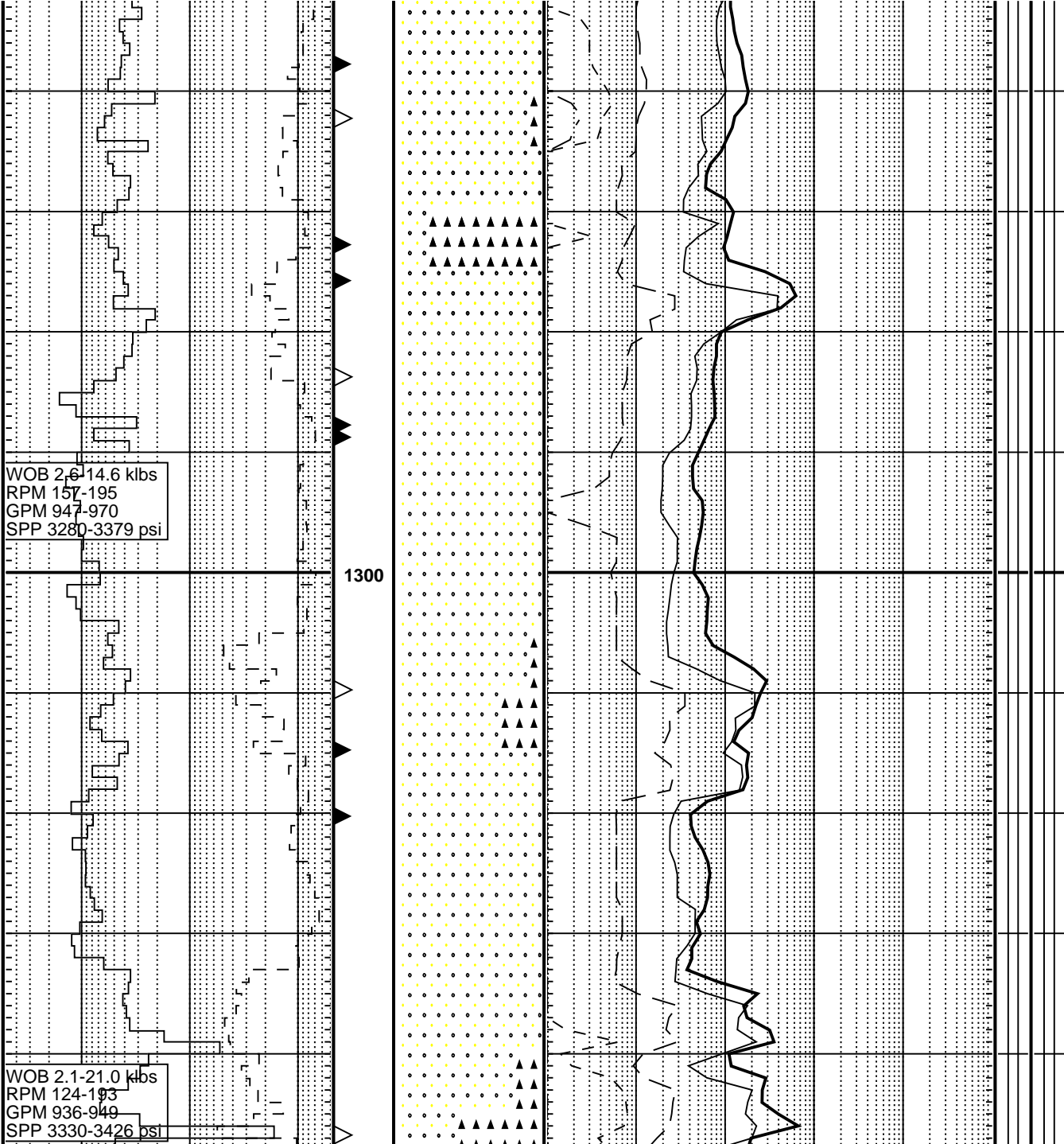


WOB 2.3-21.7 kips
RPM 129-179
GPM 935-973
SPP 3167-3376 psi

WOB 2.3-17.7 kips
RPM 160-177
GPM 959-973
SPP 3295-3358 psi

01/08/02

Survey @ 1169.99m Dev 0.47deg Azi:231.26deg TVD 1169.96m	
ARGILLACEOUS CALCILUTITE:m gy-m dk gy,brnsh gy-olv gy,occ wh-v lt gy,sft-frm,amor-sbblky,r glauc pel,tr dissem & nod pyr,tr Foram	
SANDSTONE:clr-trnsl,lse-disseg,f-v crs,sbang-rndd, sbelong-sbsphr,p srt,p-fr vis por,n shw	
FLC @ 1186m (static)	
CLAYSTONE:v lt gy-lt olv gy,pl yelsh brn,wh,sft,amor- sbblky,com sid stn,min gn & dk gn m-crs gr glauc,r f qtz gr,t dissem pyr	
SANDSTONE:pred trnsl,occ clr qtz gr,lse,f-v crs,pred m-crs sbrndd,occ sbang,sbsphr,p-mod srt,r dissem & nod pyr,tr pyr cmt,tr glauc pel,p-fr vis por,n shw	
SILTSTONE:m lt gy-lt gy,lt olv gy,sft,amor-sbblky,com v f qtz gr,tr pyr,tr glauc	
SANDSTONE:pred trnsl,occ clr,lse,f-v crs,pred m,pred sbrndd,occ sbang,sbsphr,p srt,r dissem & nod pyr,tr pyr cmt, tr glauc pel,p vis por,n shw	
SILTSTONE:m lt gy-lt gy,lt olv gy,sft,amor-sbblky,com v f qtz gr,tr pyr,tr glauc	
SANDSTONE:m lt gy-lt gy,clr-trnsl,occ gy qtz gr,lse,com f g hd aggs,f-crs,pred m,sbrndd-sbang,sbsphr,p-mod srt,com arg mtx,sli calc,tr-com mic,tr pyr cmt,tr glauc pel,tr carb mat tr Foram,p vis por,fr inf por,n shw	



WOB 2,614.6 klbs
RPM 157-195
GPM 947-970
SPP 3280-3379 psi

1300

WOB 2.1-21.0 klbs
RPM 124-193
GPM 936-949
SPP 3330-3426 psi

Survey @ 1257.42m
Dev 0.51deg
Azi:245.44deg
TVD 1257.39m

COAL:mod brn,brnsh blk,svvit-vit,brit-frn,blky,ang-sbconch
conch i/p,tr dissemin pyr

FLC @ 1287m (static)

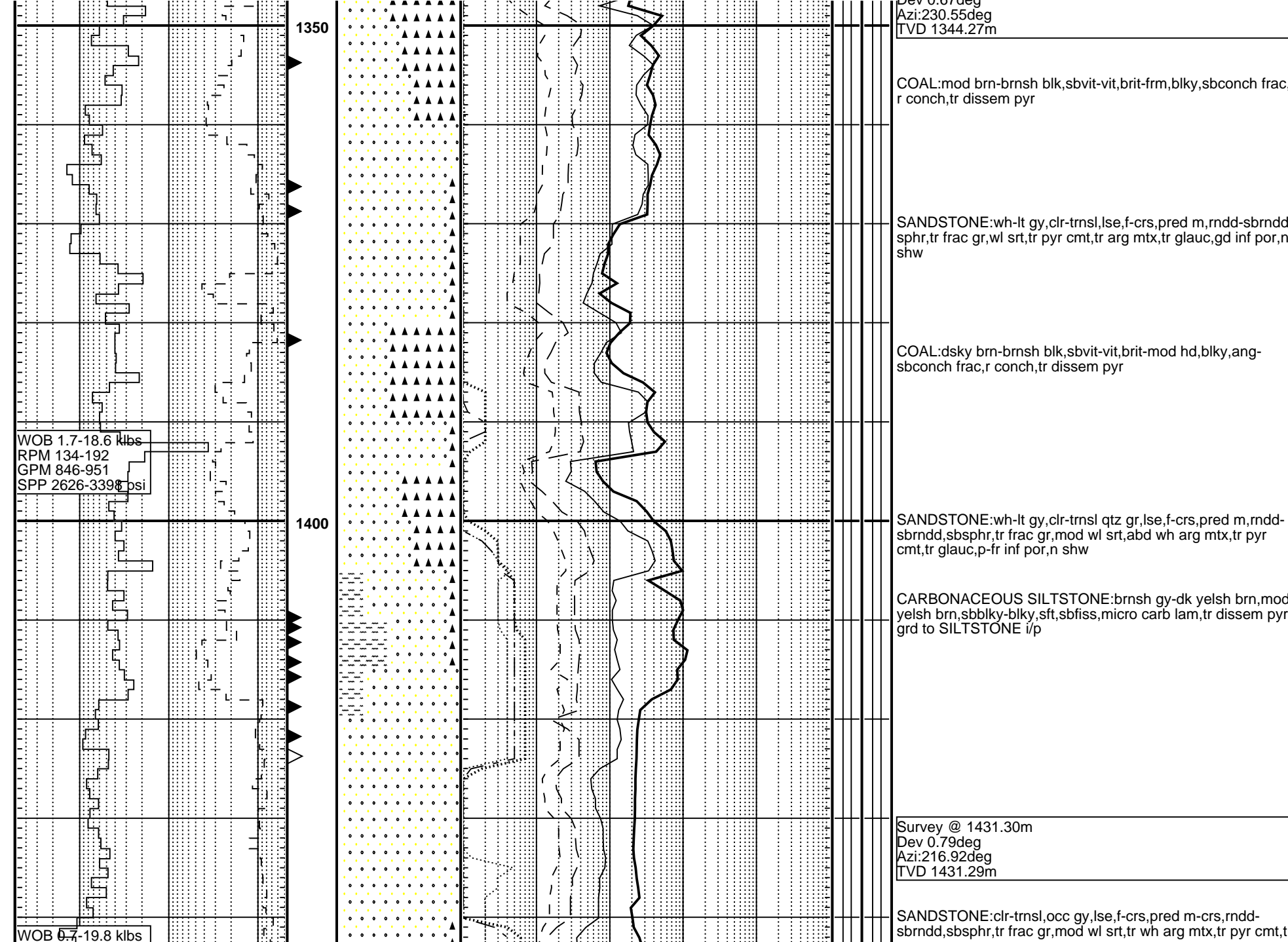
SANDSTONE:m lt gy,clr-trnsl,occ gy qtz gr,lse,m-v crs,pred
v crs,sbrndd,sbsphr,tr frac gr,wl srt,tr pyr cmt,tr mic,tr carb
mat,gd inf por,n shw

COAL:mod brn-brnsh blk,svvit,brit-frn,blky,sbconch frac,r
conch,tr dissemin pyr,g/t CARBONACEOUS SILTSTONE i/p

SANDSTONE:m lt gy,clr-trnsl,occ gy qtz gr,lse,f-v crs,pred
m,sbrndd,sbsphr,tr frac gr,wl srt,tr arg mtx,tr pyr cmt,tr mic,
tr carb mat,gd inf por,n shw

SANDSTONE:wh-lt gy,clr-trnsl,lse,f-crs,pred m,rndd-sbrndd
sphr,tr frac gr,wl srt,tr pyr cmt,tr arg mtx,tr carb mat,tr glauc,
gd inf por,n shw

Survey @ 1344.31m



RPM 164-194
GPM 851-982
SPP 2629-3397 psi

1450

WOB 0.4-18.7klbs
RPM 141-190
GPM 930-979
SPP 3204-3458 psi

1500

glauc,gd inf por,n shw

W 9.70ppg V 53 PV/YP 14/22
Gels 5/7 F 3.4 FC 1.0
Sol 5.2 Sd 0.40 pH 9.3
Cl 35.0k Ca 270 KCl 8.0

SANDSTONE:clr-trnsl,occ gy,lse,f-crs,pred m-crs,r peb,
rddd-sbrnodd,sbsphr,tr frac gr,mod wl srt,tr wh arg mtx,tr pyr
cmt,tr glauc,tr coal,gd inf por,n shw

SILTSTONE:pl-mod yelsh brn,gysh brn,lt-m lt gy,aren i/p,
carb micro lam,carb spks,mod frm,sbbky-blky

SANDSTONE:clr-trnsl qtz gr,occ gy,lse,f-crs,pred m-crs,r
peb,rddd-sbrnodd,sbsphr,tr frac gr,mod wl srt,tr wh arg mtx,tr
pyr cmt,tr glauc,tr mic,gd inf por,n shw

SILTSTONE:mod yelsh brn,lt-pl brn,gysh or pk,pl yelsh or,lt
brnsh gy-brnsh gy,sft-mod frm,occ frm,blky,carb micro lam,
carb spks,tr dissem pyr,tr glauc,tr mic

Survey @ 1517.17m
Dev 1.19deg
Azi:222.49deg
TVD 1517.11m

SANDSTONE:clr-trnsl,occ gy,r or stn,m-crs,lse,sbrnodd,
sbsphr,r frac gr,wl srt,r pyr cmt,tr glauc,fr inf por,n shw

W 9.80ppg V 48 PV/YP 14/25
Gels 5/7 F 3.8 FC 1.0
Sol 5.2 Sd 0.40 pH 9.4

WOB 1.1-21.7 klbs
RPM 146-205
GPM 930-953
SPP 3442-3548 psi

1550

02/08/02
NB4 Reed EHP51HKPRDH
12.25" 3 x 18 lbs
In 1579m
326m/34.4 hrs
3-4-WT-A-E-2-NO-TD

WOB 4.0-53.1 klbs
RPM 54-173
GPM 822-962
SPP 2983-3697 psi

1600

TG 0.18% BS 0.05%

Cl 35.0k Ca 280 KCl 8.0

Survey @ 1551.21m
Dev 1.09deg
Azi:226.63deg
TVD 1551.15m

SANDSTONE:clr-trnsl,tr m gy-m dk gy,lse,f-v crs gr,pred m-crs,sbang,occ sbrndd,sbelong-sbsphr,r frac gr,wl srt,tr pyr cmt & nod pyr,tr glauc,fr-gd inf por,n shw

SILTSTONE:dsky yelsh brn-dsky brn,mod brn-lt brn,gysh blk-blk,mott i/p,pred sft-frm,occ mod hd,sbblky,occ sbfiss,carb micro lam i/p,com carb mat,tr nod & dissem pyr,g/t CARBONACEOUS SILTSTONE

COAL:gysh blk-blk,brnsh blk-olv blk,vit,frm-mod hd,occ hd,blky,sbconch-conch frac,g/t CARBONACEOUS SILTSTONE i/p

FLC @ 1579m (static)

CONGLOMERITIC SANDSTONE:clr-trnsl,lse,f-v crs gr,pred m-crs,occ gran,sbang,occ sbrndd,com frac gr,sbelong-sbsphr,p srt,com hd dol cmt (m gy-m dk gy,gysh or),tr pyr cmt i/p,tr nod pyr,tr glauc pel,p vis por,dol fluor(brt gnsh yel),n shw

SANDSTONE:clr-trnsl qtz gr,com hd aggs,f-v crs,pred m-crs,ang-sbang,com frac gr,sbsphr,p srt,com hd dol cmt,tr pyr cmt,tr glauc,p vis por,dol fluor(brt gnsh yel),n shw

SANDSTONE:clr-trnsl qtz grs,pred clr,lse-hd aggs,m-crs,ang-sbang,sbelong-sbsphr,abd frac gr,com dol cmt,tr pyr cmt,p vis por,dol fluor (lt yelsh gn),n shw

FLC @ 1627m (static)

COAL:dsky brn-blk,sbvit,mod hd,blky,ang-sbconch

WOB 29.8-53.7 klbs
RPM 74-114
GPM 821-876
SPP 2808-3269 psi

1650

777-
777-
777-
777-
777-
777-
7-
7-
7-

Gas Peak 4.67%
BG 0.40%

WOB 34.0-48.8 klbs
RPM 101-116
GPM 820-829
SPP 2857-2946 psi

1700

Gas Peak 3.67%
BG 0.25%

03/08/02

Survey @ 1639.11m
Dev 0.83deg
Azi:214.91deg
TVD 1639.03m

W 9.70ppg V 52 PV/YP 17/27
Gels 5/8 F 3.4 FC 1.0
Sol 4.9 Sd 0.25 pH 9.4
Cl 38.0k Ca 200 KCl 8.0

CLAYSTONE:pl yelsh brn-dsky yelsh brn,occ lt brn,sft,amor
sbbiky,g/t SILTSTONE i/p

SANDSTONE:clr-trnsl qtz gr,pred clr,lse,f-crs,pred f-m,
sbang-sbrndd,sbelong-sbsphr,mod-wl srt,tr mic flk,fr inf por,
n shw

COAL:dsky brn-blk,gysh blk,sbvit-vit,frm-mod hd,blky,ang-
sbconch

SANDSTONE:clr-trnsl qtz gr,lse,f-v crs,pred m-crs,sbang-
sbrndd,sbelong-sbsphr,p-mod srt,tr pyr nod,fr inf por,n shw

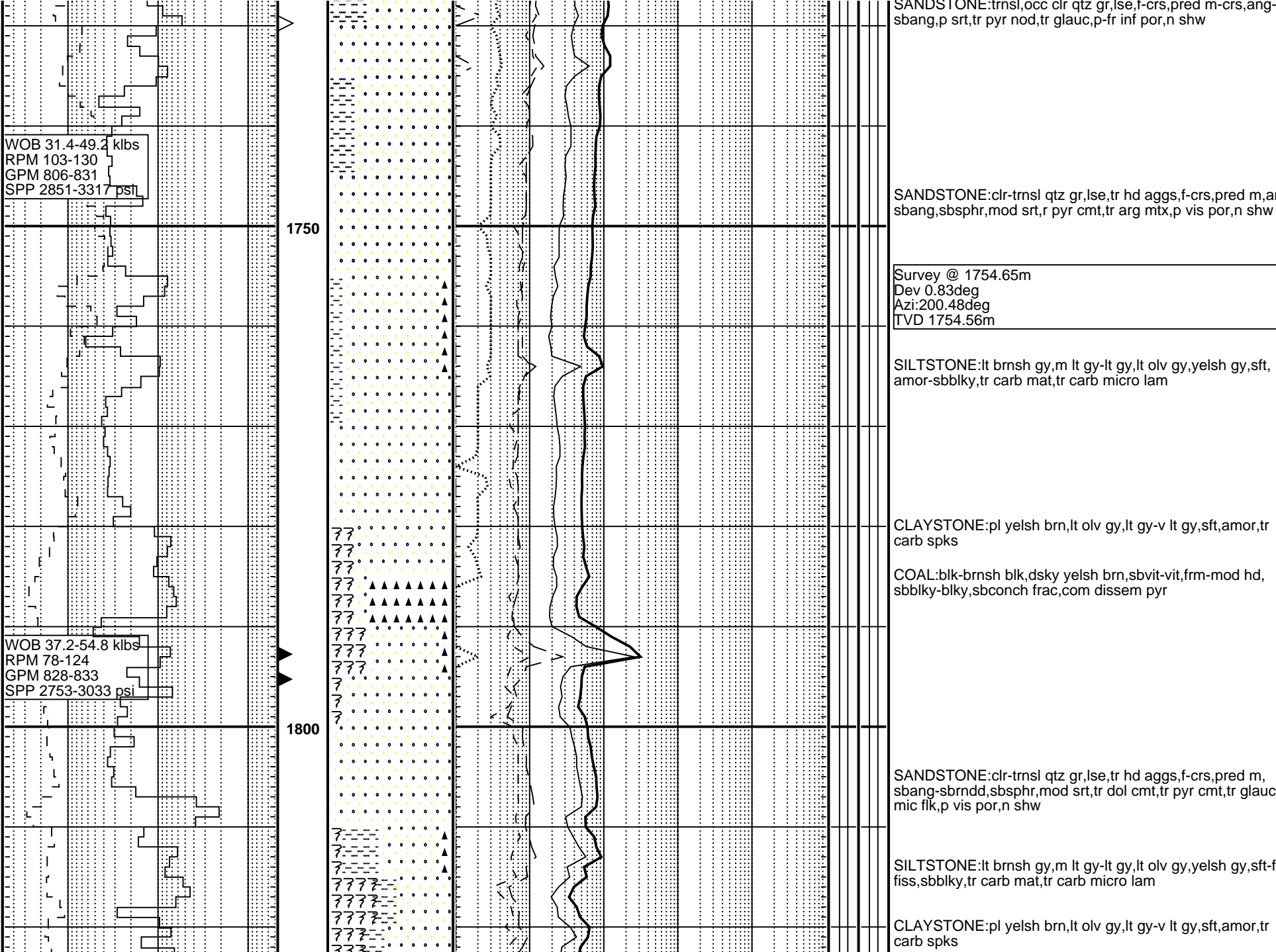
SILTSTONE:dsky brn-dsky yelsh brn,occ mod yelsh brn,occ
m gy,sft-mod hd,amor-sbbiky,occ sbfiss,r carb lam,tr carb
spks,g/t CLAYSTONE i/p

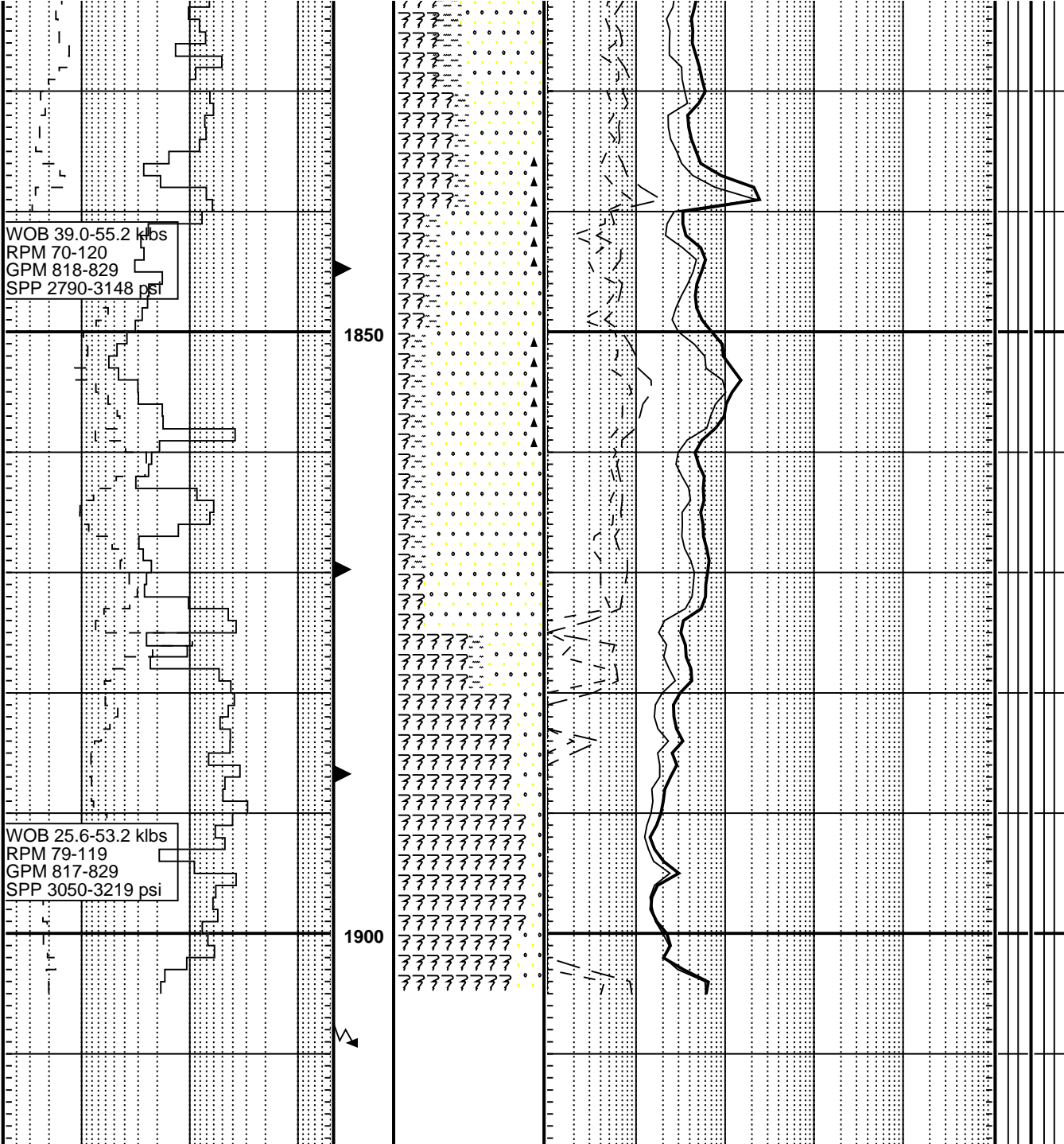
COAL:dsky brn-blk,gysh blk,sbvit-vit,frm-mod hd,blky,ang-
sbconch,tr dissemin pyr

W 9.8ppg V 56 PV/YP 17/26
Gels 5/7 F 3.8 FC 1.0
Sol 5.0 Sd 0.70 pH 9.3
Cl 37.5k Ca 180 KCl 8.0

SILTSTONE:dsky brn-dsky yelsh brn,occ mod yelsh brn,occ
m gy,pred sft-frm,occ mod hd,amor-sbbiky,occ sbfiss,r-mnr
carb lam,mnr carb spks,tr dissemin pyr,grd to
CARBONACEOUS SILTSTONE i/p

Survey @ 1725.47m
Dev 0.90deg
Azi:209.82deg
TVD 1725.38m





Survey @ 1834.52m
Dev 0.89deg
Azi:216.64deg
TVD 1834.52m

SANDSTONE:pred clr-trnsl qtz gr,r opq (m lt gy-m gy),lse,m
crs gr,ang-sbang,sbelong-sbsphr,mnr frac,mod srt,r pyr cmt
tr pyr nod,tr glauc,gd inf por,n shw

FLC @ 1846m (static)

COAL:blk-brnsh blk,olv blk,sbvlt-vit,frm-mod hd,blk,y
sbconch frac,tr dissemin pyr

SILTSTONE:lt brnsh gy,lt brn-mod brn,m lt gy-lt gy,lt olv gy,
sft-frm,sbblk,y,sbfiss,tr carb mat/spks,tr carb micro lam,tr
dissemin pyr

Survey @ 1869.06m
Dev 0.98deg
Azi:215.87deg
TVD 1868.96m

SANDSTONE:clr-trnsl qtz grs,lse,f-crs,pred m-crs,ang-
sbrndd,sbelong-sbsphr,mod srt,abd frac grs,tr pyr cmt,fr inf
por,n shw

W 9.8ppg V 61 PV/YP 20/33
Gels 7/9 F 3.4 FC 1.0
Sol 6.1 Sd 0.50 pH 9.1
Cl 36.5k Ca 180 KCl 8.0

CLAYSTONE:lt gy-m gy,occ brnsh gy,occ gysh brn-dsky
brn,sft-frm,amor-sbblk,y,tr pyr,tr carb spks,g/t SILTSTONE i/
p

Survey @ 1905.00m
Dev 0.98deg
Azi:215.87deg
TVD 1904.89m

Drill to 1905m MDRT TD @ 21:00 03 August 2002

Run E-Logs
Loggers TD 1909.5m MDRT
Run#1: DUAL-AXIS DENSITY-PEX-HALS-LEHQ
Run#2: FMI-DSI-HNGS-GR-LEHQ
Run#3: MDT-GR-LEHQ

RATE OF PENETRATION		CUTTINGS LITHOLOGY	CHROMATOGRAPH & TOTAL GAS						DIRECT FLUORESCENCE	CUT FLUORESCENCE	REMARKS
WOB (klbs)			Methane								
ROP (m/hr)			Ethane								
			Propane								
			I-Butanes								
			N-Butanes								
			Pentanes (%)								
		Total Gas (%) 1%TG = 50Units									
0	1		0.001	0.01	0.1	1	10	100			
10	10										
20	10										
30	10										
40	100										
50	500										
60											