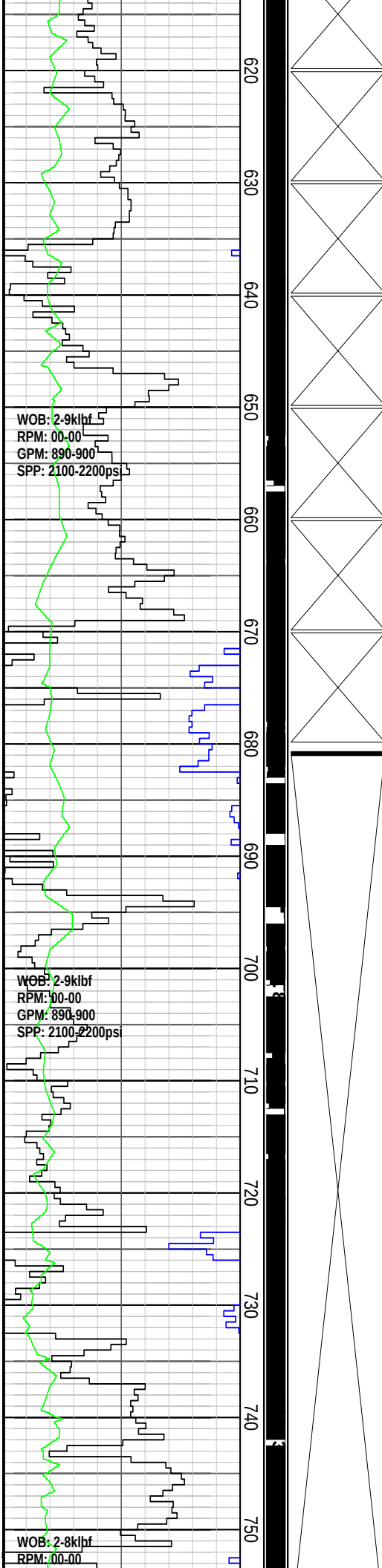




Created : 11/Jan/2009 8:04:54 PM

Drilling Rate		Cuttings Lithology	Visual Inferred Porosity	Oil Show	Gas Data		Chromatograph Data		Calcimetry	Interpreted Lithology	Lithology Description
ROP (m/hr)	MD meters				Gas Hydrocarbon Avg %	Methane ppm					
20 40 60 80 100 120 140 160 180 200	20 40 60 80 100 120 140 160 180 200				0.1 1 10 100 Resistivity Shallow ohm.m 0.1 1000 Resistivity Deep ohm.m	1 Ethane ppm 100000 1 Propane ppm 100000 1 iso-Butane ppm 100000 1 n-Butane ppm 100000 1 iso-Pentane ppm 100000 1 n-Pentane ppm 100000					
API											
RR1 Smith XR+C 914 mm (36") Jets: 4x18, (HO) 4x18 Depth In: 526.4 mMDRT Depth Out: 572.9 mMDRT Drilled: 46.5 m in 1.1 hrs Grade: 1-1-WT-A-E-IN-NO-TD		520	530	540.0	550	560.0	570	580.0	590	600	610
WOB: 2-14klbf RPM: 80-155 GPM: 650-1300 SPP: 900-3550psi											
NB2 Smith MD619HPX 406 mm (16") Jets: 9x13 Depth In: 572.9 mMDRT Depth Out: 1741.7 mMDRT Drilled: 1168.8 m in 16.1 hrs Grade: 1-3-CT-T-X-I-NO-FD											
WOB: 2-9klbf RPM: 00-00 GPM: 890-900 SPP: 2100-2200psi											
Survey @ 525.37 mMDRT Incl: 0.00deg Azi: 0.00deg TVD: 525.37 m											
Survey @ 554.25 mMDRT Incl: 0.49 deg Azi: 285.86 deg TVD: 554.25 m											
Survey @ 607.72 mMDRT Incl: 1.25 deg Azi: 215.61 deg TVD: 607.71 m											
Elver-1 spudded @ 17:40 hrs on 20th December 2008											
All measurements in meters referenced from rotary table (RT) RT - AHD = 21.5 m Water Depth = 504.9 m RT - Seabed = 526.4 m											
Drill 914mm (36") hole w/ seawater and hi-vis sweeps.Returns to seabed											
Set 762mm (30") casing @ 572.9 mMDRT											
Drill 914mm (36") hole to 572.9 mMDRT											
Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.											



Survey @ 636.20 mMDRT
Incl: 2.69 deg
Azi: 198.79 deg
TVD: 636.18 m

Survey @ 654.71 mMDRT
Incl: 3.59 deg
Azi: 194.36 deg
TVD: 654.66 m

Survey @ 665.02 mMDRT
Incl: 4.20 deg
Azi: 195.11 deg
TVD: 664.95 m

Survey @ 683.35 mMDRT
Incl: 5.50 deg
Azi: 193.27 deg
TVD: 683.21 m

Survey @ 693.33 mMDRT
Incl: 6.32 deg
Azi: 191.54 deg
TVD: 693.14 m

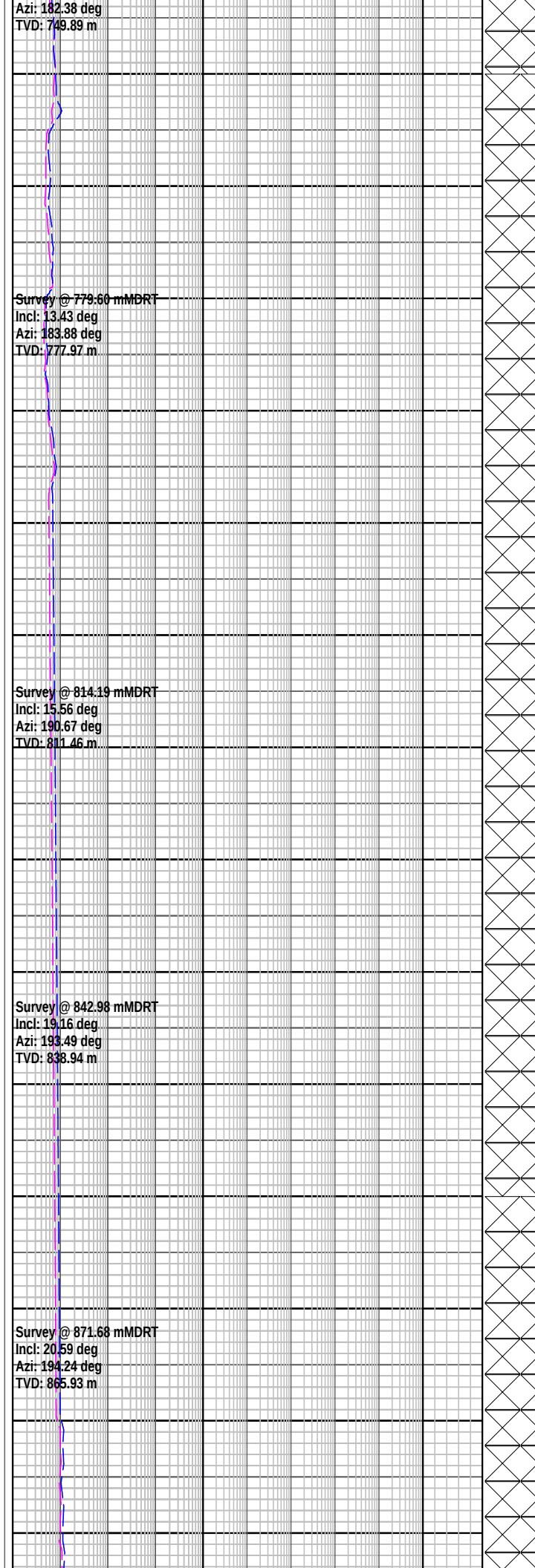
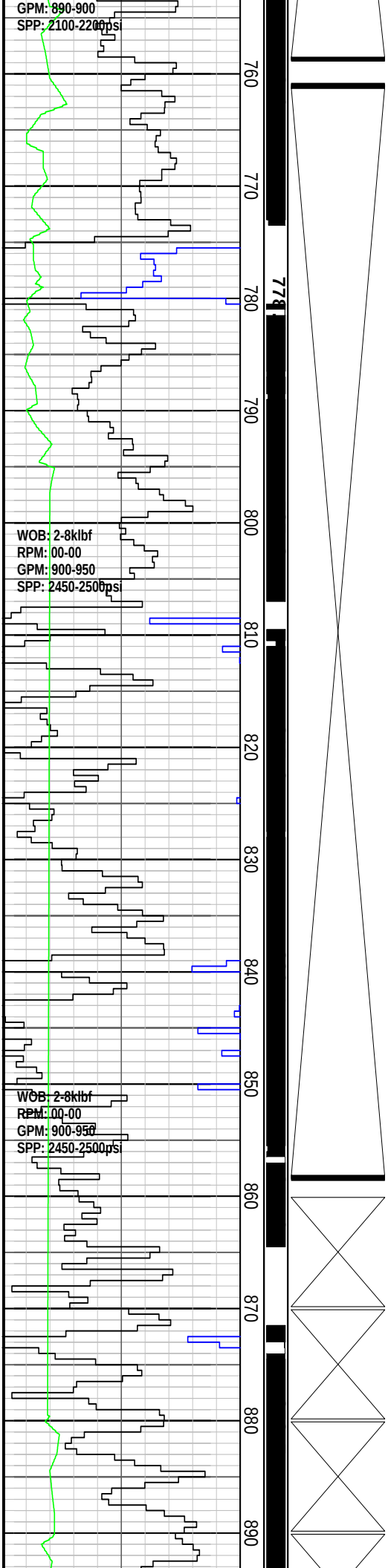
Survey @ 722.44 mMDRT
Incl: 8.89 deg
Azi: 187.05 deg
TVD: 721.99 m

Survey @ 750.81 mMDRT
Incl: 11.95 deg

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

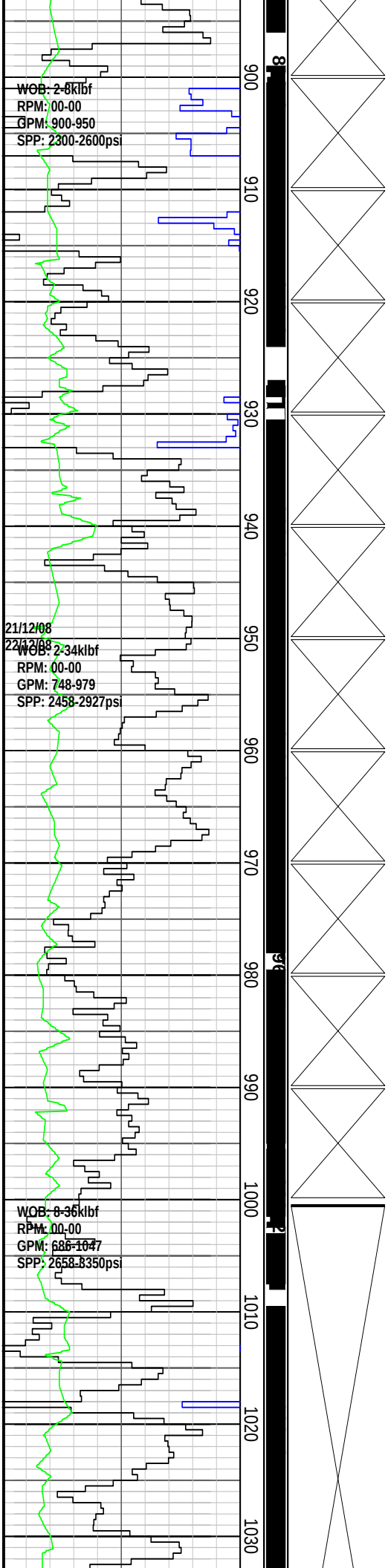
Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.



seabed.

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.



Survey @ 895.45 mMDRT
Incl: 22.54 deg
Azi: 192.98 deg
TVD: 888.03 m

Survey @ 924.90 mMDRT
Incl: 24.17 deg
Azi: 197.67 deg
TVD: 915.07 m

Survey @ 952.68 mMDRT
Incl: 25.43 deg
Azi: 194.75 deg
TVD: 940.29 m

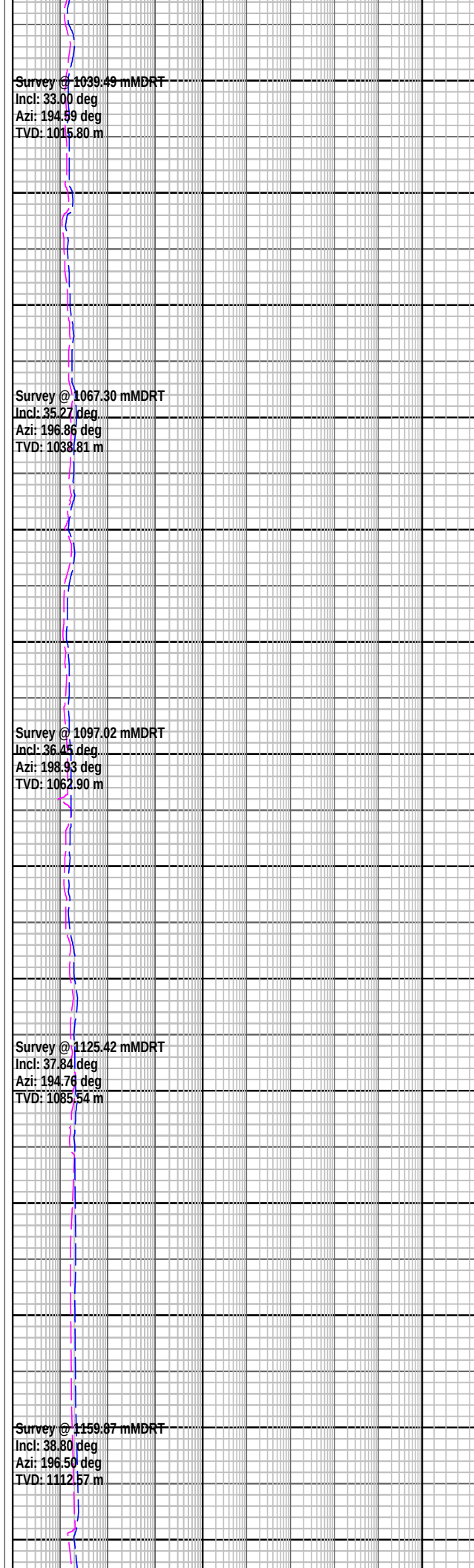
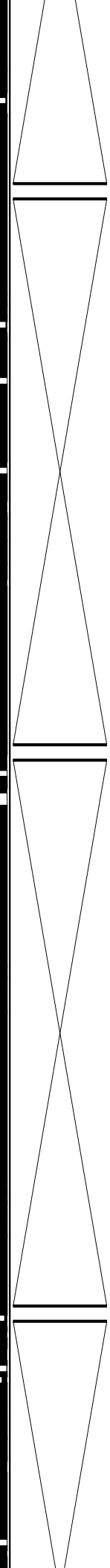
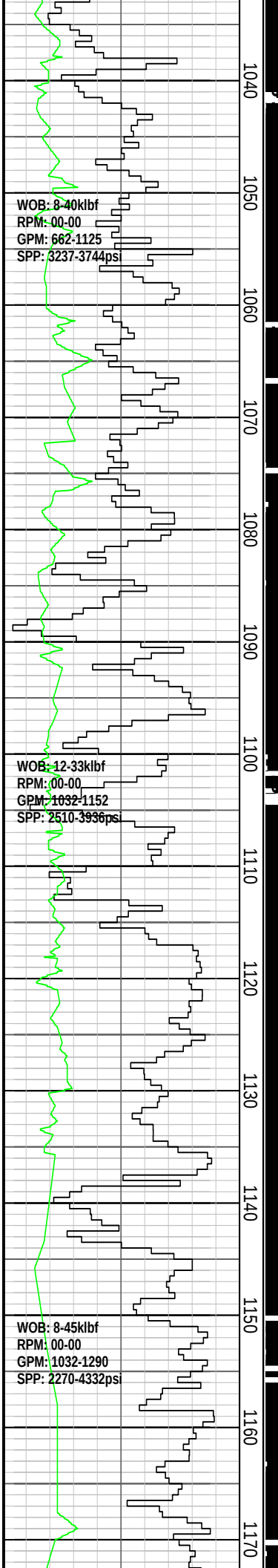
Survey @ 981.86 mMDRT
Incl: 28.33 deg
Azi: 192.25 deg
TVD: 966.31 m

Survey @ 1009.78 mMDRT
Incl: 30.89 deg
Azi: 192.87 deg
TVD: 990.59 m

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

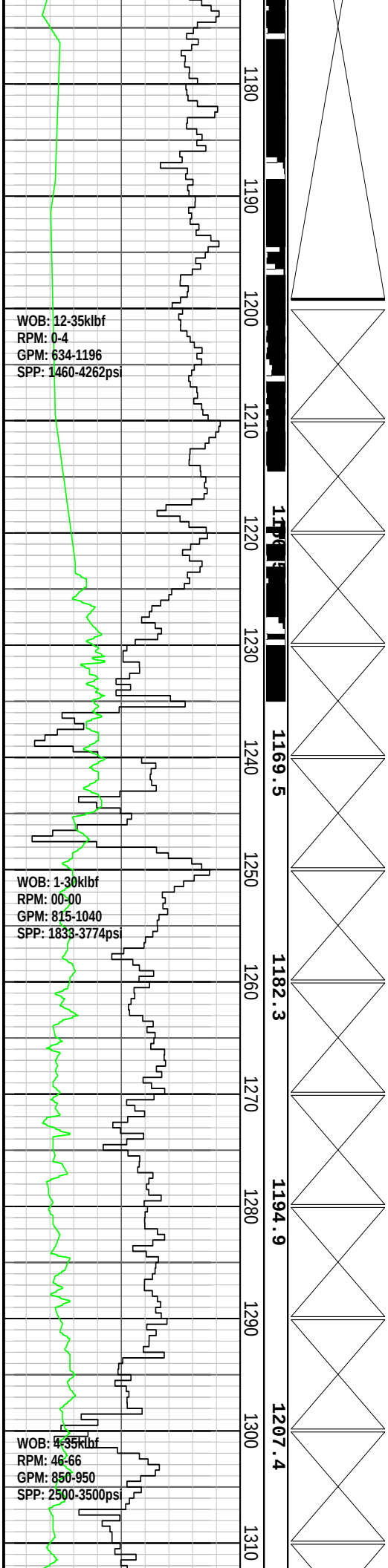
Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.



Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.



Survey @ 1188.66 mMDRT
Incl: 42.22 deg
Azi: 197.27 deg
TVD: 1134.46 m

Survey @ 1217.27 mMDRT
Incl: 48.00 deg
Azi: 197.87 deg
TVD: 1154.64 m

Survey @ 1238.31 mMDRT
Incl: 50.18 deg
Azi: 196.12 deg
TVD: 1168.42 m

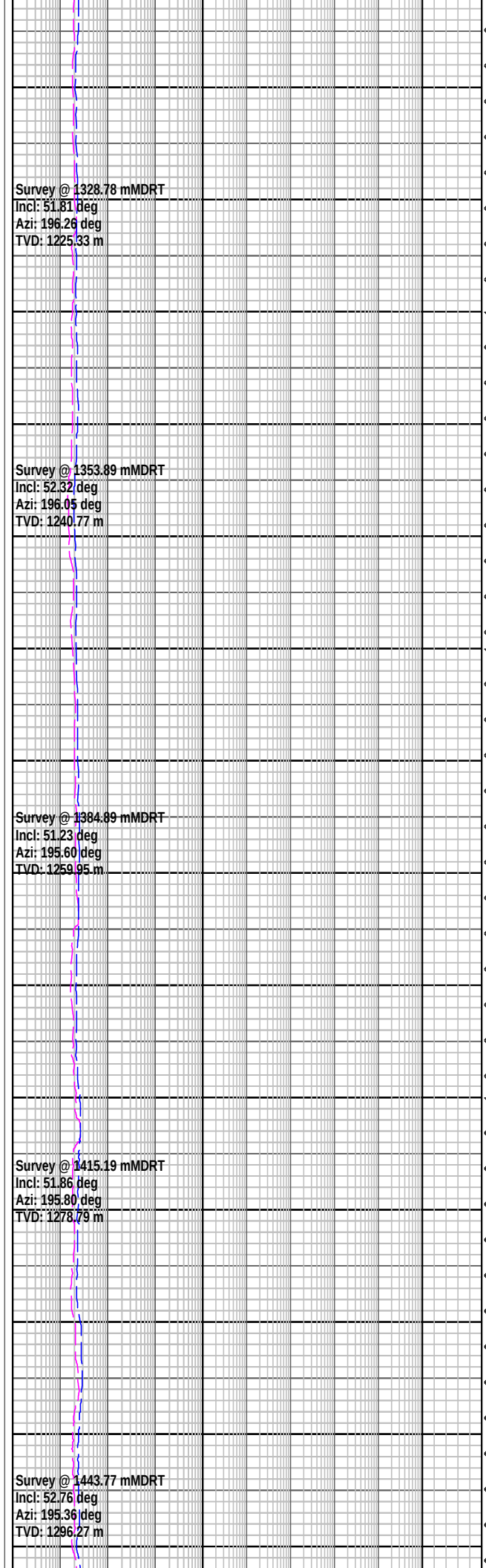
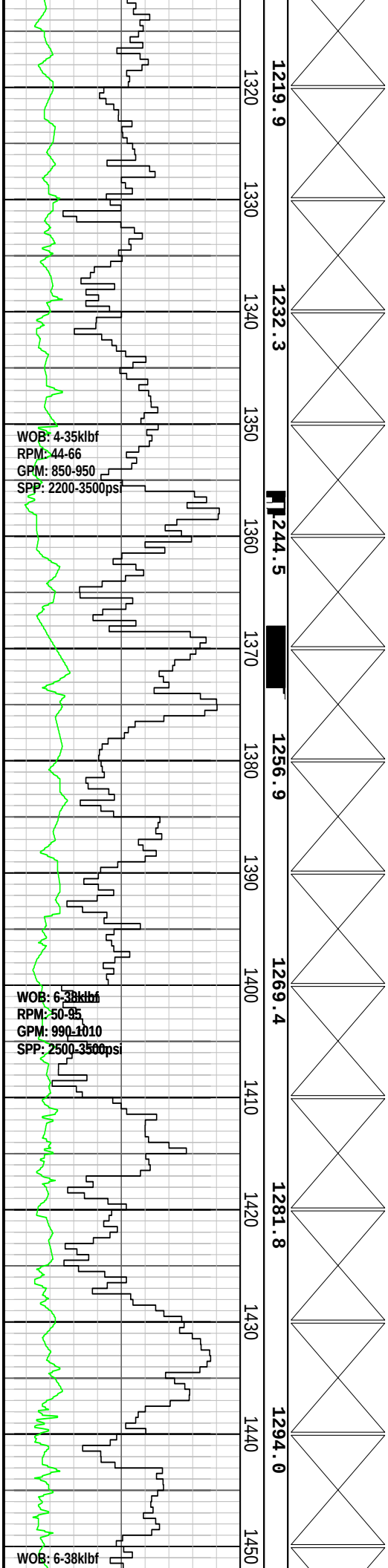
Survey @ 1270.80 mMDRT
Incl: 50.76 deg
Azi: 196.28 deg
TVD: 1189.10 m

Survey @ 1299.61 mMDRT
Incl: 51.35 deg
Azi: 196.03 deg
TVD: 1207.21 m

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

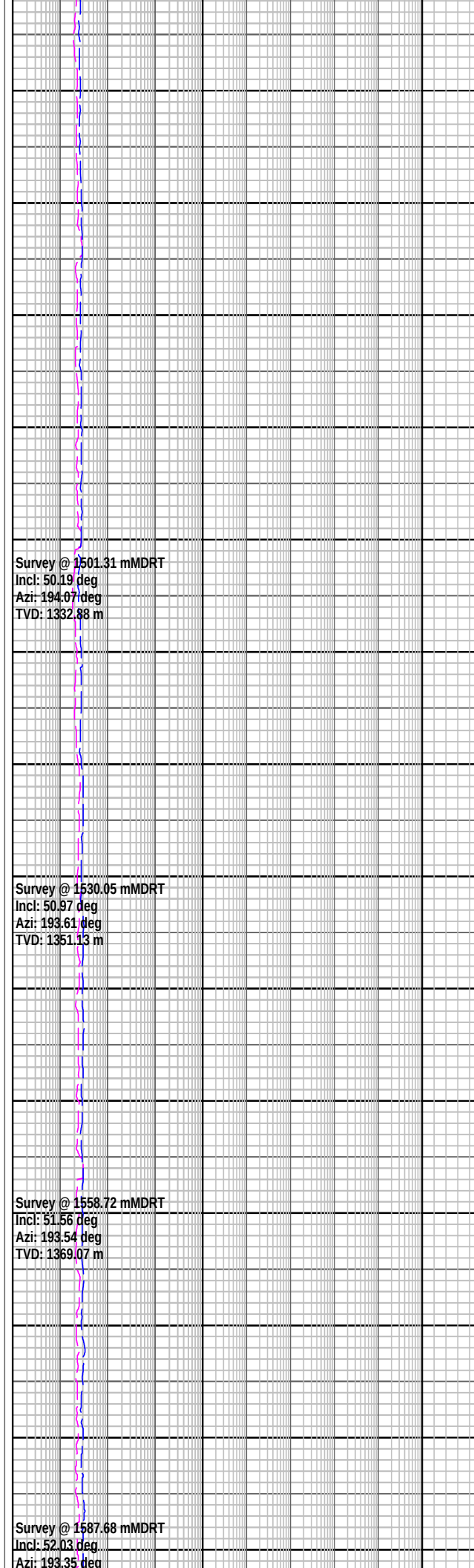
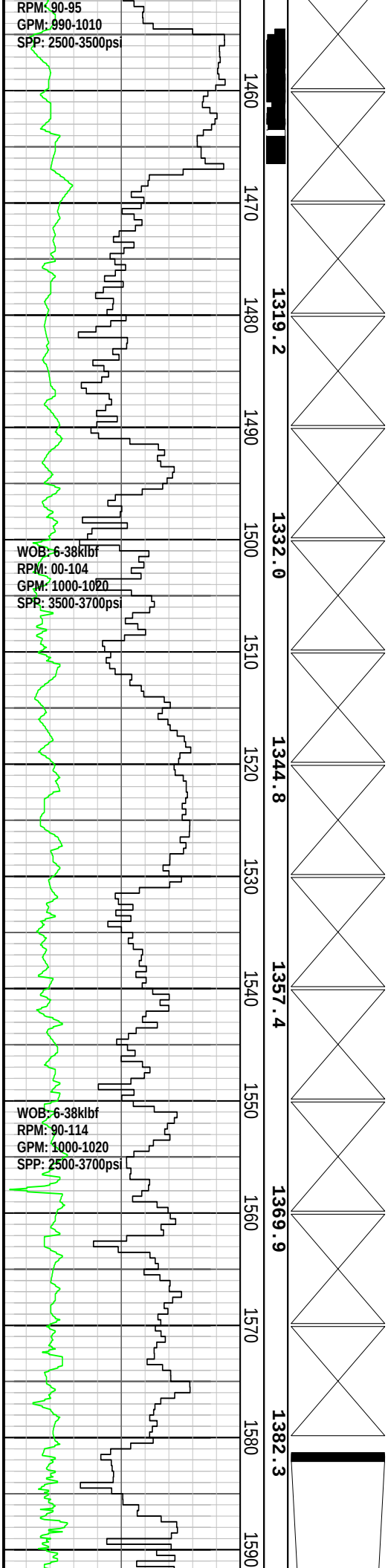
Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.



Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Drill 406mm (16") hole w/ seawater



and hi-vis gel sweeps. Returns to seabed.

Survey @ 1472.48 mMDRT
Incl: 49.48 deg
Azi: 194.11 deg
TVD: 1314.29 m

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

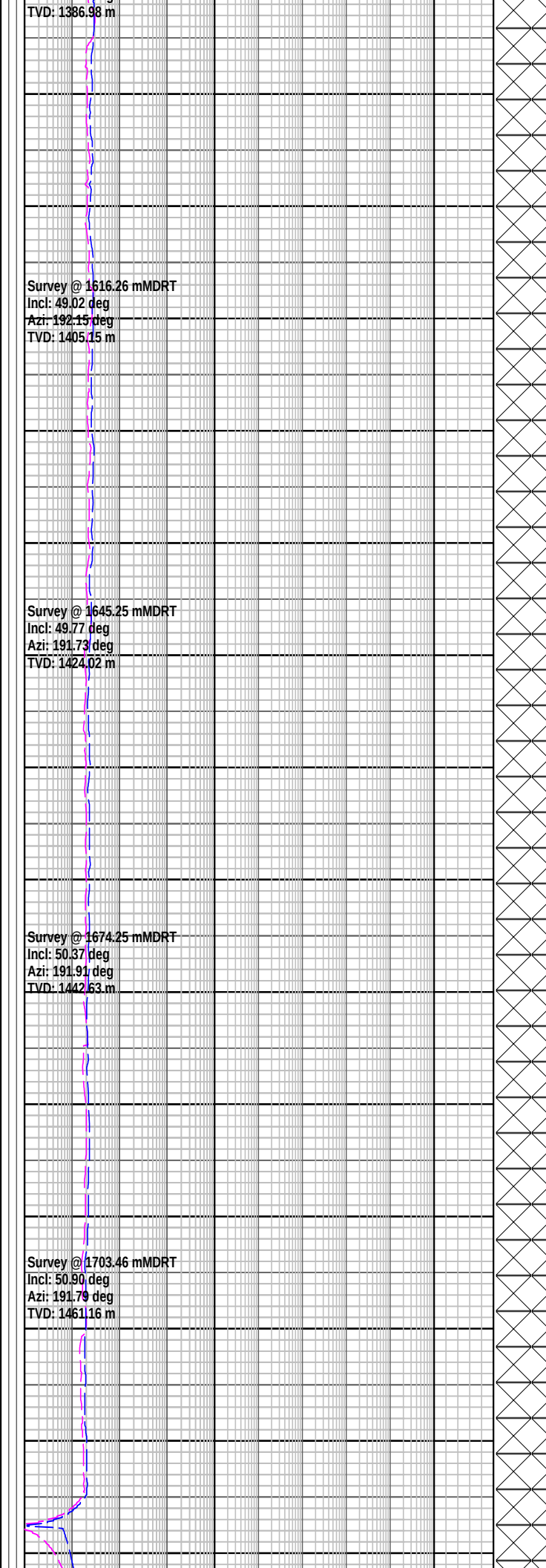
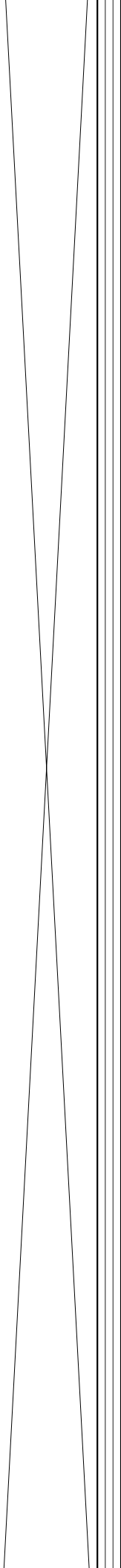
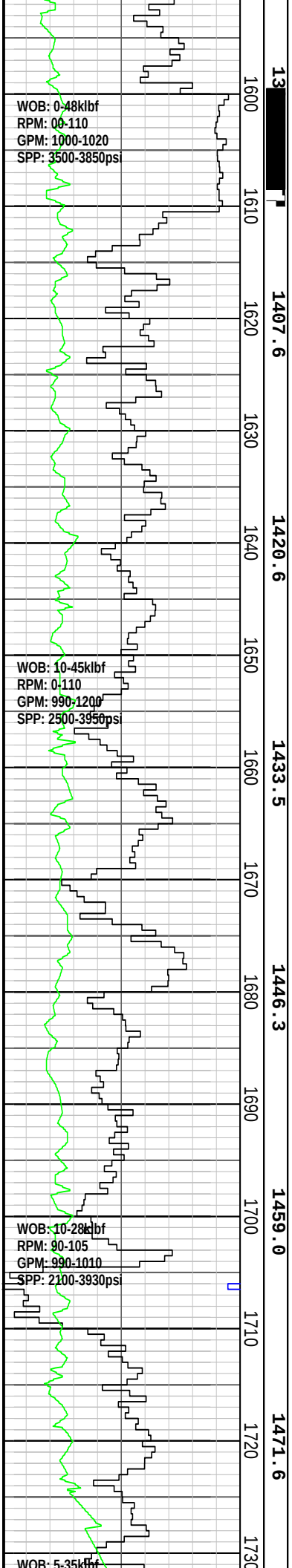
Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Survey @ 1501.31 mMDRT
Incl: 50.19 deg
Azi: 194.07 deg
TVD: 1332.88 m

Survey @ 1530.05 mMDRT
Incl: 50.97 deg
Azi: 193.61 deg
TVD: 1351.13 m

Survey @ 1558.72 mMDRT
Incl: 51.56 deg
Azi: 193.54 deg
TVD: 1369.07 m

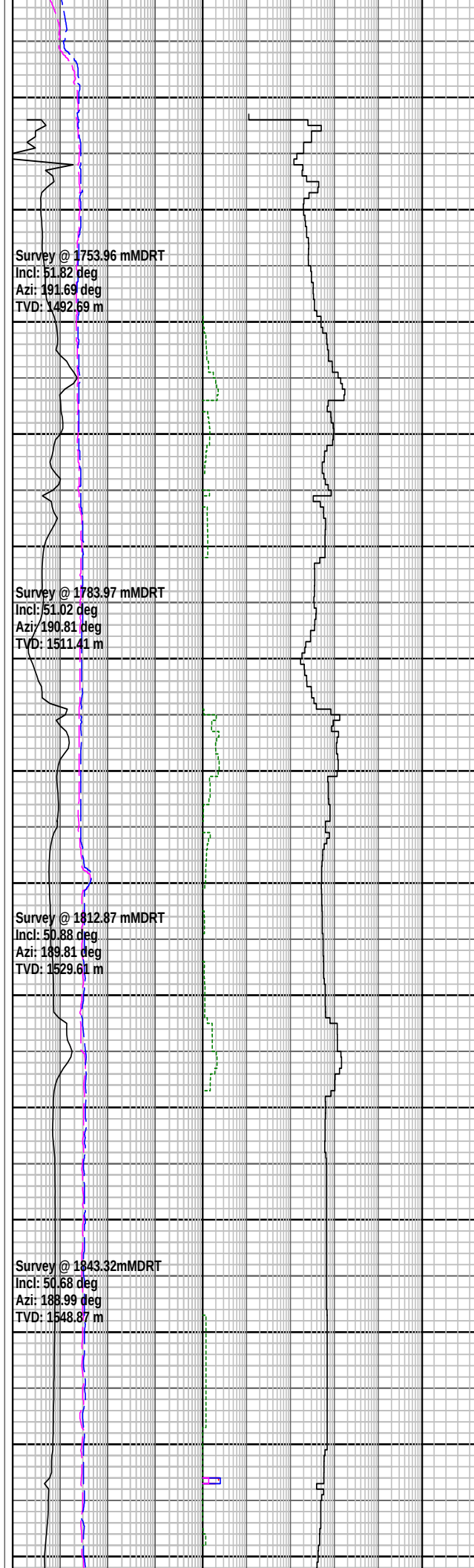
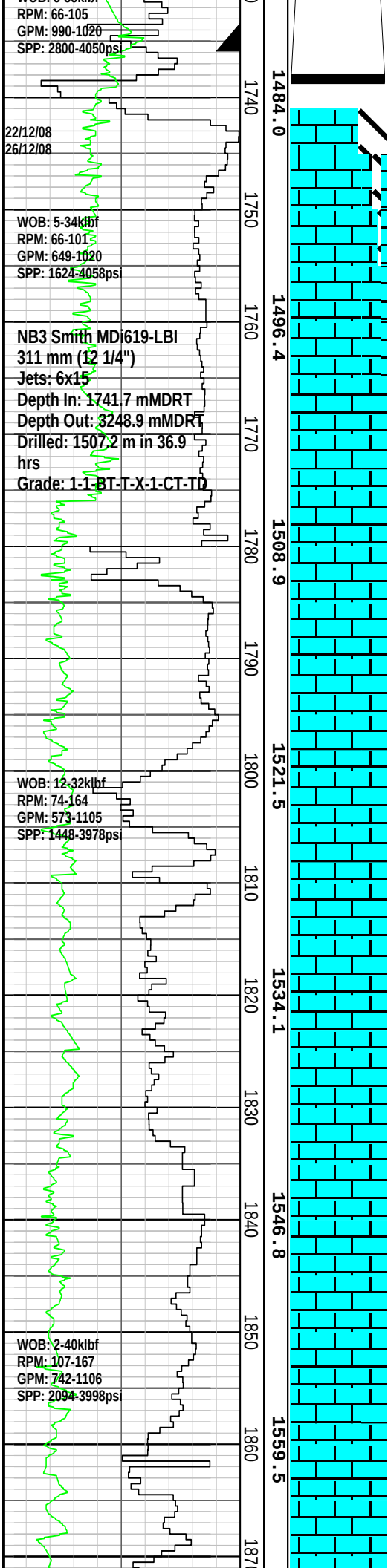
Survey @ 1587.68 mMDRT
Incl: 52.03 deg
Azi: 193.35 deg



Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.

Drill 406mm (16") hole w/ seawater and hi-vis gel sweeps. Returns to seabed.



340mm (13 3/8") casing shoe @
1735.9 mMDRT

Reached 406mm (16") Section TD @
1741.7m at 22:50 hrs on 22/12/2008

CALCARENITE: v lt gy-lt
gnsh gy, off wh-pl yl or, tr
med-crs sbang qtz grs, slt i/p
grd to CLSLT, tr v f glauc gr,
frm-mod hd, p vis por, no
hydc fluor

DOLOMITE: lt brn, dk yelsh
brn, xln, v calc, grd to DOL
LST, mod hd-hd, brit

CALCILUTITE: v lt gy-lt gnsh
gy, off wh, slty i/p, grd to
CLSLT, tr v f glauc, tr lt brn
hd dol frags, sft-frm,
amor-sbblky, sbfiss i/p

MW: 1.15	FV: 65
PV: 15	YP: 30
pH: 11.3	CK: 5.9
GELS: 5/7/9	CL: 48000

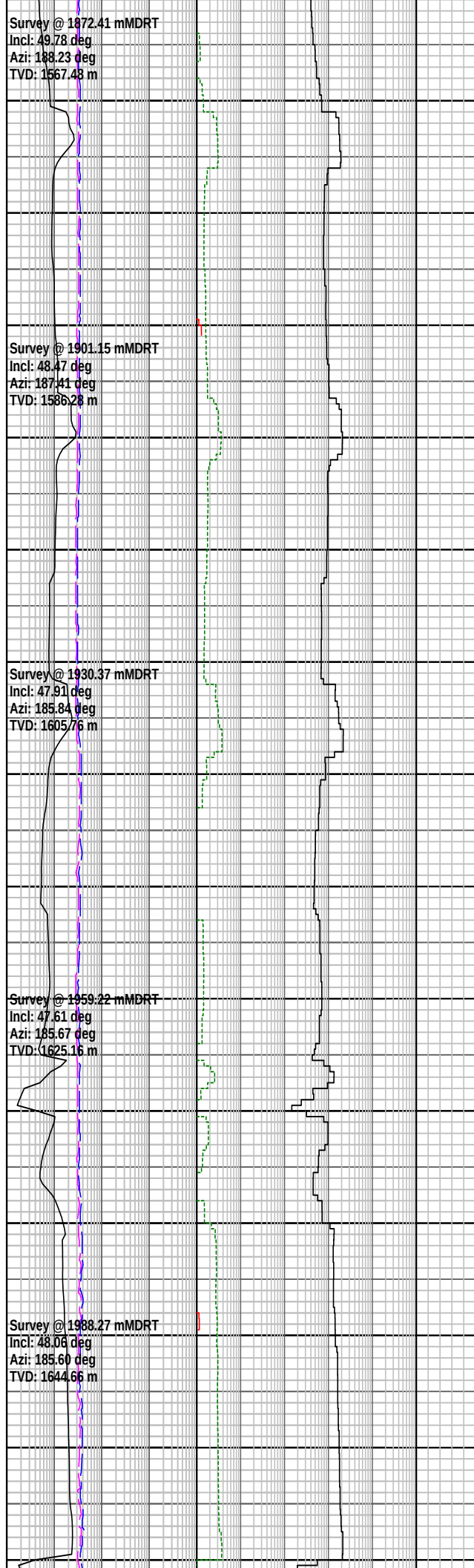
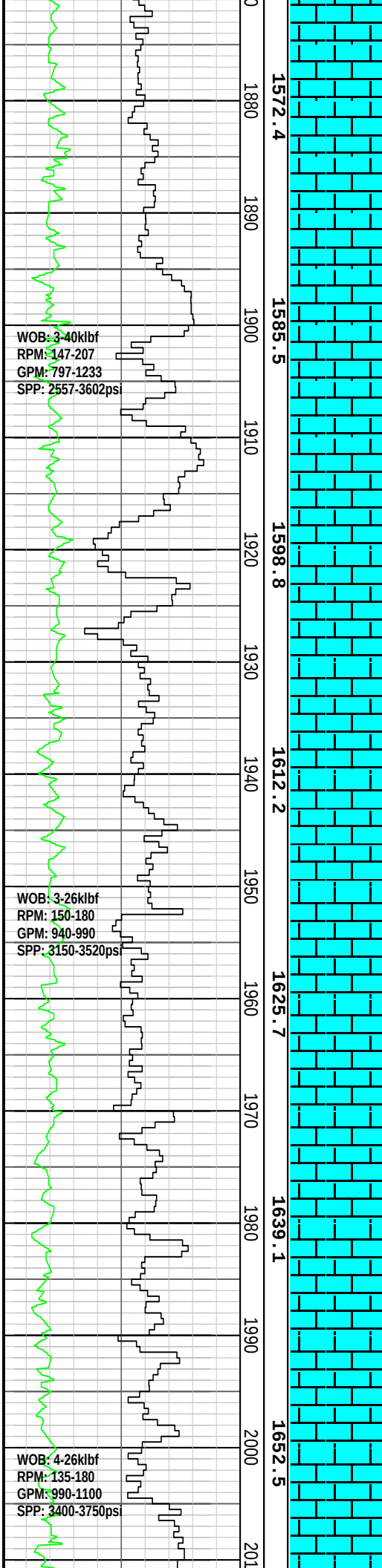
CALCISILTITE: med lt gy-lt
olv gy, lt gnsh gy, argl i/p grd
to CLCLT, tr v f sd grs, tr v f
glauc, tr micmic, sft-frm,
sbfiss-sbblky

CALCARENITE: v lt gy-lt
gnsh gy, off wh-pl yel org, tr
f-crs sbang qtz grs, slty i/p
grd to CLSLT, tr v f glauc grs,
frm-mod hd, p vis por, no
hydc fluor

CALCILUTITE: v lt gy-lt gnsh
gy, off wh, slty i/p grd to
CLSLT, tr v f glauc grs, tr
forams, tr oo, sft-frm,
amor-sbblky

CALCISILTITE: med lt gy-lt
olv gy, lt gnsh gy, argl i/p grd
to CLCLT, tr v f sd grs, tr v f
glauc, tr micmic, sft-frm,
sbfiss-sbblky

CALCILUTITE: v lt gy-lt gnsh



CALCILUTITE: v lt gy-lt gnsh gy, off wh, slty i/p grd to CLSLT, tr v f glauc grs, tr forams, tr oo, sft-frm, amor-sbblky

CALCARENITE: v lt gy-lt gnsh gy, off wh-pl yel org, tr f-crs sbang qtz grs, slty i/p grd to CLSLT, tr v f glauc grs, frm-mod hd, p vis por, no hydc fluor

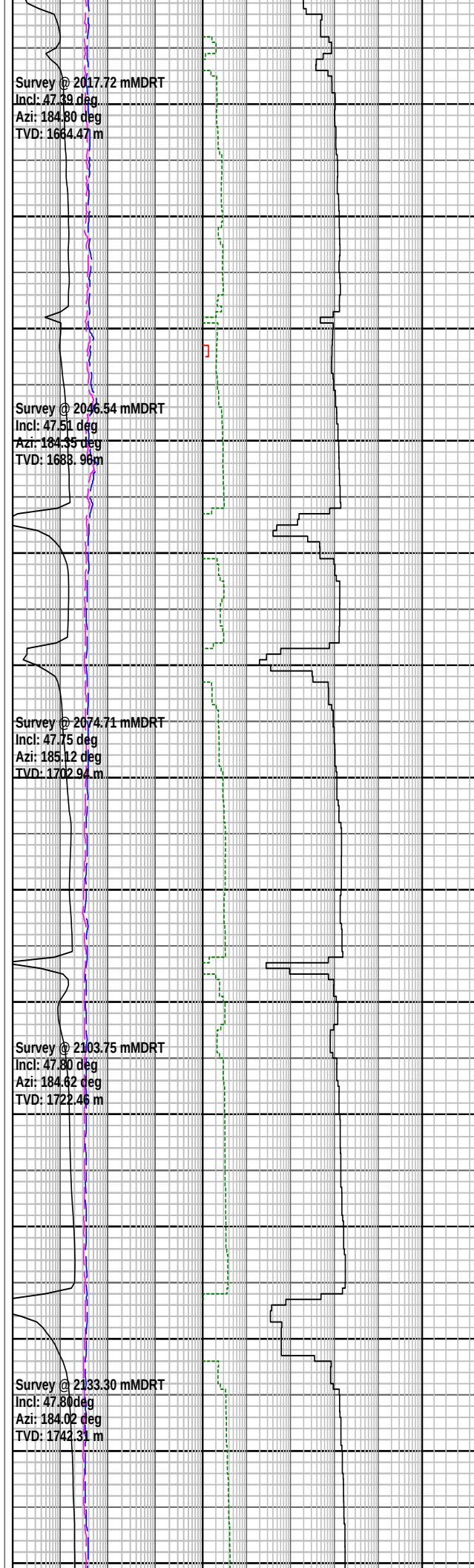
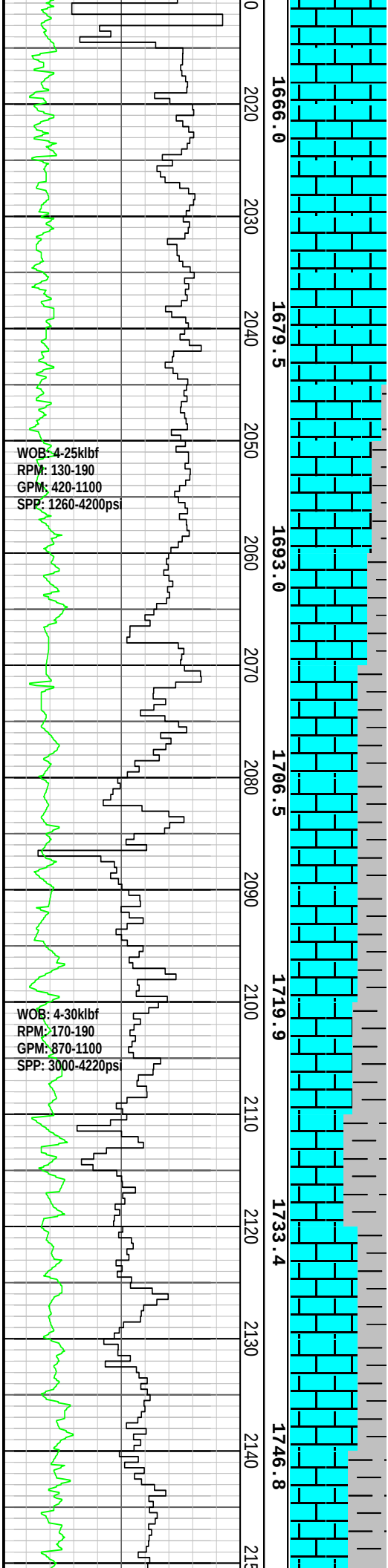
CALCISILTITE: med lt gy-lt olv gy, lt gnsh gy, argl i/p grd to CLCLT, tr v f sd grs, tr v f glauc, tr micmic, sft-frm, sbfiss-sbblky

CALCARENITE: v lt gy-lt gnsh gy, off wh-pl yel org, tr f-crs sbang qtz grs, slty i/p grd to CLSLT, tr v f glauc grs, frm-mod hd, p vis por, no hydc fluor

CALCISILTITE: med lt gy-lt olv gy, lt gnsh gy, argl i/p grd to CLCLT, tr v f sd grs, tr v f glauc, tr micmic, sft-frm, sbfiss-sbblky

CALCARENITE: v lt gy-lt gnsh gy, off wh-pl yel org, tr f-crs sbang qtz grs, slty i/p grd to CLSLT, tr v f glauc grs, frm-mod hd, p vis por, no hydc fluor

CALCILUTITE: v lt gy-lt gnsh gy, off wh, slty i/p grd to CLSLT, tr v f glauc grs, tr forams, tr oo, sft-frm, amor-sbblky



CALCARENITE: v lt gy-lt gnsn gy, off wh-pl yel org, tr f-crs sbang qtz grs, slty i/p grd to CLSLT, tr v f glauc grs, frm-mod hd, p vis por, no hydc fluor

CALCILUTITE: v lt gy-lt gnsn gy, off wh, slty i/p grd to CLSLT, tr v f glauc grs, tr forams, tr oo, sft-frm, amor-sbblky

MW: 1.15	FV: 69
PV:15	YP: 34
pH: 11.2	CK: 6.0
GELS: 8/9/11	CL:48000

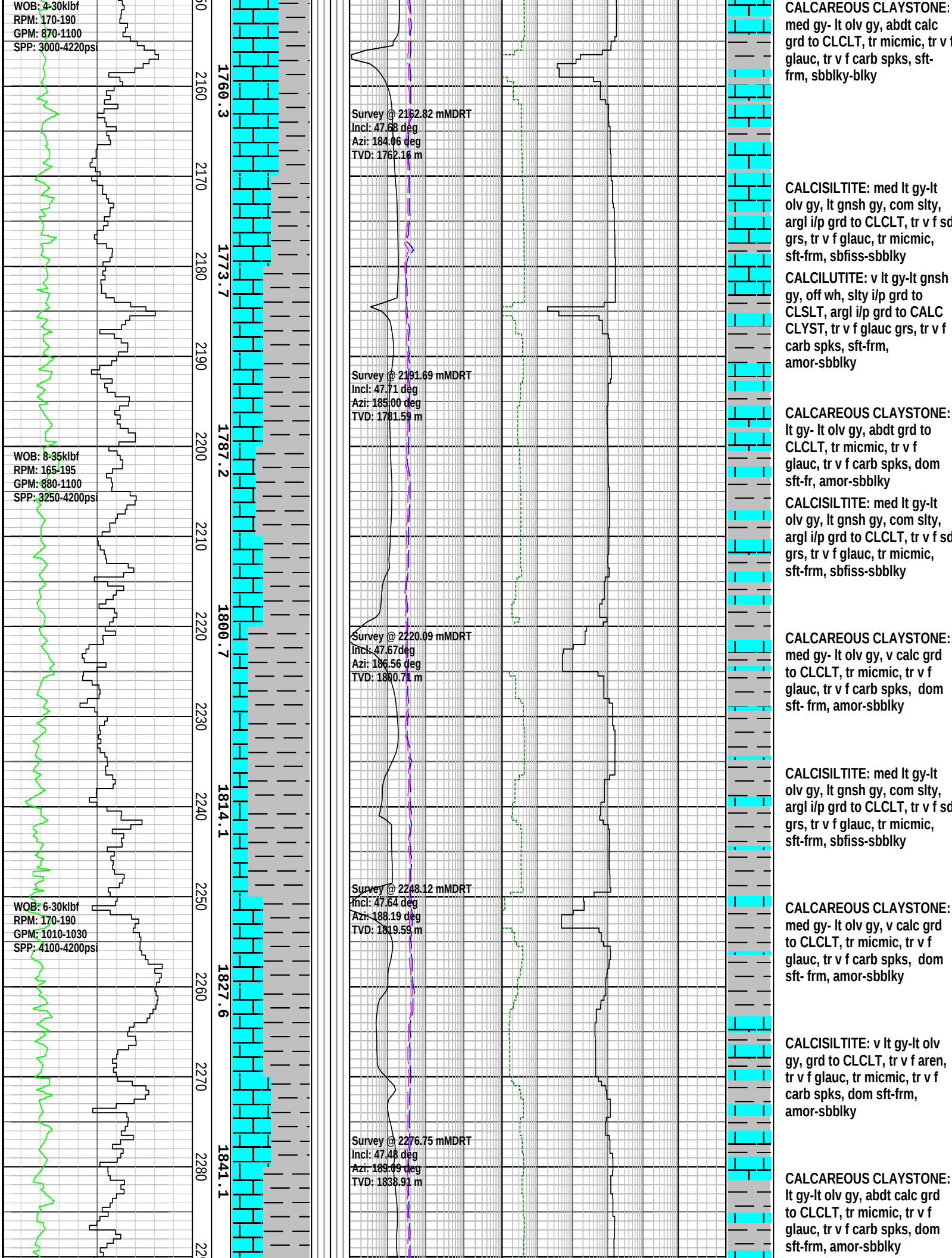
CALCAREOUS CLAYSTONE: med gy- lt olv gy, v calc grd to CLCLT, tr micmic, tr v f glauc, slty, sft-dom frm, sbblky-blky

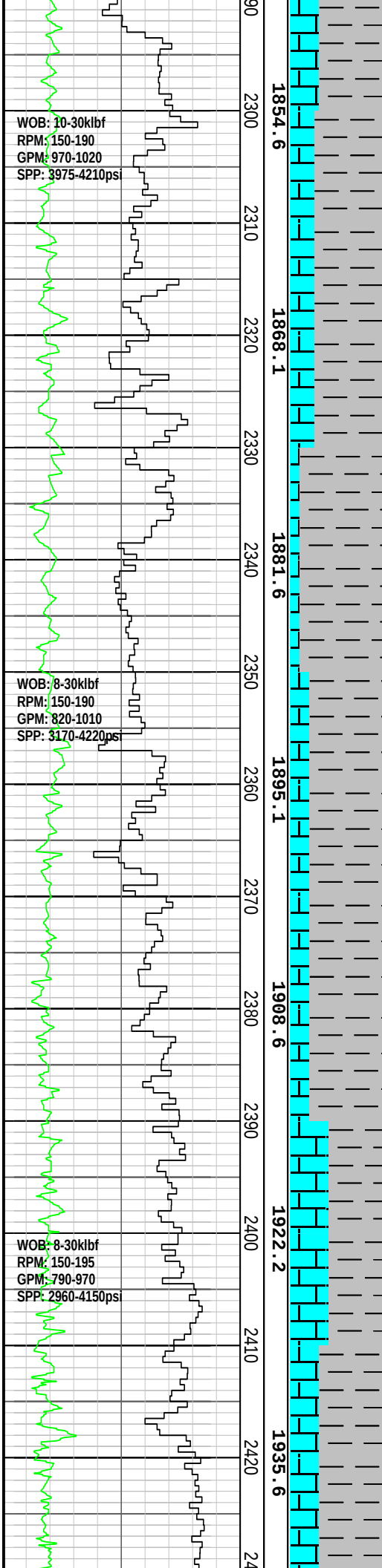
CALCILUTITE: v lt gy-lt gnsn gy, off wh, slty i/p grd to CLSLT, tr v f glauc grs, tr forams, tr oo, sft-frm, amor-sbblky

CALCISILTITE: med lt gy-lt olv gy, lt gnsn gy, argl i/p grd to CLCLT, tr v f sd grs, tr v f glauc, tr micmic, sft-frm, sbfiss-sbblky

CALCAREOUS CLAYSTONE: med gy- lt olv gy, v calc grd to CLCLT, tr micmic, tr v f glauc, slty, sft-dom frm, sbblky-blky

CALCISILTITE: med lt gy-lt olv gy, lt gnsn gy, argl i/p grd to CLCLT, tr v f sd grs, tr v f glauc, tr micmic, sft-frm, sbfiss-sbblky





Survey @ 2306.28 mMDRT
Incl: 47.61 deg
Azi: 190.39 deg
TVD: 1858.84 m

Survey @ 2335.22 mMDRT
Incl: 47.55 deg
Azi: 192.06 deg
TVD: 1878.37 m

Survey @ 2364.15 mMDRT
Incl: 47.47 deg
Azi: 194.28 deg
TVD: 1897.91 m

Survey @ 2393.50 mMDRT
Incl: 47.44 deg
Azi: 194.22 deg
TVD: 1917.76 m

Survey @ 2421.02 mMDRT
Incl: 47.67 deg
Azi: 193.00 deg
TVD: 1936.33 m

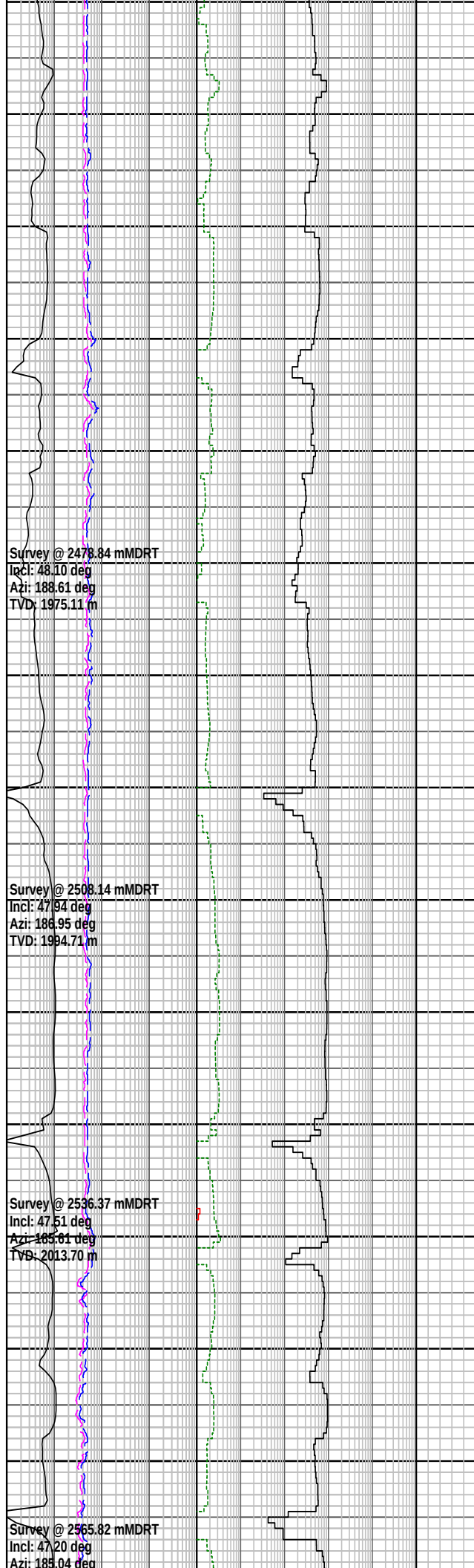
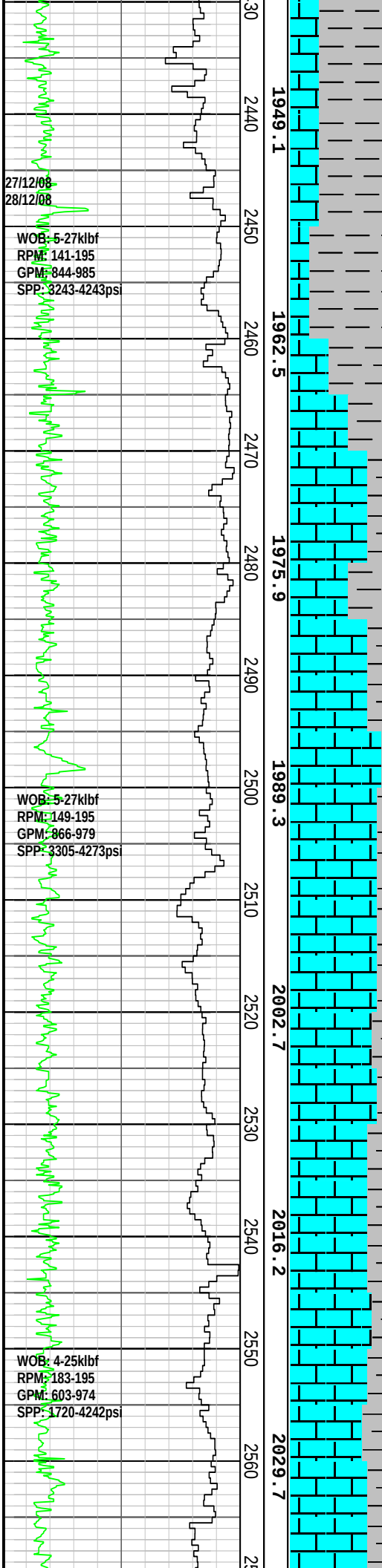
CALCAREOUS CLAYSTONE:
lt gy-med lt gy, lt olv gy, abdt
calc grd to CALCILUTITE, tr
micmic, tr v f glauc, tr v f
carb spks, dom sft-frm,
amor-sbblky

MW: 1.16	FV: 64
PV: 19	YP: 35
pH: 11.0	CK: 4.8
GELS: 10/12/13	CL: 49000

CALCAREOUS CLAYSTONE:
lt gy-med lt gy, lt olv gy, abdt
calc grd to CALCILUTITE, tr
micmic, tr v f glauc, tr v f
carb spks, dom sft-frm,
amor-sbblky

CALCAREOUS CLAYSTONE:
lt gy-med lt gy, lt olv gy, abdt
calc grd to CLCLT, tr micmic,
tr v f glauc, tr v f carb spks,
dom sft-frm, amor-sbblky

SILTY CALCISILTITE: v lt gy-lt
olv gy, grd to Argillaceous
SILTSTONE, tr v f aren, tr v f
glauc, tr micmic, tr v f carb
spks, dom sft-frm,
amor-sbblky



CALCAREOUS CLAYSTONE:
lt gy-med lt gy, lt olv gy, abdt calc grd to CLCLT, tr micmic, tr v f glauc, tr v f carb spks, dom sft-frm, amor-sbblky

MW: 1.15 FV: 69
PV: 19 YP: 35
pH: 11.0 CK: 4.8
GELS: 10/12/13 CL: 49000

CALCARENITE: lt gy-med lt gy, v f-f, wl srt, slt i/p grd to CLSLT, tr v f glauc grs, mod hd, p vis por, no hydc fluor

CALCISILTITE: v lt gy-lt olv gy, grd to SLT CLCLT and CALC SLTST, tr v f aren, tr v f glauc, tr micmic, tr v f carb spks, dom sft-frm, amor-sbblky, tr blk

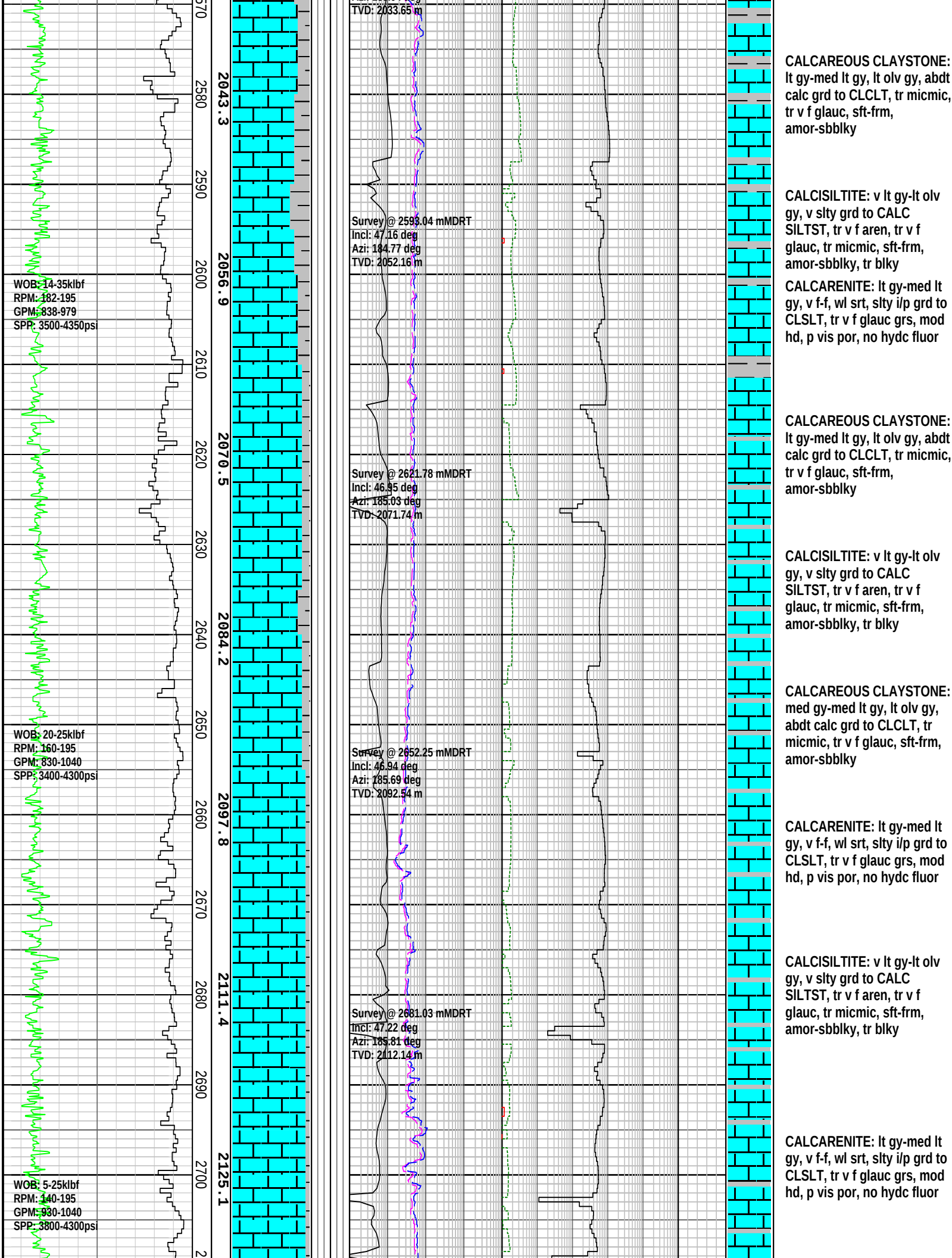
CALCISILTITE: v lt gy-lt olv gy, grd to SLT CLCLT and CALC SLTST, tr v f aren, tr v f glauc, tr micmic, tr v f carb spks, dom sft-frm, amor-sbblky, tr blk

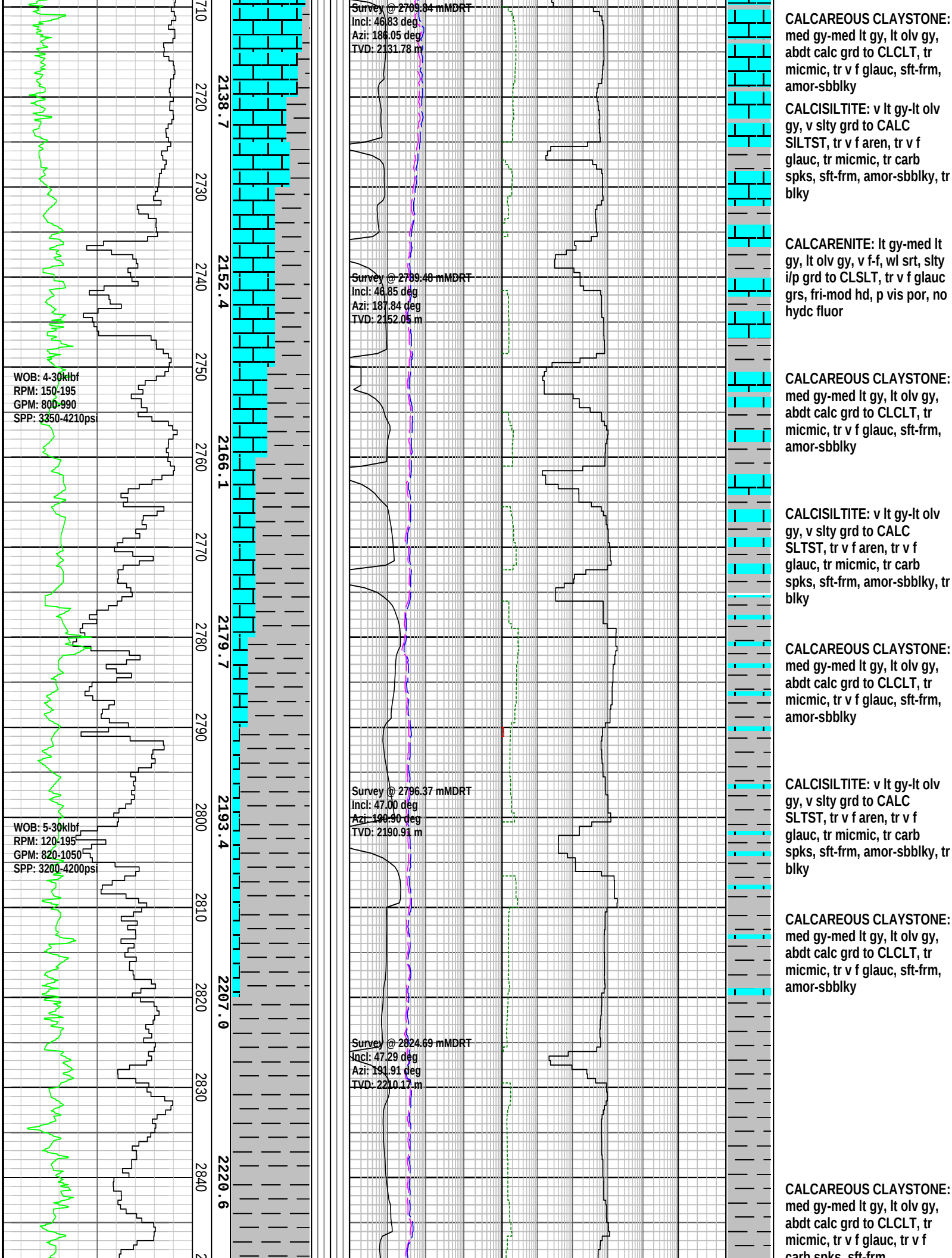
CALCARENITE: lt gy-med lt gy, v f-f, wl srt, slt i/p grd to CLSLT, tr v f glauc grs, mod hd, p vis por, no hydc fluor

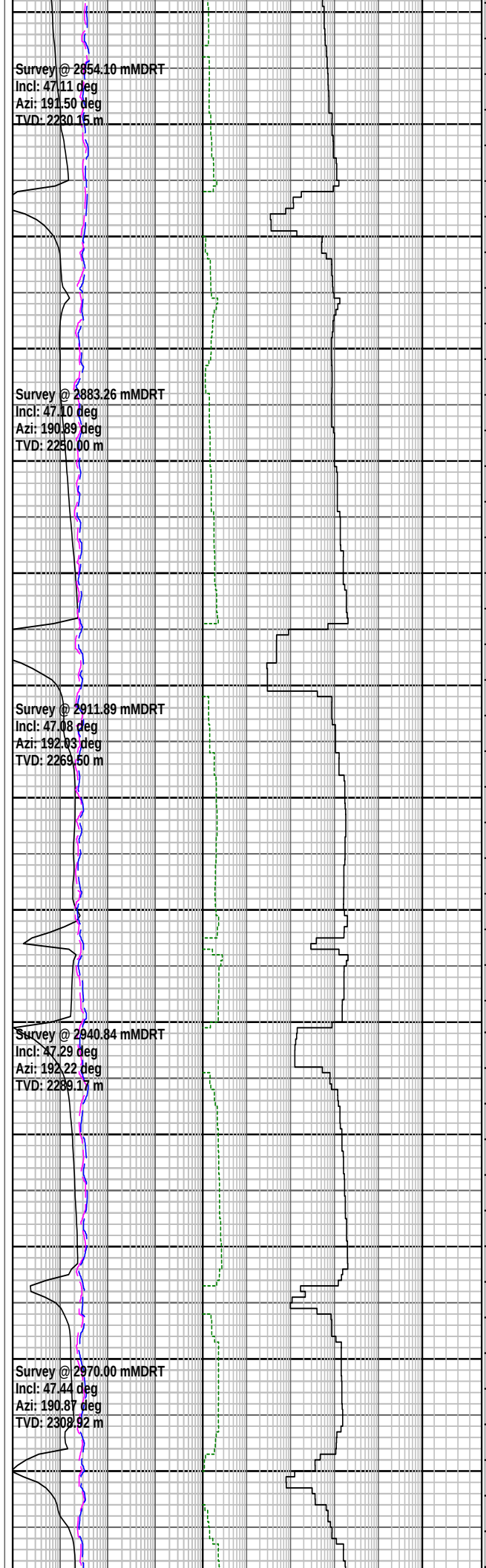
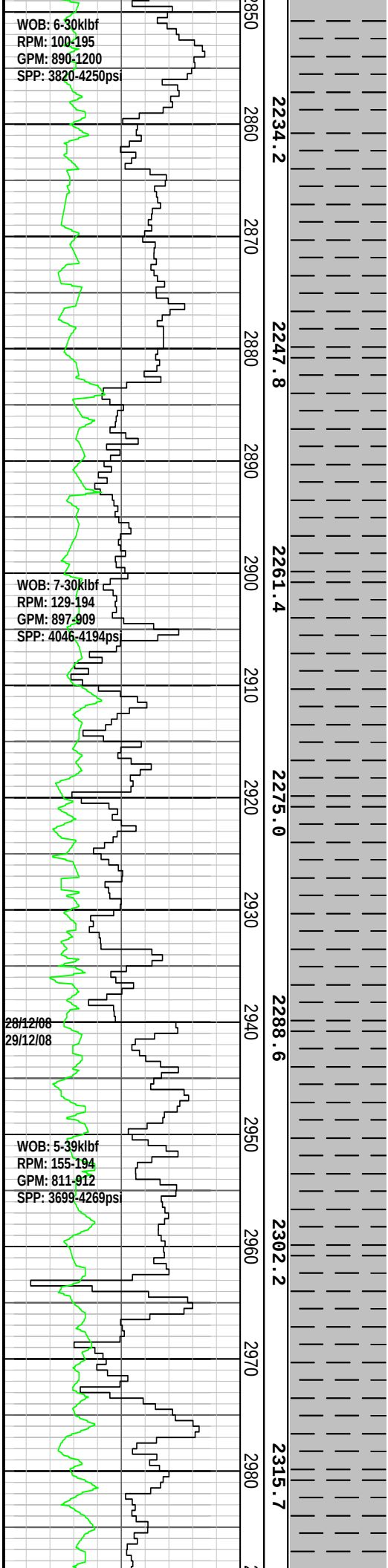
CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy, abdt calc grd to CLCLT, tr micmic, tr v f glauc, sft-frm, amor-sbblky

CALCISILTITE: v lt gy-lt olv gy, abdt slt grd to SLT CLCLT and CALC SLTST, tr v f aren, tr v f glauc, tr micmic, tr v f carb spks, dom sft-frm, amor-sbblky, tr blk

CALCARENITE: lt gy-med lt gy, v f-f, wl srt, slt i/p grd to CLSLT, tr v f glauc grs, mod hd, p vis por, no hydc fluor







carb spks, sft-frm,
amor-sbblky

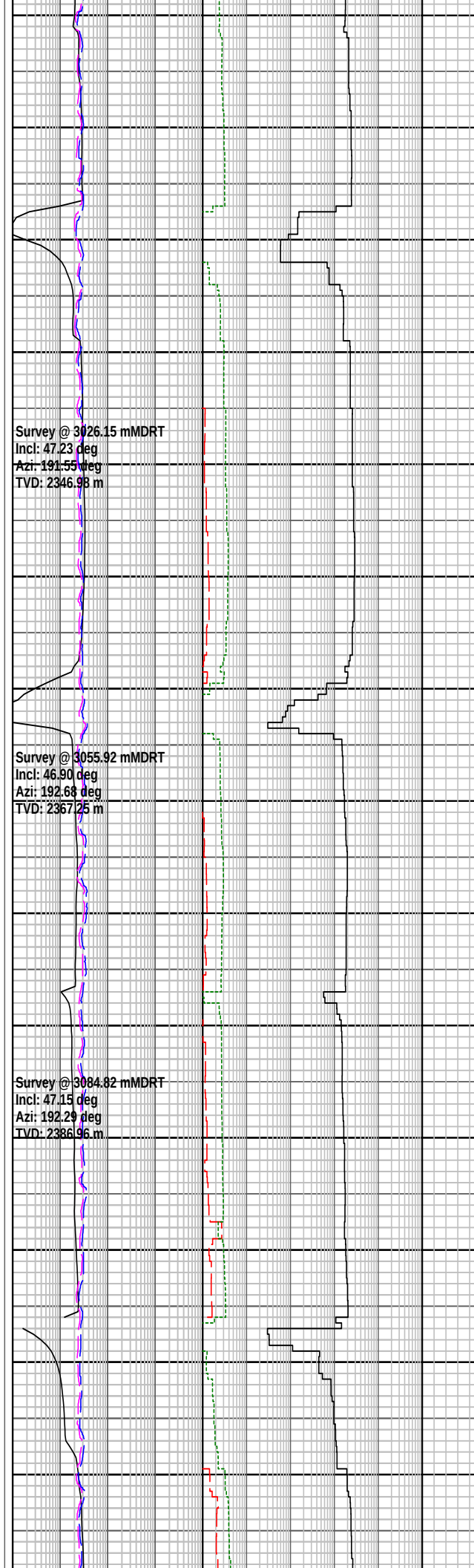
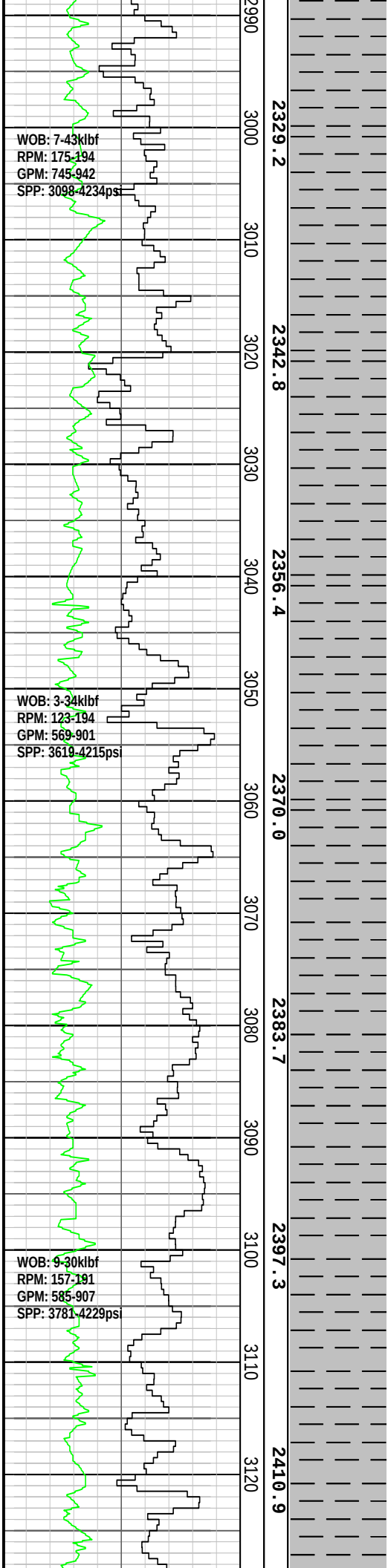
CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v f
carb spks, sft-frm,
amor-sbblky

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v f
carb spks, sft-frm,
amor-sbblky

MW: 1.16	FV: 61
PV: 19	YP: 30
pH: 10.8	CK: 6.0
GELS: 9/12/15	CL: 51000

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v f
carb spks, sft-frm,
amor-sbblky

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v f
carb spks, sft-frm,
amor-sbblky



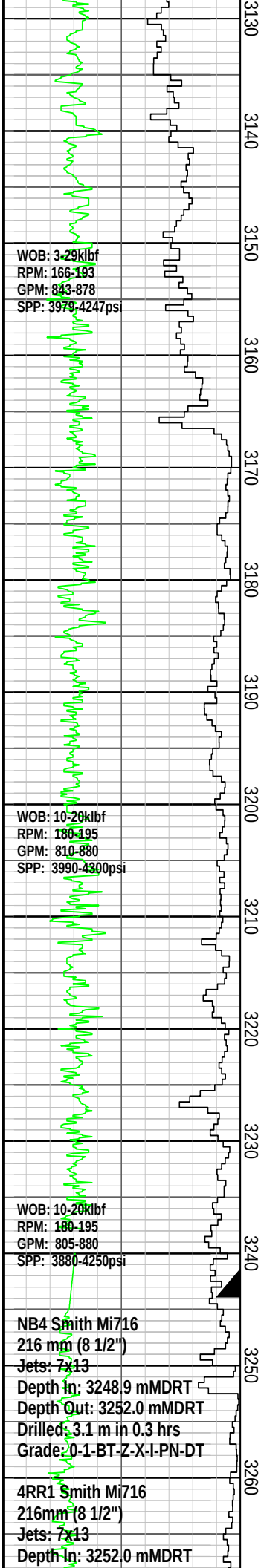
carb spks, sft-frm, amor-sbblky

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v f
carb spks, sft-frm,
amor-sbblky

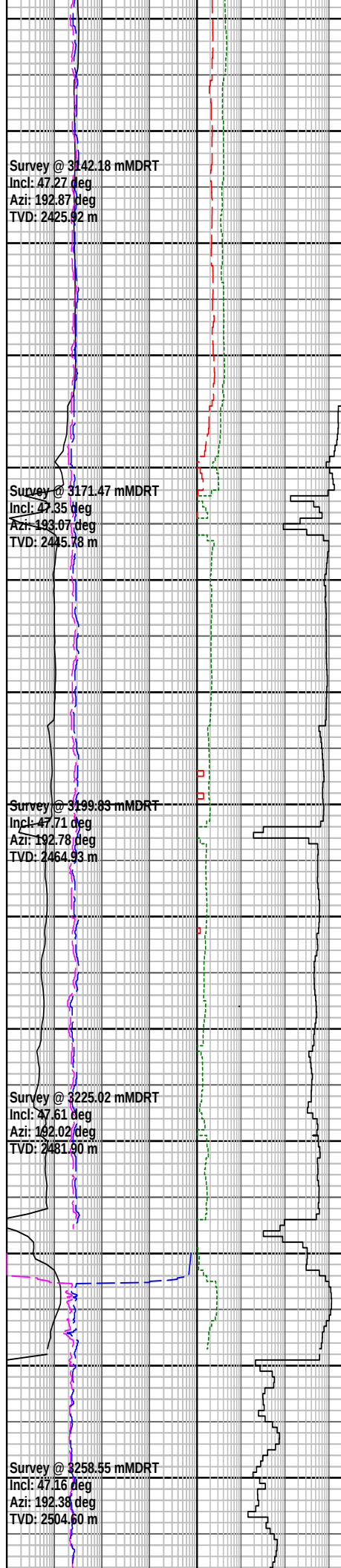
CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v f
carb spks, sft-frm,
amor-sbblky

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v
f-med carb spks, sft-frm,
amor-sbblky

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v
f-med carb spks, sft-frm,
amor-sbblky



2424.4
2438.0
2451.6
2465.1
2478.5
2492.0
2505.6



CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v
f-med carb spks, tr microfos,
sft-frn, amor-sbblky,

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v
f-med carb spks, tr microfos,
sft-frn, amor-sbblky,

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v
f-med carb spks, tr microfos,
sft-frn, amor-sbblky,

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v
f-med carb spks, tr microfos,
sft-frn, amor-sbblky,

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v
f-med carb spks, tr dissem
pyr, tr microfos, sft-frn,
amor-sbblky,

CALCAREOUS CLAYSTONE:
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v
f-med carb spks, tr com pyr
nod, tr microfos, sft-frn,
amor-sbblky,

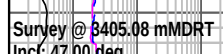
244mm (9 5/8") casing shoe @ 3243.9
mMDRT

Reached 311mm (12 1/4") section TD
@ 3248.9 mMDRT @ 1300 hrs on
29th December 2008

Conducted FIT to 1.60 sg EMW @
3252.0 mMDRT using 1.13 sg mud

POOH @ 3252.0 mMDRT to change
the failed MWD tool

WOB: 13-42klbf
RPM: 165-198
GPM: 600-730
SPP: 3200-4300psi



CALCAREOUS CLAYSTONE
med gy-med lt gy, lt olv gy,
abdt calc grd to CLCLT, tr
micmic, tr v f glauc, tr v
f-med carb spks, tr dissem
pyr, tr ang qtz, tr microfos,
sft-frm, amor-sbbblky

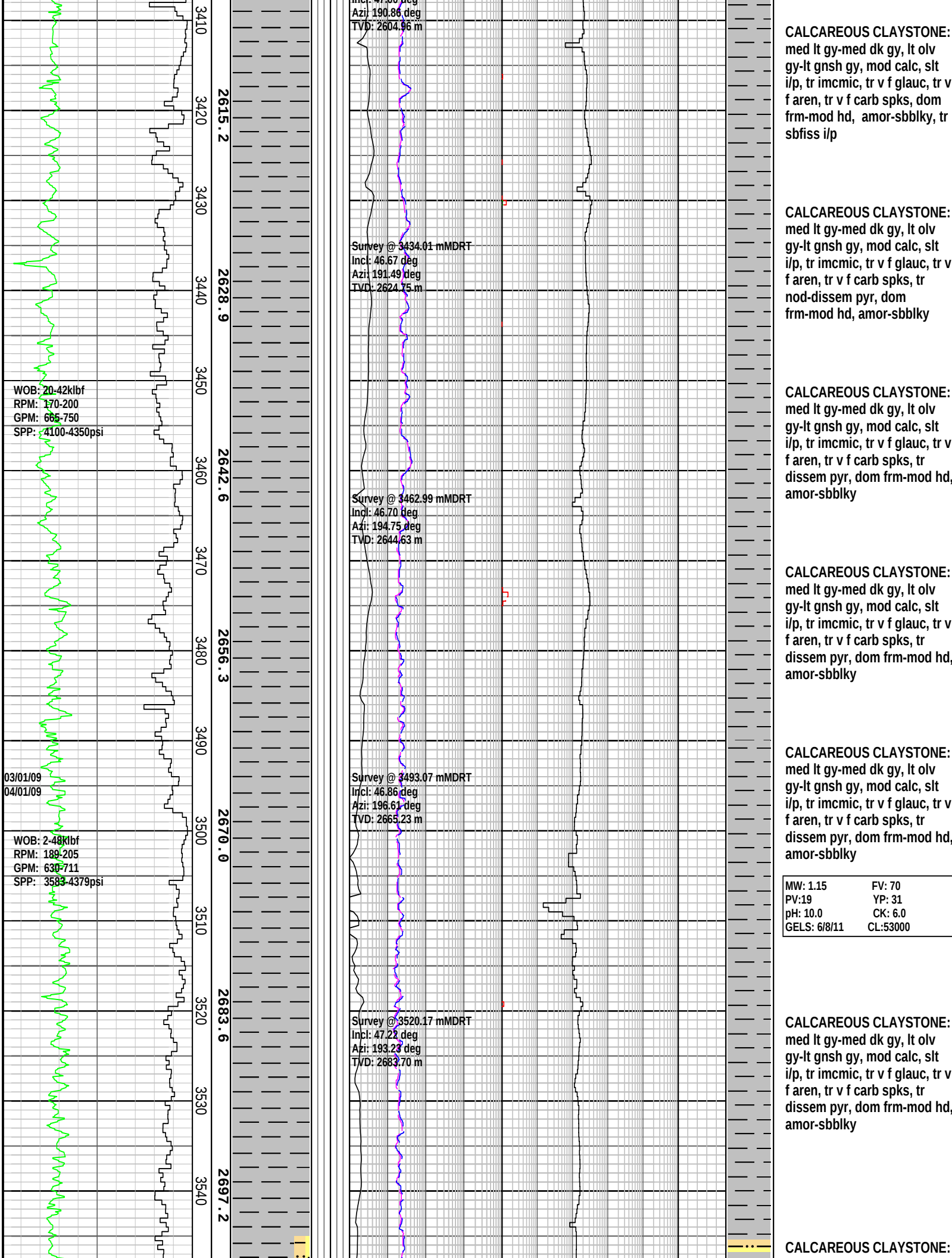
CALCAREOUS CLAYSTONE
med gy-med lt gy, lt olv gy,
abdt calc grd to MARL, tr
micmic, tr v f glauc, tr v
f-med carb spks, tr dissem
pyr, tr ang qtz, tr microfos,
sft-frm, amor-sbbblky

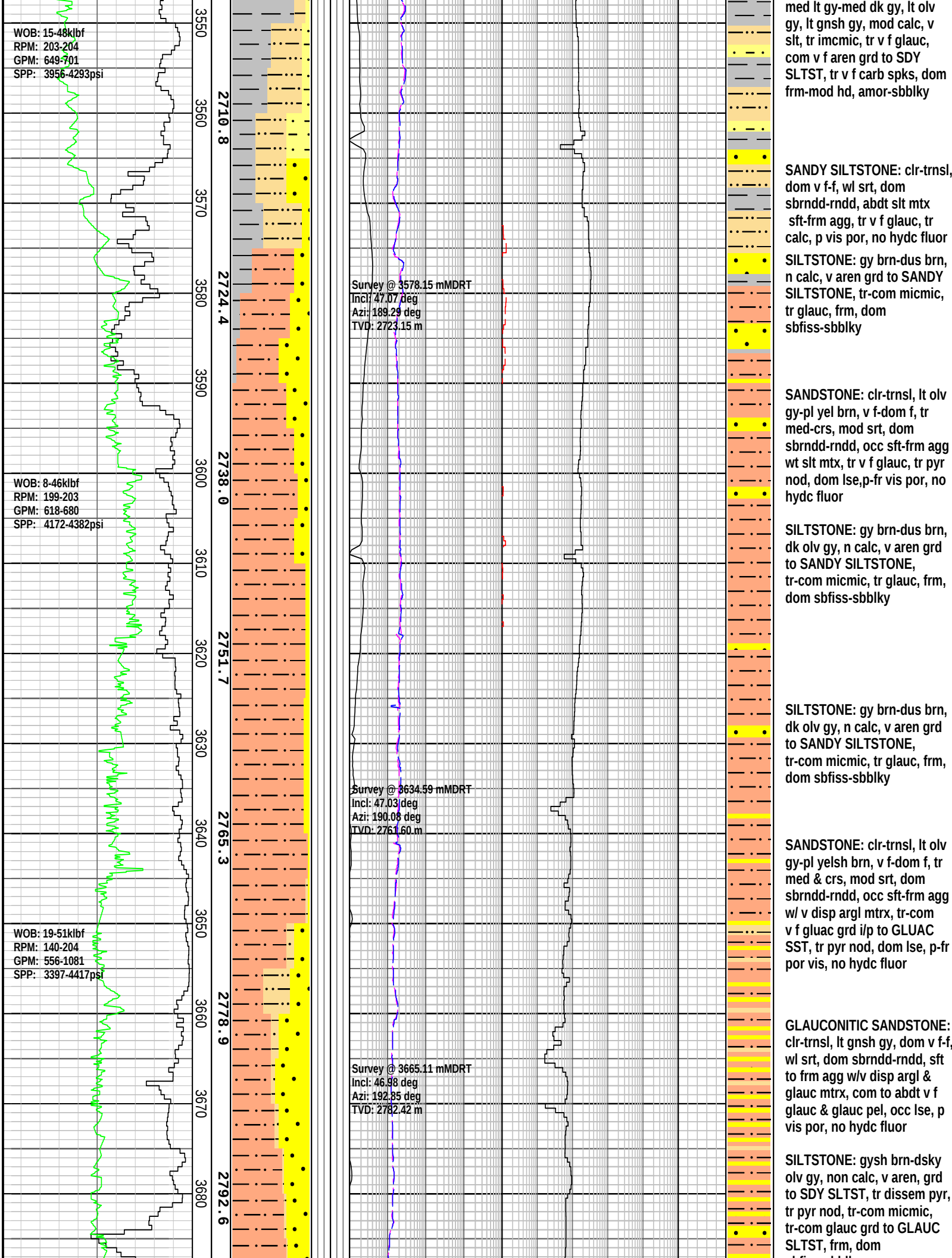
CALCAREOUS CLAYSTONE
med gy-med lt gy, lt olv gy,
abdt calc grd to MARL, tr
micmic, tr v f glauc, tr v
f-med carb spks, tr dissem
pyr, tr ang qtz, tr microfos,
sft-frm, amor-sbbblky

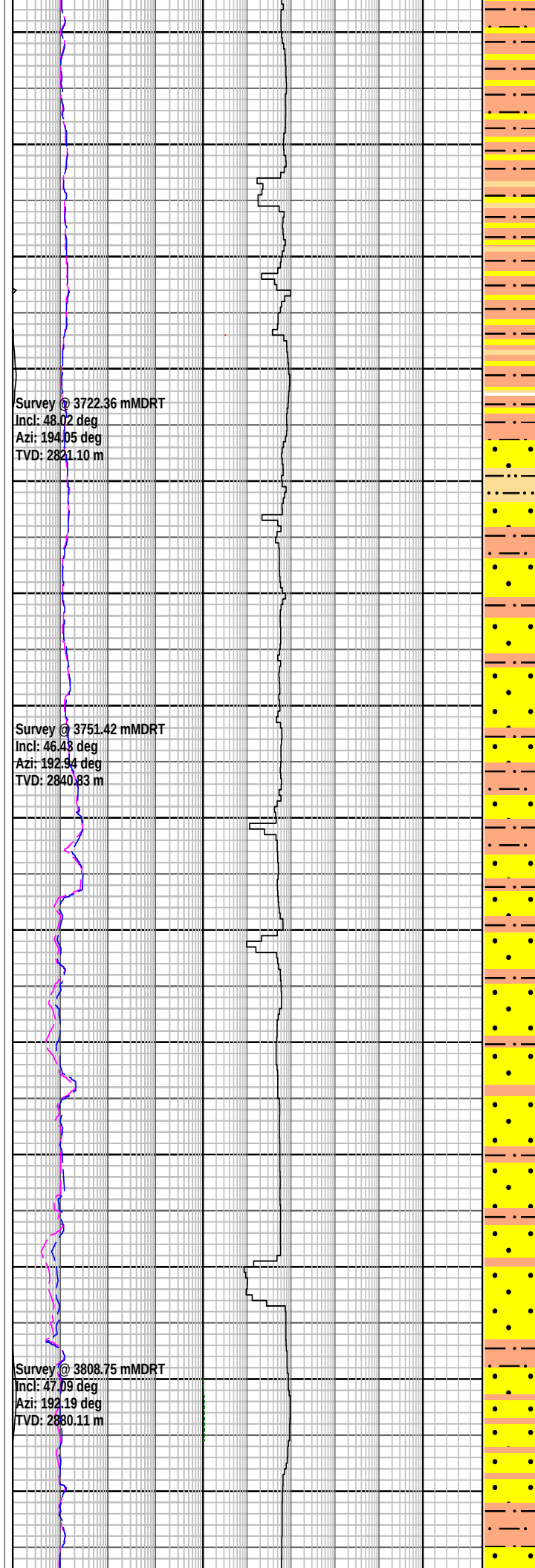
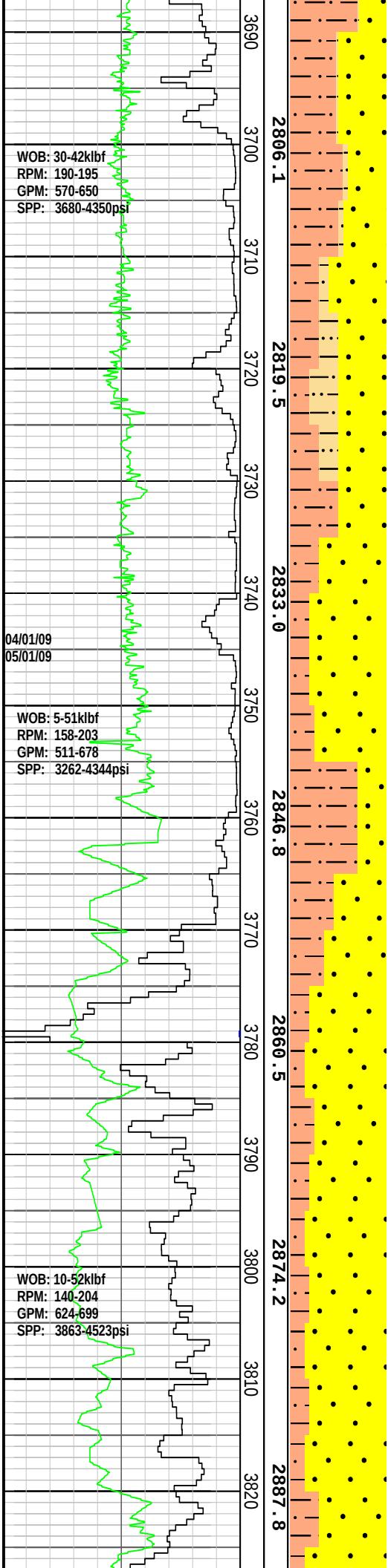
CALCAREOUS CLAYSTONE
med gy-med lt gy, lt olv gy,
micmic, tr v f glauc, tr v
f-med carb spks, tr pyr nod,
tr ang qtz, tr microfos,
sft-frm, amor-sbbblky, sbfiss
i/p

CALCAREOUS CLAYSTONE
med gy-med lt gy, lt olv gy,
micmic, tr v f glauc, tr v
f-med carb spks, tr pyr nod,
tr ang qtz, tr microfos,
sft-frm, amor-sbbblky, sbfiss
i/p

CALCAREOUS CLAYSTONE
med gy-med lt gy, lt olv gy,
micmic, tr f aren, tr v f glauc
tr v f-med carb spks, tr pyr
nod, tr ang qtz, tr microfos,
sft-frm, amor-sbbblky, sbfiss
i/p







sbriss-sbblky

SANDY SILTSTONE: off wh-v
lt gy, lt gnsh gy, com v f aren
grs grd i/p to SLTY SST, tr
calc, tr v f glauc, tr micmic,
sft-dom frm, sbfiss-sbblky

GLAUCONITIC SANDSTONE:
clr-trnsl, lt gnsh gy, dom v f-f,
wl srt, dom sbrnnd-rnnd, sft
to frm agg w/ v disp lt gy-dk
gnsh gy glauc argl mtrx,
com-abdt v f-med glauc grs,
occ lse, p vis por, no hydc
flur

SILTSTONE: olv gy-lt gy,
gysh brn-dsky brn , non calc,
v aren, grd to SDY SLTST, tr
dissem pyr, tr pyr nod,
tr-com micmic, tr-com glauc
grd to GLAUC SLTST, frm,
dom sbfiss-sbblky

GLAUCONITIC SANDSTONE:
clr-trnsl, lt gnsh gy, dom v f-f,
tr crs grs, wl srt, dom
sbrnnd-rnnd, sft to frm agg
w/ v disp lt gy-dk gnsh gy
glauc argl mtrx, com-abdt v
f-med glauc grs, occ lse, p
vis por, no hydc flur

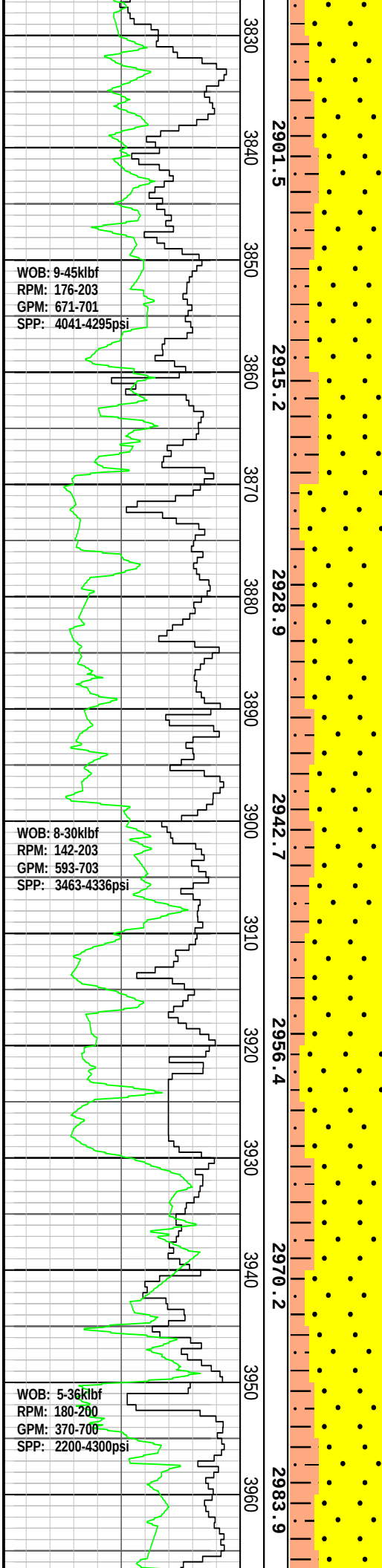
SILTSTONE: olv gy-dk olv gy,
gysh brn-dsky brn, non calc,
v aren grd to SDY SLTST, tr
pyr nod, tr-com micmic, tcom
f com glauc grd to GLAUC
SLTST, frm, dom
sbfiss-sbblky

SANDSTONE: clr-trnsl, tr frs,
med-v crs, dom crs, mod srt,
ang-sbang, r sbrnnd, clr, lse,
p-fr por, no hydc flur

SANDSTONE: clr-trnsl, tr lt
gy, tr frs, dom crs-v crs, mod
srt, ang-sbang, r sbrnnd, clr,
lse, tr pyt nod, p-fr por, no
hydc flur

SILTSTONE: olv gy-dk olv gy,
gysh brn-dsky brn, non calc,
v aren grd to SDY SLTST, tr
pyr nod, tr-com micmic, tcom
f com glauc grd to GLAUC
SLTST, frm, dom
sbfiss-sbblky

SANDSTONE: clr-trnsl, tr v lt



Survey @ 3837.28 mMDRT
Incl: 46.67 deg
Azi: 191.82 deg
TVD: 2899.61 m

Test Gas line OK

Survey @ 3866.96 mMDRT
Incl: 46.73 deg
Azi: 191.65 deg
TVD: 2919.96 m

Survey @ 3895.32 mMDRT
Incl: 46.55 deg
Azi: 192.96 deg
TVD: 2939.43 m

Survey @ 3924.44 mMDRT
Incl: 46.55 deg
Azi: 196.50 deg
TVD: 2959.46 m

Survey @ 3952.66 mMDRT
Incl: 46.69 deg
Azi: 197.57 deg
TVD: 2978.85 m

gy, tr fros, med-v crs, dom crs-v crs, wl srt, ang-dom sbang, r sbrndd, wk sil cmt, tr pyr nod, cln, lse, pr-fr inf por, no hydc fluor

SILTSTONE: olv gy-dk olv gy, med gy, gysh brn, non calc, tr v f aren, tr-com micmic, tr disse pyr, tr nod pyr, frm, dom sbfiss-sbblky

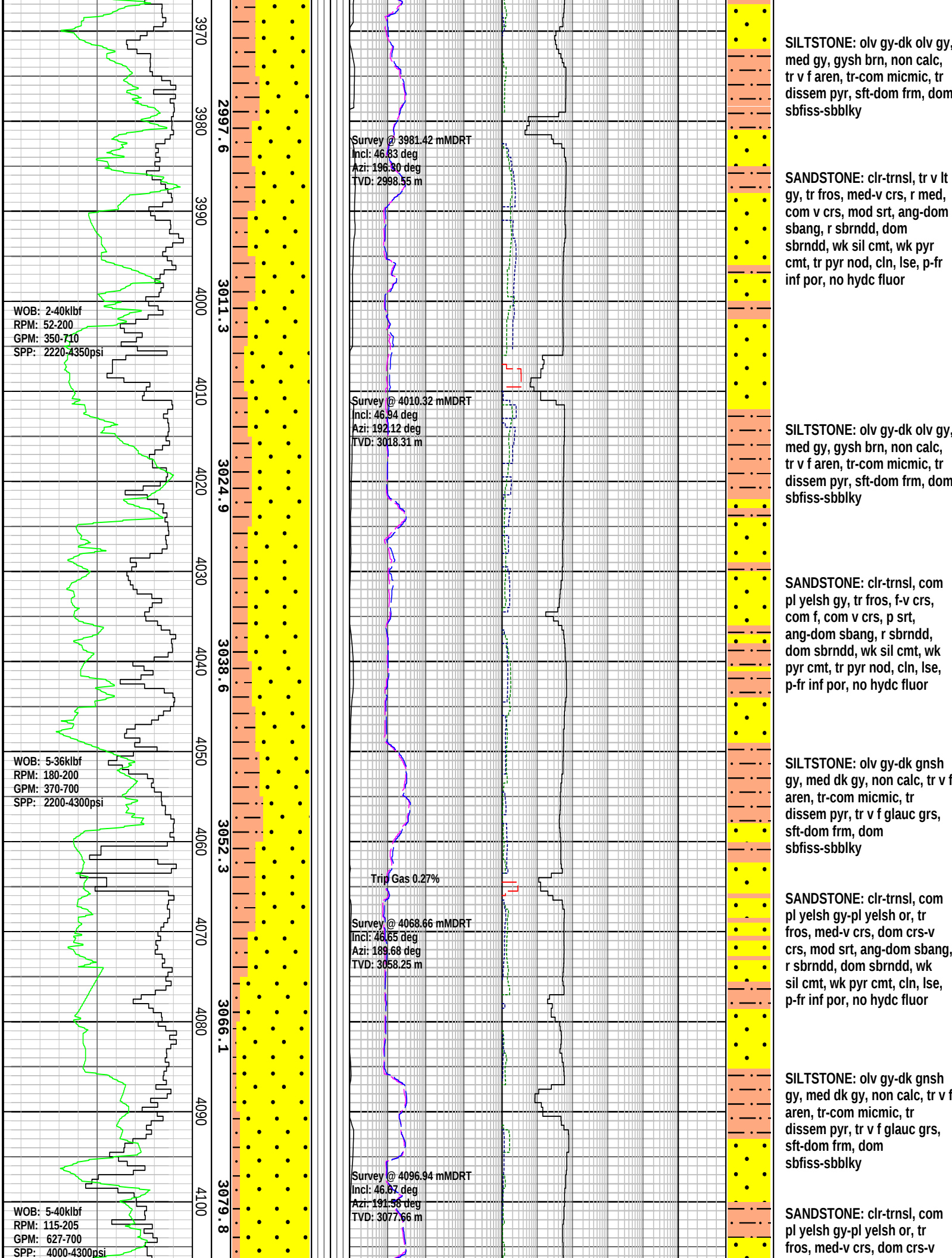
SANDSTONE: clr-trnsl, tr v lt gy, tr fros, v f-v crs, com v f-f, com v crs, p srt, ang-dom sbang, r sbrndd, dom sbrndd, wk sil cmt, wk pyr cmt on crs grs, tr pyr nod, cln, lse, pr-fr inf por, no hydc fluor

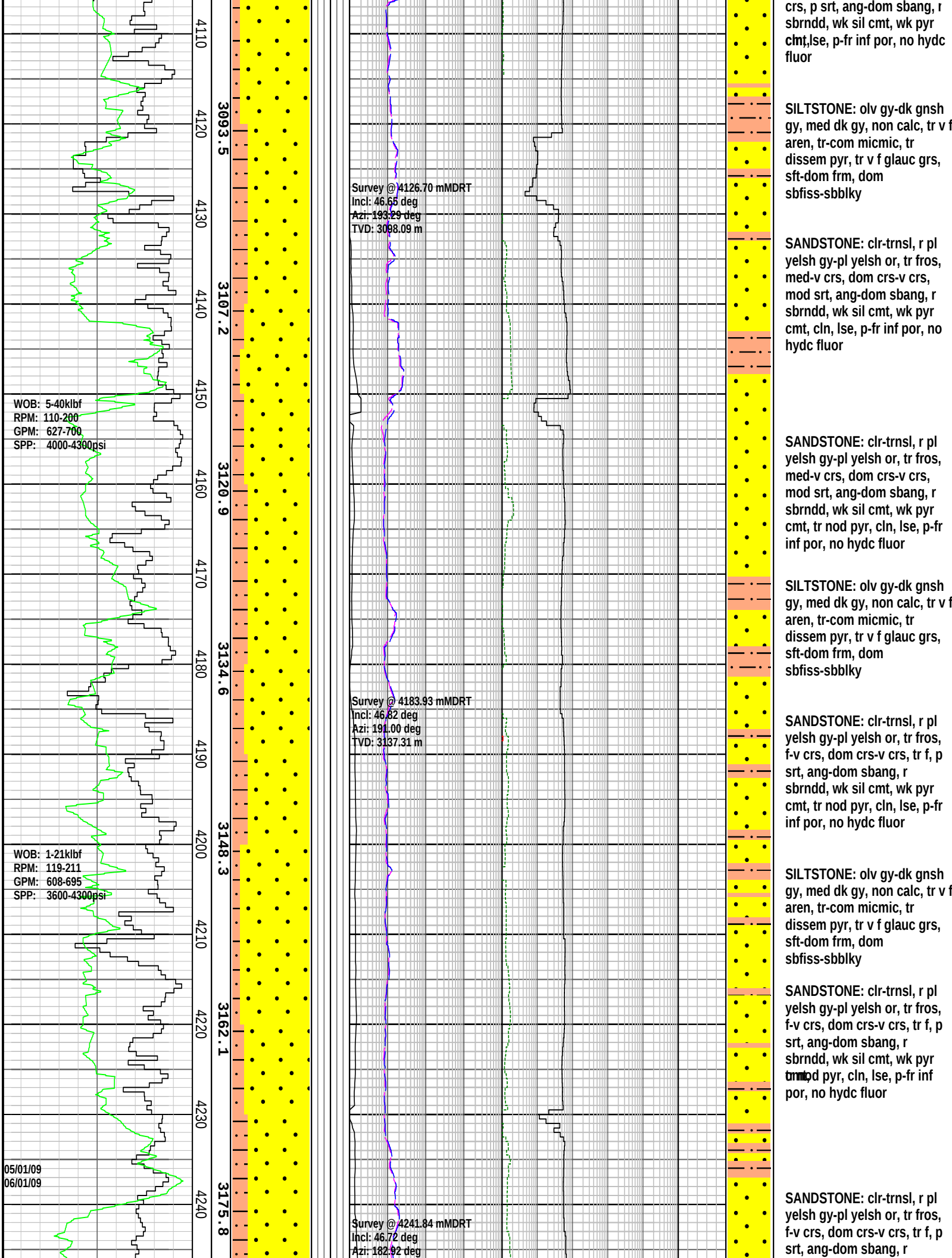
SILTSTONE: olv gy-dk olv gy, med gy, gysh brn, non calc, tr v f aren, tr-com micmic, tr disse pyr, tr nod pyr, frm, dom sbfiss-sbblky

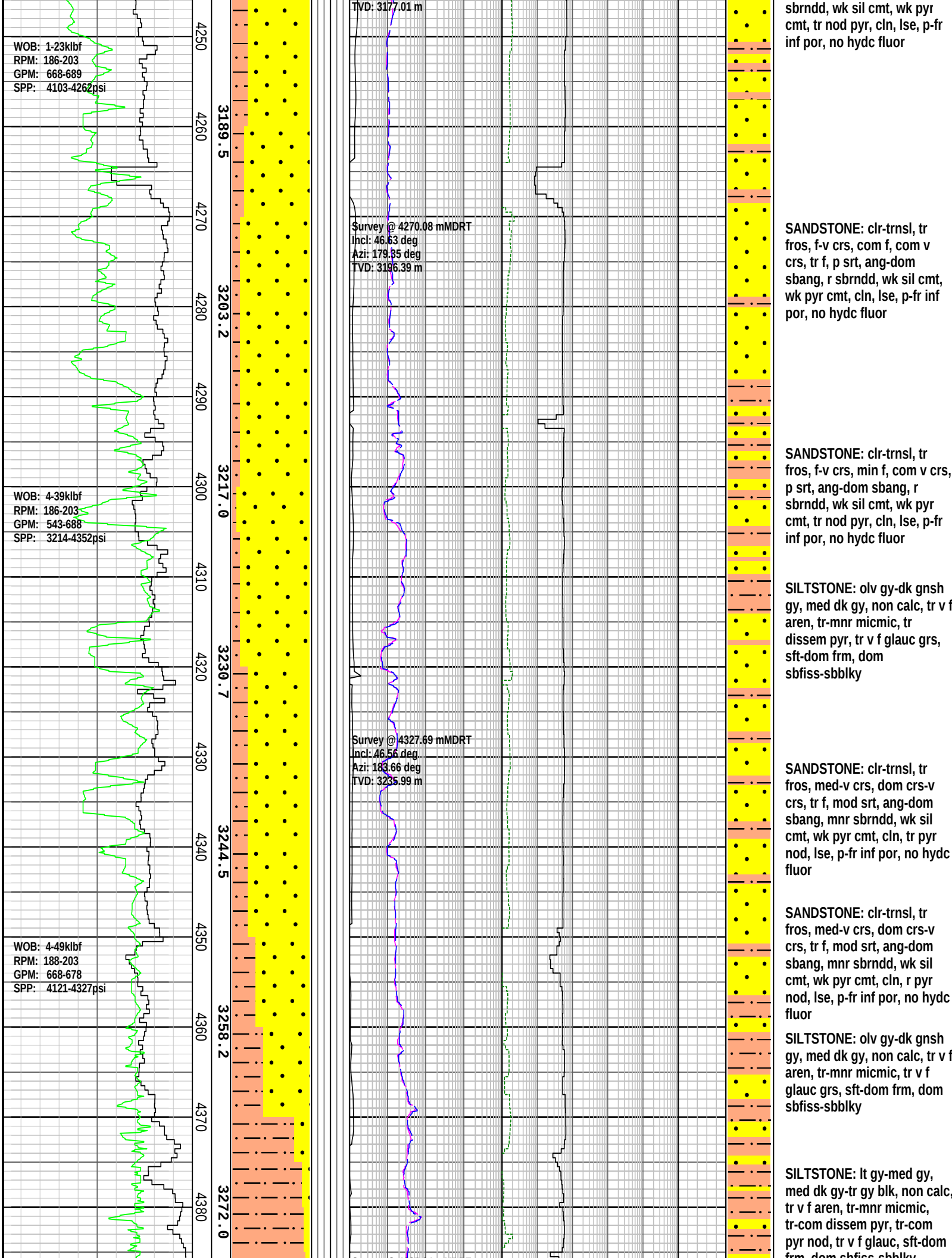
SANDSTONE: clr-trnsl, tr v lt gy, tr fros, v f-v crs, com v f-f, com v crs, p srt, ang-dom sbang, r sbrndd, dom sbrndd, wk sil cmt, wk pyr cmt tr pyr nod, cln, lse, p-fr inf por, no hydc fluor

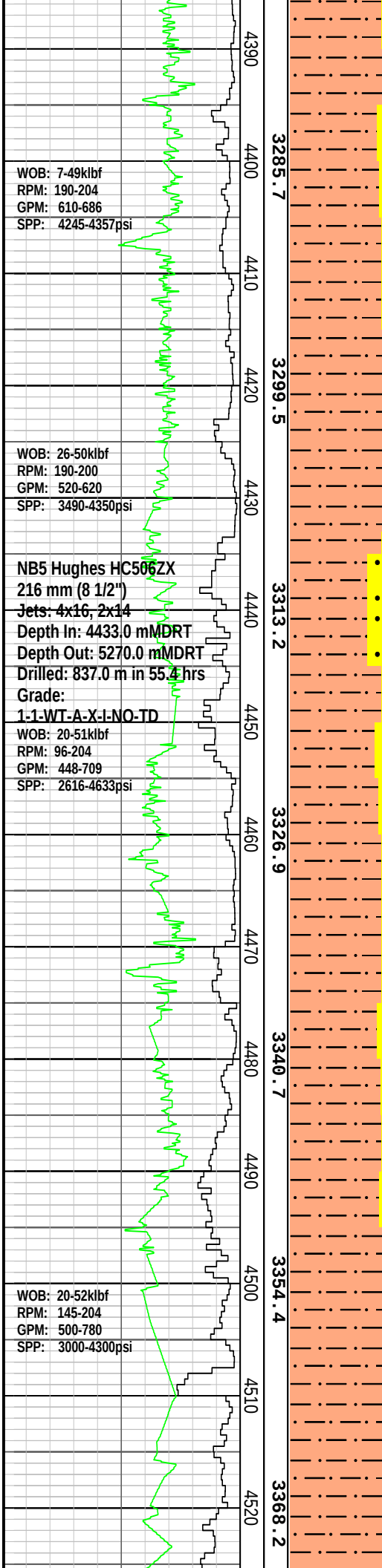
SILTSTONE: olv gy-dk olv gy, med gy, gysh brn, non calc, tr v f aren, tr-com micmic, tr disse pyr, sft-dom frm, dom sbfiss-sbblky

SANDSTONE: clr-trnsl, tr v lt gy, tr fros, med-v crs, com v f-f, com v crs, mod srt, ang-dom sbang, r sbrndd, dom sbrndd, wk sil cmt, wk pyr cmt, tr pyr nod, cln, lse, p-fr inf por, no hydc fluor









Survey @ 4385.94 mMDRT
Incl: 46.61 deg
Azi: 189.08 deg
TVD: 3276.04 m

Test Gas line OK

Survey @ 4506.38 mMDRT
Incl: 46.59 deg
Azi: 190.45 deg
TVD: 3358.79 m

SILTSTONE: lt gy-med gy, med dk gy-tr gy blk, non calc, tr v f aren, tr-mnr micmic, tr-com disse pyr, tr-com pyr nod, tr v f glauc, sft-dom frm, dom sbfiss-sbblky

SILTSTONE: lt gy-med gy, med dk gy-tr gy blk, non calc, tr v f aren, tr-mnr micmic, tr-com disse pyr, tr-com pyr nod, tr v f glauc, sft-dom frm, dom sbfiss-sbblky

SANDSTONE: clr-trnsl, tr fros, med-v crs, dom crs-v crs, tr f, mod srt, ang-dom sbang, mnrr sbrndd, wk sil cmt, wk pyr cmt, cln, r pyr nod, lse, p-fr inf por, no hydc fluor

POOH @ 4433.0 mMDRT to pick up drill pipe & change Bit

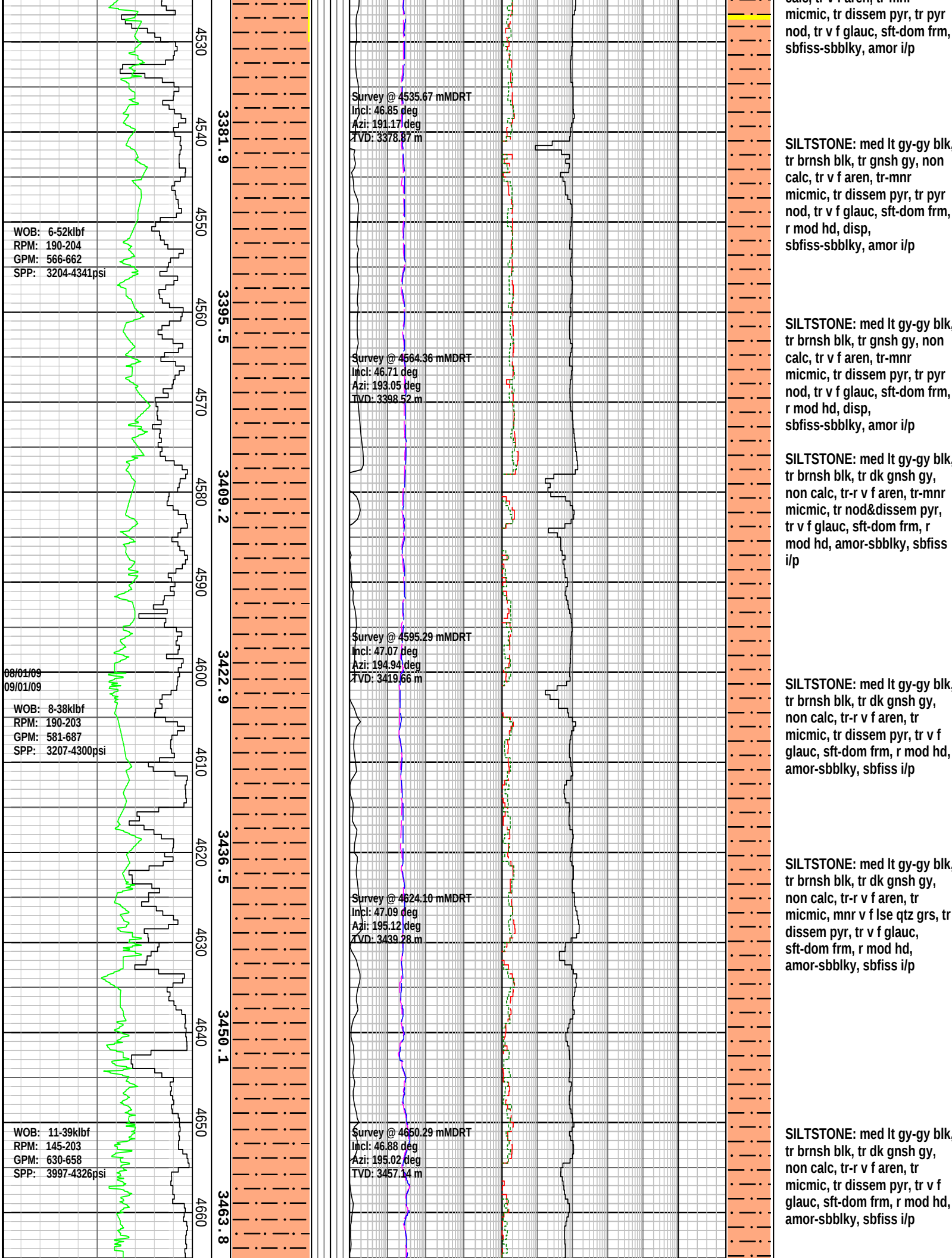
SILTSTONE: lt gy-med gy, med dk gy-tr gy blk, com dsk brn, non calc, tr v f aren, tr-mnr micmic, tr-com disse pyr, tr-com pyr nod, tr v f glauc, sft-dom frm, dom sbfiss-sbblky

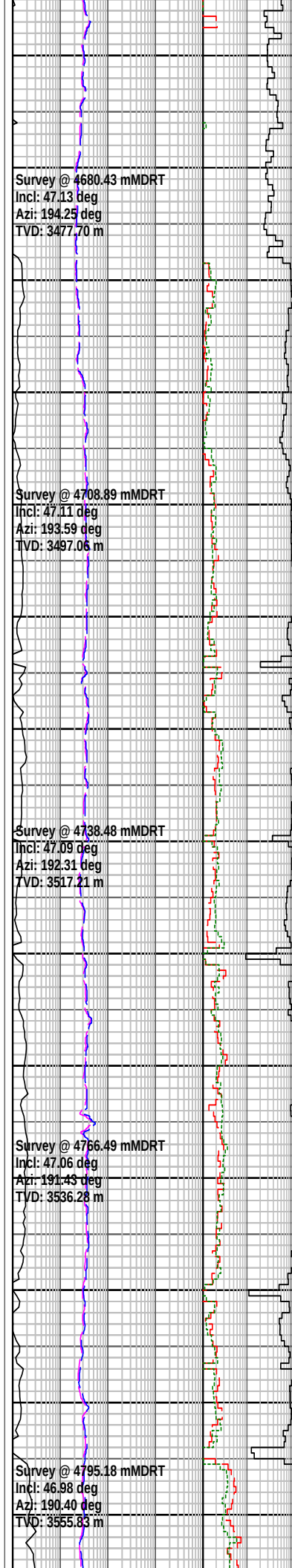
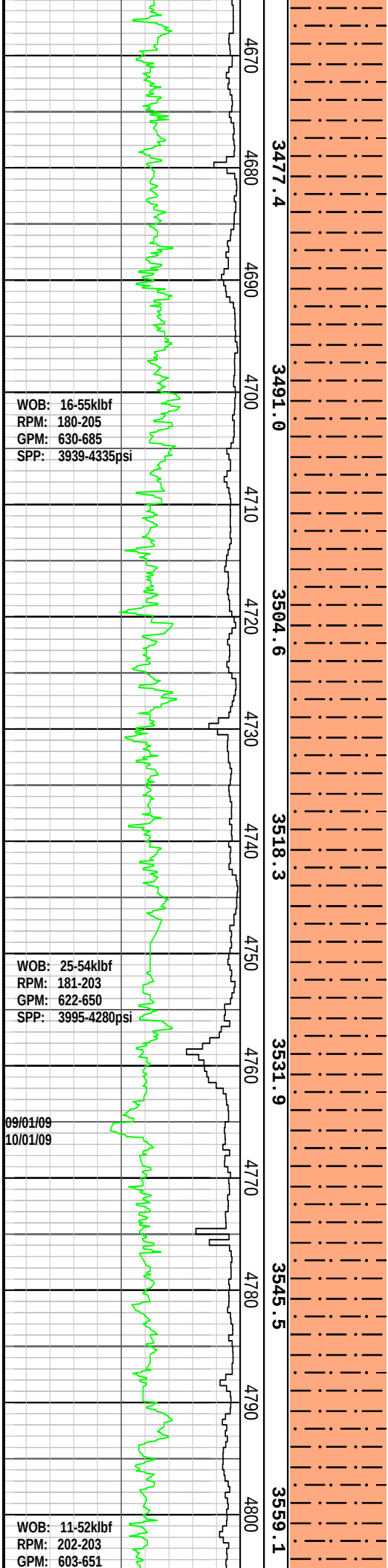
SILTSTONE: lt gy-med gy, med dk gy-gy blk gy, com dsky brn, non calc, tr v f aren, tr-mnr micmic, tr disse pyr, tr pyr nod, tr v f glauc, sft-dom frm, r mod hd, disp, sbfiss-sbblky, amor i/p

SANDSTONE: 1:3% clr-trnsl, tr v lt gy, dom v f-f, wl srt, dom sbrndd-sbang, v f-f grs, occ wl v disp lt gy argl mtrx that is washed out, p-fr inf por, no hydc fluor

SANDSTONE: 2:3% (possible cavings), clr-trnsl, tr v lt gy, crs-v crs, wl srt, dom sbang-sbrndd, wl sil cmt & wk pyr cmt on crs grs, tr nod pyr, dom cln, lse, p-fr inf por, no hydc fluor

SILTSTONE: med lt gy-gy blk, tr brnsh blk, tr gnsh gy, non calc, tr v f aren, tr-mnr





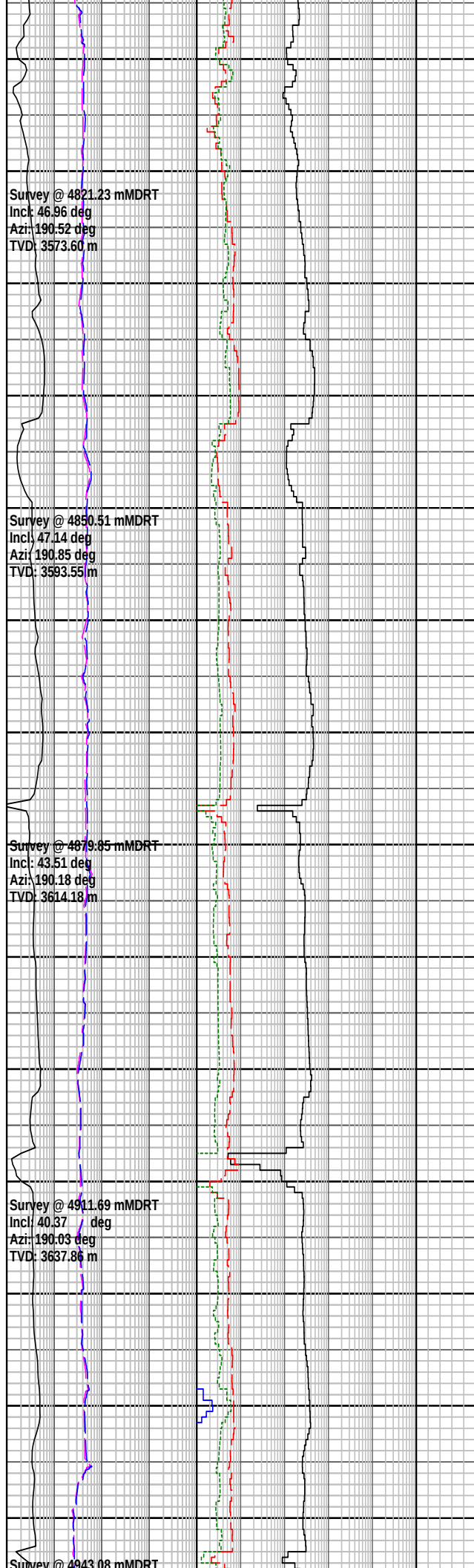
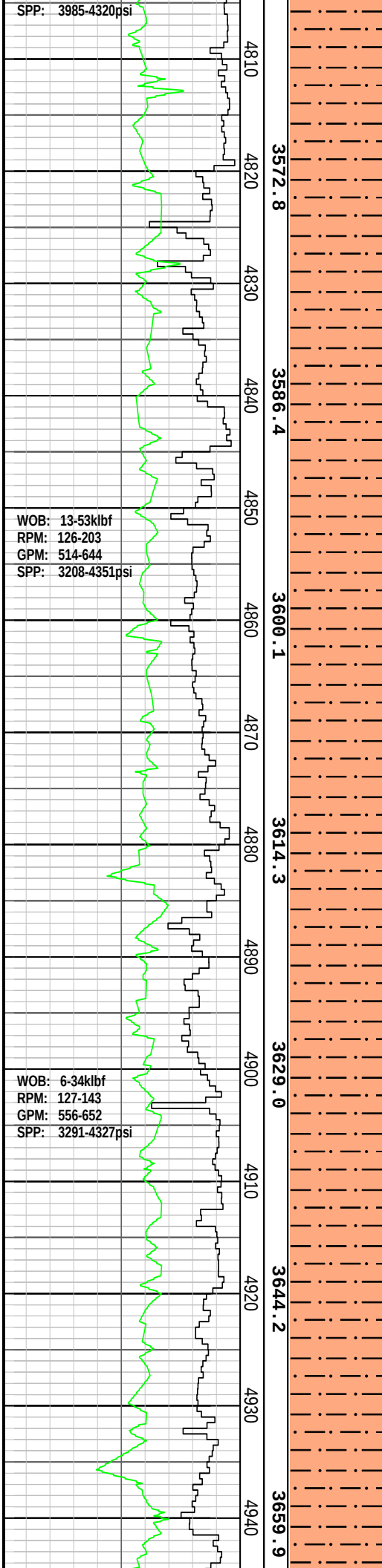
SILTSTONE: med lt gy-gy blk, tr brnsh blk, r-mnr dk gnsh gy, non calc, tr v f aren, tr v f lse qtz grs, arg grd to SLTY CLYST i/p, tr micmic, tr dissem pyr, tr v f glauc, tr glauc cl pel, sft-dom frm, r mod hd, amor-sbblky, sbfiss i/p

SILTSTONE: med lt gy-olv gy, tr brnsh blk, r-mnr dk gnsh gy, non calc, tr v f aren, tr v f lse qtz grs, arg grd to SLTY CLYST i/p, tr micmic, tr dissem pyr, tr v f glauc, tr glauc cl pel, sft-dom frm, r mod hd, amor-sbblky, sbfiss i/p

SILTSTONE: med lt gy-dk gnsh gy, tr brnsh blk, non calc, tr v f aren, arg grd to SLTY CLYST i/p, tr micmic, tr dissem pyr, tr v f glauc, tr glauc cl pel, sft-dom frm, r mod hd, amor-sbblky, sbfiss i/p

SILTSTONE: med lt gy-dk gnsh gy, tr brnsh blk, non calc, tr v f aren, arg grd to SLTY CLYST i/p, tr micmic, tr dissem pyr, tr v f glauc, tr glauc cl pel, sft-dom frm, r mod hd, amor-sbblky, sbfiss i/p

SILTSTONE: med lt gy-dk gnsh gy, tr brnsh blk, non calc, tr v f aren, arg grd to SLTY CLYST i/p, tr micmic, tr nod-dissem pyr, tr v f glauc, tr glauc cl pel, sft-dom frm, r mod hd, amor-sbblky, sbfiss i/p



SILTSTONE: med lt gy-dk
gnsh gy, tr brnsh blk,non
calc, tr v f aren, bcm sd, tr
micmic, tr disseminated
pyr, tr v f glauc, sft-dom frm,
r mod hd, amor-sbbilky,
sbfiss i/p

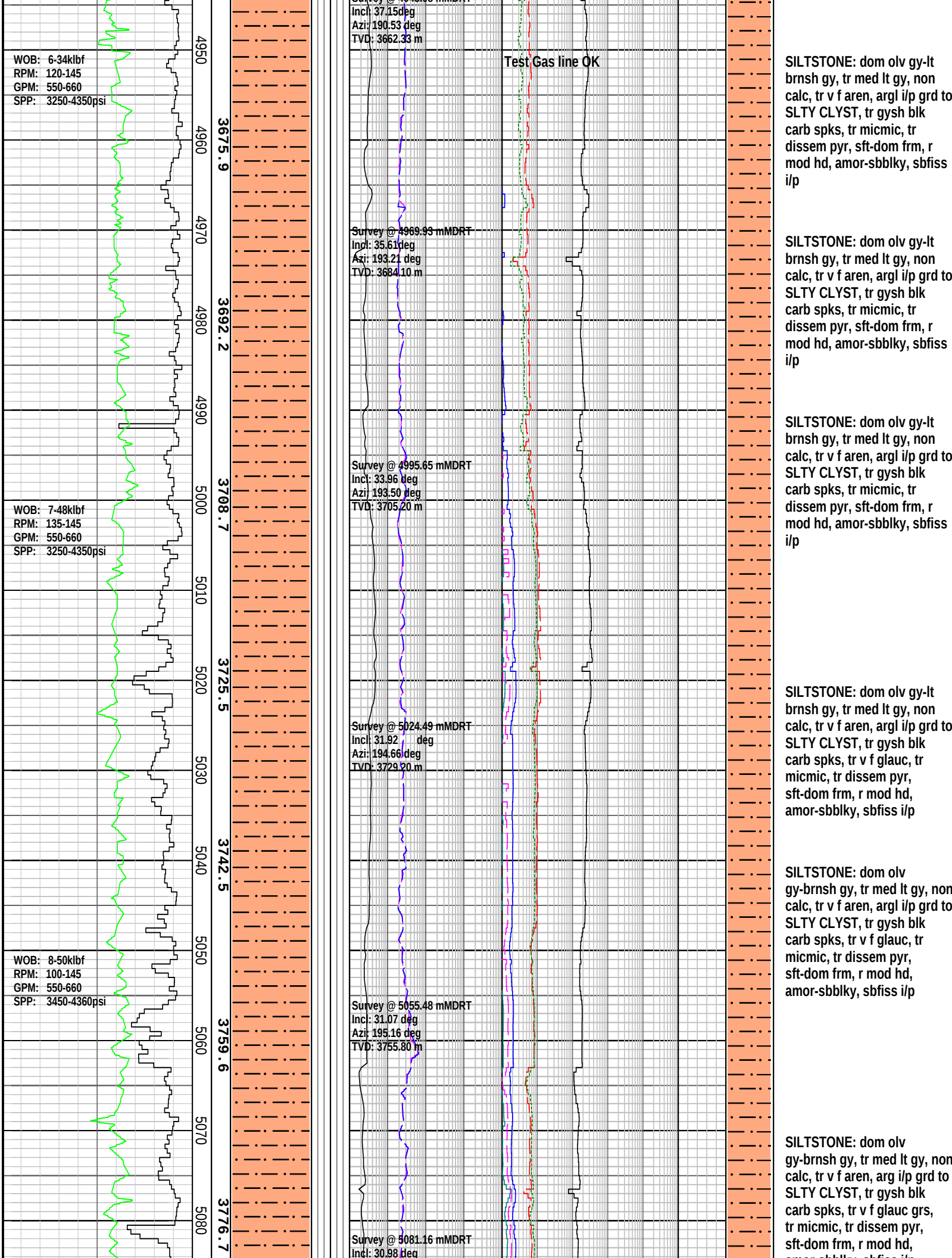
SILTSTONE: dom olv gy-med
lt gy, tr brnsh blk,non calc, tr
v f aren, tr micmic, tr disseminated
pyr, tr v f glauc, sft-dom frm,
r mod hd, amor-sbbilky,
sbfiss i/p

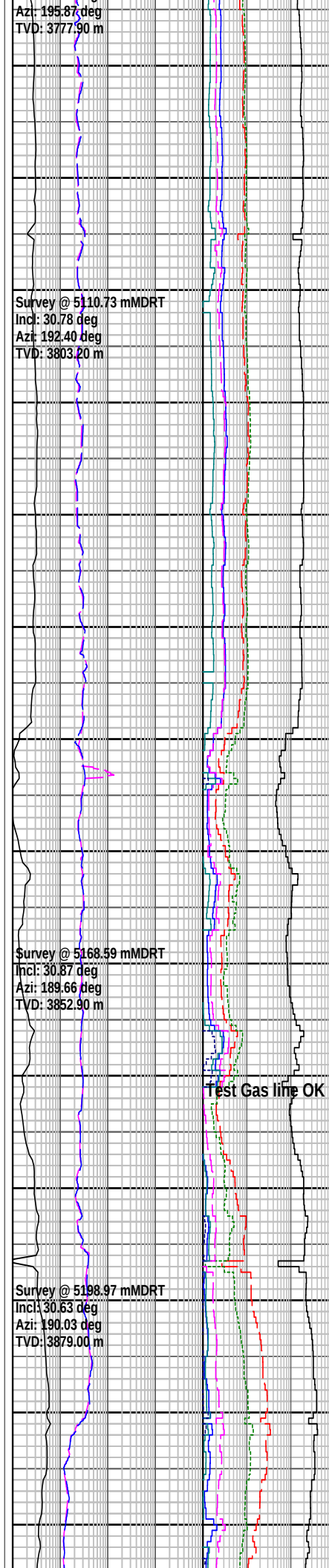
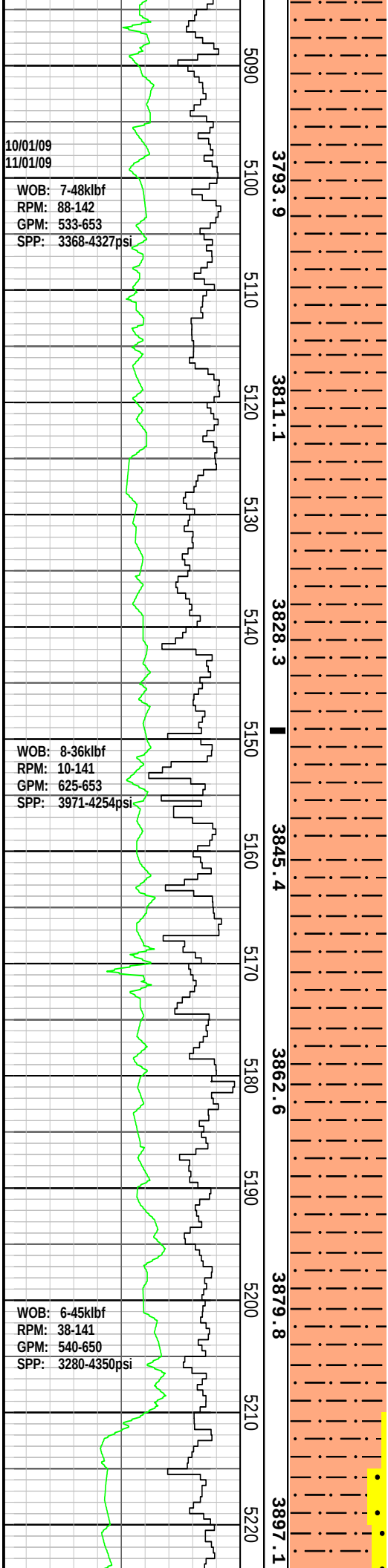
SANDSTONE: clr-trnsl, tr lt
brnsh gy, dom v f-f, wl srt,
dom sbang-sbrnnd, v sft agg
w/ disp lt brnsh gy argl mtrx,
p inf por, no hydc fluor

SILTSTONE: dom olv gy-med
lt gy, tr brnsh blk,non calc, tr
v f aren, argl i/p grd to SLTY
CLYST, tr micmic, tr disseminated
pyr, tr v f glauc, sft-dom frm,
r mod hd, amor-sbbilky,
sbfiss i/p

SILTSTONE: dom olv gy-med
lt gy, tr brnsh blk,non calc, tr
v f aren, argl i/p grd to SLTY
CLYST, tr micmic, tr disseminated
pyr, tr v f glauc, sft-dom frm,
r mod hd, amor-sbbilky,
sbfiss i/p

SANDSTONE: clr-trnsl, tr lt
brnsh gy, dom v f-f, r med, wl
srt, dom sbang-sbrnnd, v sft
agg w/ disp lt brnsh gy argl
mtrx, p inf por, no hydc fluor





amor-sbblky, sbfiss i/p

SILTSTONE: dom olv
gy-brnsh gy, tr med lt gy, non
calc, tr v f aren, arg i/p grd to
SLTY CLYST, tr gysh blk
carb spks, tr v f glauc grs,
tr micmic, tr dissem pyr,
sft-dom frm, r mod hd,
amor-sbblky, sbfiss i/p

SILTSTONE: dom olv
gy-brnsh gy, tr med lt gy, non
calc, tr v f aren, arg i/p grd to
SLTY CLYST, tr gysh blk
carb spks, tr v f glauc grs,
tr micmic, tr dissem pyr,
sft-dom frm, r mod hd,
amor-sbblky, sbfiss i/p

SILTSTONE: dom olv
gy-brnsh gy, tr med lt gy, non
calc, tr v f aren, arg i/p grd to
SLTY CLYST, tr gysh blk
carb spks grd to CARB
SLTST, tr v f glauc grs, tr
micmic, tr dissem pyr,
sft-dom frm, r mod hd,
amor-sbblky, sbfiss i/p

SILTSTONE: dom olv
gy-brnsh gy, tr med lt gy, non
calc, tr v f aren, arg i/p grd to
SLTY CLYST, tr slt gysh blk
carb spks, tr v f glauc grs,
tr micmic, tr dissem pyr,
sft-dom frm, r mod hd,
amor-sbblky, sbfiss i/p

SANDSTONE:clr-trnsl, tr v lt
gy, v f-crs, dom f, mod srt,
sbang-sbrndd, tr-com lt
brnsh gy argl mtrx, v disp,
wk pyr cmt on crs grs, wk sil

