



INTEQ

Company : 3D Oil Ltd

Well : Wardie-1

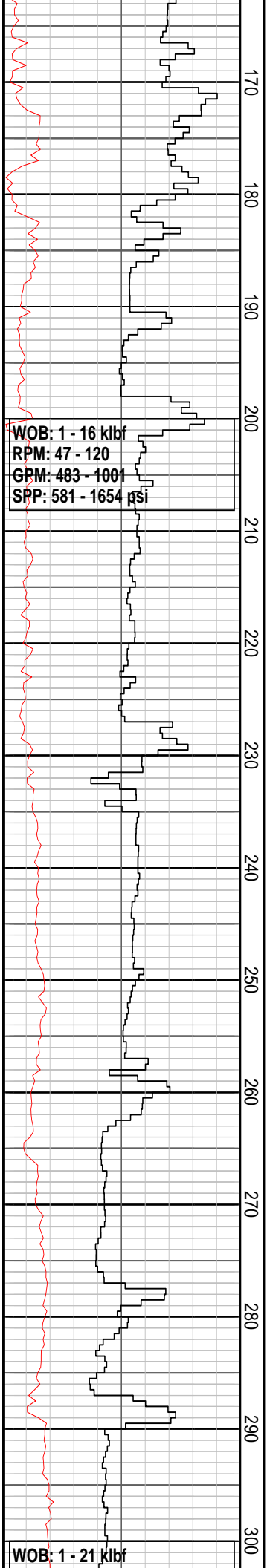
Interval : 66.00 - 1788.90 meters

Created : 22/May/2008 11:17:12 PM



FORMATION EVALUATION LOG

Drilling Rate		MD meters 1:500	TVDR meters	Cuttings Lithology	Oil Show	Visual Inferred Porosity	Gas Data		Chromatograph Data		Calcmety	Interpreted Lithology	Lithology Description	
ROP (m/hr)							Gas Hydrocarbon Avg %		Methane ppm					
200	40	20			P F G		0.01	0.1	1	10	1	Ethane ppm	100000	
180	36	18					0.1	1	10	1000	1	Propane ppm	100000	
160	32	16					OHMM				1	iso-Butane ppm	100000	
140	28	14					0.1	1	10	1000	1	n-Butane ppm	100000	
120	24	12					OHMM				1	iso-Pentane ppm	100000	
100	20	10									1	n-Pentane ppm	100000	
80	16	8												
60	12	6												
40	8	4												
20	4	2												
WEIGHT ON BIT														
ROP (m/hr)														
Gamma Ray														
GAPI														
<div>RB1: 660 mm (26") with 914 mm (36") H/Opener Type: Rock / Reed Y11C Jets: 3x22, 1x16 Depth In: 76.8 m Depth Out : 136.0 m Drilled 59.2 m in 2.3 hrs Grade: 1-1-WT-A-NB-I-RR-TD</div>														
<div>Set 30" x 20" CSG @ 133.0 mMDRT</div>														
<div>11/05/08</div>														
<div>NB2: 444 mm (17.5") Type: Rock / Hughes MXL T1V Jets: 3x20 Depth In: 136.0 m Depth Out : 751.0 m Drilled 615 m in 6.7 hrs Grade: 1-1-NO-A-E-I-NO-TD</div>														
<div>13/05/08</div>														
RT - AHD: 38.0 mMDRT Water depth : 38.8 mMDRT RT - Seabed: 76.8 mMDRT														
Spud Wardie-1 at 1930hrs on 10/05/2008														
Survey @ 82.5 mMDRT Incl: 1.90° Azi: 317.51° TVD: 82.5 m														
Drill with sea water and hi-vis sweeps, returns to seabed from 76.8 m to 136 mMDRT														
Survey @ 102.5 mMDRT Incl: 1.69° Azi: 316.58° TVD: 102.5 m														
914 mm (36") Section TD @ 136.0 mMDRT on 11/05/2008														
Survey @ 134.6 mMDRT Incl: 2.03° Azi: 330.59° TVD: 134.6 m														



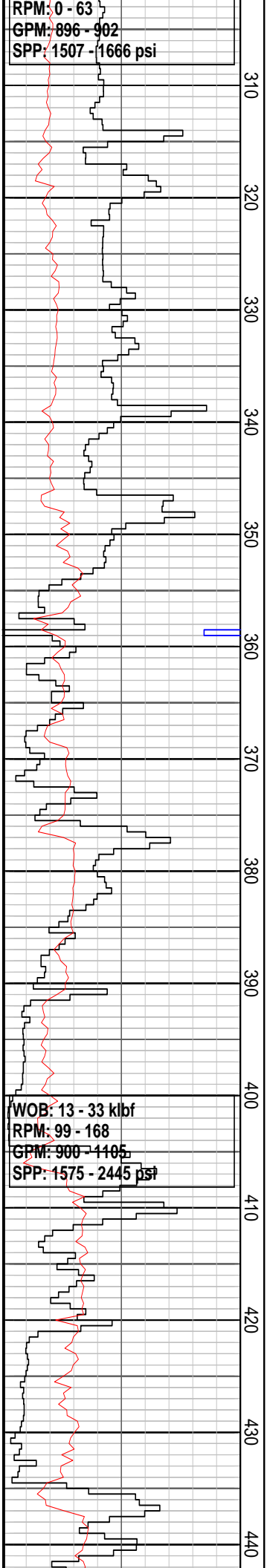
Survey @ 174.15 mMDRT
Incl: 0.97° Azi: 331.19°
TVD: 174.1 m

Survey @ 202.30 mMDRT
Incl: 1.06° Azi: 330.50°
TVD: 202.2 m

Drill with sea water and hi-vis
sweeps, returns dumped
overboard from CTU deck
from 136 m to 751.0 mMDRT

Survey @ 260.44 mMDRT
Incl: 2.12° Azi: 269.17°
TVD: 260.4 m

Survey @ 290.09 mMDRT
Incl: 5.23° Azi: 252.00°
TVD: 289.9 m



Drill with sea water and hi-vis sweeps, returns dumped overboard from CTU deck from 136 m to 751.0 mMDRT

Survey @ 319.76 mMDRT
Incl: 8.62° Azi: 244.27°
TVD: 319.4 m

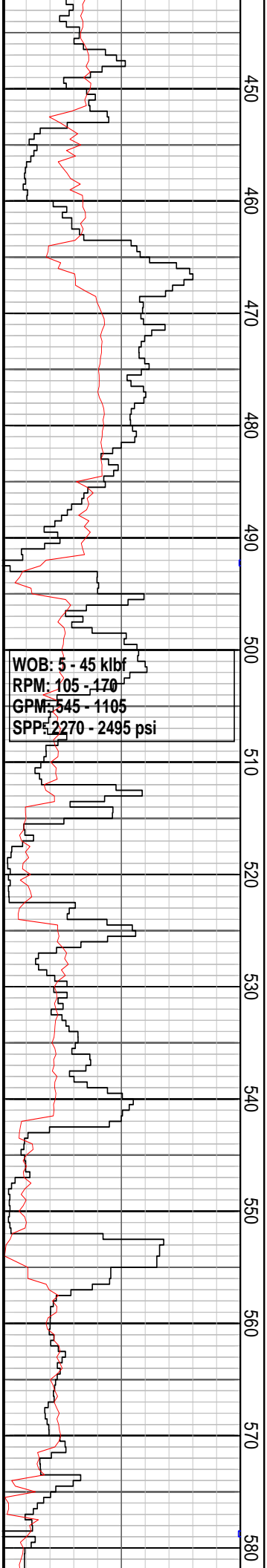
Survey @ 349.23 mMDRT
Incl: 11.69° Azi: 243.65°
TVD: 348.4 m

Survey @ 378.56 mMDRT
Incl: 14.54° Azi: 243.39°
TVD: 377.0 m

Drill with sea water and hi-vis sweeps, returns dumped overboard from CTU deck from 136 m to 751.0 mMDRT

Survey @ 408.2 mMDRT
Incl: 16.62° Azi: 238.69°
TVD: 405.5 m

Survey @ 437.65 mMDRT
Incl: 18.41° Azi: 234.18°
TVD: 433.6 m



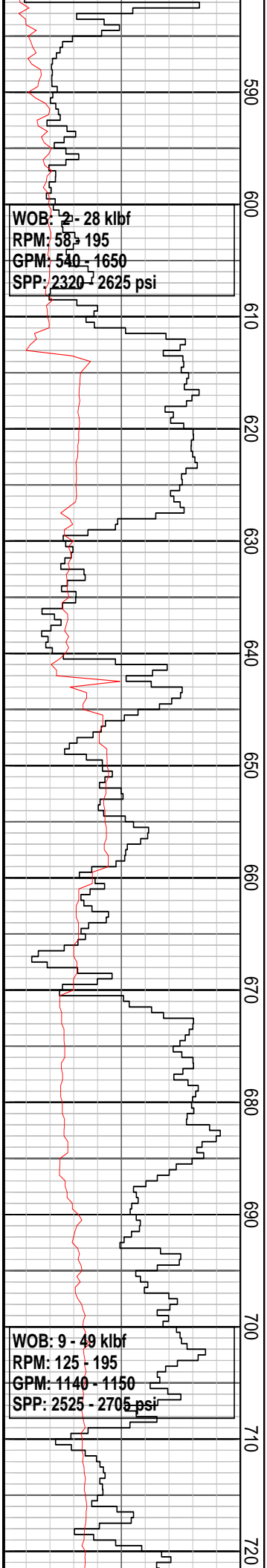
Survey @ 466.98 mMDRT
Incl: 21.11° Azi: 233.22°
TVD: 461.2 m

Survey @ 496.44 mMDRT
Incl: 24.52° Azi: 235.86°
TVD: 488.3 m

Drill with sea water and hi-vis
sweeps, returns dumped
overboard from CTU deck
from 136 m to 751.0 mMDRT

Survey @ 525.34 mMDRT
Incl: 27.44° Azi: 238.00°
TVD: 514.3 m

Survey @ 555.68 mMDRT
Incl: 29.78° Azi: 239.10°
TVD: 541.0 m



Survey @ 585.40 mMDRT
Incl: 28.02° Azi: 239.82°
TVD: 567.0 m

Drill with sea water and hi-vis
sweeps, returns dumped
overboard from CTU deck
from 136 m to 751.0 mMDRT

Survey @ 614.89 mMDRT
Incl: 29.13° Azi: 240.0°
TVD: 592.9 m

Survey @ 644.23 mMDRT
Incl: 31.31° Azi: 240.28°
TVD: 618.2 m

Survey @ 674.32 mMDRT
Incl: 33.98° Azi: 240.54°
TVD: 643.6 m

Drill with sea water and hi-vis
sweeps, returns dumped to
seabed from CTU deck from
136 m to 751.0 mMDRT

Survey @ 703.79 mMDRT
Incl: 34.90° Azi: 240.07°
TVD: 667.9 m

Survey @ 722.54 mMDRT
Incl: 34.35° Azi: 239.86°
TVD: 683.3 m

444 mm (17.5") Section TD @
751.0 mMDRT on 13/05/2008

CALCARENITE: lt olv gy, olv
gy i/p, mn r wh-pa yel, mod
hd-hd, v f-crs, ang-sbang,
trns-op sparry calc, mn r slt,
mn r rndd f sd i/p, mn r blk lit,
mn r glau, tr f shl frag, wl cmt,
p vis por.

CALCISILTITE: m gy-olv
gy-occ blk, sft-hd, v calc,
mn r-com clas slt-f sd i/p, p
inf por.

SAND: loose qtz, f-m gr, mod
srt, sbrndd-rndd, trns-p trnsl
qtz, mn r crs-v crs rndd
clr-frstd qtz, tr pyr, p inf por.

MW: 1.07 sg	FV: 57
PV: 11	YP: 18
Gels: 7/8/10	PH: 9.5

Survey @ 802.80 mMDRT
Incl: 32.02° Azi: 241.09°
TVD: 750.5 m

CALCARENITE: lt olv gy-olv
gy i/p, mn r wh-pa yel, mod
hd-hd, v f-crs, ang-sbang,
trns-op sparry calc, com
clas slt, mn r rndd f sd i/p,
mn r blk lit, mn r glau, tr f shl
frag, wl cmt, p vis por.

Survey @ 831.50 mMDRT
Incl: 30.76° Azi: 239.33°
TVD: 775.0 m

CALCISILTITE: m gy, olv gy,
occ blk, sft, mn r hd, v calc,
mn r-com clas slt-f sd i/p, p
vis por.

Survey @ 861.51 mMDRT

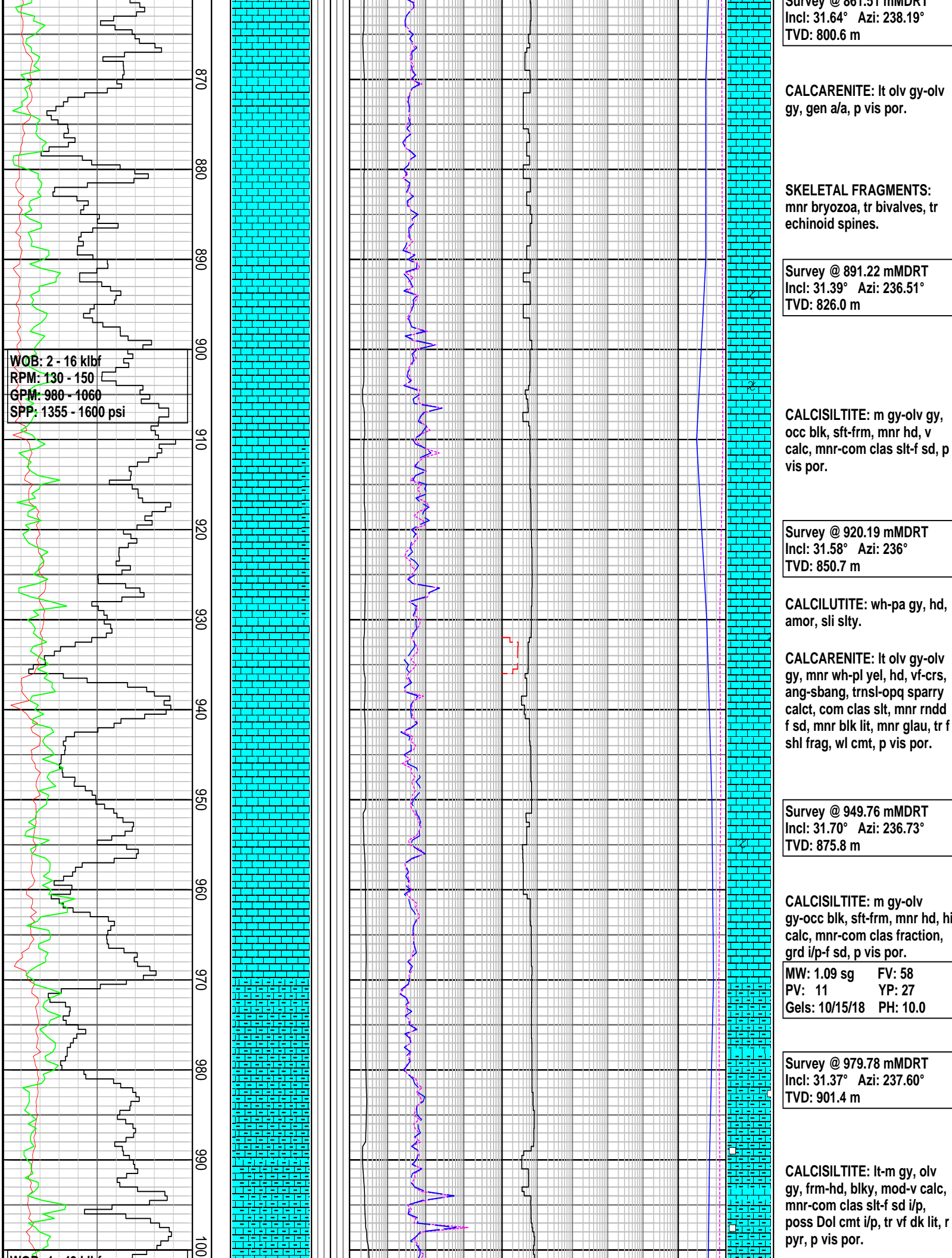
Mud Resistivity @ 751.0 m
Rmf= 0.125 @ 23.5°C
Rm=0.134 @ 24.0°C
Rmc=0.189 @ 24.3°C

340 mm (13-3/8") CSG at 747.2
mMDRT, FIT at 754m, 1.57 sg
EMW. No Leak-off.

14/05/08

NB3: 311mm (12.25")
Type: PDC / Reed RSX
646M-A16
Jets: 3x15, 3x16
Depth In: 751.0 m
Depth Out : 1766.0 m
Drilled 1015.0 m in 19.4 hrs
Grade: 3-3-WT-A-X-1-CT-TD

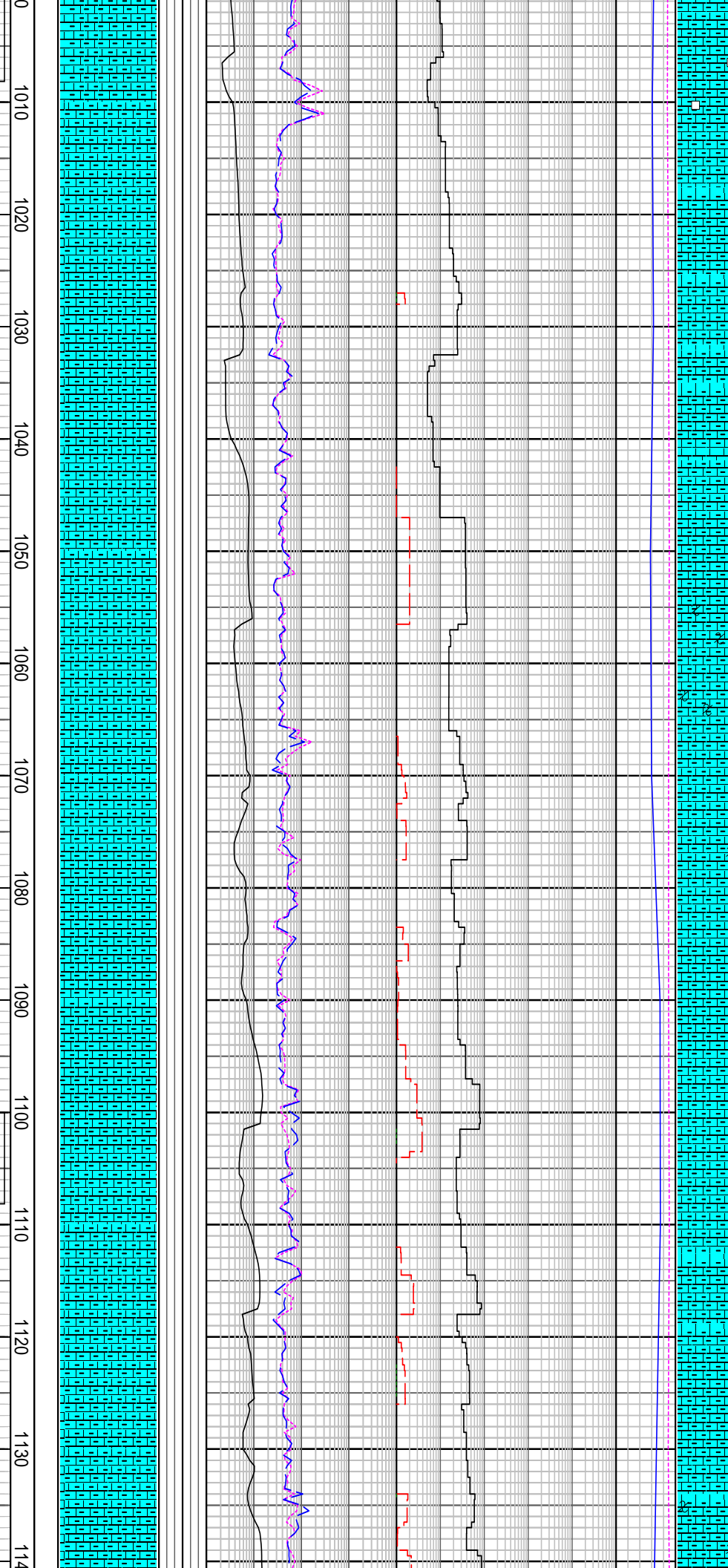
WOB: 1 - 37 kbf
RPM: 45 - 186
GPM: 910 - 1150
SPP: 1105 - 2680 psi



WOB: 4 - 43 kibr
RPM: 130 - 170
GPM: 985 - 1060
SPP: 1420 - 1560 psi

Mud Resistivity @ 1083.0 m
Rmf=0.115 @ 19.8°C
Rm=0.128 @ 20.4°C
Rmc=0.199 @ 20.7°C

WOB: 9 - 36 kibr
RPM: 130 - 170
GPM: 960 - 1060
SPP: 1350 - 1700 psi



Survey @ 1009.21 mMDRT
Incl: 31.56° Azi: 240.47°
TVD: 926.5 m

CALCARENITE: lt olv gy-olv
gy i/p, mnr wh-pa yel, mod
hd-hd, v f-f, ang-sbang, trnsf
to op sparry calcite, mnr slt,
mnr blk lit, v calc, wl cmt, pr
vis por.

Survey @ 1039.05 mMDRT
Incl: 31.64° Azi: 239.79°
TVD: 951.9 m

CALCILUTITE: wh-pa gy, hd,
amor, sli slty.

CALCISILTITE: lt-m gy, olv
gy, gen a/a, p vis por.

Survey @ 1066.59 mMDRT
Incl: 31.64° Azi: 241.83°
TVD: 975.4 m

CALCARENITE: lt olv gy-olv
gy i/p, gen a/a, tr bry frag, p
vis por.

Survey @ 1096.55 mMDRT
Incl: 32.01° Azi: 242.11°
TVD: 1000.8 m

CALCISILTITE: lt-m gy, olv
gy, frm-hd, blk, mod-v calc,
mnr-com clas slt-f sd i/p,
poss Dol cmt i/p, tr vf dk lit, r
pyr, p vis por.

Survey @ 1125.94 mMDRT
Incl: 32.34° Azi: 242.75°
TVD: 1025.70 m

CALCARENITE: lt olv gy-olv
gy i/p, mnr wh-pl yel, mod
hd-hd, vf-f sparry calct, a/a,

mnr blk lit, tr bry frag, tr
foram, wl cmt, p vis por.

Survey @ 1155.71 mMDRT
Incl: 32.17° Azi: 242.53°
TVD: 1050.9 m

CALCILUTITE: wh, lt olv
gy-olv gy, sft frm, occ hd,
amor, sli slty.

MW: 1.10 sg FV: 55
PV: 13 YP: 28
Gels: 11/17/21 PH: 9.5

Survey @ 1184.60 mMDRT
Incl: 32.35° Azi: 243.98°
TVD: 1075.3 m

CALCISILTITE: olv gy, mnr
gy olv, frm-mod hd, blk, y,
com dk carb spks, r dissem
pyr, r subhed sparry calct
xtals, tr m gy, hd, sbfis, w/
abd micr xln pyr, p vis por.

Survey @ 1214.81 mMDRT
Incl: 32.18° Azi: 244.06°
TVD: 1100.9 m

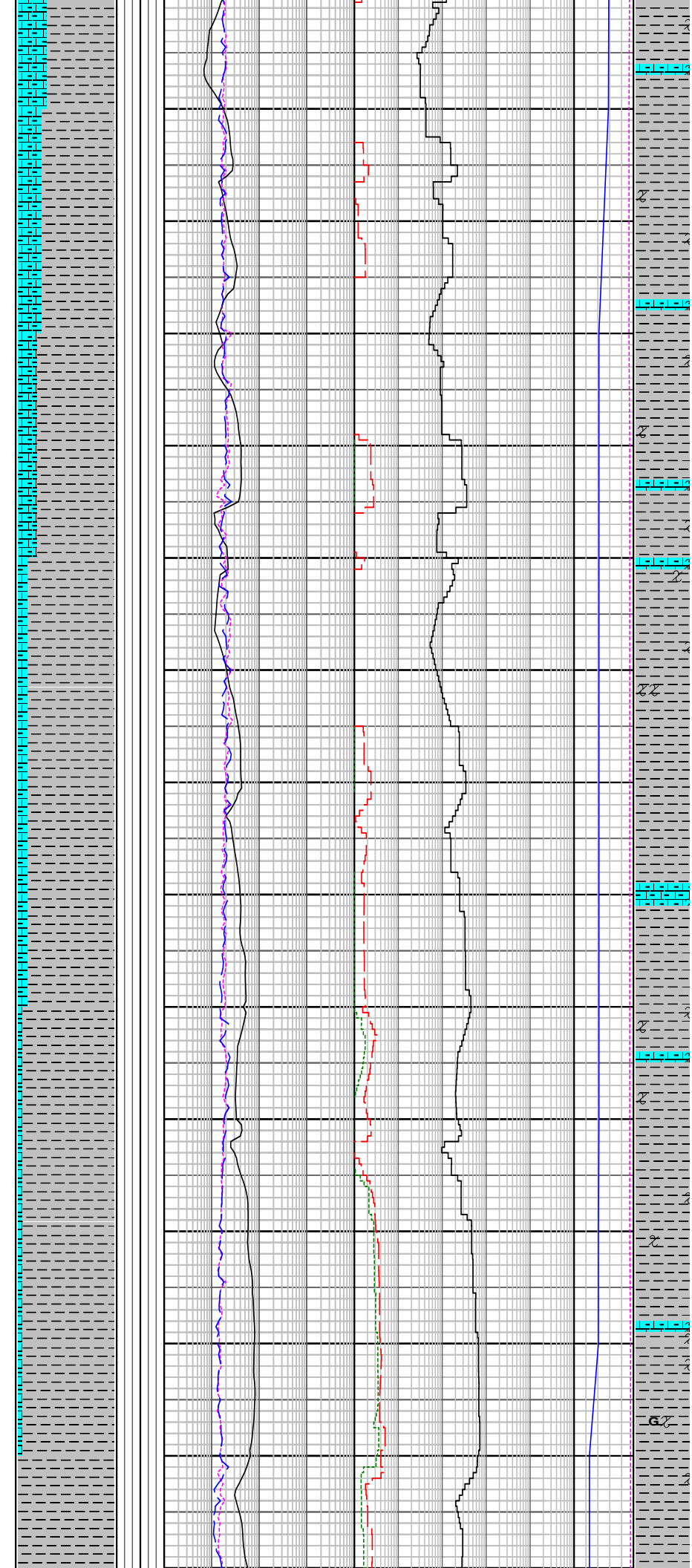
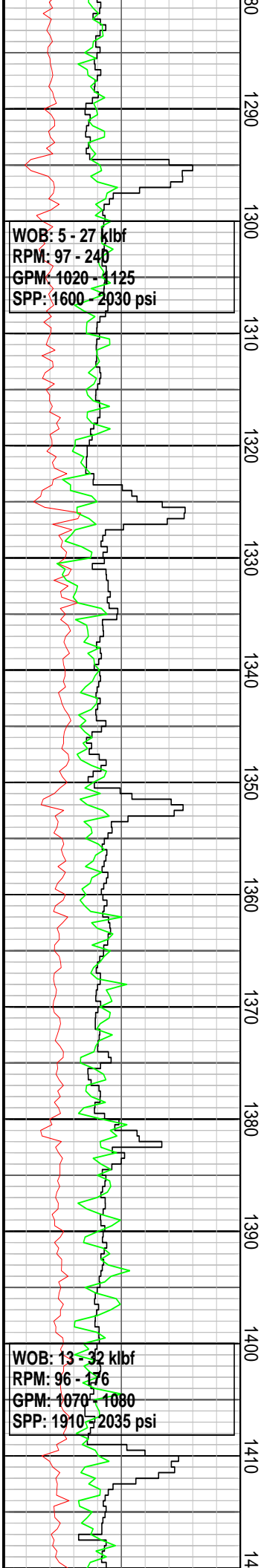
CALCILUTITE: yel gy-lt olv
gy, frm, disp i/p, sbblk-sbfis,
tr pyr, tr glau, tr foram.

Survey @ 1244.86 mMDRT
Incl: 30.73° Azi: 243.07°
TVD: 1126.5 m

CALCISILTITE: olv gy, mnr
gy olv, frm-mod hd, blk, y,
com dk carb spks, r dissem
pyr, r subhed, sparry calct
xtals, tr foss, p vis por.

Survey @ 1274.25 mMDRT
Incl: 29.50° Azi: 243.74°
TVD: 1151.9 m

WOB: 3 - 29 klbf
RPM: 125 - 240
GPM: 1000 - 1050
SPP: 1550 - 1800 psi



CALCILUTITE: lt olv gy-olv gy, gn gy, frm-mod hd, disp, sbblky-sbfiss, tr pyr, tr f glau (pel & nod), tr bry, tr foram, less calc & grd to MARL.

Survey @ 1303.82 mMDRT
Incl: 28.32° Azi: 243.43°
TVD: 1177.8 m

CALCISILTITE: olv gy, gn gy, frm-mod hd, blk, arg, r foram, r pyr, tr bry, grd to CLCLUT i/p, p vis por.

Survey @ 1333.24 mMDRT
Incl: 26.97° Azi: 243.84°
TVD: 1203.9 m

CALCILUTITE: gn gy, olv gy i/p, frm, disp, blk, sli more arg, sbblky-sbfis, r-com foram, tr pyr, tr glau, grd to MARL.

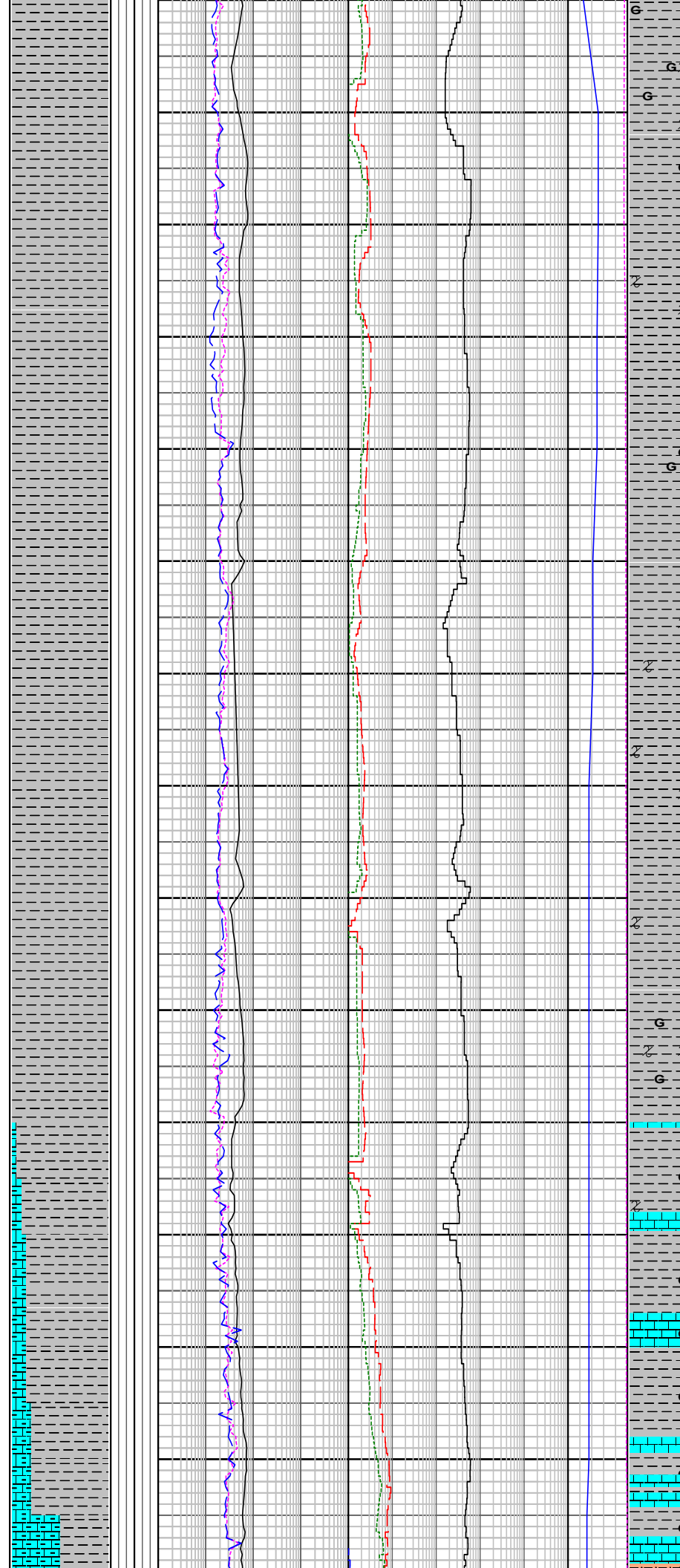
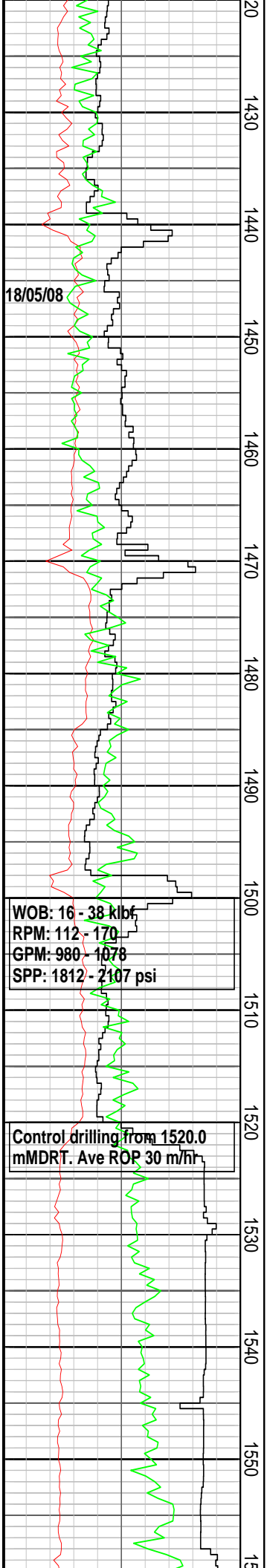
Survey @ 1363.33 mMDRT
Incl: 25.76° Azi: 244.51°
TVD: 1230.8 m

CALCISILTITE: olv gy, frm-hd, blk, micr xln calct, p vis por.

MW: 1.12 sg FV: 58
PV: 13 YP: 30
Gels: 13/18/22 PH: 9.5

Survey @ 1392.32 mMDRT
Incl: 24.64° Azi: 245.10°
TVD: 1257.1 m

CALCILUTITE: gn gy, r m gy, frm-mod hd, sbblky-sbfis, arg, disp i/p, com foram, tr pyr, grd to calc CLST.



Survey @ 1421.66 mMDRT
Incl: 23.41° Azi: 245.94°
TVD: 1283.9 m

Added sized CaCO3 to mud system from 1425.0 mMDRT on 17-May-08 until TD

CALCILUTITE: gen a/a, grd to calc CLST, tr vf glau, tr foram.

Survey @ 1451.54 mMDRT
Incl: 21.93° Azi: 245.34°
TVD: 1311.4 m

CALCILUTITE: gn gy, frm, disp, arg, sbblky-sbfis, tr-r vf glau, tr pyr strk, tr foram, grd to calc CLST.

Survey @ 1481.24 mMDRT
Incl: 19.28° Azi: 245.06°
TVD: 1339.2 m

CALCILUTITE: a/a, grd to calc CLST, mnv vf-m glau, tr foram, sli slty i/p.

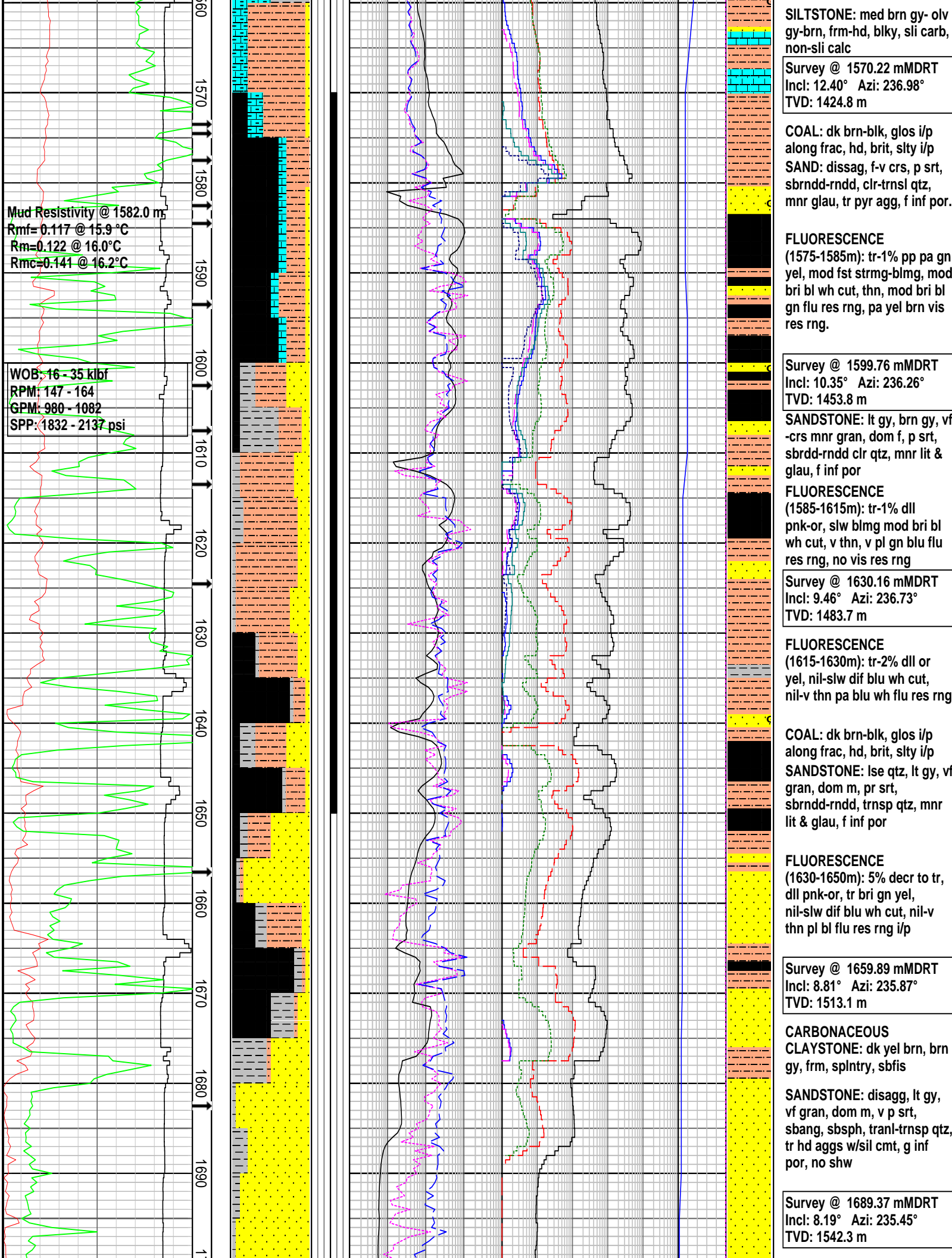
Survey @ 1511.19 mMDRT
Incl: 16.74° Azi: 243.33°
TVD: 1367.7 m

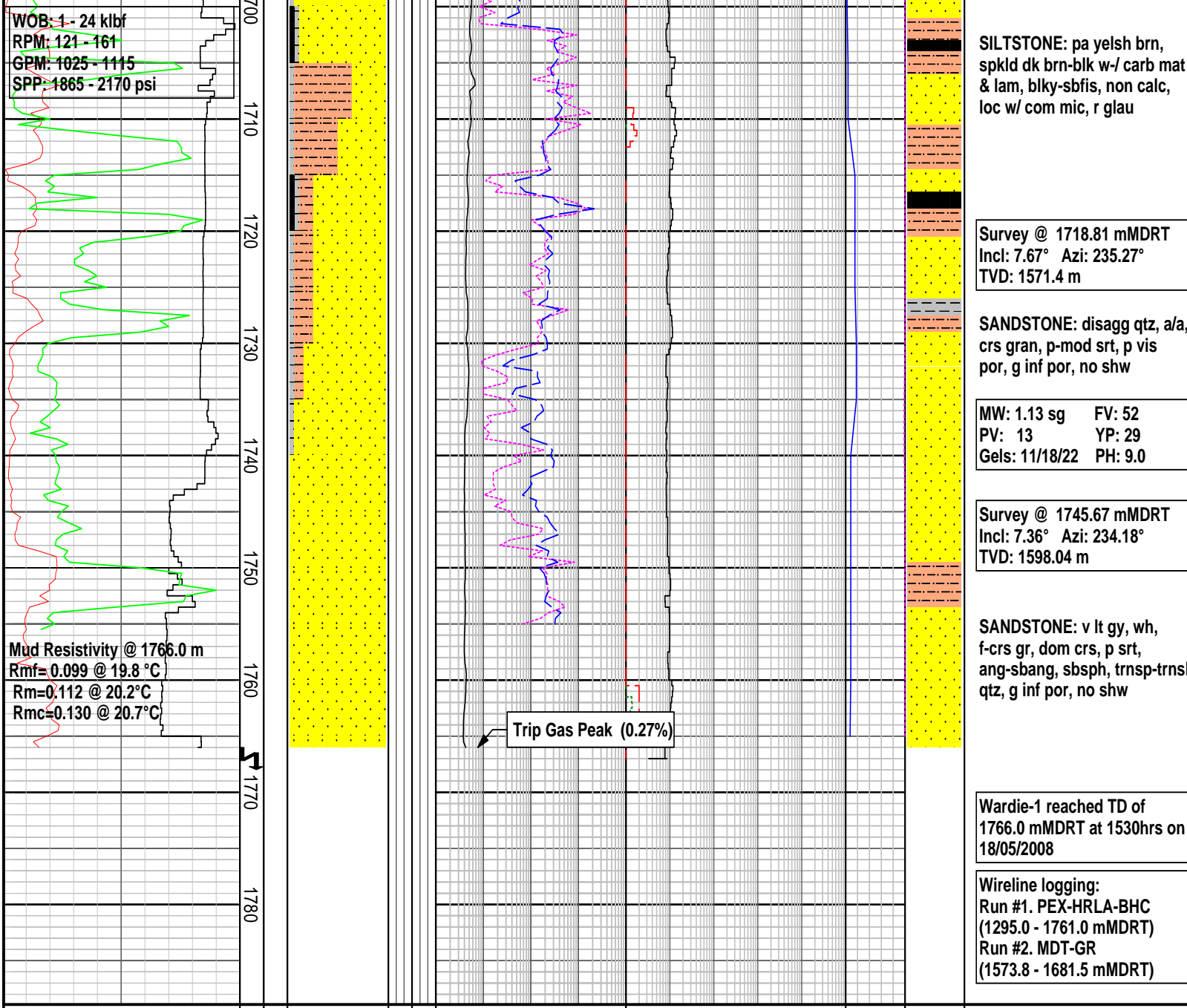
CALCAREOUS CLAYSTONE:
lt gn gy, olv gy, frm-mod hd, sbblky-sbfis, mod-v calc, mnv glau (pel & nod), tr foram, sli slty

Survey @ 1540.85 mMDRT
Incl: 14.49° Azi: 240.57°
TVD: 1396.3 m

CALCAREOUS CLAYSTONE:
a/a, w/com-abd glau, tr foss

MW: 1.12 sg FV: 54
PV: 15 YP: 30
Gels: 13/18/22 PH: 9.5





FORMATION EVALUATION LOG

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Drilling Rate		MD meters 1:500	TVD meters	Cuttings Lithology	Visual Inferred Porosity	Gas Data		Chromatograph Data		Calcmtery	Interpreted Lithology	Lithology Description		
ROP (m/hr)						Gas Hydrocarbon Avg %		Methane ppm						
200	20					0.01	0.1	1	10	1	100000		1	100000
180	40					Resistivity Shall		1000		1	Ethane ppm		100000	CaCO3 %
160	60					OHMM		1000		1	Propane ppm		100000	MgCO3 %
140	80	Resistivity Deep		1000		1	iso-Butane ppm	100000	100 80 60 40 20					
120	100	OHMM				1	n-Butane ppm	100000						
100	120					1	iso-Pentane ppm	100000						
80	140					1	n-Pentane ppm	100000						
60	160													
40	180													
20	200													
WEIGHT ON BIT		20		40		60		80		100				
ROP (m/hr)		220		240		260		280		300				
Gamma Ray		400		380		360		340		320				
GAPI		0		200										