



INTEQ

Company : 3D Oil Ltd
Well : Wardie-1
Interval : 67.00 - 1790.04 meters
Created : 18/May/2008 9:42:02 PM



FORMATION EVALUATION LOG

Drilling Rate ROP (m/hr)	MD meters 1:500	TVDRT meters	Cuttings Lithology	Visual Inferred Porosity P F G	Oil Show P F G	Gas Data	Chromatograph Data	Calciometry CaCO3 % MgCO3 %	Interpreted Lithology	Lithology Description
						Gas Hydrocarbon Avg %	Methane ppm			

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

Set 30" x 20" Csg @ 133.0
mMDRT

NB2: 444 mm (17.5")
Type: Rock / Hughes MXL
11V
Jets: 3x20
Depth In: 136.0 m
Depth Out : 751.0 m
Drilled 615 m in 6.7 hrs
Grade: 1-1-NO-A-0-I-NO-TD

WOB: 1 - 16 klbf
RPM: 47 - 120
GPM: 483 - 1001
SPP: 581 - 1654 psi

RT - AHD: 38.0 mMDRT
Water depth : 38.8 mMDRT
RT - Seabed: 76.8 mMDRT

Spud Wardie-1 at 1900hrs on
10/05/2008

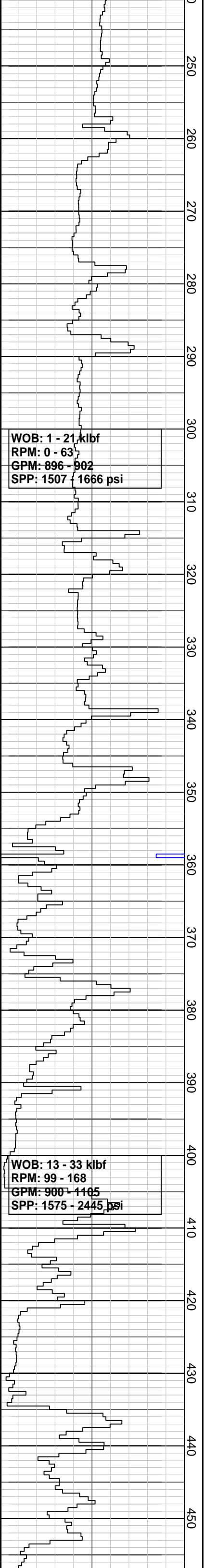
Drill with sea water and hi-vis
pills, returns to seabed from
76.8 m to 751.0 mMDRT

914 mm (36") Section TD @
136.0 mMDRT on 11/05/2008

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: 202.3 m

Drill with sea water and hi-vis
pills, returns to seabed from
76.8 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 pills, returns to seabed from 76.8 m to 751.0 mMDRT

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

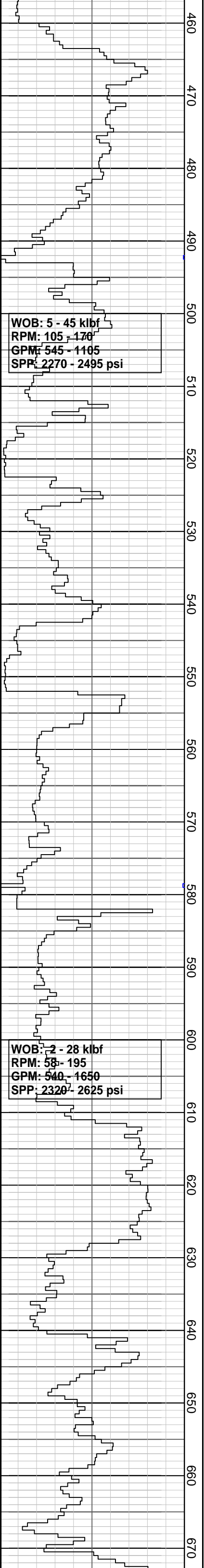
Survey @ 349.23 mMDRT
Incl: 11.69° Azi: 243.65°
TVD: 348.4 m

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

Drill with sea water and hi-vis pills, returns to seabed from 76.8 m to 751.0 mMDRT

Survey @ 408.2 mMDRT
Incl: 16.62° Azi: 238.68°
TVD: 405.5 m

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



WOB: 5 - 45 kbf
RPM: 105 - 170
GPM: 545 - 1105
SPP: 2270 - 2495 psi

WOB: 2 - 28 kbf
RPM: 58 - 195
GPM: 540 - 1650
SPP: 2320 - 2625 psi

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 pills, returns to seabed from 76.8 m to 751.0 mMDRT

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

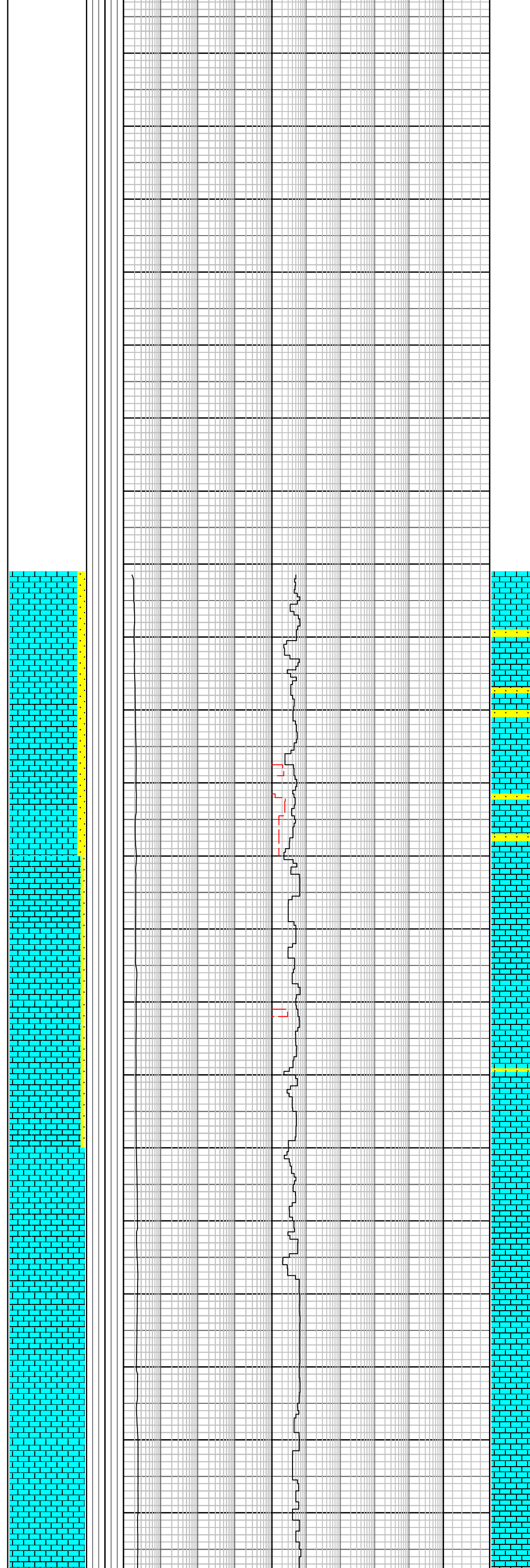
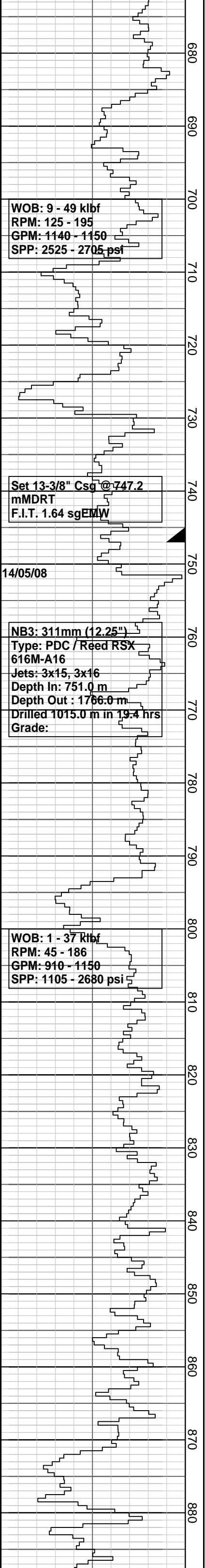
Survey @ 555.68 mMDRT
Incl: 29.78° Azi: 239.10°
TVD: 541.0 m

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

Drill with sea water and hi-vis pills, returns to seabed from 76.8 m to 751.0 mMDRT

Survey @ 614.88 mMDRT
Incl: 29.13° Azi: 240.0°
TVD: 582.8 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 pills, returns to seabed from 76.8 m to 751.0 mMDRT

Survey @ 703.78 mMDRT
Incl: 34.90° Azi: 240.07°
TVD: 667.8 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: It olv gy, olv gy i/p, mnr wh-pa yel, mod hd-hd, v f-crs, ang-sbang, trnsl-op sparry calc, min slt, mnr rndd f sd i/p, mnr blk lit, mnr glau, tr f shl frag, wl cmt, p

CALCISILTITE: m gy-olv gy-occ blk, sft-hd, hi calc, mnr-com clas slt fraction, grd i/p to f sd

LOOSE SAND: f-m, mod srt, sbrndd-rndd, trnsl-trnsp qtz, mnr crs-v crs rndd clr-fros qtz

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

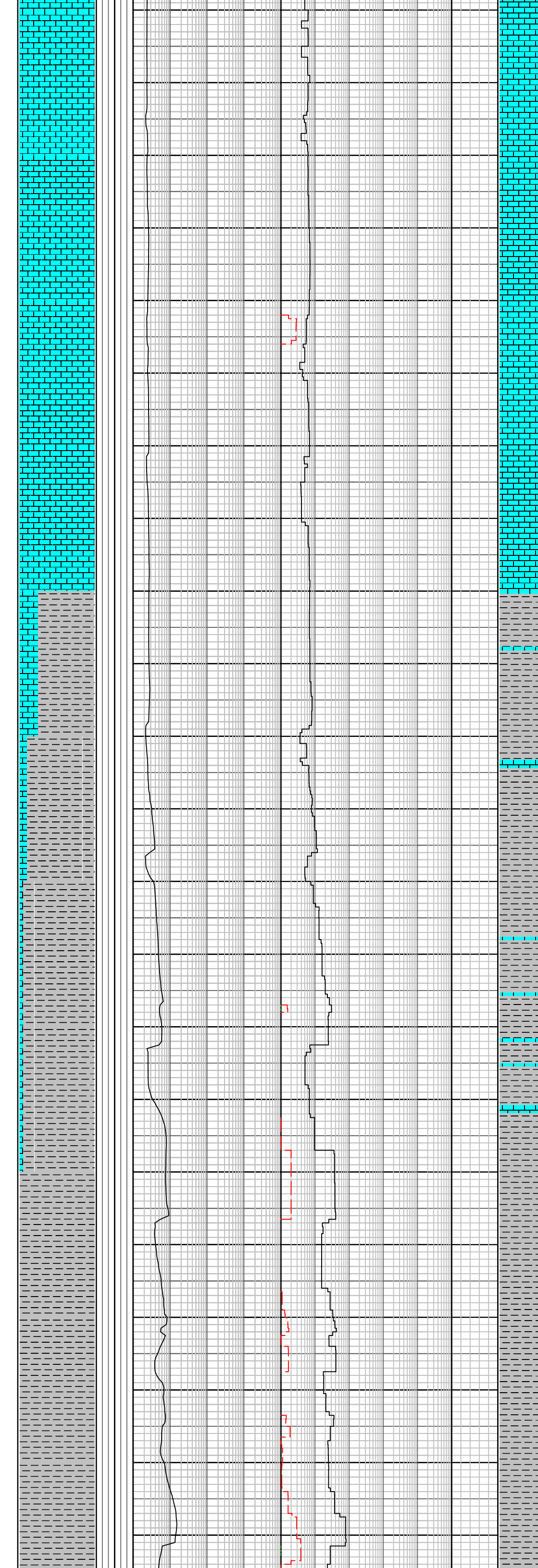
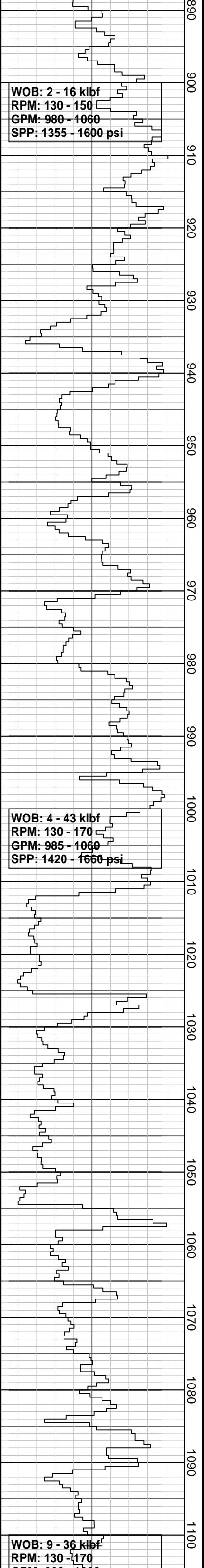
CALCARENITE: It olv gy-olv gy i/p, mnr wh-pa yel, mod hd-hd, v f-crs, ang-sbang, trnsl-op sparry calc, com clas slt, mnr rndd f sd i/p, mnr blk lit, mnr glau, tr f shl frag, wl cmt, p vis por

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

CALCISILTITE: m gy-olv gy-occ blk, sft-hd, hi calc, mnr-com clas slt fraction, grd i/p-f sd

Survey @ 861.51 mMDRT
Incl: 31.64° Azi: 238.19°
TVD: 800.6 m

CALCARENITE: It olv gy-olv gy i/p, mnr wh-pa yel, hd, crushed i/p, v f-crs, ang-sbang, trnsl-op sparry calc, com clas slt, mnr rndd f sd i/p, mnr blk lit, mnr glau, tr shl frag, wl cmt, p vis por



Survey @ 891.22 mMDRT
Incl: 31.39° Azi: 236.51°
TVD: 826.0 m

CALCILUTITE: wh, hd, amor

CALCISILTITE: m gy-olv
gy-occ blk, sft-frm, mnr hd, hi
calc, mnr-com clas fraction,
grd i/p to f sd

Survey @ 920.19 mMDRT
Incl: 31.58° Azi: 236°
TVD: 850.7 m

CALCILUTITE: wh-pa gy, hd,
amor, sli slt

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

Survey @ 949.76 mMDRT
Incl: 31.70° Azi: 236.73°
TVD: 875.8 m

CALCISILTITE: m gy-olv
gy-occ blk, sft-frm, mnr hd, hi
calc, mnr-com clas fraction,
grd i/p-f sd

Survey @ 979.78 mMDRT
Incl: 31.37° Azi: 237.60°
TVD: 901.4 m

CALCISILTITE: pa-m gy, olv
gy, frm-hd, blk, mod-hi calc,
mnr com clas slt fraction, grd
i/p to f sd, poss Dol cmt
idicated by slower HCl
reaction, tr v f dk mafic grs, r
pyr

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, trnsi
to op sparry calcite, mnr slt,
mnr blk lit, hi calc, wl cmt, pr
vis por

Survey @ 1039.28 mMDRT
Incl: 31.64° Azi: 239.79°
TVD: 951.9 m

CALCILUTITE: wh-pa gy, hd,
amor, sli slt

CALCISILTITE: pa-m gy, olv
gy, frm-hd, blk, mod-hi calc,
mnr com clastic slt fraction,
grd i/p to f sd, poss Dol cmt
idicated by slower HCl
reaction, tr v f dk mafic grs, r
pyr

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

CALCARENITE: lt olv gy-olv
gy i/p, mnr wh-pa yel, mod
hd-hd, v f-f, ang-sbang, trnsi
to op sparry calcite, mnr slt,
mnr blk liths, hi calc, wl cmt,
pr vis por, tr bry frag

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

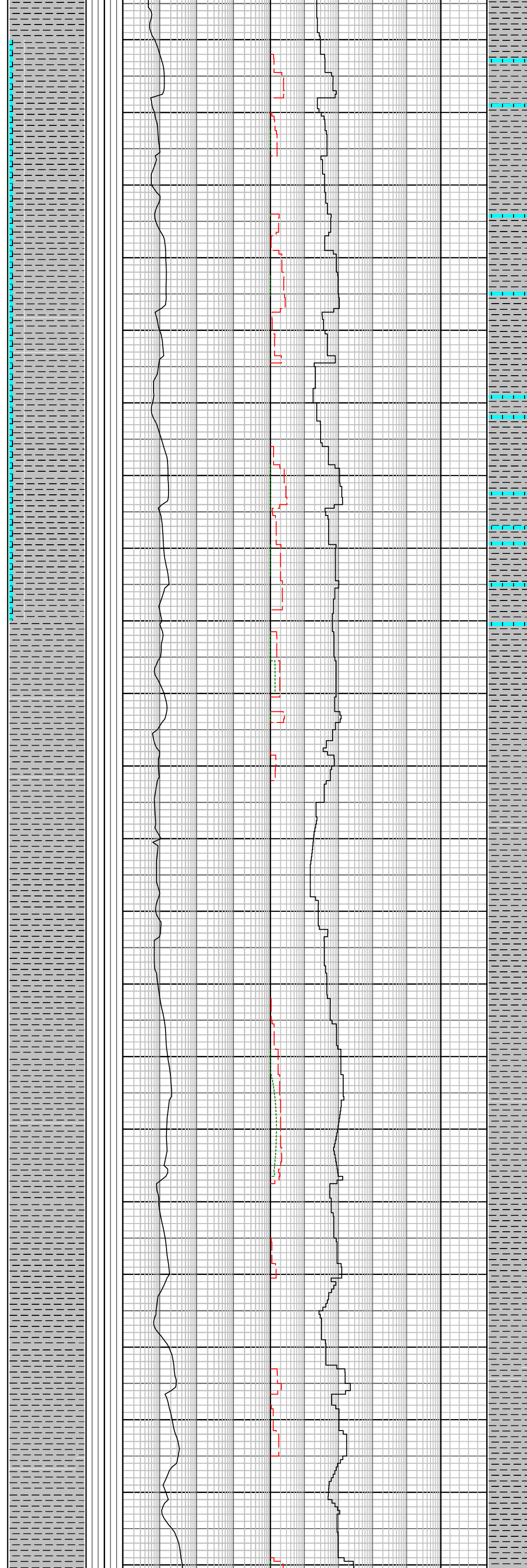
CALCISILTITE: pa-m gy, olv

GPM: 960 - 1060
SPP: 1350 - 1700 psi

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

WOB: 5 - 27 klbf
RPM: 97 - 240
GPM: 1020 - 1125
SPP: 1600 - 2030 psi

1110
1120
1130
1140
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1270
1280
1290
1300
1310
1320



CALCISILTITE: olv gy, frn-hd, blk, mod-hi calc, mnr com clastic slt fraction, grd i/p to f sd, poss Dol cmt idicated by slower HCl reaction, tr v f dk mafic grs, r pyr

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

CALCARENITE: lt olv gy-olv gy i/p, mnr wh-pa yel, mod hd-hd, v f-f, ang-sbang, trnsl to op sparry calcite, mnr slt, mnr blk liths, hi calc, wl cmt, pr vis por, tr bry frag, tr ech

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

CALCILUTITE: wh, pa-m olv gy, sft-frm, occ hd, amor, sli slt

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 gysh olv, frn-mod hd, blk, com dk spks of carb mat, r disse pyr, r blk calc sparry crystals, tr m gy, hd, sbfiss, w-/ abd micr xln pyr micr lam, tr pyr masses w-/ pyr in acicular form replacing probable echinoid spines

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

CALCILUTITE: v lt-m olv gy, frn, softening in wtr, sbbkly-sbbfis, w-/ r dk strk, tr pyr, tr glau, tr l forams, tr ech

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

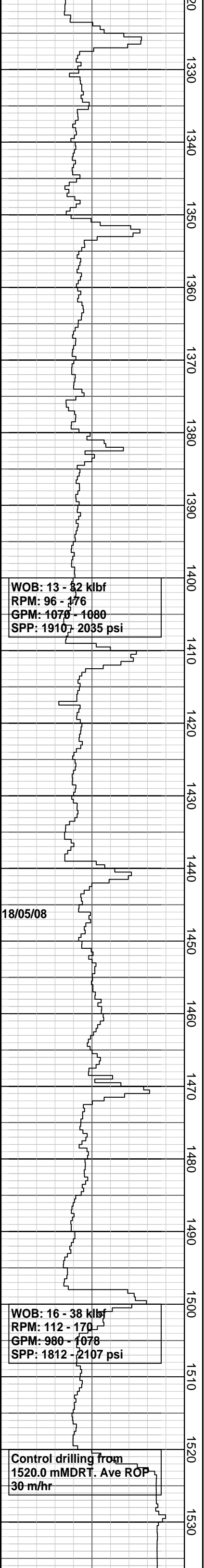
CALCISILTITE: olv gy, mnr gysh olv, frn-mod hd, blk, com dk spks of carb mat, r disse pyr, r blk calc sparry crystals, tr m gy, hd, sbfiss, w-/ abd micr xln pyr micr lam, tr pyr masses w-/ pyr in acicular form replacing probable echinoid spines

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

CALCILUTITE: v lt-m olv gy, frn, softening in wtr, sbbkly-sbbfis, w-/ r dk strk, tr pyr, v r f glau, tr l glau nod, tr l bry, benthic forams

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

CALCISILTITE: olv gy, gnsh gy, frn-mod hd, blk, sli more arg, r l forams, tr l bry frag



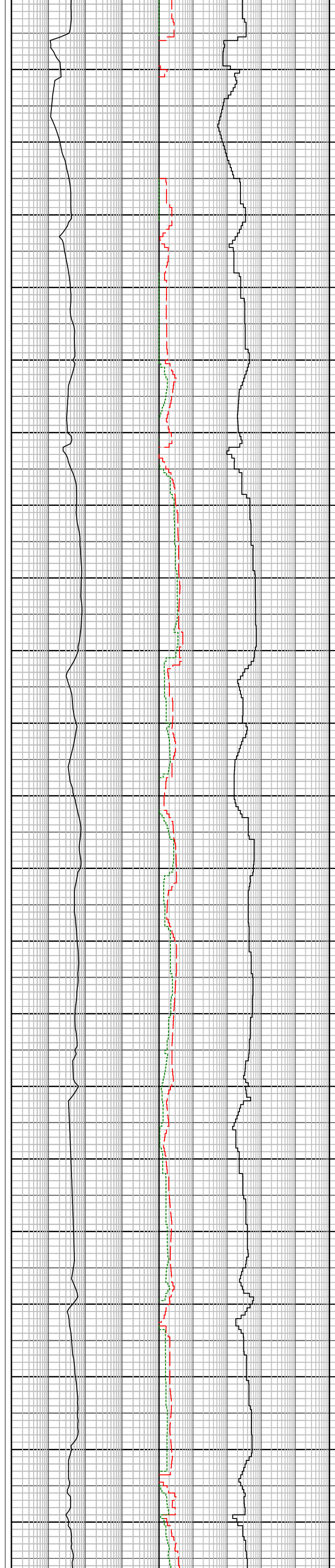
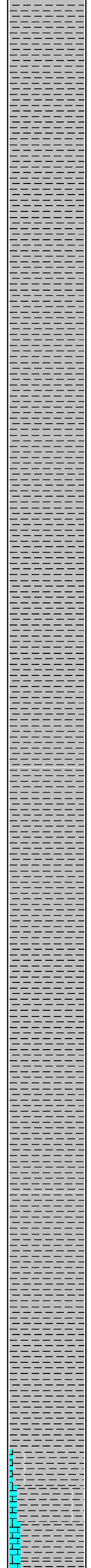
1330
1340
1350
1360
1370
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1390
1400
1410
1420
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1440
1450
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1470
1480
1490
1500
1510
1520
1530

WOB: 13 - 82 kbf
RPM: 96 - 176
GPM: 1076 - 1080
SPP: 1910 - 2035 psi

18/05/08

WOB: 16 - 38 kbf
RPM: 112 - 170
GPM: 980 - 1078
SPP: 1812 - 2107 psi

Control drilling from
1520.0 mMDRT. Ave ROP
30 m/hr



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

CALCILUTITE: v lt-m olv gy, frm, softening in wtr, sbbiky-sbbfis, w-/ r dk strk, tr pyr, v r f glau, tr l glau nod, tr l bry, l benthic forams, diverse range of taxa, r planktics

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

CALCISILTITE: olv gy, frm-hd, blk, abd micrln calcite

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: 245.94°
TVD: 1257.1 m

CALCILUTITE: v lt-m olv gy, frm, softening in wtr, sbbiky-sbbfis, w-/ r dk strk, tr pyr, v r f glau, tr l glau nod, tr l bry, l benthic forams, diverse range of taxa, tr pyr stks, r m dk gy, fis, hd calcilutite

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

Add CaCO3 to mud system at 1425.0 mMDRT on 17/05/08 at 2315hrs

CALCILUTITE: v lt-m olv gy, r m dk gy, frm, softening in wtr, sbbiky-sbbfis, w-/ r dk strk, tr pyr strk, v r f glau, tr l glau nod, tr l bry, l benthic forams, diverse range of tax

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

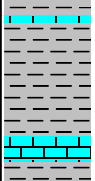
CALCILUTITE: v lt-m olv gy, r m dk gy, frm, softening in wtr, sbbiky-sbbfis, w-/ r dk strk, tr pyr strk

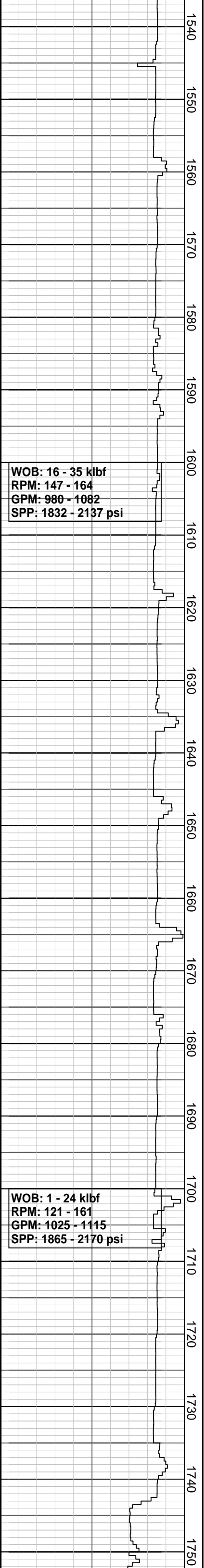
Survey @ 1481.24 mMDRT
Incl: 19.28° Azi: 245.06°
TVD: 1339.2 m

CALCILUTITE: v lt-m olv gy, r m dk gy, frm, softening in wtr, grad to CALC CLST, mnr v f to med glau, tr forams, sli slty i/p

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

CALCILUTITE: gnsh gy-olv gy, frm-mod hd, sbbiky-sbfis, arg, grad to mod CALC CLST, com v f to med glau, tr forams, sli slty i/p





WOB: 16 - 35 kbf
 RPM: 147 - 164
 GPM: 980 - 1082
 SPP: 1832 - 2137 psi

WOB: 1 - 24 kbf
 RPM: 121 - 161
 GPM: 1025 - 1115
 SPP: 1865 - 2170 psi

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

CALCILUTITE: lt gnsh gy-gy,
 sft-frm, amor-blky, arg, hi
 calc, com-abd dissem f glau
 pel i/p

SILTSTONE: med brn gy- olv
 gy-brn, frm-hd, blk, sli carb,
 non-sli calc

Survey @ 1570.22 mMDRT
 Incl: 12.40° Azi: 236.98°
 TVD: 1424.8 m

COAL: dk brn-blk, glos i/p
 along frac, hd, brit, sli i/p
 SANDSTONE: f-v crs, p srt,
 sbrndd-rndd clr-trnsl qtz, mnr
 glau, tr pyr clus, tr pyr qtz,
 mnr lit frag

FLUORESCENCE
 (1575-1585m): tr-1% pa gnsh
 yel pp, mod fst-fst blmg, mod
 bri-bri bl/wh cut, thn-mod
 wide mod bri, bl/gn fluor res
 rng, v pa tea, pa yel brn res
 col

Survey @ 1599.76 mMDRT
 Incl: 10.35° Azi: 236.26°
 TVD: 1453.8 m

SANDSTONE: lt-gnsh gy,
 vfU-cU, dom f, p srt,
 sbrdd-rndd clr qtz, mnr lit,
 mnr glau

FLUORESCENCE
 (1585-1615m): tr-1% dull,
 pksh or, slo blmg dull-mod
 bri bl/wh cut, v thn, v pa,
 gn/bl fluor res rng

Survey @ 1630.16 mMDRT
 Incl: 9.46° Azi: 236.73°
 TVD: 1483.7 m

FLUORESCENCE
 (1615-1630m): tr-2% dull or,
 yel, bri lt gn/yel pp i/p, nil-slo
 dif, bl/wh cut, nil-v thn, pa
 bl/wh fluor res rng

COAL: dk brn-blk, glos i/p
 along frac, hd, brit, sli i/p
 SANDSTONE: pa gy-brn gy,
 vfU-vcU, dom m, pr std,
 sbrndd-rndd, clr qtz, mnr lith,
 mnr calc grs, mnr glau, com
 sbang clr qtz gran

FLUORESCENCE
 (1635-1645m): tr-5% dull
 pksh/or, tr bri-bri gn/yel,
 pksh/or pp, nil-slo dif, bl/wh
 cut, nil-v thn, pa bl fluor res
 rng

Survey @ 1659.89 mMDRT
 Incl: 8.81° Azi: 235.87°
 TVD: 1513.1 m

CLAYSTONE: (carb) dk yelsh
 brn-brnsh gy, frm, elong,
 sbfis, com w-/ dk pol faces

SANDSTONE: pa gy,
 vfU-gran, dom mL-mU, v p
 srt, sbang, sbspheroidal,
 trans-trnsl qtz, tr aggs, hd, ti
 sil cmt w-/ dk brn stn

Survey @ 1689.37 mMDRT
 Incl: 8.19° Azi: 235.45°
 TVD: 1542.3 m

SILTSTONE: pa yelsh brn,
 spkid dk brn-blk w-/ carb mat
 & lam, blk-sbfis, non calc,
 loc w-/ com musc

Survey @ 1718.81 mMDRT
 Incl: 7.67° Azi: 235.27°
 TVD: 1571.4 m

CLAYSTONE: (calc) lt
 gy-gnsh gy, tr pa yelsh brn,
 frm-hd, mod-hi calc, slty

Survey @ 1745.67 mMDRT
 Incl: 7.36° Azi: 234.18°
 TVD: 1598.04 m

