



**INTEQ**

**INTEQ LOG SUITE**

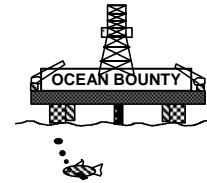
Formation Evaluation      Pressure Plot  
 Drilling Data Plot  
 Gas Ratio Plot

**ABBREVIATIONS**

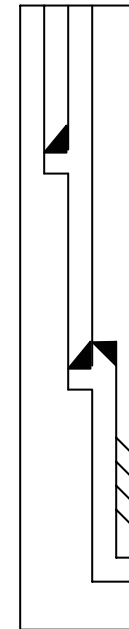
NB	New Bit	MD	Measured Depth
RB	Rerun Bit	GPM	Gallons per Min
CB	Core Bit	PP	Pump Pressure
WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
CR	Circulate Returns	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
BG	Background Gas	Sol	Solids %
WTG	Wiper Trip Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
POG	Pumps Off Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivity
SG	Swab Gas	TVD	True Vertical Depth

**LITHOLOGY SYMBOLS**

Calcarenite Ca	Calcsiltite Cs	Calclutite Cl	Glaucinite GlauC
Dolomite Dol	Marl Mrl	Conglomerate Cgl	Pyrite Pyr
Sandstone Sst	Siltstone Slst	Claystone Clst	Radiolaria
Mica Mic	Cement Cmt	Coal C	Calc Claystone CalcClst



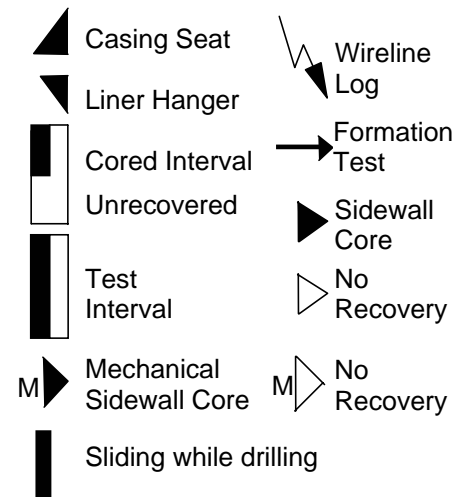
Permanent Datum – MSL  
 Sea level – 25m



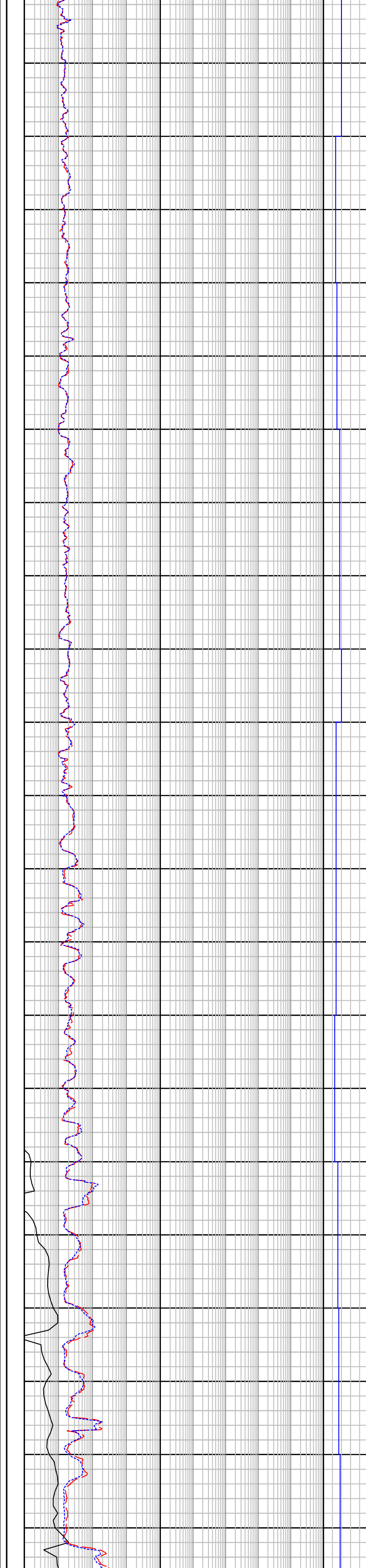
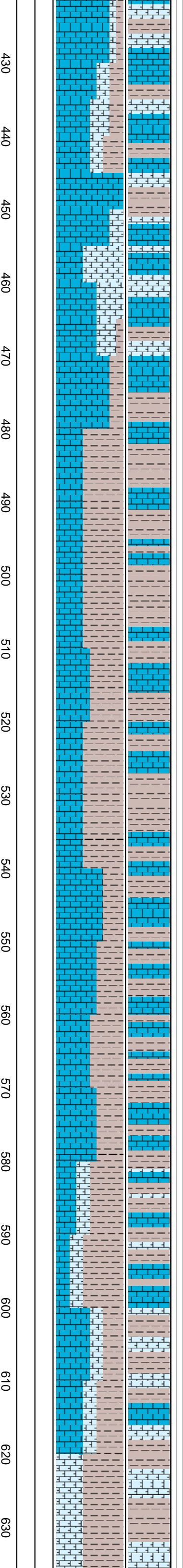
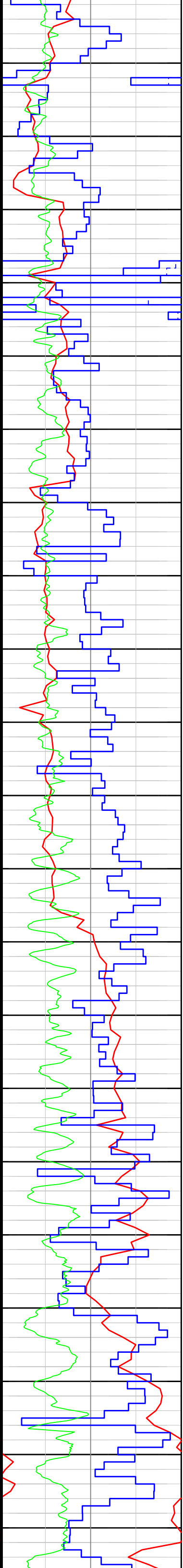
Seabed @ 53.1mMSL  
 Clean-out with Seawater  
 Kick off plug set & dressed in  
 Baleen-4 13.625" csg @  
 254.5m  
 12.25" hole to 1890m  
 Drilling Fluid:  
 Petrofree SOBM  
 9.625" Casing set at  
 1885.35m  
 8.5" hole to 2290mTD  
 Drilling Fluid:  
 5% KCl Baradrill-N  
 7.46" Liner with production  
 screens run to 2289.42m.  
 Hanger set at 1833.62m

**Company**            **OMV Australia**  
**Well**                 **Baleen-4**  
**Permit**              **VIC / L21**  
**Region**             **Gippsland Sub-Basin**  
**Designation**      **Horizontal Gas Producer**  
**Coordinates**      **038° 00' 20.99" S Lat**  
                           **148° 26' 34.42" E Long**  
**Ref Elevation**     **RT 25m**  
**Total Depth**      **2290mRT**  
**Contractor**       **Diamond Offshore General Co.**  
**Rig**                  **MODU Ocean Bounty**  
**Type**                **Semi-Submersible**

**LOG INTERVAL**  
**Depth**              **254mRT to 2290mRT**  
**Date**                **27<sup>th</sup> September – 22<sup>nd</sup> October 2004**  
**Scale**                **1:500**  
**Data Engineers**   **D. Hatton, T. Zelski**  
                           **A. MacQueen, D. Walsh**  
**Loggers**            **Ajitoro, A. Hurley**







sft - mod hd, sbbiky - blk, occ amorph, tr foss frag, tr arg mtx

**CALCAREOUS CLAYSTONE:** m gy - m dk gy, occ dk gy, sft - frm, rr mod hd, sbbiky - blk, tr carb mat

Survey @ 430.70m  
Incl:31.35deg  
Azi:242.55deg  
TVD:422.92m

Survey @ 468.29m  
Incl:38.80deg  
Azi:239.57deg  
TVD:453.53m

470 - 580 m MDRT  
**CALCARENITE:** off wh, v lt gy, frm-mod hd, f-m, occ crs, sbang-sbrnd, mod srt, tr arg mtx, fr vis por, n/shw  
**CALCAREOUS CLAYSTONE:** m gy-m dk, occ dk gy, sft, occ amor, sbbiky - blk, tr fos frag, tr carb mat

Survey @ 497.20m  
Incl:46.23deg  
Azi:239.87deg  
TVD:474.64m

Survey @ 535.75m  
Incl:54.20deg  
Azi:239.30deg  
TVD:499.33m

Survey @ 545.39m  
Incl:56.25deg  
Azi:239.90deg  
TVD:504.83m

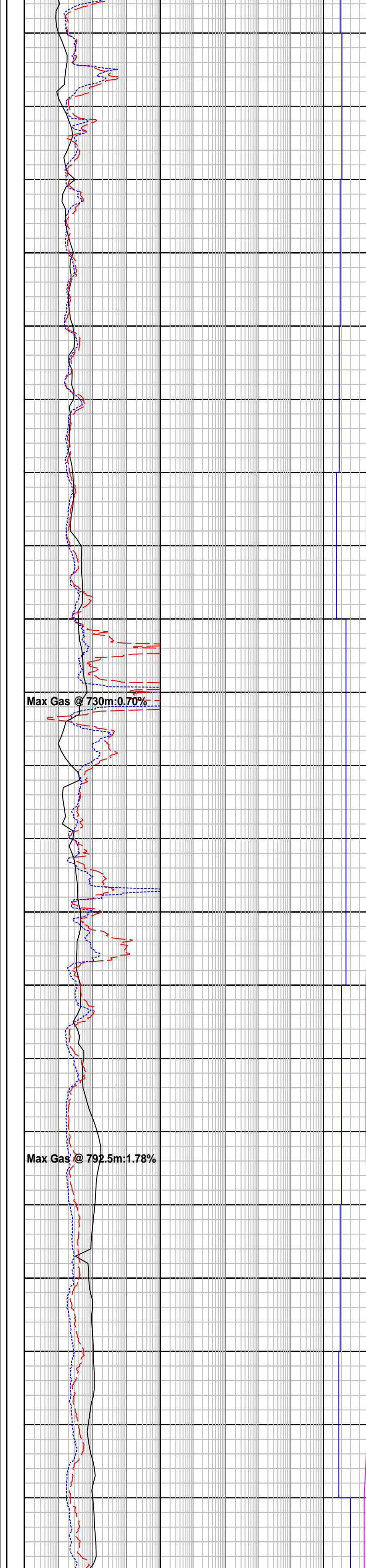
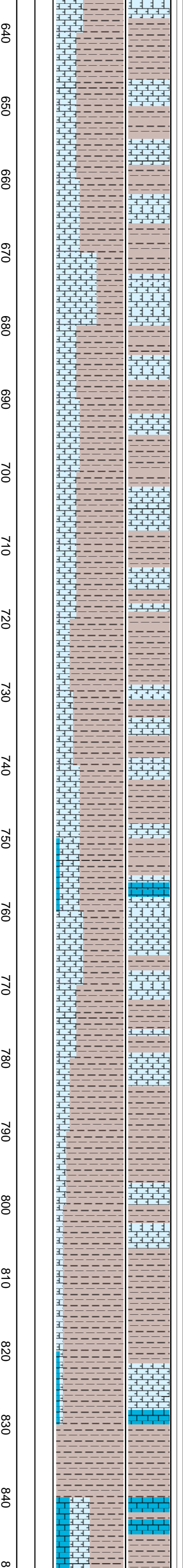
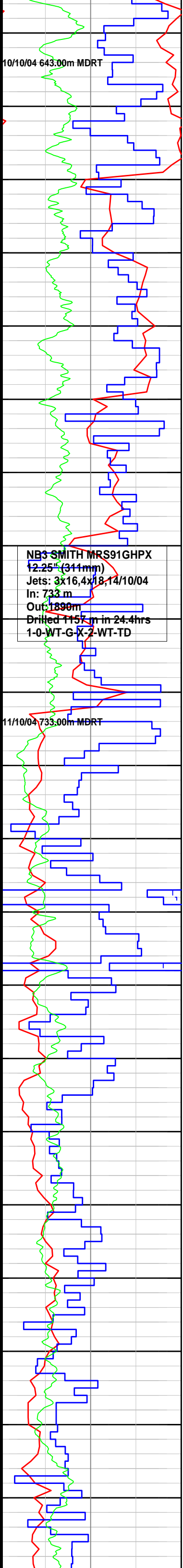
Survey @ 574.28m  
Incl:62.30deg  
Azi:240.43deg  
TVD:519.58m

580 - 620 m MDRT  
**CALCARENITE:** off wh, v lt gy, fri, com lse, vf - m, sbang-sbrnd, mod srt, tr arg mtx, tr spar calc, occ rexln, tr foss frag, fr vis por  
**CALCAREOUS CLAYSTONE:** m dk gy-dk gy, sft-mod hd, sbbiky-blky, occ amor, tr foss, slty i/p

Survey @ 603.17m  
Incl:65.46deg  
Azi:242.25deg  
TVD:532.06m

620 - 695 m MDRT  
**CALCILUTITE:** v lt gy, rr off wh, sft, rr frm, sbbiky  
**CALCAREOUS CLAYSTONE:** m dk gy - dk gy, frm - mod hd, sbbiky, tr pyr





Survey @ 641.65m  
 Incl :73.95deg  
 Azi:242.70deg  
 TVD:545.48m

MW 1.1sg, FV 133@31, PV 27@49 YP 33 Gels 16/24/27, Oil/H2O % Vol 63.5/28.0, Sol% Vol 6.2, Sand % Vol 0.0

Survey @ 670.52m  
 Incl:78.54deg  
 Azi:240.82deg  
 TVD:552.13m

695 - 740 m MDRT  
 CALCAREOUS CLAYSTONE: olv gy, gysh olv gn, pred frm - hd, mnr sft, sbblky - blk, mnr foss, rr pyr  
 CALCILUTITE: v lt gy, rr off wh, sft, occ frm, sbblky, rr sbfiss, slty i/p, tr glau

Survey @ 702.00m  
 Incl:82.61deg  
 Azi:240.96deg  
 TVD:557.14m

MW 1.12sg, FV 90@35, PV 28@49, YP 34, Gels 13/19/24, Oil/H2O % Vol 63.7/27.3, Sol % Vol 6.3, Sand % Vol 0.1

740 - 775 m MDRT  
 CALCARENITE: off wh, lt gy, hd, vf-f calc grs, ang, sbelong, rr sbrnd, mod srt, calc cmt, no vis por, n/shw  
 CALCAREOUS CLAYSTONE: off wh, lt gy, sft-frm, sbblky, rr sbfiss, slty i/p, tr glau

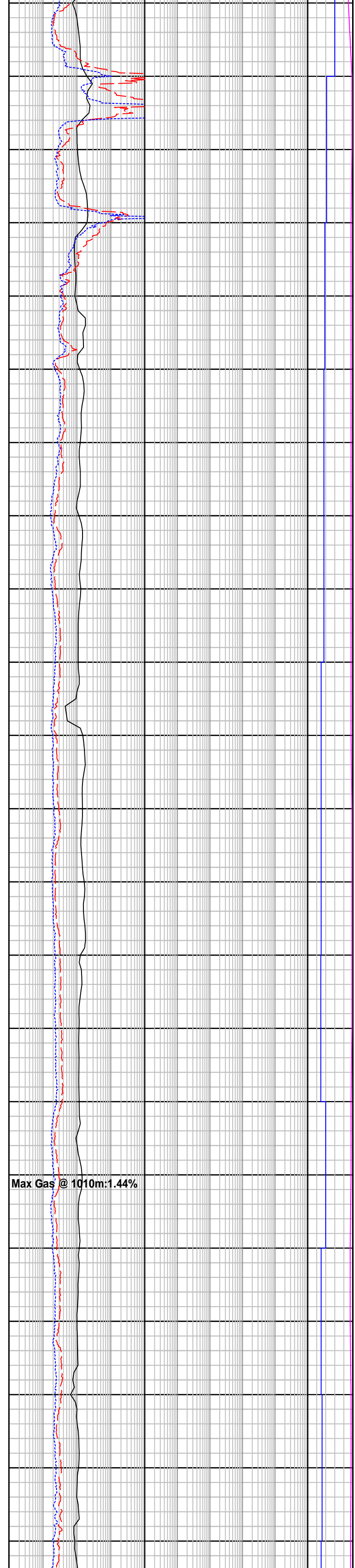
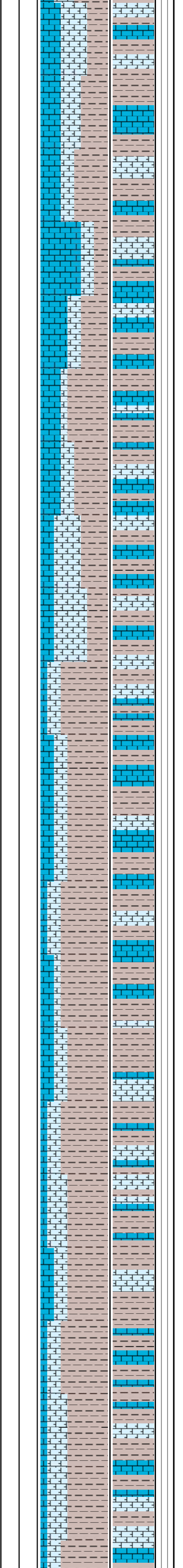
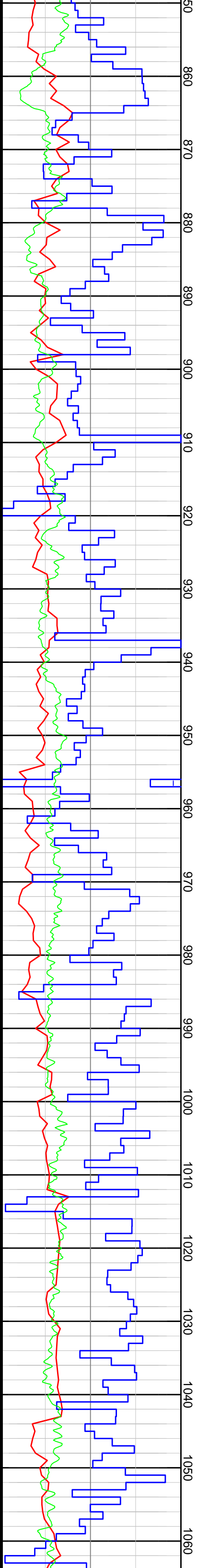
Survey @ 760.44m  
 Incl:83.41deg  
 Azi:243.48deg  
 TVD:564.48m

775 - 840 m MDRT  
 CALCARENITE: off wh, lt gy, hd, vf - f calc grs, ang, sbelong, rr sbrnd, mod srt, calc cmt, no vis por, n/shw  
 CALCAREOUS CLAYSTONE: lt gy - m gy, sft, rr frm, plas, rr sbblky, tr foss, rr carb mat

Survey @ 789.80m  
 Incl:83.92deg  
 Azi:243.72deg  
 TVD:567.72m

Survey @ 819.61m  
 Incl:84.36deg  
 Azi:243.67deg  
 TVD:570.77m

840 - 930 m MDRT  
 CALCARENITE: v lt gy, off wh, occ yelsh gy, fri, com lse, f - m, occ crs, sbang - sbrnd, tr rexln calc, tr arg mtx, tr foss frag, tr



**CALCILUTITE:** v lt gy, sft - mod hd, sbblky - blk, tr foss frag, tr v f xl calc, tr arg mtx

**CALCAREOUS CLAYSTONE:** m lt gy - m gy, sft - mod hd, sbblky-blky, slty i/p

Survey @ 848.28m  
 Incl:84.04deg  
 Azi:242.61deg  
 TVD:573.68m

Survey @ 878.56m  
 Incl:83.78deg  
 Azi:242.74deg  
 TVD:576.89m

Survey @ 906.63m  
 Incl:82.77deg  
 Azi:242.44deg  
 TVD:580.18m

930 - 1070 m MDRT  
**CALCARENITE:** v lt gy, off wh, fri, com lse, f -m, occ crs, sbang - sbrnd, tr rexln calc, tr arg mtx, tr foss frag, tr foram, fr vis por, n/shw  
**CALCILUTITE:** lt gy, sft - mod hd, sbblky - blk, tr arg mtx, tr foss frag, tr foram, com g/t  
**ARGILLACEOUS CALCILUTITE**

**CALCAREOUS CLAYSTONE:** m lt gy - m gy, sft - mod hd, sbblky - blk, slty i/p

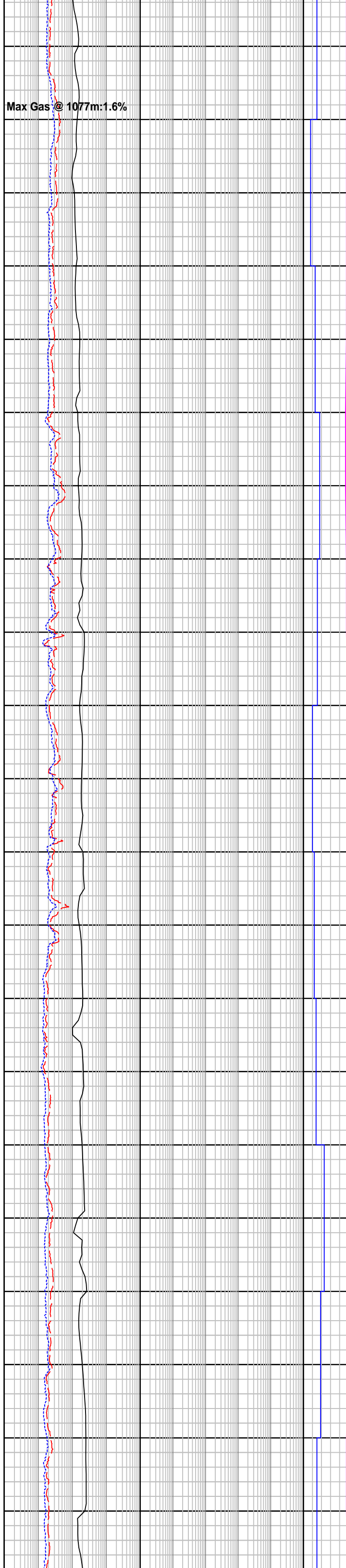
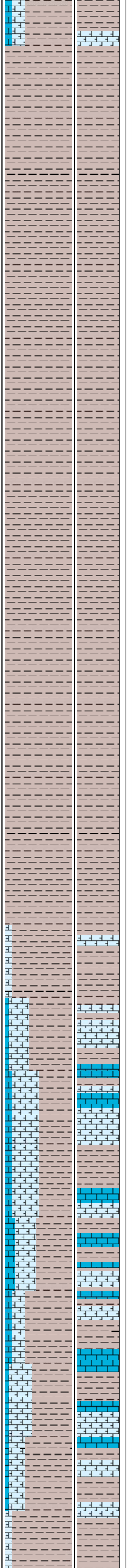
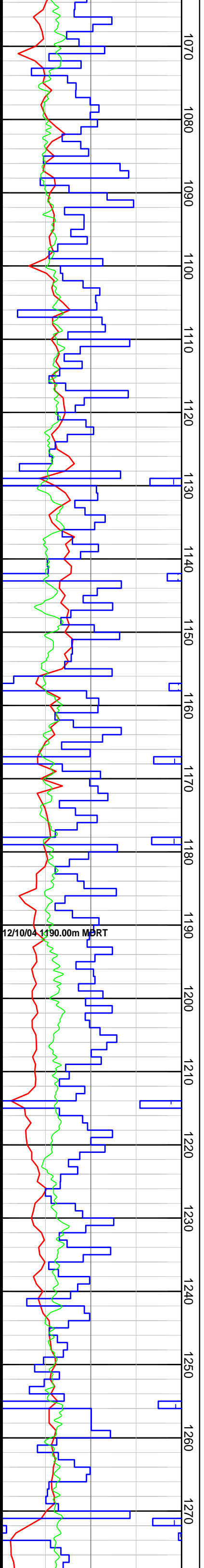
Survey @ 964.49m  
 Incl:82.74deg  
 Azi:241.30deg  
 TVD:587.68m

Survey @ 993.19m  
 Incl:82.08deg  
 Azi:241.48deg  
 TVD:591.47m

Max Gas @ 1010m: 1.44%

Survey @ 1022.00m  
 Incl:80.63deg  
 Azi:241.42deg  
 TVD:595.80m

Survey @ 1050.01m  
 Incl:79.81deg  
 Azi:241.45deg  
 TVD:600.56m



Max Gas @ 1077m:1.6%

1070 - 1190 m MDRT  
 CALCILUTITE: off wh, v lt gy, rr  
 lt gy, frm - mod hd, bblky, tr pyr

CALCAREOUS CLAYSTONE: lt  
 gy - m lt gy, occ m gy, sft - frm,  
 sbbky - blkky, tr foss frag, tr  
 foram, slty i/p, g/t  
 ARGILLACEOUS CALCILUTITE

Survey @ 1079.00m  
 Incl:79.87deg  
 Azi:241.49deg  
 TVD:605.68m

Survey @ 1108.15m  
 Incl:80.17deg  
 Azi:241.77deg  
 TVD:610.73m

Survey @ 1136.63m  
 Incl:79.87deg  
 Azi:241.60deg  
 TVD:615.66m

12/10/04 1190.00m MDRT

Survey @ 1195.46m  
 Incl:80.42deg  
 Azi:241.80deg  
 TVD:625.89m

1190 - 1280 m MDRT  
 CALCARENITE: yelsh gy, pa  
 olv, mod hd, vf - f, rr m calc grs,  
 ang, elong - sbelong, fr - mod  
 srt, calc cmt, mnr glau, tr pyr,  
 pr vis por

CALCILUTITE: off wh, v lt gy, lt  
 gnsh gy, sft, plas, rr amor, tr  
 glau, tr foram

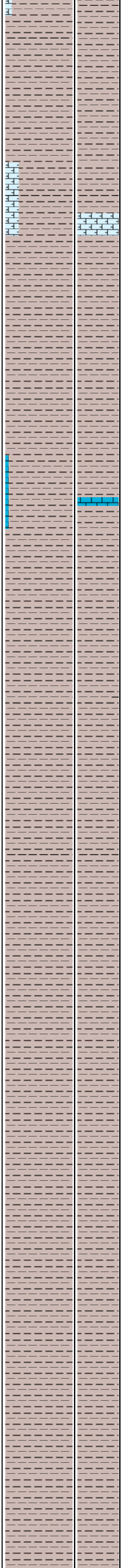
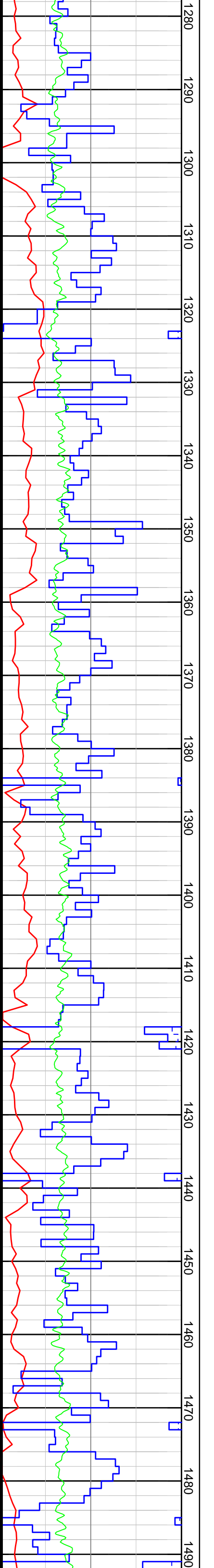
CALCAREOUS CLAYSTONE: lt  
 gy - m lt gy, lt olv gy - olv gy,  
 mod hd - hd, bblky, rr - mnr  
 glau, tr pyr

Survey @ 1223.16m  
 Incl:81.0deg  
 Azi:241.65deg  
 TVD:630.36m

MW 1.13sg, FV 91@25, PV  
 33@49, YP 34, Gels 16/24/28,  
 Oil/H2O % Vol 63.5/27.2, Sol %  
 Vol 6.7, Sand % Vol 0.0

Survey @ 1283.50m  
 Incl:83.04deg  
 Azi:237.45deg  
 TVD:638.60m





1280 - 1410 m MDRT  
 CALCARENITE: v pa or, v lt gy, hd - v hd, v f, ang, wl srt, calc cmt, tr rexln calc, no vis por

CALCILUTITE: off wh, v lt gy, disp - v sft, disp - plas, trpyr

CALCAREOUS CLAYSTONE: lt gy, ghsh gy, mod hd, sbblky - blkly, mnr glau, tr foram

Survey @ 1310.16m  
 Incl:83.29deg  
 Azi:235.43deg  
 TVD:641.78m

Max Gas @ 1357m:2.22%

Survey @ 1364.84m  
 Incl:83.14deg  
 Azi:233.33deg  
 TVD:648.23m

Survey @ 1394.75m  
 Incl:82.73deg  
 Azi:233.54deg  
 TVD:651.91m

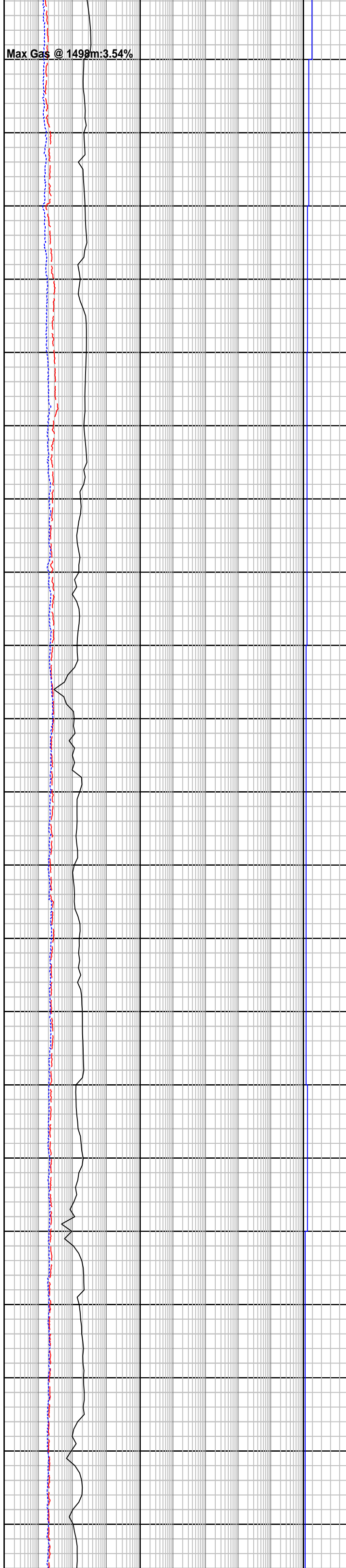
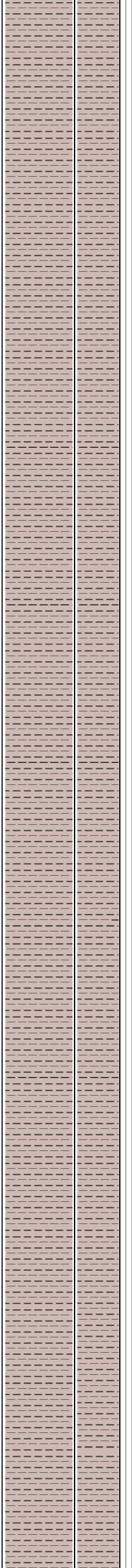
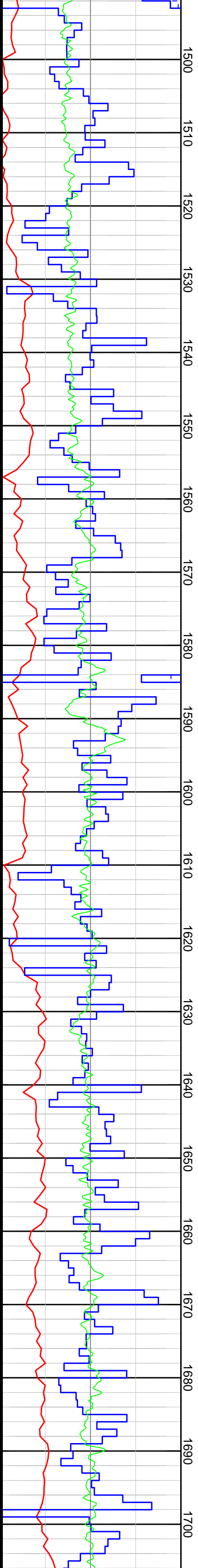
1410 - 1490 m MDRT  
 CALCAREOUS CLAYSTONE: lt bnsh gy, lt olv brn, sft - mod hd, plas - sbblky, com slty i/p, tr foram, tr glau

Survey @ 1424.29m  
 Incl:81.77deg  
 Azi:233.40deg  
 TVD:655.90m

Survey @ 1452.78m  
 Incl:81.47deg  
 Azi:233.04deg  
 TVD:660.05m

Survey @ 1481.47m  
 Incl:81.43deg  
 Azi:232.20deg  
 TVD:664.31m

1490 - 1600 m MDRT  
 CLAYSTONE: lt gy - m gy, lt olv



Survey @ 1508.7m  
 Incl:81.53deg  
 Azi:231.80deg  
 TVD:668.35m

Survey @ 1535.81m  
 Incl:81.67deg  
 Azi:231.24deg  
 TVD:672.31m

Survey @ 1562.22m  
 Incl:81.87deg  
 Azi:230.85deg  
 TVD:676.09m

Survey @ 1591.19m  
 Incl:82.39deg  
 Azi:231.01deg  
 TVD:680.06m

1600 - 1640 m MDRT  
 GLAUCONITIC CLAYSTONE: lt  
 gy - m gy, lt olv gy - olv gy, dk  
 gy, sft - mod hd, sbblky, occ  
 sbfiss, com slty i/p, tr foram,  
 mnr - com glau, occ sli calc

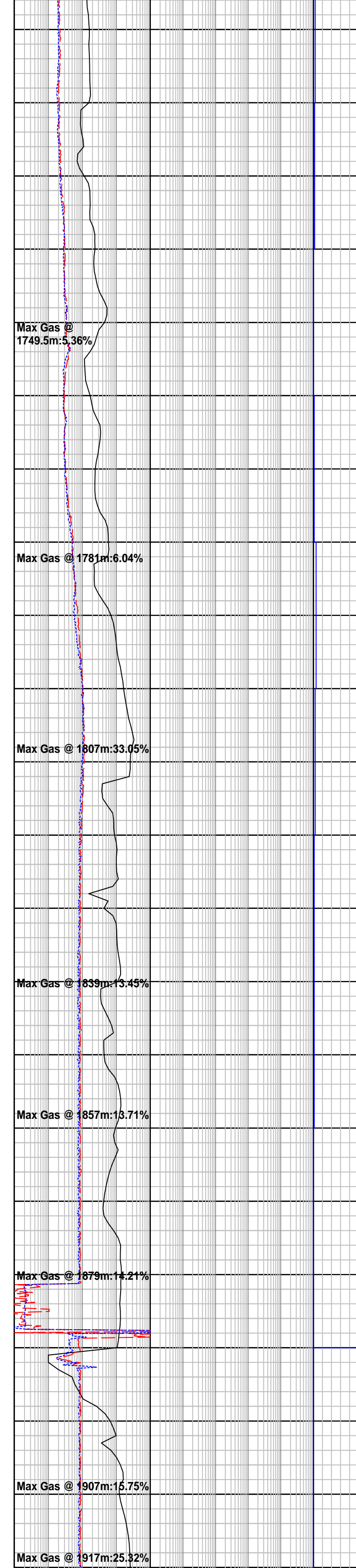
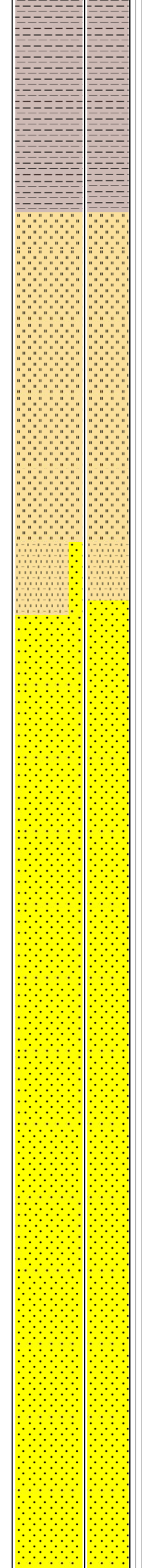
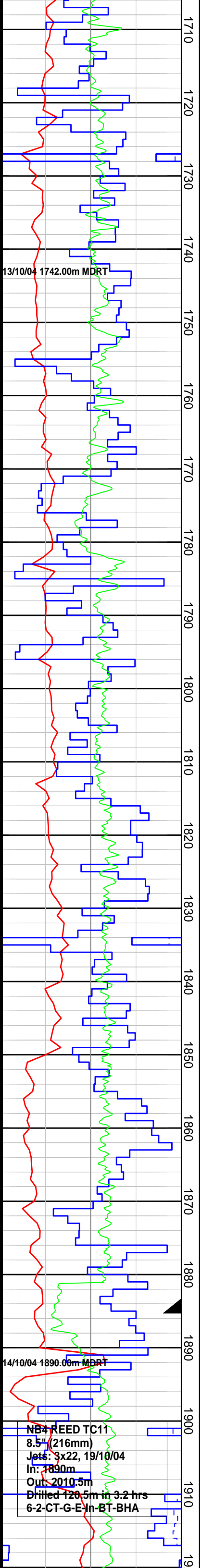
Survey @ 1619.48m  
 Incl:82.42deg  
 Azi:230.70deg  
 TVD:683.79m

1640 - 1735 m MDRT  
 CLAYSTONE: lt gy - m lt gy, lt  
 olv gy, m dk gy, sft - mod hd,  
 sbblky - blkky, occ sbfiss, tr  
 glau, occ calc i/p

Survey @ 1646.78m  
 Incl:81.70deg  
 Azi:230.29deg  
 TVD:687.57m

Survey @ 1677.16m  
 Incl:80.92deg  
 Azi:230.59deg  
 TVD:692.16m





Survey @ 1707.15m  
Incl:80.69deg  
Azi:230.54deg  
TVD:696.95m

MW 1.13sg, FV 88@59, PV 32@49 YP 36 Gels 15/22/26, Oil/H2O % Vol 63.5/26.0, Sol% Vol 8.0, Sand % Vol 0.0

1735 - 1790 m MDRT  
SILTSTONE: m lt gy - m gy, occ m dk gy, frm - mod hd, sbbkly - blkly, cly i/p, mn - com glau

Survey @ 1736.63m  
Incl:81.59deg  
Azi:230.66deg  
TVD:701.49m

1780-1790m MDRT  
SILTY SANDSTONE: trnsI,rr clr,sft,slt,rr vf qtz grs, eq,sbang - sbrnd,mod - wl srt,abd slit/cly mtX,mnr - com glau

1790 - 1890 m MDRT  
SANDSTONE: m - dk brnsh gy, olv blk, occ mot gysh yel, gysh or, sft, vf qtz grs, eq, sbang - sbrnd, mod - wl srt, slit mtX, mn - com glau, tr pyr, abd slit, pr

Survey @ 1821.68m  
Incl:86.72deg  
Azi:232.17deg  
TVD:710.44m

Survey @ 1851.10m  
Incl:88.88deg  
Azi:232.86deg  
TVD:711.57m

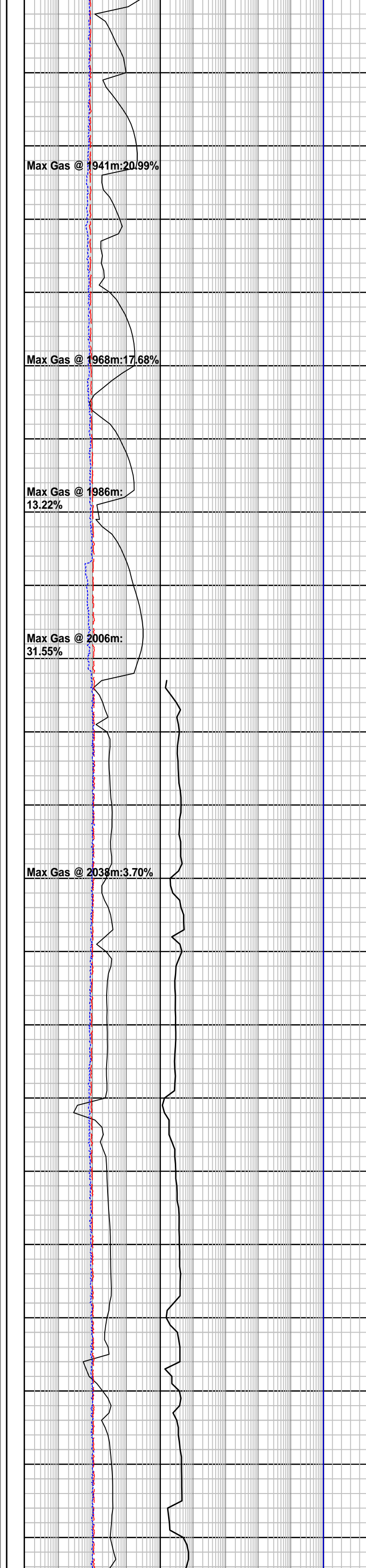
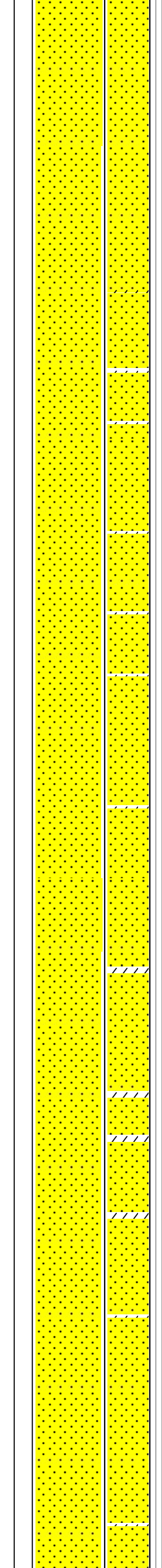
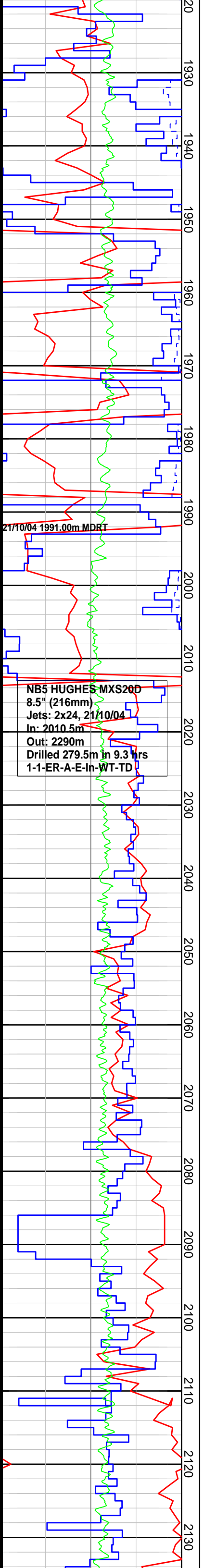
Survey @ 1873.21m  
Incl:89.38deg  
Azi:232.65deg  
TVD:711.90m

Drilled 12.25" hole to 1890m. Set 9.625" Casing shoe @ 1885.39 m

Displaced SOBM to well hole cleaner and hi - vis sweeps

FIT @ 1893m EMW = 1.34 sg

1890 - 1950 m MDRT  
SANDSTONE: m - dk brnsh gy, lt gy, occ mot gysh yel, clr-trnsI qtZ, com lse, vf-m, occ c, sbang-sbrnd, p-mod srt, tr sil cmt, tr arg mtX, tr glau, tr pyr nod



Survey @ 1933.88m  
 Incl:88.28deg  
 Azi:232.85deg  
 TVD:713.36m

Max Gas @ 1941m:20.99%

1950 - 2000 m MDRT  
 SANDSTONE: lt gy,occ gysh  
 yel,clr - trnsl, com lse,fri agg,f -  
 m, occ c,sbang-sbrnd,p - mod  
 srt,tr sil cmt,tr glau,tr pyr nod,tr  
 chert, silty i p,p-fr vis por

PYRITE AGGREGATES: vf nod  
 pyr, mod hd - hd, tr blk liths

Survey @ 1962.47m  
 Incl:89.05deg  
 Azi: 233.43deg  
 TVD:714.03m

Max Gas @ 1968m:17.68%

MW 1.18sg, FV 100@38, PV  
 41@49 YP 12 Gels 4/8/12,  
 Oil/H2O % Vol 63.0/25.0, Sol %  
 Vol 9.8, Sand % Vol 0.0

Survey @ 2000.17m  
 Incl:89.31deg  
 Azi: 233.58deg  
 TVD:714.57m

Max Gas @ 1986m:  
 13.22%

2000 - 2010 m MDRT  
 SANDSTONE:clr-trnsl,pred  
 lse,vf-f qtz grs, sbang,com  
 sbrnd-rnd,sbelong-sbspher,rr  
 elong,pr srt,com intgran pyr,tr  
 rdsh brn liths,tr xln calc,p-fr vis  
 por

MW 1.10sg, FV 58@3856, PV  
 8@49 YP 26 Gels 9/13/18,  
 Oil/H2O % Vol 0.0/94.0, Sol %  
 Vol 3.6, Sand % Vol 0.1

Sample from 2020m MDRT is  
 washed out of all lithology  
 except quartz grains

Survey @ 2029.18m  
 Incl:89.63deg  
 Azi: 234.03deg  
 TVD:714.84m

Max Gas @ 2038m:3.70%

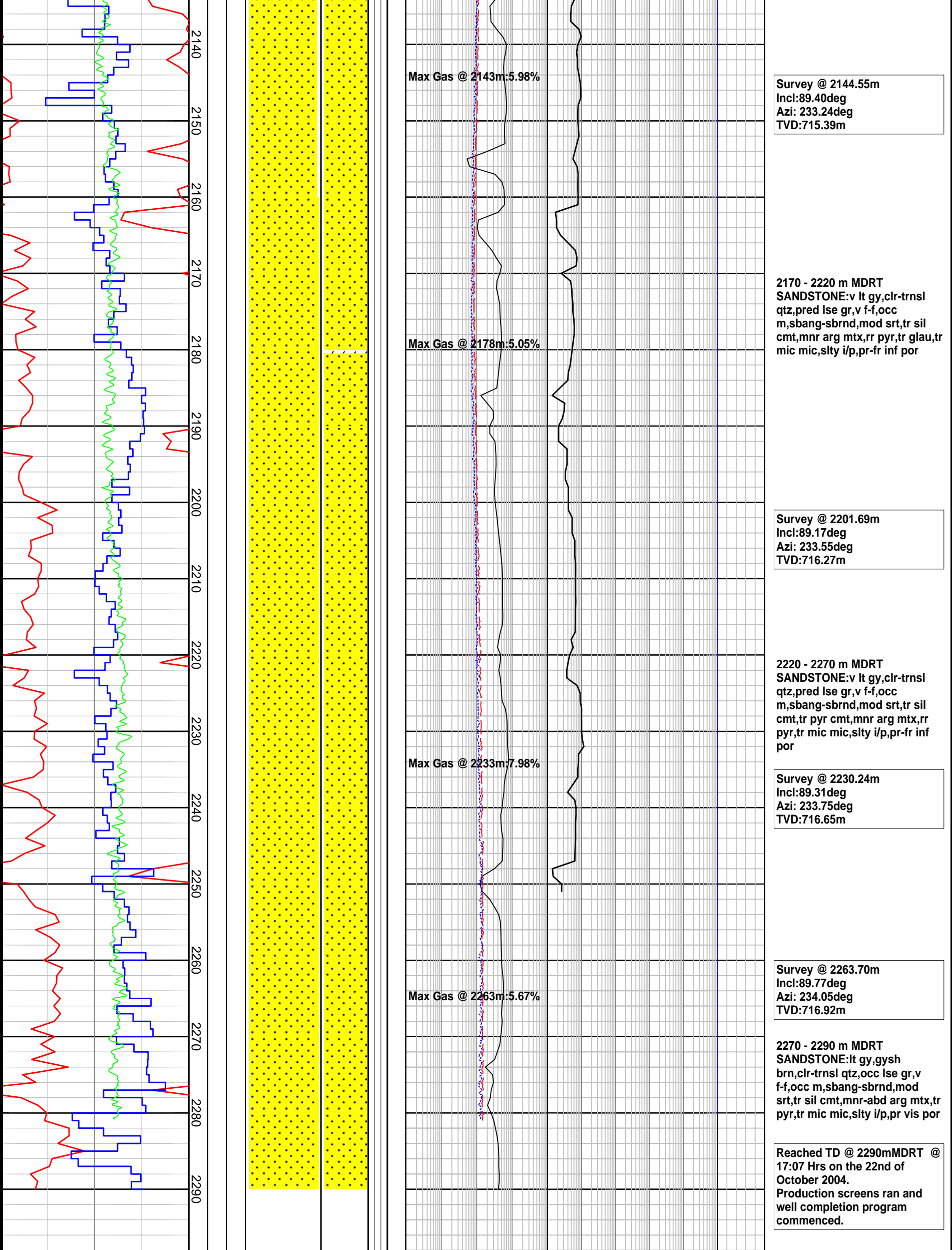
2010 - 2090 m MDRT  
 SANDSTONE:clr-trnsl,lse,slt,  
 mnv vf qtz grs,  
 sbrnd-rnd,sbelong-sbspher,wl-v  
 wl srt,tr pyr, tr mic,pr inf por

Survey @ 2058.39m  
 Incl:89.74deg  
 Azi: 233.39deg  
 TVD:715.0m

Survey @ 2087.22m  
 Incl:89.54deg  
 Azi: 233.14deg  
 TVD:715.18m

2090-2170 m MDRT  
 SANDSTONE:trnsl,lse,pred slt,  
 mnv vf qtz grs,  
 sbang-sbrnd,sbspher,wl  
 srt,mnr pyr, tr blk,rdsh brn  
 stn,tr brn liths,pr inf por

Survey @ 2115.64m  
 Incl:90.11deg  
 Azi: 233.12deg  
 TVD:715.26m



**FORMATION EVALUATION LOG**

<b>WOB Avg (klbs)</b> 10   20   30   40 <b>ROP (m/hr)</b> 100   75   50   25 <b>Backup ROP</b> 500   400   300   200 <b>MWDG.GAM1</b> 0   200 <b>API</b>	<b>MD meters 1:500</b> <b>TVD</b> <b>CORE</b>	<b>Cuttings Lithology</b>	<b>Interpreted Lithology</b>	<b>CUT FLUORESCENCE</b> HC SHOWS P F G	<b>Gas Data</b> Gas Hydrocarbon Avg % 0.1   1   10   100 <b>MWDR.RESDEEP</b> 1000 Ohm.m <b>MWDR.RESSHAL</b> 1000 Ohm.m	<b>Chromatograph Data</b> Methane ppm 100000 Ethane ppm 100000 Propane ppm 100000 iso-Butane ppm 100000 n-Butane ppm 100000 iso-Pentane ppm 100000 n-Pentane ppm	<b>Calcmetry</b> CaCO3 % MgCO3 %	<b>Lithology Description</b>
					<b>Gas Data</b> Gas Hydrocarbon Avg % 0.1   1   10   100 <b>MWDR.RESDEEP</b> 1000 Ohm.m <b>MWDR.RESSHAL</b> 1000 Ohm.m	<b>Chromatograph Data</b> Methane ppm 100000 Ethane ppm 100000 Propane ppm 100000 iso-Butane ppm 100000 n-Butane ppm 100000 iso-Pentane ppm 100000 n-Pentane ppm	<b>Calcmetry</b> CaCO3 % MgCO3 %	<b>Lithology Description</b>