



Company : Santos

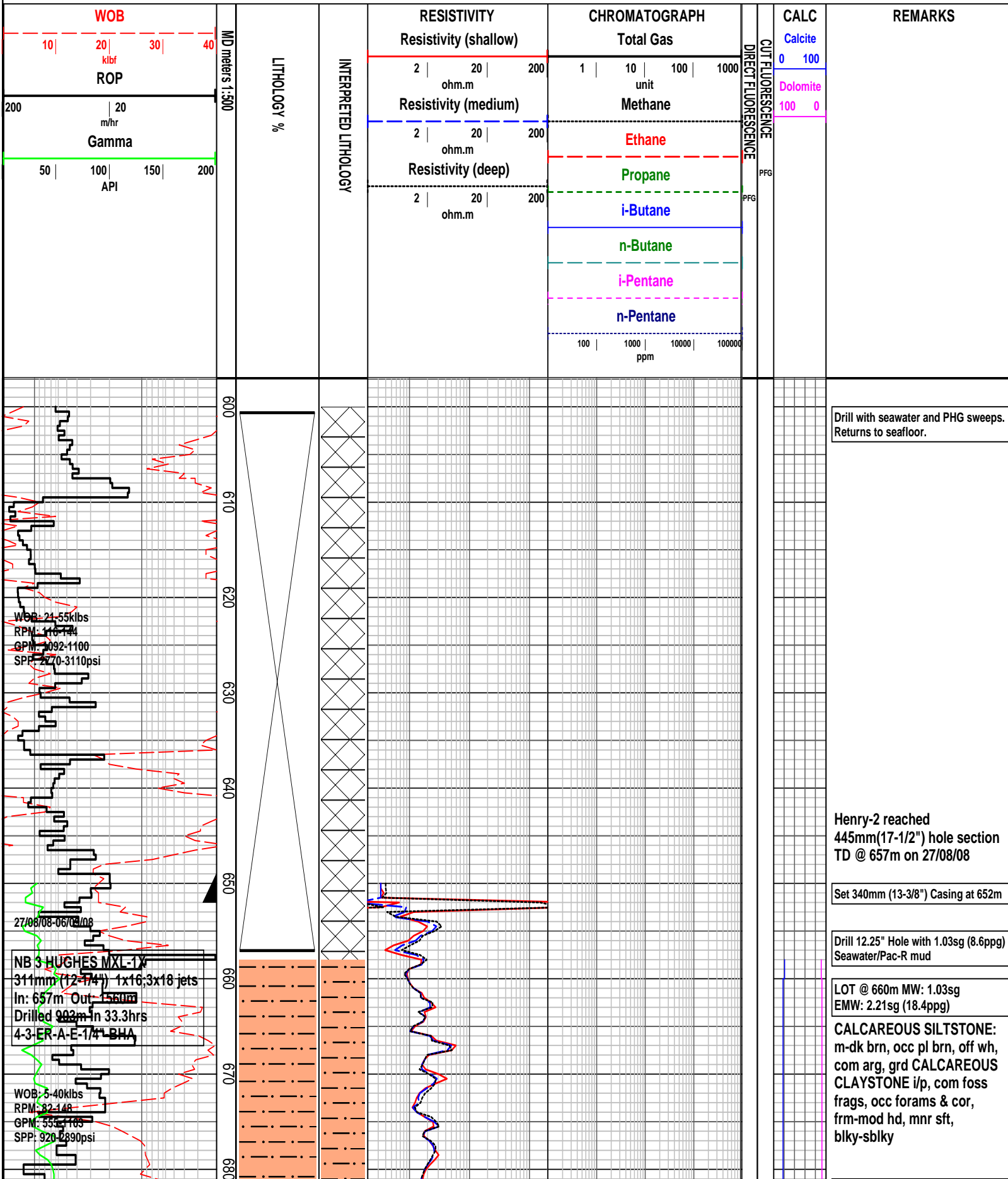
Well : Henry-2

Interval : 597.00 - 1938.54 meters

Created : 12/Sep/2008 5:28:41 AM

INTEQ

HENRY-2 FORMATION EVALUATION LOG



WOB: 21-55klbs
 RPM: 116-124
 GPM: 1092-1100
 SPP: 270-3110psi

27/08/08-06/08/08
NB 3 HUGHES MXL-1X
 311mm (12-1/4") 1x16; 3x18 jets
 In: 657m Out: 560m
 Drilled 902m in 33.3hrs
 4-3-ER-A-E-1/4" BHA

WOB: 5-40klbs
 RPM: 82-148
 GPM: 553-1185
 SPP: 920-2890psi

Drill with seawater and PHG sweeps.
 Returns to seafloor.

Henry-2 reached
 445mm(17-1/2") hole section
 TD @ 657m on 27/08/08

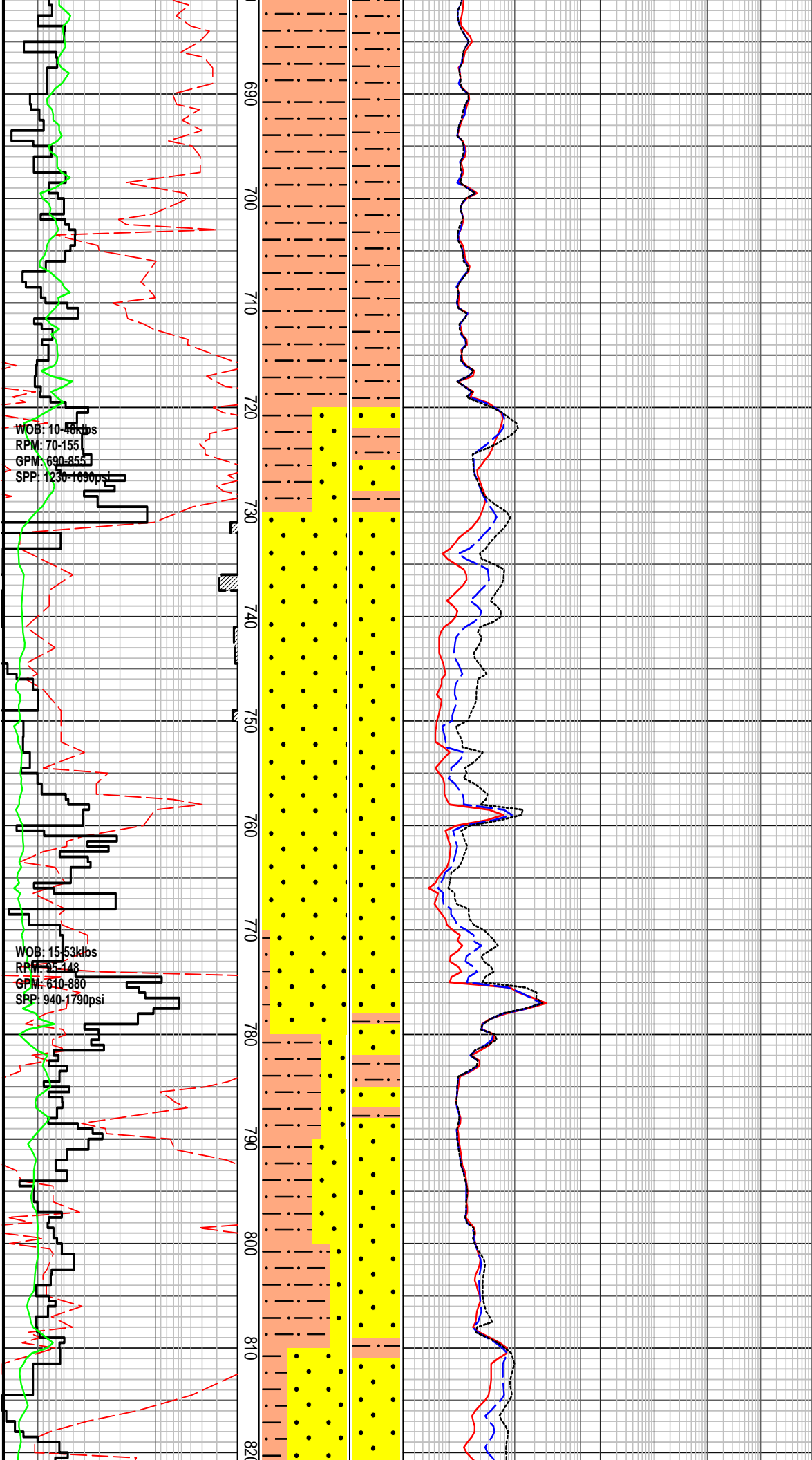
Set 340mm (13-3/8") Casing at 652m

Drill 12.25" Hole with 1.03sg (8.6ppg)
 Seawater/Pac-R mud

LOT @ 660m MW: 1.03sg
 EMW: 2.21sg (18.4ppg)

CALCAREOUS SILTSTONE:
 m-dk brn, occ pl brn, off wh,
 com arg, grd **CALCAREOUS**
CLAYSTONE i/p, com foss
 frags, occ forams & cor,
 frm-mod hd, mnr sft,
 blkly-sblky

Survey at 681.58m
Inc: 0.29°
Azi:157.36° TVD: 681.50m



CALCAREOUS SILTSTONE:
m-dk brn, occ pl brn, off wh, com arg, grd **CALCAREOUS CLAYSTONE** i/p, com foss frags, occ forams & cor, frm-mod hd, mnr sft, blk-y-sblky

SANDSTONE: m-dk orgn, rr off wh, m-dom v crs, pr srt, sbrnd-rndd, wk sil cmt, rr off wh arg mtrx, com orgn Fe stn, lse, mnr fri-mod hd, gd-v gd inf por, no fluor

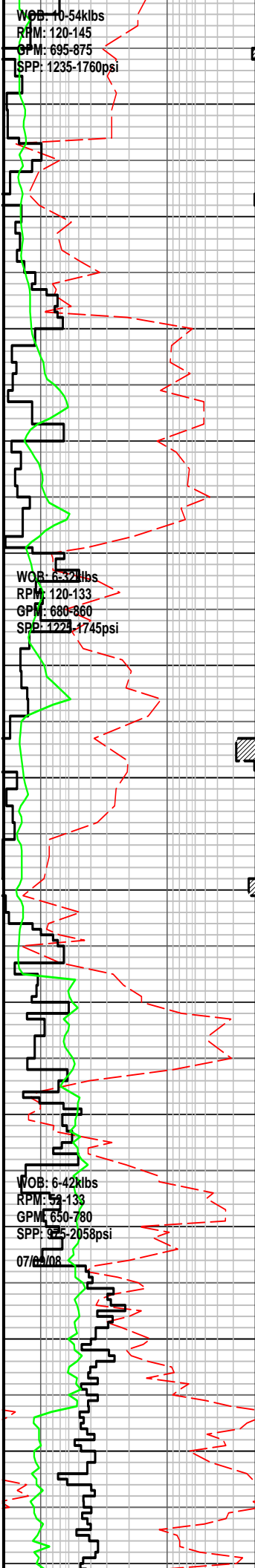
SANDSTONE: m-dk orgn, rr off wh, m-dom v crs, pr srt, sbrnd-rndd, wk sil cmt, rr off wh arg mtrx, com orgn Fe stn, lse, mnr fri-mod hd, gd-v gd inf por, no fluor

Survey at 768.28m
Inc: 0.83°
Azi:157.79° TVD: 768.20m

SILTSTONE: pl-m grn, pl gy, gy grn, off wh, arg, mnr glauc gr, rr pyr nods, frm-mod hd, disp i/p, sbbkly, mnr amor

MW: 1.19 FV: 75 PV: 21 YP: 31
GELS: 9/15/21 SOL: 5.22
pH: 8.5 Ck: 8.5 CL: 66000

SANDSTONE: off wh-pl gy, clr-trnsl, crs-v crs, m i/p, mod srt, sbang-rndd, wk sil cmt, occ off wh arg mtrx, occ pyr nods, lse gr, mnr fri, fr-gd inf por, no fluor



SANDSTONE: off wh-pl gy, clr-trnsl, crs-v crs, m i/p, mod srt, sbang-rnidd, wk sil cmt, occ off wh arg mtrx, occ pyr nods, lse grs, mnr fri, fr-gd inf por, no fluor

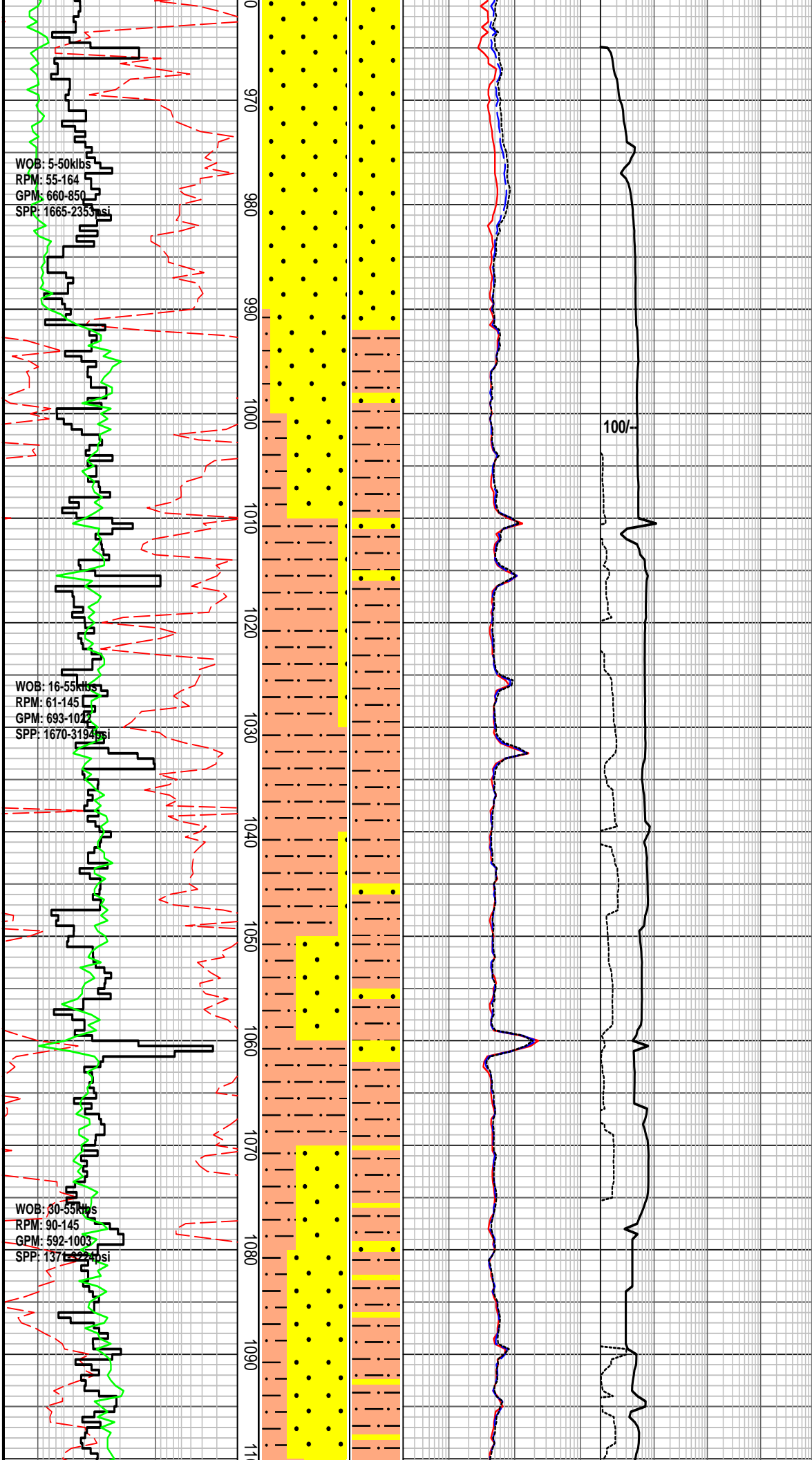
SANDSTONE: off wh-pl gy, clr-trnsl, crs-v crs, m i/p, mod srt, sbang-rnidd, wk sil cmt, occ off wh arg mtrx, occ pyr nods, lse grs, mnr fri, fr-gd inf por, no fluor

Survey at 883.67m@
Inc: 3.87°
Azi: 140.62° TVD: 883.50m

SANDSTONE: lt brnsh gy i/p, clr-trnsl, f- crs, pr srt, sbang-sbrnidd, nil cmt, rr lt brnsh gy arg mtrx, rr nod pyr, tr mic, tr liths, pred lse qtz grs, gd inf por, no fluor

Displace Hole with 1.19sg (9.9ppg)
KCL/Glycol mud

SANDSTONE: lt brnsh gy i/p, clr-trnsl, f- crs, pr srt, sbang-sbrnidd, nil cmt, rr lt brnsh gy arg mtrx, rr nod pyr, tr mic, tr liths, pred lse qtz gr, gd inf por, no fluor



WOB: 5-50klbs
 RPM: 55-164
 GPM: 660-850
 SPP: 1665-2355 psi

WOB: 16-55klbs
 RPM: 61-145
 GPM: 693-1027
 SPP: 1670-3194 psi

WOB: 30-55klbs
 RPM: 90-145
 GPM: 592-1003
 SPP: 1376-2240 psi

SANDSTONE: lt brnsh gy i/p, clr-trnsl, f- crs, pr srt, sbang-sbrndd, nil cmt, rr lt brnsh gy arg mtrx, rr nod pyr, tr mic, tr liths, pred lse qtz gr, gd inf por, no fluor

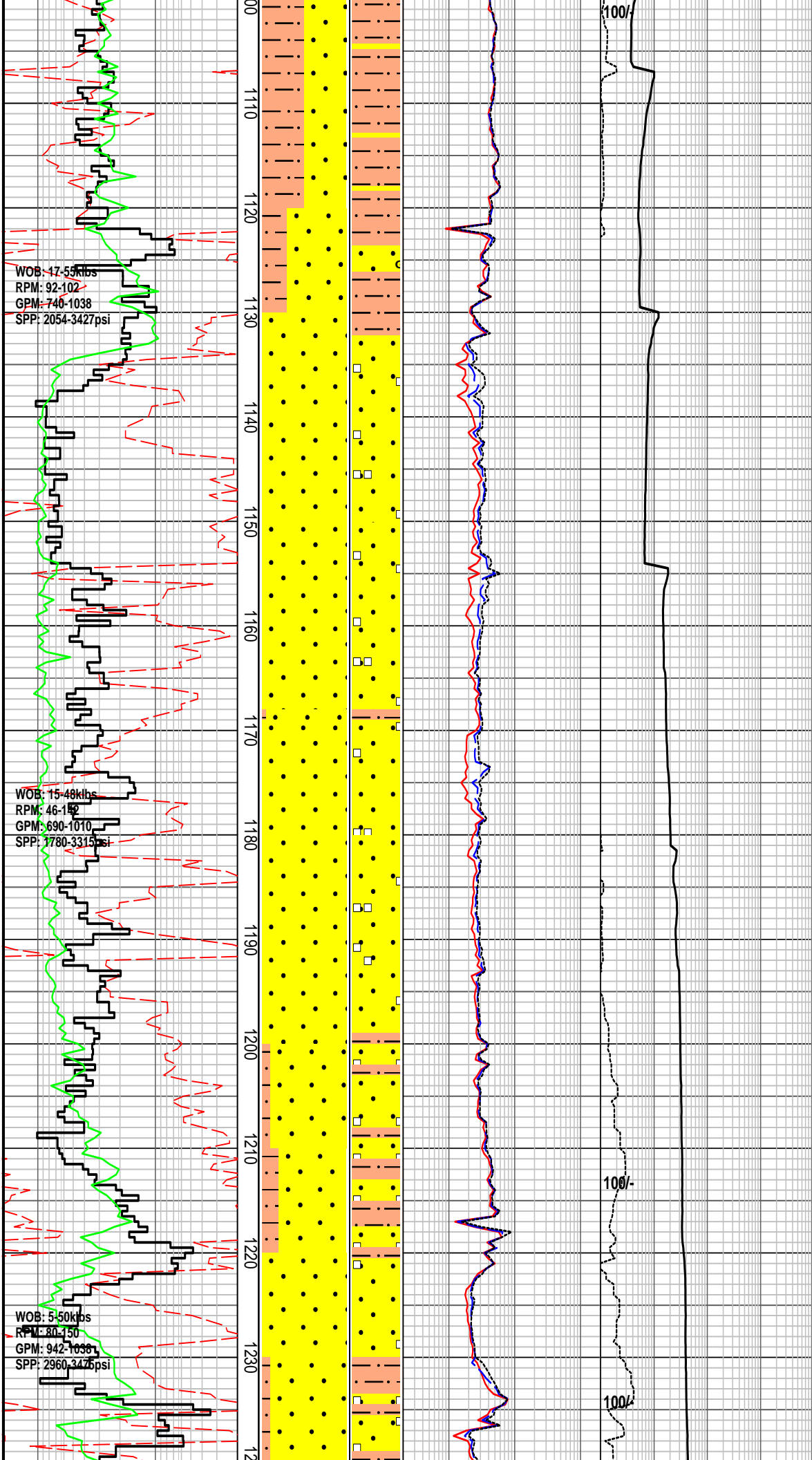
Survey at 998.24m
 Inc: 13.64°
 Azi: 148.11° TVD: 996.90m

SILTSTONE: m brn, m brnsh gy, arg, loc vf aren, tr f carb spks, tr vf glauc, sft-frm, disp i/p, sblky

SILTSTONE: m brn, m brnsh gy, arg, loc vf aren, mnr carb spks, tr vf glauc, sft-frm, sblky

SANDSTONE: off wh, lt brnsh gy, clr-trnsl, f-m gr, tr crs, pr srt, sbang-sbrndd, mnr wk calc cmt, mnr lt brnsh gy arg mtrx, tr liths, tr carb spks, p-fr inf por, no fluor

SANDSTONE: off wh, lt brnsh gy, clr-trnsl, f-m gr, tr crs, pr srt, sbang-sbrndd, mnr wk calc cmt, mnr lt brnsh gy arg mtrx, tr liths, tr carb spks, p-fr inf por, no fluor



Survey at 1112.80m
 Inc: 24.41°
 Azi: 135.23° TVD: 1104.90m

SANDSTONE: lt gy, lt brnsh gy, grnsh gy, clr-trnsl, vf-f gr, rr m-crs, sbang-sbrndd, pr srt, rr sil cmt, com nod pyr, tr liths, fri-mod hd vf agg, lse-m crs gr, pr inf por, no fluor

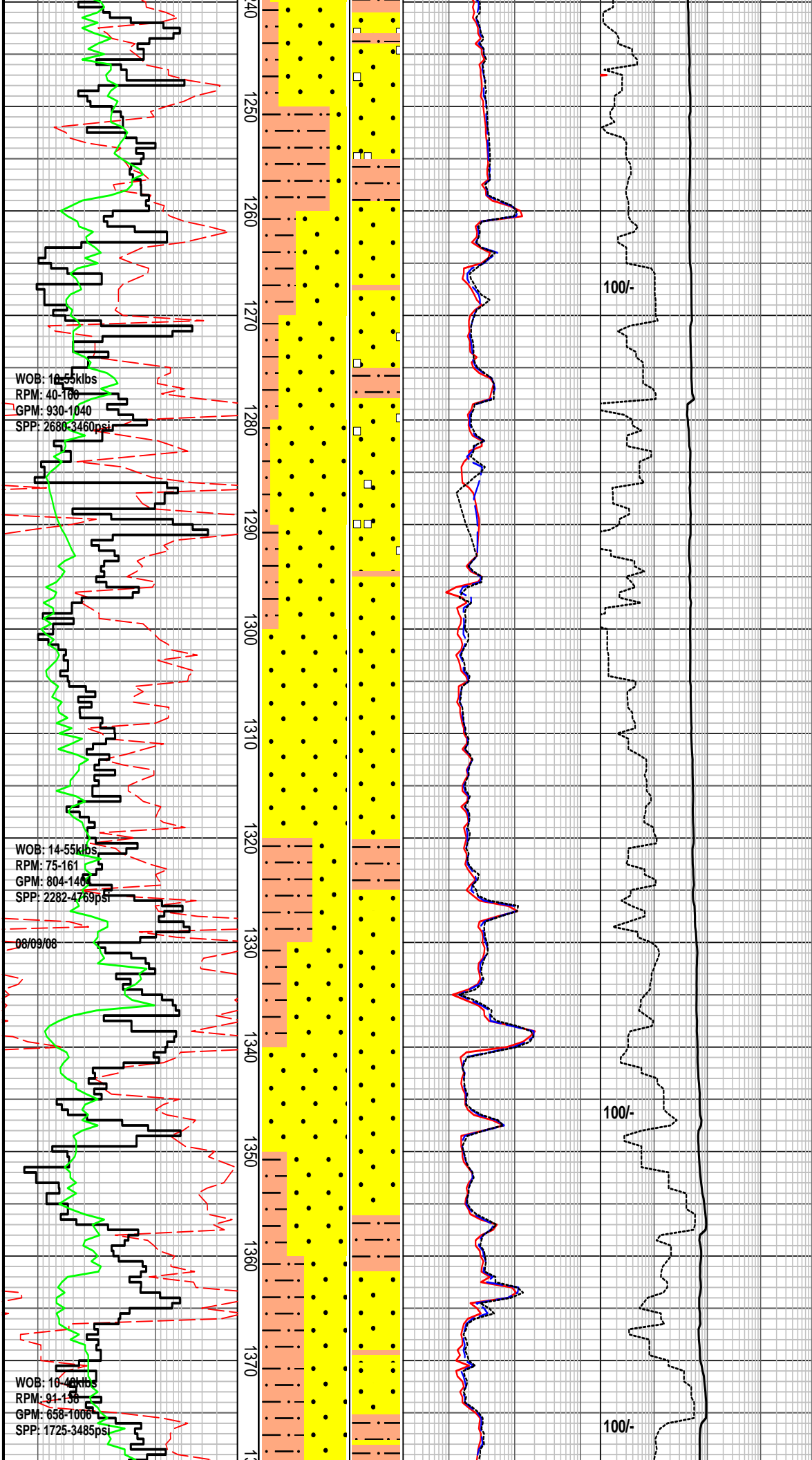
SANDSTONE: lt gy, lt brnsh gy, grnsh gy, clr-trnsl, vf-f gr, rr m-crs, sbang-sbrndd, pr srt, rr sil cmt, com nod pyr, tr liths, fri-mod hd vf agg, lse-m crs gr, pr inf por, no fluor

SANDSTONE: lt gy, lt brnsh gy, grnsh gy, clr-trnsl, vf-f gr, rr m-crs, sbang-sbrndd, pr srt, rr sil cmt, com nod pyr, tr liths, fri-mod hd vf agg, lse-m crs gr, pr inf por, no fluor

Survey at 1198.94m
 Inc: 28.27°
 Azi: 128.23° TVD: 1182.00m

SILTSTONE: m-dk brn gy, arg, mnr lith, disp-v sft, occ frm, amor, occ sbiky

SANDSTONE: lt gy, lt brnsh gy, grnsh gy, clr-trnsl, vf-f gr, rr m-crs, sbang-sbrndd, pr srt, rr sil cmt, com nod pyr, tr liths, fri-mod hd vf agg, lse-m crs gr, pr inf por, no fluor



WOB: 10-55kbs
 RPM: 40-106
 GPM: 930-1040
 SPP: 2680-3460psi

WOB: 14-55kbs
 RPM: 75-161
 GPM: 804-146
 SPP: 2282-4769psi

WOB: 10-40kbs
 RPM: 94-136
 GPM: 658-1006
 SPP: 1725-3485psi

08/09/08

SILTSTONE: m-dom dk brn, mnr brn gy, arg i/p, mnr mic, occ carb spks & frags, v sft-disp, amor, sblky i/p

Survey at 1257.97m
 Inc: 31.15°
 Azi: 125.30° TVD: 1233.20m

SANDSTONE: mnr pl brn-pl gy, clr-trnsl, f-m, mnr crs, mod srt, sbang-sbrndd, wk sil cmt, mnr off wh arg mtrx, com pyr nods, lse cln gr, mnr fri, fr inf por, pr vis por, no fluor

MW: 1.19 FV: 75 PV: 21 YP: 31
 GELS: 9/15/21 SOL: 5.22
 pH: 8.5 Ck: 0.5 CL: 66000

SANDSTONE: off wh, clr-trnsl, f-crs, mnr v crs, mod srt, sbang-sbrndd, wk sil cmt, mnr off wh arg mtrx, rr pyr nods, lse cln gr, mnr fri, fr inf por, pr vis por, no fluor

SILTSTONE: m-brnsh gy, mnr dk brn gy, arg i/p, rr carb spks, sft frm, sblky-blky

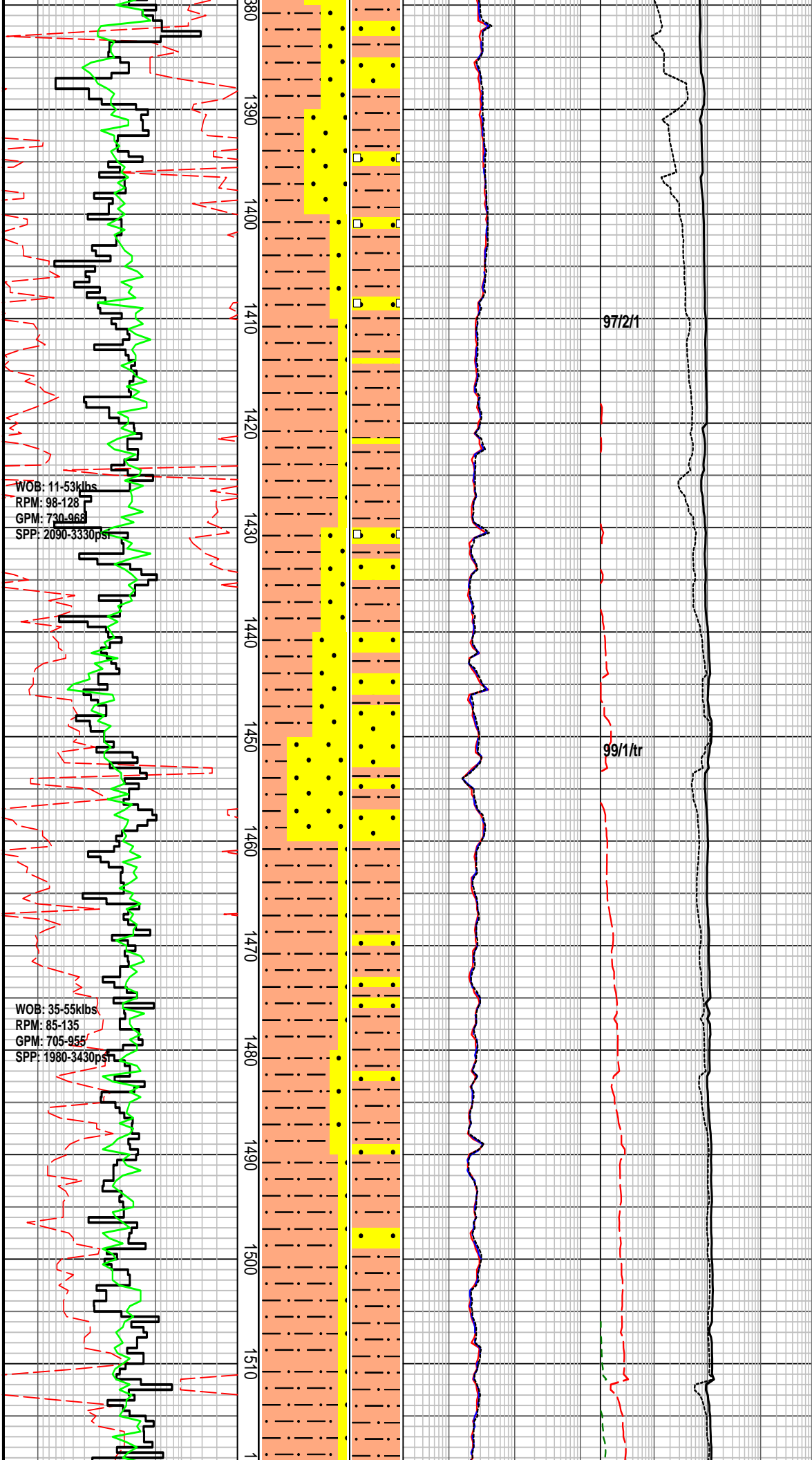
SANDSTONE: lt gy, off wh, clr-trnsl, f-m gr, mod srt, sbang-sbrndd, wk calc & sil cmt, mnr lt gy-off wh arg mtrx, mnr nod pyr, tr f gr glauc, fri f gr agg, fr inf por, no fluor

Survey at 1374.02m
 Inc: 39.86°
 Azi: 112.30° TVD: 1326.70m

100/-

100/-

100/-



SILTSTONE: m gy, arg, vf aren, mn nod pyr, tr liths, disp i/p, sblky-blky

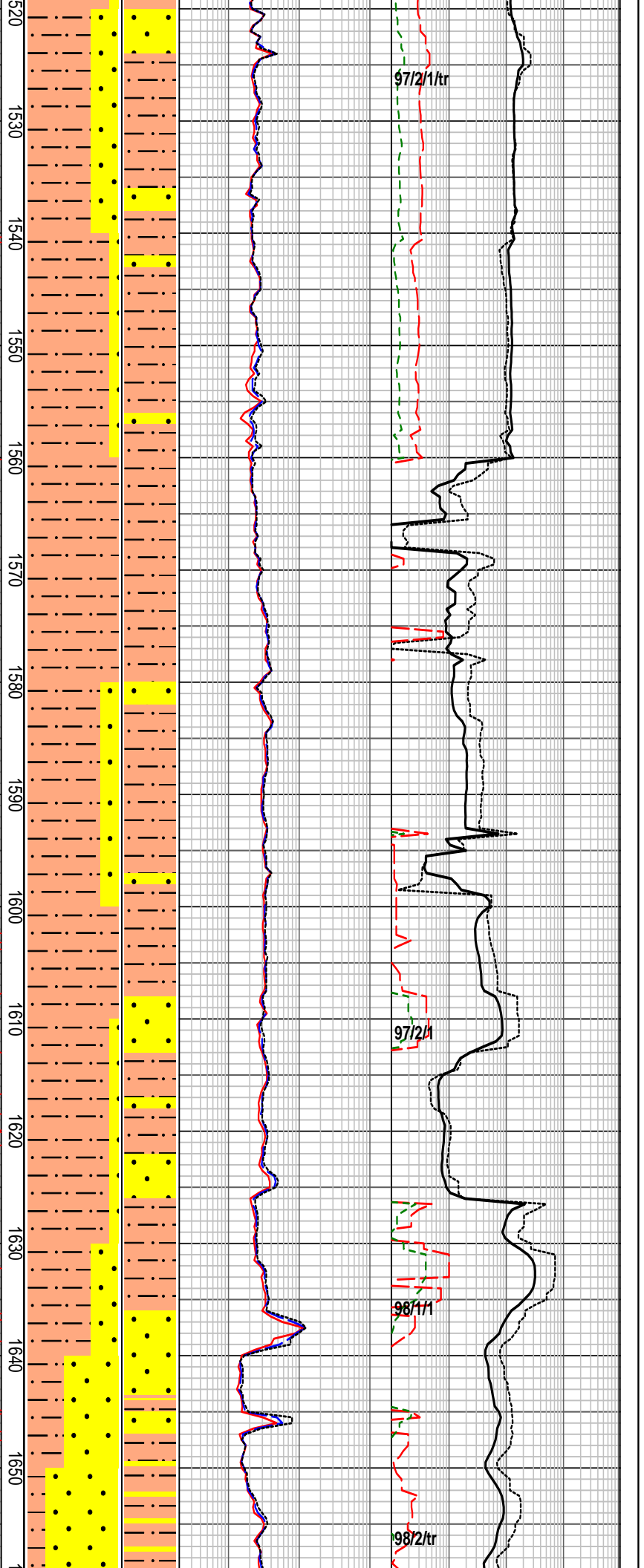
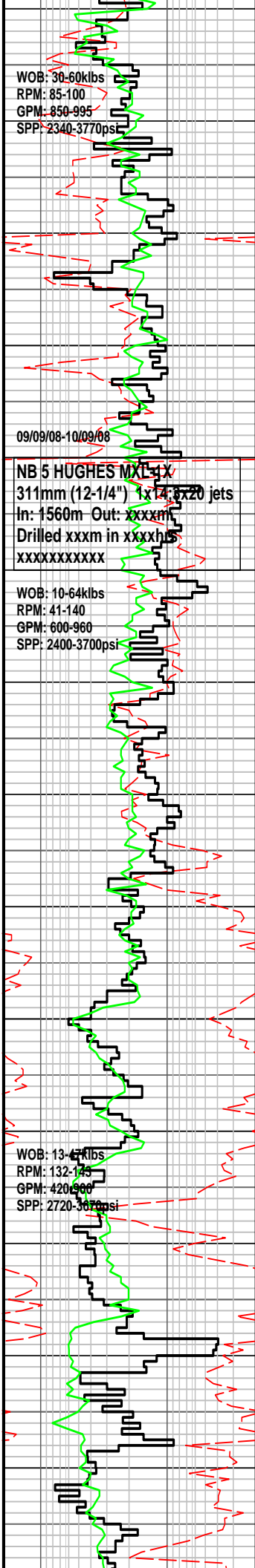
SANDSTONE: lt gy, clr-trnsl, vf-m gr, sbang-sbrndd, mod srt, rr wk sil cmt, mn lt gy arg mtrx, com nod pyr, tr f gr glauc, fri agg, pred lse, fr inf por, no fluor

SILTSTONE: m brnsh gy, lt gy, occ dk gy, arg, rr nod pyr, com glauc, frm, disp, sblky-blky

Survey at 1460.30m
Inc: 38.67°
Azi: 109.79° TVD: 1393.20m

SANDSTONE: off wh-pl gy, clr trnsl, f-m, mn crs, mod srt, dom sbang, occ sbrndd, wk sil cmt, mn off wh arg mtrx, rr glauc grs, lse, rr fri agg, fr inf por, p-fr vis por, no fluor

SILTSTONE: pl-occ m brn, mn pl gn, com arg, occ-com glauc gr, mn carb spks, dis-v sft, frm i/p, gen amor, occ sblky-blky



Survey at 1519.61m
Inc: 38.21°
Azi: 109.48° TVD: 1439.90m

SANDSTONE: off wh-pl gy, clr trnsl, f-m, mnr crs, mod srt, dom sbang, occ sbrndd, wk sil cmt, mnr off wh arg mtrx, rr glauc grs, lse, rr fri agg, fr inf por, p-fr vis por, no fluor

SILTSTONE: pl-occ m brn, mnr pl grn, com arg, occ-com glauc gr, mnr carb spks, dis-v sft, frm i/p, gen amor, occ sbilky-blky

Bit 4 unable to pass 88m, POOH layout BHA.

Survey at 1577.82m
Inc: 39.48°
Azi: 111.06° TVD: 1485.5m

SANDSTONE: off wh-pl gy, clr-trnsl, f-v crs, pr srt, sbang-sbrndd, wk sil cmt, mnr off wh arg mtrx, mnr pyr nod, lse, fr inf por, no fluor

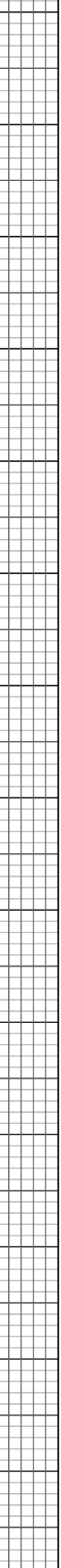
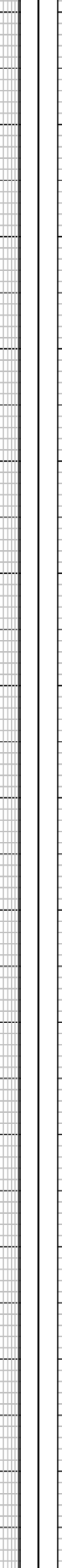
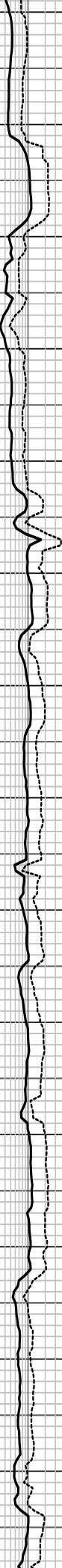
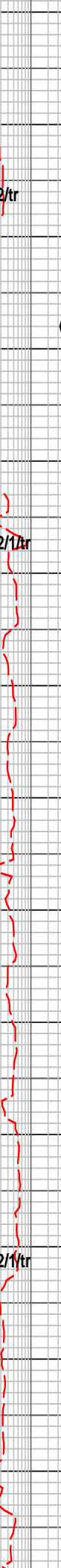
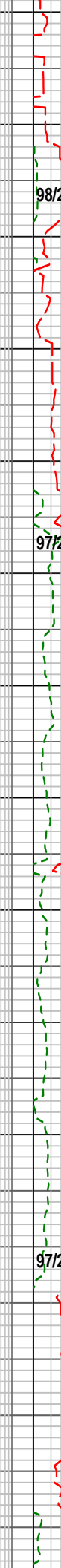
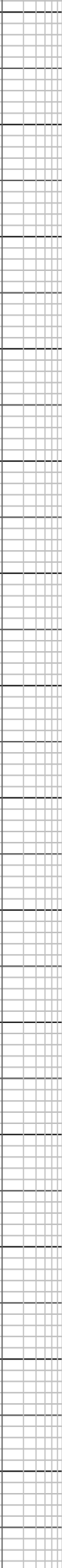
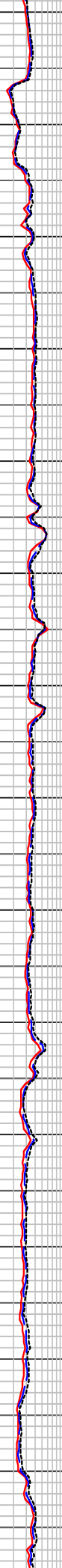
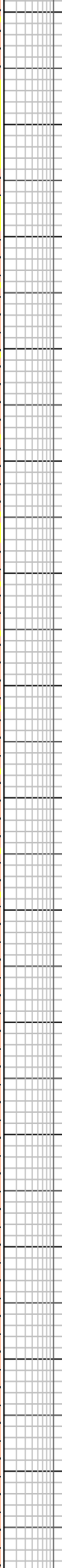
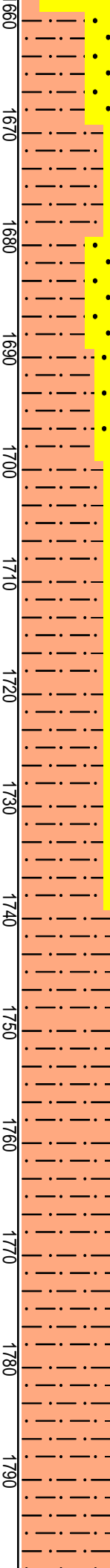
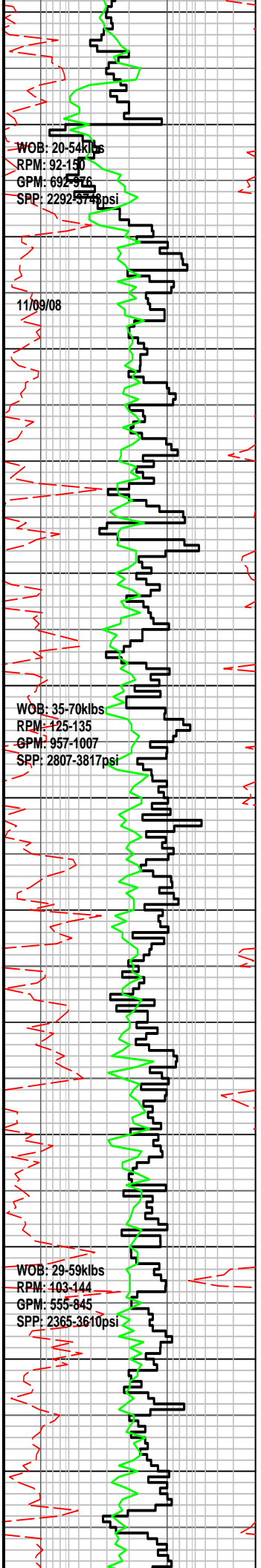
Ran Carbide @ 1596.00m
Hole In Gauge

MW: 1.32 FV: 89 PV: 34 YP: 58
GELS: 14/29/39 SOL: 11.62
pH: 8.5 Ck: 1 CL: 58000

SILTSTONE: pl-occ m brn, mnr pl grn, com arg, occ glauc gr & carb spks, dis-v sft, frm i/p, amor, sbilky

Survey at 1634.98m
Inc: 43.80°
Azi: 113.39° TVD: 1528.30m

SANDSTONE: off wh, clr-trnsl, f-occ m, vf i/p, mod srt, sbang-sbrndd, mod calc cmt, com off wh arg mtrx, mnr liths, lse cln wh, fri, pr inf & vis por



SANSTONE: off wh, clr-trnsl, f-m, rr crs gr, wl srt, sbang-occ sbrndd, mod calc cmt, com off wh arg mtrx, occ pyr nod, mnr liths, lse cln gr, fri, pr inf & vis por, mnr dull orgn fluor

SILTSTONE: pl-occ m brn, mnr pl grn, com arg, occ glauc gr & carb spks, dis-v sft, frm i/p, amor, sblky

SANSTONE: off wh, clr-trnsl, f-m, rr crs gr, sbang-occ sbrndd, mod wl srt, tr wk calc cmt, tr f gr glauc, pred lse f gr qtz, pr inf por, no fluor

Survey at 1720.65m
 Inc: 49.49°
 Azi: 115.31° TVD: 1587.30m

SANDSTONE: v lt gy-lt gy, wh, clr-trnsl, vf-f gr, sbang-sbrndd, wl srt, mod calc cmt, rr f gr glauc, rr nod pyr, mod hd agg, v pr vis por, no fluor

Survey at 1751.51m
 Inc: 52.16°
 Azi: 116.21° TVD: 1606.50m

SILTSTONE: m gy, m brnsh gy, arg, vf aren i/p, tr f gr glauc, frm, disp i/p, blkly

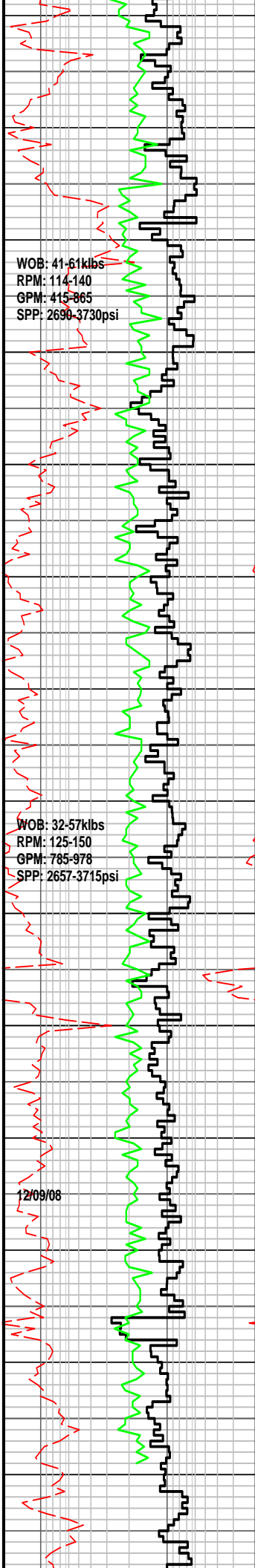
Survey at 1779.21m
 Inc: 54.97°
 Azi: 116.68° TVD: 1623.20m

SILTSTONE: m gy-m dk gy, m

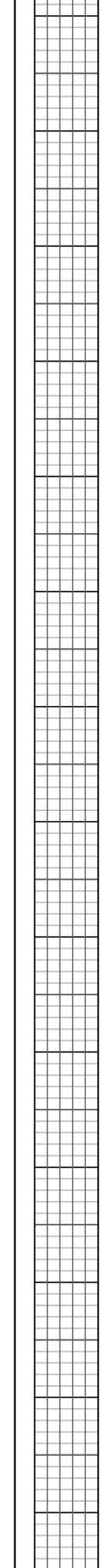
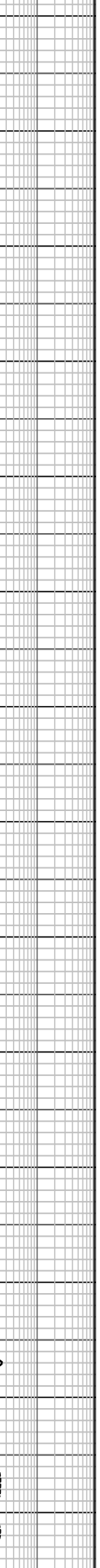
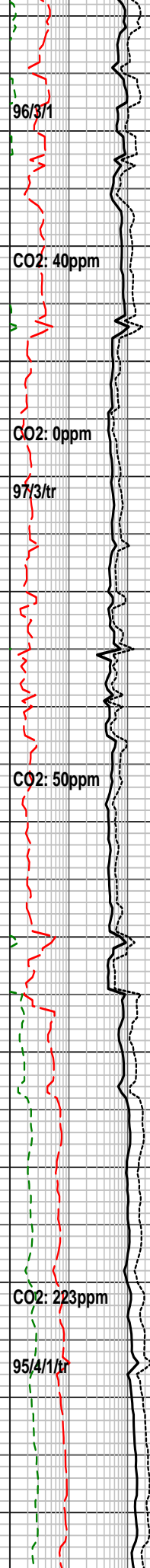
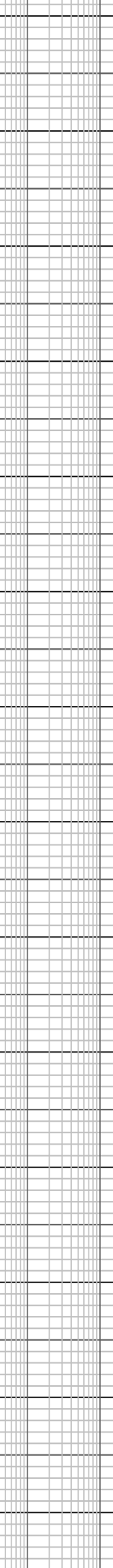
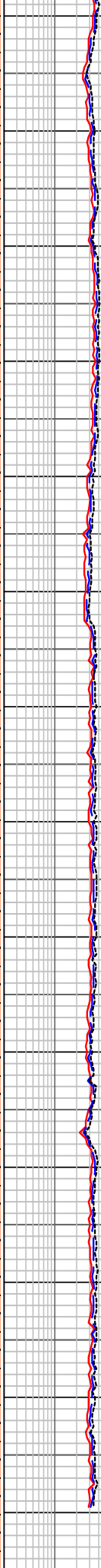
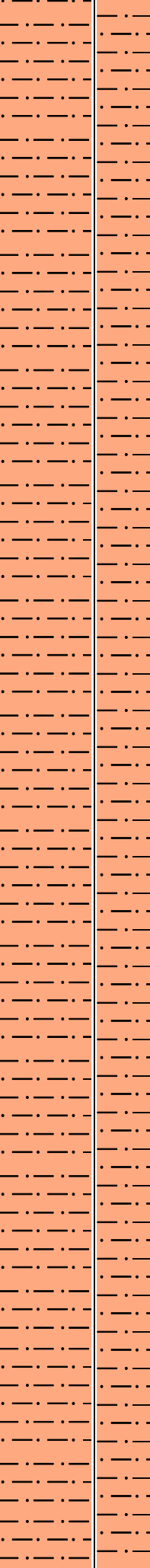
98/2/tr

97/2/1/tr

97/2/1/tr



1800
1810
1820
1830
1840
1850
1860
1870
1880
1890
1900
1910
1920
1930



brnsh gy, arg with clay content easily washed from samples, loc vf aren, rr liths, tr glauc, frm, disp i/p, blkly

SILTSTONE: pl brn, pl-m brn gy, gen arg, occ carb spks, mnr glauc grs, mnr micro mic, disp-v sft, frm i/p, amor sblky

Survey at 1836.56m
 Inc: 59.33°
 Azi: 117.70° TVD: 1654.10m

SILTSTONE: pl brn, mnr m-dk brn gy, com arg, occ carb spks, mnr mic mic, disp-v sft, frm i/p, amor, sblky

SILTSTONE: pl brn-occ pl gy, m-dk brn gy, arg, occ carb spks, mnr liths & calc incl, frm-mod hd, disp-v sft, amor, sblky-blky

Survey at 1865.80m
 Inc: 59.29°
 Azi: 117.83° TVD: 1669.10m

SILTSTONE: m-dk brn gy, pl brn i/p, arg, occ carb spks, mnr calc incl & glauc grs, frm-mod hd, v sft i/p, mnr hd, mnr amor, sblky-sbfiss

MW: 1.32 FV: 62 PV: 31 YP: 47
 GELS: 10/21/33 SOL: 10.17
 pH: 8.5 Ck: 0.5 CL: 59000

SILTSTONE: m-dk brn gy, pl brn i/p, arg, occ carb spks, mnr calc incl & glauc grs, frm-mod hd, sft i/p, mnr hd, sblky-sbfiss

HENRY-2 FORMATION EVALUATION LOG

			RESISTIVITY	CHROMATOGRAPH		CALC	REMARKS
WOB 10 20 30 40 <small>klbf</small>	MID meters 1:500	LITHOLOGY %	INTERPRETED LITHOLOGY	Resistivity (shallow) 2 20 200 <small>ohm.m</small>	Total Gas 1 10 100 1000 <small>unit</small>	Calcite 0 100	
ROP 200 20 <small>m/hr</small>				Resistivity (medium) 2 20 200 <small>ohm.m</small>	Methane	Dolomite 100 0	
Gamma 50 100 150 200 <small>API</small>				Resistivity (deep) 2 20 200 <small>ohm.m</small>	Ethane		
				Propane	<small>PFG</small>		
				i-Butane	<small>PFG</small>		
				n-Butane			
				i-Pentane			
				n-Pentane			
				100 1000 10000 100000 <small>ppm</small>			