



# FORMATION EVALUATION LOG

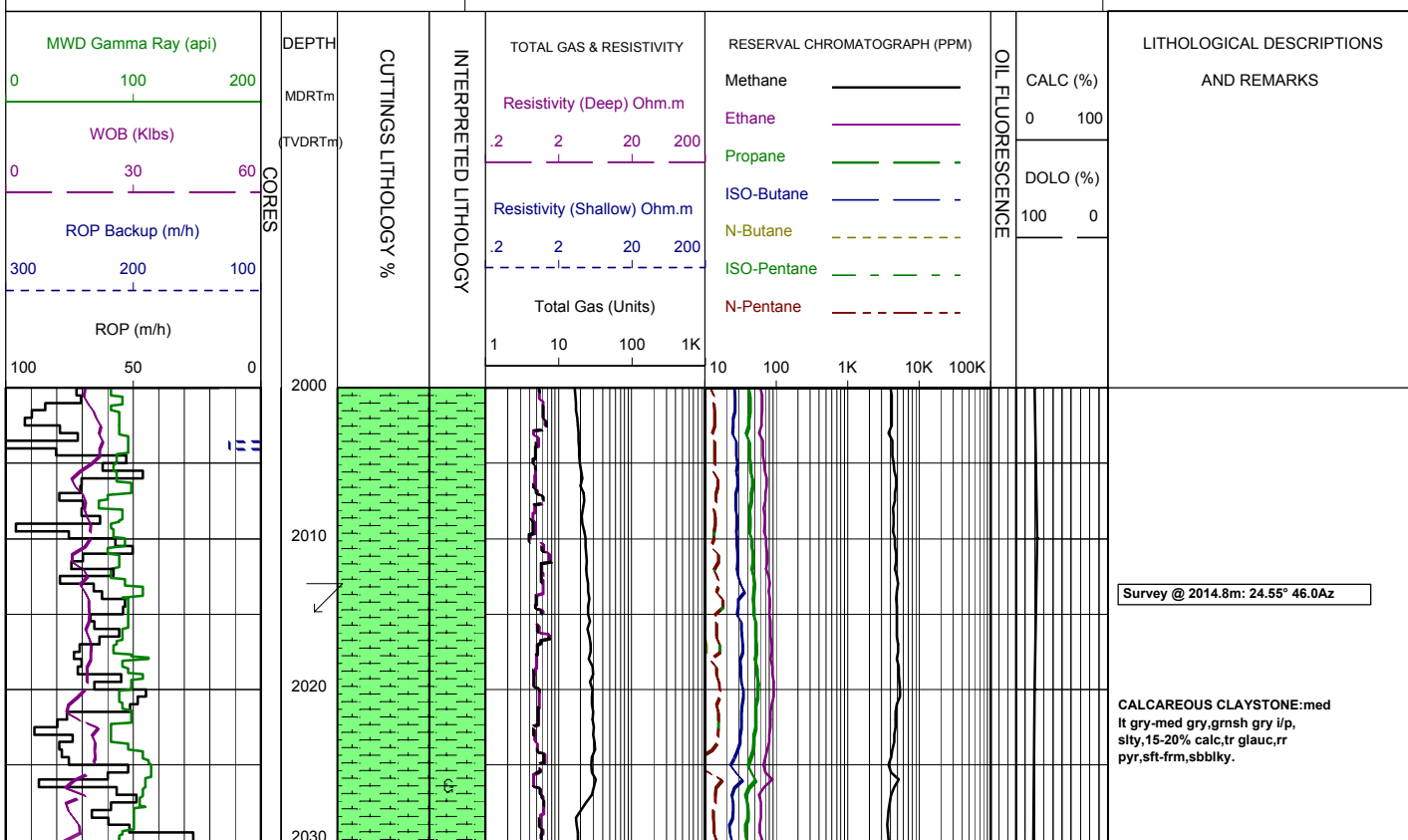


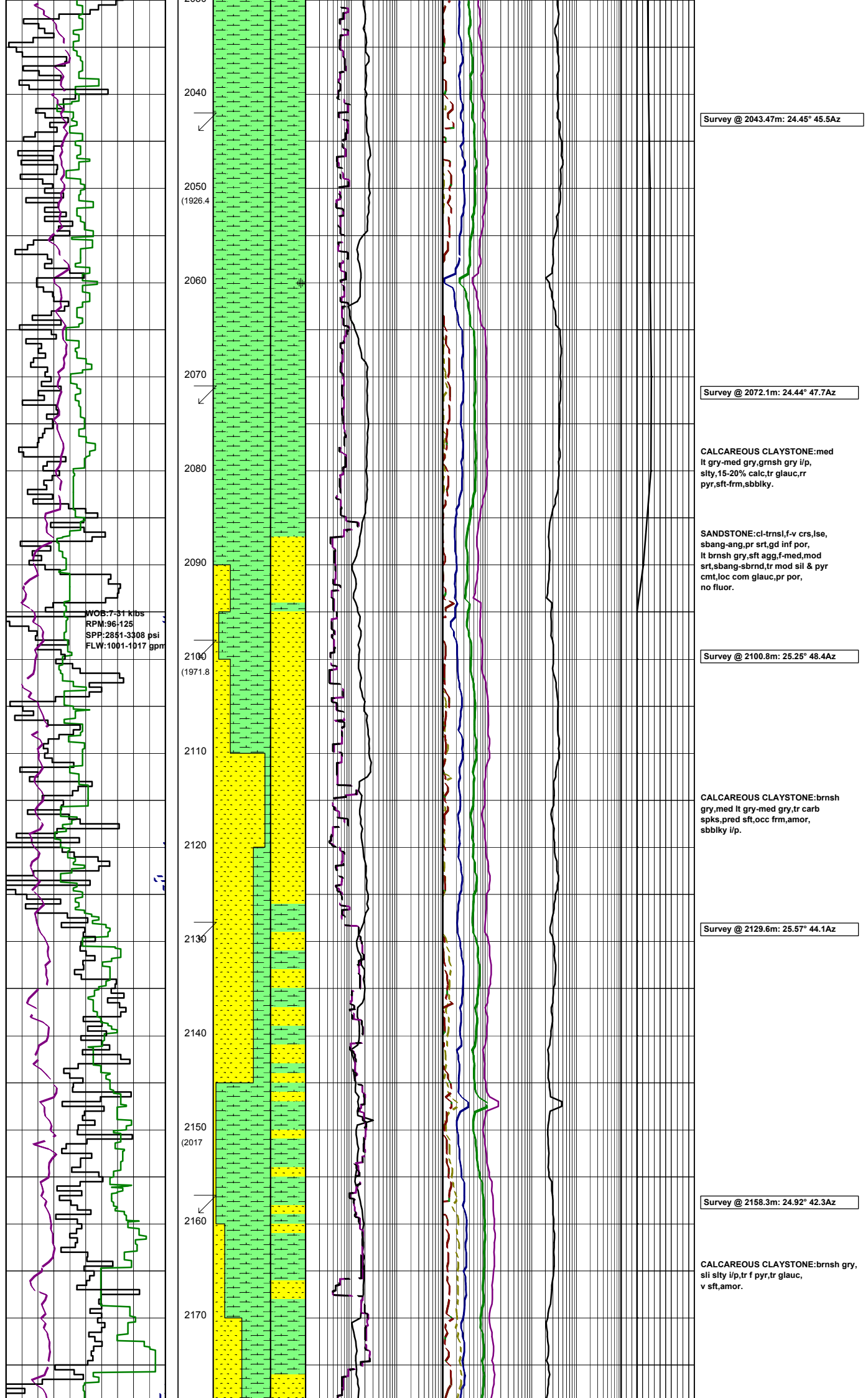
WELL : MANTA 2A

FROM (m): 2000 TO (m): 2560 SCALE: 1/ 500

Country : AUSTRALIA	Latitude : 38°16'39.41"S	HOLE / CASING INFO 17 1/2" Hole to (mMDRT) : 994.0m	Spud Date : 23-01-2006
Basin : GIPPSLAND	Longitude : 148°42'58.03"E	12 1/4" Hole to (mMDRT) : XXXX	Total Depth Date : XX-XX-2006
Field : MANTA	UTM Co-ord X (m E) : 649251.9	8 1/2" Hole to (mMDRT) : TD DEPTH	Total Depth (mRT) : TD DEPTH
Permit : VIC/L26	UTM Co-ord Y (m N) : 5759566.4	13 3/8" Shoe at (mMDRT) : 984.5m	T.V.D. (mSS MSL) : TD TVD
Well Type : DEVELOPMENT	RT-LAT (m) : 21.5	9 5/8" Shoe at (mMDRT) : XXXX	Status : STATUS
Rig Name : OCEAN PATRIOT	RT-Seabed (m) : 155.3	7" Shoe at (mMDRT) :	

<h3>ABBREVIATIONS</h3> <p>MW MUD WEIGHT NB NEW BIT          FV FUNNEL VISCOSITY RR RERUN BIT          PV PLASTIC VISCOSITY CB CORE BIT          YP YIELD POINT WOB WEIGHT ON BIT          FC FILTER CAKE RPM REVS PER MINUTE          SOL SOLIDS FLC FLOW CHECK          WL FILTRATE CR CIRCULATE RETURNS          SD SAND - % PR POOR RETURNS          S SALINITY - PPM NR NO RETURNS          RM MUD RESISTIVITY BG BACKGROUND GAS          RMF MUD FILTRATE TG TRIP GAS          C CARBIDE TEST STG SHORT TRIP GAS          LAT LOGGED AFTER TRIP CG CONNECTION GAS          DS DEVIATION SURVEY SG SWAB GAS          SVG SURVEY GAS</p>	<h3>LITHOLOGY LEGEND</h3> <table border="0"> <tr> <td></td> <td>Claystone</td> <td></td> <td>Limestone</td> <td></td> <td>Brachiopoda</td> </tr> <tr> <td></td> <td>Siltstone</td> <td></td> <td>Dolomite</td> <td></td> <td>Cement</td> </tr> <tr> <td></td> <td>Shale</td> <td></td> <td>Coal</td> <td></td> <td>Sponges</td> </tr> <tr> <td></td> <td>Fine SST</td> <td></td> <td>Volcanics</td> <td></td> <td>Glauconite</td> </tr> <tr> <td></td> <td>Medium SST</td> <td></td> <td>Lithic Fragment</td> <td></td> <td>Pyrite</td> </tr> <tr> <td></td> <td>Coarse SST</td> <td></td> <td>Foraminifera</td> <td></td> <td>Iron Minerals</td> </tr> <tr> <td></td> <td>Marl</td> <td></td> <td>Fossils</td> <td></td> <td>Mica</td> </tr> <tr> <td></td> <td>Calc Claystone</td> <td></td> <td>Bryozoa</td> <td></td> <td>Carb Fragments</td> </tr> </table>		Claystone		Limestone		Brachiopoda		Siltstone		Dolomite		Cement		Shale		Coal		Sponges		Fine SST		Volcanics		Glauconite		Medium SST		Lithic Fragment		Pyrite		Coarse SST		Foraminifera		Iron Minerals		Marl		Fossils		Mica		Calc Claystone		Bryozoa		Carb Fragments	<h3>ENGINEERING LEGEND</h3> <p> Shoe ← FIT   Bit Trip ↗ Mud loss   Deviation survey   DST ↖ Mud gain   TEST   Sidewall Core   Core   Wiper Trip   RFT</p>
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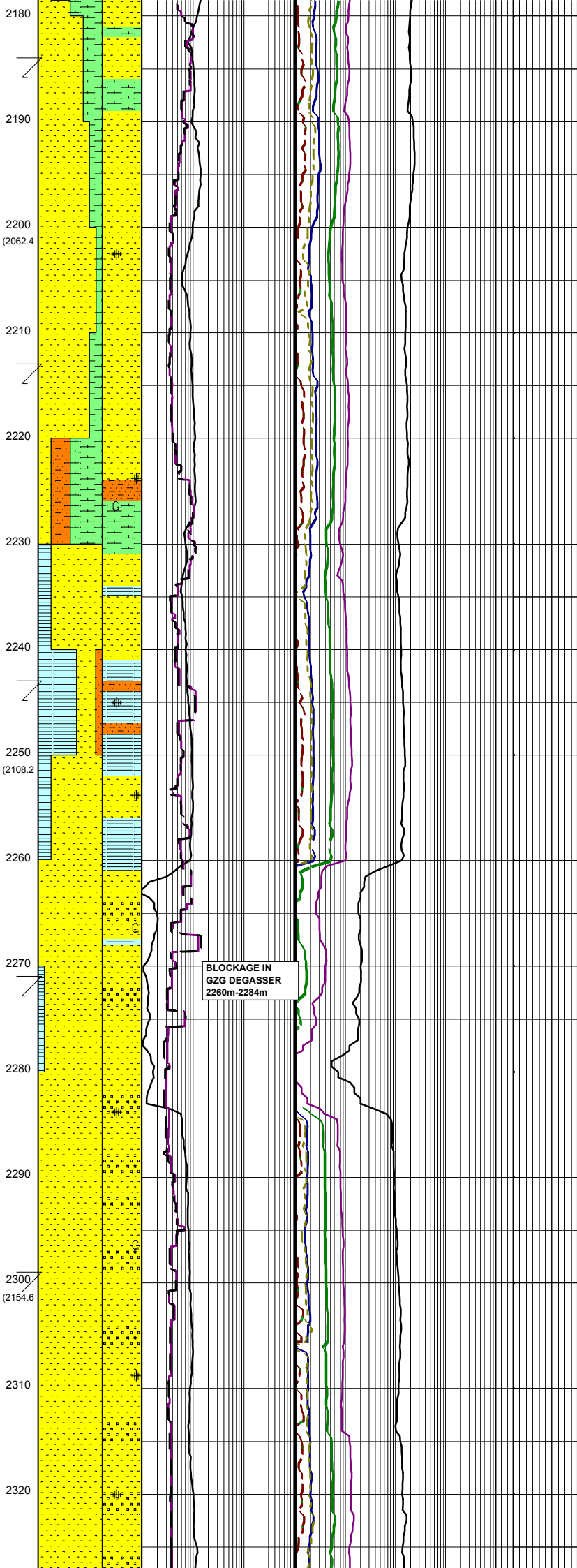




WOB: 8-25 klbs  
RPM: 61-127  
SPP: 2392-3377 psi  
FLW: 764-1029 gpm

31-01-2006

WOB: 20-25 klbs  
RPM: 130  
SPP: 3360 psi  
FLW: 990-1090 gpm



Survey @ 2186.9m: 24.73° 41.3Az

SANDSTONE:clr-trmsl,frstd,lse,lt gry,f-v crs,v pr srt,sbang-pred sbrnd,wk sil cmt,tr wk calc cmt, tr wh kaol & gry slty mtx,occ pyr, fr-gd inf por,no fluor.

Survey @ 2215.5m: 24.18° 43.0Az

SILTSTONE:lt gry,olv gry,tr pl brn,occ mott wh/gry,pred aren grd to slty SST,com arg,tr calc, tr-occ carb spks,tr-occ dissem & nod pyr,rr glauc incl, v sft-disp,sbbkly-amor.

CLAYSTONE:brnsh gry,med-lt gry, carb spks,tr micmic,sft,amor-sbbkly i/p.

Survey @ 2244.2m: 22.33° 45.2Az

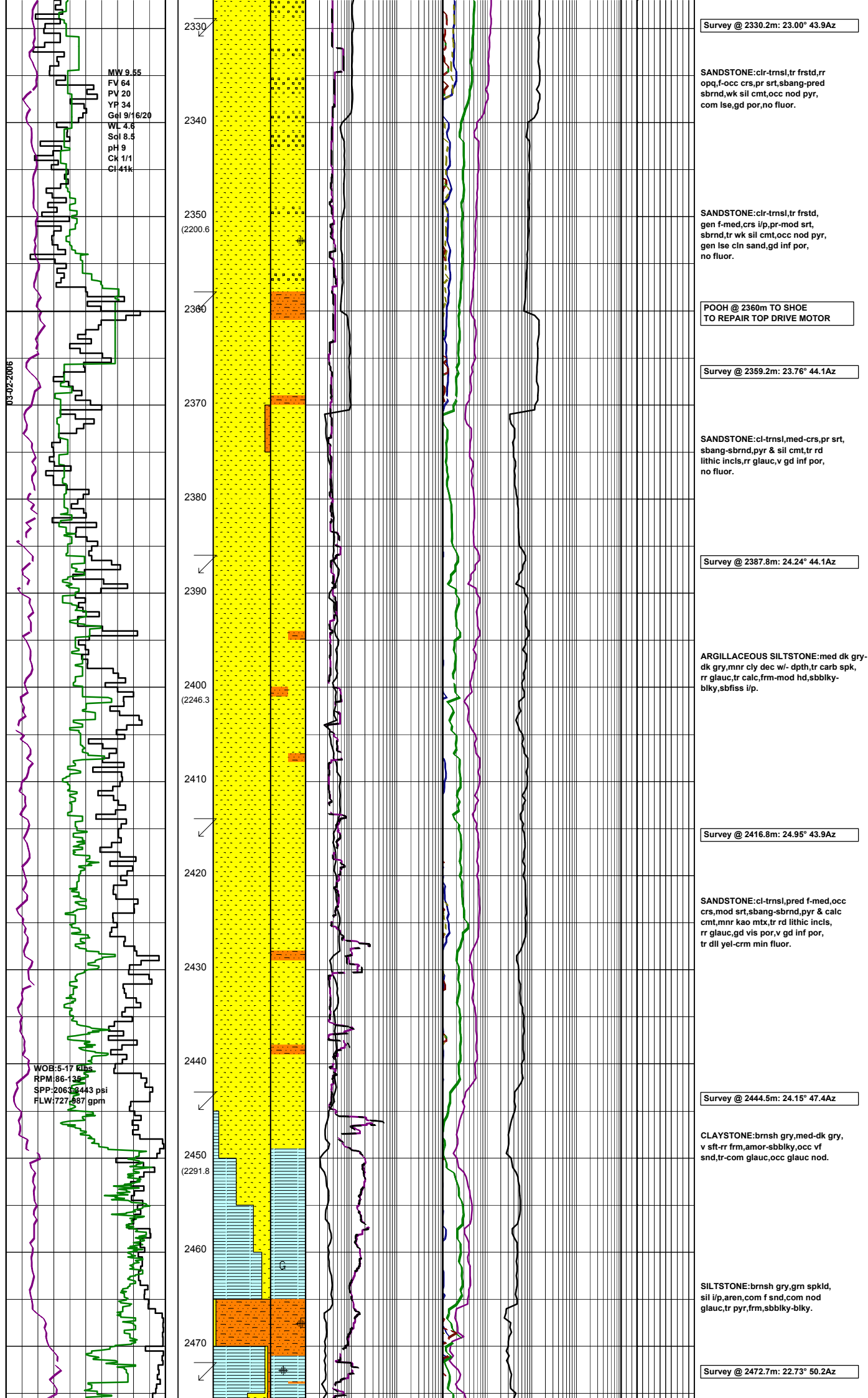
SANDSTONE:cl,tnsl,occ wh,occ yel stn grs,lse,vf-crs,dm f-med, mod srt,sbrnd-rnd,sbspher-spher, tr pyr cmt,tr carb grs,gd por, no fluor.

Survey @ 2272.8m: 21.89° 45.1Az

CLAYSTONE:lt gry-lt olv gry, com slty,aren i/p,calc i/p,tr pyr nods,rr carb spks & glauc incl, v sft-frn,sbbkly-blky.

Survey @ 2301.5m: 22.34° 45.3Az

SANDSTONE:clr,tnsl,frstd,occ med gry,f-v crs,v pr srt,sbang-pred ang,wk sil cmt,wk dol cmt, occ pyr mtx,rr glauc,lse-occ fri,mod hd i/p,fr-gd inf por, fr vis por,no fluor.



MW 9.55  
 FV 64  
 PV 20  
 YP 34  
 Gel 9/16/20  
 WL 4.6  
 Sol 8.5  
 pH 9  
 CK 1/1  
 Cl 44k

03-02-2006

WOB: 5.17 klb  
 RPM: 86-130  
 SPP: 2063-3443 psi  
 FLW: 727-887 gpm

Survey @ 2330.2m: 23.00° 43.9Az

SANDSTONE: cl-trnsl, tr frstd, rr opq, f-occ crs, pr srt, sbang-pred sbrnd, wk sil cmt, occ nod pyr, com lse, gd por, no fluor.

SANDSTONE: cl-trnsl, tr frstd, gen f-med, crs i/p, pr-mod srt, sbrnd, tr wk sil cmt, occ nod pyr, gen lse cln sand, gd inf por, no fluor.

POOH @ 2360m TO SHOE TO REPAIR TOP DRIVE MOTOR

Survey @ 2359.2m: 23.76° 44.1Az

SANDSTONE: cl-trnsl, med-crs, pr srt, sbang-sbrnd, pyr & sil cmt, tr rd lithic incl, rr glauc, v gd inf por, no fluor.

Survey @ 2387.8m: 24.24° 44.1Az

ARGILLACEOUS SILTSTONE: med dk gry-dk gry, mnr cly dec w- dpth, tr carb spk, rr glauc, tr calc, frm-mod hd, sbbiky-biky, sbfiss i/p.

Survey @ 2416.8m: 24.95° 43.9Az

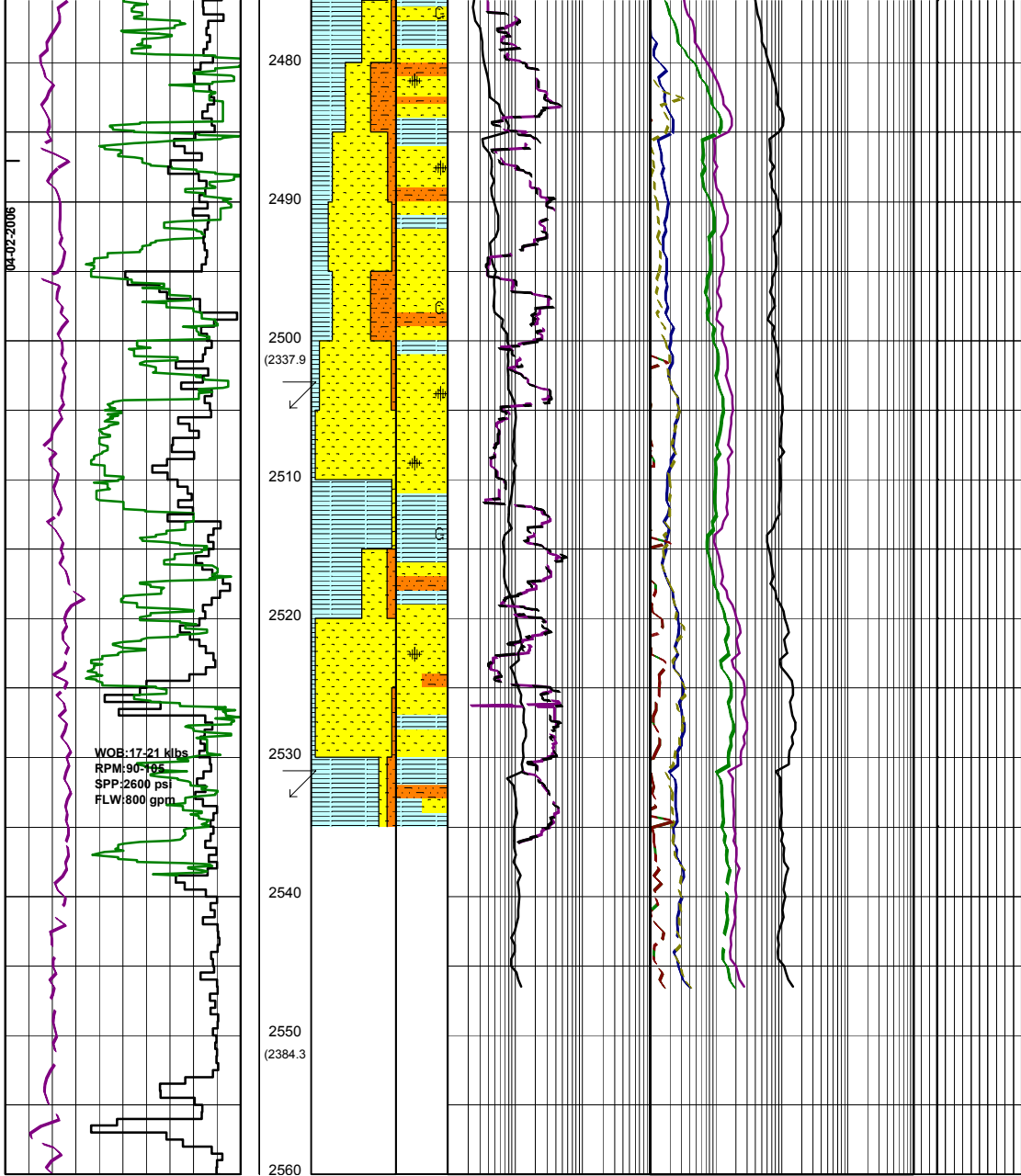
SANDSTONE: cl-trnsl, pred f-med, occ crs, mod srt, sbang-sbrnd, pyr & calc cmt, mnr kao mt, tr rd lithic incl, rr glauc, gd vis por, v gd inf por, tr dll yel-crm min fluor.

Survey @ 2444.5m: 24.15° 47.4Az

CLAYSTONE: brnsh gry, med-dk gry, v sft-rr frm, amor-sbbiky, occ vf snd, tr-com glauc, occ glauc nod.

SILTSTONE: brnsh gry, gm spkld, sil i/p, aren, com f snd, com nod glauc, tr pyr, frm, sbbiky-biky.

Survey @ 2472.7m: 22.73° 50.2Az



SANDSTONE: cl-trnsl, tr mlky, f-med, occ crs, mod-pr srt, sbang, pyr & calc cmt, mnr kaol mtx, tr rd lithic incl, rr glauc, fr vis por, v gd inf por, no fluor.

CLAYSTONE: med gry, lt gry, brn i/p, v sft-rr frm, occ pys, rr glauc, sft-washing out, rr glauc, amor-tr sbbiky.

SILTSTONE: med brn, gry/brn, com arg, tr aren, occ micmic, com carb spks, carb lam i/p, nod pyr, sft-loc frm, sbbiky-occ amor.

Survey @ 2501.2m: 21.95° 55.9Az

SANDSTONE: cl-trnsl, tr mlky, rr opq, f-occ med, crs i/p, mod-pr srt, sbang, occ pyr cmt, tr calcite cmt, tr kaol /slyt mtx, rr glauc, com lse, pr vis por, fr-gd inf por, no fluor.

ARGILACEOUS CLAYSTONE: med brn, gry/brn, pl gry i/p, com arg, occ carb & micmic i/p, glauc, tr nod pyr, sft, loc frm, amor-sbbiky.

SANDSTONE: cl-trnsl, tr mlky, rr opq, f-occ med, crs i/p, mod-pr srt, sbang-occ sbrnd, tr pyr cmt, tr calcite cmt, rr kaol/slyt mtx, pred lse, hd aggs, pr vis por, fr inf por, no fluor.

Survey @ 2530.1m: 21.84° 59.8Az