MASTERLOG
BASKER 2

Anzon Australia LIMITED

Geoservices

GENERAL

Country : AUSTRALIA
Permit : VIC RL6
Field : BASKER
Basin : GIPPSLAND
Well Type : APPRAISAL
Rig Name : Ocean Patriot

POSITION

Latitude : 38°17'58.51"S
Longitude : 148°42'24.72"E
UTM Co-ord X (m E): 649251.9
UTM Co-ord Y (m N): 5759566
RT to MSL (m): 21.5
RT to Sea Bed (m): 174

HOLE / CASING INFO

17 1/2" Hole to (mMDRT): 1006
12 1/4" Hole to (mMDRT) :
8 1/2" Hole to (mMDRT) :
30" Conductor @ (mMDRT) : 208
13 3/8" Shoe @ (mMDRT) : 1000
9 5/8" Shoe @ (mMDRT) :

DATE / DEPTH

Spud Date : 14-08-2005
Total Depth Date :
Total Depth (mMDRT):
True Vertical Depth (mTVDSS):
Log Scale : 1/ 500
Final Status :

ENGINEERS

D. ADDERLEY
A. DUNN
S. RAJA
P. RADY

ABBREVIATIONS

MW	Mud Weight	WOB	Weight on Bit (klbs)
FV	Funnel Viscosity	RPM	Rotations Per Min
PV	Plastic Viscosity	FLW	Flow Rate (gpm)
YP	Yield Point	SPP	Pump Pressure (psi)
Gel	Gel Strength	RR	Re-Run Bit
WL	Water Loss	TG	Trip Gas
KCl	Potassium Chloride	CG	Connection Gas
Cl	Chlorides	BG	Background Gas
Incl	Inclination	DGP	Drilled Gas Peak
Az	Azimuth	MM	Mud Motor

LITHOLOGY LEGEND

Marl
Clay, Sand Lime
do. Shale
ca. Shale
sandy Shale
si. Claystone
Quartzite
ar. Sandstone
bitum. Shale (b
Claystone
Fine SST
sa. Shale
Siltstone
f to vf Sand f
Fossils
Algae
Lithic Fragment
Belemnits
Rudists
Sponges
Sporomorphs
Tigillites
Vertebrates
Wood silicified

ENGINEERING LEGEND

Essai non concl
Aucun fluide re
Test
Filtrat
Deviation surve
Mud gain
Boue
Mud loss
RFT
FIT
DST
Cement

ROP (m/hr) 100 80 60 40 20 0
WOB (klbs) 50 25 0
MWD Gamma Ray (api) 0 100 200
DEPTH (m) (TVD)
CUTTINGS LITHOLOGY % 0 100
INTERPRETIVE
RESERVAL TG & CHROMATOGRAPH
C1 C2 C3 iC4 nC4 iC5 nC5 TG
Total Gas in ppm
Chromatograph in ppm
1 10 100 1K 10K 100K
CALCIMETRY % 0 100
DIRECT FLUOR poor fair good
LITHOLOGY DESCRIPTIONS and REMARKS

1000
1010
1020
1030
1040
1050

16-08-05
20-08-05

WOB: 8-10 klbs
RPM: 170-185(Surf+MM)
SPP: 1200-1550 psi
FLW: 735-860 gpm

MW 8.7
FV 48
PV/YP 8/12
ECD 8.8
Gel 3/3/4
WL 15
Sol 8
pH 10.3
Cl 44K

BIT #3 Security DBS PDC
SIZE:12.25" JETS:3x18,3x16
IN: 1006m OUT: 2497m
RUN: 1491m HRS: 43.2
COND: 0-0-NO-A-E-I-RR-TD

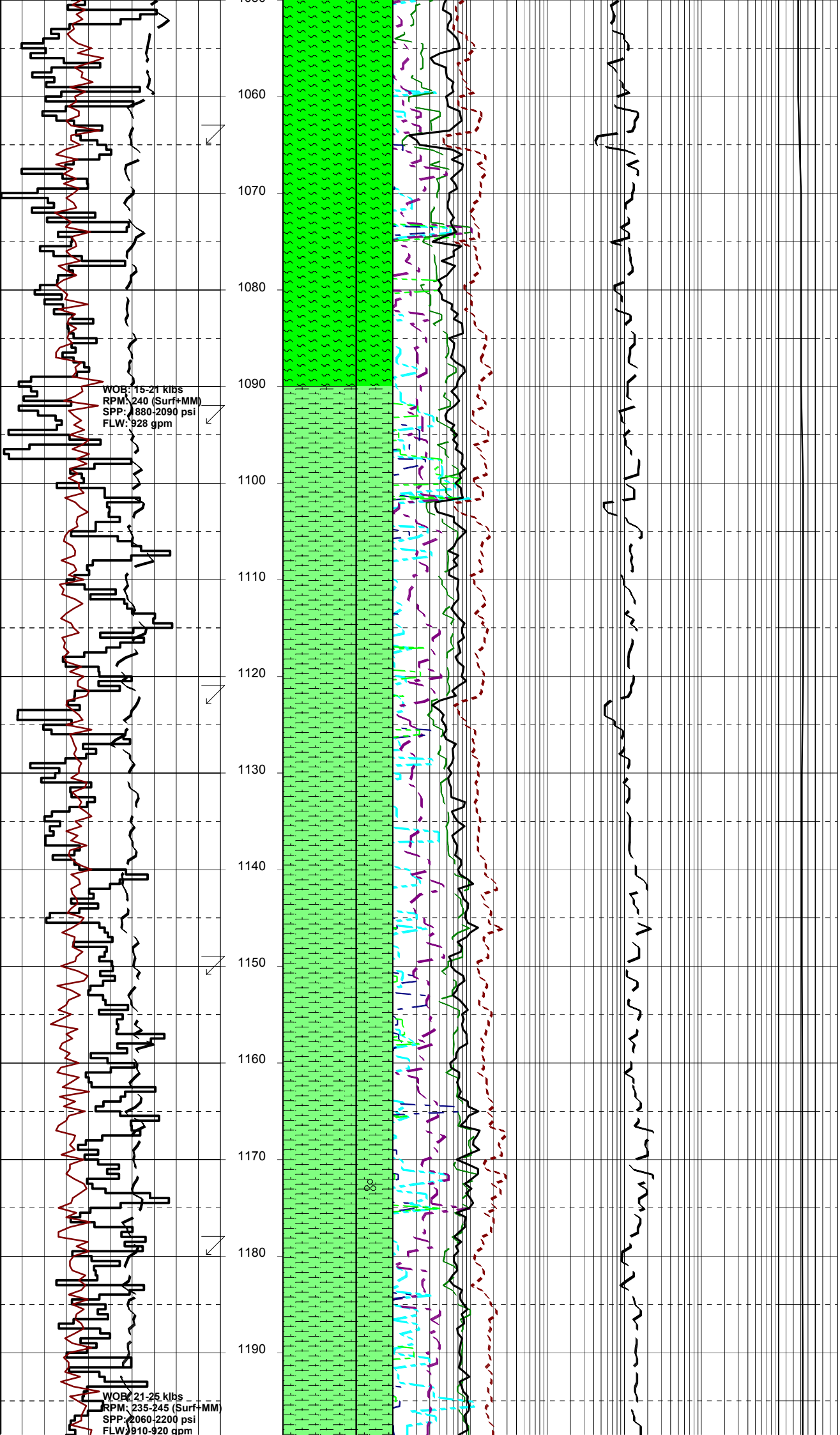
KCl/PHPA/Glycol Mud System

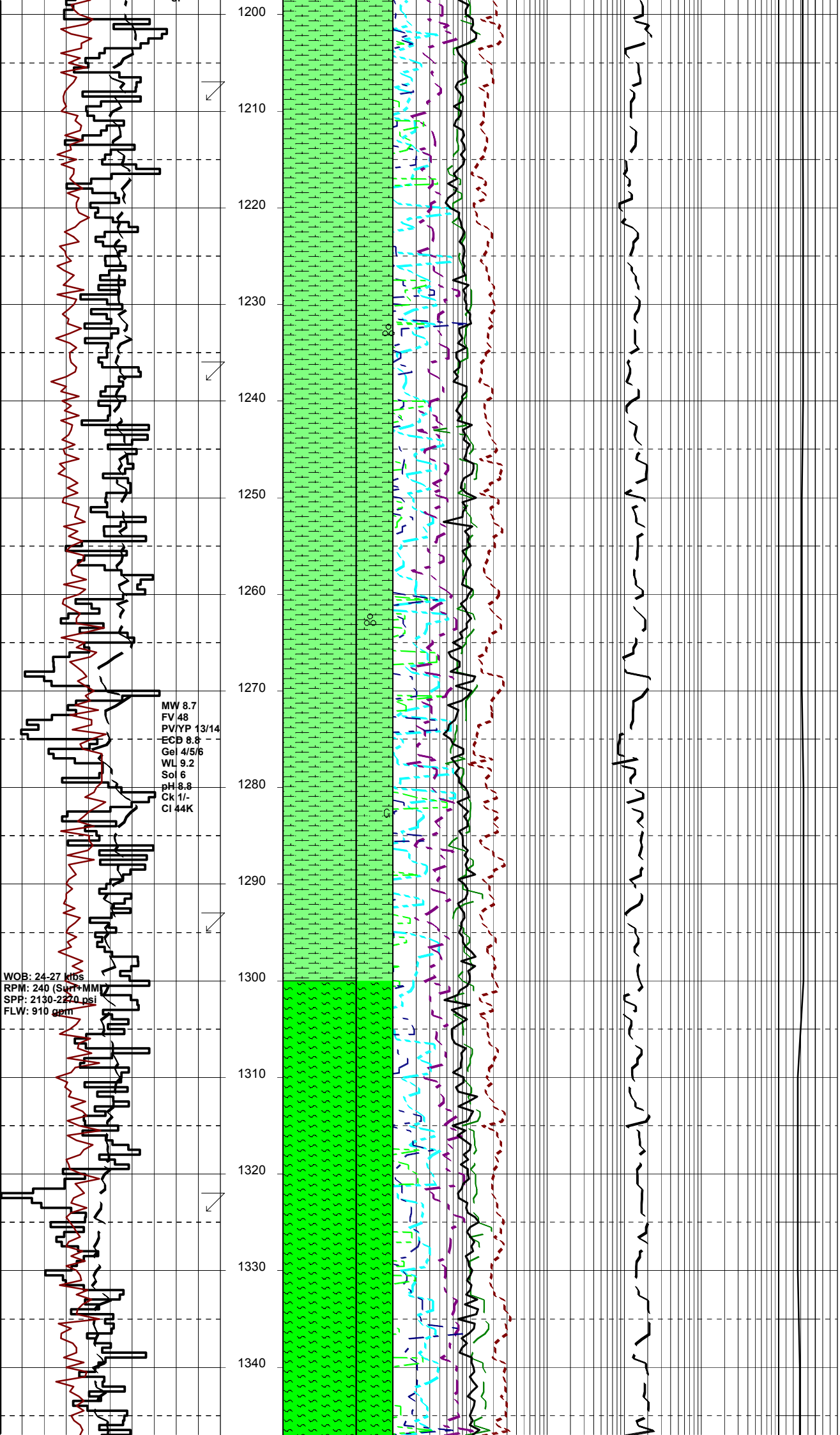
Survey @ 1007.6m: 0.12° 324.0Az

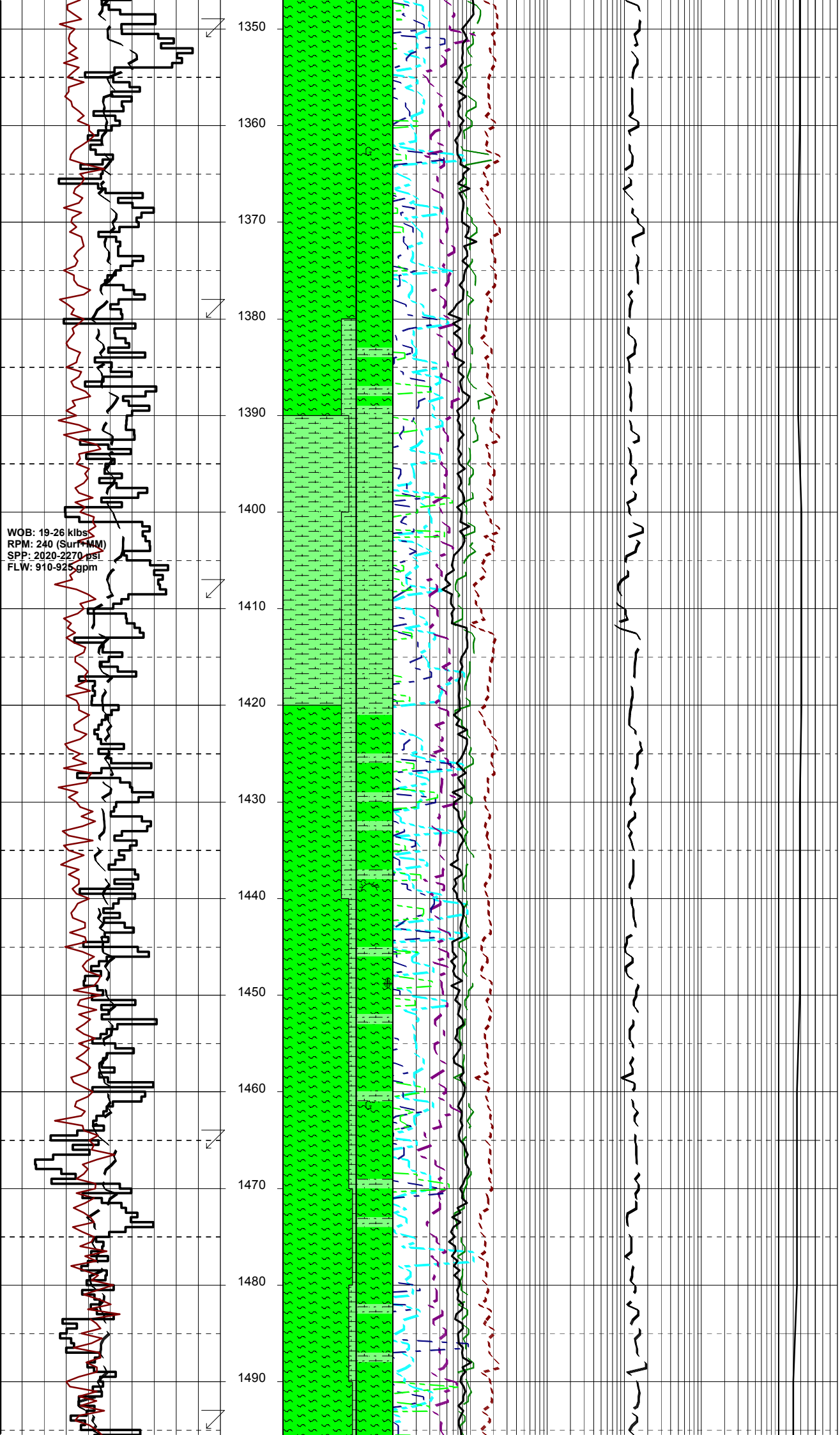
MARL:yel gry,lt olv gry,v lt gry, aren i/p,arg,mnr carb spks & lams,v sft-sft,blky.

Survey @ 1036.3m: 0.18° 300.5Az

MARL:yel gry,olv gry i/p,lt gry, aren i/p,arg,mnr carb spks & lams,tr LMST frags,v sft-sft, mod hd i/p,blky.


1060
1070
1080
1090
1100
1110
1120
1130
1140
1150
1160
1170
1180
1190
WOB: 15-21 klbs
RPM: 240 (Surf+MM)
SPP: 1880-2090 psi
FLW: 928 gpm
WOB: 21-25 klbs
RPM: 235-245 (Surf+MM)
SPP: 2060-2200 psi
FLW: 910-920 gpm
Survey @ 1065.0m: 0.18° 5.0Az
MARL:a/a.
Survey @ 1093.9m: 0.22° 331.1Az
ARGILLACEOUS LIMESTONE: lt gry,lt olv gry,mnr yel gry,com slty,mnr aren,occ carb spks,rr glauc spks,v sft-sft,blky-sbblky.
Survey @ 1122.8m: 0.14° 342.3Az
ARGILLACEOUS LIMESTONE: lt gry,lt olv gry,mnr yel gry,com slty,mnr aren,occ carb spks,rr carb lams,v sft-sft,blky-sbblky.
Survey @ 1151.7m: 0.31° 339.3Az
ARGILLACEOUS LIMESTONE: v lt-lt gry,yel gry,lt olv gry,com slty,mnr vf aren,mod com carb spks,rr carb lams,v sft-sft,rr mod frm,blky-sbblky.
Survey @ 1180.5m: 0.25° 318.6Az
ARGILLACEOUS LIMESTONE: v lt-lt gry,occ yel gry-lt olv gry, com slty,mnr vf aren,mod com carb spks,rr forams,v sft-sft,rr mod frm,blky-sbblky.
ARGILLACEOUS LIMESTONE: gen a/a,rr pyr foss.


1200
1210
1220
1230
1240
1250
1260
1270
1280
1290
1300
1310
1320
1330
1340
MW 8.7
FV 48
PV/YP 13/14
ECD 8.8
Gel 4/5/6
WL 9.2
Sol 6
pH 8.8
Ck 1/-
Cl 44K
WOB: 24-27 klbs
RPM: 240 (Surf+MM)
SPP: 2130-2220 psi
FLW: 910 gpm
Survey @ 1209.3m: 0.31° 340.9Az
ARGILLACEOUS LIMESTONE: v lt-lt gry,occ yel gry-lt olv gry, com slty,mnr vf aren,rr off wh-pl yel gry LMST frags,occ carb spks,v sft-sft,rr mod frm,blky -sbblky.
Survey @ 1237.9m: 0.31° 337.8Az
ARGILLACEOUS LIMESTONE: v lt-lt gry,occ yel gry-lt olv gry, slty,mnr vf aren,tr off wh-pl yel gry LMST frags,occ carb spks,rr forams,v sft-frm,rr mod hd,blky-sbblky.
ARGILLACEOUS LIMESTONE: lt gry-lt olv gry,yel gry,slty, mnr vf aren,tr off wh LMST frags,occ carb spks,rr carb lams,rr glauc spks,rr forams,v sft-frm,blky-sbblky.
Survey @ 1295.0m: 0.41° 316.4Az
ARGILLACEOUS LIMESTONE: a/a,rr mod hd.
Survey @ 1323.3m: 0.41° 318.0Az
MARL:lt gry,lt olv gry,occ yel gry,slty,mnr vf aren,tr off wh LMST frags,tr-occ carb spks,rr glauc spks,v sft-frm, blky-sbblky.



Survey @ 1351.8m: 0.50° 308.2Az

MARL:lt gry,lt olv gry,occ yel gry,slty,mnr vf aren,tr off wh LMST frags,tr-occ carb spks,tr glauc spks,rr forams,rr pyr foss,sft-frm,blky-sbblky.

Survey @ 1380.3m: 0.45° 323.7Az

MARL:lt gry,lt olv gry,yel gry, slty,vf aren i/p,tr-occ carb spks,tr glauc spks,sft-frm, sbblky-blky.

CALCARENITE:lt yel brn,vf grad to aren MARL,pr srt,sa-sr,wk-mod calc cmt abdt brn slty mtx, fri-occ mod hd,v pr vis por,no fluor.

Survey @ 1408.9m: 0.56° 313.7Az

ARGILLACEOUS LIMESTONE: yel gry,lt olv gry,gry,slty,vf aren i/p,occ carb spks,rr glauc spks, v sft-frm,sbblky-blky,amorph.

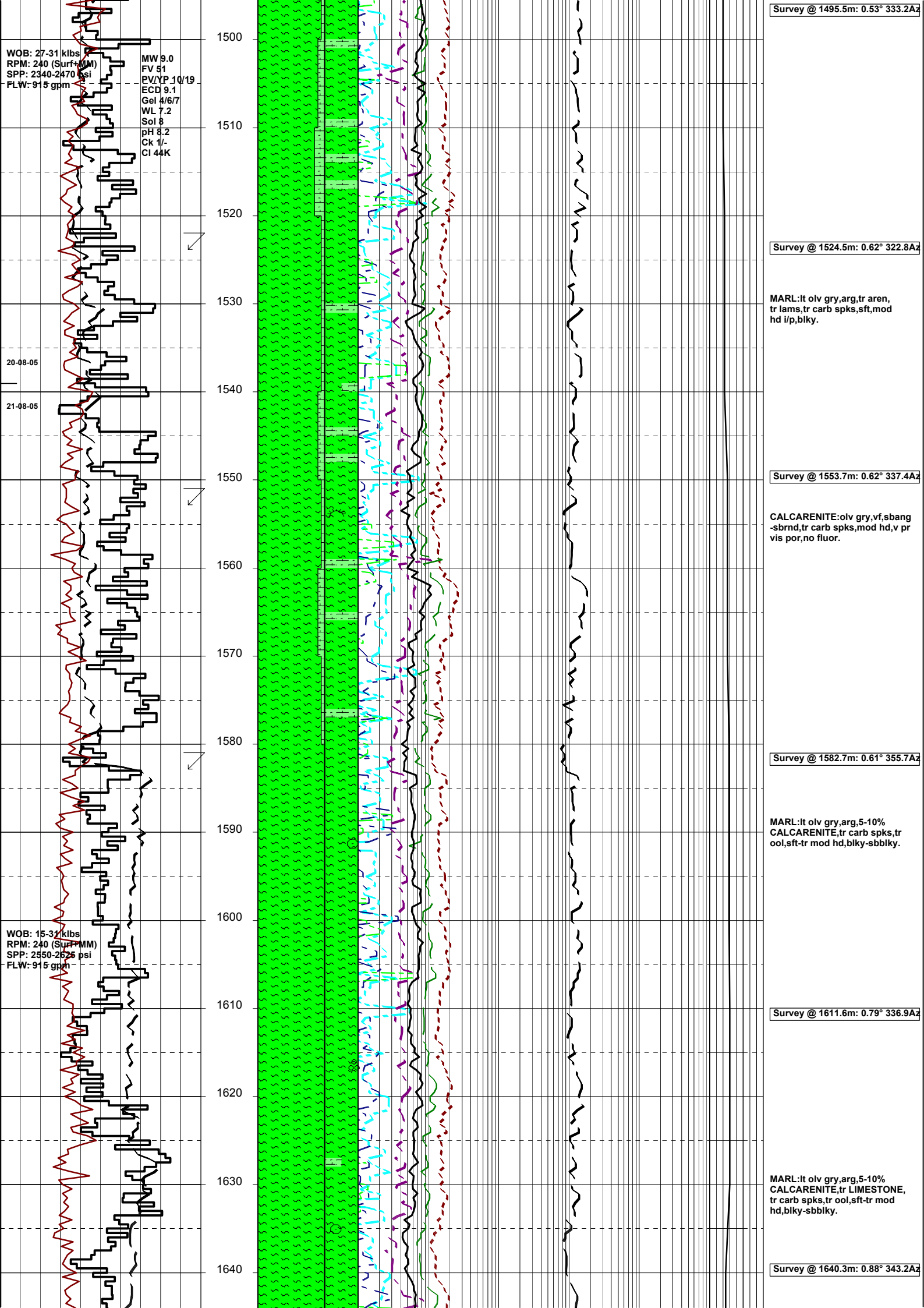
CALCARENITE:pl yel brn-lt gry, vf grd to aren MARL,pr srt, sbang-sbrnd,wk-mod calc cmt, abdt gry-brn slty mtx,fri-occ mod hd,v pr vis por,no fluor.

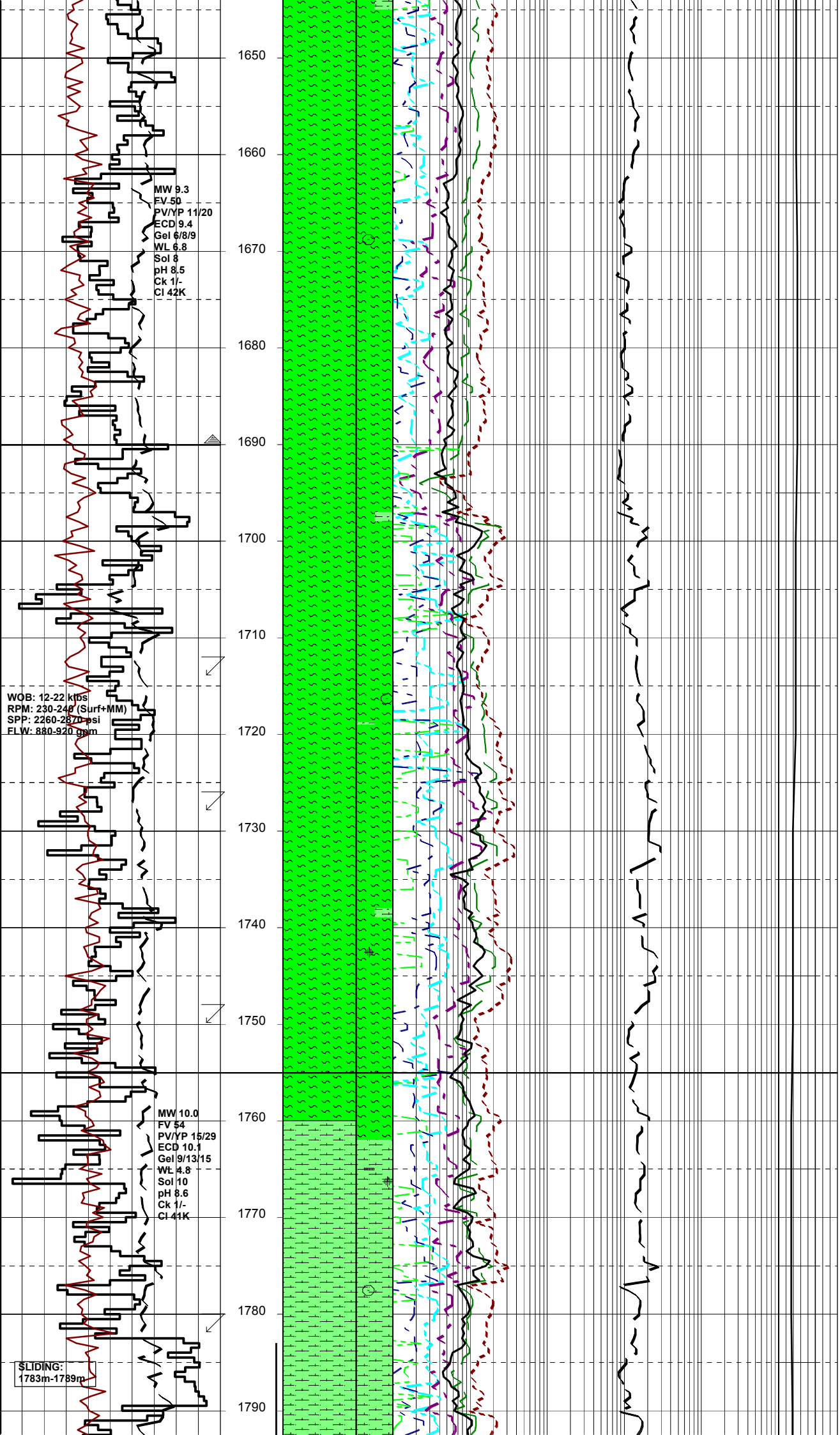
MARL:lt yel brn-pl olv,pred arg, vf aren grd to CALCAREN i/p, tr carb spks,rr glauc spks,rr echino,rr pyr nods,sft-frm, sbblky-blky.

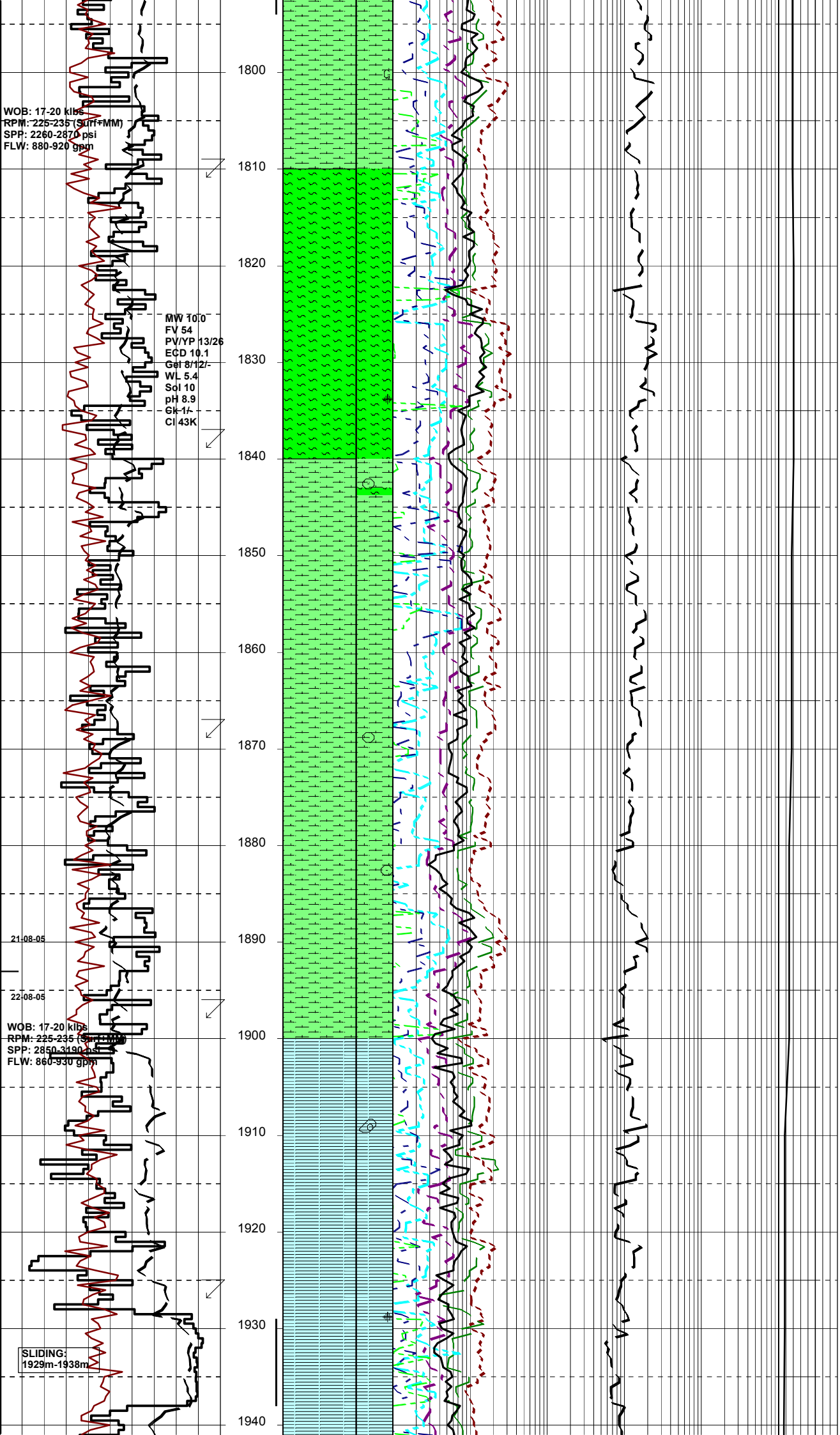
Survey @ 1466.4m: 0.57° 319.4Az

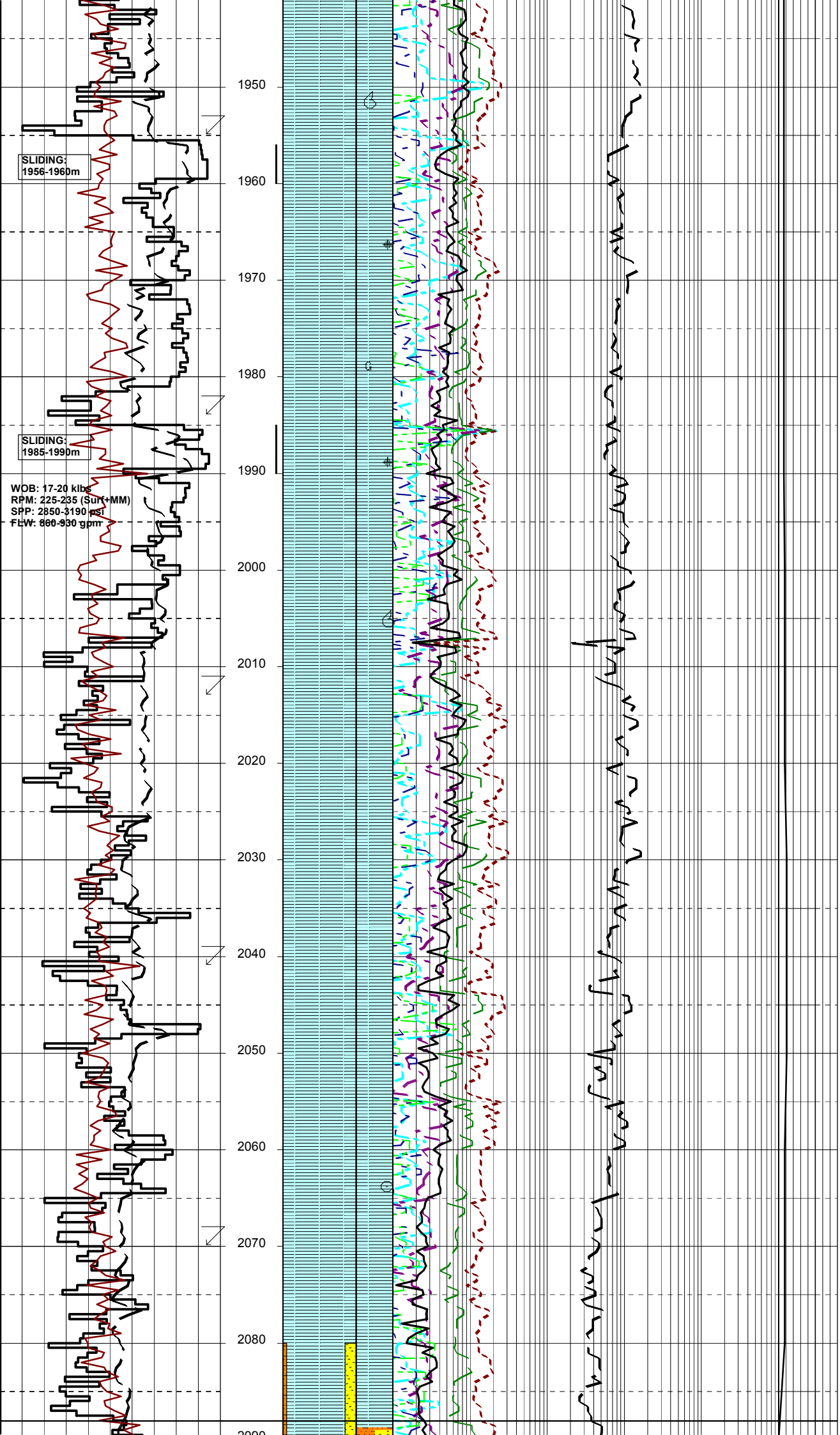
MARL:lt yel brn-pl olv,pred arg, vf aren grd to CALCARENITE i/p,tr carb spks,rr glauc spks, rrforam,rr pyr nods,sft-frm,sbblky-blky.

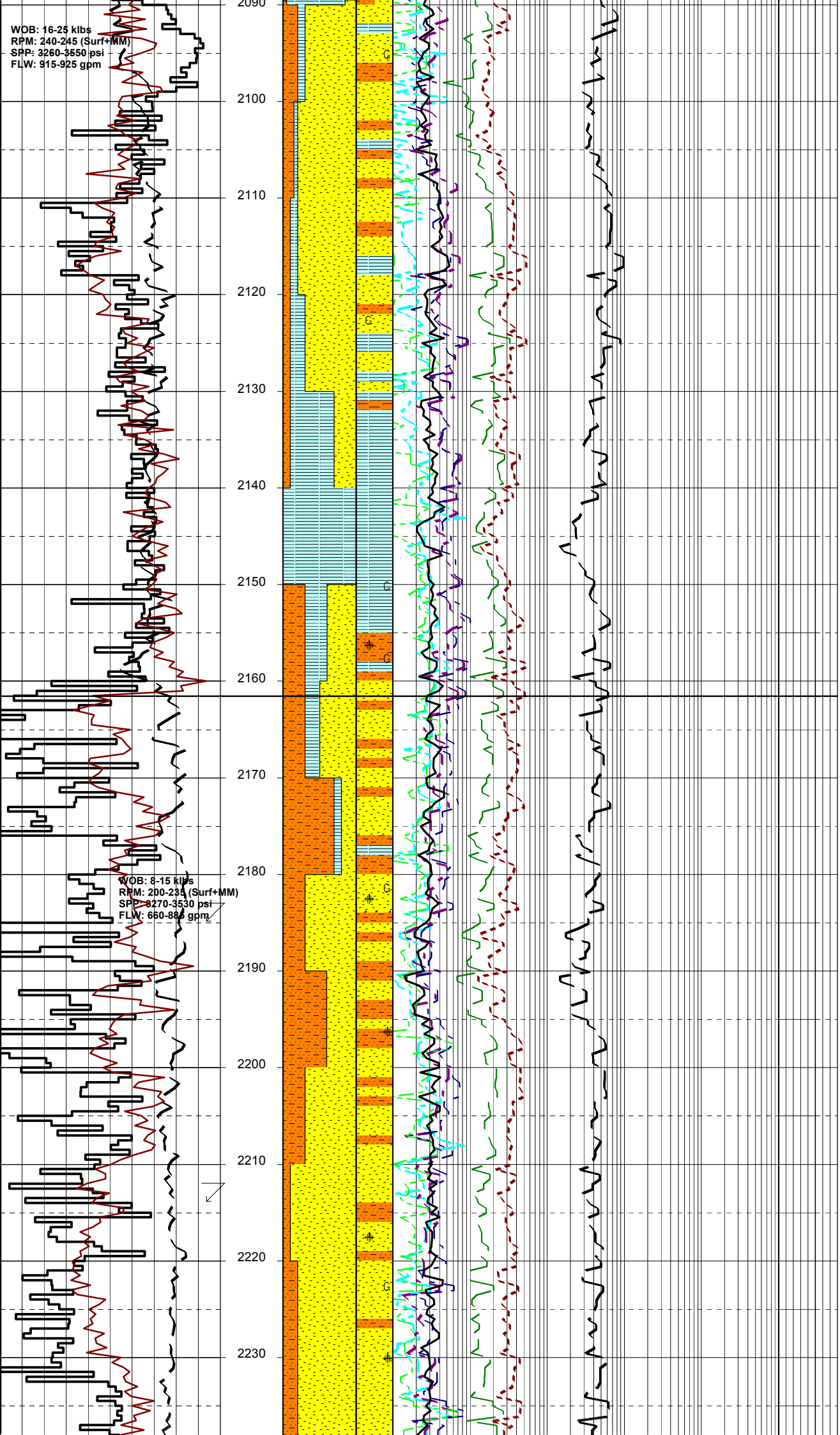
CALCARENITE:a/a.


WOB: 27-31 klbs
RPM: 240 (Surf+MM)
SPP: 2340-2470 psi
FLW: 915 gpm
MW 9.0
FV 51
PV/YP 10/19
ECD 9.1
Gel 4/6/7
WL 7.2
Sol 8
pH 8.2
Ck 1/-
Cl 44K
1500
1510
1520
1530
20-08-05
1540
21-08-05
1550
1560
1570
1580
1590
1600
WOB: 15-31 klbs
RPM: 240 (Surf+MM)
SPP: 2550-2625 psi
FLW: 915 gpm
1610
1620
1630
1640
Survey @ 1495.5m: 0.53° 333.2Az
Survey @ 1524.5m: 0.62° 322.8Az
MARL:lt olv gry,arg,tr aren, tr lams,tr carb spks,sft,mod hd i/p,blky.
Survey @ 1553.7m: 0.62° 337.4Az
CALCARENITE:olv gry,vf,sbang -sbrnd,tr carb spks,mod hd,v pr vis por,no fluor.
Survey @ 1582.7m: 0.61° 355.7Az
MARL:lt olv gry,arg,5-10% CALCARENITE,tr carb spks,tr ool,sft-tr mod hd,blky-sbblky.
Survey @ 1611.6m: 0.79° 336.9Az
MARL:lt olv gry,arg,5-10% CALCARENITE,tr LIMESTONE, tr carb spks,tr ool,sft-tr mod hd,blky-sbblky.
Survey @ 1640.3m: 0.88° 343.2Az


1650
1660
1670
1680
1690
1700
1710
1720
1730
1740
1750
1760
1770
1780
1790
MW 9.3
FV 50
PV/YP 11/20
ECD 9.4
Gel 6/8/9
WL 6.8
Sol 8
pH 8.5
Ck 1/-
Cl 42K
WOB: 12-22 klbs
RPM: 230-240 (Surf+MM)
SPP: 2260-2870 psi
FLW: 880-920 gpm
MW 10.0
FV 54
PV/YP 15/29
ECD 10.1
Gel 9/13/15
WL 4.8
Sol 10
pH 8.6
Ck 1/-
Cl 41K
SLIDING:
1783m-1789m
MARL:olv gry,arg,tr LIMESTONE, 5-10% CALCARENITE,tr carb spks & lams,tr ool,sft-mnr frm, blky-sbblky.
WIPER TRIP TO PICK UP MORE DRILL PIPE
MARL:lt olv gry-lt gry,lt brn gry, arg,5-10% CALCARENITE,tr-occ carb spks,rr carb flks,rr pyr foss,tr ool,rr glauc,sft-frm, blky-sbblky.
Survey @ 1713.1m: 1.06° 342.4Az
Survey @ 1727.4m: 1.06° 341.5Az
MARL:lt olv gry-lt gry,lt brn gry, arg,5-10% CALCARENITE,tr wh LMST,carb spks,tr carb flks,tr glauc,rr echino,rr ool,sft-frm, blky-sbblky.
Survey @ 1753.8m: 1.25° 345.4Az
MARL:lt olv gry-lt gry,lt brn gry, arg,occ vf aren grd i/p to CALCARENITE,tr wh LMST,tr carb spks & flks,tr glauc,tr ool, rr pyr nods,sft-frm,blky-sbblky.
LAKES ENTRANCE FORMATION
1755m MD (1755m TVD)
MARL:lt olv gry-lt gry,arg,grad to calc CLYST,vf aren i/p,rr pyr & calc COAL frag,tr carb spks, rr glauc,tr ool,rr pyr nods,v sft-sft,occ frm,blky-sbblky.
CALCAREOUS CLAYSTONE: lt olv gry-lt gry,grd to MARL, slty,mnr vf aren,tr carb spks, tr ool,rr pyr nods,rr glauc spks, v sft-sft,occ frm,blky-sbblky.
Survey @ 1782.1m: 1.31° 348.9Az


1800
1810
1820
1830
1840
1850
1860
1870
1880
1890
1900
1910
1920
1930
1940
WOB: 17-20 klbs
RPM: 225-235 (Surf+MM)
SPP: 2260-2870 psi
FLW: 880-920 gpm
MW 10.0
FV 54
PV/YP 13/26
ECD 10.1
Gel 8/12/-
WL 5.4
Sol 10
pH 8.9
Gk 1/-
Cl 43K
21-08-05
22-08-05
WOB: 17-20 klbs
RPM: 225-235 (Surf+MM)
SPP: 2850-3190 psi
FLW: 860-930 gpm
SLIDING:
1929m-1938m
CALCAREOUS CLAYSTONE: med lt gry-lt olv gry,slty,mnr vf aren,rr carb spks,rr ool,v sft-sft,occ frm,blky-sbblky.
Survey @ 1810.7m: 1.32° 347.3Az
MARL:med lt gry-lt olv gry,slty, mnr vf aren,rr carb spks,rr ool, rr pyr lam,v sft-sft,occ frm, blky-sbblky.
Survey @ 1839.5m: 1.17° 347.3Az
MARL:med lt gry-lt olv gry,slty, mnr vf aren,tr wh LMST frags, rr carb spks,rr carb spks,rr ool,rr pyr nods,v sft-sft,occ frm,blky-sbblky.
Survey @ 1868.4m: 1.33° 345.6Az
CALCAREOUS CLAYSTONE: med gry,arg,slty i/p,tr vf aren, tr calcite,tr dissem pyr,tr carb spks & lams,rr ool,sft-frm,blky-sbblky.
Survey @ 1897.6m: 1.53° 346.9Az
CALCAREOUS CLAYSTONE: med gry,arg,slty i/p,tr vf aren, tr calcite,tr dissem pyr,tr carb spks & lams,rr ool,tr foss,sft-frm,blky-sbblky.
Survey @ 1926.7m: 1.67° 346.2Az


1950
1960
1970
1980
1990
2000
2010
2020
2030
2040
2050
2060
2070
2080
2090
SLIDING:
1956-1960m
SLIDING:
1985-1990m
WOB: 17-20 klbs
RPM: 225-235 (Surf+MM)
SPP: 2850-3190 psi
FLW: 860-930 gpm
CLAYSTONE:lt med gry-med gry, arg,15-20% calc,tr vf aren,tr calcite,tr dissem pyr,rr ool,tr foss,sft-frm,sbblky-blky.
Survey @ 1955.7m: 1.49° 331.5Az
CLAYSTONE:lt med gry-med gry, arg,15-20% calc,tr vf aren,tr calcite,tr dissem pyr,rr ool,tr foss,sft-frm,sbblky-blky.
Survey @ 1984.1m: 1.39° 329.8Az
CLAYSTONE:dk med gry-olv gry, arg,14% calc,tr calcite,rr ool, tr dissem pyr,tr glauc,tr lams, sft-frm,sbblky-blky.
Survey @ 2012.5m: 1.45° 328.2Az
CLAYSTONE:dk med gry-olv gry, arg,17% calc,tr calcite,rr ool, tr dissem pyr,tr foss,tr lams, sft-frm,sbblky-blky.
Survey @ 2040.9m: 1.49° 334.3Az
CLAYSTONE:lt med gry-lt olv gry,arg,20% calc,tr calcite,rr glauc,dissem pyr,tr vf qtz grns, tr lams,v sft-sft,sbblky-blky.
Survey @ 2069.4m: 1.39° 333.9Az
LATROBE FORMATION
2088.5m MD (2088.5m TVD)



SANDSTONE:clr,dom trnsl,dom f-med,mnr crs-v crs,mod srt, sbang-sbrnd,tr Fe stn,com glauc, cln & lse,fr por,no fluor.

SILTSTONE:lt brn,pl rd prpl,lt gry, aren,kaol i/p,Fe stn i/p,com glauc & qtz grs,frm-mod hd i/p,blky.

SANDSTONE:clr,dom trnsl,fstd, dom vf-f,mnr med-v crs,mod srt, sbang-sbrnd,slty mtx,tr wk calc cmt,com glauc,dom lse,ti por,no fluor.

CLAYSTONE:lt olv gry-olv gry, slty,rr vf aren,rr med qtz grs, tr glauc incls,calc i/p,rr carb spks,rr dissem pyr,v sft-disp, sbbkly-amorph.

SILTSTONE:lt olv gry,mott grn gry/mod grn,arg,com aren grd to slty SST,com glauc,occ calc, nods,tr pyr,v sft-disp,sbblky -amorph.

BASE TF CHANNEL
2161.5m MD (2161.5m TVD)

SANDSTONE:clr,trnsl,frstd,off wh,f-med,rr crs,mod wl srt, sbrnd-pred sbang,wk sil cmt,occ c wk calc com wh kaol mtx,tr glauc incls,lse-fri,v pr vis por,pr inf por,no fluor.

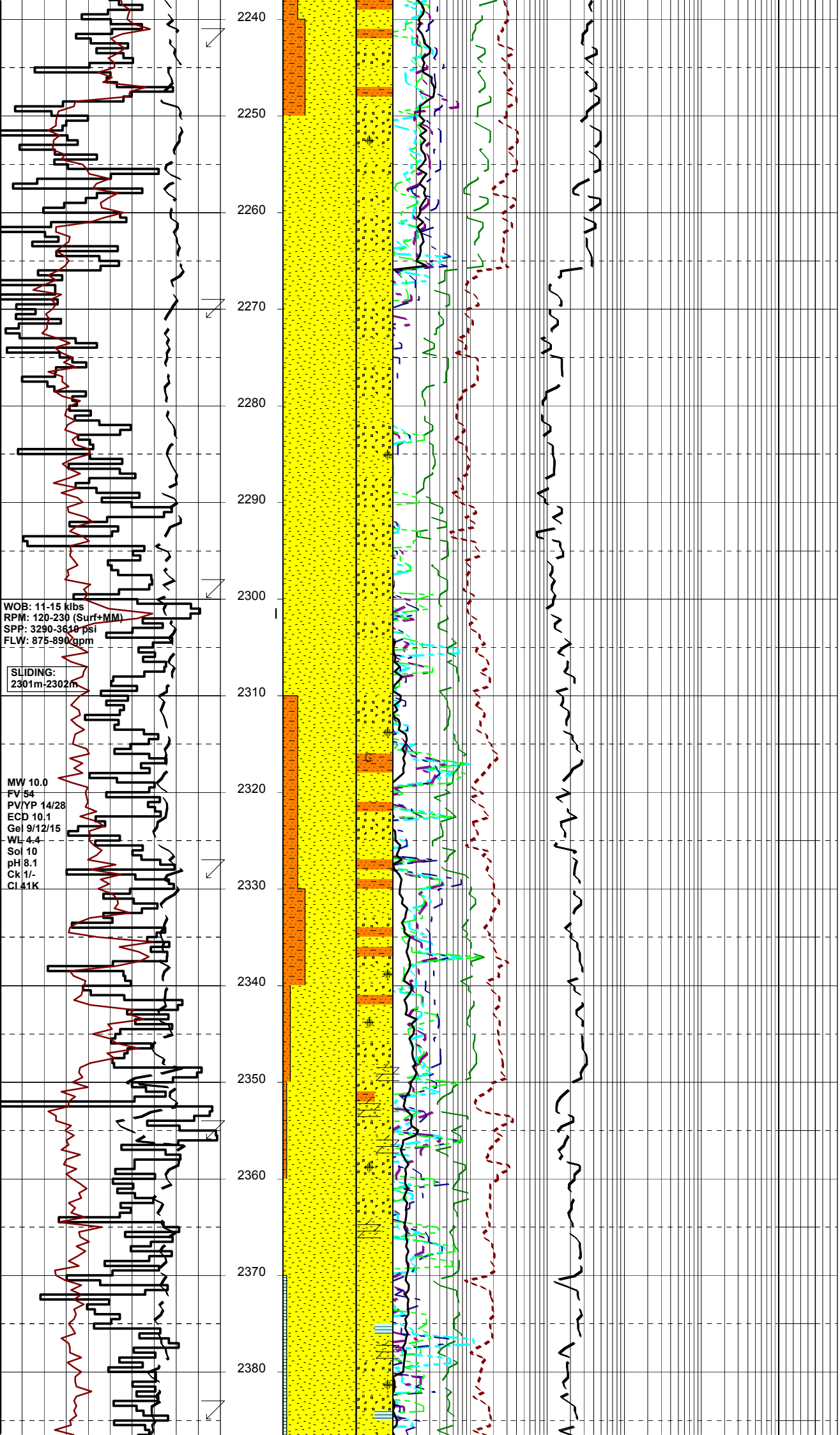
Survey @ 2184.6m: 1.56° 330.8Az

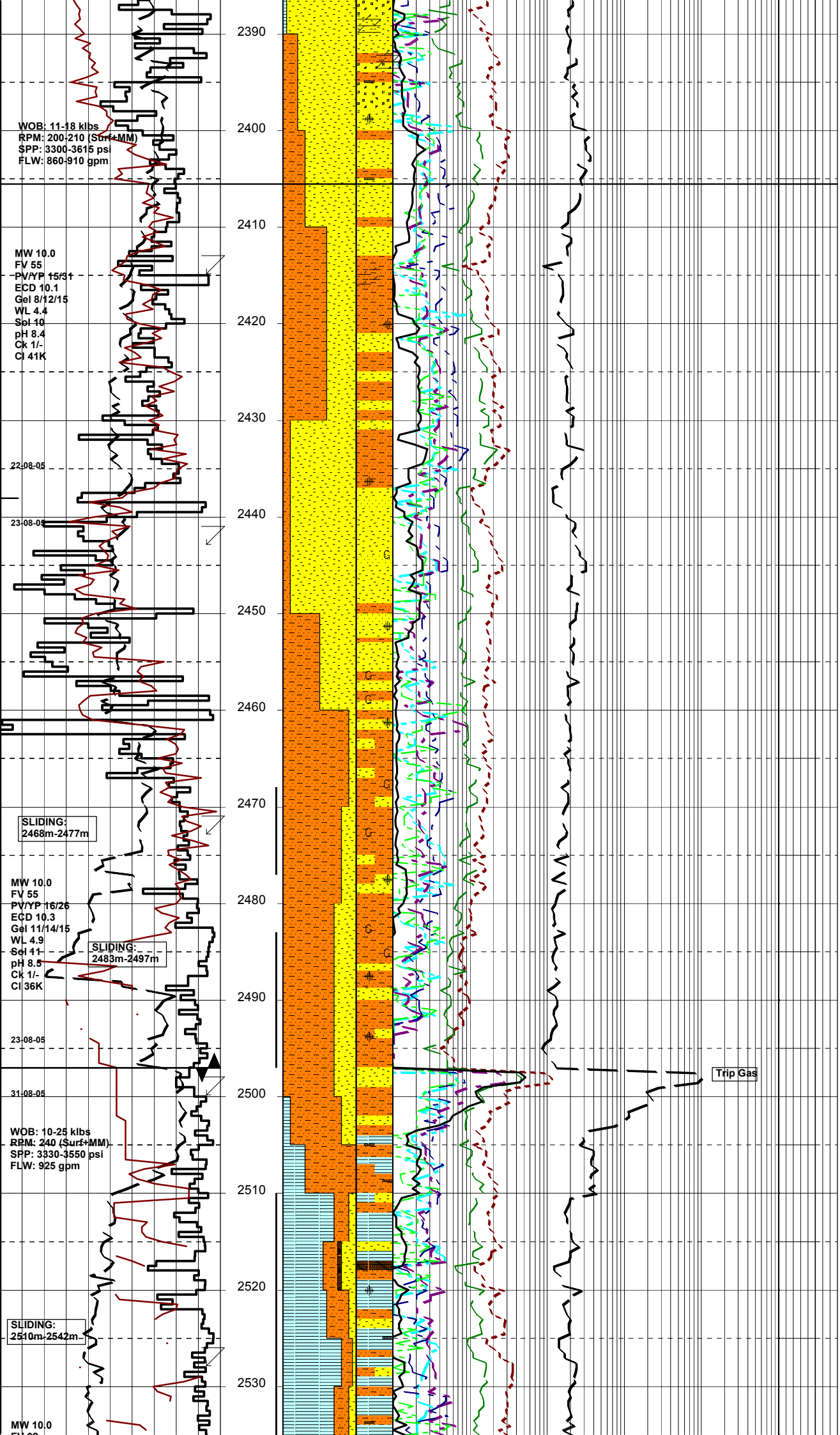
SANDSTONE:clr,trnsl,frstd, mott mod grn/wh,f-med,occ crs, mod pr srt,sbang-sbrnd,mnr crs rnd,wk sil cmt,tr wk calc cmt, occ wh kaol mtx,tr glauc & pyr mtx,lse-fri,v pr vis por,fr inf por, no fluor.

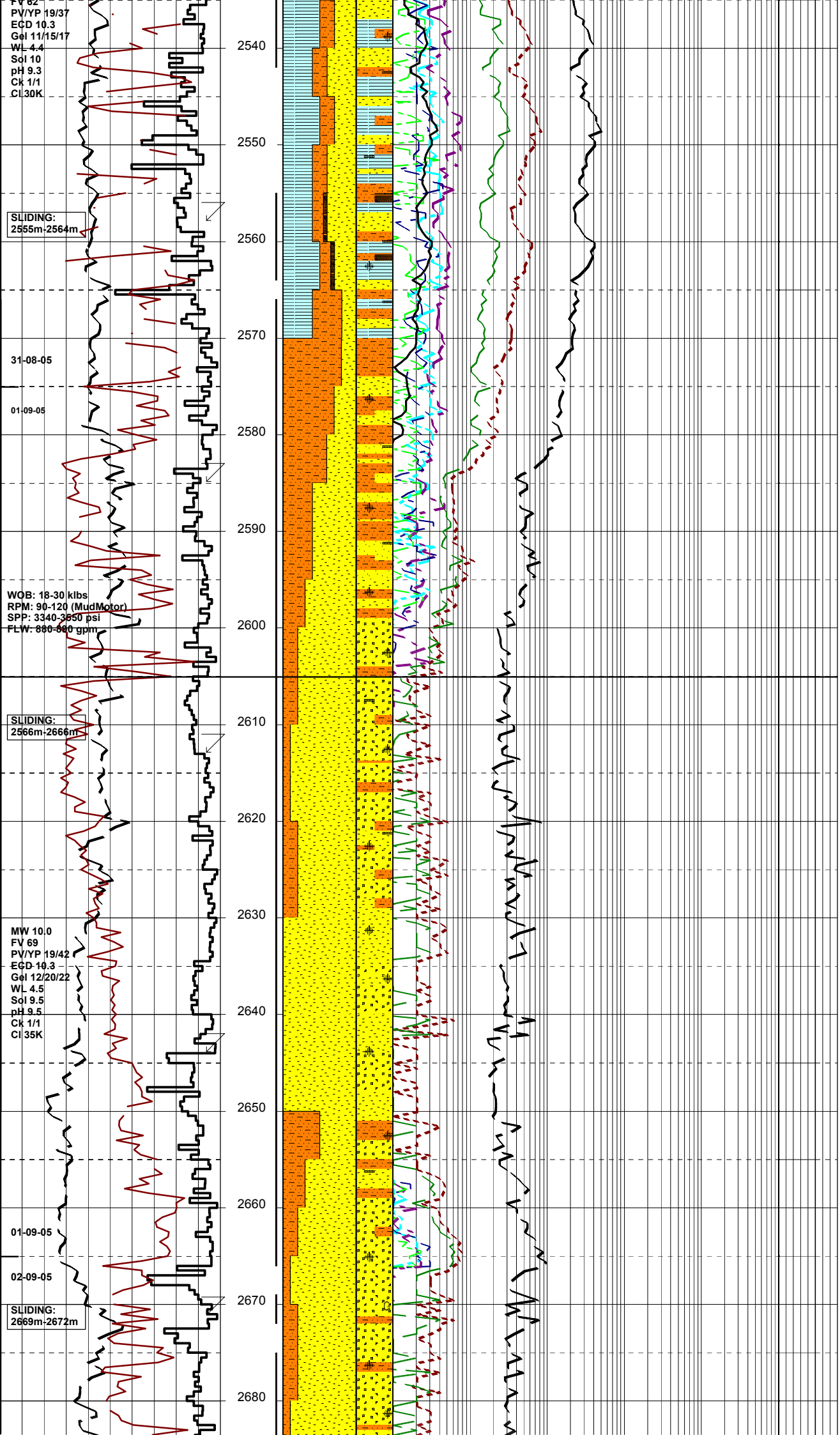
SILTSTONE:med lt olv gry-lt olv gry,occ mott wh/gry,pred aren & grd to slty SST,com arg,tr calc, tr-occ carb spks,tr-occ dissem & nod pyr,rr glauc incls,v sft-disp,sbblky-amorph.

Survey @ 2213.6m: 1.69° 337.5Az

SANDSTONE:clr,trnsl,frstd,lt gry,mott mod grn/gry,f-crs,com v crs,pr srt,sbang-sbrnd,com polshd,wk sil cmt,tr wk calc cmt, occ wh kaol & gry slty mtx,tr glauc & pyr incls,lse-fri,v pr vis por,fr inf por,no fluor.


2240
2250
2260
2270
2280
2290
2300
2310
2320
2330
2340
2350
2360
2370
2380
WOB: 11-15 klbs
RPM: 120-230 (Surf+MM)
SPP: 3290-3610 psi
FLW: 875-890 gpm
SLIDING:
2301m-2302m
MW 10.0
FV 54
PV/YP 14/28
ECD 10.1
Gel 9/12/15
WL 4.4
Sol 10
pH 8.1
Ck 1/-
Cl 41K
Survey @ 2242.4m: 1.79° 336.9Az
SILTSTONE:med lt olv gry-lt olv gry,occ mott wh/gry,pred aren & grd to slty SST,com arg,tr calc, tr carb spks,tr-occ dissem & nod pyr,rr glauc incls,disp, amorph.
SANDSTONE:clr,trnsl,frstd,lt gry,f-v crs,v pr srt,sbang-pred sbrnd,com polshd,wk sil cmt,tr wk calc cmt,tr wh kaol & gry slty mtx,occ pyr mtx,tr cht grs,lse,fr-gd inf por,no fluor.
Survey @ 2271.1m: 1.80° 337.7Az
SANDSTONE:clr,trnsl,frstd,occ med gry,f-v crs,v pr srt,sbang-pred sbrnd,com polshd,wk sil cmt,tr wk calc cmt,occ pyr mtx, tr cht grs,lse,fr-gd inf por,no fluor.
Survey @ 2299.8m: 1.92° 339.7Az
SILTSTONE:lt olv gry-lt gry,off wh,arg,vf aren i/p,tr carb spks,tr glauc incls,tr pyr nods,v sft-sft, occ frm,amorph,sbblky-blky.
Survey @ 2328.3m: 1.98° 339.8Az
SANDSTONE:clr,trnsl,frstd,occ med gry,f-v crs,v pr srt,sbang-pred sbrnd,com polshd,wk sil cmt,wk dol cmt,occ pyr mtx, tr cht grs,rr glauc nods,lse-occ fri,mnr mod hd,fr-gd inf por,fr vis por,dim orng min fluor.
Survey @ 2356.4m: 1.99° 341.4Az
SANDSTONE:clr,trnsl,frstd, f-v crs,v pr srt,sbang-pred sbrnd, com polshd,wk sil cmt,occ wk-mod dol cmt,occ pyr mtx,lse,occ fri,mnr mod hd,fr-gd inf por,pr-fr vis por,dim orng min fluor.
CLAYSTONE:lt gry-lt olv gry, com slty,aren i/p,calc i/p,tr pyr nods,rr carb spks & glauc incls, v sft-frm,sbblky-blky.
Survey @ 2384.8m: 2.01° 340.8Az


2390
2400
2410
2420
2430
2440
2450
2460
2470
2480
2490
2500
2510
2520
2530
WOB: 11-18 klbs
RPM: 200-210 (Surf+MM)
SPP: 3300-3615 psi
FLW: 860-910 gpm
MW 10.0
FV 55
PV/YP 15/31
ECD 10.1
Gel 8/12/15
WL 4.4
Sol 10
pH 8.4
Ck 1/-
Cl 41K
22-08-05
23-08-05
SLIDING:
2468m-2477m
MW 10.0
FV 55
PV/YP 16/26
ECD 10.3
Gel 11/14/15
WL 4.9
Sol 11
pH 8.5
Ck 1/-
Cl 36K
SLIDING:
2483m-2497m
23-08-05
31-08-05
WOB: 10-25 klbs
RPM: 240 (Surf+MM)
SPP: 3330-3550 psi
FLW: 925 gpm
SLIDING:
2510m-2542m
MW 10.0
Trip Gas
SILTSTONE:lt gry-lt olv gry, arg,com aren,occ carb i/p grd to slty COAL frags,occ calc,tr pyr nods,rr glauc nods,v sft-disp, occ frm,amorph-sbblky.
SANDSTONE:clr,trnsl,frstd, f-med,com crs,mnr v crs,mod pr srt,sbang-sbrnd,occ rnd,wk sil cmt,occ mod calc cmt,tr dol cmt, tr wh kaol mtx,tr pyr nods,lse-fri, mnr mod hd,fr-gd inf por,pr vis por,tr dim orng min fluor.
KATE SHALE
2405.5m MD (2405.5m TVD)
Survey @ 2413.6m: 2.13° 341.0Az
SILTSTONE:brn gry-olv gry, aren,com vf qtz grs,grd to f arg SST i/p,tr carb spks,rr glauc,rr pyr,sft-frm,sbblky.
SANDSTONE:clr,trnsl,frstd, f-med,mnr crs-v crs,pr srt, sbang-sbrnd,occ rnd,wk sil cmt, occ mod calc cmt,tr dol cmt,mnr med gry slty mtx,tr pyr nods, lse-rr fri,mnr mod hd,fr-gd inf por, pr vis por,tr dim orng min fluor.
Survey @ 2442.7m: 2.02° 337.1Az
SILTSTONE:brn gry-olv gry,aren, com vf qtz grs,grd to f arg SST i/p,arg i/p,tr carb spks,com glauc,mnr pyr,sft-frm,sbblky.
SILTSTONE:brn gry-olv gry,aren, com vf qtz grs,grd to arg SST i/p,arg i/p,tr carb spks,com glauc,mnr pyr,sft-frm,sbblky.
Survey @ 2472.2m: 2.07° 337.3Az
SANDSTONE:lt gry,trnsl,frstd, f,pred med-crs,mod srt,ang-sbang, com frac grs,tr pyr aggs, occ wk sil cmt,gd inf por,pr vis por,no fluor.
BIT #4 Smith MR6231
SIZE:12.25" JETS:4x20
IN: 2497m OUT: 2741m
RUN: 244m HRS: 36.2
COND:
Survey @ 2499.1m: 2.11° 341.0Az
SILTSTONE:olv gry-med gry,aren, tr carb spk,v sft-sft,tr frm-mod hd,tr dissem pyr,tr pyr COAL frags,tr glauc i/p,amorph-sbblky.
CLAYSTONE:olv gry-med gry, brn gry,slty grd to arg SLTST, occ carb spks & frags,tr calc,v sft-sft,amorph-sbblky.
SANDSTONE:wh-off wh,clr,trnsl, mnr lt gry, vf-f occ med-crs,v pr srt,sbang-sbrnd,occ crs rnd, wk sil cmt,com wh arg mtx,tr gry slty mtx,tr carb spks & frags,lse, mnr fri,fr inf por,v pr vis por, no fluor.
Survey @ 2527.7m: 2.07° 320.7Az
CLAYSTONE:lt gry-olv gry,occ



slty,tr aren,tr dissem pyr,tr COAL frags,disp-frm,dom amorph,occ sbblky,no fluor.

SANDSTONE:wh-off wh,clr,trnsl, f-med,occ crs-v crs,mod pr srt, sbang-rnd,wk sil cmt,loc com wh arg mtx,tr carb spks & frags,lse-fri,fr inf por,pr-fr vis por,no fluor.

CLAYSTONE:lt gry-olv gry,occ slty,tr dissem pyr,occ COAL frags & spks,disp-v sft,amorph.

Survey @ 2557.3m: 2.07° 264.9Az

COAL:blk-brn blk,dll-ea,slty,brit -frm,sbfiss-sbblky,unevn-ang i/p.

SILTSTONE:dk brn-olv blk,arg, tr aren,carb i/p,tr dissem pyr, tr-mnr carb lams & frags,sft-frm,fri,blky-sbfiss.

SANDSTONE:clr,trnsl,fstd,wh,v lt gry,vf-f,com v crs grs,sbang-sbrnd,mod srt,tr wk dol cmt,off wh kaol mtx,mnr carb lams,mnr pyr,ti vis por,fr inf por,tr dol fluor.

Survey @ 2585.2m: 1.48° 194.3Az

SILTSTONE:brn gry-brn blk, arg,tr aren,carb i/p,com carb lams,mnr pyr,sft-frm,sbblky-sbfiss i/p.

SANDSTONE:clr-trnsl,fstd,v lt gry,vf-f,pred med-v crs grns, sbang-sbrnd,tr mod strg dol cmt, lt gry slty & com wh kaol mtx, com carb lams,tr pyr,tr chlor,ti vis por,fr inf por,tr dol fluor.

K2 SANDSTONE
2605m MD (2404.5m TVD)

SANDSTONE:clr,frstd i/p,wh i/p, crs-v crs,mnr med,tr f,ang-sbrnd, tr strg dol cmt,mnr wh kaol mtx, tr pyr,gen lse,mnr fri aggs,ti vis por,gd inf por,tr dol fluor.

Survey @ 2612.5m: 3.62° 191.4Az

SILTSTONE:lt gry-brn gry,com aren,tr arg,tr calc,carb i/p,com carb lams,occ nod pyr,disp-sft, sbblky-amorph.

SANDSTONE:clr-opq,mnr lt gry, med-v crs,mod pr srt,ang-sbrnd, wk dol cmt i/p,tr pyr cmt,mnr lt gry slty mtx,occ pyr nod,lse,mnr fri,pr inf por,v pr vis por,occ dol fluor.

Survey @ 2643.41m: 6.45° 190.1Az

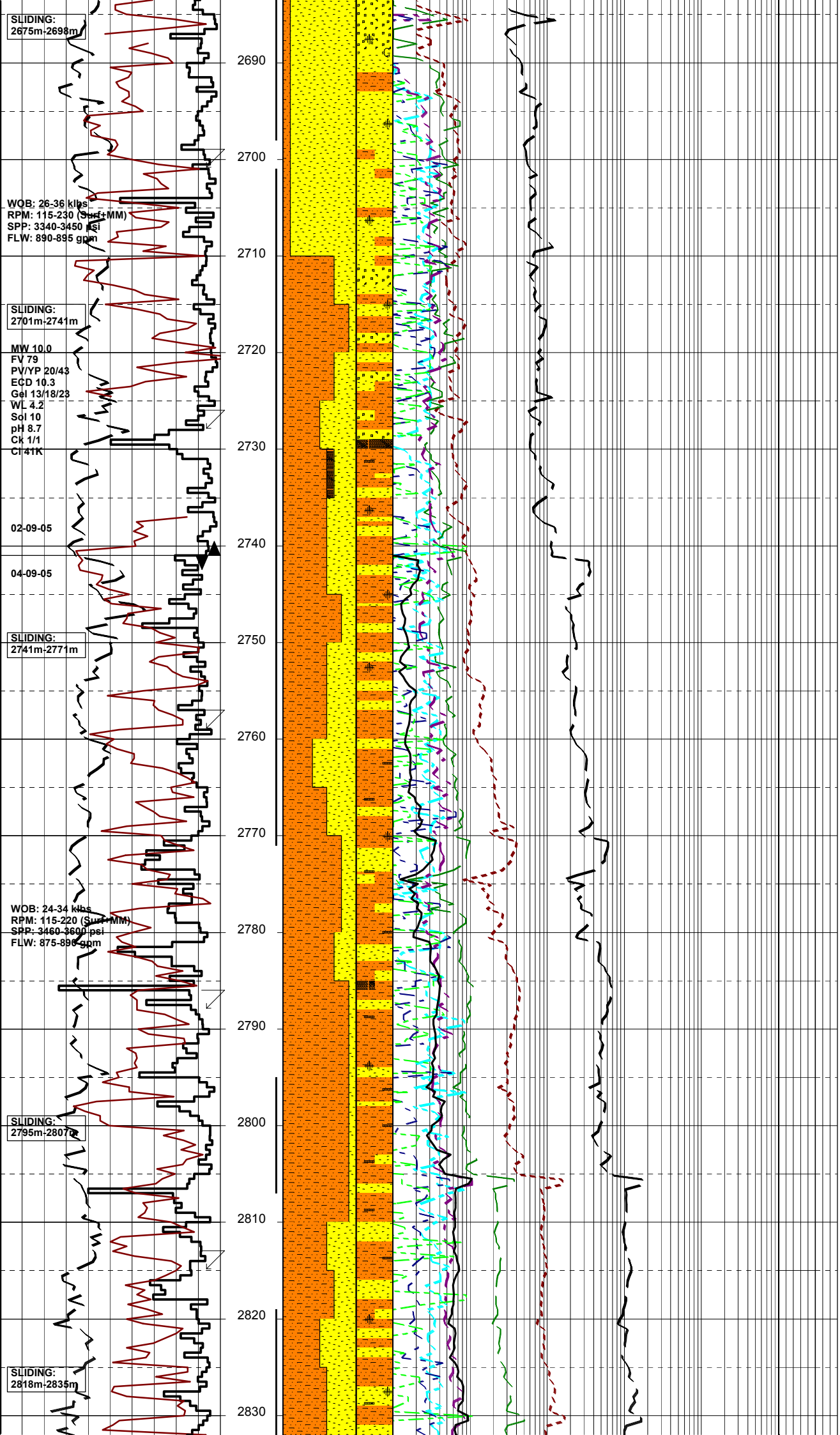
SANDSTONE:clr,trnsl,occ lt gry, vf-crs,occ v crs,pr srt,ang-sbrnd, wk dol cmt i/p,mnr lt gry slty mtx, occ pyr nod,tr qtz ovgths,lse,mnr fri,v pr inf & vis por,occ dol fluor.

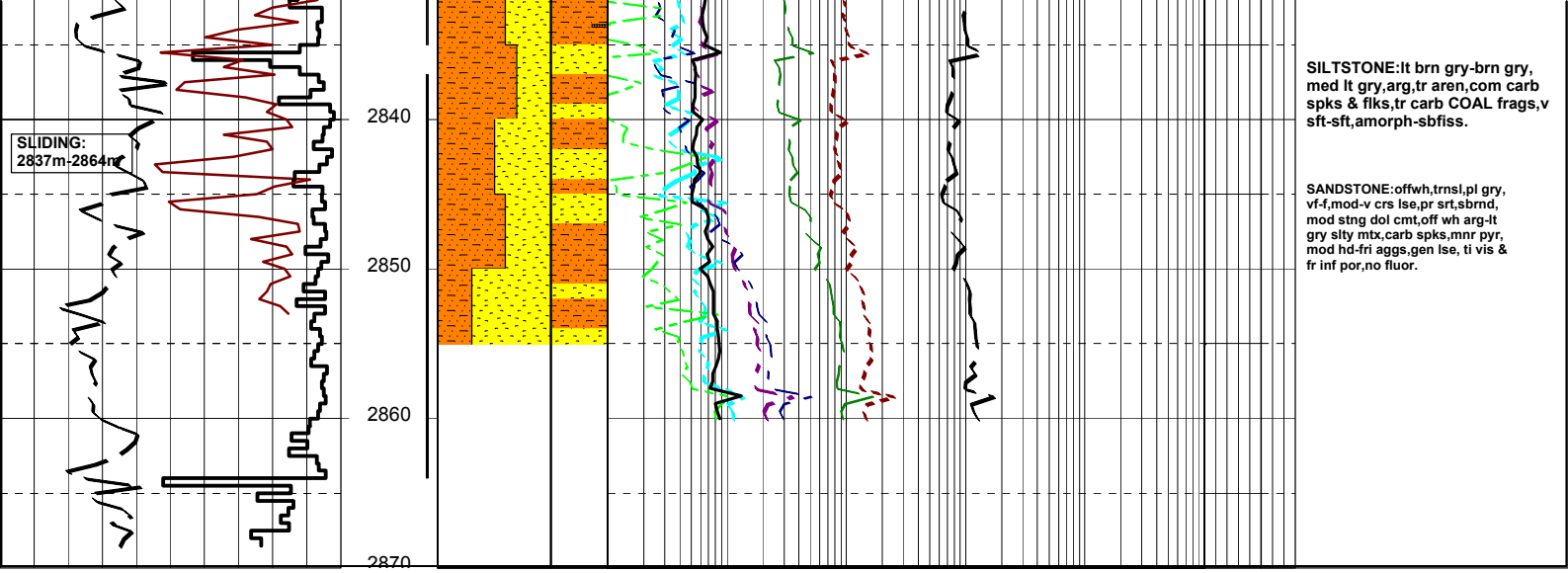
SILTSTONE:lt-med gry,com vf aren,occ carb spks & lams,occ dissem pyr,v sft-sft,amorph-occ sbblky.

SANDSTONE:clt,trnsl,frstd,occ lt gry,crs-v crs,tr vf-f aggs, pr srt,ang-sbrnd,mod strg dol cmt,tr gry slty mtx,tr-mnr nod & dissem pyr,tr glauc,gen lse, tr fri aggs,ti vis & gd inf por, dol fluor.

Survey @ 2671.36m: 7.27° 185.3Az

SILTSTONE:brn blk,dk gry,arg, carb i/p,com nod & dissem pyr, com carb lams & flks,sft-frm, sbfiss-amorph.


SLIDING:
2675m-2698m
2690
2700
WOB: 26-36 klbs
RPM: 115-230 (Surf+MM)
SPP: 3340-3450 psi
FLW: 890-895 gpm
2710
SLIDING:
2701m-2741m
MW 10.0
FV 79
PV/YP 20/43
ECD 10.3
Gel 13/18/23
WL 4.2
Sol 10
pH 8.7
Ck 1/1
Cl 41K
2720
2730
02-09-05
2740
04-09-05
SLIDING:
2741m-2771m
2750
2760
2770
WOB: 24-34 klbs
RPM: 115-220 (Surf+MM)
SPP: 3460-3600 psi
FLW: 875-890 gpm
2780
2790
SLIDING:
2795m-2807m
2800
2810
2820
SLIDING:
2818m-2835m
2830
SANDSTONE:clr,trnsl,frstd,occ lt gry,crs-v crs,tr vf-f aggs,pr srt,ang-sbrnd,mnr sil cmt,tr gry slty-off wh kaol mtx,tr-mnr nod & dissem pyr,tr glauc,gen lse, tr fri aggs,ti vis & gd inf por, tr dol fluor.
SANDSTONE:clr,trnsl,opq,frstd, off wh,lt gry,f-v crs,v pr srt, rnd-sbang,com frac grs,wk sil cmt,tr wk dol cmt,loc occ wh arg mtx,tr gry slty mtx,tr pyr mtx,mnr fri,fr-gd inf por,pr vis por,tr dol fluor.
Survey @ 2700.5m: 9.30° 184.7Az
SILTSTONE:lt gry-lt olv gry,tr vf aren i/p,carb lam i/p,tr carb,tr pyr nod,v sft-sft,amorph-sbfiss.
SANDSTONE:clr-opq,mnr lt gry, f-crs,com v crs,v pr srt,ang-sbrnd,wk sil cmt,tr loc slty mtx, lse,trfri,pr inf por,v pr vis por, no fluor.
COAL:blk,dll-ea,sbvit i/p,pred brit,frm i/p,sbblky-blky,unevn -ang.
Survey @ 2728.1m: 10.88° 181.9Az
SANDSTONE:clr-opq,tr wh,dom crs,com f-med,v pr srt,ang-sbrnd, wk sil cmt,tr wh arg mtx,tr pyr nod,lse,tr fri,pr inf por,v pr vis por,no fluor.
Rmf @ 2741m: 0.11 ohm @ 75°F
BIT #5 HUGHES MXCOPH
SIZE:12.25" JETS:3x20,1x18
IN: 2741m OUT: m
RUN: m HRS:
COND:
SILTSTONE:lt-med gry,olv gry,lt brn gry,mnr gry blk,vf aren,com arg,mnr carb,tr calc,occ-loc com carb spks,tr-occ pyr nods,v sft-frm,amorph-sbblky,mnr sbfiss.
Survey @ 2757.9m: 13.90° 178.3Az
SANDSTONE:dom clr,com opq, tr lt gry,f-crs,occ v crs, pr srt, ang-sbrnd,wk sil cmt,tr gry slty mtx,lse,tr fri,pr inf por,no fluor.
SILTSTONE:ltgry-med gry,olv gry pred arg,aren i/p,tr carb grad to COAL frags,tr carb spks,tr pyr nods,v sft-sft,tr mod hd,amorph-sbfiss.
Survey @ 2786.4m: 15.37° 180.97A
COAL(TR):blk-gry blk,dll-ea,tr sbvit,slty grad to carb frags,sft-brit,sbblky-sbfiss,unevn-ang.
SANDSTONE:clr,trnsl,opq,tr lt gry,tr off wh,f-med,com crs-v crs, mod pr srt,ang-sbrnd,wk sil cmt, tr wh arg mtx,tr gry slty mtx,rr pyr mtx,tr carb incls,v pr vis por,pr inf por,no fluor.
SILTSTONE:lt gry-med gry,brn gry,tr olv gry,pred arg,tr aren, tr COAL frags,tr carb spks, tr pyr nod,v sft-sft,tr mod hd, amorph-sbfiss.
Survey @ 2814.8m: 16.98° 182.0Az
SILTSTONE:lt brn gry-brn gry,lt-med gry,arg,mnr vf aren,tr-loc com carb spks & flks,occ carb grd to COAL frags,tr pyr nods,v sft-sft,amorph-sbfiss.
SANDSTONE:clr,trnsl,opq,tr lt gry,tr off wh,f-crs,occ v crs,mod pr srt,ang-sbrnd,wk sil cmt,tr wh arg mtx,tr gry slty mtx,rr pyr mtx, occ carb incls,v pr vis por,pr inf por,no fluor.



SILTSTONE:lt brn gry-brn gry, med lt gry,arg,tr aren,com carb spks & flks,tr carb COAL frags,v sft-sft,amorph-sbfiss.

SANDSTONE:offwh,trnsl,pl gry, vf-f,mod-v crs lse,pr srt,sbrnd, mod stng dol cmt,off wh arg-lt gry slty mtx,carb spks,mnr pyr, mod hd-fri aggs,gen lse, ti vis & fr inf por,no fluor.