



INTEQ

Company : Nexus Energy

Well : Garfish-1

Interval : 77.00 - 2471.81 meters

Created : 10/Jun/2008 4:46:07 AM



FORMATION EVALUATION LOG

Chromatograph Data

Methane ppm

10 | 100 | 1000 | 10000

Ethane ppm

10 | 100 | 1000 | 10000

Propane ppm

10 | 100 | 1000 | 10000

iso-Butane ppm

10 | 100 | 1000 | 10000

n-Butane ppm

10 | 100 | 1000 | 10000

iso-Pentane ppm

10 | 100 | 1000 | 10000

n-Pentane ppm

10 | 100 | 1000 | 10000

Ditch Gas %

0.1 | 1 | 10 | 100

Analysis

Calcimetry

Dolomite %

DIRECT FLUOR

LITHOLOGY DESCRIPTIONS

Cuttings

LITHOLOGY INTERPRETED

MD meters 1:500

Gamma Ray

40 | 80 | 120 | 160 | 200

ROP

200 | 160 | 120 | 80 | 40

m/hr

WEIGHT ON BIT

50 | 0

klbf

ROP BACKUP

300 | 280 | 260 | 240 | 220

m/hr

RT-MSL: 39.9 mMDRT
Water Depth: 56.3 mMDRT
RT-Seabed: 96.2 mMDRT

Spud Garfish-1 @ 1330 hrs on 28/05/2008

MD:86.66 m Azi: 347.82°
TVD: 86.66 m Incl: 0.22°

MD:122.43 m Azi: 197.82°
TVD: 122.43 m Incl: 0.11°

36" section TD, 131.0 m

Drill with seawater & Hi-Vis sweeps,
Returns to seabed, 96.25m to 755.0m

NB1: 558mm (22")
914mm (36") H/Opener
Make: REED
Type: Rock / YC11
Jets: 3x22, 1x16
Depth In: 96.25 m
Depth Out: 132.0 m
Drilled 35.75 m in 0.5hr
Grade: 1-1-WT-A-2-I-RR-TD

Set 762mm (30") Casing at 127.8 m

28 - 29/05/2008

NB2: 558mm (22")
Clean-out BHA
Make: Smith
Type: Rock / MZ3173
Jets: 3x22, 1x16
Depth In: 132.0 m
Depth Out: 132.0 m
Cement top: 125.0m
Grade:
O-O-NO-A-O-I-NO-BHA

NB3: 445mm (17-1/2")
Make: Smith
Type: Rock / MZ1061
Jets: 3x22, 1x18
Depth In: 132.0 m
Depth Out: 755.0 m
Drilled 623.0 m in 12.0hr
Grade: 2-2-WT-A-3-I-NO-TD

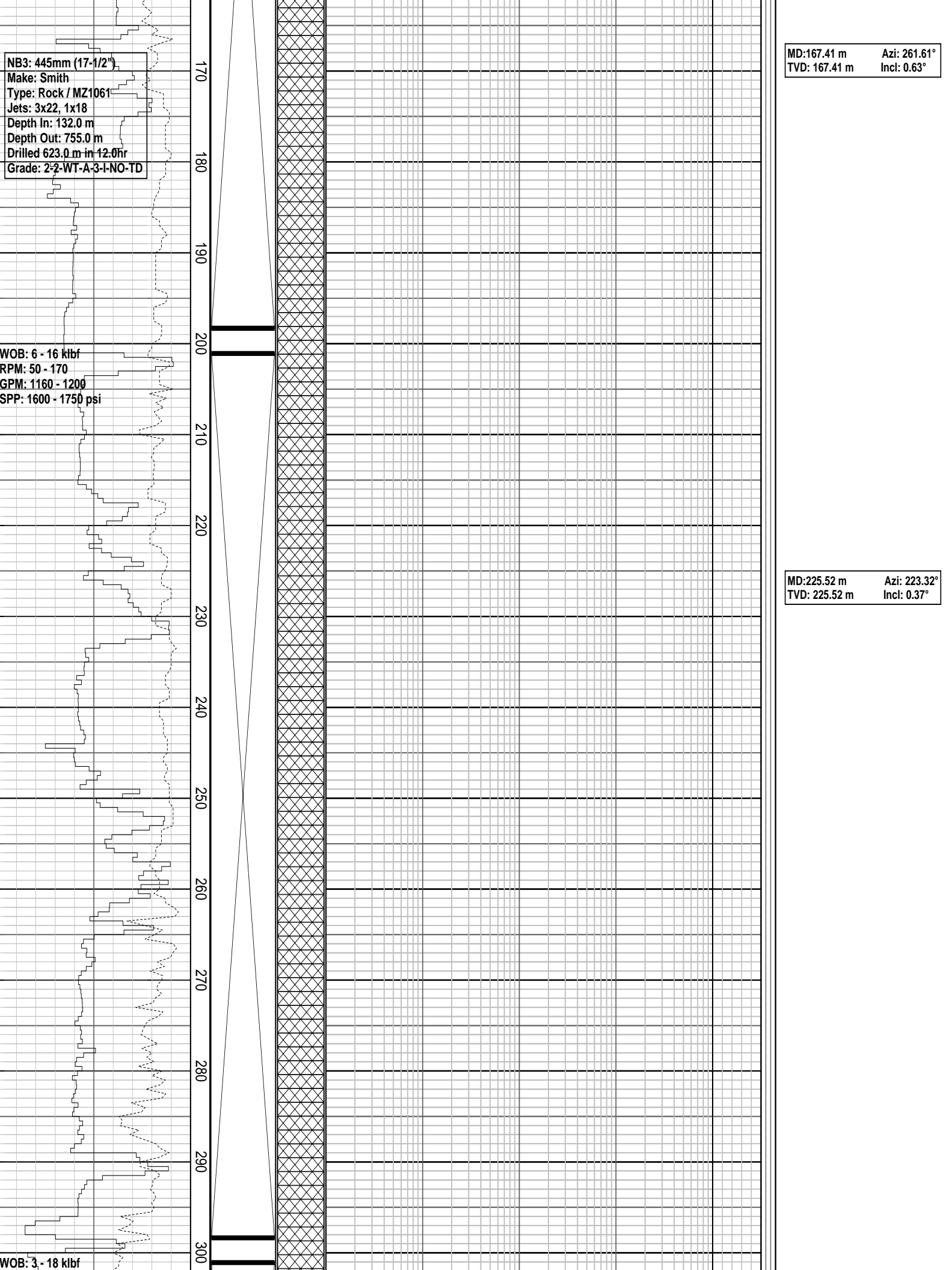
WOB: 6 - 16 klbf
RPM: 50 - 170
GPM: 1160 - 1200
SPP: 1600 - 1750 psi

WOB: 3 - 18 klbf

170
180
190
200
210
220
230
240
250
260
270
280
290
300

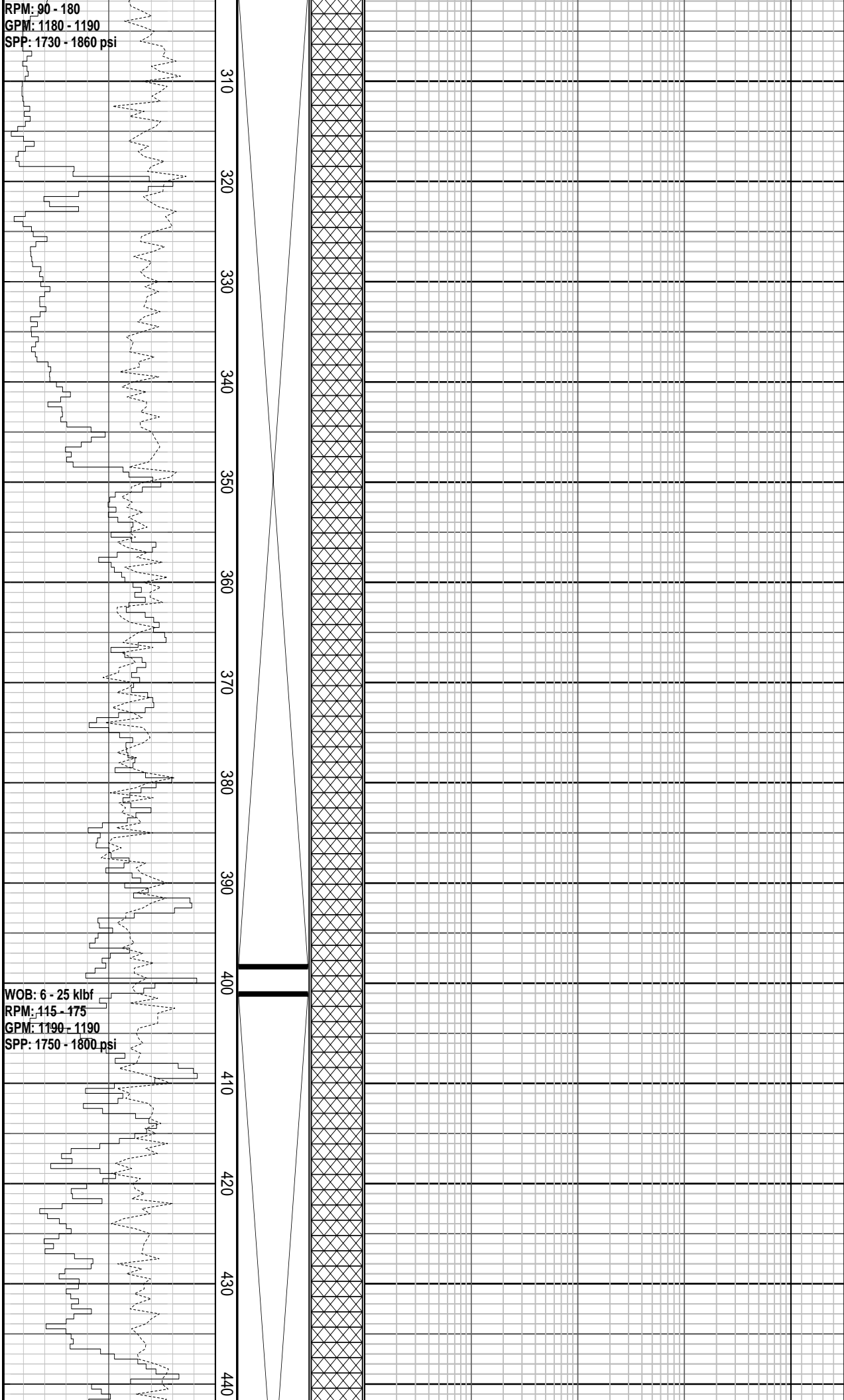
MD: 167.41 m Azi: 261.61°
TVD: 167.41 m Incl: 0.63°

MD: 225.52 m Azi: 223.32°
TVD: 225.52 m Incl: 0.37°



RPM: 90 - 180
GPM: 1180 - 1190
SPP: 1730 - 1860 psi

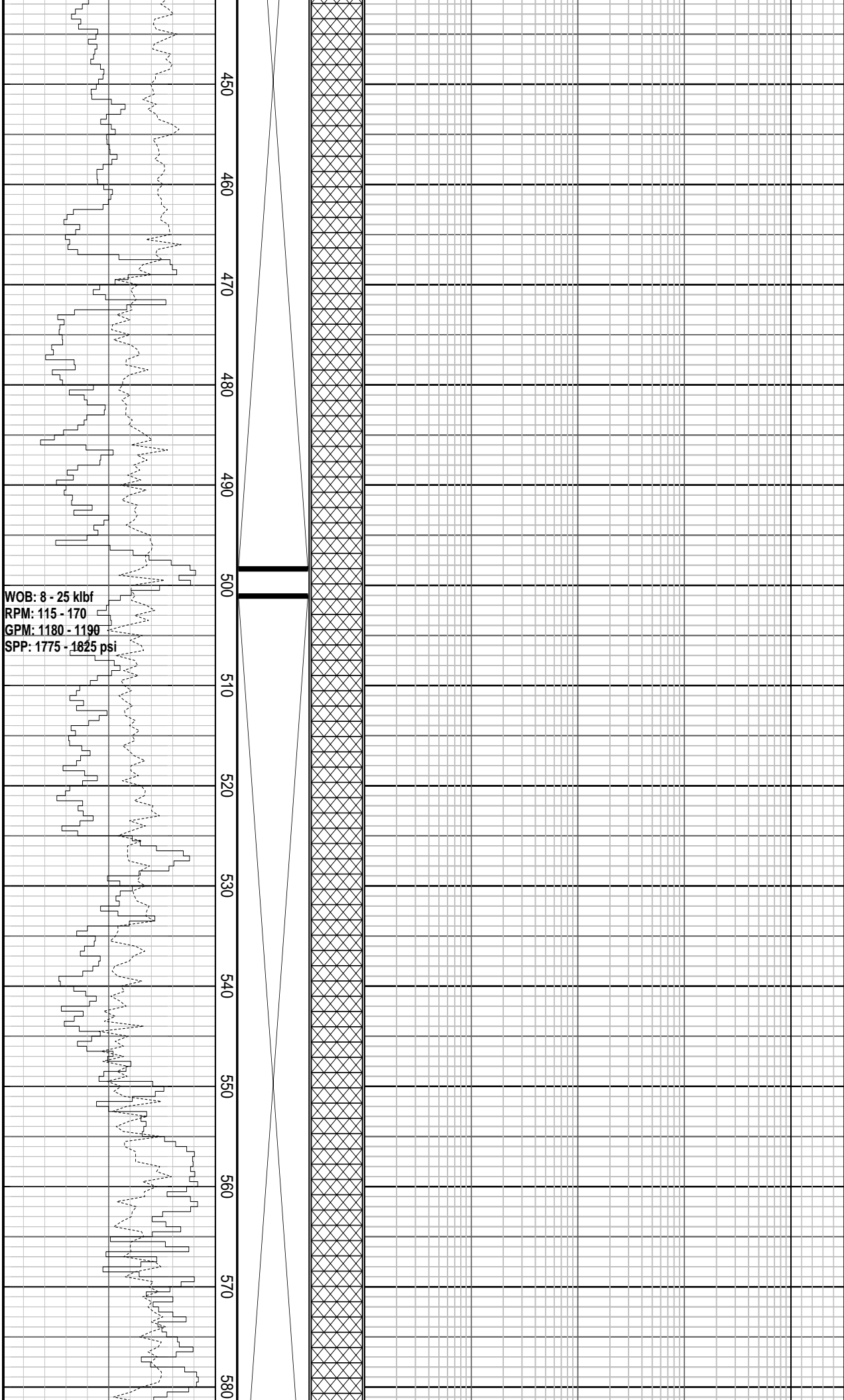
WOB: 6 - 25 klf
RPM: 115 - 175
GPM: 1190 - 1190
SPP: 1750 - 1800 psi



MD: 343.05 m Azi: 75.45°
TVD: 343.05 m Incl: 0.23°

Drill with seawater & Hi-Vis sweeps,
Returns to seabed, 96.25m to 755.0m

MD: 431.83 m Azi: 31.60°
TVD: 431.83 m Incl: 0.14°



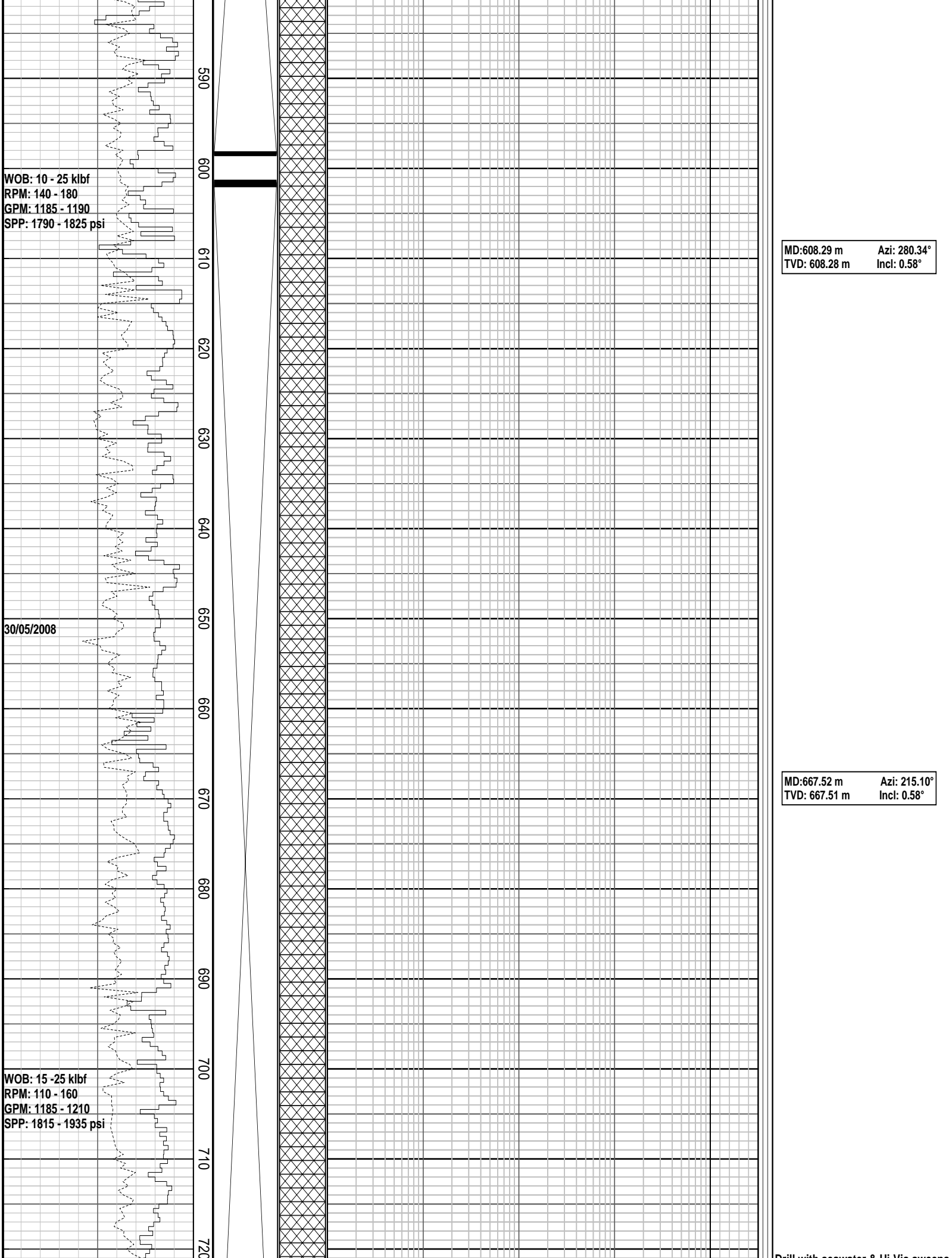
WOB: 10 - 25 klbf
RPM: 140 - 180
GPM: 1185 - 1190
SPP: 1790 - 1825 psi

30/05/2008

WOB: 15 - 25 klbf
RPM: 110 - 160
GPM: 1185 - 1210
SPP: 1815 - 1935 psi

MD: 608.29 m Azi: 280.34°
TVD: 608.28 m Incl: 0.58°

MD: 667.52 m Azi: 215.10°
TVD: 667.51 m Incl: 0.58°



NB4: 311mm (12-1/4")
Clean-out BHA
Make: Smith
Type: Rock / SVHC
Jets: 3x18, 1x18
Depth In: 755.0 m
Depth Out: 758.0 m
Cement top: 740.0M
Grade:1-1-RR-A-E-I-RR-TD

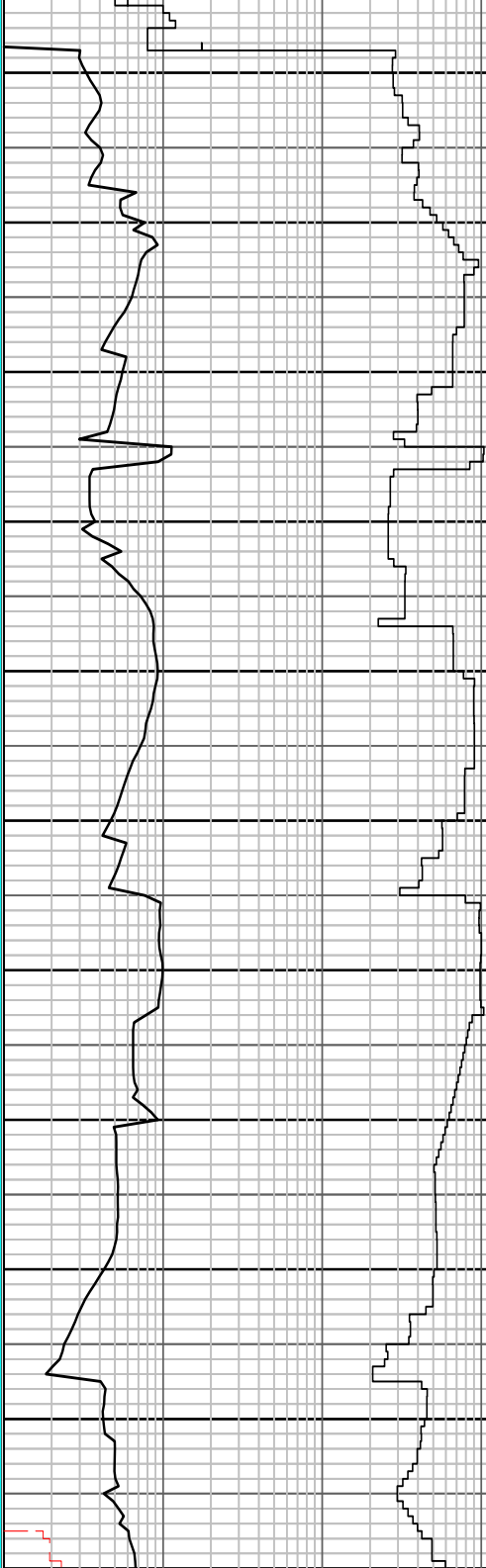
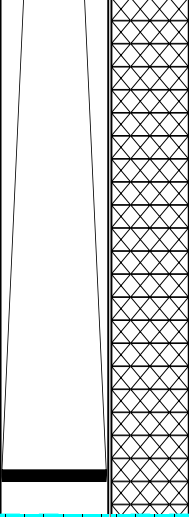
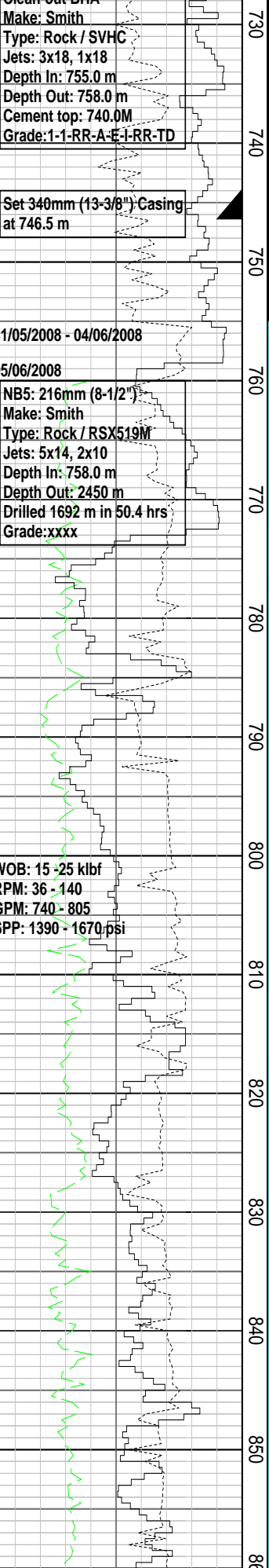
Set 340mm (13-3/8") Casing
at 746.5 m

31/05/2008 - 04/06/2008

05/06/2008

NB5: 216mm (8-1/2")
Make: Smith
Type: Rock / RSX519M
Jets: 5x14, 2x10
Depth In: 758.0 m
Depth Out: 2450 m
Drilled 1692 m in 50.4 hrs
Grade:xxxx

WOB: 15 -25 klf
RPM: 36 - 140
GPM: 740 - 805
SPP: 1390 - 1670 psi



MD:768.33 m Azi: 278.20°
TVD: 768.3 m Incl: 0.31°

17-1/2" Section TD, 755.0m

Drill with KCL Polymer drilling
fluid, 755.0m to well TD

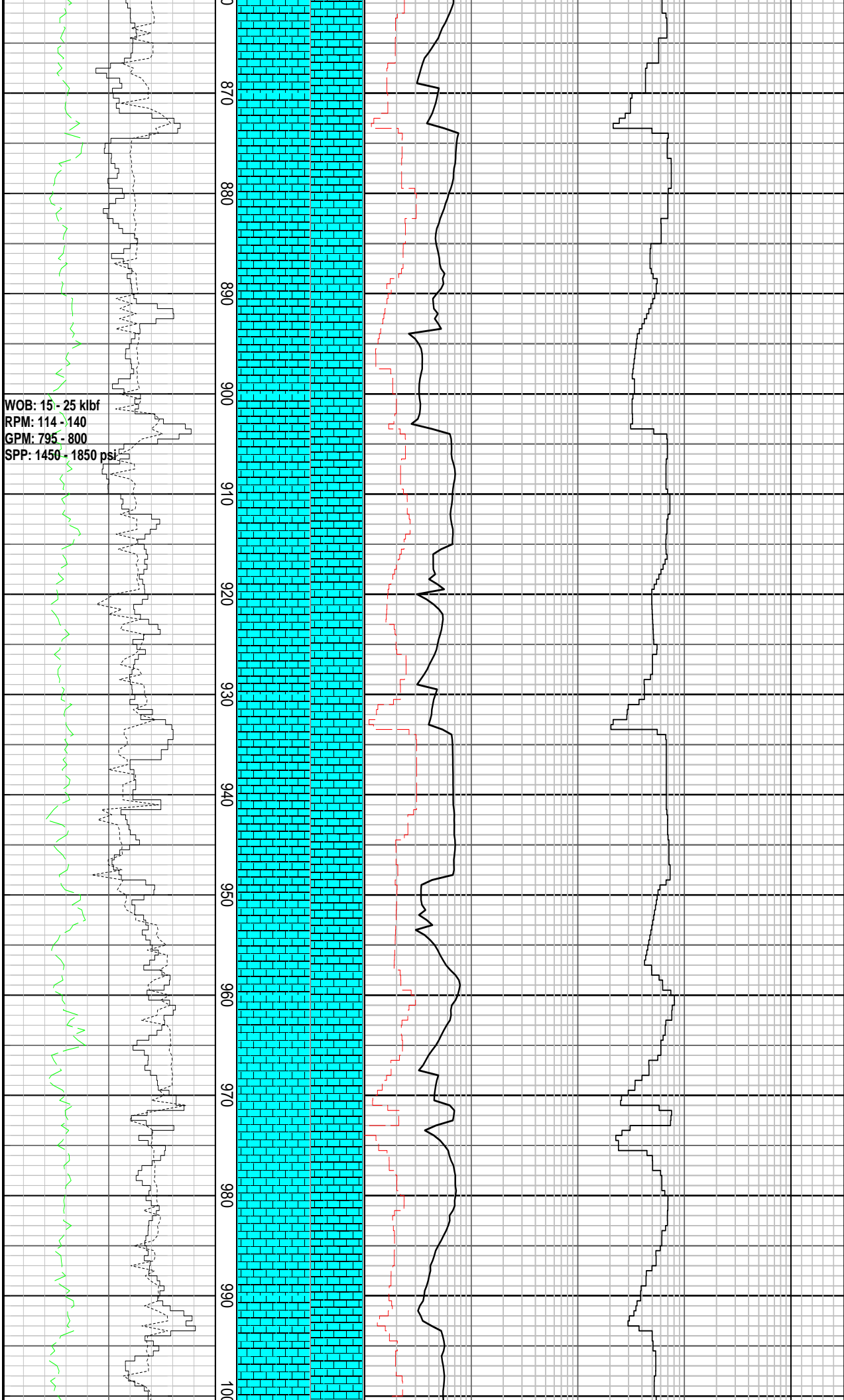
MW: 9.5 ppg FV: 58
PV: 15 YP: 27
Gels: 9/12/15 pH: 9.5

FIT @ 758.0m with 9.5ppg
EMW:17.39 ppg @ 1020psi

MD:746.93 m Azi: 194.47°
TVD: 746.93 m Incl: 0.21°

CALCILUTITE: m gy, v sft-sft,
amor-sbblky, disp, com nod pyr, com
foss & shl frag (foram), mnr xln calc,
tr v f gr qtz, mnr m gy arg mtrx

MD:857.62 m Azi: 288.14°
TVD: 857.6 m Incl: 0.21°



CALCILUTITE: m gy, v sft-sft, amor-sbbiky, disp, com nod pyr, mnr foss & shl frag (foram), tr xln calc, com m gy arg mtx, grd- ARGILLACEOUS CALCILUTITE

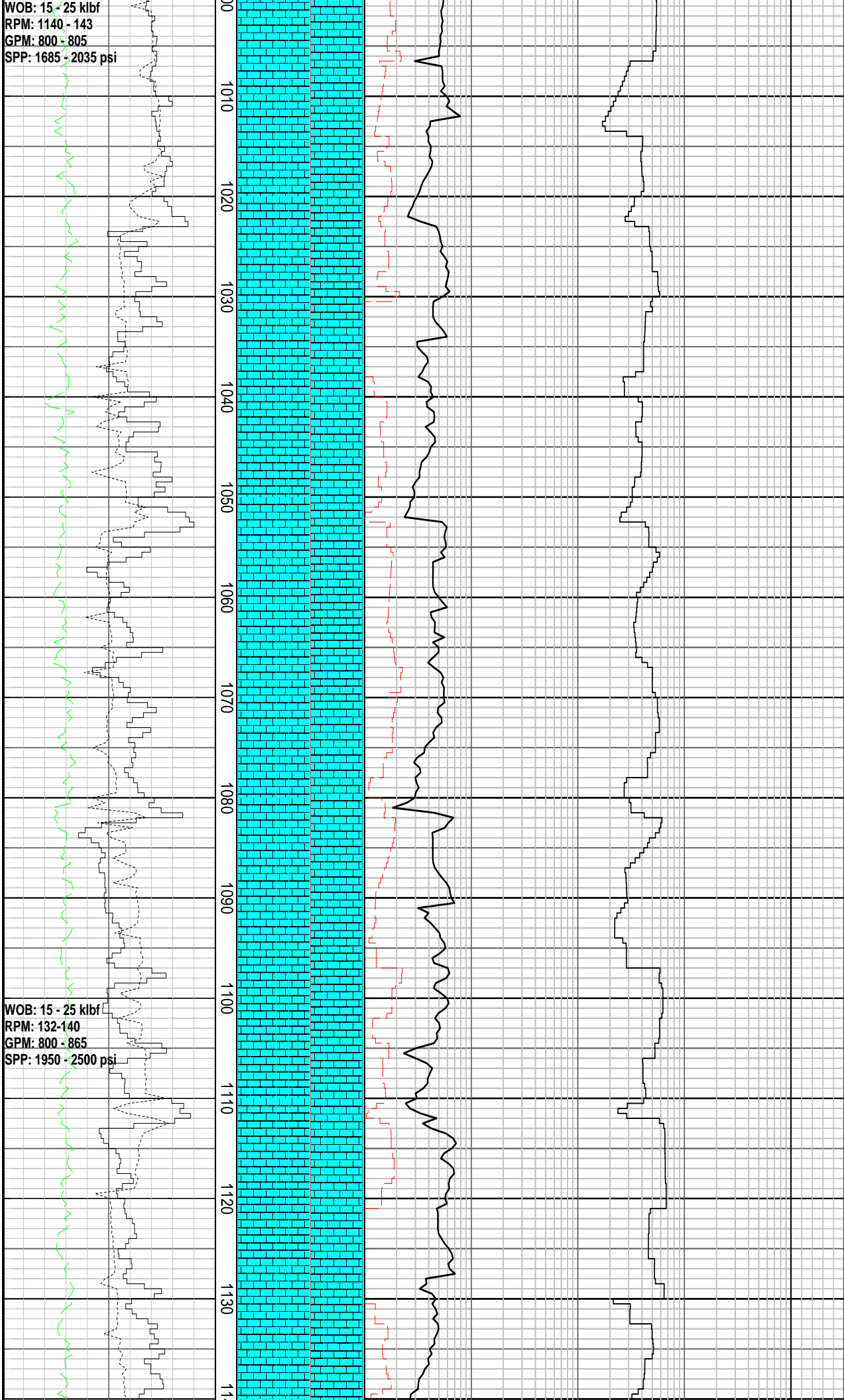
MW: 9.6 ppg	FV: 46
PV: 13	YP: 26
Gels: 9/18/22	pH: 10

MD: 946.72 m	Azi: 341.57°
TVD: 946.7 m	Inc: 0.13°

CALCILUTITE: m gy, sft, amor-sbbiky, disp, tr nod pyr, mnr foss & shl frag (foram), tr xln calc, com m gy arg mtx, grd- ARGILLACEOUS CALCILUTITE

WOB: 15 - 25 klbf
RPM: 1140 - 143
GPM: 800 - 805
SPP: 1685 - 2035 psi

WOB: 15 - 25 klbf
RPM: 132-140
GPM: 800 - 865
SPP: 1950 - 2500 psi

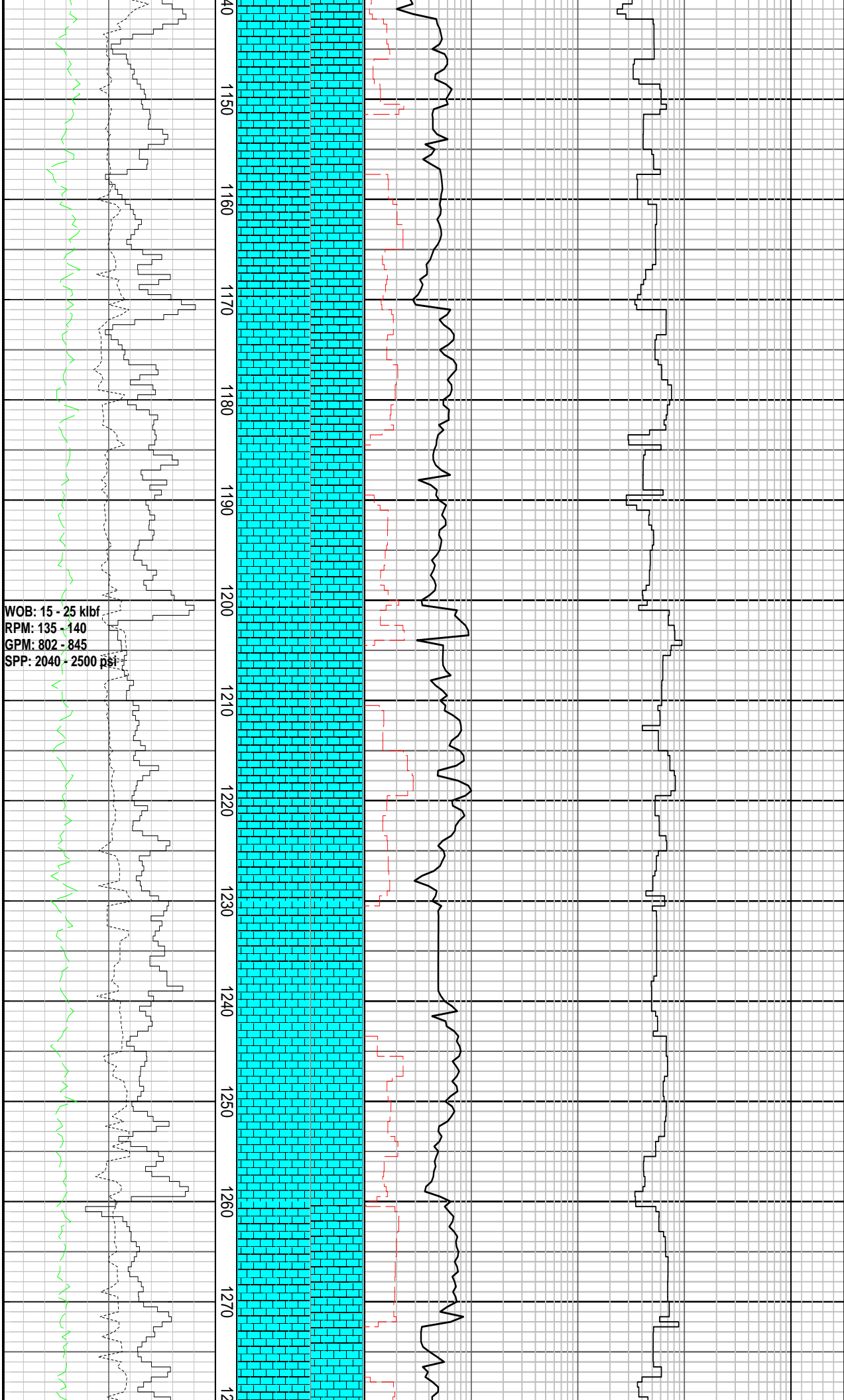


MD: 1035.71 m Azi: 313.67°
TVD: 1035.7 m Inc: 0.13°

ARGILLACEOUS CALCILUTITE: m gy,
sft- mod frm, sbbly, disp, tr foss &
shl frag (foram), tr xln calc, abd m gy
arg mtx

MW: 9.6 ppg FV: 56
PV: 18 YP: 33
Gels: 14/20/23 pH: 9.5

ARGILLACEOUS CALCILUTITE: m dk
olv gy, frm, sbbly-blky, disp, r but
diverse range of planktic & benthic
foram, tr bry frag, tr clus pyr nod, tr
xln calc



MD: 1184.34 Azi: 38.39°
 TVD: 1184.3 Inc: 0.20°

ARGILLACEOUS CALCILUTITE: m olv gy, frm, loc mod hd, sbbiky, disp, foram, tr bry frag, tr clus pyr nod, sli more arg

ARGILLACEOUS CALCILUTITE: m olv gy-grnsh gy, frm, sbbiky-blky, mnr sft mod hd, r foram, tr wh, or, trnsp xln calc, tr pyr

WOB: 15 - 25 klbf
RPM: 135 - 140
GPM: 800 - 805
SPP: 2180 - 2700 psi

06/06/2008

WOB: 15 - 25 klbf
RPM: 135 - 140
GPM: 800 - 805
SPP: 1875 - 2755 psi

1280
1290
1300
1310
1320
1330
1340
1350
1360
1370
1380
1390
1400
1410

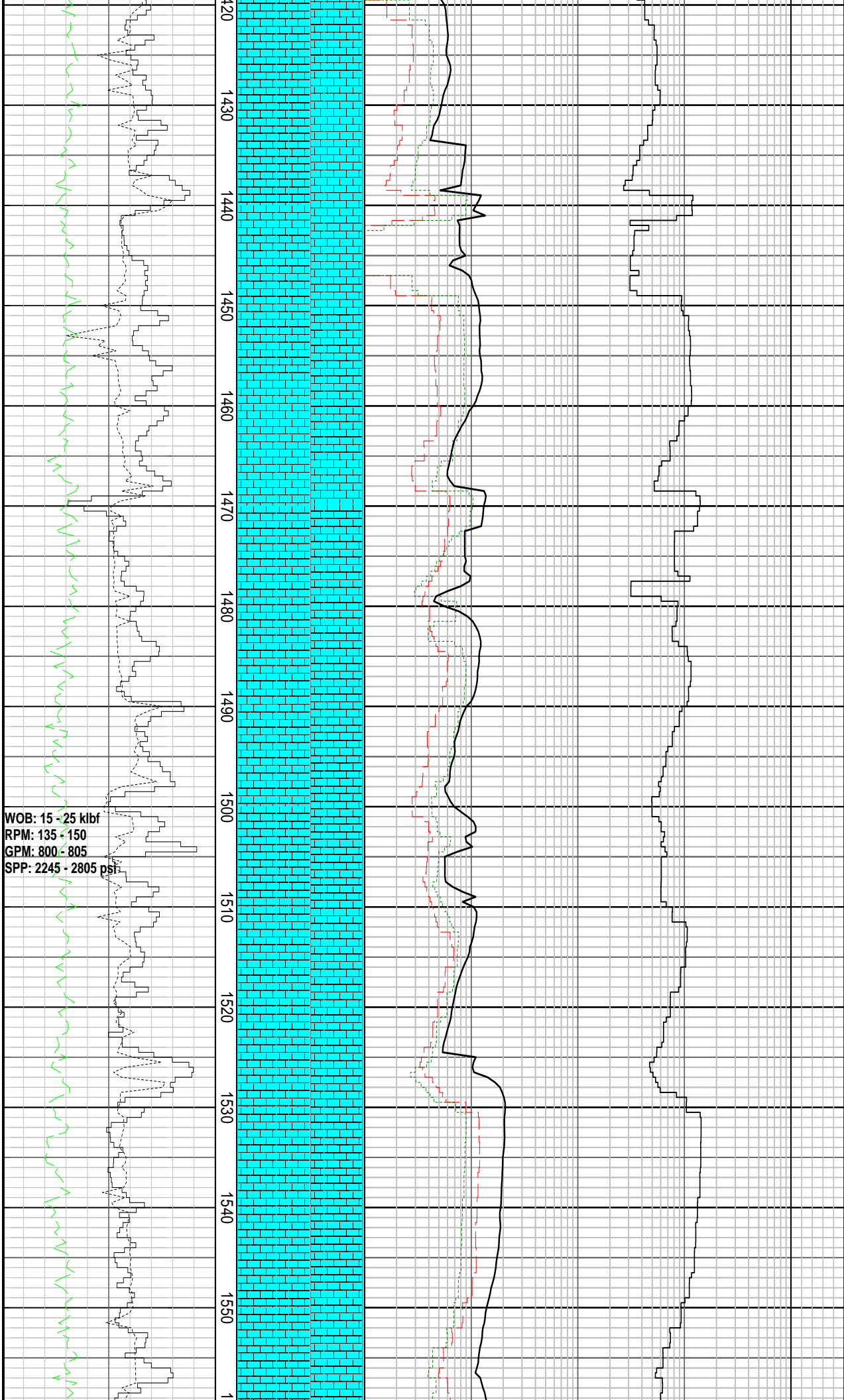


ARGILLACEOUS CALCILUTITE: m olv
gy, frm, sbblky-blky, hom, tr foram, tr
pyr, tr bry, tr or trnsl calc

MD: 1333.11 m	Azi: 19.33°
TVD: 1333.1 m	Inc: 0.43°

ARGILLACEOUS CALCILUTITE: m olv
gy-grnsh gy, sft-hd, mod frm,
sbblky-blky, r planktic foram, tr pyr
nod clus

ARGILLACEOUS CALCILUTITE: lt olv
gy-grnsh gy, sft-hd, mod frm,
sbblky-blky, tr foram, tr pyr nod clus



WOB: 15 - 25 klb
 RPM: 135 - 150
 GPM: 800 - 805
 SPP: 2245 - 2805 psi

ARGILLACEOUS CALCILUTITE: lt olv gy-grnsh gy, sft-hd, mod frm, sbblky-blky, com foram, tr ech spn, tr xln pyr agg

ARGILLACEOUS CALCILUTITE grd to **CALCAREOUS CLAYSTONE:** lt olv gy-m dk olv gy, frm, sbblky-blky, r foram, tr pyr strk, tr lt or trnsl xln calc

MD: 1480.34 m	Azi: 19.34°
TVD: 1480.3 m	Inc: 0.74°

ARGILLACEOUS CALCILUTITE grd to **CALCAREOUS CLAYSTONE:** lt olv gy-m dk olv gy, frm, sbblky-blky, r foram, tr pyr strk, tr lt or trnsl xln calc

tr **GLAUCONITIC CALCARENITE:** lt olv gy spkld gysh gn, frm-mod hd, sbfis, sln, com m-crs sd szgysh gn glau

CLAYSTONE: m gy-m dk gy, frm, brnsh gy i/p, sbblky-blky, tr qtz silt, tr dissem pyr, tr carb frag, non calc

ARGILLACEOUS CALCILUTITE: lt olv gy-m lt gy, m gy, frm, sbblky-blky, hom, disp, abd m lt gy arg mtrx, grd to calc clst

MW: 9.9 ppg	FV: 55
PV: 12	YP: 27

Gels: 11/17/19 pH: 9.0

tr GLAUCONITIC CALCARENITE: It olv gy spkld gysh gn, frm-mod hd, sbfis, sln, com m-crs sd szgysh gn glau

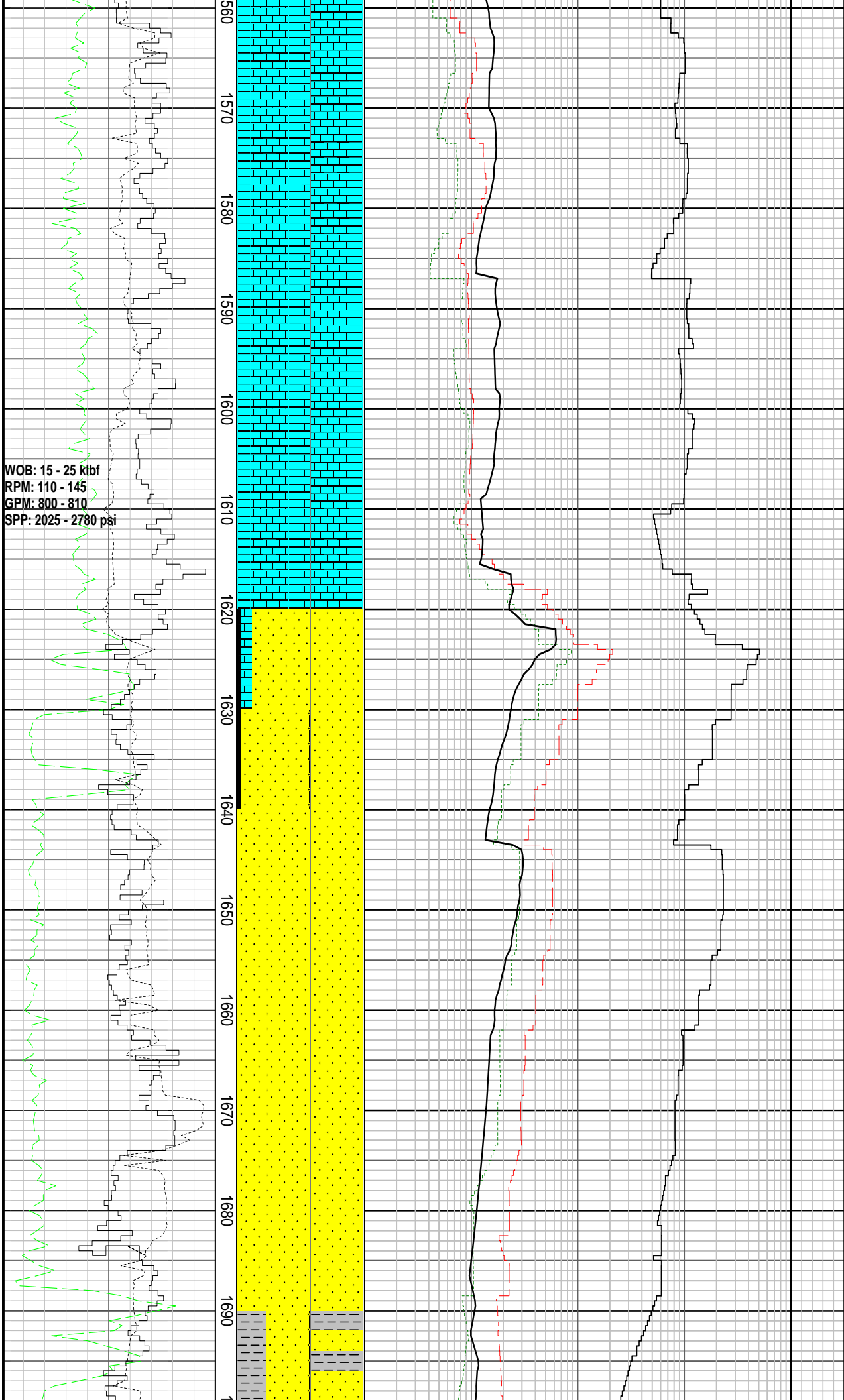
MD: 1596.44 m Azi: 16.38°
TVD: 1569.4 m Inc: 0.83°

FORAMINIFERAL CALCILUTITE: It olv gy-m gy, frm, sbblky-blky, disp, abd foram, f-m gr sz, r nod pyr, abd m lt gy arg mtx

MD: 1599.08 m Azi: 17.89°
TVD: 1599.0 m Inc: 0.79°

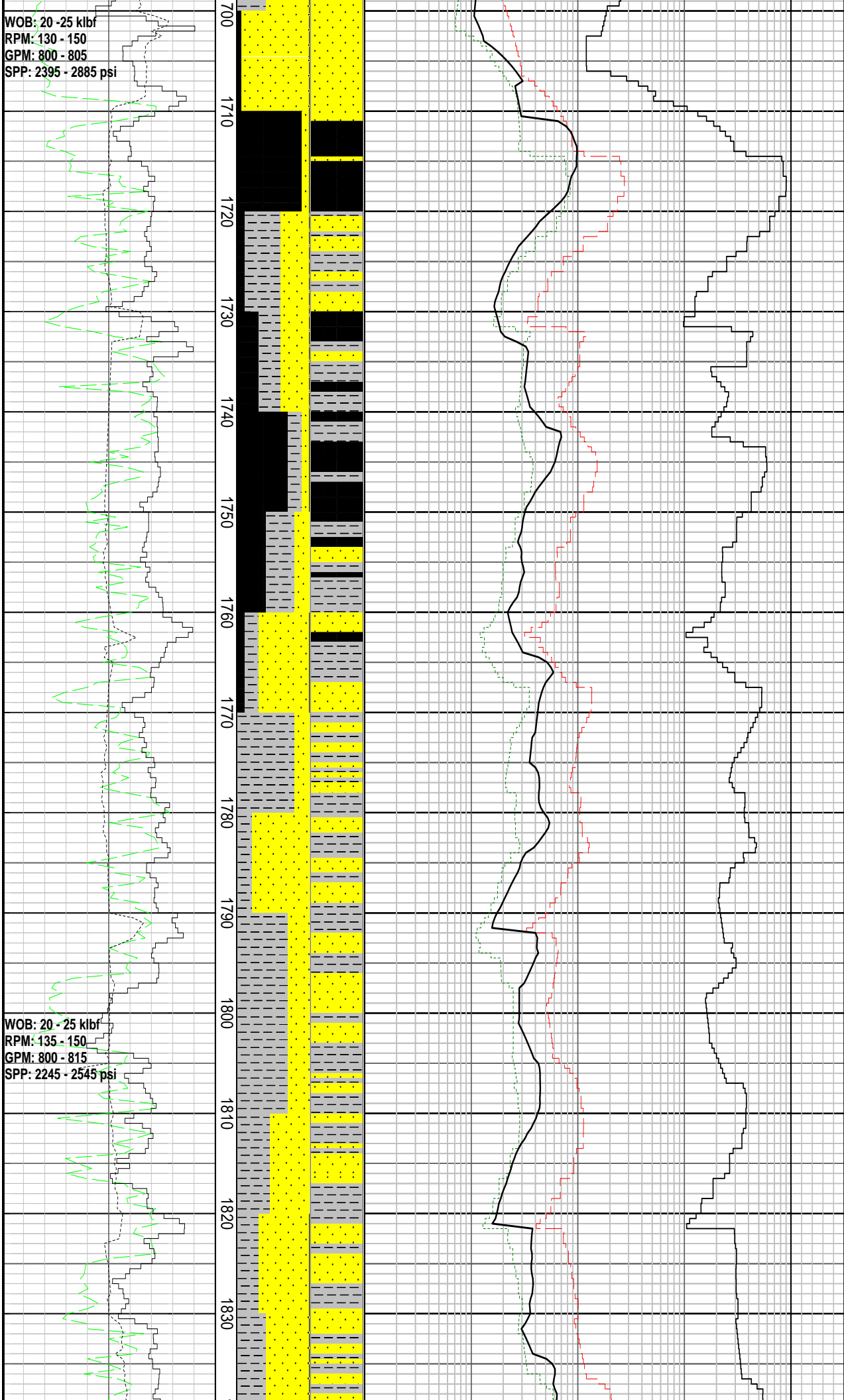
SANDSTONE: quartzose, wh-v lt gy, clr-trnsl gr, tr mky, returned lse, bimodal 60% v crs-gran, 40% f-crs, v crs-gran gr are v ang-rndd, l-hi sph, elong i/p, tr-r nod pyr, tr intgran arg mtx, tr lith gr, gd inferred por, no shw

SANDSTONE: quartzose, wh-v lt gy, tr lt brnsh gy-pl yel or, returned lse, clr-trnsl gr, f-gran, pred crs-gran, abd f-crs, ang-rnd, low-hi sp, pr srt, tr pyr fros on some v crs- gra



WOB: 20 -25 klbf
 RPM: 130 - 150
 GPM: 800 - 805
 SPP: 2395 - 2885 psi

WOB: 20 -25 klbf
 RPM: 135 - 150
 GPM: 800 - 815
 SPP: 2245 - 2545 psi



CALCAREOUS CLAYSTONE: lt gy-m gy, mod frm-frm, sblky-blky, sli disp, mnr disse pyr, loc abd, strongly calc

COAL: brnsh blk-blk, frm, brit, sblky-sbconch, fiss-sbfiss i/p, sb vit-vit lstr

SANDSTONE: quartzose, wh-v lt gy, tr lt brnsh gy, returned lse, f-v crs, pred f-m, mnr-com crs-v crs, ang-rnd, pred ang-sbrnd, mod-hi sph, pr srt, tr lt gy arg mtx, gd inf por, no

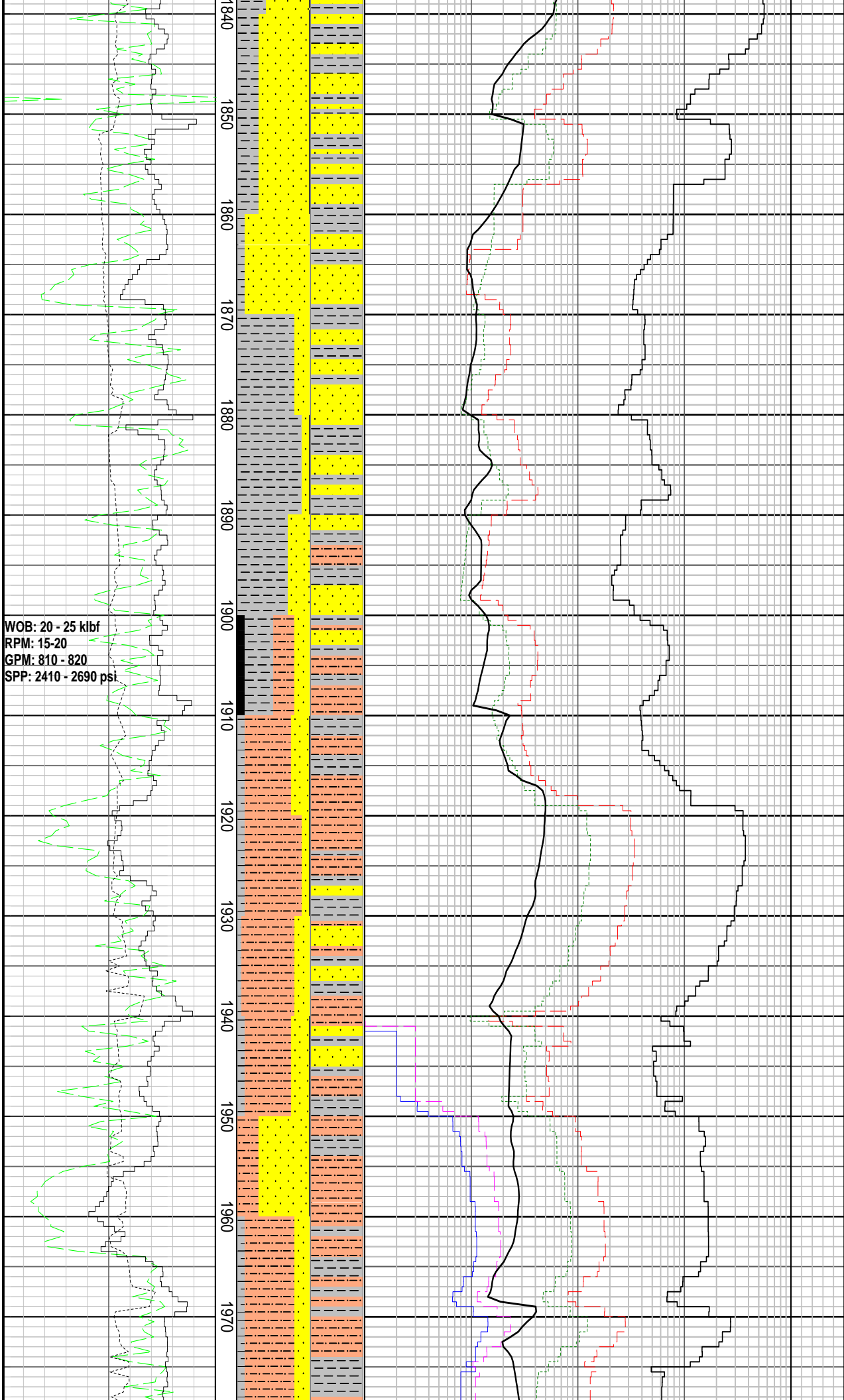
MD: 1745.75 m	Azi: 4.99°
TVD: 1745.7 m	Inc: 1.09°

MW: 9.9 ppg	FV: 53
PV: 17	YP: 33
Gels: 14/21/26	pH: 9.0

CARBONACEOUS CLAYSTONE: m dk gy-dk gy, mod frm-pred frm, sblky-blky, sli disp, mnr disse pyr, abd carb mat, wk calc

SANDSTONE: quartzose, wh-v lt gy, tr lt brnsh gy, rtrnd lse, v f-m gr, pred f-m, mnr v f-f, ang-sbrnd, pred sbang-sbrnd, mod-hi sph, wl srt, tr-r lt gy arg mtx, fr inf por, no s

CLAY: brnsh gy-dk gy, mod frm-pred frm, sblky-blky, sli disp, mnr disse pyr, com carb frag, wk calc



SANDSTONE: qrtzose, wh-v lt gy, tr lt brnsh gy, rtrnd lse, v f-m gr, pred f-m, mnr v f-f, ang-sbrnd, pred sbang-sbrnd, mod-hi sph, wl sr, tr-r lt gy arg mtx, fr inf por

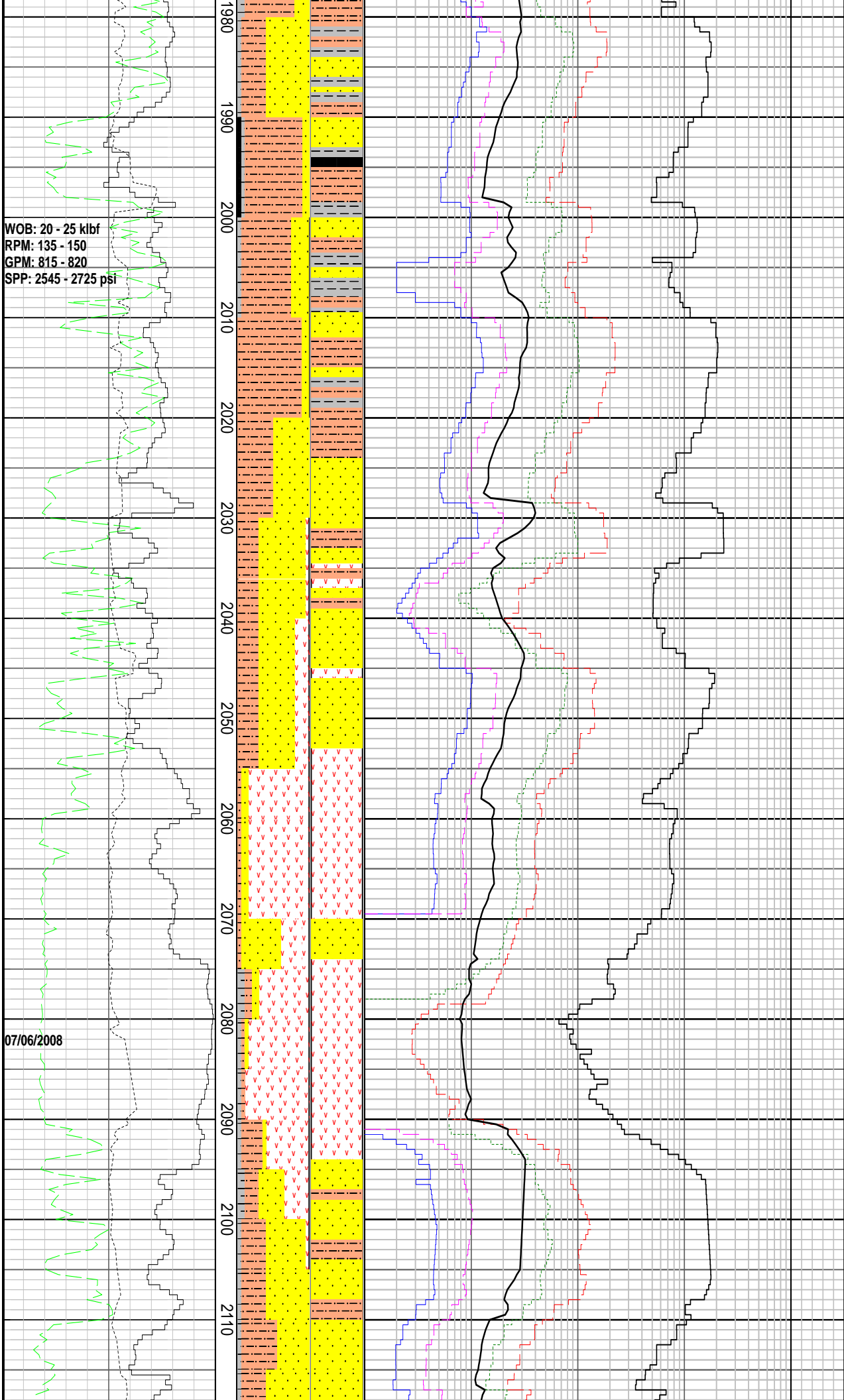
CLAYSTONE: m it gy-m gy, frm, sbbiky-blky, sli disp, tr-r slit, tr nod & dissem pyr, tr carb wisps & frag, non calc

MD: 1893.73 m Azi: 353.25°
 TVD: 1893.6 m Inc: 1.24°

SILTSTONE: lt-m brnsh gy, sft-mnly frm-mod hd, sbbiky-blky, non calc, com hi micaceous, com w/ blk carb-coaly microlam, com nod-irr pyr mas

MW: 10.0 ppg FV: 52
 PV: 17 YP: 29
 Gels: 14/20/25 pH: 9.0

SANDSTONE: quartzose, v lt gy, lse, bimodal 1) v f u-m l, pr srt 2) crs u-gram, mod srt, sbang-sbrnd, sbsph trnsp-trnsl qtz, tr rnd m dk gy lith



SILTSTONE: brnsh gy-gy brn, frm-mod hd, sbfiss-sbblky, w/ abd v f carb spk, non calc, r w/ lenses of microxl n pyr

MD: 2040.91 m Azi: 351.03°
 TVD: 2040.8 m Inc: 1.64°

VOLCANICS: v lt yel-or, frm-mod hd, flk, lt gy grndmass w/ extnsv clay seams & codt, non calc

VOLCANICS: lt gy-lt gnsh gy, spkl lt or yel spkl dk gy, mod hd, blk, non calc, lt gy gndmass, loc apr vnlets lt yel cl, len sulphide, loc acic gy xln. No fluoro

SILTSTONE: brnsh gy-dsky brn, frm-mod hd, sbblky-blky, loc ghly micaceous, loc carb, r carb microlam

SANDSTONE: lt gy, lse, f l-m u, mod srt, sbang-rndd, trnsp-trnsl qtz

SILTSTONE: dk brnsh gy, blk, mod hd, com f carb mat, c lens

BASALT: dk gnsh gy-gnsh blk, hd, blk, loc f-m grnd phenocrysts

CLAYSTONE: v lt brn-lt olb, frm, sbfiss wxy tex, non calc

VOLCANICS: v lt gy-pl gn, sft, sbblky, non calc, r clus pyr xln

SANDSTONE: lt gy, lse, v f u-f u, w srt tr v crs gr, sbang-sbrndd, trnsp-trnsl qtz

SILTSTONE: brnsh gy, dk yelsh brn-dsky brn, mod h, blk-sbfis, non calc, r carc microlam, grd-clst

CLAYSTONE: m gy, fis, pl yel brn i/p, v sft, frm, wxy tex, non calc

SANDSTONE: lt gy, lse, bimod crs u-gran, mod srt, sbord f l-m l, mod w srt, sbang-sbrnd, r w rndd, trnsl qtz

SANDSTONE: crs u-v crs u, r gran, mod ang frag, mnr sbrnd qtz grn, t m dk gy metased lit, incl 10% f-c sst agg



WOB: 15 - 25 kbf
 RPM: 100 - 140
 GPM: 800 - 820
 SPP: 2640 - 2900 psi

It ang blk, stng calc cmt, n vis pol, br
 It yel drt fluo bt n cut,
SILTSTONE: grd-clst, brnsh gy, dk yel
 brn, dsky brn, com carb mat or
 microlam, com lse v c sd-sz pyr nod.
 incl 2% sst brt fluo

SANDSTONE: crs u-v crs u, r gran,
 mnly ang frag, mnr sbrnd sph qtz gr,
 tr m dk gy metased lith. includes 10
 f-crs sst agg, hd ang flk, st calc cmt,
 Rys, rrc, vrb, no cut, inf calc min
 fluo

MW: 11.0 ppg	FV: 51
PV: 18	YP: 30
Gels: 11/22/27	pH: 8.5

CLAYSTONE: m gy-m dk gy, frm,
 brnsh gy i/p, sb blkly-blky, tr qtz slit, tr
 pyr, tr carb frag, non calc

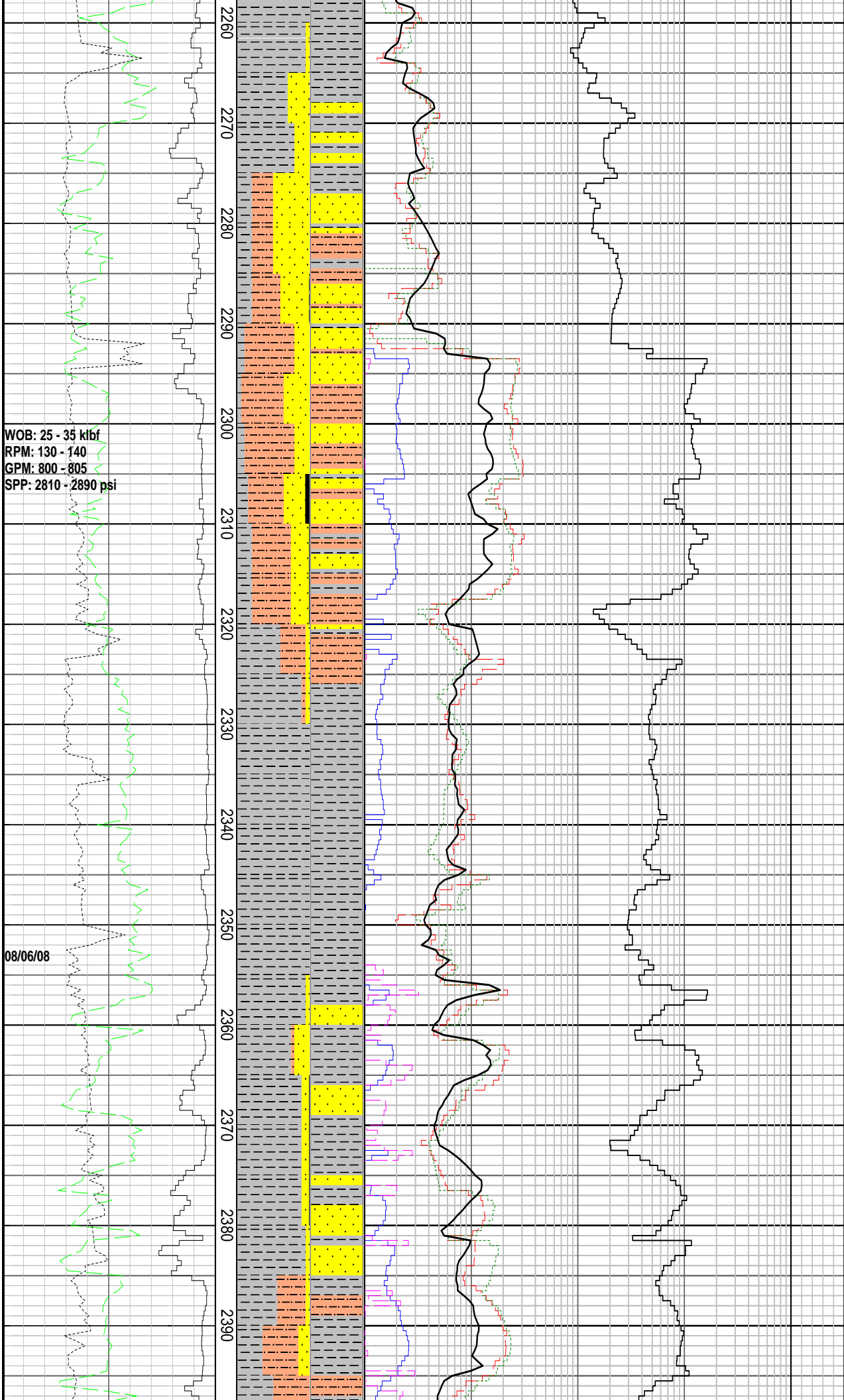
SANDSTONE: qtzose, wh-v lt gy, tr
 mod or pk, cl-pred trnsl gr, rtrnd lse, v
 f-m gr, pred f-m, com v f, ang-sbrnd,
 low-mod sph, w srt, tr calc cmt, tr lith
 gr, fr-gd inf por,

MD: 2188.18 m	Azi: 348.05°
TVD: 2188.0 m	Inc: 1.63°

CLAYSTONE: m gy-m dk gy, lt brnsh
 gy-brnsh gy i/p, frm, sbblkly-blky, tr
 qtz slit, tr dissem&nod pyr, tr carb
 frag, non calc

SANDSTONE: qrtzose, wh-v lt gy, tr
 mod or pk, cl-pred trnsl gr, rtrnd lse, v
 f-m gr, pred f-m, com v f, ang-sbrnd,
 lo-mod shp, tr elong, w srt, nil-tr calc
 cmt, tr lith gr, fr-gd p

MW: 11.0 ppg	FV: 51
PV: 17	YP: 30
Gels: 13/22/26	pH: 9.0



SILTSTONE: m gy-brnsh gy, rm-mod hd, sbbiky-blky, non calc, r v f-f sd, com carb mat&lens, loc com micromica

SANDSTONE: qrtzose, wh-v lt gy, tr mod or pk, cl-pred trnsl gr, mnly lse, v f-m gr, pred f-m, com v f, ang-sbrnd, lo-mod shp, tr elong, w srt, infrd wk srt, cmt, gy lith, non calc,

COAL: blk-brnsh blk, frm-mod hd, fis, shly, prb uphole contam

CLAYSTONE: m dk gy, frm-mod hd, sbfis, tab-elong ctgs, non calc, homo

SILTSTONE: m gy-brnsh gy, rm-mod hd, sbbiky-blky, non calc, r v f-f sd, com carb mat&lens, loc com micromica, grd-clst

CLAYSTONE: m dk gy, frm-mod hd, sbfiss, tab-elong ctgs, non calc, homo, tr lt brn clst prb uphole

MW: 11.0 ppg	FV: 51
PV: 15	YP: 30
Gels: 12/25/-	pH: 9.0

CLAYSTONE: dk gy, frm-hd, sbfis, tab-elong ctgs, non calc, homo, tr lt brn clst prb uphole

SANDSTONE: lt gy, lse, v f l-m u, tr crs, mod srt, ang-sbrnd, trnsp-transl qtz

CLAYSTONE: lt-m brnsh gy, mnr m gy, mnly frm, sbfis-sbbiky, mnr sft, sbbiky, non calc, loc carb strk

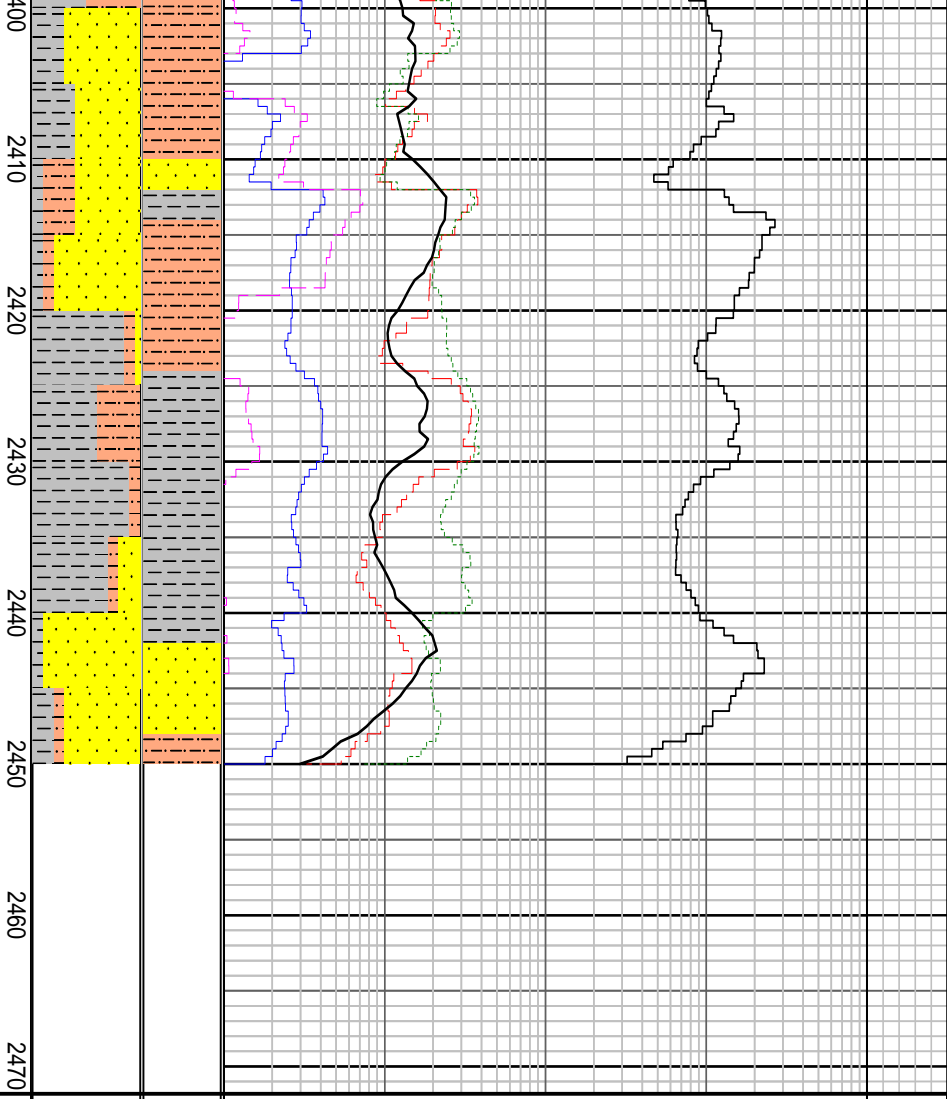
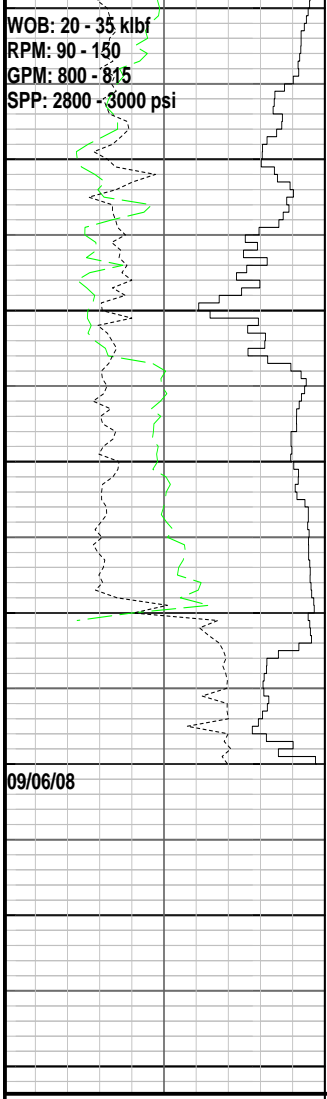
SANDSTONE: lt gy, lse, f l-m l, w srt, ang-sbrnd, trnsp-transl qtz; 5% f sst agg, fri-mod had, loc tnd-rkflr, wkly calc cmnt, pr vis por. No shows

SILTSTONE: m brnsh gy, frm, sbbiky-blky, com v f sd, com-abd blk carb spk, non calc

MW: 11.05 ppg	FV: 48
PV: 16	YP: 28
Gels: 12/23/328	pH: 9.0

MD: 2395.12 m Azi: 329.99'

TVD: 2394.8 m Inc: 1.70°



SANDSTONE: lt gy, lse, v f u-m l, mod srt, sbang-rnd, transp-transl qtz, tr v crs, rnd, sbspheroidal qtz gr no agg

SILTSTONE: m lt gy-m gy, frm, sbbiky-blky, com m gy arg mtr, com f qtz gr, tr wthd fspr gr, tr carb, frag, gr/arg arenite

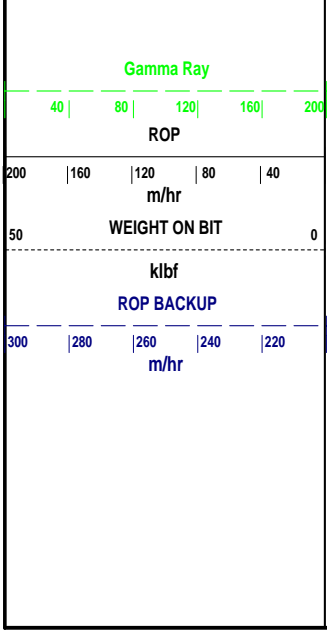
CLAYSTONE: m gy-m dk gy, lt brnsh gy-brnsh gy i/p, frm, sbbiky-blky, tr qtz slt, tr dissem & nod pyr, tr carb frag, non calc

MD: 2433.46 m Azi: 329.48°
TVD: 2433.2 m Inc: 1.58°

SANDSTONE: qtzose, v lt gy, clr-trnsl&mky gr, com rnd lse, fri-frm agg, v f-m gr, pred v f-f r m, ang-sbrnd, tr rnd, l-mod sphericity, w srt, com wh-lt brnsh gy arg mtr, tr wh calc cmt, tr blk lit gr, tr mod brn-mod d li, tr wtd fspr gr, pr-fr inf por

Cut 3-1/2" core @ 2450.0m
MW: 11.0 ppg FV: 52
PV: 18 YP: 32
Gels: 14/26/32 pH: 9.5

09/06/08
2450
2460
2470



Cuttings
MD meters 1:500
INTERPRETED LITHOLOGY

FORMATION EVALUATION LOG				
Chromatograph Data				
Methane ppm				
10	100	1000	10000	50 100
Ethane ppm				
10	100	1000	10000	50 100
Propane ppm				
10	100	1000	10000	
iso-Butane ppm				
10	100	1000	10000	
n-Butane ppm				
10	100	1000	10000	
iso-Pentane ppm				
10	100	1000	10000	
n-Pentane ppm				
10	100	1000	10000	
Ditch Gas %				
0.1	1	10	100	

Analysis
Calcimetry
Dolomite %
DIRECT FLUOR

LITHOLOGY DESCRIPTIONS