

**Well Information**

Operator: NORTHERN CROSS YUKON LIMITED
Well Name: NCY Ehnjuu Choo B-73
Surface Location: 300/H-60-6620-13645/0
Bottom Hole Location: 66:12:10.35N/136:59:01.56W
UWI: 300H60662013645
Pool / Field: Wildcat / Wildcat
Well License #: 1128
Well Licensee: NORTHERN CROSS YUKON LIMITED
Province / State: Yukon
Country: Canada

Elevations

Reference: Sea Level
Ground: 673.2 m
Kelly Bushing: 681.7 m
Casing Flange: m
K.B. to Ground: 8.5 m
Cut(-) / Fill(+): -0 m

Total Depth

Measurement Type	MD	TVD
Drillers TD (Tally)	3350 m	2946.87 m
Drillers TD (Strap or SLM)	m	m
Loggers TD	3353 m	2949.81 m

Well Co - Ordinates

	Longitude	Latitude	Well Type:
Surface Co-Ordinates:	136.590156	66.121035	Deviated
Int. Casing Co-Ordinates:			NS: EW:
Bottom Hole Co-Ordinates:			NS: EW:
UTM Surface Co-Ordinates:	Northing: 7343938.1		Easting: 410691.44

Well Summary

Spud Date: Apr 16, 2013 @ 02:00hrs
TD Date: Jun 22, 2013 @ 13:45hrs
Rig Release Date: Jun 26, 2013 @ 23:59hrs
Contractor: Patterson-UTI Drilling Company

Logging Tool Summary

Job #	Run #	On Bottom Date	BH Temp	Tool Type
1	1	Apr 24, 2013 @ 19:45hrs	39.1 °C	DSI, PPC, GPIT from 366 to surface.
1	2	Apr 24, 2013 @ 22:10hrs	32 °C	AIT, PEX, HNGS to surface.
2	1	May 11, 2013 @ 05:55hrs	43.8 °C	
2	2	May 11, 2013 @ 12:00hrs	43.8 °C	
2	3	May 12, 2013 @ 00:15hrs	43.8 °C	FML, GPIT, Sonic Scanner, PPC2 (v2), GPIT, PPC-2

Drilling Fluid Summary

Fluid Type	From	To
Gel Chemical	0 m	366 m
KCL Ultradriill	366 m	1252 m
KCL Ultradriill	1252 m	3350 m

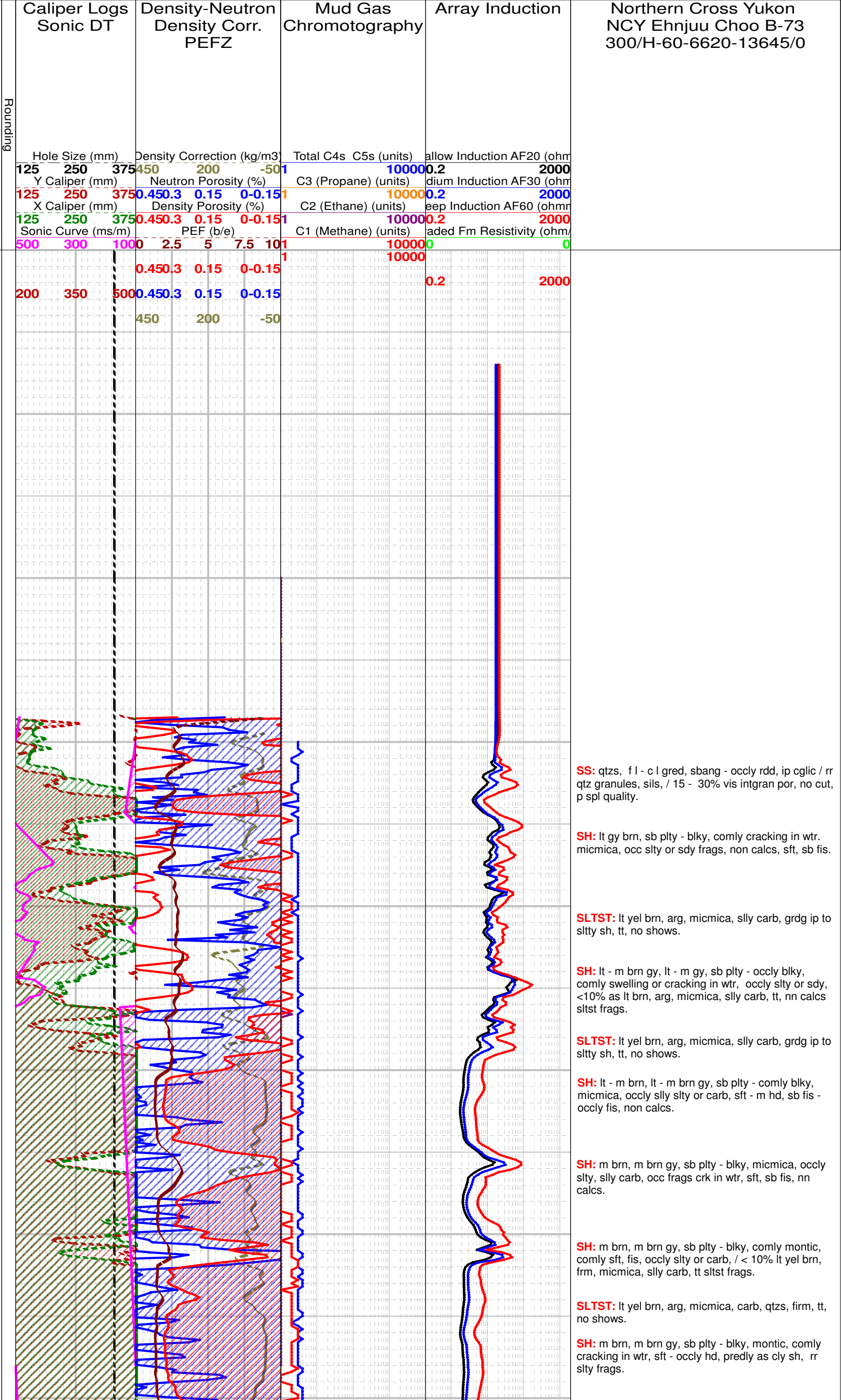
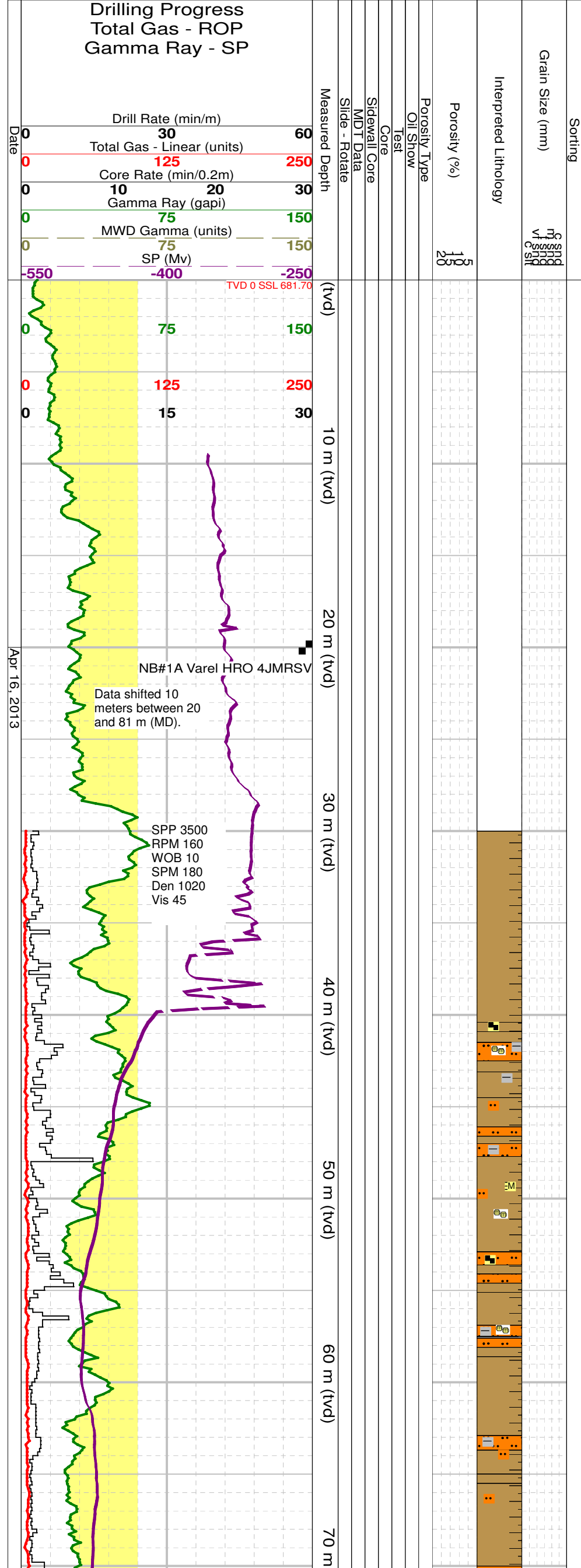
Work Schedule

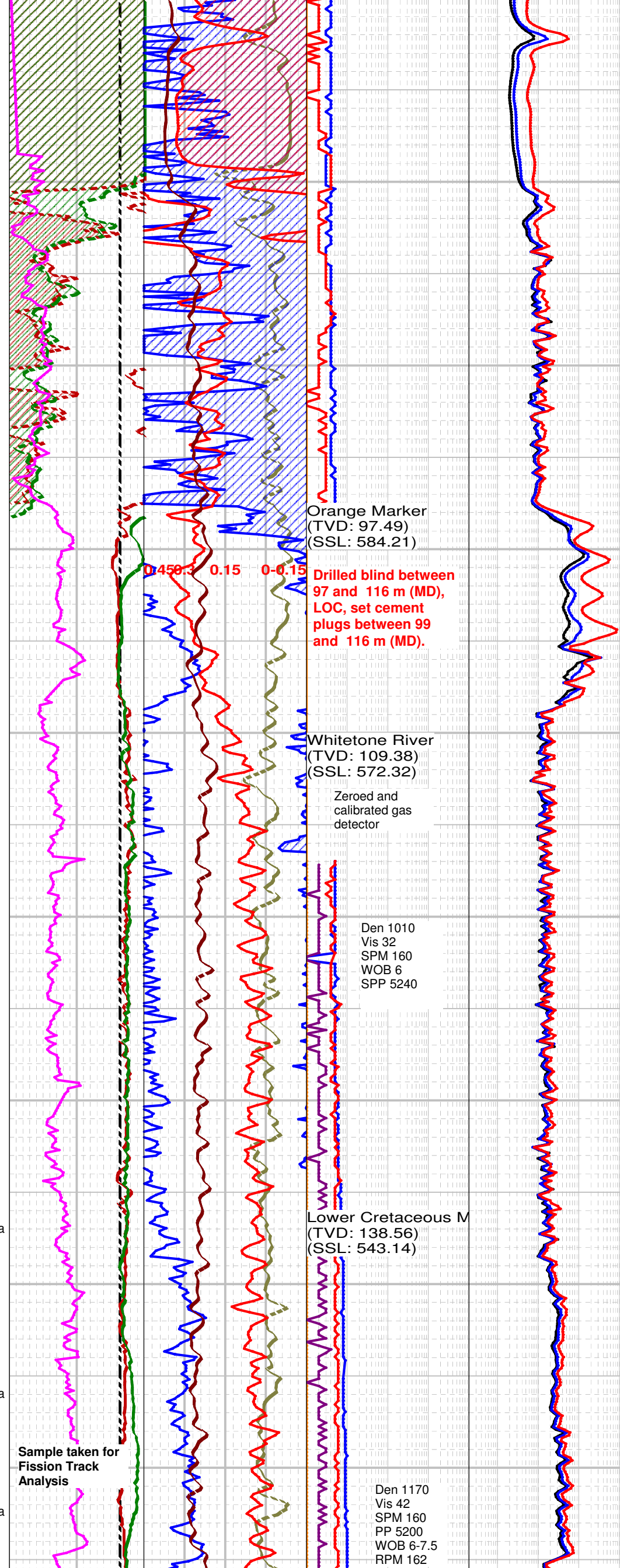
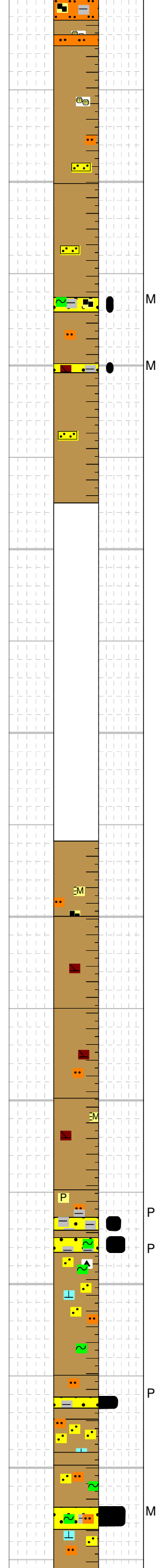
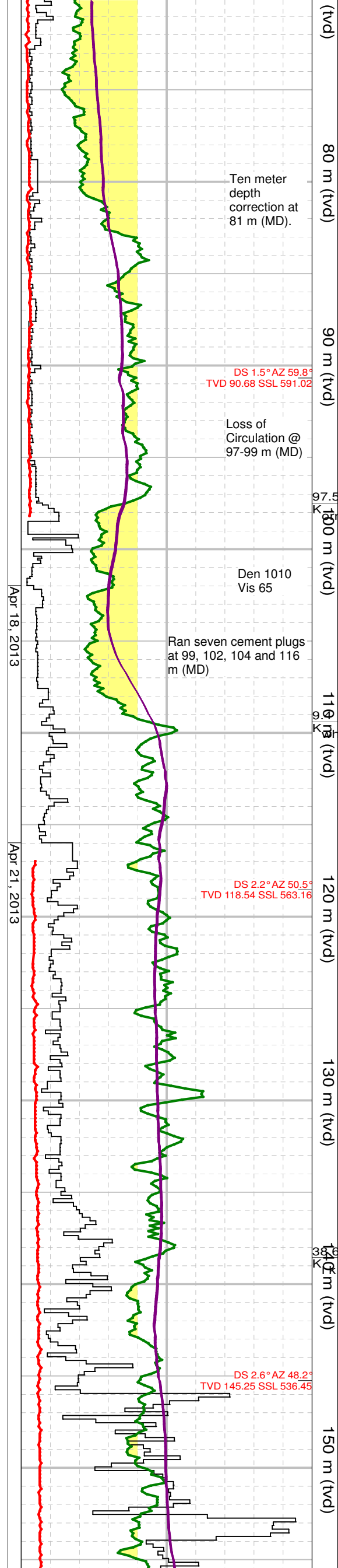
Contractor	Geologist	Log Interval	Dates Logged
Keitech Consultants	Trevor Wall/Harry Gluth	20 m - 3350 m	Apr 15, 2013 - Jun 27, 2013

Casing Summary

Type	Hole Size	Casing Size	Landed
Surface	444.5 mm	339.7 mm	366 m
Intermediate	311 mm	244.5 mm	1249 m
Intermediate	222 mm	177.8 mm	2853 m
Liner	156 mm	114.3 mm	3349 m

Remarks





SH: m brn gy, sb plty - blkly, micmica, occlly cracking in wtr, micmica, sft - occlly hd, fis -sb fis, predly as cly sh, / < 10% lt yel brn, carb, arg, micmica, tt qtzs sltst frags.

SH: m brn gy, sb plty -blkly, micmica, sft, sbfis - fis, montic, micmica, occ frags / sidic or sily chty m brn lam, as cly sh.

SH: m brn, m brn gy, sb plty - blkly, micmica, sft - hd, sb fis, occ slty frags, predly as cly sh, nn calcs, / < 10% lt yel brn, arg, micmica, sily carb, qtzs, tt sltst frags.

SH: m brn, m gy, m brn gy, sb plty - blkly, micmica, sft - occlly hd, sb fis, non calcs, rr slty frags, tr gy qtzs, arg, slty - v f u gred, tt, sils, glaucic ss frags.

SH: lt - m brn, lt - m brn gy, comly swelling in wtr, predly as cly sh, rr carb grs, locally / l f, sbang - sbrdd, v arg, locally micas, sily glaucic, qtzs - s&p, tt ss stringers.

No Sample: Drilled blind between 97 and 116 meters (MD), no samples coming across the shakers.

SLTST: lt - m brn, slty - occlly v f l gred, cons, s&p, locally sily calcs, sily carb, comly arg, tt, no shows.

SH: lt - m gy, sb plty - sbbkly, micmica, comly sily slty, carb, sft - hd, sb fis, 7-8% m brn, crpxl fest frags, 10-15% cmt cvgs.

SH: m gy, sb plty - blkly, micmica, sily slty, sdy,carb, predly non calcs, rr pyr, sft - hd, sb fis, 8% crpxl fest frags.

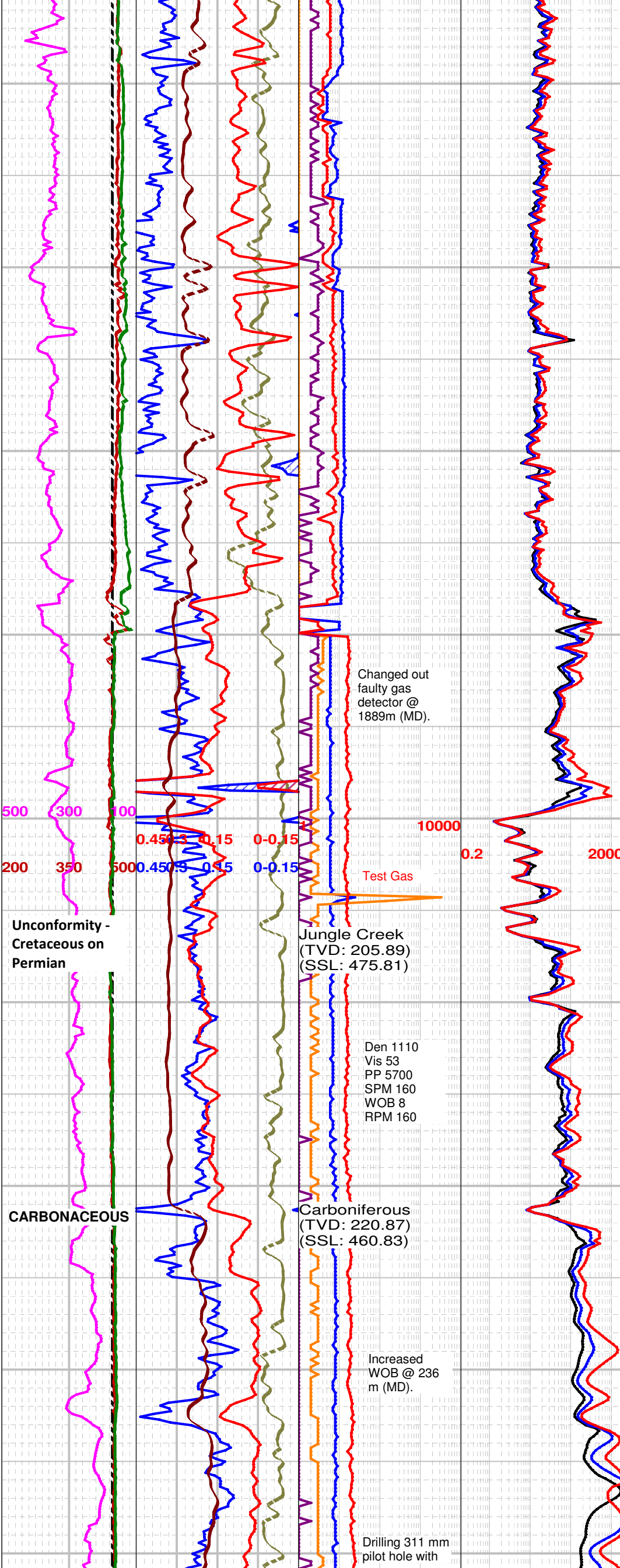
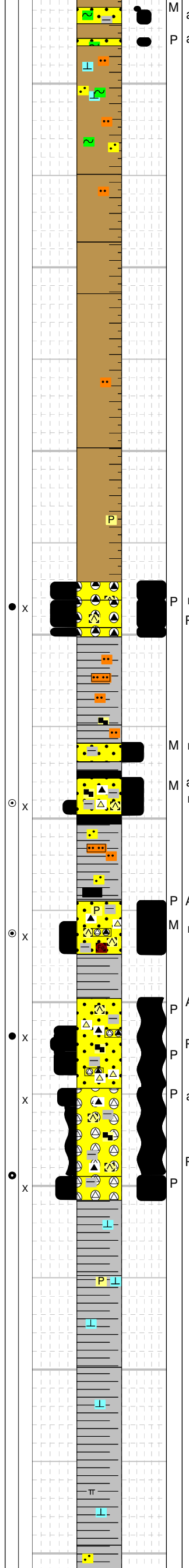
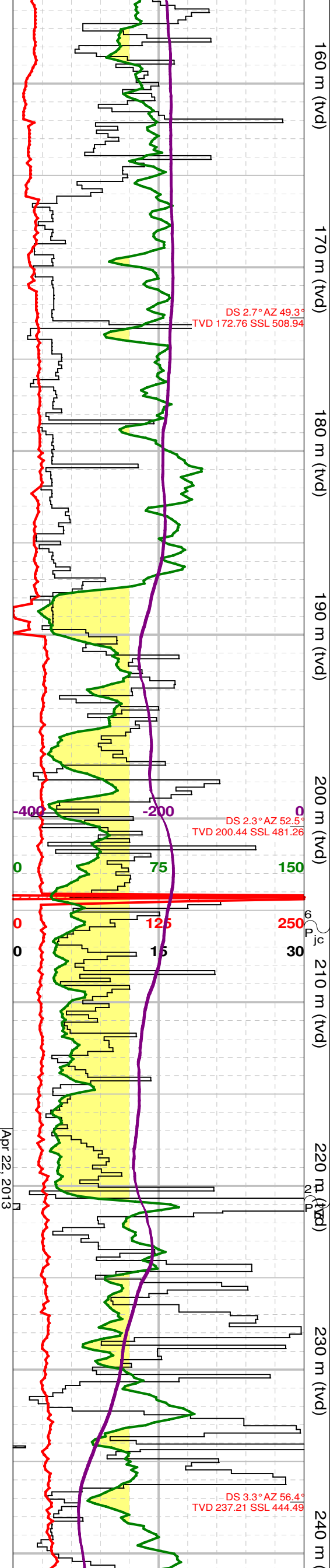
SH: m gy, m brn gy, sb plty - blkly, micmica, locally sily slty, sdy or sily carb, frags crack in wtr, predly as cly sh, sft - occlly hd, fis ip, sily calcs, 3% lt brn, m brn fest frags.

SS: cons,lt - m brn gy, s&p, v arg & ip not clast supported, f - occlly l m gred, v glaucic, micmica, / rr dk cht grs, v py srt, ang - sbrdd, predly / a lt - m brn gy arg mtx occ calcs frags, tt, no shows.

SH: m gy, m brn gy, rr m brn sh frags, sb plty - blkly, micmica, comly slty, sdy, locally glaucic, sft - hd, occlly fis, rr pyr, rr calcs frags, 3% m brn fest frags.

SS: lt gy, lt gy brn, slty - f l gred, ip as stringers in sdy sh, modly srt, qtzs - s&p, / < 15% dk cht & carb flks & grs, comly / lt - m gy brn arg mtx, sily pyric, glaucic, / spotty calcs cmt, tt, no shows.

SS: cons, lt gy, lt gy brn, slty - l m gred, sbang, s&p, / , 10-20% dk cht & carb grs & flks, pyric, micas, py srt, comly / m brn gy, m gy arg cmt, grdg to slty, sdy sh ip, no shows.



SS: cons, m brn, lt gy, f - m gred, sbang - sbrdd, p - modly srt, comly / abnt glau grs, qtzs, locally / dk cht grs, comly / brn, m brn gy arg cmt, predly py srt & v arg & ip grd to glauc, sdy sh, sly pyric, rr frags / 1-8% dd bit plugged intgran por, p reservoir, no shows.

SH: m brn, m brn gy, sb plty - blk, micmica, micas, sly pyric, sly, sdy, locally glauc, sft, predly non fis.

SH: lt - m gy, m brn, m brn gy, sb plty - blk, occ frags crack in wtr, micmica, pyric, comly sly & sdy, sft, sb fis, tr m brn, crpxl fest frags.

SH: m brn, m brn gy, ocly lt gy, lt gy brn, sb plty - blk, rr frags crk in wtr, comly sly sly, sdy, pyric, occ glau grs, sft - hd, fis ip, tr m brn fest frags, non calcs.

SS: m brn gy, sly - f l gred, occ frags / u f - l m floating qtz grs, py srt, / abnt m brn arg cmt, sly pyric, occ glau grs, p gr relief, no shows.

SH: m brn, m brn gy, sb plty - blk, micmica, sly pyric, predly as cly sh, occ sly sly & sdy frags, sly carb, occ frags crack in wtr, sly carb, non calcs.

SH: m brn, ocly lt - m brn gy, plty - predly sbbly, micmica, occ carb flks, predly as cly sh, occ sly or sdy frags, rr v pyric frags, nn calcs.

DK CHT CGL: predly as uncon & fracd m - dk gy, dk brn, m brn, rr bk, rr off wh or lt gy c - gran sbrdd - rdd cht grs, cht grs / pr sin pits or / occ sils drs rims, rr euthdral qtz xls, as clst supd cgl, mtx rims rr & as f u - c l gred, s&p, modly srt, sils, ang - sbrdd, nn calcs, comly fld / liguid m brn o, **10-18% intgran por, rapid mky gn blomg cut flor, o over shakers.**

SS: lt brn, lt gy brn, s&p, f gred, comly silty, v f l - v f u gred, rr floating u m qtz & cht grs, sbang - sbrdd, / < 20% dk brn, blk, gy, cht grs, sils, comly / lt - m brn arg mtx, carb, brit, sly kaoc, p - modly srt, p - g gr relief, rr frags / faint v f coal lam, ip tt, **spotty 1-10% vis intgran por, wk slow gn blomg cut flor.**

SS: 10-15% s fracd, uncon, off wh, lt gy, lt brn, m brn, rr org, gy brn m - c cht grs & cht grnls & rr sb hedral qtz grs, in pt as mtx supd cglic ss, mtx ss lt yel brn, org brn, f - m gred, ang - sbrdd, p - modly srt, comly / patchy org brn arg mtx, rr patchy mas pyr, sils, locally / sil overgrowths, carb, **spotty o stng, spotty 1-12% vis intgran por, rapid, gd mky lt gn blomg cut flor.**

SS: predly as ip fracd, uncon, off wh, gy, brn, m - c sbrdd - rdd cht grs & cht grnls & f - rr grnls & rr sb hedral qtz grs, in pt as mtx supd cglic ss, mtx ss lt yel brn, org brn, f - m, rr c l gred, ang - sbrdd, p - modly srt, comly / patchy org brn arg mtx, rr patchy mas pyr, sils, locally / sil overgrowths, carb, **rr faint coaly lam, spotty o stng, spotty 1-16% vis intgran por, rapid, gd mky lt gn blomg cut flor.**

215 - 220m LT CHT PBL CGL: predly as fracd wh, lt gy, lt - dk brn, cht grnls, cl supd, ss mtx lt - m brn, f - ocly l m gred, sbang - sbrdd, s&p, comly / m brn, org brn in pt fer arg mtx, locally / coaly lam, sils, **locally / abnt dd carb mtx, r o filled por, spotty 1-8, rr 12% vis intgran por, wk rapid yel gn blomg cut flor.**

SH: p spl quality, abnt LCM in spl, m brn, ocly lt gy, sb plty, micmica, v calcs, micmica, tr disp v f pyr, predly as cly sh, firm, non fis.

SH: 35% lt - m brn, lt gy brn, comly dk brn, sb plty - blk, micmica, sly carb & micmica, v calcs, hd, non fis.

SH: lt - dk brn, sb plty - blk, micmica, v calcs, tr pyr, rr carb flks, mrlly.

SH: m brn, m brn gy, sb plty - blk, calcs, comly

Changed out faulty gas detector @ 1889m (MD).

Test Gas

Unconformity - Cretaceous on Permian

Jungle Creek (TVD: 205.89) (SSL: 475.81)

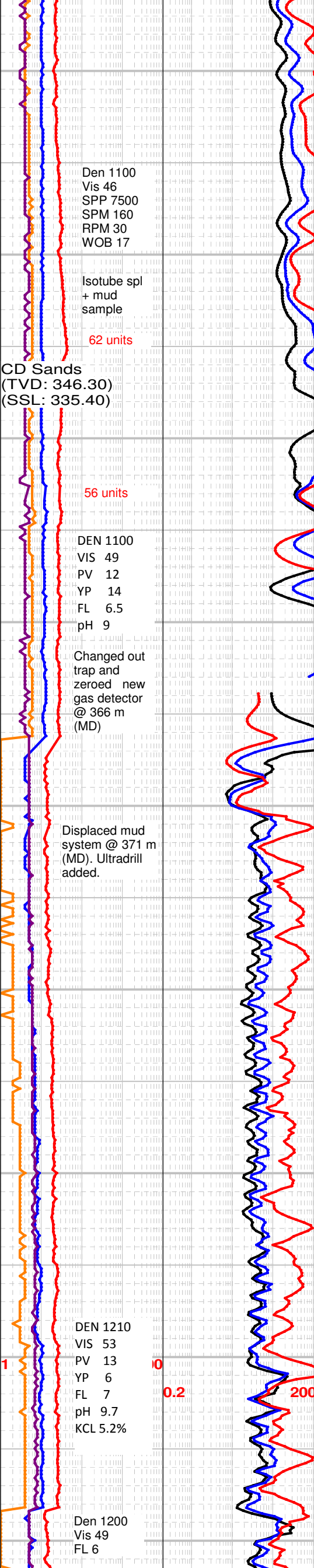
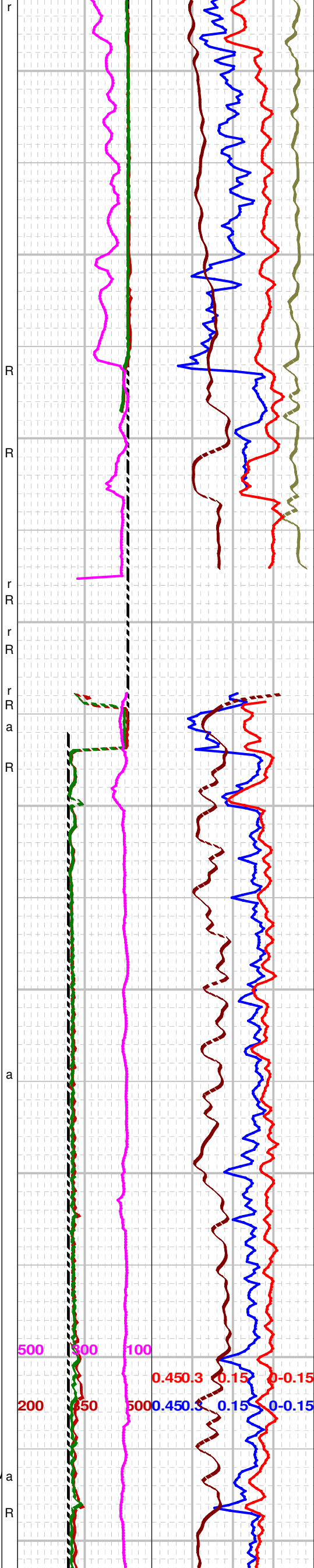
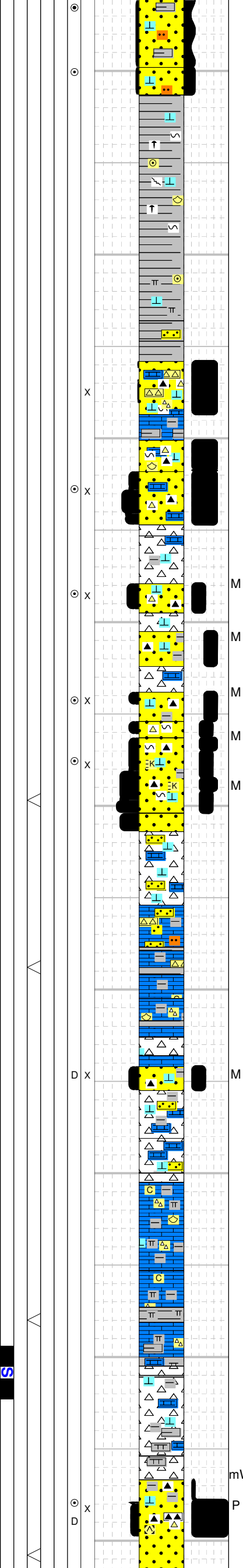
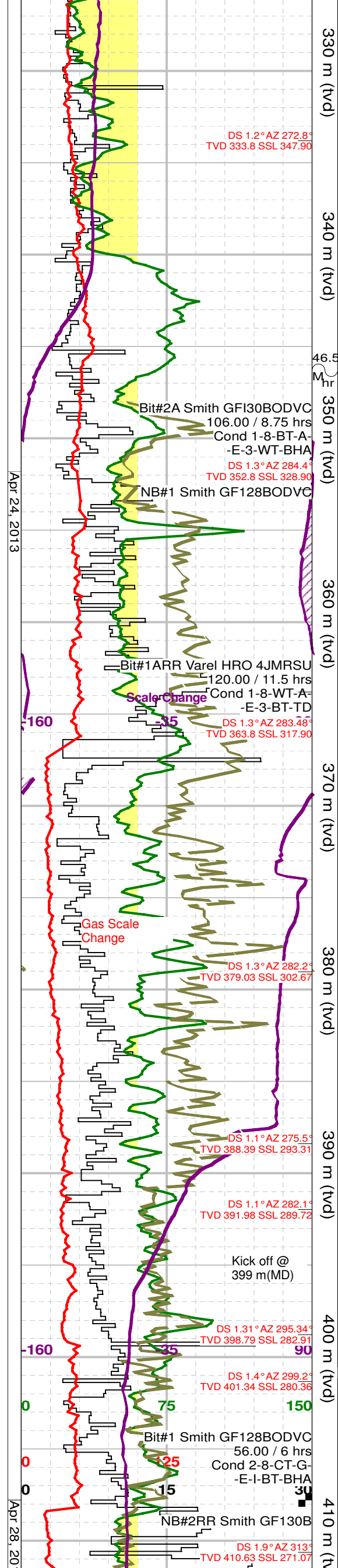
Den 1110
Vis 53
PP 5700
SPM 160
WOB 8
RPM 160

Carboniferous (TVD: 220.87) (SSL: 460.83)

Increased WOB @ 236 m (MD).

Drilling 311 mm pilot hole with

Apr 22, 2013



SH: dk brn, blk, calcs, comly slty & sdy, micmica, locally / brn mica flks, v firm, sily pyric.

SH: m - dk brn, sb plty - blk, micmica, pyric, v calcs, frm, brit, rr bracs & crins, rr calc lined fracs, spicr, sily slty, sily bits.

SH: m - dk brn, sb plty - blk, micmica, pyric, v calcs, mrly, frm, brit, sily slty, bits, occ crins.

SS: cons, s&p, lt brn, occlly off wh, f - c u, rr v c u grs or granules, as mtx supported cglic ss, ang - rdd, / vcol cht grs, v calcs, sils, frags occlly / off wh trnsl cht cmt, p - modly srt, **spotty 6-8 %, rr 10% intgran bit plugged por, g yel gn blomg cut flor.**

LS: lt - m brn, crpxl, as brac mdst, comly chty & iip grdg to calcs cht, occlly arg, mrly, dns & tt, no shows.

SS: cons, s&p, lt brn, occlly off wh, f - c u, rr v c u or as granules, as mtx supported cglic ss, ang - rdd, / vcol cht grs, v calcs, sils, frags occlly / off wh trnsl cht cmt, p - modly srt, **spotty 6-8% sft intgran bit plugged por, g yel gn blomg cut flor.**

SS: predly as unconcs, f u - c l, sbrdd - rdd, rr ang wh, lt gy, lt - dk brn, blk cht & qtz grs, cons frags s&p, off wh, org brn, calcs, / spy org brn or occlly off wh arg mtx, sily sils, modly srt, **comly tt & / p gr relief, rr frags / 1-8% blk bit plugged intgran por, wk fnt yel gn blmg cut flor from bits frags, carryover?**

SS: cons, off wh, lt org brn, gy brn, sbrdd - rdd, occ ang frags, f - u m gred, locally / floating c l qtz & cht grs, s&p, / < 35% cht grs, v calcs, cons frags crush to a f powder & diagenetically altered, sily sils, abnt sb hedral - euhedral qtz grs, comly fri below 366 meters (MD), patchy off wh, org brn & q bit stdn arg cmt, **predly tt, rr frags / 1-6% blk dd bit plugged intgran por, bcmg 1-10, tr 15% below 366m(MD), spotty wh intgran kao, spotty intgran ip dd bit, spotty sticky tar plugged intgran por, kao mtx por? wk, p, rapid yel gn blomg cut flor, trip@366m(MD).**

LS: 15% off wh, chky, fri, comly sily slty & sdy, occlly arg, predly lt - m yel brn, as mdst, comly chty, locally arg or mrly, grdg ip to calcs trnsl cht, 15% off wh, cons, s&p, arg, predly v f l - v f u gred, tt ss / v p gr relief, no shows, 4% m - dk brn, hd, calcs sh.

LS: 40% off wh, chky ip, comly arg, slty & sdy, comly lt yel brn, crpxl, as mdst, rr bracs.

SS: cons, s&p, predly v f l - v f u gred, arg, v calcs, & tt & / p gr relief, rr f - l m gred frags / floating c cht grs, sbang -sbrdd, locally rdd, sily sils. **& / 1-6% blk bit plugged intgran por, no cut flor.**

CHT: lt gy, lt - m brn, calcs, mas, rr spicular frags, tt, 30% as chky, comly arg, slty, sdy ls or m brn, yel brn, chky crin mdst - wkest, / < 10% off wh, lt gy, v f l - v f u gred, tt s&p ss frags.

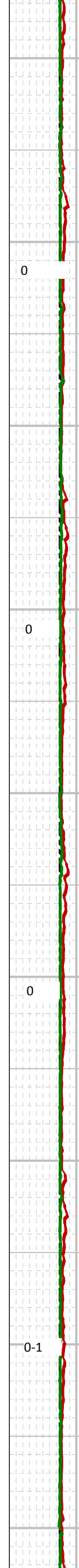
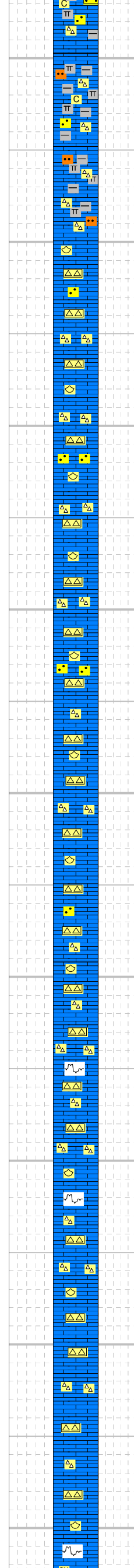
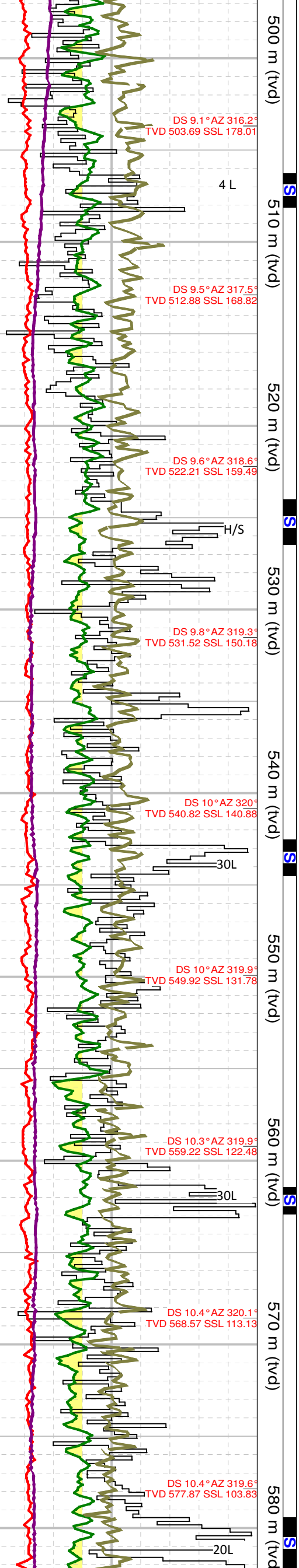
LS: 25% off wh, chky, predly m brn, m yel brn, crpxl, as brac, coral mdst, chty, arg, locally mrly, tt, no shows.

LS: 25% off wh, v lt brn, chky, fri ip, as chky arg mdst, locally mrly, predly m brn, m brn gy, m yel brn, rr bracs, crins, crpxl, chty, mrly, dns & tt, no shows.

CHT: yel brn, gy brn, calcs, comly / m brn arg or bit bands, calcs, rr spicular cht frags, grdg ip to chty, locally mrly ls, 20% off wh, chky, tt, occlly arg, mrly, locally chty ls frags, tt no shows.

SS: predly off wh, v f l - occlly v f u gred, v calcs, arg, tt above 408m(MD), bcmg f - c gred & sily granular below 408m(MD), Below 408m(MD) as predly unconcs blk, occlly gy, off wh, lt - m brn rdd cht grs, / off wh, lt - m brn, cons, s&p, calcs, p - modly srt, sbang -sbrdd, sily sils, **ss mtx / amber brn intgran bit, fr gr relief & rapd mod yel gn**

Apr 30, 2013



0.450.3 0.15 0-0.15

Den 1200
Vis 60
PV 26
YP 10
FL 5.5
pH 9.5
KCl 7.2

chty, 5% of frags grd to v f l - v f u gred, arg, calcs, tt s&p ss, 40% m yel brn, m brn, crpxl, comly arg & more chty than chky frags, as mdst, rr calc druse lined vugs or fracs, 7% dk brn, blk, calcs, sh.

LS: 65% of frags off wh, occlly mot brn, crm, chky texd, fri in pt, comly arg, mrlly, slyly slty, sdy or chty, 35% m yel brn, m brn, crpxl, comly chty, arg, locally mrlly, 3% m brn calcs, blk sh, 20% of frags cht replaced, no shows, rr blk styls, rr off wh, v f l - v f u gred, tt, arg, calcs, s&p ss frags.

LS: off wh - yelsh wh, crpxl, com org resd on digestion in HCl, occ brac frag, dns, tt, mot or intbd chty Ls

CHTY LS: predly lt brnsh gy, ~ 5% m gysh brn, crpxl, chty, v hd, sils altn thru, dns, tt, fy lamd

LS: off wh - yelsh wh, crpxl, org resd aa, scat fos frags, occ bracs, plty, mot or intbd chty Ls, rrlly sdy, s tr calc drs, dns, tt

CHTY LS: lt yelsh brn - yelsh gy, crpxl, chty sils altn thru, dns, tt, v hd, brit, intbd foss ls

LS: off wh, lt - m yelsh brn, crpxl, scat fos frags, com org resd on digestion, dns, tt, rrlly sdy, mot or intbd chty sils ls

CHTY LS: lt - m yelsh brn, crpxl, chty, sils altn thru, rock is 90-95% sil, grd - 100% cht, wkly lamd, tr org incl, v hd & brit, dns, tt

CHTY LS: lt - m yelsh brn, crpxl, sils chty altn thru, dns, tt, hd, brit, aa

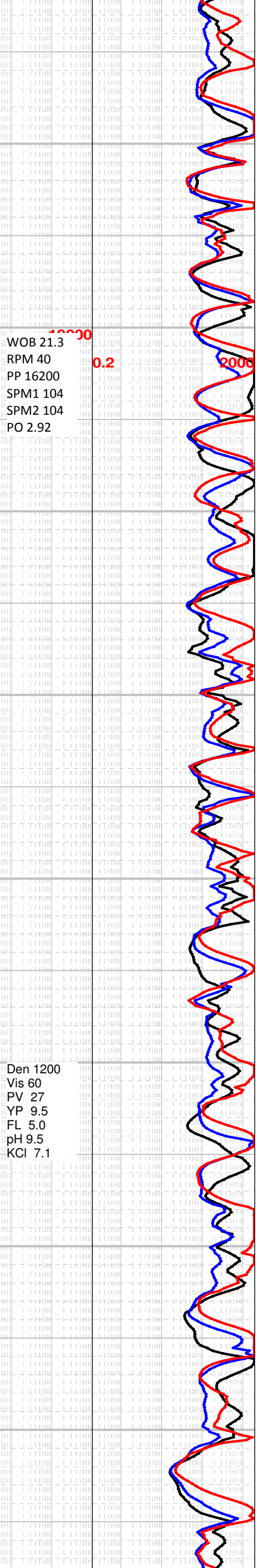
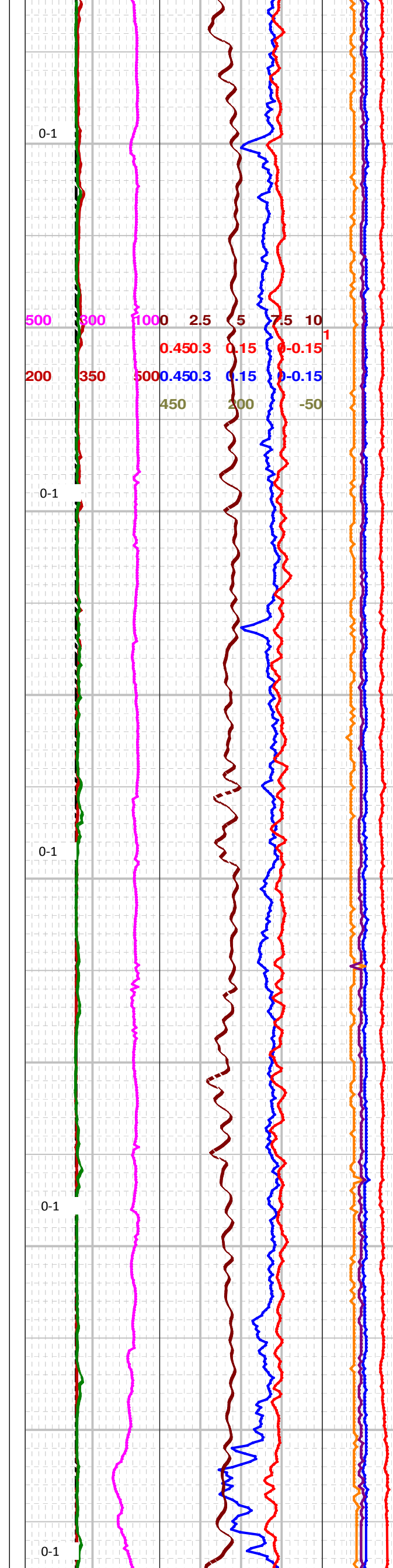
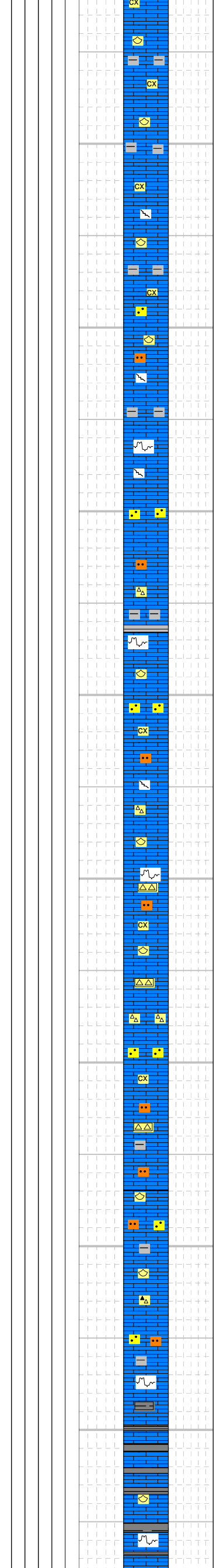
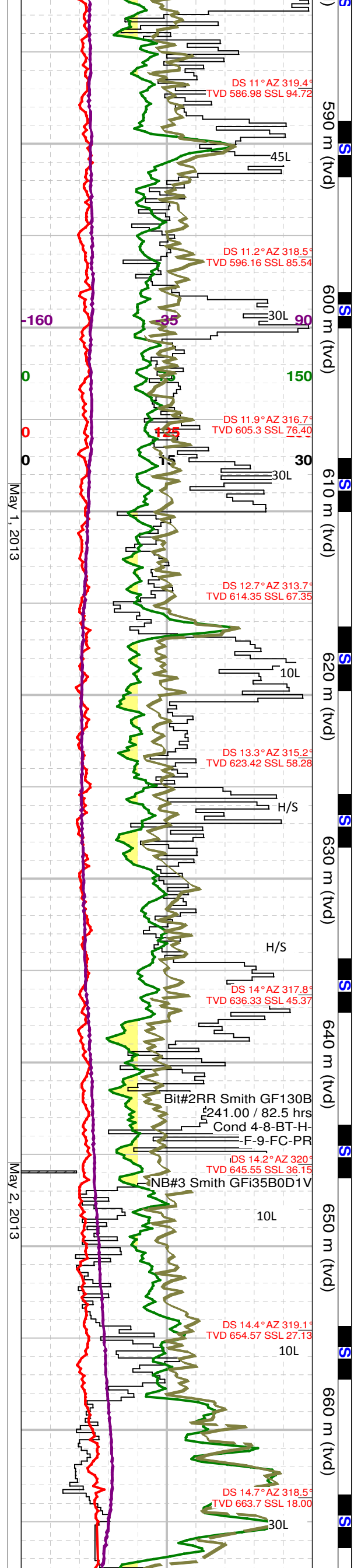
LS: off wh, lt yelsh brn, loclly m - dk gysh brn, crpxl, occ styl or mic styl, loclly / mnr calc drs, intbd or mot chty Ls, dns, tt, scat brac, com - abnt org resd

CHTY LS: lt - m yelsh brn, crpxl, sils chty altn thru, 90-95% sils altn, dns, tt, hd

LS: lt - m yelsh brn - yelsh gy, crpxl, sdy ip, occ brac frags,

CHTY LS: lt - m yelsh brn, crpxl, sils chty altn thru, 90-95% sils altn, dns, tt, hd, mot or intbd / sdy foss Ls

LS: m yelsh brn - yelsh gy, crpxl, chty, arg, inerly sdy



LS: m yelsh brn - yelsh gy, crpxl, sily arg, inclry sdy, rr brac frags, org resd aa, intbd or mot chty Ls aa, rr styl, dns, tt

LS: predly lt - m yelsh brn - yelsh gy, mnr intbd m - dk yelsh brn, arg ip, crpxl, scat bracs, dns, tt, sils ip, org resd

LS: predly lt - m yelsh brn - yelsh gy, m - dk yelsh brn ip, crpxl, sily arg, occ bracs, locly sily sdy, mnr chty Ls aa, dns, tt, rr drsy calc fldd frac / tr pyrbit, chty & sils ip, stly ip

LS: predly m yelsh brn - yelsh gy, mnr lt yelsh brn and intbd dk yelsh brn, arg ip, occ sdy bed, locly slty, rr styl, rr calc fldd frac, locly chty / ptch or mot siln, dns, tt

LS: inclry dk yelsh brn - gysh brn, crpxl, arg ip, inclry chty, 5-10% scat cht, com siln (10-20% sild grs), locly sdy & slty ip, scat bracs, dns, tt, hd

LS: predly m yelsh brn - gysh brn, mnr lt yelsh mnr & dk brn, crpxl, sily arg ip, locly slty - vfg sdy ip, rr brac frags, tr cht, dns, tt, Mdst

LS: predly m - dk brn - gysh brn, mnr lt yelsh brn, crpxl, arg, scat brac frag, occ sh ptg, dns, tt

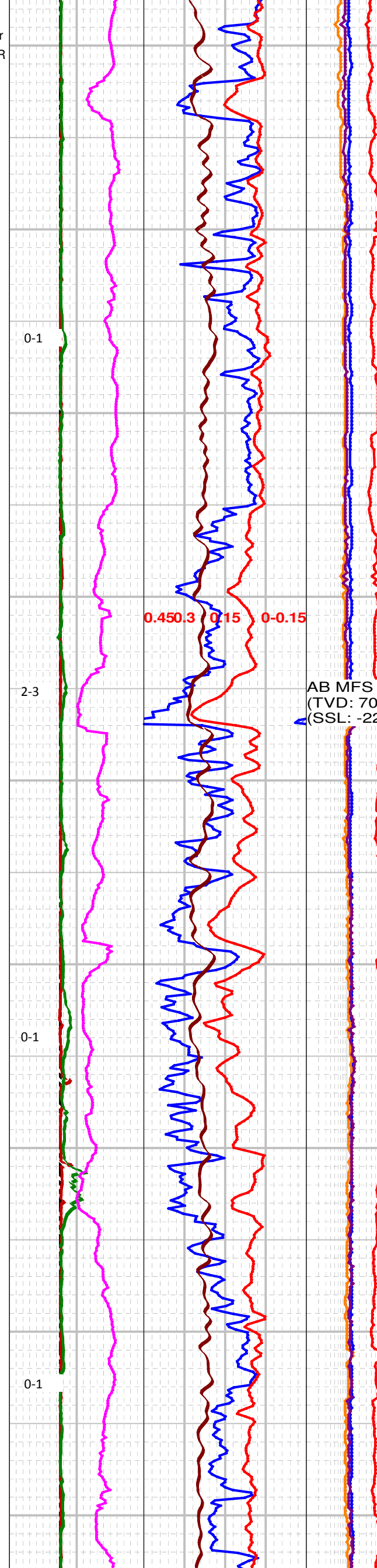
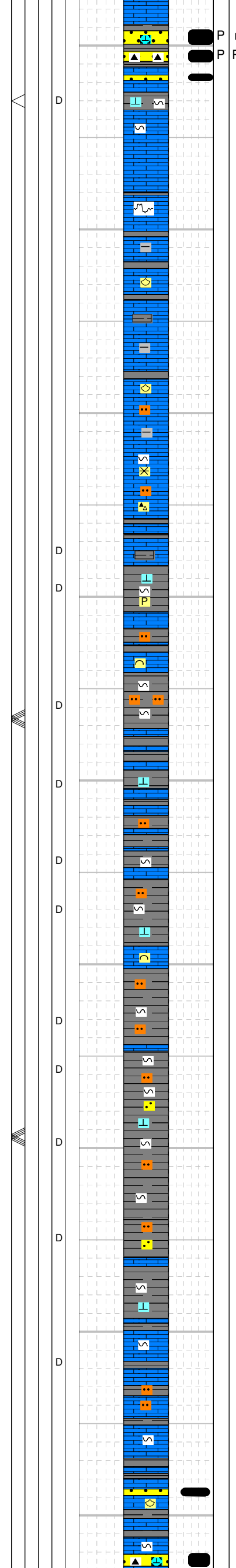
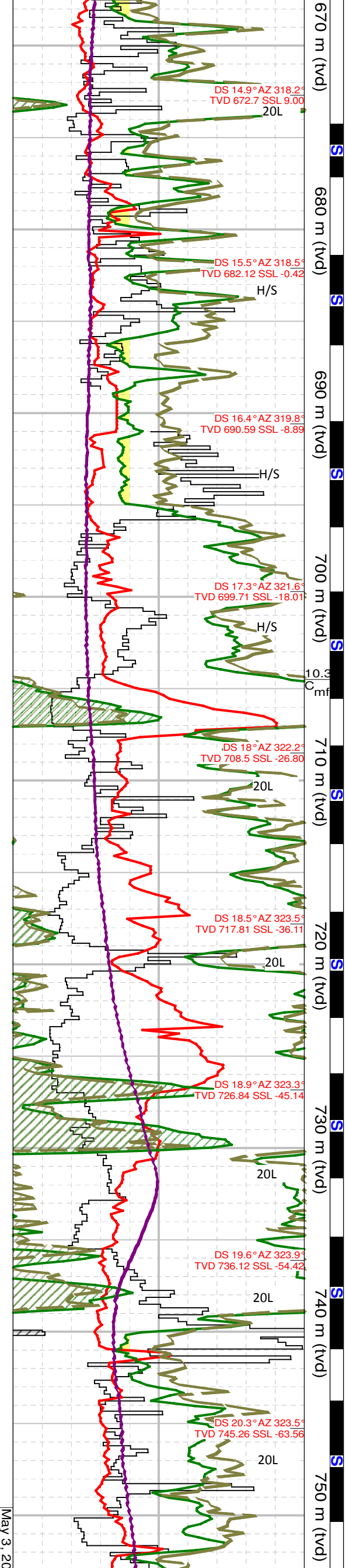
SH: dk gysh brn - blk, blkly, calcs, locly slty

SH: dk gysh brn, nn fis, blkly, slty ip, tr pyr, calcs, grdg to calcs Mdst

LS: dk gysh brn, mnr lt - m yelsh brn, crpxl, arg, locly slty, scat fos frags, dns, tt, Mdst - Wkest

May 1, 2013

May 2, 2013



SS: m gy, predly variously gy - blk cht and mnr qtz, u f - u c gred, sbrdd - rdd, py srt, calc cmt, tt

SH: m - dk brn, blk, blk, slty ip, sly bits, calcs, pets odor, **modly slow dd o blomg cut**

LS: m - dk brn, crpxl, slty & arg ip, blk, bits ip, pets odor, dns, tt, **modly slow blomg dd o cut**

SH: dk gysh brn, sbbly, calcs, slty ip, thn strgs

LS: m - dk brn, lt yelsh brn ip, crpxl, arg ip, locly sdy, slty ip, scat brac frags, rr calc lined frac, rr styl, s tr cht, dns, tt, sly bits

LS: predly m yelsh brn, mnr lt yelsh brn & dk brn, crpxl, arg ip, commly slty, tr calc drs, scat fos, dns, tt

LS: m - dk brn - gysh brn, crpxl, arg ip, slty, chty (5-10% cht), scat fos, rr calc fld micfrac, sly bits

SH: dk brn - blk, blk, calcs, slty, grdg - sltst, bits ip, **mod blomg cut**, s tr pyr

LS: m - dk brn, gysh brn, crpxl, arg & slty, occ brac, dns, tt, sly bits, **mod blomg dd o cut**

SH: v dk brn - blk, slty thru, sbbly, sly - nn calcs, bits, Ls strgs, **mod blomg dd o cut**, hi angle jtg

LS: m - dk gysh brn, crpxl, slty, sdy ip, fragl, occ brac spn, sly bits, rr calc cmt micfrac, tt

SH: dk brn, grdg - blk, sbbly, slty, sdy ip, sly calcs, bits, **pets odor**, **mod blomg cut**, **dd o**

LS: dk brn, crpxl, arg & slty ip, bits ip, dns, tt, thn beds

SH: v dk brn - blk, sbbly, slty thru, sdy ip, calcs ip, bits, s tr pyr, **pets odor**, **mod blomg dd o cut**, Ls strgs

LS: m - dk brn, crpxl, sly arg, rr fos brac, thn beds, sly bits, dns, tt, **slow blomg cut**

SH: 30% m gy - gnsh gy, sbfis, sly calcs, slty ip, v low toc, 60% mot & intbd high toc dk brn - blk sh, sbbly, sly calcs, bits, slty, vfg sdy ip, **mod slow blomg dd o cut**

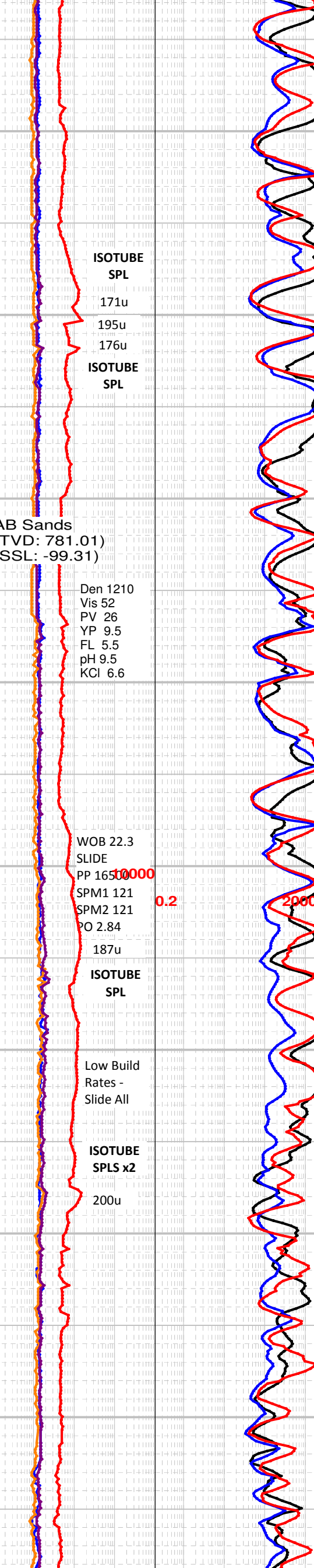
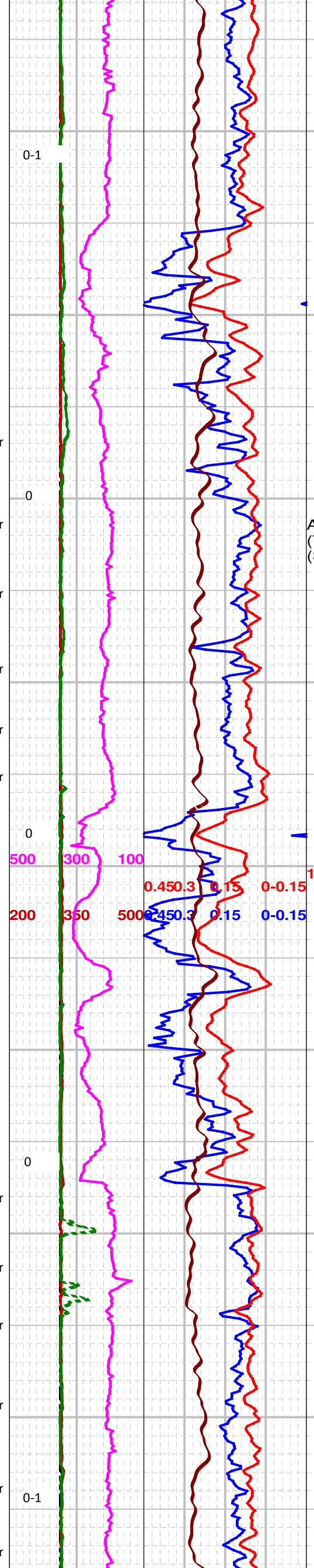
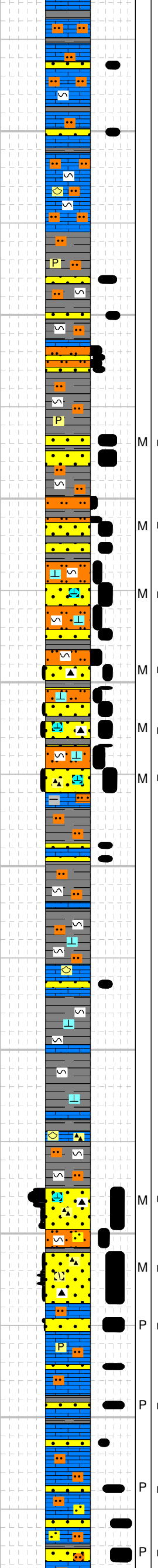
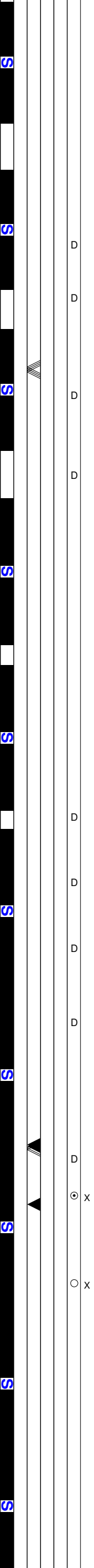
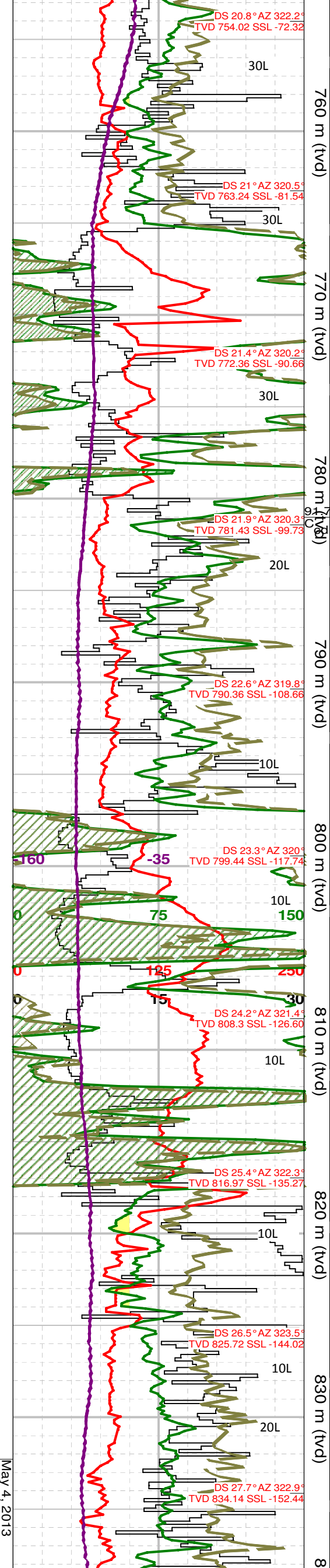
LS: m - dk yelsh brn, ptch lt yelsh brn, crpxl, slty ip, sly bits, dns, tt

SH: 10% m gy, sbfis - sbbly, sly calcs, tr fy dism pyr, micmica ip, v low toc, aa; 30% dk brn - blk, sbbly, slty - sdy, **bits**, **pets odor**, **slow blomg cut**

SH: predly dk brn, 3-5% m gy, nn fis, slty thru, sly calcs, **bits ip**, **mod slow blomg dd o cut**, **strong "swampy" odor (mercaptan)**

SS: m - dk gy, brnsh gy, vc - c gred, sbrdd - rdd, py srt, calc cmt, tt

LS: dk gysh brn, crpxl, arg & slty thru, rthy, plty, sly bits, dns, tt



SS: m gy, predly various gy & lt brn cht, mnr qtz, u f - c gred, sbrdd, ply srt, calc cmt, tt

LS: dk gysh brn, crpxl, rthy, slty & arg, scat bracs, dns, tt, bits, slow blomg cut

SS: lt - m gy, brnsh gy, qtz & gy & brn cht, l f - u m gred, sbrdd, mod - py srt, calc cmt, tt

SLTY LS: m - dk gysh brn, crpxl, rthy, slty thru, sdy ip, occ ss ptgs, scat bracs, arg, silly bits, dns, tt, no flor, wk slow dd cut

SH: dk brn - blk, sbfis - sbbkly, slty thru, silly calcs, bits, nn vis flor, mod blomg dd o cut, hvy resd, occ sdy ptg, occ Ls strg

SLTST: m brn - gysh brn, sdy, calcs, bits ip, tt, slow dd o cut

SS: m brnsh gy, qtz & cht, vf - l m gred, sbrdd, mod srtg, calc cmt, silly bit, v wk ptch intgran por (2-3%), slow stmg dd o cut

SH: dk brn - blk, sbbkly, slty, silly calcs, bits, slow dd o cut

SLTST: m - dk brn, sdy ip, calcs, bits

SH: m - dk brn, locly v dk brn - blk, sbbkly, slty, silly calcs, bits ip

SS: lt - m gy - brnsh gy, qtz & subordinate gy cht, predly u vf - u f gred, 3-5% l m gred, sbrdd, mod srtg, calc cmt, ptch hydc stg, modly w ind, tt - vp ptch wk por (<5%), tr wk stmg dd o cut

LS: m - dk gysh brn, mnr lt - m yelsh brn, crpxl, slty & arg, rthy, silly bits, dns, tt

SH: dk brn - blk, sbfis - sbbkly, slty, calcs, bits thru, hi toc, no vis flor, mod slow blomg dd o cut, sdy strgs, slty Ls ptgs, tr pyr

SS: lt - m gy, brnsh gy, predly qtz / com gy cht, vf - f gred, sbrdd, modly srt, calc cmt, w ind, tt, tr bit, thn strgs

SH: dk brn - blk, sbbkly, slty, bits, hi toc, silly calcs, slow mod blomg dd o cut, occ sdy strg, occ thn Ls ptg

LS: m - dk gysh brn, mnr lt - m yelsh brn, crpxl, slty & arg, rthy, silly bits, dns, tt, tr cht, rr brac frag

SH: dk brn - blk, sbbkly, slty, calcs, bits, aa

SS: m gy, predly m - dk gy & mnr lt brn cht, mnr qtz, predly u f - u m gred, 3 - 5% l c gred, sbrdd, mod srtg, calc cmt, predly tt, locly / 10-12% intgran por, tr - mnr brn intstl hydc stng, tr spy dull yel flor, slow stmg cut, p - q shw

SLTY LS: m gysh brn, crpxl, comly slty, grd - calcs sltst, flotg sd cls - l c gred, dns, tt, hd, tr hydc stng

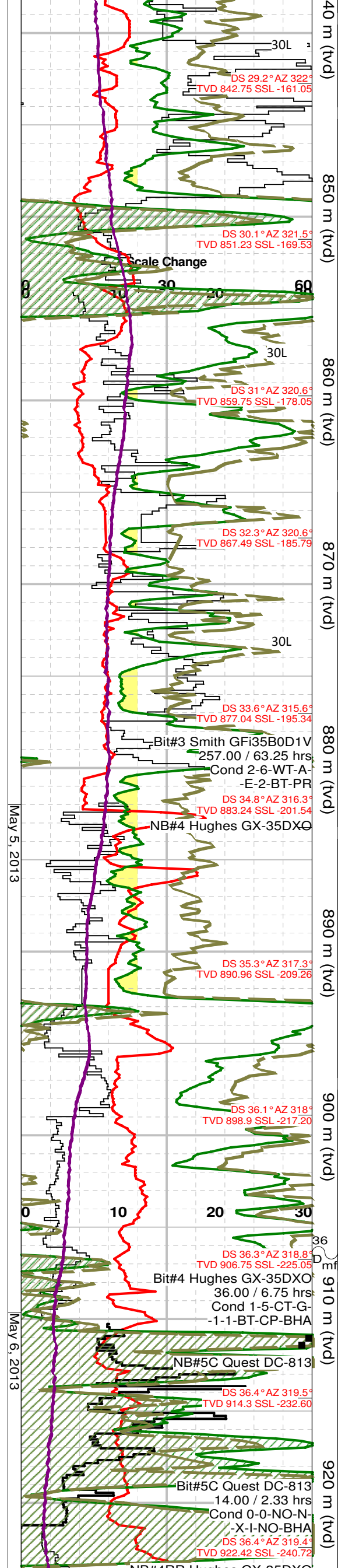
SS: m brnsh gy, gy cht, mnr lt brn cht & qtz, vf - l c gred, sbrdd, py srt, calc cmt, mod - w ind, hd, mnr intstl m - dk brn hydc stng, tt - p por (0-5%), spy dull flor, wk stmg cut, q shw

SH: dk gysh brn - blk, sbbkly, slty, bits, s tr pyr

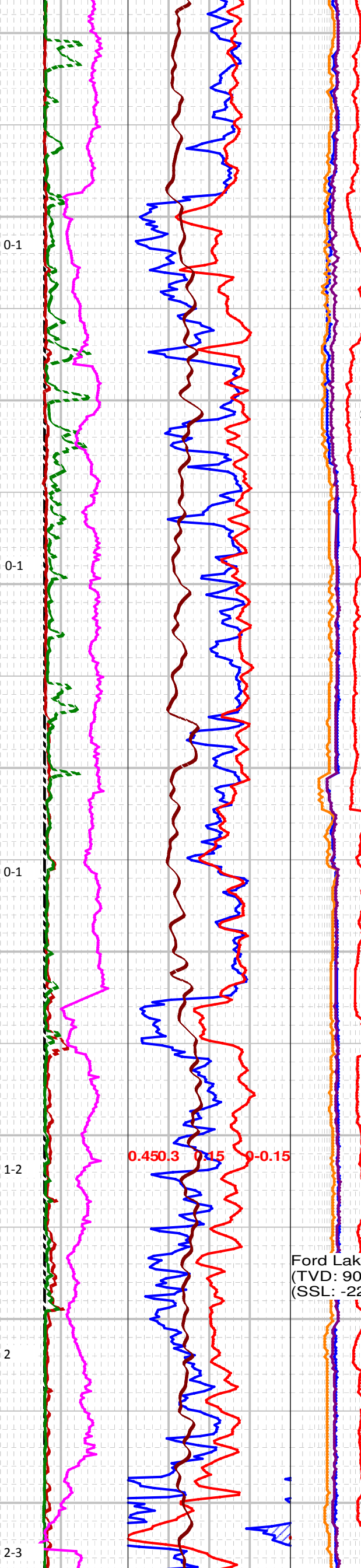
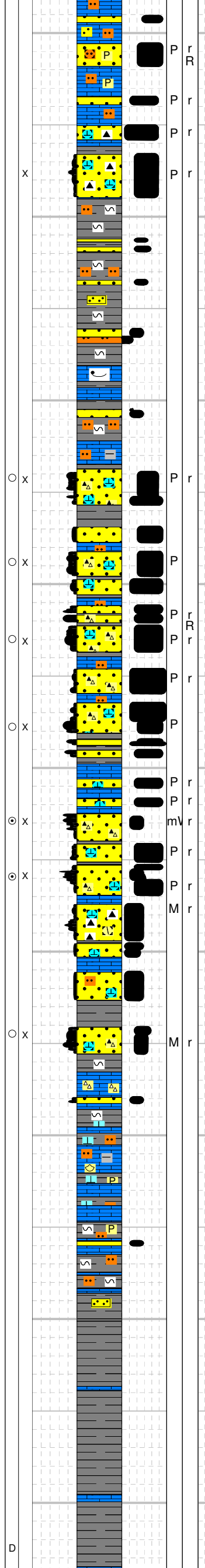
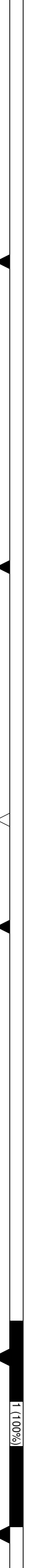
SS: lt - m brnsh gy, predly vfg, c gred strg in 855 spl, sbrdd, modly srt, calc cmt, tt, thn strgs

LS: m - dk gysh brn, crpxl, comly slty, occ sdy lam, dns, tt, hd, tr fy dism pyr

SS: lt - m gy - brnsh gy, abnt gy cht thru, com qtz,



40 m (tvd) 850 m (tvd) 860 m (tvd) 870 m (tvd) 880 m (tvd) 890 m (tvd) 900 m (tvd) 910 m (tvd) 920 m (tvd)



Den 1220
Vis 61
PV 27
YP 11.0
FL 5.0
pH 9.5
KCl 7.1

SLIDE ALL

ISOTUBE
SPL
158u

Den 1220
Vis 63
PV 28
YP 10.5
FL 5.0
pH 9.5
KCl 7.2

Ford Lake MFS
(TVD: 906.40)
(SSL: -224.70)

ISOTUBE
SPLS X2
Den 1210
Vis 62
PV 29
YP 9.0
FL 5.0
pH 9.5
KCl 7.0

ISOTUBE

mnr brn cht, u f - l vc gred cls in vf - f gred slty calcs
mtx, sbrdd - rdd, py srt, calc cmt, **spy brn intstl**
hydc stng in wk intgran por, predly tt (0-5%), **tr wk cut, no shw**

SLTY LS: m - dk gysh brn, crpxl, incrly slty & arg, grdg - calcs sltst, sdy, vf - m gred cls com, dns, tt, hd, sdy ptgs, occ slty sh lams

SH: dk brn - blk, sbblky, slty, sily bits, thn lams, sily calcs

SS: m yelsh brn, ptch lt gy, 10-12% m - c gred cls flotg in vf - f gred calcs slty & arg mtx, mtx grds - sdy arg Ls, calc cmt, w ind, tt, sily bits

SH: dk brn - blk, sbfis - nn fis, slty ip, bits, sily calcs

SH: m - dk brn, blk, sbfis - nn fis, slty - vfg sdy thru, com sdy lams, occ flotg c gred cht cls, mod blomg dd o cut

SS: m brn, lt gysh brn ip, vf - u f gred, slty ip, predly qtz / mnr gy cht, sbang - sbrdd, mod - p strg, calc cmt, **bits, spy dull flor, wk blomg dd o cut**, s tr fy dism pyr

SH: dk brn - blk, sbfis, slty, bits, sily calcs

LS: m - dk brnsh gy, lt yelsh brn ip, crpxl, slty & arg ip, scat shl frags, dns, tt

SS: m gy - brnsh gy, predly gy & mnr brn cht, mnr qtz, vc gred, grdg - grnls or s pbls, locly / calc cmt, locly / vf - f gred calcs mtx, sbrdd, py srt, predly tt, tr amb brn hydc stng / v wk por (<6%), **sp dull flor, wk stmg cut, no shw**

LS: m - dk brn, locly lt yelsh brn, crpxl, slty & arg, sdy ip, dns, tt, hd

SS: m gy, gysh brn, predly variously gy and brn cht, mnr op qtz, m - c gred, occ pbls or grnls, vf - f gred mtx, sbrdd, occ w rdd pold cls, py srt, calc cmt, tt - locly fr intgran por (0-8%), com m amb hydc stng, **spy flor, wk - mod stmg cut, q shw**, occ sdy Ls ptgs

SH: dk brn - dk gysh brn, sbfis - sbblky, calcs, bits

LS: lt - m yelsh brn, gysh brn ip, crpxl, arg, slty, locly sdy, rr shl frags

SS: m gy - brnsh gy, predly variously gy cht, com qtz, mnr brn cht, u f - v c gred, calc cmt, locly / vf - f gred mtx, sbrdd, py srt, predly tt, **ptch wk por (6-8%) / lt amb hydc stng, spy dull yel flor, fr blomg & stmg cut, wk shw**

SS: 30% lt - m gy, abnt gy - blk cht, mnr brn cht, com qtz, l f - l vc gred, sbrdd, py srt, calc cmt, tt - locly wk por / mnr bit cmt; 30% lt - m brn, qtz & com gy - blk cht, u f - u f gred, sbrdd, modly w srt, calc cmt, **mnr bit cmt, lt amb hydc stng thru, p - fr intgran por (6-10%), spy yel flor, fr blomg & stmg cut**; 20% m gy - brnsh gy, vf - f gred, slty ip, sbrdd, py srt, calc cmt, tt - v wk por, **tr bit, spy hydc stng, wk stme cut**

SS: lt - m brnsh gy, qtz & com gy cht, vf - u m gred, sbrdd, mod - py srt, calc cmt, vp intgran por (2-7%), tr - locly mnr bit cmt, **ptch dull yel flor, fr blomg & stmg cut, p - q shw**

CHTY LS: yelsh wh, lt - m yelsh brn, m brnsh gy ip, crpxl, chty, 5-7% lt yelsh brn cht thru, locly slty - vfg sdy ip. rr brac frag. dns. tt

SH: dk gysh brn - blk, blk - sbblky, calcs, slty, **bits, fr slow blomg dd o cut**, tr fy dism pyr

LS: lt yelsh brn, m - dk gysh brn, crpxl, incrly arg & slty, rthy lstr, dns, tt, occ sdy strgs, occ brac frags, tr pyr

LS: lt - dk brn, lt - m gy ip, crpxl, comly slty & arg / rthy lstr & brac rmn aa, locly gly & cln / occ cht nod, occ sdy strg

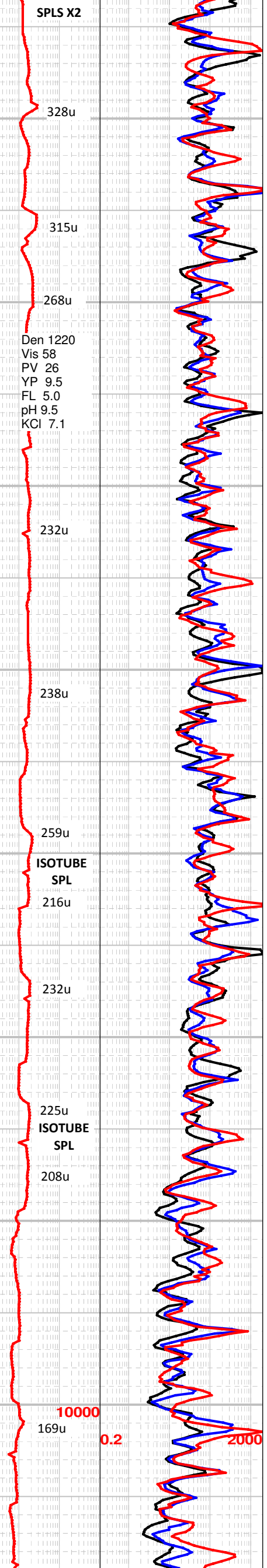
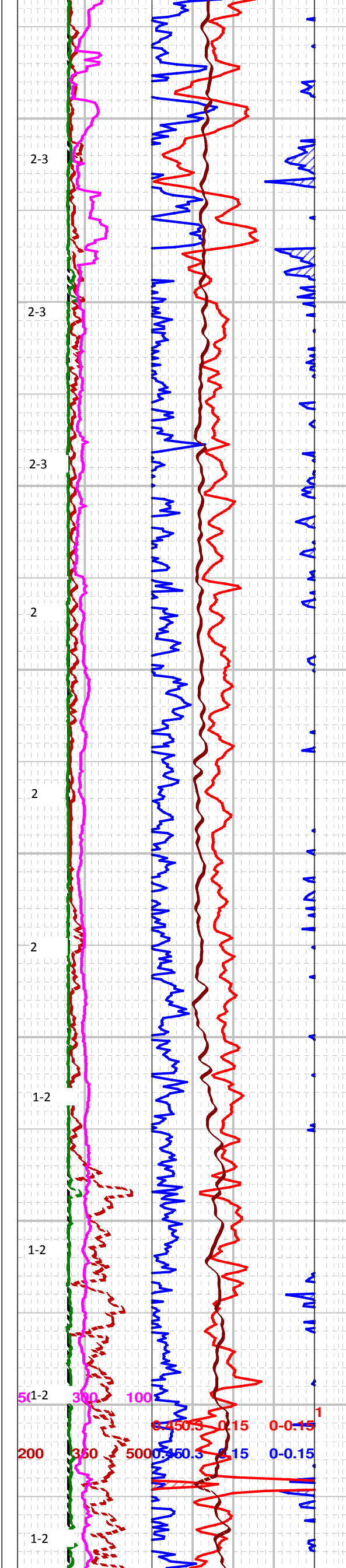
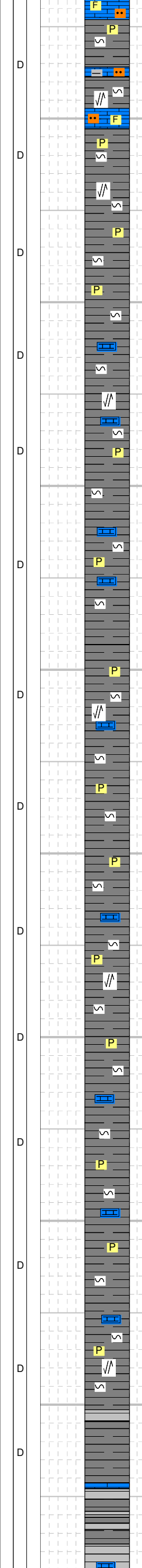
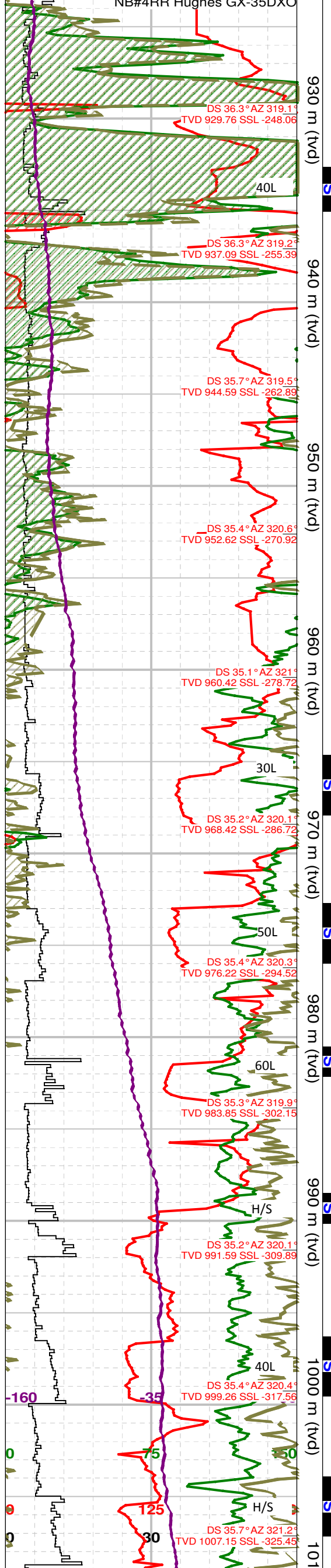
SH: blk, dk brn, sbfis - sbblky, incrly bits, calcs, modly frm, modly brit, strong odor, **v hi toc**, no flor, **slow hazy dd o cut**, rr calc cmt micfrac

Cut Core #1: 942.0-955.9mMD

SH: v dk brn - blk, sbblky, slty ip, bits, v sily - nn

May 5, 2013

May 6, 2013



occ sks, hi angle jtg

LS: m - dk brn - gysh brn, crpxl, rthy, slty ip, thn beds, tt, **bits**, **slow blomg cut**, rr fos frags

SH: predly blk, v dk brn ip, sbblky, nn - slty calcs, **bits**, **strong odor**, **slow blomg dd o cut**, frm, modly brit, occ - locly com sks, hi angle jts

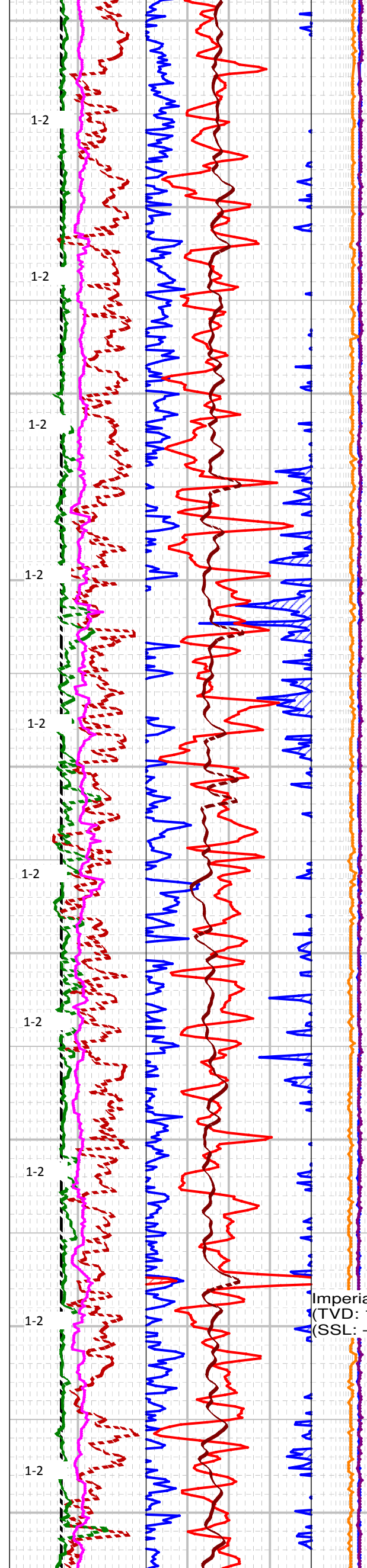
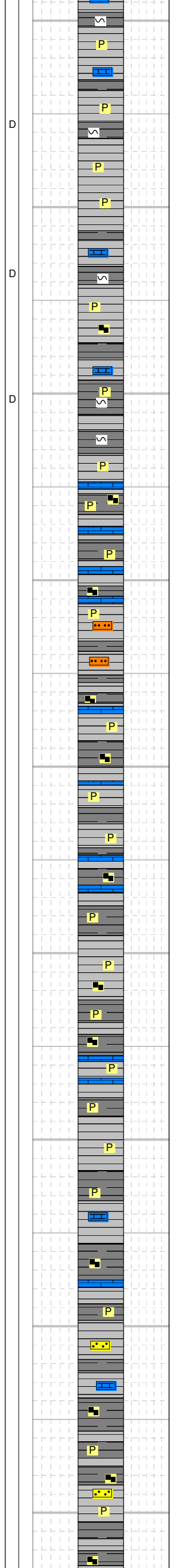
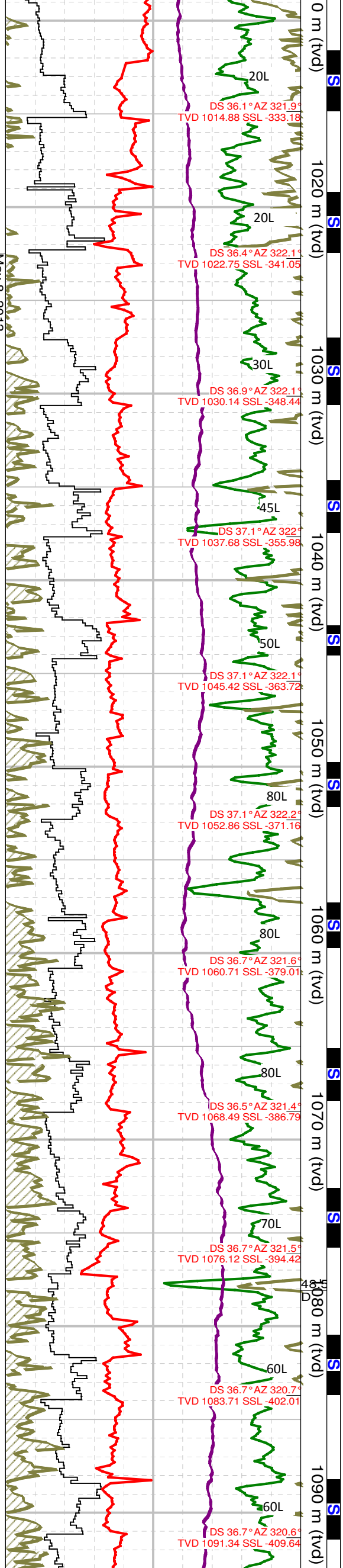
SH: blk, v dk brn, sbfis - sbblky, nn calcs, slty ip, **bits**, **slow blomg dd o cut**, occ calcs strg, com sks, frm, modly brit

SH: blk, v dk brn, sbfis, nn calcs, occ calcs strg, occ calcs mic incls, tr fy dism pyr, rr s pyr nods, **b its**, **slow blomg dd o cut**, occ sks, modly brit

SH: v dk gy - blk, dk gysh brn ip, sbfis - sbblky, predly nn calcs, occ calcs strgs, rr dk gysh brn Ls strgs, **bits**, **slow blomg dd o cut**, occ sks, wk hi angle jtg

SH: v dk gy - blk, dk gysh brn ip, sbfis - sbblky, predly nn calcs, occ calcs strgs, rr dk gysh brn Ls strgs, **bits**, **slow blomg dd o cut**, occ sks, wk hi angle jtg

May 8, 2013



WOB 18.1
 RPM 37-39
 PP 18850
 SPM1 117
 SPM2 122
 PO 2.79

Den 1220
 Vis 58
 PV 27
 YP 9.0
 FL 5.0
 pH 9.5
 KCl 7.2

WOB 18.1
 RPM 35-36
 PP 20950
 SPM1 120
 SPM2 119
 PO 2.80

Reduce PO
 to 2.65

Imperial
 (TVD: 1078.08)
 (SSL: -396.38)

SH: v dk gysh brn, decrg blk, sbfis, nn calcs, occ dk calcs or Ls strgs, decrg bits cont, slow wk dd o cut, rr sks, wk hi angle jtg, mnrfy dism pyr, occ pyric lam

SH: v dk brnsh gy, locly grdg - blk, sbfis, occ dk gysh brn arg Ls strg, com fy dism micxl pyr, occ pyric lam, nn calcs, modly hi toc, no vis sks, wk hi angle jtg, modly frm

SH: v dk brnsh gy, grdg - blk, sbfis, nn calcs, pyric, com fy dism micxl pyr thru, occ dk gysh brn Ls strg, rr slty strg, modly frm, bcmg modly fragile in wtr, carb, modly hi toc

SH: v dk gy, locly grdg - blk, sbfis, nn calcs, pyric, occ yelsh brn hd brit sils lams or concs, rr pyr nod, modly frm, no vis sks, wk hi angle jtg, modly frm, bcmg somewhat fragile in wtr

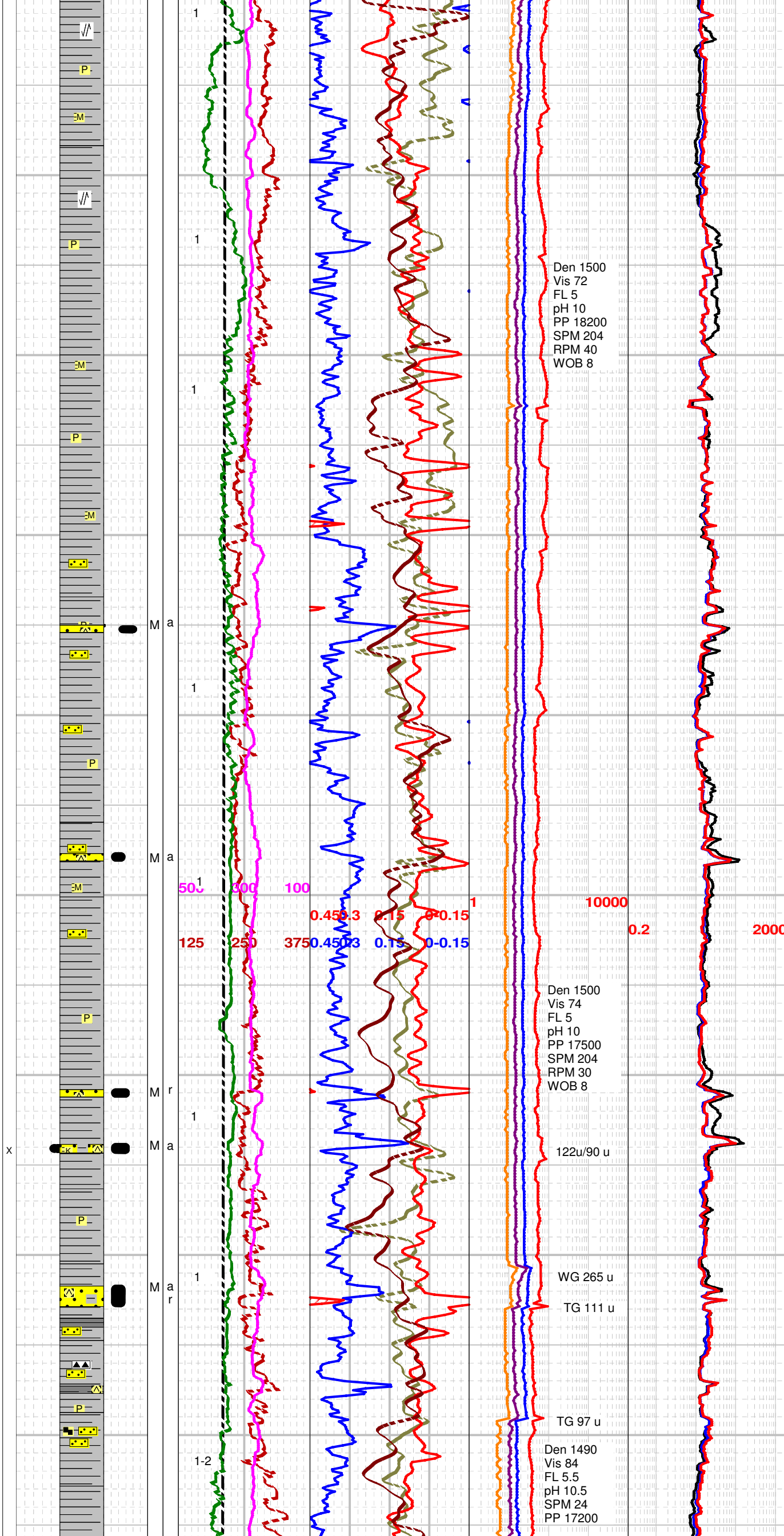
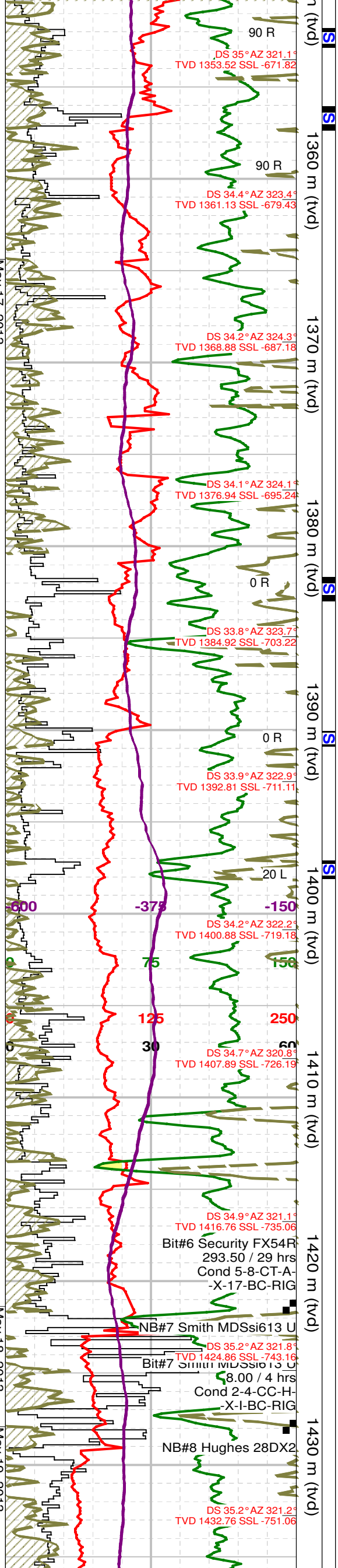
SH: v dk gy, grdg - blk, nn calcs, occ m - dk yelsh brn hd sils strgs, rr pyr nod, modly frm, carb, mod toc

SH: v dk gy, grdg - blk, dk brnsh gy ip, sbfis, nn calcs, occ lt yelsh wh Ls strg, rr m brn sils strg, occ py srt sdy strgs, vf - l m gred, Qtz / mnrf - com gy cht, calc cmt, tr pyr cmt, tt

May 17, 2013

May 18, 2013

May 19, 2013



SH: m - dk brn gy, m gy, pty - sbblky, micmica, tr dism & mas pyr, as cly sh, comly sft & fis, slyly carb, tr ironstone, rr slickensides.

SH: m gy, m - dk gy brn, pty - sbblky, micmica, as cly sh, sft - m hd, comly fis, occ frags / v f pyr lam, tr ironstone, rr shear features, occ frags crack in wtr.

SH: m gy, m - dk brn gy, sb pty, micmica, as cly sh, sft - m hd, comly fis, occ frags swell or crack in wtr, occ pyr lam., rr slickensides.

SH: m - dk gy, m - dk gy brn, sb pty - occlly blkly, micmica, occ frags / pyr lam, as cly sh, occ frags crack or swell in wtr, sft - m hd, comly fis, rr shear structures, tr ironstone.

SH: m - dk brn gy, m gy, pty - sbblky, micmica, as cly sh, occ pyr lam, frags occlly crack or swell in wtr, difficult to wash, rr slickenside surfaces.

SH: m - dk gy brn, m - dk gy, pty - sbblky, micmica, predly as cly sh, occ frags swell or crack in wtr, sft - occlly m hd, comly fis, occ irregular pyr lam, occ mas pyr, no really obvious shear features.

SH: m - dk gy, m - dk gy brn, pty - sb pty, occlly blkly, as cly sh, sft - m hd, comly fis, slyly pyric, occ frags swell or crack in wtr, non calcs, slyly pyric.

SH: m - dk gy, m - dk gy brn, pty - sbblky, micmica, as cly sh, occ frags swell or crack in wtr, slyly pyric, sft - m hd, comly fis, rr slickensides, tr off wh, f gred, arg, qtzs - s&p ss frags.

SH: m - dk gy, m - dk gy brn, pty - sbblky, occlly blkly, micmica, predly as cly sh, occ sdy or slty frags or frags which swell or crack in wtr, slyly pyric, sft - m hd, comly fis, rr slickensides, 3% off wh, lt gy, f gred, locally l m gred, p - modly srt, arg, qtzs - s&p, tt ss frags.

SH: m - dk gy, m - dk gy brn, blk, pty - sbblky, micmica, predly as cly sh, occ sdy or slty frags or frags which swell or crack in wtr, slyly pyric, sft - m hd, comly fis, tr off wh, lt gy, f gred, locally l m gred, p - modly srt, arg, qtzs - s&p, tt ss frags.

SH: m - dk brn, m - dk gy, pty - blkly, micmica, as cly sh, occ frags swell or crack in wtr, slyly carb, tr dism v f pyr, pyr lam or mas pyr, sft - hd, comly fis, rr shear structures.

SH: m - dk gy, pty - sbblky, micmica, as cly sh, 5% of frags slty & sdy, tr dism & mas pyr, occ frags swell or crack in wtr, tr ironstone frags, rr v f pyr lam, tr lt gy, wh, cons, slty - v f u gred, tt ss frags as stringers.

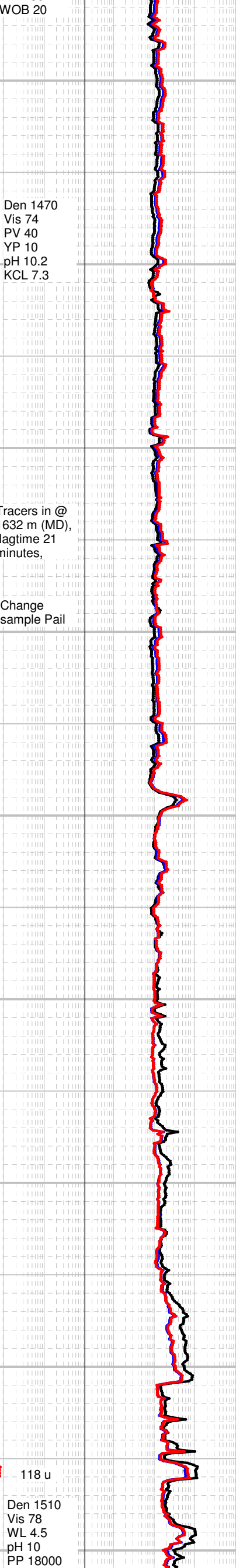
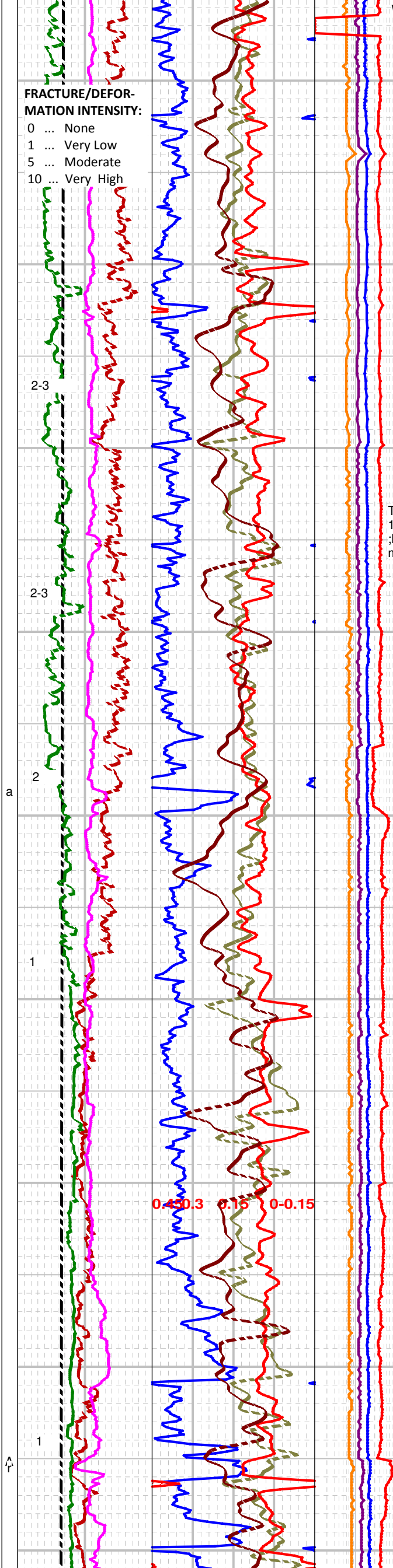
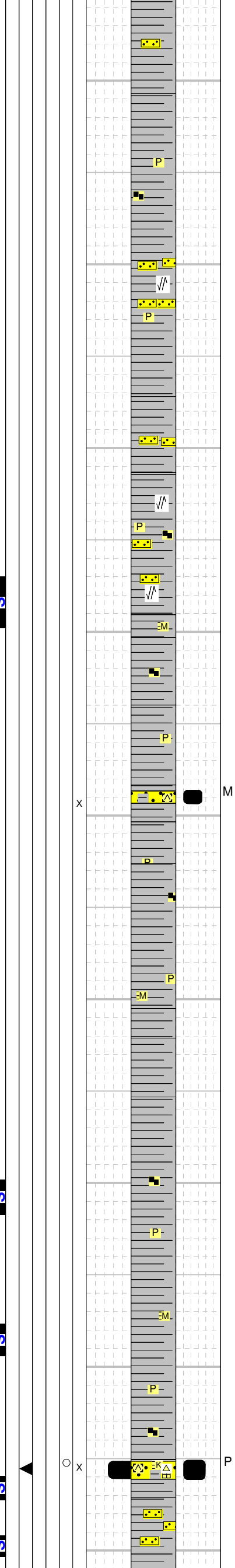
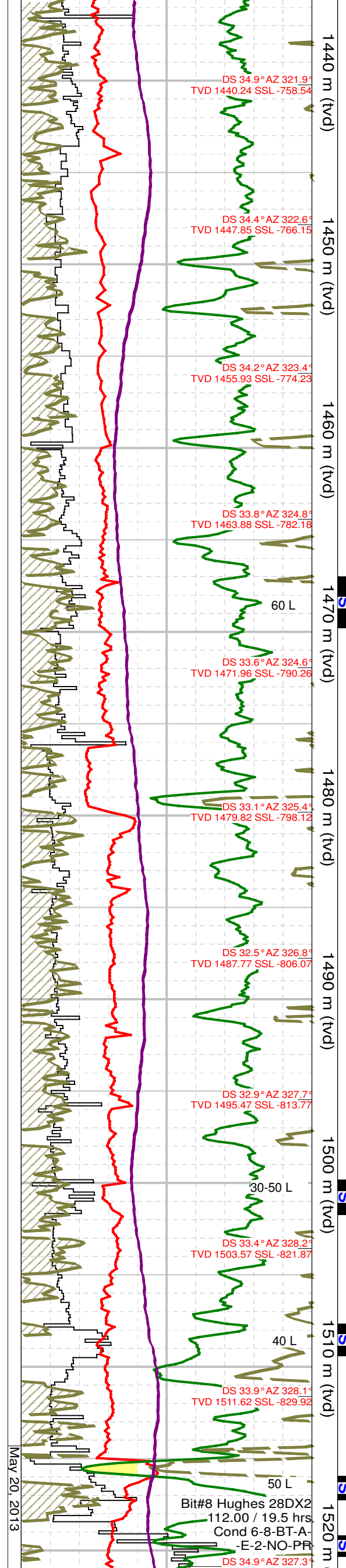
SH: m - dk brn gy, m - dk gy, sb pty - sbblky, micmica, as cly sh, occ frags crack or swell in wtr, sft - m hd, comly fis, rr shear structures.

SS: off wh, lt gy, lt gy brn, lt brn, cons, s&p, / < 10-15% dk cht grs, f gred, slty ip, p - modly srt, sbang - sbrdd, sils, tr calc, arg, patchy lt brn, occ wh kao mtz, pyric, no vis intgran por, 6% kao mtz por, no cut flor.

SH: m - dk brn comly sft - m hd, sb fis - fis, comly m - dk gy or blk, pty - blkly, micmica, carb, comly firm, brit, sils ip, slyly pyric, 3% f gred, lt gy, sils, sbang - sbrdd, modly - w srt, sils, tt, s&p ss frags.

SS: lt gy, off wh, lt brn, f gred, occ frags / floating m - v c l qtz & cht grs, rr granules, cglic ip, p - modly srt, sbang - sbrdd, sils & / sil overgrowths, slyly pyric, spotty wh or m brn arg cmt, / < 20-30% cht grs, p gr relief, slyly calcs or dolc, tt, no shows.

SH: m - dk brn, sb pty - comly blkly, comly firm, brit, occlly sb fis - fis, micmica, as cly sh, rr slty & sdy



frags, pyric, occ frags / lense shaped pyr, tr ironstone, 3-7% off wh, lt gy, f gred, locally / floating m - c qtz or cht grs, sils, pyric, occly arg, tt, s&p ss frags.

SH: m - dk gy, occly blkly, sb plty - comly blkly, sft - firm, fis ip, predly as cly sh, occ frags slty & sdy, occ frags crack or swell in wtr, micmica, greasy, 2% f gred, sils, hd, cons, tt, ss frags.

SH: m - dk gy, blk, micmica, sb plty - blkly, comly cracking or swelling in wtr, pyric, as cly sh, occ slt or sdy frags, sly carb, comly sft & fis in wtr.

SH: m brn gy, m gy, dk brn gy, comly v sft & fis in wtr, comly cracks & swell in wtr, as cly sh, rr slickenside surfaces, micmica, greasy ip, tr m brn ironstone frags & lt gy, predly f gred, s&p, sils, ss frags.

SH: dk gy - blkly, plty - blkly, micmica, comly hd & brit, 60% of frags lt brn gy, comly bit-ground or swelled, fri, v sft, fis ip, pyric, non clacs.

SH: m - dk gy, blk, plty - blkly, micmica, occly greasy, as cly sh, comly sft & sb fis - fis, occly hd & brit, comly cracking or swelling in wtr, pyric, scat slickensides.

SH: m - dk gy, blk, plty - blkly, micmica, occly greasy, as cly sh, comly sft & sb fis - fis, occly hd & brit, comly cracking or swelling in wtr, pyric, tr f gred, sils, tt ss stringers.

SH: m - dk gy, micmica, occly greasy, as cly sh, occ pyr lam, occ slickensides, rr deformed pyr inclusions, tr m brn ironstone frags, sft - hd, sb fis - brit.

SH: m - dk brn gy, m - dk gy, blk, micmica, rr greasy frags, occ frags swell or crack in wtr, occ slickenside surfaces, tr m brn crpxl ironstone frags, comly sft - occly firm in wtr, sb fis - fis, occly brit.

SH: m - dk gy, blk, plty - sbbkly, occly blkly, micmica, occ greasy frags, as cly sh, comly swelling or cracking in wtr, rr pyr, occ slickensides.

SS: off wh, v lt brn, f gred, rr frags / floating l m grs, qtzs, sbang - sbrdd, sils, / < 15% cht grs, comly / lt gy or off wh arg cmt, rr carb grs, tt, v p gr relief, no shows.

SH: m - dk gy, grd to blk, micmica, rags crack or swell in wtr, tr dim & mas pyr, 7% off wh, f gred, tt, sils, predly qtzs, arg, sly pyric. tt ss frags.

SH: m - dk gy, grd to blk, m - dk brn, plty - blkly, micmica, frags comly swelling or cracking in wtr, tr dim & mas pyr, rr slickensides.

SH: dk gy - blk, plty - sb plty, rrbkly frags, micmica, sly pyric, carb, comly firm & brit, rr slickensides, rr lt gy, slty - f u gred, cons, tt, sils, ss stringers or partings.

SH: m - dk gy, grd to blk, dk gy brn, plty - sbbkly, micmica, as cly sh, sft - occly hd & fis in wtr, sly swelling or cracking in wtr, pyric, rr shear structures.

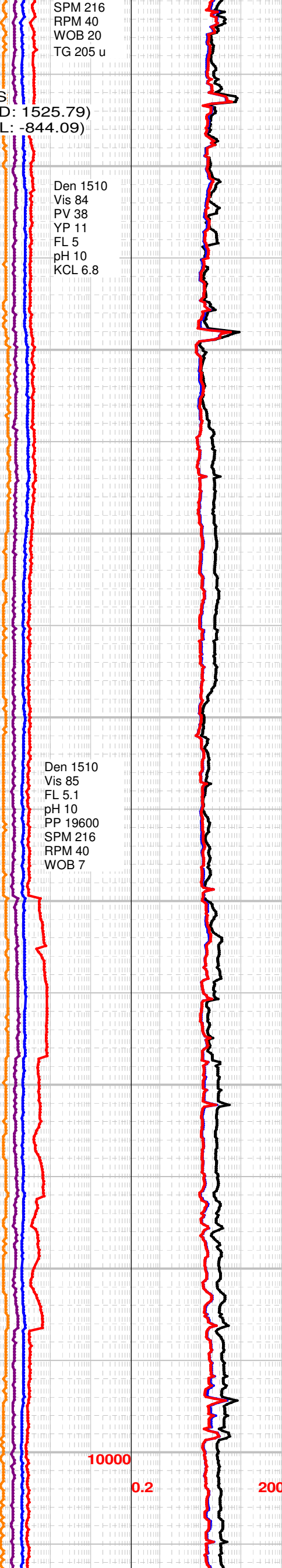
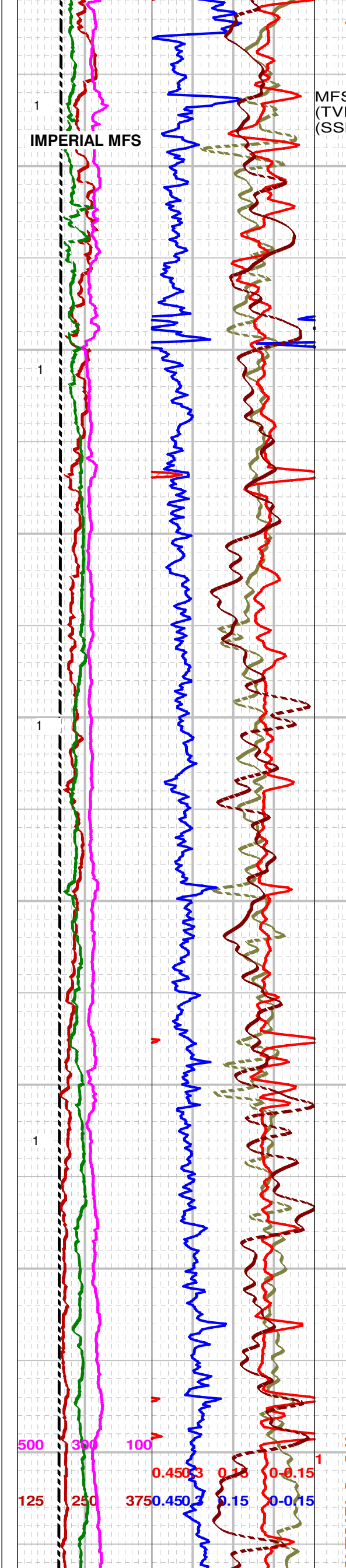
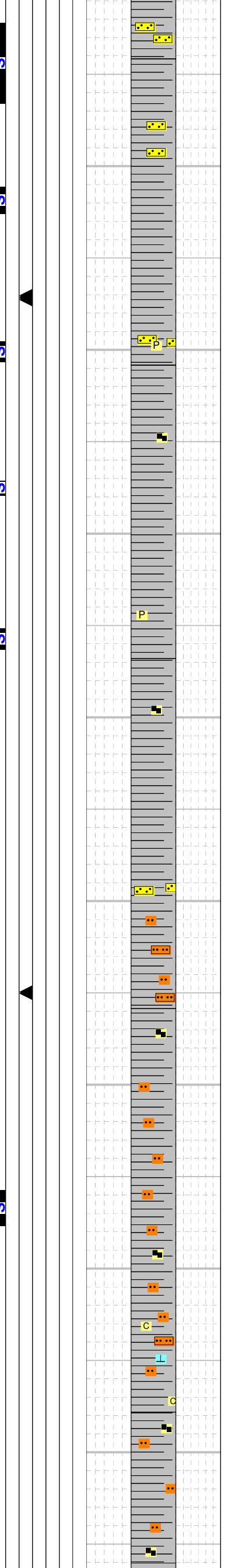
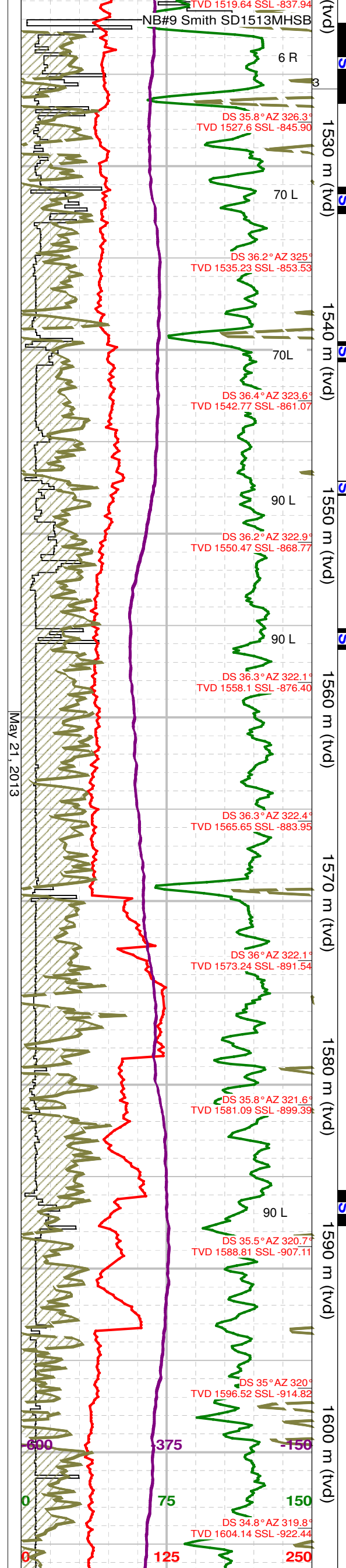
SH: m - dk gy, occly blkly, plty - sbbkly, micmica, as cly sh, comly sft, fis, comly cracking or swelling in wtr, rr hd & brit frags, tr pyr, rr shear structures.

SH: m - dk gy, blk, plty - blkly, micmica, rr greasy frags, comly sft & fis, occ hd & brit frags, as cly sh, frags comly cracking or swelling in wtr, rr slickenside surfaces, tr m brn ironstone frags & rr qtzs, lt gy, v f sils sltst frags.

SH: m - dk gy, grd to blk, micmica, rr greasy frags, sb plty - sbbkly, micmica, sft - hd, fis - brit, abnt bit-ground lt m brn cly in spl.

SH: m - dk gy, blk, sb plty - blkly, micmica, sly pyr, sft - hd, fis - brit, comly cracking or swelling in wtr, rr slickensides.

SS: cons, qtzs - s&p, lt gy, lt gy brn, m brn, f - occly u m gred, rr frags / floating c lt & dk cht grs, ang - sbrdd, predly / < 25% cht grs, m gred frags / < 30% cht grs, spotty calcs cmt, comly sils & / sil overgrowths, / off wh, gy brn arg mtz, rr frags / 1-9% blk dd bit plugged intgran por, p - g gr relief, traces of 1-5% vis intgran por, slow, p, faint yel



gn stmg cut fior.

SH: m - dl gy, m - dk gy brn, plty - blk, micmica, as cly sh, as cly sh, rr slty or sdy frags, frags comly crack or swell in wtr, carb, sft - hd, fis - brit, tr dism & mas pyr, rr slickensides, tr gy, wh, f gred, sbang - sbrdd, sils, arg, tt qtzs - s&p ss frags.

SH: m - dk gy, occlly blk, plty - sbbkly, micmica, as cly sh, tr dism & mas pyr, occ frags crack in wtr, rr slickensides, comly sft & sb fis - fis. tr m brn ironstone frags.

SH: m - dk gy, plty - sbbkly, micmica, as cly sh, comly sft, fis, sb fis, sly carb, tr dism & mas pyr, no shear structures.

SH: m - dk gy, m - dk brn gy, plty - occlly sbbkly, micmica, as cly sh, rr greasy frags, comly sft, fis - semi fis, occ frags swell or crack in wtr, rr pyric frags.

SH: m - dk gy, plty - occlly sbbkly, micmica, as cly sh, rr pyr, sft, sb fis - fis, no shear structures, occ frags crack or swell in wtr.

SH: m - dk gy, 15% lt gy brn, micmica, carb, sly pry, predly as cly sh, comly sft, fis - sbfis, occ frags sly slty or sdy, rr sltst & ironstone frags.

SH: m - dk gy, sb plty - occlly sbbkly, micmica, as cly sh, tr dism & mas pyr, occ frags crack or swell in wtr, sft, sb fis - fis, 3-4% ironstone & rr off wh, lt gy, sils sltst & slty - v f l gred, tt, qtzs ss frags.

SH: lt - dk gy, plty - occlly sbbkly, micmica, as cly sh, occ slty frags, sly carb, sly swelling or crackng in wtr, rr lt gy sltst & m brn ironstone frags.

SH: m - dk gy, plty - occlly sbbkly, micmica, 20% of frags slty or sdy, comly sft, sb fis - fis, tr off wh, slty - v f u gred, sils, v f ss stringers,.

SH: m - dk gy, plty, sb plty, rr blk frags, sft, comly fis, semi fis, frags swell or crack in wtr, sly carb, no shear structures, non calcs.

SH: m - dk gy, 15-25% lt gy brn, sb plty - sbbkly, micmica, as cly sh, comly sft, sb fis - fis, tr dism & mas pyr, tr ironstone or lt gy, slty - v f l gred slty ss frags, sly carb, non calcs.

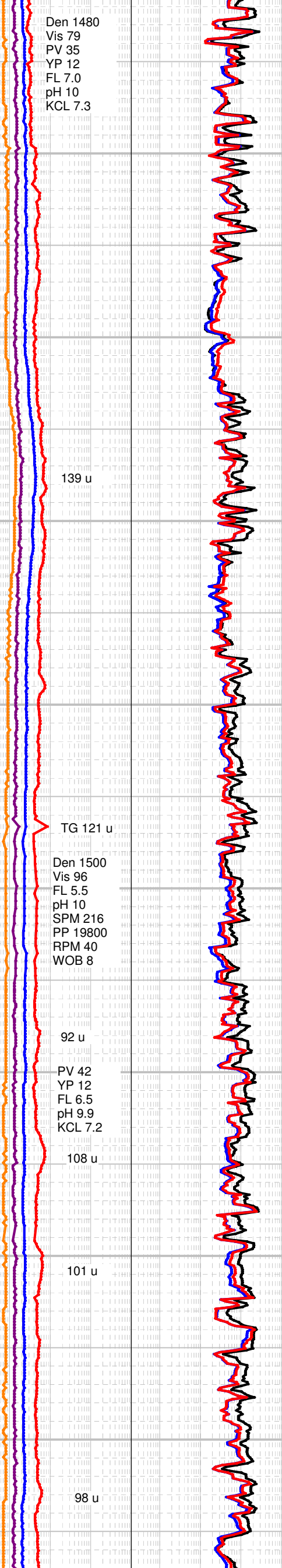
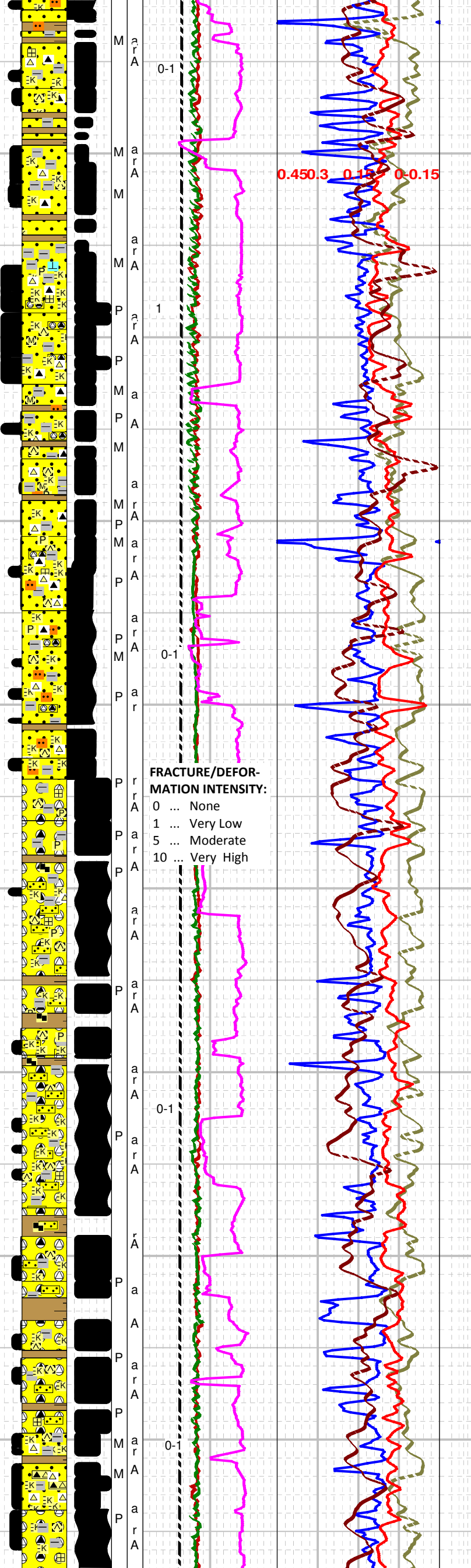
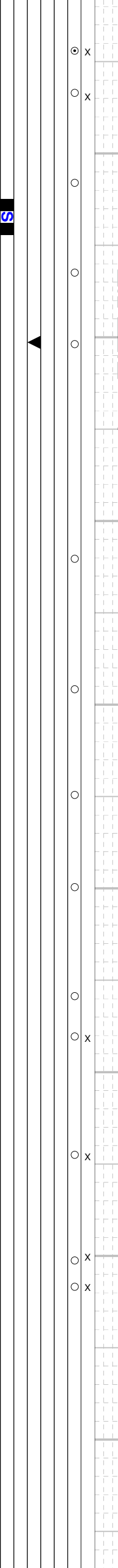
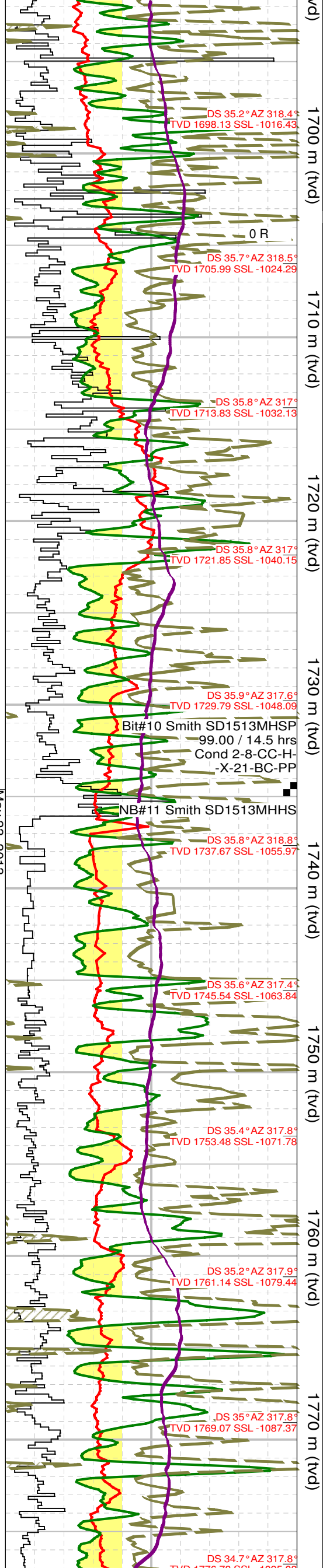
SH: m - dk gy, plty - sbbkly, micmica, sft, fis - sb fis, tr dism & occ mas pyr, 3% fracd ironstone frags & rr lt gy, off wh sltst frags.

SH: m - dk gy, plty - sbbkly, micmica, as cly sh, occ sly slty, sdy, locally chky & sly calcs, or carb frags, 10-15% lt gy, arg, comly sft sltst frags & rr m brn ironstone frags, no shear structures, rr pyr.

SH: m - dk gy, plty - sbbkly, micmica, as cly sh, occ sly slty, sdy, locally chky & sly calcs, or carb frags, 10-15% lt gy, arg, comly sft sltst frags & rr m brn ironstone frags, no shear structures, rr pyr.

SH: m - dk gy, plty - sbbkly, micmica, as cly sh, tr v f dism carb flks, sft, fis, occ frags swell or crack in wtr, tr lt gy, comly sft, arg, sltst frags, sly chky & calcs.

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SS: cons, s&p, lt gy, lt gy brn, f - m gred, occ frags / floating c qtz & cht grs, rr granules, cglic ip, sbang - sbrdd, ang ip, sils, firm, non calcs, comly / lt gy, lt brn, off wh arg mtx, kao mtx por?, sily pyric, frags comly / 1-7% blk, dd, bit plugged intgran por, no vis por, slow p, yel gn blomg cut flor.

SS: cons, off wh, v lt brn, qtzs - s&p, f - u m gred, occ frags / floating c cht grs, sbang - sbrdd, ang ip, sily calcs, sils, sily pyric, comly / off wh, v lt gy brn arg mtx, fri - firm, / sil overgrowths, p gr relief, 9-12% kao mtx por, no vis intgran por, v slow p yel gn blomg cut flor.

SS: off wh, lt brn, cons, s&p, f - m gred, occ frags / floating c qtz & cht grs, rr cht granules, cglic & ip mtx supported, sbang - sbrdd, ang ip, p - modly srt, sily calcs, sft - firm, sils, sily pyric, comly / off wh, lt gy brn, ocly swelling arg mtx, kaoc, sily carb, no vis intgran por, predly / p gr relief, v wk p yel gn blomg cut flor, 9-12% kao mtx por.

SS: off wh, lt brn, cons, s&p, frags comly swell & fall apart in wtr, f - m gred, rr c gred frags, rr granules, cglic ip & mtx supported, sbang - sbrdd, ang ip, p - modly srt, sily calcs, sils, sft & fri - firm, sils, pyric, sily carb, comly / off wh swelling or lt gy arg mtx, / p gr relief, p reservoir, 1-12% kao mtx por, no vis intgran por, no cut flor.

SS: off wh, lt brn, cons, s&p, sily - l m gred, occ frags / floating u m - c qtz & cht grs, tr fracc cht granules, cglic ip & mtx supported, sbang - sbrdd, ang ip, p - modly srt, sily calcs, sils, sft & fri - firm, sils, pyric, sily carb, comly / off wh or lt gy, lt gy brn arg mtx, spotty q wh kao, rr carb grs, predly / p gr relief, rr frags / sil druse, p reservoir, spotty 9% kao mtx por, no vis intgran por, v wk, p rapid, yel gn blomg cut flor.

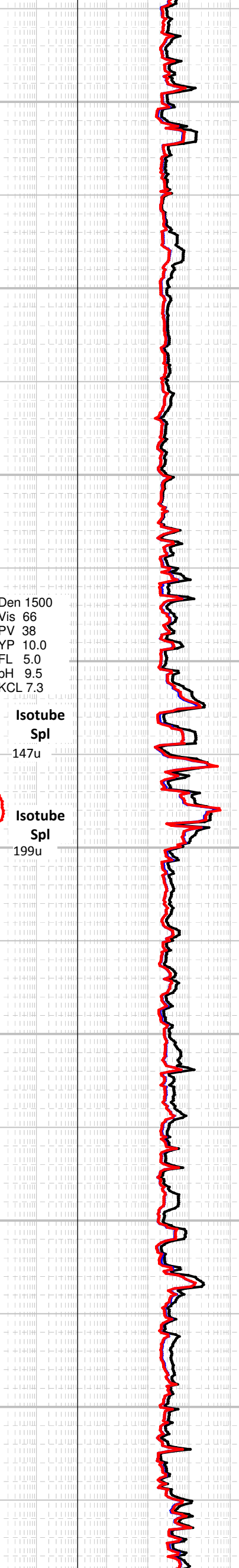
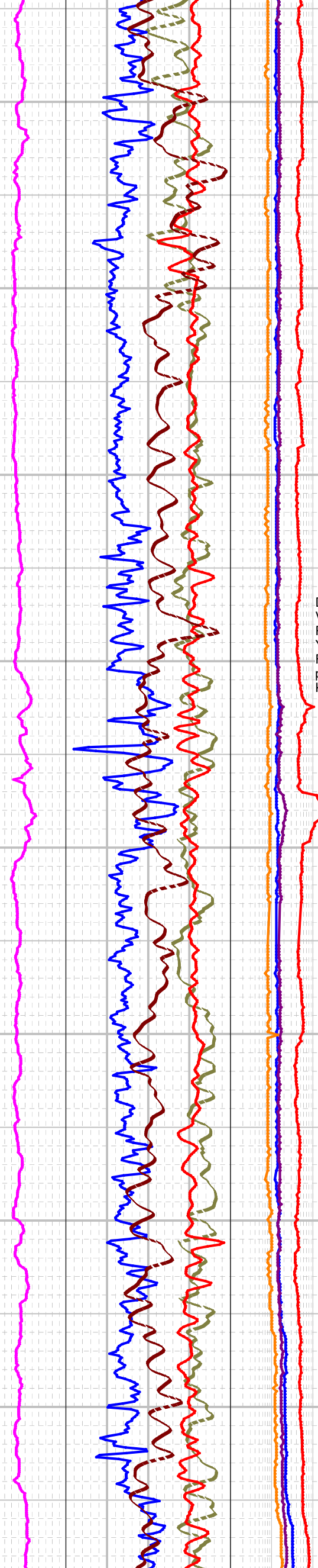
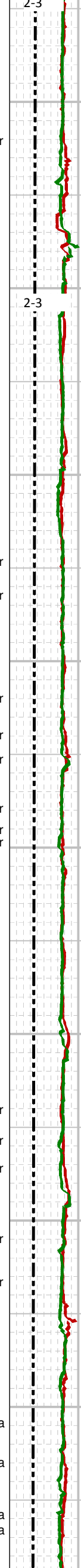
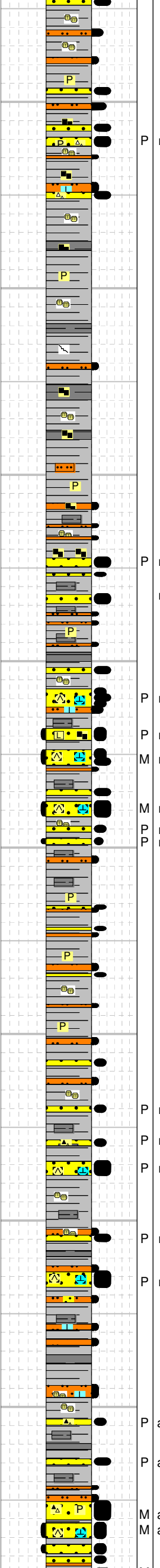
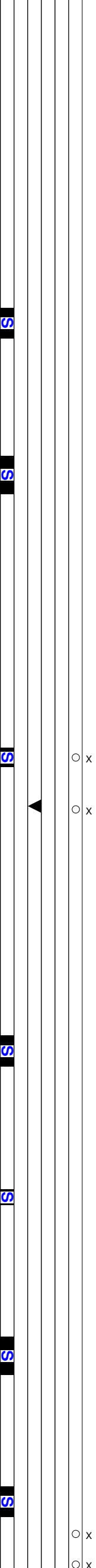
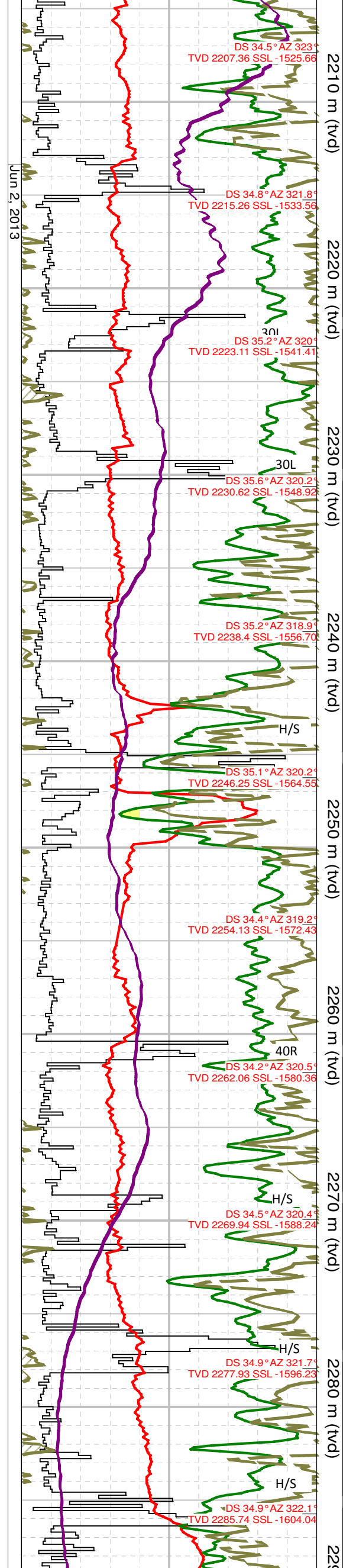
LT CHT CGL: 25% as fracc off wh, lt gy, rr yel, c cht grs & cht granules, cglic, cl supported ip, ss mtx off wh, lt gy brn, f - ocly m gred, rr frags / floating c cht grs, sbang - sbrdd, ang ip, sily calcs, sils, rr pyr, comly / off wh, lt gy brn, lt gy arg mtx, fri - ocly firm, ocly / carb grs, no vis intgran por, rr frags / 6-9% kao mtx por, v wk, v p yel gn blomg cut flor.

LT CHT CGL: 25% as fracc off wh, lt gy, c cht & cht granules, cglic, cl supported ip, ss mtx off wh, lt gy brn, f - ocly m gred, rr frags / floating c cht grs, sbang - sbrdd, ang ip, sily calcs, sils, rr pyr, comly / off wh, lt gy brn, lt gy arg mtx, fri - ocly firm, ocly / carb grs or flks, predly / no vis intgran por, rr sil druse xls, tr 6-9% kao intgran por, v wk, v p yel gn blomg cut flor.

CGL: 25% as fracc off wh, lt gy, ocly m brn, rr blk, c cht & cht granules, cglic, cl supported ip, ss mtx off wh, lt gy brn, f - ocly m gred, rr frags / floating c cht grs, sbang - sbrdd, ang ip, sily calcs, sils, rr pyr, comly / off wh, lt gy brn, lt gy arg mtx, fri - ocly firm, ocly / carb grs or flks, predly / no vis intgran por, rr sil druse xls, 6-9% intgan & kao plugged mtx por, v wk, v p yel gn blomg cut flor.

CGL: 20-25% as uncon sbrdd - rdd, wh, ocly lt gy, yel, rr blk c cht grs & granules, cglic, mtx - cl supported, ss mtx off wh, lt brn gy, s&p, f - ocly m - c l gred, sbang - sbrdd, ang ip, sily calcs, locally sils & / sil overgrowths, comly / off wh, lt - ocly m brn arg mtx, rr pyr, p gr relief, rr sils druse, frags comly / no vis intgran por, 6-9% intgran & kao mtx por, v wk, slow yel gn blomg cut flor, predly as p reservoir, 20% m brn, rr dk brn gy, ply - blk, sh frags.

SS: cons, off wh, lt gy brn, s&p, f - ocly m gred, occ frags / floating c or rr granules, tr c gred frags, ip cglic & mtx supported, sbang - sbrdd, ang ip, sily calcs, comly sils, fri - firm, grs ocly sutured, sils & / sil overgrowths, comly / off wh, ocly lt gy brn arg mtx, cly swelling in acid, rr pyr, 3-7% kao mtx por, comly tt, / < 60% lt - m gy, lt brn, off wh cht grs, no vis intgran por, wk slow yel gn blomg cut



SH: m - dk gy, fis - sbfis, nn calcs, slty & sdy strgs thru, slyly carb, low toc, s tr pyr, tr micmica, modly sft

SLTST: m gy, sdy ip, slyly calcs, thn lams, micmica ip, tr carb mat, s tr pyr

SS: lt - m gy - brnsh gy, qtz, mntr cht, occ lit gr, occ carb frag, predly vf - l f gred, locky u f gred, slty ip, sbrdd, py srt, sil + mntr sec calc cmt, tr pyr, thn beds, w ind, tr hydc stng, tt

SLTST: m gy, sdy ip, slyly calcs, thn lams, micmica ip, tr carb mat, s tr pyr

SH: predly m gy / occ dk gy - blk carb beds, fis - sbfis, nn calcs, occ slty lam, tr pyr, wkly - modly micmica, modly sft, rr calc fild micfrac, occ hi angle jt

SLTST: m gy, sdy ip, grdg - vfg ss, slyly calcs, tr pyr, micmica ip, tr carb mat

SH: predly m gy / occ dk gy - blk carb beds, fis - sbfis, nn calcs, occ slty lam, tr pyr, wkly - modly micmica, modly sft, rr calc fild micfrac, occ hi angle jt

SLTST: m gy, slyly calcs, tr carb mat, tr pyr, micmica

SS: lt - m gy, qtz com - abnt cht occ lits & carb frags, predly vfg, 5-7% l f gred, slty mtz, prim sil & tr - mntr sec calc cmt, tr ptch pyr cmt, mod indn, tt, thn beds

SH: m - dk gy, occly blk, fis - sbfis, nn calcs, carb ip, tr py, com vfg sdy strgs, slty lams, modly sft

SS: lt - m gy, qtz com - abnt cht occ lits & carb frags, predly vfg, 5-7% l f gred, slty mtz, prim sil & tr - mntr sec calc cmt, mod indn, tt - locky v wk por, pos frac por, rr wh micxl calc fild micfrac, rr drsy euhed qtzs xls, tr spy brn hydc stng, no vis flor, tr v fnt slow wk cut, incrg pyr cmt

SH: m - dk gy, locky blk, fis - sbfis, carb ip, nn calcs, s tr pyr, micmica ip, slty lam

SLTST: m gy, slyly calcs, sdy ip, micmica, tr carb mat, thn strgs

SH: m - dk gy, locky dk gysh brn - blk, fis - sbfis, nn calcs, wkly micmica, carb ip, s tr pyr, modly sft - sft, slty & sdy strgs, rr sheared gr

SS: m gy, slty - l f gred, sbrdd, py srt, sil + tr calc cmt, tt, thn strgs

SS: m gy, vf - l f gred, 3-5% u f gred, c slt thru, qtz, cht, lits & carb frags aa, sbrdd, py srt, sil + mntr calc cmt, mod indn, thn beds, tt

SLTST: m gy, locky sdy, slyly calcs, micmica ip

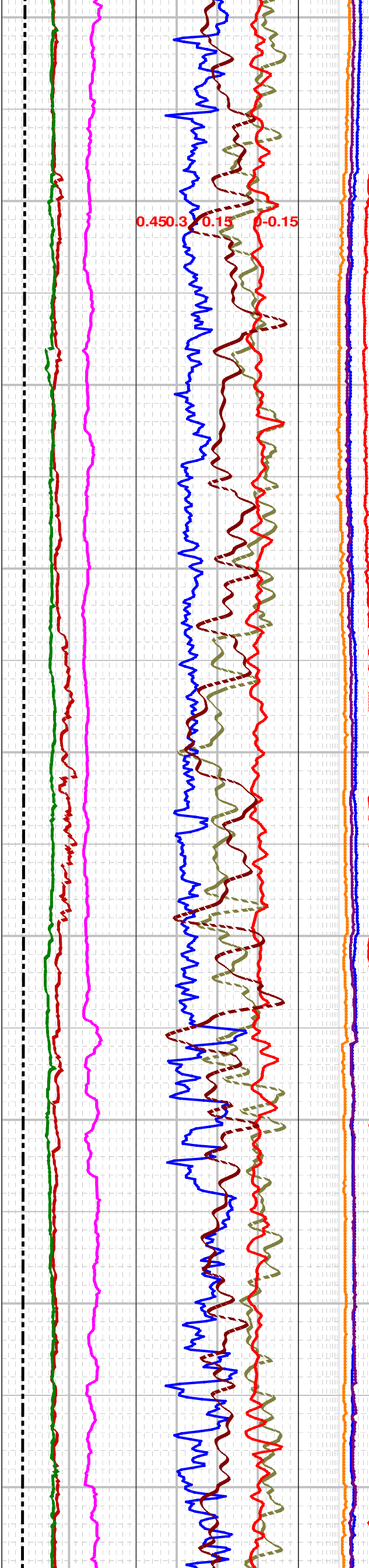
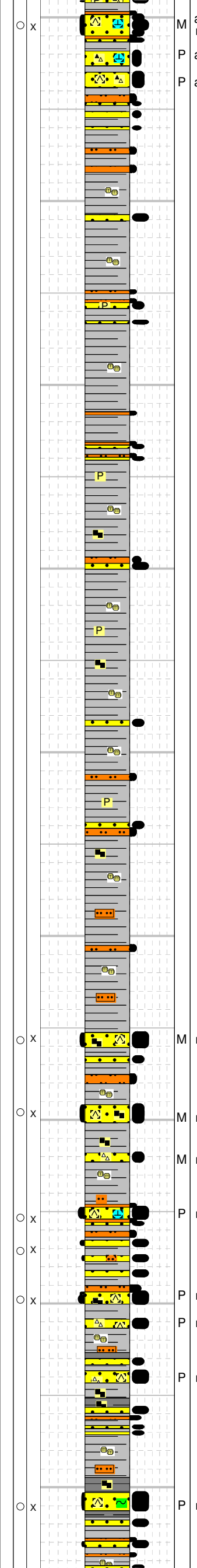
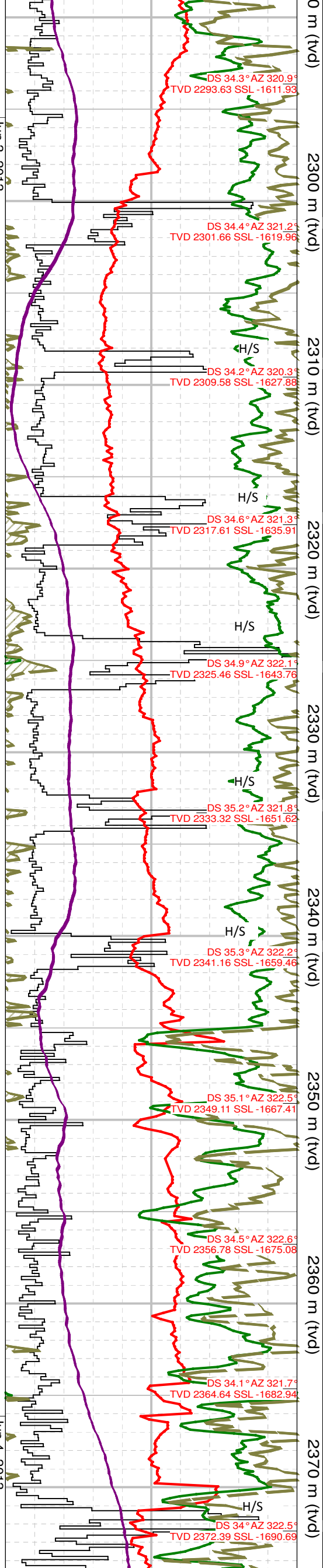
SH: m - dk gy, locky blk, sbfis, nn calcs, slty lam, occ sdy ptgs, carb ip, micmica ip, modly sft - sft, tr pyr

SLTST: m gy, f - c slt, locky grdg - vfg ss, slyly calcs, s tr pyr, micmica ip, slyly carb

SS: m brnsh gy, predly c slt - vfg, locky grdg to f gred, sbang - sbrdd, mod srtg, sil + calc cmt, tr pyr,

Jun 3, 2013

Jun 4, 2013



WOB 5.6
RPM 43
PP 24850
SPM1 108
SPM2 109
PO 1.70

Den 1490
Vis 74
PV 35
YP 11.5
FL 6.0
pH 9.5
KCL 7.0

Isotube
Spl
187u

WOB 3-6
RPM 44
PP 24850
SPM1 109
SPM2 109
PO 1.70

Isotube
Spl

WOB 4-6
RPM 45

modly ind, modly lit, lt - v wk por, tr ight brn hyd

stng, v fnt slow hazy cut, v p shw

SH: m - dk brnsh gy, fis - sbfis, nn calcs, micmica ip, sily carb, slty lam, s tr pyr, sft

SS: m gy - sily brnsh gy, qtz, cht, lits & carb frgas, predly slty - vfg, 7-10% l f gred, tr u f gred, sbrdd, modly srt, sil + tr sec calc cmt, tr pyr, mod indn, tt

SLTST: m gy, sdy ip, sily calcs, tr carb mat, lams

SH: m - dk gy, brnsh gy, fis - sbfis, nn calcs, occ sdy strg, slty lam, wkly micmica, low toc, modly sft

SS: m gy - brnsh gy, vfg, locly grd - f gred, slty, sbrdd, mod - py srt, sil + tr calc cmt, locly micmica, tr carb mat, tr pyr, tt

SH: m brnsh gy, fis - sbfis, nn calcs, slty & sdy lams, tr - mnr micmica mat, sily carb, low toc, modly sft

SS: m gy - brnsh gy, vfg, locly grd - f gred, slty, sbrdd, mod - py srt, sil + tr calc cmt, locly micmica, tr carb mat, s tr pyr, modly w ind, tt, thn strgs

SLTST: m gy, sdy ip, sily calcs, tr carb mat, lams

SH: m - dk brnsh gy, fis - sbfis, nn calcs, occ slty & sdy lams, rr pyr, carb ip, modly sft

SS: m gy - brnsh gy, vfg, locly grd - f gred, slty, sbrdd, mod - py srt, sil + tr calc cmt, locly micmica, tr carb mat, s tr pyr, modly w ind, tt, thn strgs

SLTST: m gy, sdy ip, sily calcs, tr carb mat, lams

SH: m - dk brnsh gy, fis - sbfis, nn calcs, occ slty & sdy lams, rr pyr, carb ip, modly sft

SH: m brnsh gy, fis - sbfis, nn calcs, wkly micmica, tr carb mat, scat carbz pl rmn, modly sft

SLTST: m gy, sdy, nn calcs, micmica ip, carb ip

SS: m brnsh gy, predly vfg - c slt, locly grd - l f gred, sbrdd, mod srtg, sil cmt, tr calc cmt, qtz, cht & com carb frgas, modly w ind, predly tt, ptch wk por (0-5%), tr lt brn hyd stng, no vis flor, fnt slow hazy cut, q shw, s tr pyr

SLTST: lt - m brnsh gy, sdy ip, v sily calcs, sily carb, micmica

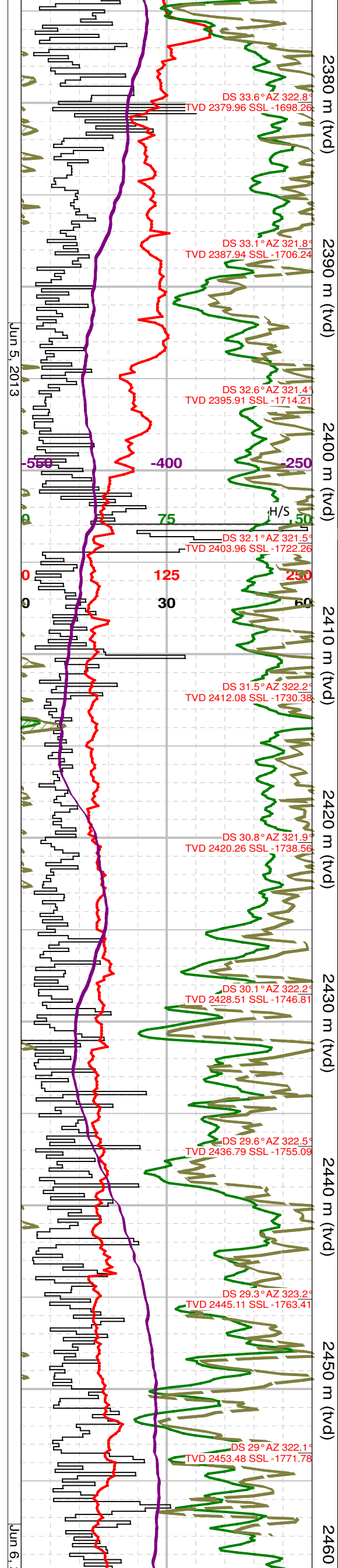
SLTST: m gy - brnsh gy, sdy ip, nn - v sily calcs, carb ip

SS: m gysh brn, qtz, cht, lits & occ carb frgas, vf - f gred, slty mtx, sbrdd, py srt, sil cmt, tr sec calc cmt, mod indn, predly tt, scat wk por (0-4%), tr brn hyd stng, no vis flor, v slow fnt cut, v p shw

SH: m - dk brnsh gy, fis - sbfis, nn calcs, slty lams, sdy ptgs, carb ip, low toc

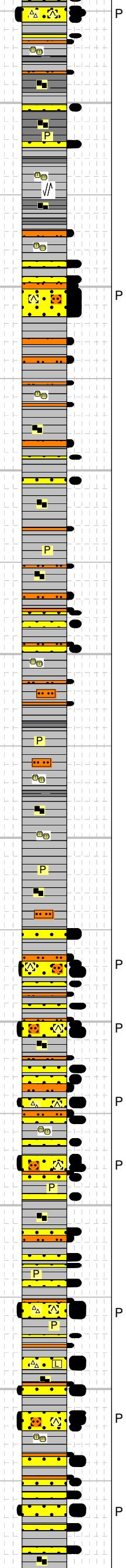
SH: v dk brnsh gy - blk, sbbly, nn calcs, carb, tr pyr, frm, modly brit, occ jt, occ sdy strg, no vis flor, extry slow fnt dd o cut, slty lam

SS: m brnsh gy, vf - f gred ip, slty mtx, sbang, py srt, s tr glau, sil cmt, sily calcs, modly ind, tt - vp por, tr



2380 m (tvd) 2390 m (tvd) 2400 m (tvd) 2410 m (tvd) 2420 m (tvd) 2430 m (tvd) 2440 m (tvd) 2450 m (tvd) 2460

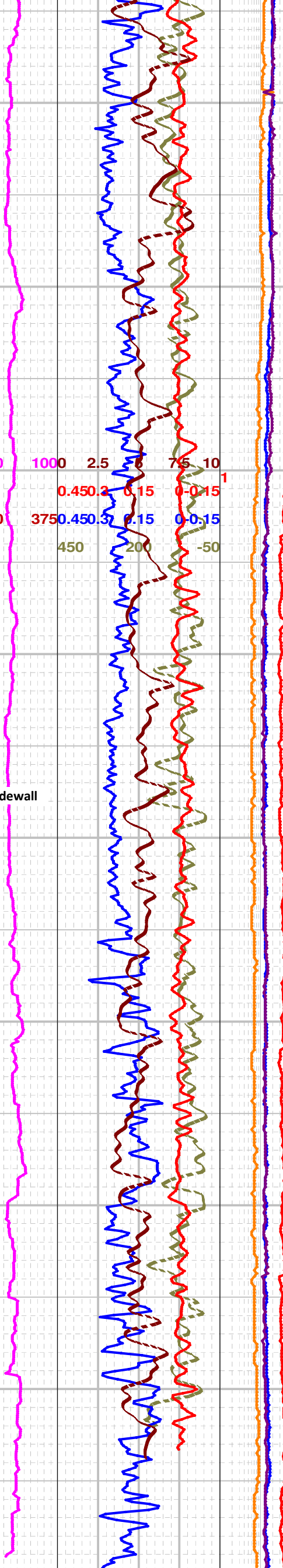
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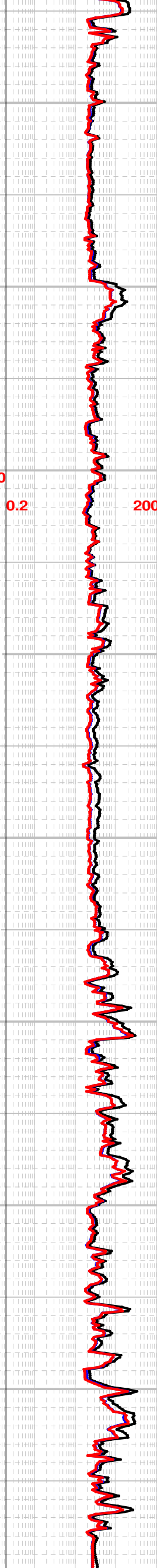
P r P a P r P r P a P r P r P r P r P r P r

500 300 1000 2.5 7.5 10 10000 0.2 2000 125 250 375 0.450 0.37 0.15 0.0-0.15 450 200 -50

Desorbed Sidewall



PP 17400
SPM1 0
SPM2 123
PO 1.44
Isotube
Spl's X2
Den 1500
Vis 71
PV 34
YP 11.5
FL 5.0
pH 9.5
KCL 6.7
WOB 4.5
RPM 49
PP 17700
SPM1 0
SPM2 121
PO 1.42
Den 1500
Vis 72
PV 39
YP 12.0
FL 5.0
pH 9.5
KCL 6.8



SS: m gysh brn, qtz, mnr lt cht & dk lits, occ carb gr, s tr glau, predly vf - f gred, rr l m gred cls, sbrdd - sbang, py srt, sil + tr calc cmt, **wk ptch amb hydc stng, v wk slow hazy cut, resdl shw**

SH: predly dk gy - blk, sbbkly - sbfis, m - dk brnsh gy, frm, carb ip, nn calcs, slly carb, modly sft

SH: m - dk brnsh gy, fis - sbfis, nn calcs, slty lam, occ sdy strgs, wkly micmica, modly sft, occ sheared gr

SS: m brnsh gy, vfg, slty & arg mtx, sbang - sbrdd, py srt, sil cmt, s tr sec calc cmt, carb ip, tt

SLTST: m gy, sdy ip, v slly calcs, carb ip, micmica

SH: m - dk brnsh gy, fis - sbfis, nn calcs, slty lams, occ sdy strg, wkly micmica, tr scat pyr, carb ip, modly sft

SH: predly m - dk brnsh gy aa, 5-10% dk gy - blk, sbfis, nn calcs, locly pyric, frm, incrly carb, slty lams, occ vfg sdy strgs

SS: m brnsh gy, vfg, slty & arg mtx, sbang - sbrdd, py srt, sil cmt, s tr sec calc cmt, carb ip, tt

SH: m - dk gy, fis - sbfis, nn calcs, carb ip, occ pyric lam, locly slty, modly frm, micmica ip

SLTST: m - dk gy, nn calcs, sdy, carb ip, micmica

SS: m brnsh gy, predly vfg, 7-10% f gred ang - sbang flotg cls, slty arg mtx, sbrdd, py srt, sil cmt, mod indn, tt, **no vis flor, tr v fnt slow hazy cut, resdl shw, s tr glau**

SH: m - dk gy - brnsh gy, fis - sbfis, nn calcs, carb ip, occ pyric lam, locly slty, modly frm, intbd ss

SS: m gy, vfg, slty arg mtx, sbrdd, py srt, qtz, cht, lits & occ carb frags, 7-10% f gred ang - sbang cls, sil cmt, mod indn, tt, no vis shw

SLTST: m - dk gy, nn calcs, sdy ip, carb ip

SH: m - dk gy, dk brnsh gy, locly grd - blk, fis - sbfis, nn calcs, incrly carb, tr scat pyr, modly frm & brit

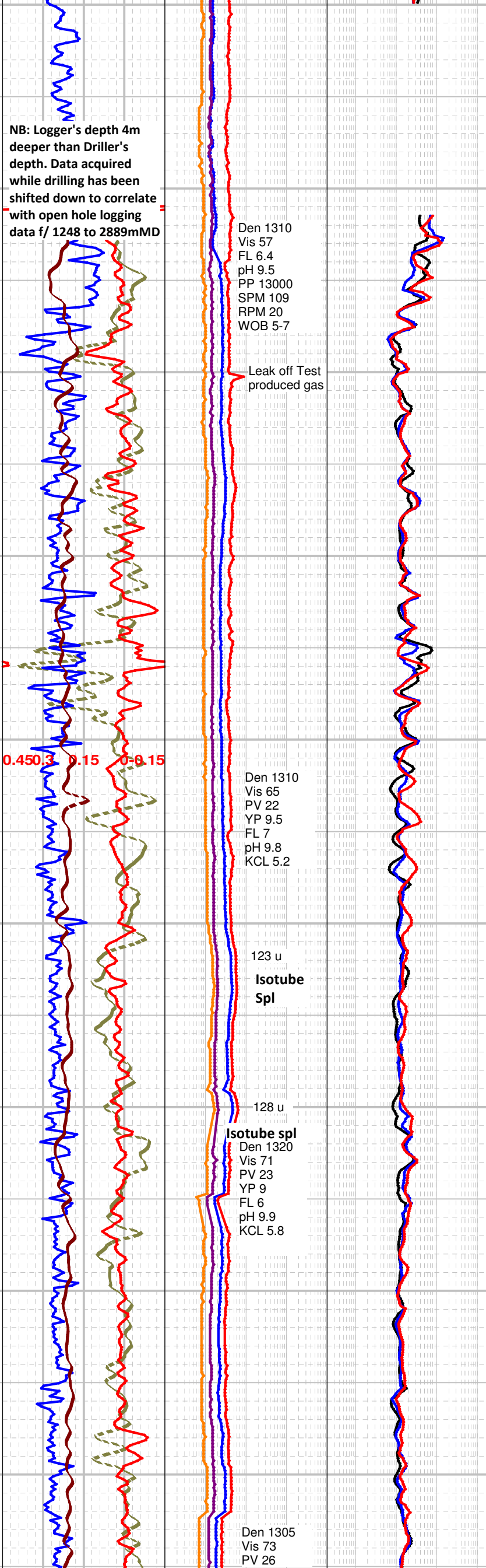
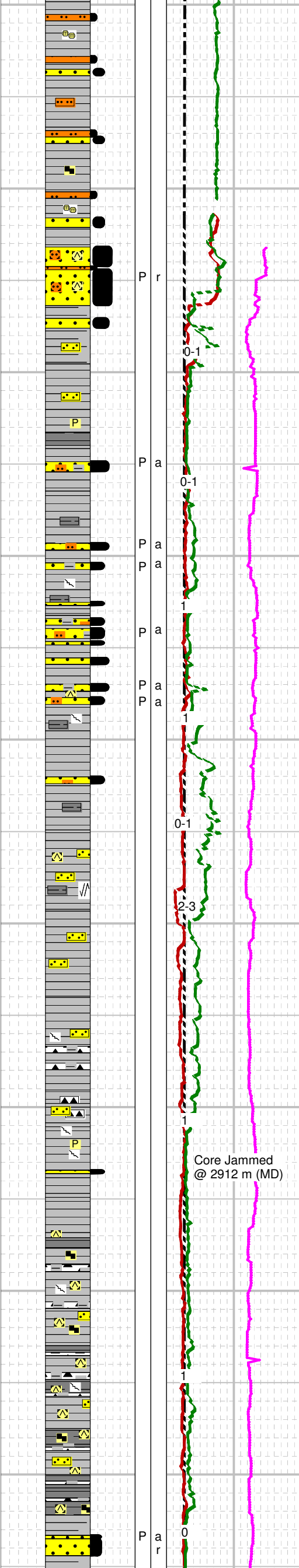
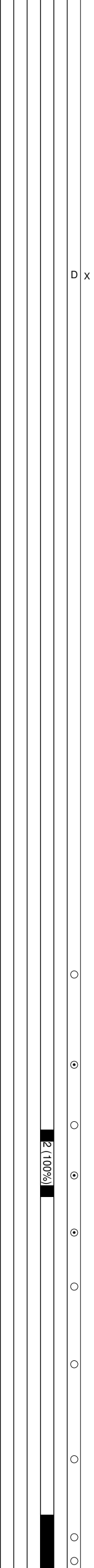
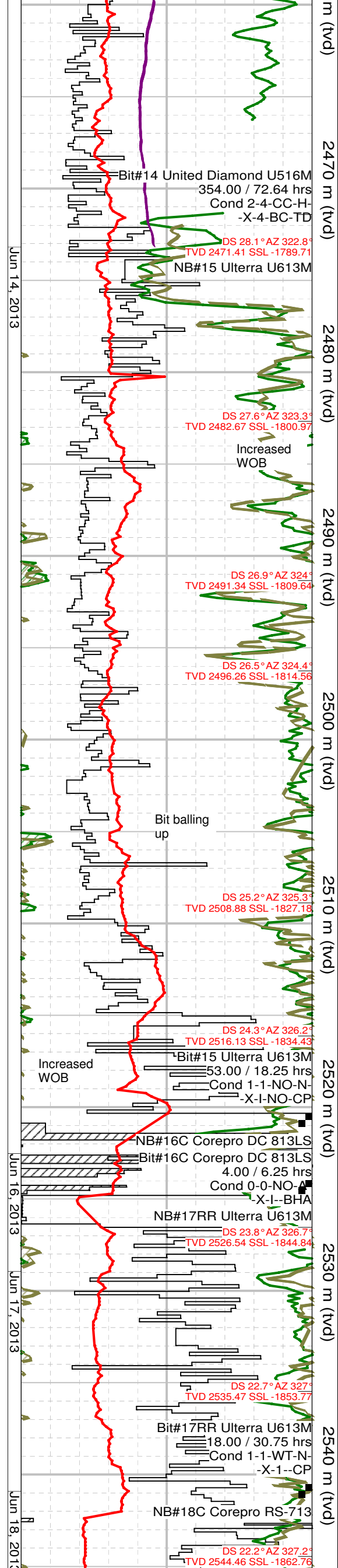
SH: m - dk gy, locly grd - blk, fis - sbfis, nn calcs, carb ip, frm

SS: m gy - brnsh gy, qtz & com lt cold cht, occ dk lits, vfg, 7-10% f gred, rr flotg m gred sbang cls, sbrdd, py srt, sil cmt, tr calc, **tr hydc stng, slow wk cut, redl dd o shw**, tt - v wk por (0-3%), modly ind, fri ip

SH: m - dk brnsh gy, fis - sbfis, nn calcs, micmica ip,

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SLTST: m - dk gy, sdy ip, nn calcs, carb ip, micmica

SH: m - dk brnsh gy, fis - sbfis, nn calcs, micmica ip, carb ip, intbd vfg ss, slty lams, modly frm

SS: m - dk gy - brnsh gy, vfg, slty & arg mtx, nn calcs, tt, thn beds

SS: cons, lt - m brn, slty - f gred, s&p, comly / m brn arg cmt, grdg ip to sdy, slty sh, py srt, sbang - sbrdd, ang ip, pyric, carb, locally v sils, occ frags / floating m qts grs, tt, no shows.

SH: m brn, 4% dk brn, plty - sb plty, rr blkly frags, micmica, sft - m hd, sb fis - fis, predly as cly sh, 20% of frags slty & sdy, grdg ip to v arg sdy sltst or slty - f l gred, v arg, pyric, m brn gy, carb, slty sils ss, tr dism & mas pyr, rr swelling frags, tr slickensides, non calcs.

SH: m brn, 4% dk brn, plty - sb plty, rr blkly frags, micmica, sft - m hd, sb fis - fis, predly as cly sh, 20% of frags slty & sdy, grdg ip to v arg sdy sltst or slty - f l gred, v arg, pyric, m brn gy, carb, slty sils ss, tr dism & mas pyr, rr swelling frags, tr slickensides, non calcs.

SH: m brn, sb plty - occlly sbbkly, micmica, sft - m hd, fis, occlly brit, tr v f dism pyr, occ frags crack or swell in wtr, rr slickenside surfaces, 7% dk brn, blkly, slty swelling, carb sh frags, 7% m brn, arg, slty ironstone frags, rr mas pyr frags, rr mas pyr, tr calc.

SS: cons, predly m brn, rr wh & m brn frags, fri - comly firm, slty - v f l gred, locally v f u - tr f l gred, ang - sbrdd, rr floating f u - l m ang qtz grs, slty calcs or sidic, slty sils, rr pyr, comly / m brn arg mtx, tt, no shows, comly grdg to sdy arg, tt sltst.

SS: cons, m brn, occlly wh & m brn, cons, / v p gr relief, fri - predly firm, sbang - sbrdd, ang ip, predly slty - v f u gred & / floating f l - rr u qtz grs, slty carb, micas, pyric, slty sidic, comly / m brn arg mtx, slty sils, grdg ip to sdy tt sltst or sdy slty sh, tt, no shows.

SH: m brn, 7-8% dk brn - blk, plty - sb plty, occlly blkly, micmica, tr dism pyr, predly as cly sh, occ frags swell or crack in wtr, < 5% of frags slty & sdy & grdg to v arg, tt, sltst & slty ss, dk brn frags greasy, scat slickensides, bit-balling.

SH: 60% m brn, sb plty - blkly, comly swelling in wtr, micmica, tr dism v f pyr, predly as cly sh, slow yel gn blomg cut flor, tr sltst & arg, slty - v f l gred, sbang - sbrdd, arg, py srt ss frags, 40% of frags dk gy, v dk gy brn, blkly, chty, v hd & non fis, comly grdg to hd cht, rr frags / sil healed frags, **wk yel gn blomg cut flor.**

CHT & SH MNR SS: 40% blk, dk gy, comly rdd, irregular, occlly blkly, crpxl, comly arg, hd, brit, CHT, 50% as m - dk brn, sb plty - blkly, locally splintery, slty pyric firm sh, **wk p yel gn blomg cut flor**, rr lt brn swelling sh frags, 10% m brn, slty - f l gred, ang - srrdd, pyr srt slty ss & sdy sltst frags.

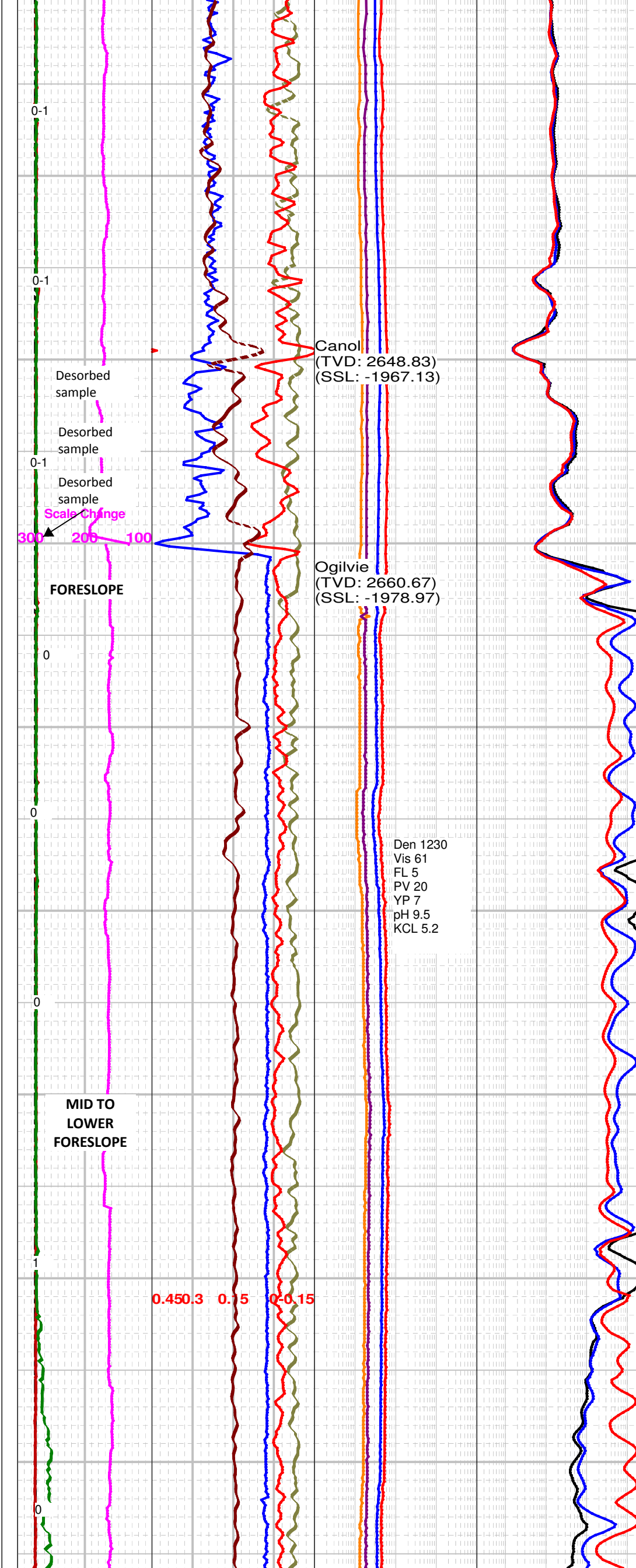
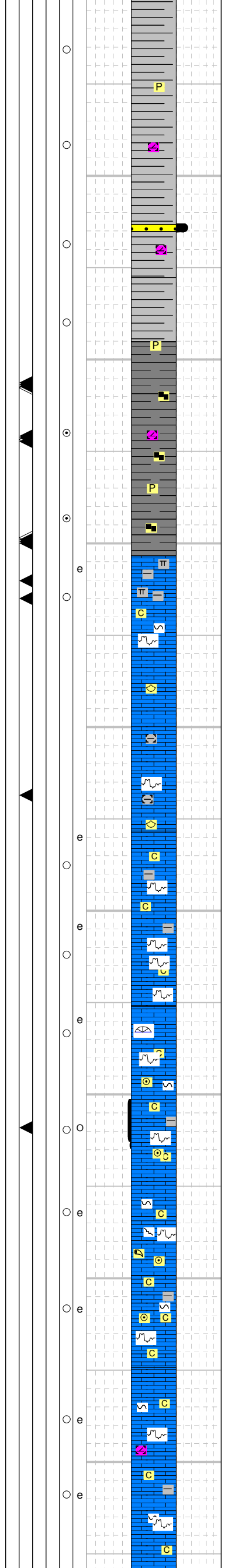
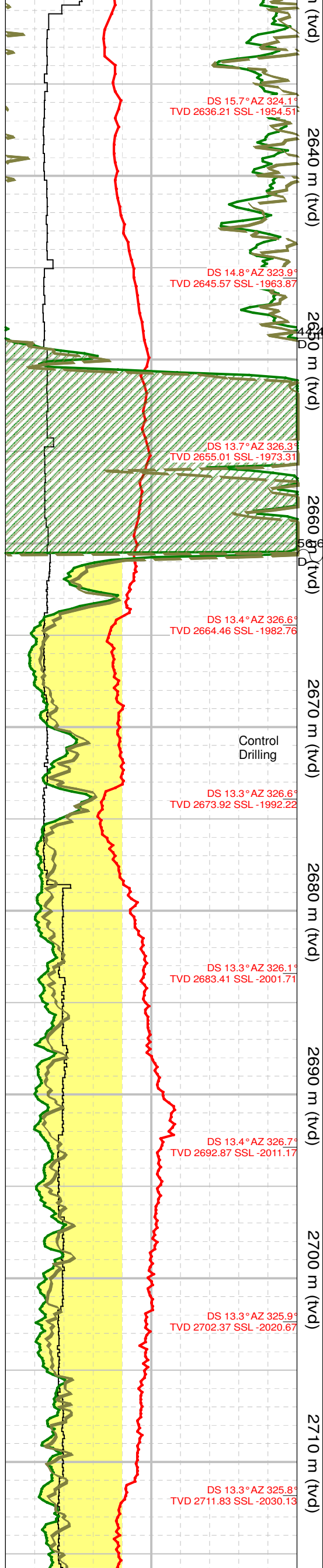
SH: m - dk brn, firm, as cly sh, micmica, occ v f nearly vertical sil lined frags, slty carb, **v wk, slow yel gn blomg cut flor.**

CHTY SH: predly dk gy - blk, hd, blkly, brit, dull, chty, occlly sdy, carb, frags irregular in shape, micmica, ip as fis sh, rr slty & sdy frags, 25% as lt - m brn swelling sh frags, **v wk p, slow yel gn blomg cut flor.**

CHTY SH: predly dk gy - blk, hd, blkly, brit, dull, carb, chty, frags irregular or blkly in shape, micmica, ip as fis sft sh, rr slty & sdy frags, 25% as lt - m brn swelling sh frags, **v wk p, slow yel gn blomg cut flor.**

CHTY SH: blk, v dk gy, sb plty - blkly, sft - hd, fis - brit, comly chty & grdg to arg cht, ip fract, carb, 30% of frags lt - m brn, m - rr dk brn, bit-ground, swelling, rr m brn, slty - v f l gred, arg, tt slty ss frags, **wk slow yel gn blomg cut flor.**

SS: m brn, slty - v f l gred, sbang - sbrdd, v py srt &



SH: m brn gy, m brn, rr dk brn - blk frags, as cly sn, sft - m hd, fis - brit, rr carb flks, sly swelling in wtr, sly pyric, slow, p yel gn blomg cut flor, contamination by mud additive?

SH: m - dk brn, sb plty - blk, micmica, dul, occlly greasy, carb, sft - occlly firm, comly fis, dolc, tr dim v f pyr, predly as cly sh, occ sly stly & sdy frags, 10% of frags dk gy, v stly, sdy, carb, comly brit, grgd to py srt, sly - v f l gred, v arg, py srt ss, wk, p, slow yel gn blomg cut flor.

SH: m - dk brn, sb plty - blk, micmica, sft - occlly m hd, comly fis, dolc, predly as cly sh, rr carb or sdy & stly frags, wk p, slow yel gn blomg cut flor.

SH: dk brn, dk brn gy, sb plty - blk, dull, greasy, comly sft, sb fis, pyric, sly swelling in wtr, carb, occlly sly stly & sdy, slow, p, yel gn blomg cut flor.

SH: m - predly dk brn, 15-20% of frags blk, predly sft, sbfis, pyric, v carb, sly dolc, rr brit frags, occ frags swell or crack in wtr, predly as cly sh, rr stly & sdy frags or rr brit frags, slow, p yel gn blomg cut flor.

SH: m - predly dk brn, 20% of frags blk or dk gy, predly sft, sbfis, pyric, v carb, sly dolc, tr dk brn cht frags, rr brit frags, occ frags swell or crack in wtr, predly as cly sh, rr stly & sdy frags or rr brit frags, slow, p yel gn blomg cut flor.

LS: off wh, lt gy brn, rr m brn frags, crpxl, rexld, mottled, comly chky, bit-ground ip, arg, locally mrlly, as chky mdst, no vis por, no cut flor.

LS: off wh, mottled blk, chky, rexld, bit-ground, as crpxl mdst, comly / blk arg bits cly lined styls, tt, no shows, slow yel gn mky blomg cut flor.

LS: off wh, lt gy brn, mottled, tr m brn frags, rexld, comly chky texd, crpxl - occlly l f xln, 25% of frags / blk ip dd bit & dk brn partings, styl fils, & locally as inter allochem fillings, predly as mdst, rr bracs, q corals & stroms, predly tt, 6-7% bit plugged intpar plugged por?, no cut flor.

LS: predly lt brn, lt yel brn, occlly off wh, occlly mottled, ip rexld & chky, predly as mdst, rr tabulatan cora & strom frags, rr off wh cac spar, 10-15% of frags / blk arg & sly bits lined styls, rr pyr, **no vis por, wk slow, p yel gn blomg cut flor.**

LS: off wh, lt - m yel brn, mottled, 30% of frags / blk arg & bits styls & incls, chky texd, rexld, predly crpxl, q brac, crin & rugisan coral ghosts, non dolc, **arg & bit frag / slow yel gn blomg cut flor, earthy por?, no vis por.**

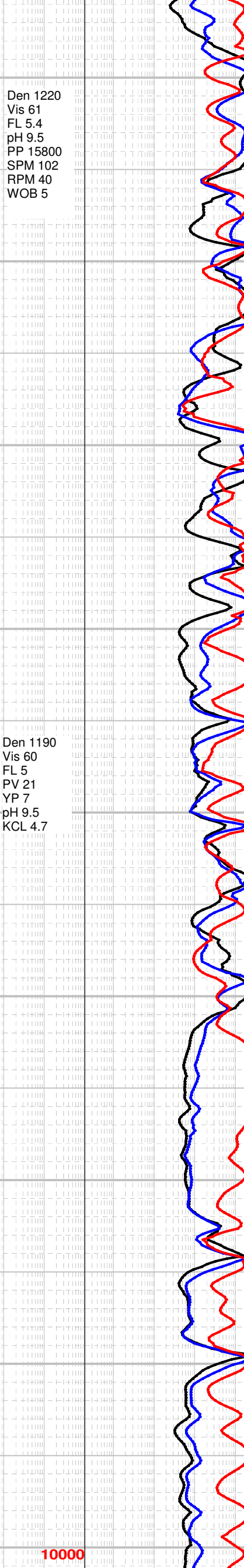
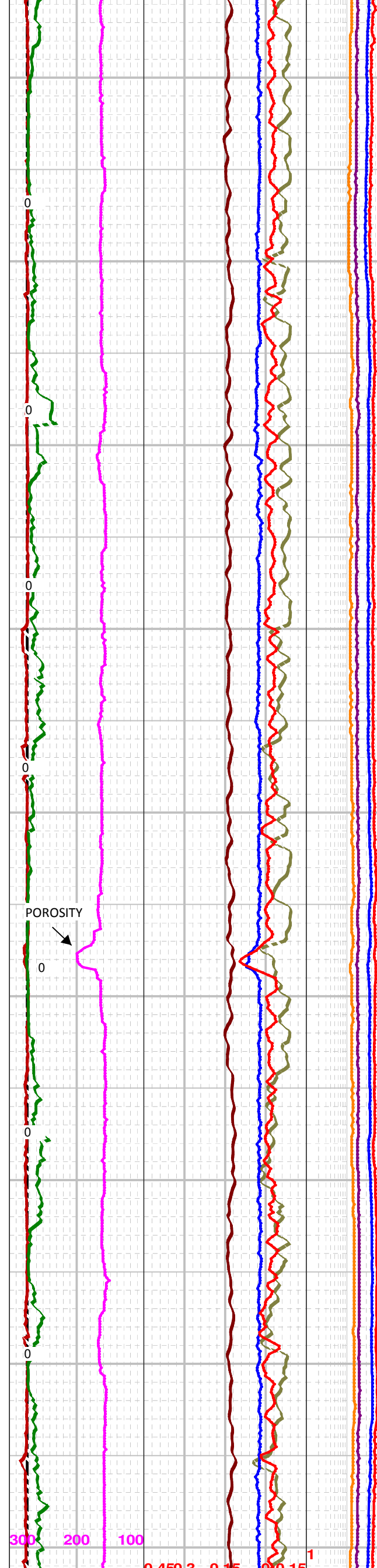
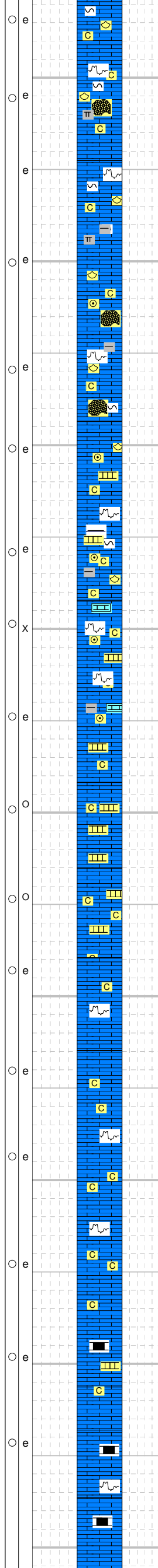
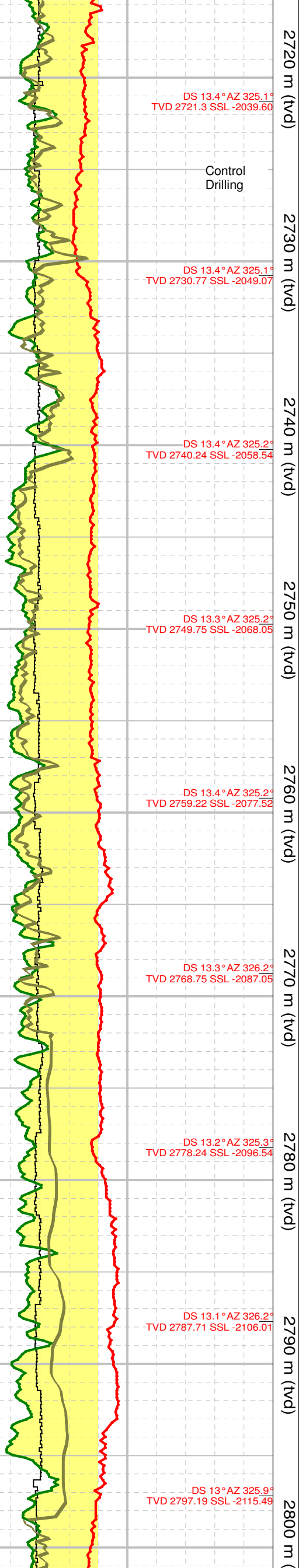
LS: off wh, lt brn, mottled, chky texd, rexld, crpxl, scat blk bit & arg lined styls, fri ip, earthy por?, 15% of frags arg, no vis por, **stylic frags / slow yel gn blomg cut flor.**

LS: off wh, lt brn, rr wh opalescent frags, mottled, chky texd, rexld, crpxl, scat blk bit & arg lined styls, occ ghosts of crins, rugosan corals, bracs, non dolc, fri ip, earthy por?, 15-20% of frags arg, stylic, bits, **no vis por, blk frags / slow yel gn blomg cut flor**, frags ip bit-ground, rr calc healed micfracs.

LS: off wh, lt yel brn, mottled, 25% of frags / dism blk, sly bits arg incls, or as intpar fill between rexld allochems, chky texd, crpxl - locally l f xln, ip as rexld biocl grst, pkst, occ crin ghosts, tr wh & lt brn cht in acid residue, earthy por?, **arg frags / slow yel gn p blomg cut flor.**

LS: off wh, v lt yel brn, lt brn gy, comly mottled, crpxl - occlly l f xln, rexld & comly chky texd, 35% of frags / blk, m brn arg, ip dd bit incls or partings, occ dk brn q dd bit lined org por, earthy por, scat tabulatan coral bafflestones, tr cht in acid residue, **arg or bits frags / slow yel gn blomg cut flor, bit plugged org por?** tr cht in acid residue, rr frags / rhombohedral dol xls.

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LS: off wh, v lt yel brn, lt gy brn, comly mottled, crpxl - ocly l f xln, rexd & comly chky texd, 15-20% of frags / blk ip dd bit, m brn arg incls or partings, 3% as mrly frags earthy por?, tr cht, predly as tabulatan bafflestone & mdst, wkest, **rr org por, arg frags / slow yel gn blomg cut flor, tr cht in acid residue.**

LS: off wh, v lt yel brn, lt brn gy, comly mottled, crpxl - ocly l f xln, rexd & comly chky texd, 35% of frags / blk (ip dd bit), arg incls, lined styls, partings or as interallochem fill, earthy por?, rr bracs, crins, tabulatan coral bafflestone, predly as rexd biocl mdst - wkest, occ frags / 1-8% blk dd bit filled org por? tr cht, arg frags / slow yel gn blomg cut flor.

LS: off wh, v lt yel brn, rr dk brn frags, comly mottled, crpxl - ocly l f xln, rexd & comly chky texd, 20% of frags / blk ip dd bit, lt - m brn gy arg incls, as rr lined styls or partings or as mrly frags, occ crin, brac or coral ghosts, earthy por?, **spotty 1-12% org & rr intpar bit plugged por?**, tr cht, **arg frags / wk, slow yel gn blomg cut flor.**

LS: off wh, v lt yel brn, gy brn, rr dk brn frags, comly mottled, crpxl - l f xln, rexd & comly chky texd, 50% of frags / blk, lt - m brn gy arg incls, rr lined styls, as partings or as interallochem infill, occ crin, brac or coral ghosts, rr coral bafflestone frags, earthy por?, **dd bit lined organic por?** tr cht, **arg frags / wk, slow yel gn blomg cut flor.**

LS: off wh, v lt yel brn, gy brn, rr dk brn frags, comly mottled, crpxl - l f xln, rexd & comly chky texd, 50% of frags / blk, lt - m brn gy arg incls, / rr lined styls, as mrly partings or as interallochem infill, occ crin, brac or coral ghosts, rr stroms, ip as rexd grst, pkst, q bafflestone or bindstone, earthy por?, **1-9% blk dd bit plugged org & occ intpar por?**, tr cht, **arg frags / wk, slow yel gn blomg cut flor.**

LS: off wh, lt yel brn, lt gy brn, comly mottled, predly rexd, chky texd & crpxl, comly sft, brit, rr non rexd crin, peloid grst frags, 25% of frags / mottled blk dk brn, sly bits arg incls, styls, & ocly as inter allochem infill, rr frags / calc spar, occ crin ghosts, rr stroms & tabulatan corals, bindstone, bafflestone, rr pyr, no vis intpar por, no vis druse, **10% blk bit plugged intpar & org por?**, v p faint yel gn blomg cut flor, tr cht.

LS: off wh, lt gy brn, comly mottled, crpxl - ocly l f xln, rexd & comly chky texd, 35% of frags / blk, arg sly bits (dd) incls, lined styls, partings or as interallochem fill, earthy por?, occ stroms, rr bracs & crins, ip as bindstone tr cht, arg frags / slow yel gn blomg cut flor.

LS: off wh, ocly v lt yel brn, lt brn, comly mottled, crpxl - ocly l f xln, rexd & comly chky texd, 25% of frags / blk, ip bit (predly dd) arg incls, lined styls, partings or as interallochem fill, scat rexd stroms, earthy por?, rr bracs, crins, tabulatan coral bafflestone, tr cht, non dolc, **arg & bits frags / slow, p yel gn blomg cut flor, 10-15% org, intpar dd bit plugged por?**

LS: predly lt brn, lt yel brn, ocly off wh, ocly mottled, ip rexd & chky, predly as mdst, rr tabulatan coral & strom frags, rr off wh calc spar, 10-15% of frags / blk arg & sly bits lined styls, rr pyr, **no vis por, wk slow, p yel gn blomg cut flor.**

LS: off wh, lt brn gy, comly mottled, rexd ip & chky texd, crpxl, rr l f xln frags, predly as mdst ls, occ blk bit or arg lined styls, occ calc spar, rr pyr, tt, tr cht, no shows.

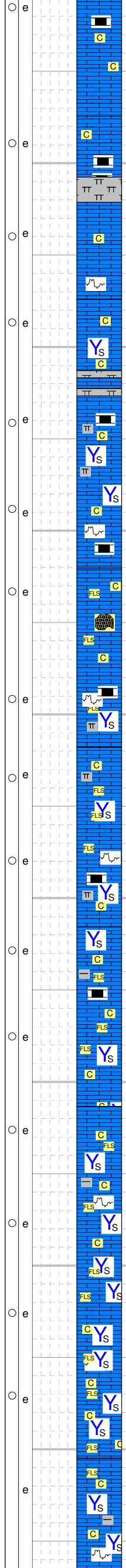
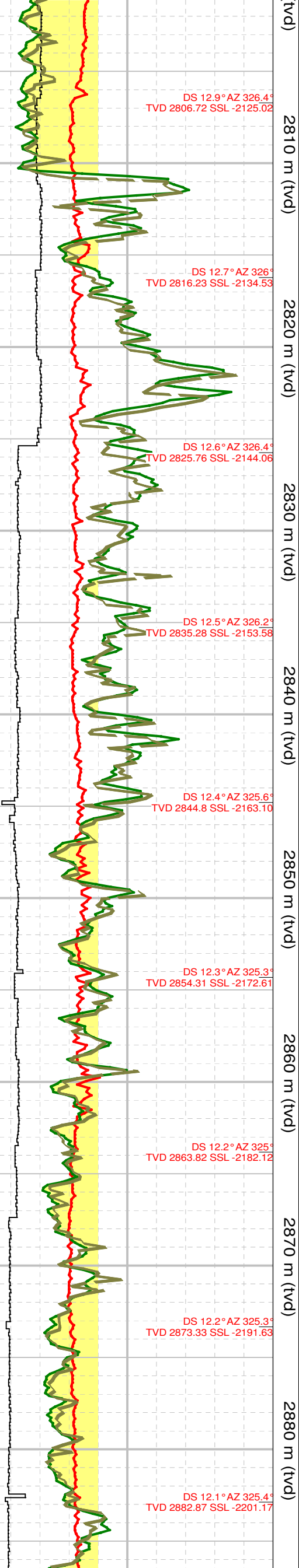
LS: off wh, lt brn gy, lt yel brn, comly mottled, rexd ip & chky texd, crpxl, rr l f xln frags, predly as mdst ls, occ blk bit or arg lined styls, occ calc spar, rr pyr, tt, tr cht, no shows.

LS: off wh, lt brn, comly chky texd & rexd, predly as mdst, rr stroms, 40% of frags / blk comly dism dd bit & cly, ip as blk mrly frags, rr wh calc spar, non dolc, **v wk yel gn blomg cut flor, 10% blk bit plugged por?**

LS: off wh, lt brn, 5% m brn, comly chky texd & rexd, predly as mdst, rr stroms, 40% of frags / blk comly dism dd bit & cly, 10-15% blk mrly sh, rr wh calc spar, non dolc, **v wk yel gn blomg cut flor,**

300 200 100 0.150 0.15 0.15 1 10000

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blk dd bit plugged por?

LS: off wh, lt brn, rexld & chky texd ip, mottled, as Amphipora mdst - floatstone, comly rexld & chky, scat blk bit & arg lined styls, 10-15% blk, dk brn mrly frags, predly tt, **v wk, p yel gn blomg cut flor.**

LS: off wh, lt brn, rexld & chky texd ip, mottled, as Amphipora mdst - floatstone, scat blk bit & arg lined styls, 10-15% blk, dk brn mrly frags, predly tt, v wk, p yel gn blomg cut flor, scat micfracs, occ wh spar, no vis por.

LS: off wh, v lt brn, chky texd, rexld, 10-15% dk brn, blk, mrly, rr wh calc spar, as Amphipora mdst - floatstone, com;ly / blk arg or bit lined styls, no vis por, no cut flor.

LS: off wh, lt gy brn, chky texd, rexld, predly crpxl, occ Amphipora & Stachyoides ghosts, mdst - floatstone, occ blk bit or arg lines styls, rr micfracs, 5-6%dk brn, mrly ls frags, **no vis por, wk, slow, p yel gn blomg cut flor.**

LS: off wh, lt gy brn, chky texd, rexld, predly crpxl, occ Amphipor & Stachyodes ghosts, mdst - floatstone, occ blk bit or arg lines styls, rr micfracs, 5-6%dk brn, mrly lls frags, **no vis por, wk, slow, p yel gn blomg cut flor.**

LS: off wh, mottled lt brn, chky texd, rexld, as mdst, occ Stachyoides, scat blk, arg & dd bit lined styls, rr dk brn mrly ls frags, scat wh calc spar, **no vis por, v p, wk, slow yel gn blomg cut flor.**

LS: off wh, mottled lt yel brn, lt brn, chky texd, rexld, predly crpxl, predly as mdst, occ tabulatan coral bafflestone, q floatstone, rudstone, scat blk bit & blk cly lined styls, tr m brn mrly frags, slow, p wk yel gn blomg cut flor.

LS: off wh, mottled lt brn, chky texd, rexld, crpxl, as rexld Stachyoides, Amphipora rudstone - floatstone, ip as mdst, scat blk lined styls, **no vis por, earthy por?, v wk, p yel gn blomg cut flor.**

LS: off wh, mottled lt brn, chky texd, rexld, crpxl, as rexld Stachyoides, Amphipora rudstone - floatstone, ip as mdst, scat blk lined styls, no vis por, earthy por?, v wk, p yel gn blomg cut flor.

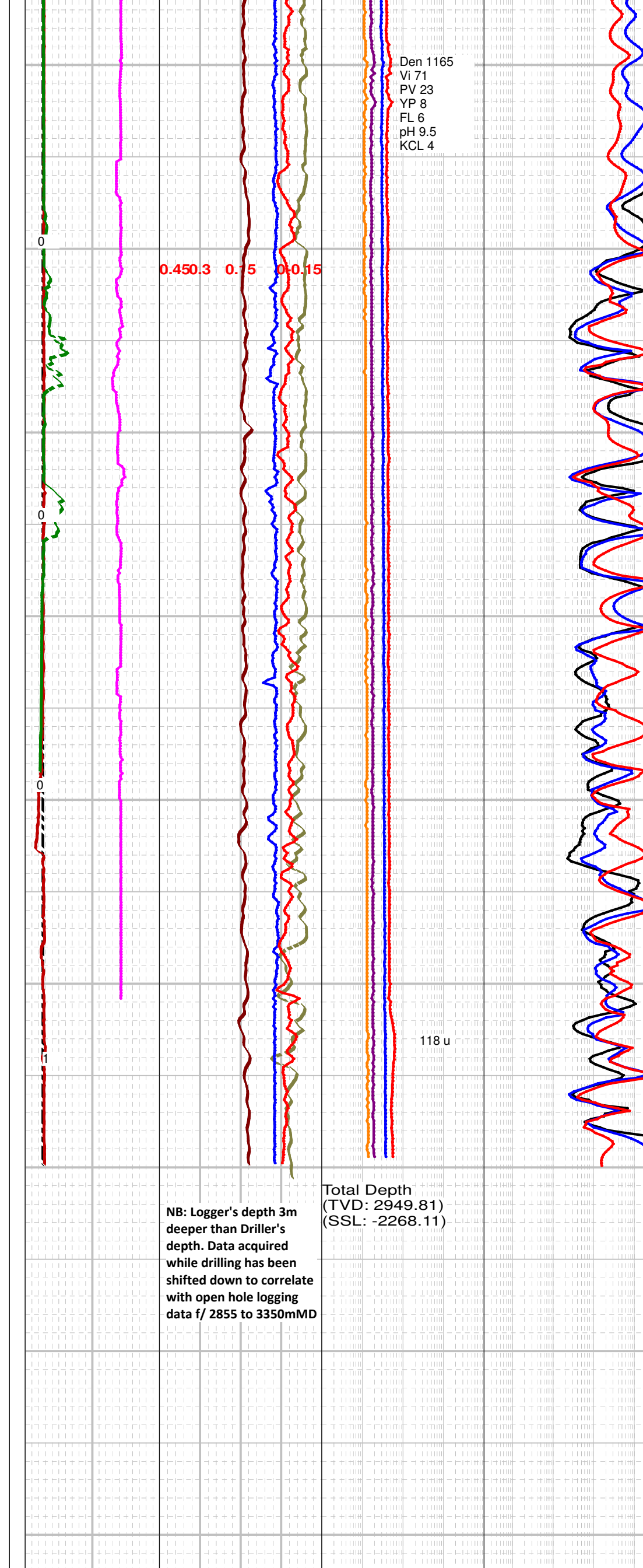
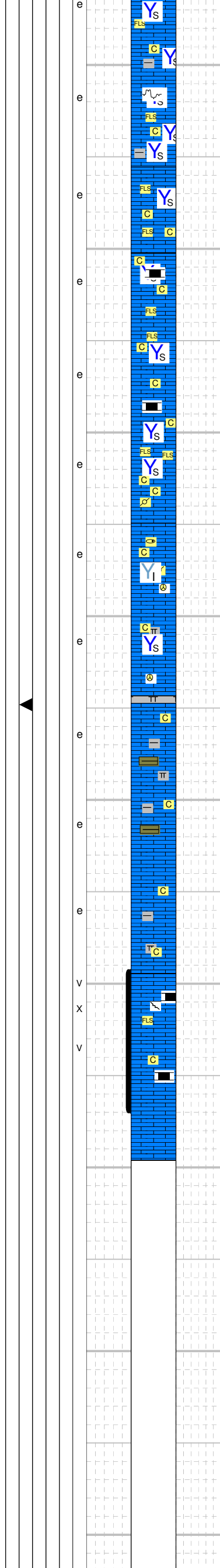
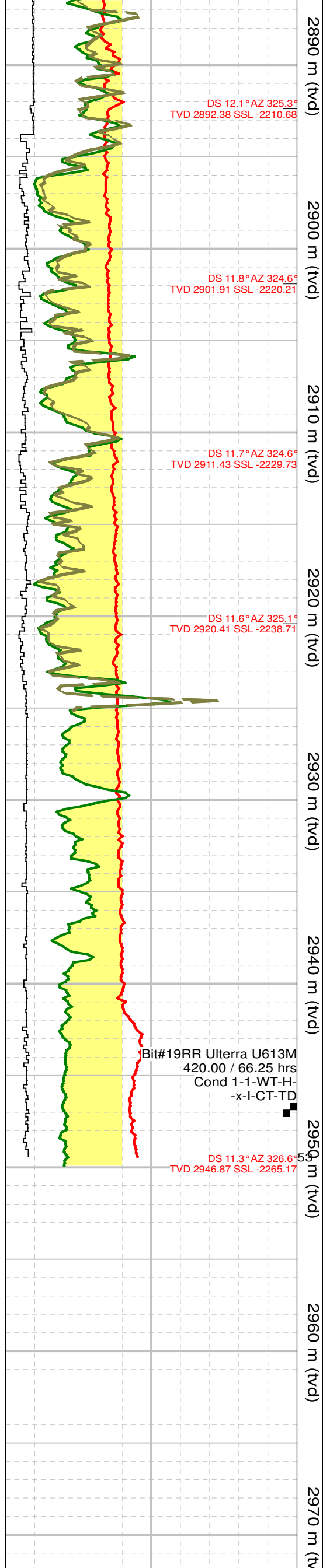
LS: off wh, mottled lt brn, chky texd, rexld, crpxl, as rexld Stachyoides, Amphipora rudstone - floatstone, ip as mdst, scat blk lined styls, **no vis por, earthy por?, v wk, p yel gn blomg cut flor.**

LS: off wh, mottled lt brn, chky texd, rexld, crpxl, as rexld Stachyoides, Amphipora rudstone - floatstone, ip as mdst, scat blk lined styls, **no vis por, earthy por?, v wk, p yel gn blomg cut flor.**

LS: off wh, lt brn mottled, chky texd, rexld, predly crpxl, as Stachyoides floatstone, rudstone., occ blk arg, sily bits lined styls, **tr blk org plugged dd bit, no vis por, v p, wk, yel gn blomg cut flor.**

LS: off wh, lt brn or lt yel brn mottled, chky texd, rexld, predly crpxl, scat Stachyoides, as rudst, floatstone, rr frags / blk org plugged por, occ arg or bits lined styls, no cut flor.

LS: off wh, lt brn mottled, chky texd, rexld, predly



LS: off wh, lt brn mottled, chky texd, rexd, predly crpxl, scat Stachyoides, as rudst, floatstone, rr frags / blk org plugged por, occ arg or bits lined styls, no cut flor, rr Amphipora.

LS: off wh, lt brn mottled, chky texd, rexd, crpxl, as Amphipora, Stachyoides floatstone, rudstone, scat blk arg & dd bit lined styls, no vis por, no cut flor, mnr dd bit plugged org por.

LS: off wh, comly lt brn mottled, predly rexd & / chak tex, frags comly fri, crpxl, as Amphipora, Stachyoides rudst, flst, / dism blk org bit plugged por, no cut flor, occ blk styls.

LS: off wh, lt brn mottled, chky texd, rexd, predly predly crpxl, 15% m brn, lt gy, no rexd, / abnt Amphipora, Stachyoides, ip as mdst, no vis por, occ bit filled org por, no cut flor.

LS: predly off wh, lt brn mottled, chky texd, rexd, comly sft & fri & / q eathy por, 15% m brn, dk brn & non rexd, as pelodal, mdst - wkest, Amphipora & Stachyoides (Idiostroma) rudstone - floatstone, spotty blk arg styls + orgnaic lined blk dd bit, rr druse, predly / no vis por, no cut flor.

LS: predly off wh, mottled yel brn, lt brn, chky texd, rexd, crpxl, comly fri, predly as Stachyoides, Amphipora floatstone, 15-20% as m brn, non rexd mdt / floating calciferes, osts & rr Amphipora,, tr peloidal grst, no vis por, no cut flor.

LS: predly off wh, lt brn mottled, chky texd, rexd, crpxl, comly fri, as mdst, Stachyoides, Amphipora floatstone, 20% of frags m brn, no rexd, / frags of Stachyoides, Amphippoera, calcispheres, ip as mdst, no vis por, no cut flor, 3% calcs, blk mrst.

LS: less rexd than above, 20% lt gy, comly arg, mrlly, crpxl, dns & tt, tr lt gn calcs sh, 40% lt yel brn, m brn, as mdst, Amphipora rudstone & floatstone, as ost wkest, dns & tt, 50% of frags chky texd, rexd, off wh, mottled lt brn, predly fri, as mdst, rr stachyoides, tt, no shows.

LS: 25% of frags lt gy, v lt gy brn, crpxl, comly arg, mrlly, dns & tt, 40% of frags m brn, crpxl, non rexd, as mdst, Amphipora floatstone, calcisphere wkest, 25% of frags chky, rexd, fri, chky texd, tr dk gy sily arg tt frags, no cut flor.

LS: 10-15% of frags lt gy, v lt gy brn, crpxl, comly arg, mrlly, dns & tt, 50% of frags m brn, crpxl, non rexd, as mdst, Amphipora floatstone, calcisphere wkest, mdst, 25% of frags chky, rexd, fri, chky texd, tr dk gy sily arg tt frags, no cut flor, 10% blk, dk gy, calcs, sh & mrlst.

LS: off wh, m brn, as mdst, wkest, rr Amphipora floatstone, rexd & chky texd ip, scat calc druse, 1-6% intpar, vug & mic vug por, no cut flor, rr lt gy arg ls frags, rr mic fracs, no cut flor.

NB: Logger's depth 3m deeper than Driller's depth. Data acquired while drilling has been shifted down to correlate with open hole logging data f/ 2855 to 3350mMD

Total Depth (TVD: 2949.81) (SSL: -2268.11)

118 u

